Element Materials Technology
(Formerly PCTEST)
18855 Adams Ct, Morgan Hill, CA 95037 USA
Tel. +1.408.538.5600
http://www.element.com

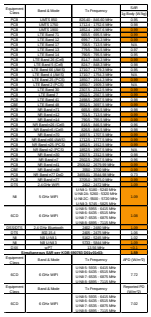
SAR EVALUATION REPORT

Applicant Name:
Apple Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:
12/09/2023 – 03/02/2024
Test Report Issue Date:
04/08/2024
Test Site/Location:
Element, Morgan Hill, CA, USA
Document Serial No.:
1C2311270066-02.BCG (Rev 2)

FCC ID:	**BCGA2899**
APPLICANT:	**APPLE, INC.**

DUT Type:	Tablet Device
Application Type:	Certification
FCC Rule Part(s):	CFR §2.1093
Models:	A2899, A2900



Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.8 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.

RJ Ortanez
Executive Vice President

Prepared by: WKR:#0000000981

Reviewed by: WKR:#0000005810

ACCREDITED
CERT #2041.02

The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfai.info.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

TABLE OF CONTENTS

1 DEVICE UNDER TEST 3

2 LTE AND NR INFORMATION 53

3 INTRODUCTION 55

4 DOSIMETRIC ASSESSMENT 56

5 TEST CONFIGURATION POSITIONS 57

6 RF EXPOSURE LIMITS 58

7 FCC MEASUREMENT PROCEDURES 60

8 RF CONDUCTED POWERS 65

9 SYSTEM VERIFICATION 194

10 SAR DATA SUMMARY 203

11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS 248

12 SAR MEASUREMENT VARIABILITY 302

13 ADDITIONAL TESTING PER FCC GUIDANCE 303

14 EQUIPMENT LIST 311

15 MEASUREMENT UNCERTAINTIES 312

16 CONCLUSION 315

17 REFERENCES 316

APPENDIX A: SAR TEST PLOTS
APPENDIX B: SAR DIPOLE VERIFICATION PLOTS
APPENDIX C: PROBE AND DIPOLE CALIBRATION CERTIFICATES
APPENDIX D: SAR TISSUE SPECIFICATIONS
APPENDIX E: LTE AND NR LOWER BANDWIDTH RF CONDUCTED POWERS
APPENDIX F: SAR SYSTEM VALIDATION
APPENDIX G: LTE DOWNLINK CA RF CONDUCTED POWERS
APPENDIX H: 802.11AX RU SAR EXCLUSION
APPENDIX I: DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS
APPENDIX J: WLAN TIME-AVERAGED SAR VERIFICATION

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.4 - 846.6 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n14	Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n70	Data	1697.5 - 1707.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n48	Data	3555.0 - 3694.98 MHz
NR Band n77 DoD	Data	3455.01 - 3544.98 MHz
NR Band n77 C	Data	3705.0 - 3975.0 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5955 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB UNII-1	Data	5162 - 5245 MHz
NB UNII-3	Data	5733 - 5844 MHz
WPT	N/A	13.56 MHz

1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with the Qualcomm® Smart Transmit Gen2 feature. This feature performs a time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 1.10 – Bibliography).

Note that WLAN operations are not enabled with Smart Transmit.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR design_target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN could be found in Section 1.10 - Bibliography).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max}, when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit}. Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the smart tx uncertainty for sub-6GHz WWAN is +1.0 /-1.0 dB for this EUT.

*Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power +0.7/-1.0 dB conducted power tolerance and for UHB +/- 1.0 dB conducted power tolerance.

Exposure Scenario:	Ant 1a	Ant 1a Maximum Tune up Output Power*	Ant 1b	Ant 1b Maximum Tune up Output Power*	Ant 2	Ant 2 Maximum Tune up Output Power*	Ant 3a	Ant 3a Maximum Tune up Output Power*	Ant 3b	Ant 3b Maximum Tune up Output Power*	Ant 4	Ant 4 Maximum Tune up Output Power*
Averaging Volume:	1g		1g		1g		1g		1g		1g	
Spacing:	0 mm		0 mm		0 mm		0 mm		0 mm		0 mm	
DSI:	1		1		1		1		1		1	
Technology/Band	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax
UMTS 850	N/A	N/A	N/A	N/A	18.80	24.00	N/A	N/A	N/A	N/A	19.00	25.00
UMTS 1750	N/A	N/A	12.00	22.00	14.50	23.00	N/A	N/A	12.50	24.00	14.60	25.00
UMTS 1900	N/A	N/A	10.90	22.00	14.60	23.00	N/A	N/A	12.00	24.00	13.70	25.00
LTE Band 71	N/A	N/A	N/A	N/A	20.20	24.00	N/A	N/A	N/A	N/A	20.00	25.00
LTE Band 12	N/A	N/A	N/A	N/A	19.30	24.00	N/A	N/A	N/A	N/A	19.10	25.00
LTE Band 17	N/A	N/A	N/A	N/A	19.30	24.00	N/A	N/A	N/A	N/A	19.10	25.00
LTE Band 13	N/A	N/A	N/A	N/A	19.20	24.00	N/A	N/A	N/A	N/A	20.80	25.00
LTE Band 14	N/A	N/A	N/A	N/A	19.20	24.00	N/A	N/A	N/A	N/A	20.80	25.00
LTE Band 26	N/A	N/A	N/A	N/A	18.80	24.00	N/A	N/A	N/A	N/A	19.00	25.00
LTE Band 5	N/A	N/A	N/A	N/A	18.80	24.00	N/A	N/A	N/A	N/A	19.00	25.00
LTE Band 5 ULCA	N/A	N/A	N/A	N/A	18.80	24.00	N/A	N/A	N/A	N/A	19.00	25.00
LTE Band 4	N/A	N/A	12.00	25.00	14.50	24.50	N/A	N/A	12.50	24.50	14.60	25.00
LTE Band 66	N/A	N/A	12.00	25.00	14.50	24.80	N/A	N/A	12.50	24.80	14.60	25.00
LTE Band 2	N/A	N/A	10.90	22.00	14.60	23.00	N/A	N/A	12.00	24.00	13.70	25.00
LTE Band 25	N/A	N/A	10.90	22.00	14.60	23.00	N/A	N/A	12.00	24.00	13.70	25.00
LTE Band 30	N/A	N/A	12.30	21.50	13.00	20.05	N/A	N/A	12.10	21.80	14.50	25.00
LTE Band 7	N/A	N/A	11.40	21.50	11.30	22.00	N/A	N/A	11.10	24.00	10.80	25.00
LTE Band 7 ULCA	N/A	N/A	11.40	21.50	11.30	22.00	N/A	N/A	11.10	24.00	10.80	25.00
LTE Band 41 (PC3)	N/A	N/A	11.5	23.0	11.9	23.0	N/A	N/A	12.0	23.0	10.6	23.0
LTE Band 41 (PC3) ULCA	N/A	N/A	11.5	23.0	11.9	23.0	N/A	N/A	12.0	23.0	10.6	23.0
LTE Band 41 (PC2)	N/A	N/A	11.5	23.4	11.9	22.4	N/A	N/A	12.0	23.9	10.6	24.4
LTE Band 41 (PC2) ULCA	N/A	N/A	11.5	23.4	11.9	22.4	N/A	N/A	12.0	23.9	10.6	24.4
LTE Band 48	9.7	18.4	N/A	N/A	9.9	15.7	9.7	16.6	N/A	N/A	9.9	16.9
LTE Band 48 ULCA	9.7	18.4	N/A	N/A	9.9	15.7	9.7	16.6	N/A	N/A	9.9	16.9
NR Band n71	N/A	N/A	N/A	N/A	20.20	24.00	N/A	N/A	N/A	N/A	20.00	25.00
NR Band n12	N/A	N/A	N/A	N/A	19.30	24.00	N/A	N/A	N/A	N/A	19.10	25.00
NR Band n14	N/A	N/A	N/A	N/A	19.20	24.00	N/A	N/A	N/A	N/A	20.80	25.00
NR Band n26	N/A	N/A	N/A	N/A	18.80	24.00	N/A	N/A	N/A	N/A	19.00	25.00
NR Band n5	N/A	N/A	N/A	N/A	18.80	24.00	N/A	N/A	N/A	N/A	19.00	25.00
NR Band n70	N/A	N/A	12.00	25.00	14.50	24.50	N/A	N/A	12.50	24.50	14.60	25.00
NR Band n66	N/A	N/A	12.00	25.00	14.50	24.80	N/A	N/A	12.50	24.80	14.60	25.00
NR Band n2	N/A	N/A	10.90	22.00	14.60	23.00	N/A	N/A	12.00	24.00	13.70	25.00
NR Band n25	N/A	N/A	10.90	22.00	14.60	23.00	N/A	N/A	12.00	24.00	13.70	25.00
NR Band n30	N/A	N/A	12.30	21.50	13.00	20.75	N/A	N/A	12.10	21.80	14.50	25.00
NR Band n7	N/A	N/A	11.40	21.50	11.30	22.00	N/A	N/A	11.10	24.00	10.80	25.00
NR Band n41 (PC3)	N/A	N/A	12.00	25.00	12.00	25.00	N/A	N/A	11.80	25.00	10.50	25.00
NR Band n41 (PC2)	N/A	N/A	12.00	28.00	12.00	27.50	N/A	N/A	11.80	26.00	10.50	27.00
NR Band n77 (PC3)	9.20	22.30	N/A	N/A	8.30	22.30	8.40	24.70	N/A	N/A	9.60	24.70
NR Band n77 (PC2)	9.20	22.50	N/A	N/A	8.30	22.50	8.40	26.50	N/A	N/A	9.60	26.00
NR Band n48	9.70	20.40	N/A	N/A	9.90	17.70	10.00	18.60	N/A	N/A	10.00	18.90

*Note all P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., LTE TDD).

The maximum time-averaged output power (dBm) for any Sub6 WWAN technology, band, and DSI = minimum of "P_{limit} EFS" and "Maximum tune up output power P_{max}" +1.0/-1.0 dB smart tx uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting Reserve_power_margin (Smart Transmit EFS entry) to 0 dB.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

1.3 Power Reduction for SAR

This device additionally utilizes a power reduction mechanism for Bluetooth/802.15.4/NB UNII and WLAN operations. When WLAN/Bluetooth/802.15.4/NB UNII is operating simultaneously with certain combinations of 3G/4G and 5/6 GHz WLAN antennas, the output power of is permanently reduced. SAR evaluations were additionally performed at the maximum allowed output power for these scenarios to evaluate simultaneous transmission compliance.

Additionally, this device uses an independent mechanism that limits WIFI powers to a time-averaged output power. For the purposes of this test report, all SAR measurements were performed with the algorithm disabled at the maximum time-averaged output power level. Verification data for this time-averaged SAR mechanism can be found in the WLAN Time-Averaged SAR Verification Appendix.

1.4 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D04v01.

1.4.1 WWAN Output Power

Table 1-1
UMTS B5 (850 MHz)

Mode/Band			Modulated Average Output Power (in dBm)	
			Ant 4	Ant 2
UMTS Band 5 (850 MHz)	Max allowed power	3GPP WCDMA Rel 99	**20.00**	**19.80**
	Nominal		**19.00**	**18.80**
	Max allowed power	3GPP HSDPA Rel 5	**20.00**	**19.80**
	Nominal		**19.00**	**18.80**
	Max allowed power	3GPP HSUPA Rel 6	**20.00**	**19.80**
	Nominal		**19.00**	**18.80**
	Max allowed power	3GPP DC-HSDPA Rel 8	**20.00**	**19.80**
	Nominal		**19.00**	**18.80**

Table 1-2
UMTS B4 (1750 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 4	Ant 2	Ant 3b	Ant 1b
UMTS Band 4 (1750 MHz)	Max allowed power	3GPP WCDMA Rel 99	**15.60**	**15.50**	**13.50**	**13.00**
	Nominal		**14.60**	**14.50**	**12.50**	**12.00**
	Max allowed power	3GPP HSDPA Rel 5	**15.60**	**15.50**	**13.50**	**13.00**
	Nominal		**14.60**	**14.50**	**12.50**	**12.00**
	Max allowed power	3GPP HSUPA Rel 6	**15.60**	**15.50**	**13.50**	**13.00**
	Nominal		**14.60**	**14.50**	**12.50**	**12.00**
	Max allowed power	3GPP DC-HSDPA Rel 8	**15.60**	**15.50**	**13.50**	**13.00**
	Nominal		**14.60**	**14.50**	**12.50**	**12.00**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 1-3
UMTS B2 (1900 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 4	Ant 2	Ant 3b	Ant 1b
UMTS Band 2 (1900 MHz)	Max allowed power	3GPP WCDMA Rel 99	**14.70**	**15.60**	**13.00**	**11.90**
	Nominal		**13.70**	**14.60**	**12.00**	**10.90**
	Max allowed power	3GPP HSDPA Rel 5	**14.70**	**15.60**	**13.00**	**11.90**
	Nominal		**13.70**	**14.60**	**12.00**	**10.90**
	Max allowed power	3GPP HSUPA Rel 6	**14.70**	**15.60**	**13.00**	**11.90**
	Nominal		**13.70**	**14.60**	**12.00**	**10.90**
	Max allowed power	3GPP DC-HSDPA Rel 8	**14.70**	**15.60**	**13.00**	**11.90**
	Nominal		**13.70**	**14.60**	**12.00**	**10.90**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 1-4
LTE Bands

Mode / Band		Modulated Average Output Power (in dBm)					
		Ant 4	Ant 2	Ant 3a	Ant 3b	Ant 1a	Ant 1b
LTE FDD Band 71	Max allowed power	21.00	21.20				
	Nominal	20.00	20.20				
LTE FDD Band 12	Max allowed power	20.10	20.30				
	Nominal	19.10	19.30				
LTE FDD Band 17	Max allowed power	20.10	20.30				
	Nominal	19.10	19.30				
LTE FDD Band 13	Max allowed power	21.80	20.20				
	Nominal	20.80	19.20				
LTE FDD Band 14	Max allowed power	21.80	20.20				
	Nominal	20.80	19.20				
LTE FDD Band 26	Max allowed power	20.00	19.80				
	Nominal	19.00	18.80				
LTE FDD Band 5	Max allowed power	20.00	19.80				
	Nominal	19.00	18.80				
LTE FDD Band 5 Intra-band ULCA	Max allowed power	20.00	19.80				
	Nominal	19.00	18.80				
LTE FDD Band 4	Max allowed power	15.60	15.50		13.50		13.00
	Nominal	14.60	14.50		12.50		12.00
LTE FDD Band 66	Max allowed power	15.60	15.50		13.50		13.00
	Nominal	14.60	14.50		12.50		12.00
LTE FDD Band 2	Max allowed power	14.70	15.60		13.00		11.90
	Nominal	13.70	14.60		12.00		10.90
LTE FDD Band 25	Max allowed power	14.70	15.60		13.00		11.90
	Nominal	13.70	14.60		12.00		10.90
LTE FDD Band 30	Max allowed power	15.50	14.00		13.10		13.30
	Nominal	14.50	13.00		12.10		12.30
LTE FDD Band 7	Max allowed power	11.80	12.30		12.10		12.40
	Nominal	10.80	11.30		11.10		11.40
LTE FDD Band 7 Intra-band ULCA	Max allowed power	11.80	12.30		12.10		12.40
	Nominal	10.80	11.30		11.10		11.40
LTE TDD Band 41 (PC3)	Max allowed power	13.60	14.90		15.00		14.50
	Nominal	12.60	13.90		14.00		13.50
LTE TDD Band 41 (PC3) Intra-band ULCA	Max allowed power	13.60	14.90		15.00		14.50
	Nominal	12.60	13.90		14.00		13.50
LTE TDD Band 41 (PC2)	Max allowed power	15.20	16.50		16.60		16.10
	Nominal	14.20	15.50		15.60		15.10
LTE TDD Band 41 (PC2) Intra-band ULCA	Max allowed power	15.20	16.50		16.60		16.10
	Nominal	14.20	15.50		15.60		15.10
LTE TDD Band 48	Max allowed power	12.90	12.90	12.70		12.70	
	Nominal	11.90	11.90	11.70		11.70	
LTE TDD Band 48 Intra-band ULCA	Max allowed power	12.90	12.90	12.70		12.70	
	Nominal	11.90	11.90	11.70		11.70	

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 1-5
NR Bands

Mode / Band		Modulated Average Output Power (in dBm)					
		Ant 4	Ant 2	Ant 3a	Ant 3b	Ant 1a	Ant 1b
NR FDD Band n71	Max allowed power	21.00	21.20				
	Nominal	20.00	20.20				
NR FDD Band n12	Max allowed power	20.10	20.30				
	Nominal	19.10	19.30				
NR FDD Band n14	Max allowed power	21.80	20.20				
	Nominal	20.80	19.20				
NR FDD Band n26	Max allowed power	20.00	19.80				
	Nominal	19.00	18.80				
NR FDD Band n5	Max allowed power	20.00	19.80				
	Nominal	19.00	18.80				
NR FDD Band n70	Max allowed power	15.60	15.50		13.50		13.00
	Nominal	14.60	14.50		12.50		12.00
NR FDD Band n66	Max allowed power	15.60	15.50		13.50		13.00
	Nominal	14.60	14.50		12.50		12.00
NR FDD Band n2	Max allowed power	14.70	15.60		13.00		11.90
	Nominal	13.70	14.60		12.00		10.90
NR FDD Band n25	Max allowed power	14.70	15.60		13.00		11.90
	Nominal	13.70	14.60		12.00		10.90
NR FDD Band n30	Max allowed power	15.50	14.00		13.10		13.30
	Nominal	14.50	13.00		12.10		12.30
NR FDD Band n7	Max allowed power	11.80	12.30		12.10		12.40
	Nominal	10.80	11.30		11.10		11.40
NR TDD Band n41 (PC3)[Burst Averaged]	Max allowed power	11.50	13.00		12.80		13.00
	Nominal	10.50	12.00		11.80		12.00
NR TDD Band n41 (PC2)[Burst Averaged]	Max allowed power	11.50	13.00		12.80		13.00
	Nominal	10.50	12.00		11.80		12.00
NR TDD Band n77 (PC3)[Burst Averaged]	Max allowed power	10.60	9.30	9.40		10.20	
	Nominal	9.60	8.30	8.40		9.20	
NR TDD Band n77 (PC2)[Burst Averaged]	Max allowed power	10.60	9.30	9.40		10.20	
	Nominal	9.60	8.30	8.40		9.20	
NR TDD Band n48[Burst Averaged]	Max allowed power	11.00	10.90	10.00		10.70	
	Nominal	10.00	9.90	9.00		9.70	

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.2 Maximum WLAN Time-Averaged Output Power

Note: Targets for 802.11ax RU operations can be found in 802.11ax RU SAR Exclusion Appendix.
*The tolerances specified in the tables in this report refers to conducted tolerances.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a Tolerance (+0/-3 dB)					
		SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	11.00	11.00	11.00	11.00	11.00	11.00
	2	11.00	11.00	11.00	11.00	11.00	11.00
	3	11.00	11.00	11.00	11.00	11.00	11.00
	4	11.00	11.00	11.00	11.00	11.00	11.00
	5	11.00	11.00	11.00	11.00	11.00	11.00
	6	11.00	11.00	11.00	11.00	11.00	11.00
	7	11.00	11.00	11.00	11.00	11.00	11.00
	8	11.00	11.00	11.00	11.00	11.00	11.00
	9	11.00	11.00	11.00	11.00	11.00	11.00
	10	11.00	11.00	11.00	11.00	11.00	11.00
	11	11.00	11.00	11.00	11.00	11.00	11.00
	12	11.00	11.00	11.00	11.00	11.00	11.00
	13	11.00	10.25	10.25	NS	10.00	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1a Tolerance (+0/-3 dB)					
		SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	11.75	11.75	11.75	11.75	11.75	11.75
	2	11.75	11.75	11.75	11.75	11.75	11.75
	3	11.75	11.75	11.75	11.75	11.75	11.75
	4	11.75	11.75	11.75	11.75	11.75	11.75
	5	11.75	11.75	11.75	11.75	11.75	11.75
	6	11.75	11.75	11.75	11.75	11.75	11.75
	7	11.75	11.75	11.75	11.75	11.75	11.75
	8	11.75	11.75	11.75	11.75	11.75	11.75
	9	11.75	11.75	11.75	11.75	11.75	11.75
	10	11.75	11.75	11.75	11.75	11.75	11.75
	11	11.75	11.75	11.75	11.75	11.75	11.75
	12	11.75	11.75	11.75	11.75	11.75	11.75
	13	11.75	10.25	10.25	NS	10.00	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 5T Tolerance (+0/-3 dB)						
		SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	16.75	16.75	16.75	16.75	16.50	16.75	16.50
	40	16.75	16.75	16.75	16.75	16.75	16.75	16.75
	44	16.75	16.75	16.75	16.75	16.75	16.75	16.75
	48	16.75	16.75	16.75	16.75	16.75	16.75	16.75
	52	16.75	16.75	16.75	16.75	16.75	16.75	16.75
	56	16.75	16.75	16.75	16.75	16.75	16.75	16.75
	60	16.75	16.75	16.75	16.75	16.75	16.75	16.75
	64	16.75	16.75	16.75	16.75	16.75	16.75	16.75
	100	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	104	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	108	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	112	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	116	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	120	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	124	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	128	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	132	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	136	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	140	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	144	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	149	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	153	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	157	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	161	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	165	15.25	15.25	15.25	15.25	15.25	15.25	15.25
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	16.25	15.50	15.50	15.00	15.50	15.00
	46		16.75	16.75	16.75	16.75	16.75	16.75
	54		16.75	16.75	16.75	16.75	16.75	16.75
	62		16.50	15.50	16.50	15.50	16.50	15.50
	102		15.50	15.50	15.50	15.50	15.50	15.50
	110		15.50	15.50	15.50	15.50	15.50	15.50
	118		15.50	15.50	15.50	15.50	15.50	15.50
	126		15.50	15.50	15.50	15.50	15.50	15.50
	134		15.50	15.50	15.50	15.50	15.50	15.50
	142		15.50	15.50	15.50	15.50	15.50	15.50
	151		15.25	15.25	15.25	15.25	15.25	15.25
	159		15.25	15.25	15.25	15.25	15.25	15.25
5 GHz WIFI 80 MHz Bandwidth	42		15.25	15.00	14.75	14.00	14.75	14.00
	58		15.50	15.50	15.50	15.00	15.50	15.00
	106		15.50	14.50	15.50	14.00	15.50	14.00
	122		15.50	15.50	15.50	15.50	15.50	15.50
	138		15.50	15.50	15.50	15.50	15.50	15.50
	155		15.25	15.25	15.25	15.25	15.25	15.25
5 GHz WIFI 160 MHz Bandwidth	50		13.25	13.25	12.75	12.75	12.75	12.75
	114		13.50	13.50	13.25	13.25	13.25	13.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3b Tolerance (+0/-3 dB)						
		SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	40	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	44	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	48	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	52	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	56	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	60	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	64	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	100	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	104	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	108	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	112	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	116	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	120	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	124	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	128	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	132	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	136	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	140	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	144	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	149	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	153	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	157	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	161	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	165	10.00	10.00	10.00	10.00	10.00	10.00	10.00
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	11.00	11.00	11.00	11.00	11.00	11.00
	46		11.00	11.00	11.00	11.00	11.00	11.00
	54		11.00	11.00	11.00	11.00	11.00	11.00
	62		11.00	11.00	11.00	11.00	11.00	11.00
	102		9.50	9.50	9.50	9.50	9.50	9.50
	110		9.50	9.50	9.50	9.50	9.50	9.50
	118		9.50	9.50	9.50	9.50	9.50	9.50
	126		9.50	9.50	9.50	9.50	9.50	9.50
	134		9.50	9.50	9.50	9.50	9.50	9.50
	142		9.50	9.50	9.50	9.50	9.50	9.50
	151		10.00	10.00	10.00	10.00	10.00	10.00
	159		10.00	10.00	10.00	10.00	10.00	10.00
5 GHz WIFI 80 MHz Bandwidth	42		11.00	11.00	11.00	11.00	11.00	11.00
	58		11.00	11.00	11.00	11.00	11.00	11.00
	106		9.50	9.50	9.50	9.50	9.50	9.50
	122		9.50	9.50	9.50	9.50	9.50	9.50
	138		9.50	9.50	9.50	9.50	9.50	9.50
	155		10.00	10.00	10.00	10.00	10.00	10.00
5 GHz WIFI 160 MHz Bandwidth	50		11.00	11.00	11.00	11.00	11.00	11.00
	114		9.50	9.50	9.50	9.50	9.50	9.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b Tolerance (+0/-3 dB)						
		SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	10.50	10.50	10.50	10.50	10.50	10.50	10.50
	40	10.50	10.50	10.50	10.50	10.50	10.50	10.50
	44	10.50	10.50	10.50	10.50	10.50	10.50	10.50
	48	10.50	10.50	10.50	10.50	10.50	10.50	10.50
	52	10.50	10.50	10.50	10.50	10.50	10.50	10.50
	56	10.50	10.50	10.50	10.50	10.50	10.50	10.50
	60	10.50	10.50	10.50	10.50	10.50	10.50	10.50
	64	10.50	10.50	10.50	10.50	10.50	10.50	10.50
	100	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	104	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	108	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	112	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	116	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	120	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	124	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	128	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	132	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	136	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	140	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	144	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	149	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	153	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	157	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	161	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	165	9.75	9.75	9.75	9.75	9.75	9.75	9.75
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	10.50	10.50	10.50	10.50	10.50	10.50
	46		10.50	10.50	10.50	10.50	10.50	10.50
	54		10.50	10.50	10.50	10.50	10.50	10.50
	62		10.50	10.50	10.50	10.50	10.50	10.50
	102		10.00	10.00	10.00	10.00	10.00	10.00
	110		10.00	10.00	10.00	10.00	10.00	10.00
	118		10.00	10.00	10.00	10.00	10.00	10.00
	126		10.00	10.00	10.00	10.00	10.00	10.00
	134		10.00	10.00	10.00	10.00	10.00	10.00
	142		10.00	10.00	10.00	10.00	10.00	10.00
	151		9.75	9.75	9.75	9.75	9.75	9.75
	159		9.75	9.75	9.75	9.75	9.75	9.75
5 GHz WIFI 80 MHz Bandwidth	42		10.50	10.50	10.50	10.50	10.50	10.50
	58		10.50	10.50	10.50	10.50	10.50	10.50
	106		10.00	10.00	10.00	10.00	10.00	10.00
	122		10.00	10.00	10.00	10.00	10.00	10.00
	138		10.00	10.00	10.00	10.00	10.00	10.00
	155		9.75	9.75	9.75	9.75	9.75	9.75
5 GHz WIFI 160 MHz Bandwidth	50		10.50	10.50	10.50	10.50	10.50	10.50
	114		10.00	10.00	10.00	10.00	10.00	10.00

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode (LP)	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 5T			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW)	2	NS	NS	NS	NS
	1	5.25	5.25	0.75	3.50
	5	5.25	5.25	0.75	3.50
	9-29	5.25	5.25	0.75	3.50
	33-61	5.50	5.50	1.00	4.00
	65-85	5.00	5.00	0.75	3.50
	89	5.00	5.00	0.75	3.50
	93	5.00	5.00	0.75	3.50
	97-113	4.75	4.75	0.25	3.00
	117-181	3.50	3.50	0.00	2.50
	185	3.25	3.25	-0.25	2.25
	189-225	3.25	3.25	-0.25	2.25
	229	3.25	3.25	-0.25	2.25
	233	3.25	3.25	-0.25	2.25
6 GHz WIFI (40MHz BW)	3		8.25	3.75	6.50
	11		8.25	3.75	6.50
	19-27		8.25	3.75	6.50
	35-59		8.50	4.00	7.00
	67-75		8.00	3.75	6.50
	83		8.00	3.75	6.50
	91		8.00	3.75	6.50
	99-107		7.75	3.25	6.00
	115		6.50	3.00	5.50
	123-179		6.50	3.00	5.50
	187		6.25	2.75	5.25
	195-219		6.25	2.75	5.25
	227		6.25	2.75	5.25
6 GHz WIFI (80MHz BW)	7		11.25	6.75	9.50
	23		11.25	6.75	9.50
	39-55		11.50	7.00	10.00
	71		11.00	6.75	9.50
	87		11.00	6.75	9.50
	103		10.75	6.25	9.00
	119		9.50	6.00	8.50
	135-167		9.50	6.00	8.50
	183		9.25	5.75	8.25
	199		9.25	5.75	8.25
	215		9.25	5.75	8.25
6 GHz WIFI (160MHz BW)	15		13.75	9.25	12.00
	47		14.00	9.50	12.50
	79		13.50	9.25	12.00
	111		12.00	8.50	11.00
	143		12.00	8.50	11.00
	175		11.75	8.25	10.75
	207		11.75	8.25	10.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode (SP)	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 5T			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW)	2	NS	NS	NS	NS
	1	15.00	15.00	15.00	15.00
	5	15.00	15.00	15.00	15.00
	9-29	15.00	15.00	15.00	15.00
	33-61	15.00	15.00	15.00	15.00
	65-85	14.00	14.00	14.00	14.00
	89	14.00	14.00	14.00	14.00
	93	14.00	14.00	14.00	14.00
	97-113	NS	NS	NS	NS
	117-181	13.25	13.25	13.25	13.25
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI (40MHz BW)	3	[redacted]	15.00	15.00	15.00
	11		15.00	15.00	15.00
	19-27		15.00	15.00	15.00
	35-59		15.00	15.00	15.00
	67-75		14.00	14.00	14.00
	83		14.00	14.00	14.00
	91		14.00	14.00	14.00
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		13.25	13.25	13.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI (80MHz BW)	7		15.00	15.00	15.00
	23		14.00	14.00	14.00
	39-55		15.00	15.00	15.00
	71		14.00	14.00	14.00
	87		14.00	14.00	14.00
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		13.25	13.25	13.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI (160MHz BW)	15		15.00	15.00	15.00
	47		15.00	15.00	15.00
	79		14.00	14.00	14.00
	111		NS	NS	NS
	143		13.25	13.25	13.25
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode (LP)	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW)	2	NA	NA	NA	NA
	1	5.25	5.25	0.75	3.50
	5	5.25	5.25	0.75	3.50
	9-29	5.25	5.25	0.75	3.50
	33-61	5.50	5.50	1.00	4.00
	65-85	5.00	5.00	0.75	3.50
	89	5.00	5.00	0.75	3.50
	93	5.00	5.00	0.75	3.50
	97-113	4.75	4.75	0.25	3.00
	117-181	3.50	3.50	0.00	2.50
	185	3.25	3.25	-0.25	2.25
	189-225	3.25	3.25	-0.25	2.25
	229	3.25	3.25	-0.25	2.25
	233	3.25	3.25	-0.25	2.25
6 GHz WIFI (40MHz BW)	3	[redacted]	8.25	3.75	6.50
	11		8.25	3.75	6.50
	19-27		8.25	3.75	6.50
	35-59		8.50	4.00	7.00
	67-75		8.00	3.75	6.50
	83		8.00	3.75	6.50
	91		8.00	3.75	6.50
	99-107		7.75	3.25	6.00
	115		6.50	3.00	5.50
	123-179		6.50	3.00	5.50
	187		6.25	2.75	5.25
	195-219		6.25	2.75	5.25
	227		6.25	2.75	5.25
6 GHz WIFI (80MHz BW)	7		10.75	6.75	9.50
	23		11.25	6.75	9.50
	39-55		10.75	7.00	10.00
	71		11.00	6.75	9.50
	87		11.00	6.75	9.50
	103		10.75	6.25	9.00
	119		9.50	6.00	8.50
	135-167		9.50	6.00	8.50
	183		9.25	5.75	8.25
	199		9.25	5.75	8.25
	215		9.25	5.75	8.25
6 GHz WIFI (160MHz BW)	15		10.75	9.25	10.75
	47		10.75	9.50	10.75
	79		12.25	9.25	12.00
	111		11.75	8.50	11.00
	143		12.00	8.50	11.00
	175		11.75	8.25	10.75
	207		11.75	8.25	10.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode (SP)	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW)	2	NS	NS	NS	NS
	1	10.75	10.75	10.75	10.75
	5	10.75	10.75	10.75	10.75
	9-29	10.75	10.75	10.75	10.75
	33-61	10.75	10.75	10.75	10.75
	65-85	12.25	12.25	12.25	12.25
	89	12.25	12.25	12.25	12.25
	93	12.25	12.25	12.25	12.25
	97-113	NS	NS	NS	NS
	117-181	11.75	11.75	11.75	11.75
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI (40MHz BW)	3	[redacted]	10.75	10.75	10.75
	11		10.75	10.75	10.75
	19-27		10.75	10.75	10.75
	35-59		10.75	10.75	10.75
	67-75		12.25	12.25	12.25
	83		12.25	12.25	12.25
	91		12.25	12.25	12.25
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		12.25	12.25	12.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI (80MHz BW)	7		10.75	10.75	10.75
	23		12.25	12.25	12.25
	39-55		10.75	10.75	10.75
	71		12.25	12.25	12.25
	87		12.25	12.25	12.25
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		12.25	12.25	12.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI (160MHz BW)	15		10.75	10.75	10.75
	47		10.75	10.75	10.75
	79		12.25	12.25	12.25
	111		NS	NS	NS
	143		12.25	12.25	12.25
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode (LP)	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW	2	NS	NS	NS	NS
	1	3.50	3.50	-1.00	1.75
	5	3.50	3.50	-1.00	1.75
	9-29	3.50	3.50	-1.00	1.75
	33-61	3.75	3.75	-0.75	2.25
	65-85	3.25	3.25	-1.00	1.75
	89	3.25	3.25	-1.00	1.75
	93	3.25	3.25	-1.00	1.75
	97-113	3.00	3.00	-1.50	1.25
	117-181	1.75	1.75	-1.75	0.75
	185	1.50	1.50	-2.00	0.50
	189-225	1.50	1.50	-2.00	0.50
	229	1.50	1.50	-2.00	0.50
	233	1.50	1.50	-2.00	0.50
6 GHz WIFI (40MHz BW	3		6.50	2.00	4.75
	11		6.50	2.00	4.75
	19-27		6.50	2.00	4.75
	35-59		6.75	2.25	5.25
	67-75		6.25	2.00	4.75
	83		6.25	2.00	4.75
	91		6.25	2.00	4.75
	99-107		6.00	1.50	4.25
	115		4.75	1.25	3.75
	123-179		4.75	1.25	3.75
	187		4.50	1.00	3.50
	195-219		4.50	1.00	3.50
	227		4.50	1.00	3.50
6 GHz WIFI (80MHz BW	7		9.50	5.00	7.75
	23		9.50	5.00	7.75
	39-55		9.50	5.25	8.25
	71		9.25	5.00	7.75
	87		9.25	5.00	7.75
	103		9.00	4.50	7.25
	119		7.75	4.25	6.75
	135-167		7.75	4.25	6.75
	183		7.50	4.00	6.50
	199		7.50	4.00	6.50
	215		7.50	4.00	6.50
6 GHz WIFI (160MHz BW	15		9.50	7.50	9.50
	47		9.50	7.75	9.50
	79		9.75	7.50	9.75
	111		10.00	6.75	9.25
	143		10.00	6.75	9.25
	175		10.00	6.50	9.00
	207		10.00	6.50	9.00

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode (SP)	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW)	2	NS	NS	NS	NS
	1	9.50	9.50	9.50	9.50
	5	9.50	9.50	9.50	9.50
	9-29	9.50	9.50	9.50	9.50
	33-61	9.50	9.50	9.50	9.50
	65-85	9.75	9.75	9.75	9.75
	89	9.75	9.75	9.75	9.75
	93	9.75	9.75	9.75	9.75
	97-113	NS	NS	NS	NS
	117-181	10.00	10.00	10.00	10.00
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI (40MHz BW)	3	[redacted]	9.50	9.50	9.50
	11		9.50	9.50	9.50
	19-27		9.50	9.50	9.50
	35-59		9.50	9.50	9.50
	67-75		9.75	9.75	9.75
	83		9.75	9.75	9.75
	91		9.75	9.75	9.75
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		10.00	10.00	10.00
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI (80MHz BW)	7		9.50	9.50	9.50
	23		9.75	9.75	9.75
	39-55		9.50	9.50	9.50
	71		9.75	9.75	9.75
	87		9.75	9.75	9.75
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		10.00	10.00	10.00
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI (160MHz BW)	15		9.50	9.50	9.50
	47		9.50	9.50	9.50
	79		9.75	9.75	9.75
	111		NS	NS	NS
	143		10.00	10.00	10.00
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.3 Reduced WLAN Time-Averaged Output Power

Note: Targets for 802.11ax RU operations can be found in 802.11ax RU SAR Exclusion Appendix.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 3a Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	5.00	5.00	5.00	5.00	5.00	5.00
	2	5.00	5.00	5.00	5.00	5.00	5.00
	3	5.00	5.00	5.00	5.00	5.00	5.00
	4	5.00	5.00	5.00	5.00	5.00	5.00
	5	5.00	5.00	5.00	5.00	5.00	5.00
	6	5.00	5.00	5.00	5.00	5.00	5.00
	7	5.00	5.00	5.00	5.00	5.00	5.00
	8	5.00	5.00	5.00	5.00	5.00	5.00
	9	5.00	5.00	5.00	5.00	5.00	5.00
	10	5.00	5.00	5.00	5.00	5.00	5.00
	11	5.00	5.00	5.00	5.00	5.00	5.00
	12	5.00	5.00	5.00	5.00	5.00	5.00
	13	5.00	5.00	5.00	NS	5.00	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b active and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 1a Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	5.75	5.75	5.75	5.75	5.75	5.75
	2	5.75	5.75	5.75	5.75	5.75	5.75
	3	5.75	5.75	5.75	5.75	5.75	5.75
	4	5.75	5.75	5.75	5.75	5.75	5.75
	5	5.75	5.75	5.75	5.75	5.75	5.75
	6	5.75	5.75	5.75	5.75	5.75	5.75
	7	5.75	5.75	5.75	5.75	5.75	5.75
	8	5.75	5.75	5.75	5.75	5.75	5.75
	9	5.75	5.75	5.75	5.75	5.75	5.75
	10	5.75	5.75	5.75	5.75	5.75	5.75
	11	5.75	5.75	5.75	5.75	5.75	5.75
	12	5.75	5.75	5.75	5.75	5.75	5.75
	13	5.75	5.75	5.75	NS	5.75	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b active and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 5T Tolerance (+0/-3 dB)						
		SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	10.75	10.75	10.75	10.75	10.75	10.75	10.75
	40	10.75	10.75	10.75	10.75	10.75	10.75	10.75
	44	10.75	10.75	10.75	10.75	10.75	10.75	10.75
	48	10.75	10.75	10.75	10.75	10.75	10.75	10.75
	52	10.75	10.75	10.75	10.75	10.75	10.75	10.75
	56	10.75	10.75	10.75	10.75	10.75	10.75	10.75
	60	10.75	10.75	10.75	10.75	10.75	10.75	10.75
	64	10.75	10.75	10.75	10.75	10.75	10.75	10.75
	100	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	104	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	108	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	112	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	116	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	120	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	124	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	128	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	132	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	136	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	140	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	144	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	149	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	153	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	157	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	161	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	165	9.25	9.25	9.25	9.25	9.25	9.25	9.25
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	10.75	10.75	10.75	10.75	10.75	10.75
	46		10.75	10.75	10.75	10.75	10.75	10.75
	54		10.75	10.75	10.75	10.75	10.75	10.75
	62		10.75	10.75	10.75	10.75	10.75	10.75
	102		9.50	9.50	9.50	9.50	9.50	9.50
	110		9.50	9.50	9.50	9.50	9.50	9.50
	118		9.50	9.50	9.50	9.50	9.50	9.50
	126		9.50	9.50	9.50	9.50	9.50	9.50
	134		9.50	9.50	9.50	9.50	9.50	9.50
	142		9.50	9.50	9.50	9.50	9.50	9.50
	151		9.25	9.25	9.25	9.25	9.25	9.25
	159		9.25	9.25	9.25	9.25	9.25	9.25
5 GHz WIFI 80 MHz Bandwidth	42		10.75	10.75	10.75	10.75	10.75	10.75
	58		10.75	10.75	10.75	10.75	10.75	10.75
	106		9.50	9.50	9.50	9.50	9.50	9.50
	122		9.50	9.50	9.50	9.50	9.50	9.50
	138		9.50	9.50	9.50	9.50	9.50	9.50
	155		9.25	9.25	9.25	9.25	9.25	9.25
5 GHz WIFI 160 MHz Bandwidth	50		10.75	10.75	10.75	10.75	10.75	10.75
	114		9.50	9.50	9.50	9.50	9.50	9.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b active and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 3b Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	40	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	44	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	48	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	52	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	56	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	60	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	64	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	100	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	104	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	108	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	112	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	116	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	120	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	124	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	128	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	132	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	136	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	140	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	144	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	149	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	153	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	157	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	161	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	165	4.00	4.00	4.00	4.00	4.00	4.00	4.00
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	5.00	5.00	5.00	5.00	5.00	5.00
	46		5.00	5.00	5.00	5.00	5.00	5.00
	54		5.00	5.00	5.00	5.00	5.00	5.00
	62		5.00	5.00	5.00	5.00	5.00	5.00
	102		3.50	3.50	3.50	3.50	3.50	3.50
	110		3.50	3.50	3.50	3.50	3.50	3.50
	118		3.50	3.50	3.50	3.50	3.50	3.50
	126		3.50	3.50	3.50	3.50	3.50	3.50
	134		3.50	3.50	3.50	3.50	3.50	3.50
	142		3.50	3.50	3.50	3.50	3.50	3.50
	151		4.00	4.00	4.00	4.00	4.00	4.00
	159		4.00	4.00	4.00	4.00	4.00	4.00
5 GHz WIFI 80 MHz Bandwidth	42		5.00	5.00	5.00	5.00	5.00	5.00
	58		5.00	5.00	5.00	5.00	5.00	5.00
	106		3.50	3.50	3.50	3.50	3.50	3.50
	122		3.50	3.50	3.50	3.50	3.50	3.50
	138		3.50	3.50	3.50	3.50	3.50	3.50
	155		4.00	4.00	4.00	4.00	4.00	4.00
5 GHz WIFI 160 MHz Bandwidth	50		5.00	5.00	5.00	5.00	5.00	5.00
	114		3.50	3.50	3.50	3.50	3.50	3.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b active and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 1b Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	40	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	44	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	48	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	52	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	56	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	60	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	64	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	100	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	104	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	108	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	112	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	116	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	120	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	124	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	128	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	132	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	136	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	140	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	144	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	149	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	153	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	157	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	161	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	165	3.75	3.75	3.75	3.75	3.75	3.75	3.75
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	4.50	4.50	4.50	4.50	4.50	4.50
	46		4.50	4.50	4.50	4.50	4.50	4.50
	54		4.50	4.50	4.50	4.50	4.50	4.50
	62		4.50	4.50	4.50	4.50	4.50	4.50
	102		4.00	4.00	4.00	4.00	4.00	4.00
	110		4.00	4.00	4.00	4.00	4.00	4.00
	118		4.00	4.00	4.00	4.00	4.00	4.00
	126		4.00	4.00	4.00	4.00	4.00	4.00
	134		4.00	4.00	4.00	4.00	4.00	4.00
	142		4.00	4.00	4.00	4.00	4.00	4.00
	151		3.75	3.75	3.75	3.75	3.75	3.75
	159		3.75	3.75	3.75	3.75	3.75	3.75
5 GHz WIFI 80 MHz Bandwidth	42		4.50	4.50	4.50	4.50	4.50	4.50
	58		4.50	4.50	4.50	4.50	4.50	4.50
	106		4.00	4.00	4.00	4.00	4.00	4.00
	122		4.00	4.00	4.00	4.00	4.00	4.00
	138		4.00	4.00	4.00	4.00	4.00	4.00
	155		3.75	3.75	3.75	3.75	3.75	3.75
5 GHz WIFI 160 MHz Bandwidth	50		4.50	4.50	4.50	4.50	4.50	4.50
	114		4.00	4.00	4.00	4.00	4.00	4.00

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b active and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 5T			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP (20MHz BW)	2	NS	NS	NS	NS
	1	5.25	5.25	0.75	3.50
	5	5.25	5.25	0.75	3.50
	9-29	5.25	5.25	0.75	3.50
	33-61	5.50	5.50	1.00	4.00
	65-85	5.00	5.00	0.75	3.50
	89	5.00	5.00	0.75	3.50
	93	5.00	5.00	0.75	3.50
	97-113	4.75	4.75	0.25	3.00
	117-181	3.50	3.50	0.00	2.50
	185	3.25	3.25	-0.25	2.25
	189-225	3.25	3.25	-0.25	2.25
	229	3.25	3.25	-0.25	2.25
	233	3.25	3.25	-0.25	2.25
6 GHz WIFI LP (40MHz BW)	3	[redacted]	8.25	3.75	6.50
	11		8.25	3.75	6.50
	19-27		8.25	3.75	6.50
	35-59		8.50	4.00	7.00
	67-75		8.00	3.75	6.50
	83		8.00	3.75	6.50
	91		8.00	3.75	6.50
	99-107		7.50	3.25	6.00
	115		6.50	3.00	5.50
	123-179		6.50	3.00	5.50
	187		6.25	2.75	5.25
	195-219		6.25	2.75	5.25
	227		6.25	2.75	5.25
6 GHz WIFI LP (80MHz BW)	7		9.00	6.75	9.00
	23		8.00	6.75	8.00
	39-55		9.00	7.00	9.00
	71		8.00	6.75	8.00
	87		8.00	6.75	8.00
	103		7.50	6.25	7.50
	119		7.50	6.00	7.50
	135-167		7.25	6.00	7.25
	183		7.25	5.75	7.25
	199		6.75	5.75	6.75
	215		6.75	5.75	6.75
6 GHz WIFI LP (160MHz BW)	15		9.00	9.00	9.00
	47		9.00	9.00	9.00
	79		8.00	8.00	8.00
	111		7.50	7.50	7.50
	143		7.25	7.25	7.25
	175		6.75	6.75	6.75
	207		6.75	6.75	6.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b active and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 5T			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP (20MHz BW)	2	NS	NS	NS	NS
	1	9.00	9.00	9.00	9.00
	5	9.00	9.00	9.00	9.00
	9-29	9.00	9.00	9.00	9.00
	33-61	9.00	9.00	9.00	9.00
	65-85	8.00	8.00	8.00	8.00
	89	8.00	8.00	8.00	8.00
	93	8.00	8.00	8.00	8.00
	97-113	NS	NS	NS	NS
	117-181	7.25	7.25	7.25	7.25
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP (40MHz BW)	3	[redacted]	9.00	9.00	9.00
	11		9.00	9.00	9.00
	19-27		9.00	9.00	9.00
	35-59		9.00	9.00	9.00
	67-75		8.00	8.00	8.00
	83		8.00	8.00	8.00
	91		8.00	8.00	8.00
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		7.25	7.25	7.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP (80MHz BW)	7		9.00	9.00	9.00
	23		8.00	8.00	8.00
	39-55		9.00	9.00	9.00
	71		8.00	8.00	8.00
	87		8.00	8.00	8.00
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		7.25	7.25	7.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP (160MHz BW)	15		9.00	9.00	9.00
	47		9.00	9.00	9.00
	79		8.00	8.00	8.00
	111		NS	NS	NS
	143		7.25	7.25	7.25
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b active and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP (20MHz BW)	2	NS	NS	NS	NS
	1	4.75	4.75	0.75	3.50
	5	4.75	4.75	0.75	3.50
	9-29	4.75	4.75	0.75	3.50
	33-61	4.75	4.75	1.00	4.00
	65-85	5.00	5.00	0.75	3.50
	89	5.00	5.00	0.75	3.50
	93	5.00	5.00	0.75	3.50
	97-113	4.75	4.75	0.25	3.00
	117-181	3.50	3.50	0.00	2.50
	185	3.25	3.25	-0.25	2.25
	189-225	3.25	3.25	-0.25	2.25
	229	3.25	3.25	-0.25	2.25
	233	3.25	3.25	-0.25	2.25
6 GHz WIFI LP (40MHz BW)	3	[redacted]	4.75	3.75	4.75
	11		4.75	3.75	4.75
	19-27		4.75	3.75	4.75
	35-59		4.75	4.00	4.75
	67-75		6.25	3.75	6.25
	83		6.25	3.75	6.25
	91		6.25	3.75	6.25
	99-107		5.75	3.25	5.75
	115		5.75	3.00	5.50
	123-179		6.25	3.00	5.50
	187		6.25	2.75	5.25
	195-219		6.25	2.75	5.25
	227		6.25	2.75	5.25
6 GHz WIFI LP (80MHz BW)	7		4.75	4.75	4.75
	23		6.25	6.25	6.25
	39-55		4.75	4.75	4.75
	71		6.25	6.25	6.25
	87		6.25	6.25	6.25
	103		5.75	5.75	5.75
	119		5.75	5.75	5.75
	135-167		6.25	6.00	6.25
	183		6.25	5.75	6.25
	199		6.75	5.75	6.75
	215		6.75	5.75	6.75
6 GHz WIFI LP (160MHz BW)	15		4.75	4.75	4.75
	47		4.75	4.75	4.75
	79		6.25	6.25	6.25
	111		5.75	5.75	5.75
	143		6.25	6.25	6.25
	175		6.25	6.25	6.25
	207		6.75	6.75	6.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b active and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP (20MHz BW)	2	NS	NS	NS	NS
	1	4.75	4.75	4.75	4.75
	5	4.75	4.75	4.75	4.75
	9-29	4.75	4.75	4.75	4.75
	33-61	4.75	4.75	4.75	4.75
	65-85	6.25	6.25	6.25	6.25
	89	6.25	6.25	6.25	6.25
	93	6.25	6.25	6.25	6.25
	97-113	NS	NS	NS	NS
	117-181	5.75	5.75	5.75	5.75
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP (40MHz BW)	3	[redacted]	4.75	4.75	4.75
	11		4.75	4.75	4.75
	19-27		4.75	4.75	4.75
	35-59		4.75	4.75	4.75
	67-75		6.25	6.25	6.25
	83		6.25	6.25	6.25
	91		6.25	6.25	6.25
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		6.25	6.25	6.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP (80MHz BW)	7		4.75	4.75	4.75
	23		6.25	6.25	6.25
	39-55		4.75	4.75	4.75
	71		6.25	6.25	6.25
	87		6.25	6.25	6.25
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		6.25	6.25	6.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP (160MHz BW)	15		4.75	4.75	4.75
	47		4.75	4.75	4.75
	79		6.25	6.25	6.25
	111		NS	NS	NS
	143		6.25	6.25	6.25
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b active and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
	2	NS	NS	NS	NS
	1	3.50	3.50	-1.00	1.75
	5	3.50	3.50	-1.00	1.75
	9-29	3.50	3.50	-1.00	1.75
	33-61	3.50	3.50	-0.75	2.25
	65-85	3.25	3.25	-1.00	1.75
GHz WIFI LP	89	3.25	3.25	-1.00	1.75
20MHz BW)	93	3.25	3.25	-1.00	1.75
	97-113	3.00	3.00	-1.50	1.25
	117-181	1.75	1.75	-1.75	0.75
	185	1.50	1.50	-2.00	0.50
	189-225	1.50	1.50	-2.00	0.50
	229	1.50	1.50	-2.00	0.50
	233	1.50	1.50	-2.00	0.50
	3	[redacted]	3.50	2.00	3.50
	11		3.50	2.00	3.50
	19-27		3.50	2.00	3.50
	35-59		3.50	2.25	3.50
	67-75		3.75	2.00	3.75
	83		3.75	2.00	3.75
GHz WIFI LP	91		3.75	2.00	3.75
40MHz BW)	99-107		4.00	1.50	4.00
	115		4.00	1.25	3.75
	123-179		4.00	1.25	3.75
	187		4.00	1.00	3.50
	195-219		4.50	1.00	3.50
	227		4.50	1.00	3.50
	7		3.50	3.50	3.50
	23		3.75	3.75	3.75
	39-55		3.50	3.50	3.50
	71		3.75	3.75	3.75
	87		3.75	3.75	3.75
GHz WIFI LP	103		4.00	4.00	4.00
80MHz BW)	119		4.00	4.00	4.00
	135-167		4.00	4.00	4.00
	183		4.00	4.00	4.00
	199		6.50	4.00	6.50
	215		6.50	4.00	6.50
	15		3.50	3.50	3.50
	47		3.50	3.50	3.50
GHz WIFI LP	79		3.75	3.75	3.75
160MHz BW)	111		4.00	4.00	4.00
	143		4.00	4.00	4.00
	175		4.00	4.00	4.00
	207		6.50	6.50	6.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b active and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP (20MHz BW)	2	NS	NS	NS	NS
	1	3.50	3.50	3.50	3.50
	5	3.50	3.50	3.50	3.50
	9-29	3.50	3.50	3.50	3.50
	33-61	3.50	3.50	3.50	3.50
	65-85	3.75	3.75	3.75	3.75
	89	3.75	3.75	3.75	3.75
	93	3.75	3.75	3.75	3.75
	97-113	NS	NS	NS	NS
	117-181	4.00	4.00	4.00	4.00
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP (40MHz BW)	3	[redacted]	3.50	3.50	3.50
	11		3.50	3.50	3.50
	19-27		3.50	3.50	3.50
	35-59		3.50	3.50	3.50
	67-75		3.75	3.75	3.75
	83		3.75	3.75	3.75
	91		3.75	3.75	3.75
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		4.00	4.00	4.00
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP (80MHz BW)	7		3.50	3.50	3.50
	23		3.75	3.75	3.75
	39-55		3.50	3.50	3.50
	71		3.75	3.75	3.75
	87		3.75	3.75	3.75
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		4.00	4.00	4.00
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP (160MHz BW)	15		3.50	3.50	3.50
	47		3.50	3.50	3.50
	79		3.75	3.75	3.75
	111		NS	NS	NS
	143		4.00	4.00	4.00
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.4 Bluetooth Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
Bluetooth BDR	Maximum	**12.50**	**11.00**
	Nominal	**11.00**	**9.50**
Bluetooth EDR	Maximum	**12.50**	**7.00**
	Nominal	**11.00**	**5.50**
Bluetooth LE	Maximum	**12.50**	**11.00**
	Nominal	**11.00**	**9.50**
Bluetooth HDR4	Maximum	**12.50**	**4.50**
	Nominal	**11.00**	**3.00**
Bluetooth HDR8	Maximum	**12.50**	**4.50**
	Nominal	**11.00**	**3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
Bluetooth BDR	Maximum	**12.50**	**11.00**
	Nominal	**11.00**	**9.50**
Bluetooth EDR	Maximum	**12.50**	**7.00**
	Nominal	**11.00**	**5.50**
Bluetooth LE	Maximum	**12.50**	**11.00**
	Nominal	**11.00**	**9.50**
Bluetooth HDR4	Maximum	**12.50**	**4.50**
	Nominal	**11.00**	**3.00**
Bluetooth HDR8	Maximum	**12.50**	**4.50**
	Nominal	**11.00**	**3.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
Bluetooth BDR	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth EDR	Maximum	**13.00**	**6.50**
	Nominal	**11.50**	**5.00**
Bluetooth LE	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth HDR4	Maximum	**13.00**	**4.00**
	Nominal	**11.50**	**2.50**
Bluetooth HDR8	Maximum	**13.00**	**4.00**
	Nominal	**11.50**	**2.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 1a	Modulated Average (iPA) TXBF (dBm) Antenna 1a
Bluetooth BDR	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth EDR	Maximum	**13.00**	**6.50**
	Nominal	**11.50**	**5.00**
Bluetooth LE	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth HDR4	Maximum	**13.00**	**4.00**
	Nominal	**11.50**	**2.50**
Bluetooth HDR8	Maximum	**13.00**	**4.00**
	Nominal	**11.50**	**2.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.5 Bluetooth Reduced Output Power

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b and WPT active
- Simultaneous conditions with Licensed Bands Antenna 1a/1b/2/4, 5/6 GHz WLAN Ant 3b and WPT active
- Simultaneous conditions with 5/6 GHz WLAN Ant 3b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
Bluetooth BDR Reduced	Maximum	**8.00**	**8.00**
	Nominal	**6.50**	**6.50**
Bluetooth EDR Reduced	Maximum	**8.00**	**7.00**
	Nominal	**6.50**	**5.50**
Bluetooth LE Reduced	Maximum	**8.00**	**8.00**
	Nominal	**6.50**	**6.50**
Bluetooth HDR4 Reduced	Maximum	**8.00**	**4.50**
	Nominal	**6.50**	**3.00**
Bluetooth HDR8 Reduced	Maximum	**8.00**	**4.50**
	Nominal	**6.50**	**3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
Bluetooth BDR Reduced	Maximum	**8.00**	**8.00**
	Nominal	**6.50**	**6.50**
Bluetooth EDR Reduced	Maximum	**8.00**	**7.00**
	Nominal	**6.50**	**5.50**
Bluetooth LE Reduced	Maximum	**8.00**	**8.00**
	Nominal	**6.50**	**6.50**
Bluetooth HDR4 Reduced	Maximum	**8.00**	**4.50**
	Nominal	**6.50**	**3.00**
Bluetooth HDR8 Reduced	Maximum	**8.00**	**4.50**
	Nominal	**6.50**	**3.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b, 5/6 GHz WLAN Ant 3b and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
Bluetooth BDR Reduced	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth EDR Reduced	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth LE Reduced	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth HDR4 Reduced	Maximum	**5.50**	**4.50**
	Nominal	**4.00**	**3.00**
Bluetooth HDR8 Reduced	Maximum	**5.50**	**4.50**
	Nominal	**4.00**	**3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
Bluetooth BDR Reduced	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth EDR Reduced	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth LE Reduced	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth HDR4 Reduced	Maximum	**5.50**	**4.50**
	Nominal	**4.00**	**3.00**
Bluetooth HDR8 Reduced	Maximum	**5.50**	**4.50**
	Nominal	**4.00**	**3.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b and WPT active
- Simultaneous conditions Antenna 2/3a/3b/4, 5/6 GHz WLAN Ant 1b and WPT active
- Simultaneous conditions with 5/6 GHz WLAN Ant 1b and WPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
Bluetooth BDR Reduced	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth EDR Reduced	Maximum	**8.50**	**6.50**
	Nominal	**7.00**	**5.00**
Bluetooth LE Reduced	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth HDR4 Reduced	Maximum	**8.50**	**4.00**
	Nominal	**7.00**	**2.50**
Bluetooth HDR8 Reduced	Maximum	**8.50**	**4.00**
	Nominal	**7.00**	**2.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 1a	Modulated Average (iPA) TXBF (dBm) Antenna 1a
Bluetooth BDR Reduced	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth EDR Reduced	Maximum	**8.50**	**6.50**
	Nominal	**7.00**	**5.00**
Bluetooth LE Reduced	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth HDR4 Reduced	Maximum	**8.50**	**4.00**
	Nominal	**7.00**	**2.50**
Bluetooth HDR8 Reduced	Maximum	**8.50**	**4.00**
	Nominal	**7.00**	**2.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b active, 5/6 GHz WLAN Ant 1b and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
Bluetooth BDR Reduced	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth EDR Reduced	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth LE Reduced	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth HDR4 Reduced	Maximum	**6.00**	**4.00**
	Nominal	**4.50**	**2.50**
Bluetooth HDR8 Reduced	Maximum	**6.00**	**4.00**
	Nominal	**4.50**	**2.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 1a	Modulated Average (iPA) TXBF (dBm) Antenna 1a
Bluetooth BDR	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth EDR	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth LE	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth HDR4	Maximum	**6.00**	**4.00**
	Nominal	**4.50**	**2.50**
Bluetooth HDR8	Maximum	**6.00**	**4.00**
	Nominal	**4.50**	**2.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.6 802.15.4 Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
802.15.4	Maximum	**12.50**	**11.00**
	Nominal	**11.00**	**9.50**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
802.15.4	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.7 802.15.4 Reduced Output Power

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b active and wPT active
- Simultaneous conditions with Licensed Bands Antenna 1a/1b/2/4, 5/6 GHz WLAN Ant 3b and wPT active
- Simultaneous conditions with 5/6 GHz WLAN Ant 3b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
802.15.4	Maximum	**8.00**	**8.00**
	Nominal	**6.50**	**6.50**

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b, 5/6 GHz WLAN Ant 3B and WPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
802.15.4	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b and WPT active
- Simultaneous conditions with Licensed Bands Antenna 2/3a/3b/4, 5/6 GHz WLAN Ant 1B and WPT active
- Simultaneous conditions with 5/6 GHz WLAN Ant 1b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
802.15.4	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b active, 5/6 GHz WLAN Ant 1B and WPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
802.15.4	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.8 NB UNII Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 5T	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 5T
NB UNII-1 BDR	Maximum	**10.00**	**5.00**
	Nominal	**8.50**	**3.50**
NB UNII-1 HDR4	Maximum	**12.50**	**-0.50**
	Nominal	**11.00**	**-2.00**
NB UNII-1 HDR8	Maximum	**12.50**	**-0.50**
	Nominal	**11.00**	**-2.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 5T	Modulated Average (iPA) TXBF (dBm) Antenna 5T
NB UNII-1 BDR	Maximum	**7.00**	**5.00**
	Nominal	**5.50**	**3.50**
NB UNII-1 HDR4	Maximum	**9.50**	**-0.50**
	Nominal	**8.00**	**-2.00**
NB UNII-1 HDR8	Maximum	**12.00**	**-0.50**
	Nominal	**10.50**	**-2.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3b
NB UNII-1 BDR	Maximum	**10.00**	**4.00**
	Nominal	**8.50**	**2.50**
NB UNII-1 HDR4	Maximum	**11.50**	**-2.00**
	Nominal	**10.00**	**-3.50**
NB UNII-1 HDR8	Maximum	**11.50**	**-2.00**
	Nominal	**10.00**	**-3.50**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3b	Modulated Average (iPA) TXBF (dBm) Antenna 3b
NB UNII-1 BDR	Maximum	**7.00**	**4.00**
	Nominal	**5.50**	**2.50**
NB UNII-1 HDR4	Maximum	**9.50**	**-2.00**
	Nominal	**8.00**	**-3.50**
NB UNII-1 HDR8	Maximum	**11.50**	**-2.00**
	Nominal	**10.00**	**-3.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-1 BDR	Maximum	**10.00**	**2.50**
	Nominal	**8.50**	**1.00**
NB UNII-1 HDR4	Maximum	**10.50**	**-3.50**
	Nominal	**9.00**	**-5.00**
NB UNII-1 HDR8	Maximum	**10.50**	**-3.50**
	Nominal	**9.00**	**-5.00**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 5T	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 5T
NB UNII-3 BDR	Maximum	**13.50**	**5.50**
	Nominal	**12.00**	**4.00**
NB UNII-3 HDR4	Maximum	**13.50**	**0.00**
	Nominal	**12.00**	**-1.50**
NB UNII-3 HDR8	Maximum	**13.50**	**0.00**
	Nominal	**12.00**	**-1.50**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 5T	Modulated Average (iPA) TXBF (dBm) Antenna 5T
NB UNII-3 BDR	Maximum	**13.50**	**5.50**
	Nominal	**12.00**	**4.00**
NB UNII-3 HDR4	Maximum	**13.50**	**0.00**
	Nominal	**12.00**	**-1.50**
NB UNII-3 HDR8	Maximum	**13.50**	**0.00**
	Nominal	**12.00**	**-1.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3b
NB UNII-3 BDR	Maximum	**11.50**	**4.50**
	Nominal	**10.00**	**3.00**
NB UNII-3 HDR4	Maximum	**11.50**	**-1.50**
	Nominal	**10.00**	**-3.00**
NB UNII-3 HDR8	Maximum	**11.50**	**-1.50**
	Nominal	**10.00**	**-3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3b	Modulated Average (iPA) TXBF (dBm) Antenna 3b
NB UNII-3 BDR	Maximum	**11.50**	**4.50**
	Nominal	**10.00**	**3.00**
NB UNII-3 HDR4	Maximum	**11.50**	**-1.50**
	Nominal	**10.00**	**-3.00**
NB UNII-3 HDR8	Maximum	**11.50**	**-1.50**
	Nominal	**10.00**	**-3.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-3 BDR	Maximum	**10.50**	**3.00**
	Nominal	**9.00**	**1.50**
NB UNII-3 HDR4	Maximum	**10.50**	**-3.00**
	Nominal	**9.00**	**-4.50**
NB UNII-3 HDR8	Maximum	**10.50**	**-3.00**
	Nominal	**9.00**	**-4.50**

1.4.9 NB UNII Reduced Output Power

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b and WPT active
- Simultaneous conditions with Licensed Bands Antenna 2/1a/1b/4, 2.4 GHz WLAN and WPT active
- Simultaneous conditions with 2.4 GHz WLAN and WPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3b
NB UNII-1 BDR Reduced	Maximum	**7.00**	**4.00**
	Nominal	**5.50**	**2.50**
NB UNII-1 HDR4 Reduced	Maximum	**7.00**	**-2.00**
	Nominal	**5.50**	**-3.50**
NB UNII-1 HDR8 Reduced	Maximum	**7.00**	**-2.00**
	Nominal	**5.50**	**-3.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3b	Modulated Average (iPA) TXBF (dBm) Antenna 3b
NB UNII-1 BDR Reduced	Maximum	**7.00**	**4.00**
	Nominal	**5.50**	**2.50**
NB UNII-1 HDR4 Reduced	Maximum	**7.00**	**-2.00**
	Nominal	**5.50**	**-3.50**
NB UNII-1 HDR8 Reduced	Maximum	**7.00**	**-2.00**
	Nominal	**5.50**	**-3.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b Active and WPT active and 2.4 GHz WLAN
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3b
NB UNII-1 BDR	Maximum	**4.50**	**4.00**
Reduced	Nominal	**3.00**	**2.50**
NB UNII-1 HDR4	Maximum	**4.50**	**-2.00**
Reduced	Nominal	**3.00**	**-3.50**
NB UNII-1 HDR8	Maximum	**4.50**	**-2.00**
Reduced	Nominal	**3.00**	**-3.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3b	Modulated Average (iPA) TXBF (dBm) Antenna 3b
NB UNII-1 BDR	Maximum	**4.50**	**4.00**
Reduced	Nominal	**3.00**	**2.50**
NB UNII-1 HDR4	Maximum	**4.50**	**-2.00**
Reduced	Nominal	**3.00**	**-3.50**
NB UNII-1 HDR8	Maximum	**4.50**	**-2.00**
Reduced	Nominal	**3.00**	**-3.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b and wPT
- Simultaneous conditions with Licensed Bands Antenna 2/3a/3b/4, 2.4 GHz WLAN and wPT active
- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-1 BDR	Maximum	**6.00**	**2.50**
Reduced	Nominal	**4.50**	**1.00**
NB UNII-1 HDR4	Maximum	**6.00**	**-3.50**
Reduced	Nominal	**4.50**	**-5.00**
NB UNII-1 HDR8	Maximum	**6.00**	**-3.50**
Reduced	Nominal	**4.50**	**-5.00**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b active and 2.4 GHz WLAN and WPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-1 BDR Reduced	Maximum	**3.50**	**2.50**
	Nominal	**2.00**	**1.00**
NB UNII-1 HDR4 Reduced	Maximum	**3.50**	**-3.50**
	Nominal	**2.00**	**-5.00**
NB UNII-1 HDR8 Reduced	Maximum	**3.50**	**-3.50**
	Nominal	**2.00**	**-5.00**

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b and WPT active
- Simultaneous conditions with Licensed Bands Antenna 2/1a/1b/4, 2.4 GHz WLAN and WPT active
- Simultaneous conditions with 2.4 GHz WLAN Active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 5T	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 5T
NB UNII-3 BDR Reduced	Maximum	**12.00**	**5.50**
	Nominal	**10.50**	**4.00**
NB UNII-3 HDR4 Reduced	Maximum	**12.00**	**0.00**
	Nominal	**10.50**	**-1.50**
NB UNII-3 HDR8 Reduced	Maximum	**12.00**	**0.00**
	Nominal	**10.50**	**-1.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 5T	Modulated Average (iPA) TXBF (dBm) Antenna 5T
NB UNII-3 BDR Reduced	Maximum	**12.00**	**5.50**
	Nominal	**10.50**	**4.00**
NB UNII-3 HDR4 Reduced	Maximum	**12.00**	**0.00**
	Nominal	**10.50**	**-1.50**
NB UNII-3 HDR8 Reduced	Maximum	**12.00**	**0.00**
	Nominal	**10.50**	**-1.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b active and 2.4 GHz WLAN
- Simultaneous conditions with conditions with Inter-Band ULCA active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 5T	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 5T
NB UNII-3 BDR Reduced	Maximum	**9.50**	**5.50**
	Nominal	**8.00**	**4.00**
NB UNII-3 HDR4 Reduced	Maximum	**9.50**	**0.00**
	Nominal	**8.00**	**-1.50**
NB UNII-3 HDR8 Reduced	Maximum	**9.50**	**0.00**
	Nominal	**8.00**	**-1.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 5T	Modulated Average (iPA) TXBF (dBm) Antenna 5T
NB UNII-3 BDR Reduced	Maximum	**9.50**	**5.50**
	Nominal	**8.00**	**4.00**
NB UNII-3 HDR4 Reduced	Maximum	**9.50**	**0.00**
	Nominal	**8.00**	**-1.50**
NB UNII-3 HDR8 Reduced	Maximum	**9.50**	**0.00**
	Nominal	**8.00**	**-1.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b Active and WPT active
- Simultaneous conditions with Licensed Bands Antenna 2/1a/1b/4, 2.4 GHz WLAN and WPT active
- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3b
NB UNII-3 BDR Reduced	Maximum	**7.00**	**4.50**
	Nominal	**5.50**	**3.00**
NB UNII-3 HDR4 Reduced	Maximum	**7.00**	**-1.50**
	Nominal	**5.50**	**-3.00**
NB UNII-3 HDR8 Reduced	Maximum	**7.00**	**-1.50**
	Nominal	**5.50**	**-3.00**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3b	Modulated Average (iPA) TXBF (dBm) Antenna 3b
NB UNII-3 BDR Reduced	Maximum	**7.00**	**4.50**
	Nominal	**5.50**	**3.00**
NB UNII-3 HDR4 Reduced	Maximum	**7.00**	**-1.50**
	Nominal	**5.50**	**-3.00**
NB UNII-3 HDR8 Reduced	Maximum	**7.00**	**-1.50**
	Nominal	**5.50**	**-3.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b Active and WPT active and 2.4 GHz WLAN
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3b
NB UNII-3 BDR Reduced	Maximum	**4.50**	**4.50**
	Nominal	**3.00**	**3.00**
NB UNII-3 HDR4 Reduced	Maximum	**4.50**	**-1.50**
	Nominal	**3.00**	**-3.00**
NB UNII-3 HDR8 Reduced	Maximum	**4.50**	**-1.50**
	Nominal	**3.00**	**-3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3b	Modulated Average (iPA) TXBF (dBm) Antenna 3b
NB UNII-3 BDR Reduced	Maximum	**4.50**	**4.50**
	Nominal	**3.00**	**3.00**
NB UNII-3 HDR4 Reduced	Maximum	**4.50**	**-1.50**
	Nominal	**3.00**	**-3.00**
NB UNII-3 HDR8 Reduced	Maximum	**4.50**	**-1.50**
	Nominal	**3.00**	**-3.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b Active and wPT active
- Simultaneous conditions with Licensed Bands Antenna 2/3a/3b/4, 2.4 GHz WLAN and wPT active
- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-3 BDR	Maximum	**6.00**	**3.00**
	Nominal	**4.50**	**1.50**
NB UNII-3 HDR4	Maximum	**6.00**	**-3.00**
	Nominal	**4.50**	**-4.50**
NB UNII-3 HDR8	Maximum	**6.00**	**-3.00**
	Nominal	**4.50**	**-4.50**

Below table is applicable for the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b Active and WPT active and 2.4 GHz WLAN
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-3 BDR	Maximum	**3.50**	**3.00**
	Nominal	**2.00**	**1.50**
NB UNII-3 HDR4	Maximum	**3.50**	**-3.00**
	Nominal	**2.00**	**-4.50**
NB UNII-3 HDR8	Maximum	**3.50**	**-3.00**
	Nominal	**2.00**	**-4.50**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.5 DUT Antenna Locations

The overall diagonal dimension of the device is > 200 mm. A diagram showing the location of the device antennas can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

Note: Per FCC KDB Publication 616217 D04v01r01, front side of the device is not required to be evaluated for SAR. All other edges were evaluated for simultaneous transmission analysis.

1.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 4.3.2 procedures.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 1-6
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Body
1	2.4 GHz WI-FI MIMO + WPT	Yes
2	5/6 GHz WI-FI MIMO + WPT	Yes
3	2.4 GHz Bluetooth (TXBF) + WPT	Yes
4	NB UNII (TXBF) + WPT	Yes
5	Cellular Band + 2.4 GHz WI-FI + WPT	Yes
6	Cellular Band + 5/6 GHz WI-FI + WPT	Yes
7	Cellular Band + 2.4 GHz Bluetooth + WPT	Yes
8	Cellular Band + 802.15.4 + WPT	Yes
9	Cellular Band + 2.4 GHz WI-FI MIMO + WPT	Yes
10	Cellular Band + 5/6 GHz WI-FI MIMO + WPT	Yes
11	Cellular Band + 2.4 GHz Bluetooth + 5/6 GHz WI-FI + WPT	Yes
12	Cellular Band + 802.15.4 + 5/6 GHz WI-FI + WPT	Yes
13	Cellular Band + 2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO + WPT	Yes
14	Cellular Band + 802.15.4 + 5/6 GHz WI-FI MIMO + WPT	Yes
15	2.4 GHz Bluetooth + 5 GHz WI-FI + WPT	Yes
16	802.15.4 + 5 GHz WI-FI + WPT	Yes
17	2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO + WPT	Yes
18	802.15.4 + 5/6 GHz WI-FI MIMO + WPT	Yes
19	Cellular Band + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI + WPT	Yes
20	Cellular Band + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI MIMO + WPT	Yes
21	2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI + WPT	Yes
22	2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI MIMO + WPT	Yes
23	Cellular Band + NB UNII + WPT	Yes
24	Cellular Band + NB UNII+ 2.4 GHz WI-FI + WPT	Yes
25	Cellular Band + NB UNII+ 2.4 GHz WI-FI MIMO + WPT	Yes
26	NB UNII + 2.4 GHz WI-FI + WPT	Yes
27	NB UNII + 2.4 GHz WI-FI MIMO + WPT	Yes
28	Cellular Band + NB UNII (TXBF) + 2.4 GHz WI-FI + WPT	Yes
29	Cellular Band + NB UNII (TXBF) + 2.4 GHz WI-FI MIMO + WPT	Yes
30	Cellular Band + NB UNII (TXBF) + WPT	Yes
31	Cellular Band + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
32	2.4 GHz WI-FI Antenna 3a + 2.4 GHz Bluetooth Antenna 1a + WPT	Yes
33	2.4 GHz WI-FI Antenna 3a + 802.15.4 Antenna 1a + WPT	Yes
34	Cellular Band + 2.4 GHz WI-FI Antenna 3a + 2.4 GHz Bluetooth Antenna 1a + WPT	Yes
35	Cellular Band + 2.4 GHz WI-FI Antenna 3a + 802.15.4 Antenna 1a + WPT	Yes

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 1-7
Simultaneous Transmission Scenarios of Inter-Band ULCA

No.	Capable Transmit Configuration	Body	Notes
1	Cellular Ant 2 LB + Cellular Ant 1b MB/HB	Yes	LTE Bands transmitting from Ant 2 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 1b MB/HB: LTE B2/4/7/30/66
2	Cellular Ant 2 LB + Cellular Ant 3b MB/HB	Yes	LTE Bands transmitting from Ant 2 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 3b MB/HB: LTE B2/4/7/30/66
3	Cellular Ant 2 LB + Cellular Ant 4 MB/HB	Yes	LTE Bands transmitting from Ant 2 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 4 MB/HB: LTE B2/4/7/30/66
4	Cellular Ant 4 LB + Cellular Ant 1b MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 1b MB/HB: LTE B2/4/7/30/66
5	Cellular Ant 4 LB + Cellular Ant 2 MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 2 MB/HB: LTE B2/4/7/30/66
6	Cellular Ant 4 LB + Cellular Ant 3b MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 3b MB/HB: LTE B2/4/7/30/66

Note: The technical description includes all the possible Inter-band ULCA combinations.

Table 1-8
Simultaneous Transmission Scenarios with Inter-Band ULCA Active

No.	Capable Transmit Configuration	Body
1	LTE Inter-Band ULCA + 2.4 GHz WI-FI + WPT	Yes
2	LTE Inter-Band ULCA + 5/6 GHz WI-FI + WPT	Yes
3	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + WPT	Yes
4	LTE Inter-Band ULCA + 802.15.4 + WPT	Yes
5	LTE Inter-Band ULCA + 2.4 GHz WI-FI MIMO + WPT	Yes
6	LTE Inter-Band ULCA + 5/6 GHz WI-FI MIMO + WPT	Yes
7	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5/6 GHz WI-FI + WPT	Yes
8	LTE Inter-Band ULCA + 802.15.4 + 5/6 GHz WI-FI + WPT	Yes
9	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO + WPT	Yes
10	LTE Inter-Band ULCA + 802.15.4 + 5/6 GHz WI-FI MIMO + WPT	Yes
11	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI + WPT	Yes
12	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI MIMO + WPT	Yes
13	LTE Inter-Band ULCA + NB UNII + WPT	Yes
14	LTE Inter-Band ULCA + NB UNII+ 2.4 GHz WI-FI + WPT	Yes
15	LTE Inter-Band ULCA + NB UNII+ 2.4 GHz WI-FI MIMO + WPT	Yes
16	LTE Inter-Band ULCA + NB UNII (TXBF) + 2.4 GHz WI-FI + WPT	Yes
17	LTE Inter-Band ULCA + NB UNII (TXBF) + 2.4 GHz WI-FI MIMO + WPT	Yes
18	LTE Inter-Band ULCA + NB UNII (TXBF) + WPT	Yes
19	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
20	LTE Inter-Band ULCA + 2.4 GHz WI-FI Antenna 3a + 2.4 GHz Bluetooth Antenna 1a + WPT	Yes
21	LTE Inter-Band ULCA + 2.4 GHz WI-FI Antenna 3a + 802.15.4 Antenna 1a + WPT	Yes

Note: LTE inter-band ULCA can operate in any of the combinations in Table 1-7

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1. There are no limitations in the above listed simultaneous transmission scenarios between cellular antennas and BT/WI-FI antennas.
2. 2.4GHz WIFI and 2.4 GHz Bluetooth/802.15.4 can transmit simultaneously on separate antennas. Specific 2.4 GHz WIFI Antenna that can only transmit simultaneously with 2.4 GHz Bluetooth/802.15.4 is listed in the above table. In this scenario, Wi-Fi max power will not exceed minimum of (13.5 dBm, SAR max cap, Reg max cap) power. Additionally, in disconnected mode, BT will be using iPA only.
3. Specific NB UNII TXBF Antennas that can only transmit simultaneously are listed in the Simultaneous Transmission Backoff Scenarios document.
4. 2.4 GHz WLAN and 5 GHz WLAN cannot transmit simultaneously.
5. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
6. EN-DC operation is supported with LTE + 5G NR FR1 scenarios. The LTE anchor bands are shown in the NR FR1 checklist.
7. This device supports VoWIFI

1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Based on the maximum allowed power for the respective antennas, U-NII-2A was evaluated for Antenna 1b, Antenna 5T, and Antenna 3b. Additional testing for U-NII-1 Antenna 1b, Antenna 5T, and Antenna 3b SAR was not required since U-NII-1 and U-NII-2A bands have the same maximum output power and all reported SAR was less than 1.2 W/kg per FCC KDB Publication 248227 D01v02r02.

The WLAN/Bluetooth/802.15/NB UNII chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report. WLAN/Bluetooth/802.15/NB UNII SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN/Bluetooth configurations.

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, channels 1, 6, and 11 were considered for SAR testing per FCC KDB 248227 D01V02r02.

This device supports IEEE 802.11ac with the following features:

a) Up to 160 MHz Bandwidth only for 5/6 GHz
b) 3 Tx antenna output
c) 256 QAM is supported
d) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax with the following features:

a) Up to 160 MHz Bandwidth only for 5/6 GHz
b) Up to 20 MHz Bandwidth only for 2.4 GHz
c) No aggregate channel configurations
d) 3 Tx antenna output
e) Up to 1024 QAM is supported
f) TDWR and Band gap channels are supported for 5 GHz
g) MU-MIMO UL Operations are not supported

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. FCC KDB 648474 and FCC KDB 248227 were followed for test positions, distances, and modes. Per TCB workshop October 2020 notes, 5 channels were tested. Absorbed power density (APD) using a 4cm2 averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (iPD) between d=2mm and d=λ/5mm is ≥ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%.

(B) Licensed Transmitter(s)

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r04.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive. The downlink carrier aggregation exclusion analysis can be found in LTE DLCA RF Conducted Powers Appendix.

This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

This device supports LTE/NR capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE/NR Band falls completely within an LTE/NR band with a larger transmission frequency range, both LTE/NR bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE/NR bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41 and NR Band n41/77. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class 2 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 13).

This device supports LTE Carrier Aggregation (CA) for LTE Band 41, LTE Band 48, LTE Band 5, and LTE Band 7 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

This device supports inter-band LTE Carrier Aggregation (CA) for LTE Bands 2/4/5/30/7/12/13/14/66 with two component carriers in the uplink.

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

1.8 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (Interim General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Tablet)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- November 2017, April 2018, October 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- October 2018 TCB Workshop Notes (Inter-band Uplink Carrier Aggregation)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (IEEE 802.11ax)
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEEE 1528-2013
- IEC TR 63170:2018
- IEC 62479:2010

1.9 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 10.

1.10 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1C2311270066-01.BCG
RF Exposure Part 2 Test Report	1C2311270066-03.BCG
RF Exposure Compliance Summary Report	1C2311270066-04.BCG

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Tablet				
Frequency Range of each LTE transmission	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 30 (2307.5 - 2312.5 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
	LTE Band 48 (3552.5 - 3697.5 MHz)				
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)		680.5 (133297)	695.5 (133447)	
LTE Band 71: 10 MHz	668 (133172)		680.5 (133297)	693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)		680.5 (133297)	690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)		680.5 (133297)	688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz	706.5 (23755)		710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)		710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	N/A		782 (23230)	N/A	
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	N/A		793 (23330)	N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)	844 (26990)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)	848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)	844 (20600)	
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)		1745 (132322)	1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)		1745 (132322)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)		1745 (132322)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)		1745 (132322)	1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)		1745 (132322)	1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)		1745 (132322)	1770 (132572)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)		1732.5 (20175)	1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)		1732.5 (20175)	1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)		1732.5 (20175)	1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)		1732.5 (20175)	1745 (20300)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)		1882.5 (26365)	1914.3 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)	1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)	1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)	1910 (26640)	
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)	1907.5 (26615)	
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)	1905 (26590)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)		1880 (18900)	1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)		1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)		1880 (18900)	1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)		1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)		1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)		1880 (18900)	1900 (19100)	
LTE Band 30: 5 MHz	2307.5 (27685)		2310 (27710)	2312.5 (27735)	
LTE Band 30: 10 MHz	N/A		2310 (27710)	N/A	
LTE Band 7: 5 MHz	2502.5 (20775)		2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (20800)		2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz	2507.5 (20825)		2405 (21100)	2562.5 (21375)	
LTE Band 7: 20 MHz	2510 (20850)		2535 (21100)	2560 (21350)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3690 (56640)
UE Category	DL UE Cat 20, UL UE Cat 18				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3~6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR	YES				
LTE Carrier Aggregation Possible	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conductive Powers Appendix. All uplink communications are identical to the Release 8 Specifications. The following LTE Release 15 Features are not supported: Carrier Aggregation, Relay, HetNet, Enhanced MIMO, eICIC, WIFI Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

NR Information						
Form Factor	Tablet					
Frequency Range of each NR transmission band	NR Band n71 (665.5 - 695.5 MHz) NR Band n12 (701.5 - 713.5 MHz) NR Band n14 (790.5 - 795.5 MHz) NR Band n26 (Cell) (816.5 - 846.5 MHz) NR Band n5 (Cell) (826.5 - 846.5 MHz) NR Band n70 (1697.5 - 1707.5 MHz) NR Band n66 (AWS) (1712.5 - 1777.5 MHz) NR Band n25 (PCS) (1852.5 - 1912.5 MHz) NR Band n2 (PCS) (1852.5 - 1907.5 MHz) NR Band n30 (2307.5 - 2312.5 MHz) NR Band n7 (2502.5 - 2567.5 MHz) NR Band n41 (2501.01 - 2685 MHz) NR Band n48 (3555.0 - 3694.98 MHz) NR Band n77 DoD (3455.01 - 3544.98 MHz) NR Band n77 C (3705.0 - 3975.0 MHz)						
Channel Bandwidths	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n12: 5 MHz, 10 MHz, 15 MHz NR Band n14: 5 MHz, 10 MHz NR Band n26 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n70: 5 MHz, 10 MHz, 15 MHz NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 35 MHz, 40 MHz NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n30: 5 MHz, 10 MHz NR Band n7: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz NR Band n41: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n48: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz NR Band n77 DoD: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n77 C: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz						
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid		Mid-High	High
NR Band n71: 5 MHz	665.5 (133100)		680.5 (136100)		695.5 (139100)	
NR Band n71: 10 MHz	668 (133600)		680.5 (136100)		693 (138600)	
NR Band n71: 15 MHz	670.5 (134100)		680.5 (136100)		690.5 (138100)	
NR Band n71: 20 MHz	673 (134600)		680.5 (136100)		688 (137600)	
NR Band n12: 5 MHz	701.5 (140300)		707.5 (141500)		713.5 (142700)	
NR Band n12: 10 MHz	704 (140800)		707.5 (141500)		711 (142200)	
NR Band n12: 15 MHz	706.5 (141300)		707.5 (141500)		708.5 (141700)	
NR Band n14: 5 MHz	790.5 (158100)		793 (158600)		795.5 (159100)	
NR Band n14: 10 MHz	N/A		793 (158600)		N/A	
NR Band n26 (Cell): 5 MHz	816.5 (163300)		831.5 (166300)		846.5 (169300)	
NR Band n26 (Cell): 10 MHz	819 (163800)		831.5 (166300)		844 (168800)	
NR Band n26 (Cell): 15 MHz	821.5 (164300)		831.5 (166300)		841.5 (168300)	
NR Band n26 (Cell): 20 MHz	N/A		831.5 (166300)		N/A	
NR Band n5 (Cell): 5 MHz	826.5 (165300)		836.5 (167300)		846.5 (169300)	
NR Band n5 (Cell): 10 MHz	829 (165800)		836.5 (167300)		844 (168800)	
NR Band n5 (Cell): 15 MHz	831.5 (166300)		836.5 (167300)		841.5 (168300)	
NR Band n5 (Cell): 20 MHz	834 (166800)		836.5 (167300)		839 (167800)	
NR Band n70: 5 MHz	1697.5 (339500)		1702.5 (340500)		1707.5 (341500)	
NR Band n70: 10 MHz	1700 (340000)		1702.5 (340500)		1705 (341000)	
NR Band n70: 15 MHz	N/A		1702.5 (340500)		N/A	
NR Band n66 (AWS): 5 MHz	1712.5 (342500)		1745 (349000)		1777.5 (355500)	
NR Band n66 (AWS): 10 MHz	1715 (343000)		1745 (349000)		1775 (355000)	
NR Band n66 (AWS): 15 MHz	1717.5 (343500)		1745 (349000)		1772.5 (354500)	
NR Band n66 (AWS): 20 MHz	1720 (344000)		1745 (349000)		1770 (354000)	
NR Band n66 (AWS): 25 MHz	1722.5 (344500)		1745 (349000)		1767.5 (353500)	
NR Band n66 (AWS): 30 MHz	1725 (345000)		1745 (349000)		1765 (353000)	
NR Band n66 (AWS): 35 MHz	1727.5 (345500)		1745 (349000)		1762.5 (352500)	
NR Band n66 (AWS): 40 MHz	1730 (346000)		1745 (349000)		1760 (352000)	
NR Band n25 (PCS): 5 MHz	1852.5 (370500)		1882.5 (376500)		1912.5 (382500)	
NR Band n25 (PCS): 10 MHz	1855 (371000)		1882.5 (376500)		1910 (382000)	
NR Band n25 (PCS): 15 MHz	1857.5 (371500)		1882.5 (376500)		1907.5 (381500)	
NR Band n25 (PCS): 20 MHz	1860 (372000)		1882.5 (376500)		1905 (381000)	
NR Band n25 (PCS): 30 MHz	1865 (373000)		1882.5 (376500)		1900 (380000)	
NR Band n25 (PCS): 35 MHz	1867.5 (373500)		1882.5 (376500)		1897.5 (379500)	
NR Band n25 (PCS): 40 MHz	1870 (374000)		1882.5 (376500)		1895 (379000)	
NR Band n2 (PCS): 5 MHz	1852.5 (370500)		1880 (376000)		1907.5 (381500)	
NR Band n2 (PCS): 10 MHz	1855 (371000)		1880 (376000)		1905 (381000)	
NR Band n2 (PCS): 15 MHz	1857.5 (371500)		1880 (376000)		1902.5 (380500)	
NR Band n2 (PCS): 20 MHz	1860 (372000)		1880 (376000)		1900 (380000)	
NR Band n30: 5 MHz	2307.5 (461500)		2310 (462000)		2312.5 (462500)	
NR Band n30: 10 MHz	N/A		2310 (462000)		N/A	
NR Band n7: 5 MHz	2502.5 (500500)		2535 (507000)		2567.5 (513500)	
NR Band n7: 10 MHz	2505 (501000)		2535 (507000)		2565 (513000)	
NR Band n7: 15 MHz	2507.5 (501500)		2535 (507000)		2562.5 (512500)	
NR Band n7: 20 MHz	2510 (502000)		2535 (507000)		2560 (512000)	
NR Band n7: 25 MHz	2512.5 (502500)		2535 (507000)		2557.5 (511500)	
NR Band n7: 30 MHz	2515 (503000)		2535 (507000)		2555 (511000)	
NR Band n7: 35 MHz	2517.5 (503500)		2535 (507000)		2552.5 (511500)	
NR Band n7: 40 MHz	2520 (504000)		2535 (507000)		2550 (510000)	
NR Band n41: 10 MHz	2501.01 (500202)	2547 (509400)	2592.99 (518598)		2639.01 (527802)	2685 (537000)
NR Band n41: 15 MHz	2503.5 (500700)	2548.26 (509652)	2592.99 (518598)		2637.75 (527550)	2682.48 (536496)
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)		2636.49 (527298)	2679.99 (535998)
NR Band n41: 30 MHz	2511 (502200)	2552.01 (510402)	2592.99 (518598)		2634 (526800)	2674.98 (534996)
NR Band n41: 40 MHz	2516.01 (503202)	2567.34 (513468)	N/A		2618.67 (523734)	2670 (534000)
NR Band n41: 50 MHz	2521.02 (504204)		2592.99 (518598)		2664.99 (532998)	
NR Band n41: 60 MHz	2526 (505200)		2592.99 (518598)		2659.98 (531996)	
NR Band n41: 70 MHz	2531.01 (506202)		N/A		2655 (531000)	
NR Band n41: 80 MHz	2536.02 (507204)		N/A		2649.99 (529998)	
NR Band n41: 90 MHz	2541 (508200)		N/A		2644.98 (528996)	
NR Band n41: 100 MHz	2546.01 (509202)		2592.99 (518598)		2640 (528000)	
NR Band n48: 10 MHz	3555 (637000)	3601.68 (640112)	N/A		3648.33 (643222)	3694.98 (646332)
NR Band n48: 15 MHz	3557.52 (637168)	3602.49 (640166)	N/A		3647.49 (643166)	3692.49 (646166)
NR Band n48: 20 MHz	3560.01 (637334)	3603.33 (640222)	N/A		3646.68 (643112)	3690 (646000)
NR Band n48: 30 MHz	3565.02 (637668)	3605.01 (640334)	N/A		3645 (643000)	3684.99 (645666)
NR Band n48: 40 MHz	3570 (638000)	N/A	3624.99 (641666)		N/A	3679.98 (645332)
NR Band n77 DoD: 10 MHz	3455.01 (630334)		3500.01 (633334)		3544.98 (636332)	
NR Band n77 DoD: 15 MHz	3457.5 (630500)		3500.01 (633334)		3542.49 (636166)	
NR Band n77 DoD: 20 MHz	3460.02 (630668)		3500.01 (633334)		3540 (636000)	
NR Band n77 DoD: 30 MHz	3465 (631000)		3500.01 (633334)		3534.99 (635666)	
NR Band n77 DoD: 40 MHz	3470.01 (631334)		N/A		3529.98 (635332)	
NR Band n77 DoD: 50 MHz	3475.02 (631668)		N/A		3525 (635000)	
NR Band n77 DoD: 60 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 70 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 80 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 90 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 100 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 C: 10 MHz	3705 (647000)	3759 (650600)	3813 (654200)	3867 (657800)	3921 (661400)	3975 (665000)
NR Band n77 C: 15 MHz	3707.52 (647168)	3760.5 (650700)	3813.51 (654234)	3866.49 (657766)	3919.5 (661300)	3972.48 (664832)
NR Band n77 C: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654266)	3866.01 (657734)	3918 (661200)	3969.99 (664666)
NR Band n77 C: 30 MHz	3715.02 (647668)	3765 (651000)	3815.01 (654334)	3864.99 (657666)	3915 (661000)	3964.98 (664332)
NR Band n77 C: 40 MHz	3720 (648000)	3768 (651200)	3816 (654400)	3864 (657600)	3912 (660800)	3960 (664000)
NR Band n77 C: 50 MHz	3725.01 (648334)	3762.49 (652166)	3840 (656000)		3897.51 (659834)	3954.99 (663666)
NR Band n77 C: 60 MHz	3730.02 (648668)	3803.34 (653556)	N/A	N/A	3876.66 (659444)	3949.98 (663332)
NR Band n77 C: 70 MHz	3735 (649000)	3804.99 (653666)	N/A		3875.01 (658334)	3945 (663000)
NR Band n77 C: 80 MHz	3740.01 (649334)	N/A	3840 (656000)		N/A	3939.99 (662666)
NR Band n77 C: 90 MHz	3745.02 (649668)	N/A	3840 (656000)		N/A	3934.98 (662332)
NR Band n77 C: 100 MHz	3750 (650000)	N/A	N/A	N/A	N/A	3930 (662000)
SCS for NR Band	15 kHz					
SCS for NR Band n41/n48/n77 DoD/n77 C	30 kHz					
Modulations Supported in UL	DFT-s-OFDM: π/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM					
A-MPR (Additional MPR) disabled for SAR Testing?	YES					
EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations					
LTE Anchor Bands for NR Band n71	LTE Band 66/2/7/48					
LTE Anchor Bands for NR Band n12	LTE Band 66/2/30/48					
LTE Anchor Bands for NR Band n14	LTE Band 66/2/30					
LTE Anchor Bands for NR Band n26 (Cell)	N/A					
LTE Anchor Bands for NR Band n5 (Cell)	LTE Band 66/2/30/7/48					
LTE Anchor Bands for NR Band n70	N/A					
LTE Anchor Bands for NR Band n66 (AWS)	LTE Band 71/12/13/14/5/2/30/7/48					
LTE Anchor Bands for NR Band n25 (PCS)	LTE Band 12/66/48					
LTE Anchor Bands for NR Band n2 (PCS)	LTE Band 12/13/14/5/66/48					
LTE Anchor Bands for NR Band n30	LTE Band 12/14/5/66					
LTE Anchor Bands for NR Band n7	LTE Band 12/5/66					
LTE Anchor Bands for NR Band n41	LTE Band 12/26/5/66/4/25/2					
LTE Anchor Bands for NR Band n48	LTE Band 71/13/5/66/2					
LTE Anchor Bands for NR Band n77 DoD	LTE Band 71/12/13/14/5/66/2/30/7/41					
LTE Anchor Bands for NR Band n77 C	LTE Band 71/12/13/14/5/66/2/30/7/41					

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

3 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1
SAR Mathematical Equation

$$SAR = \frac{d}{dt}\left(\frac{dU}{dm}\right) = \frac{d}{dt}\left(\frac{dU}{\rho dv}\right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

σ = conductivity of the tissue-simulating material (S/m)
ρ = mass density of the tissue-simulating material (kg/m^3)
E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

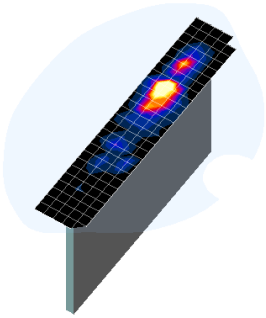


Figure 4-1
Sample SAR Area Scan

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface, and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):

   a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).

   b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.

   c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 4-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

Frequency	Maximum Area Scan Resolution (mm) (Δx_{area}, Δy_{area})	Maximum Zoom Scan Resolution (mm) (Δx_{zoom}, Δy_{zoom})	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
			$\Delta z_{zoom}(n)$	$\Delta z_{zoom}(1)$*	$\Delta z_{zoom}(n>1)$*	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5*Δz_{zoom}(n-1)	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5*Δz_{zoom}(n-1)	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5*Δz_{zoom}(n-1)	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5*Δz_{zoom}(n-1)	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5*Δz_{zoom}(n-1)	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity ε = 3 and loss tangent δ = 0.02.

5.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04v01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

6.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

6.3 RF Exposure Limits for Frequencies below 6 GHz

Table 6-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT *General Population* (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT *Occupational* (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

6.4 RF Exposure Limits for Frequencies above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m2 or mW/cm2.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm2 per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

Table 6-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

Human Exposure to Radiofrequency (RF) Radiation Limits		
Frequency Range [MHz]	**Power Density** [mW/cm^2]	**Average Time** [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5.0	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1.0	30

Note: 1.0 mW/cm^2 is 10 W/m^2

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

7 FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

7.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

7.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

7.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

The device is placed into a simulated call using a base station simulator in an RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1-gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

Maximum output power is verified on the High, Middle, and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

7.4.2 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple $DPDCH_n$ configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or $DPDCH_n$, for the highest reported SAR configuration in 12.2 kbps RMC.

7.4.3 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

7.4.4 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

7.4.5 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

7.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

7.5.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

7.5.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

7.5.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

7.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth.
    i. The required channel and offset combination with the highest maximum output power is required for SAR.
    ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
    iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.

7.5.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

7.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance with KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

7.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset-based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

7.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

7.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

7.6.4 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel, i.e., all channels require testing.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

2.4 GHz 802.11 g/n/ax OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.6.5 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

7.6.6 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 7.6.5). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.6.7 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.6.8 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D04v01 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is <1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8 RF CONDUCTED POWERS

All conducted power measurements for 3G/4G/5G Sub6 WWAN technologies and bands in this section were performed by setting Reserve power margin (Qualcomm® Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum (Plimit, maximum tune up output power Pmax).

8.1 UMTS P_{limit} Conducted Powers

Table 8-1
Measured P_{Limit} Antenna 1b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	12.17	12.15	**12.36**	**11.31**	11.29	11.28	-
6	HSDPA	Subtest 1	12.06	11.95	12.03	11.00	11.08	11.14	0
6		Subtest 2	12.04	11.93	11.96	10.97	11.07	11.10	0
6		Subtest 3	11.55	11.42	11.48	10.50	10.56	10.60	0.5
6		Subtest 4	11.53	11.44	11.47	10.51	10.56	10.63	0.5
6	HSUPA	Subtest 1	11.83	11.74	11.78	10.99	11.08	11.11	0
6		Subtest 2	10.04	9.96	9.97	8.99	9.07	9.14	2
6		Subtest 3	11.02	10.94	10.96	9.97	10.07	10.11	1
6		Subtest 4	10.03	9.94	9.96	9.00	9.05	9.10	2
6		Subtest 5	12.06	11.95	12.00	11.03	11.08	11.16	0
8	DC-HSDPA	Subtest 1	12.07	11.98	11.99	11.01	10.95	11.00	0
8		Subtest 2	12.02	11.93	11.97	10.93	10.86	11.08	0
8		Subtest 3	11.50	11.41	11.47	10.46	10.53	10.59	0.5
8		Subtest 4	11.53	11.44	11.45	10.48	10.52	10.60	0.5

Table 8-2
Measured P_{Limit} Antenna 2

Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
		4132	4183	4233	1312	1412	1513	9262	9400	9538	
WCDMA	12.2 kbps RMC	**19.39**	19.26	19.33	**14.58**	14.50	14.49	**14.65**	14.53	14.49	-
HSDPA	Subtest 1	18.55	18.69	18.68	13.99	13.87	13.90	13.92	13.79	13.80	0
	Subtest 2	18.53	18.70	18.67	13.94	13.82	13.81	13.87	13.78	13.75	0
	Subtest 3	18.07	18.20	18.18	13.45	13.32	13.35	13.41	13.31	13.25	0.5
	Subtest 4	18.05	18.21	18.15	13.48	13.34	13.33	13.42	13.33	13.29	0.5
HSUPA	Subtest 1	18.66	18.84	18.83	14.11	13.96	13.97	14.08	13.92	13.89	0
	Subtest 2	16.69	16.84	16.83	12.10	11.98	12.01	12.08	11.90	11.89	2
	Subtest 3	17.69	17.86	17.82	13.11	12.97	12.95	13.06	12.90	12.87	1
	Subtest 4	16.70	16.83	16.82	12.11	11.97	11.99	11.98	11.85	11.82	2
	Subtest 5	18.65	18.80	18.78	14.08	13.97	13.94	14.03	13.88	13.87	0
DC-HSDPA	Subtest 1	18.62	18.78	18.74	14.11	14.03	13.99	14.06	13.93	13.94	0
	Subtest 2	18.65	18.79	18.75	14.06	13.95	13.96	14.05	13.92	13.89	0
	Subtest 3	18.13	18.29	18.26	13.58	13.44	13.48	13.55	13.42	13.40	0.5
	Subtest 4	18.14	18.30	18.24	13.60	13.46	13.48	13.56	13.41	13.42	0.5

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-3
Measured P_{Limit} Antenna 3b

Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
		1312	1412	1513	9262	9400	9538	
WCDMA	12.2 kbps RMC	12.94	**13.06**	12.98	**11.82**	11.67	11.72	-
HSDPA	Subtest 1	12.43	12.57	12.40	12.10	11.98	12.03	0
	Subtest 2	12.44	12.56	12.43	12.09	11.99	12.02	0
	Subtest 3	11.93	12.09	11.95	11.59	11.46	11.53	0.5
	Subtest 4	11.94	12.07	11.94	11.60	11.48	11.54	0.5
HSUPA	Subtest 1	12.39	12.56	12.44	12.07	11.99	12.02	0
	Subtest 2	10.39	10.55	10.44	10.07	10.00	10.02	2
	Subtest 3	11.38	11.54	11.46	11.08	10.98	10.98	1
	Subtest 4	10.40	10.56	10.45	10.08	9.99	10.01	2
	Subtest 5	12.40	12.55	12.45	12.07	11.99	12.01	0
DC-HSDPA	Subtest 1	12.38	12.53	12.42	12.05	11.96	12.00	0
	Subtest 2	12.37	12.54	12.43	12.06	11.97	11.99	0
	Subtest 3	11.87	12.04	11.94	11.66	11.47	11.49	0.5
	Subtest 4	11.88	12.05	12.05	11.65	11.48	11.51	0.5

Table 8-4
Measured P_{Limit} Antenna 4

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	19.19	**19.21**	19.08	14.47	14.38	**14.59**	13.78	13.81	**13.84**	-
6	HSDPA	Subtest 1	18.80	18.93	18.87	14.13	14.09	14.30	13.70	13.77	13.69	0
6		Subtest 2	18.81	18.91	18.88	14.11	14.06	14.27	13.69	13.76	13.66	0
6		Subtest 3	18.30	18.43	18.39	13.67	13.59	13.78	13.17	13.24	13.19	0.5
6		Subtest 4	18.29	18.44	18.35	13.68	13.58	13.79	13.16	13.23	13.18	0.5
6	HSUPA	Subtest 1	18.81	18.94	18.90	14.11	14.06	14.29	13.69	13.76	13.67	0
6		Subtest 2	16.81	16.96	16.92	12.13	12.08	12.32	11.67	11.75	11.69	2
6		Subtest 3	17.80	17.93	17.89	13.12	13.07	13.30	12.67	12.74	12.66	1
6		Subtest 4	16.77	16.94	16.88	12.13	12.07	12.32	11.65	11.75	11.68	2
6		Subtest 5	19.81	18.95	18.91	14.15	14.09	14.33	13.73	13.81	13.77	0
8	DC-HSDPA	Subtest 1	18.80	18.92	18.91	14.20	14.09	14.33	13.74	13.77	13.73	0
8		Subtest 2	18.79	18.91	18.89	14.11	14.05	14.27	13.69	13.75	13.67	0
8		Subtest 3	18.38	18.43	18.39	13.65	13.60	13.80	13.15	13.27	13.21	0.5
8		Subtest 4	18.31	18.44	18.36	13.64	13.59	13.83	13.14	13.26	13.19	0.5

DC-HSDPA considerations

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA

Figure 8-1
Power Measurement Setup

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2 LTE Conducted Powers

Notes: Per FCC KDB Publication 941225 D05v02r05, LTE SAR for the lower bandwidths was not required for testing since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg. Lower bandwidth conducted powers for all LTE bands can be found in appendix LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

8.2.1 LTE Band 71

Table 8-5
LTE Band 71 Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**20.01**	0	0
	1	50	19.94		0
	1	99	19.89		0
	50	0	19.88	0-1	0
	50	25	**19.92**		0
	50	50	19.87		0
	100	0	19.91		0
16QAM	1	0	19.86	0-1	0
	1	50	19.98		0
	1	99	19.89		0
	50	0	19.77	0-2	0
	50	25	19.81		0
	50	50	19.74		0
	100	0	19.84		0
64QAM	1	0	19.91	0-2	0
	1	50	20.13		0
	1	99	19.90		0
	50	0	19.79	0-3	0
	50	25	19.83		0
	50	50	19.77		0
	100	0	19.83		0
256QAM	1	0	19.48	0-5	1.2
	1	50	19.33		1.2
	1	99	19.38		1.2
	50	0	19.02		1.2
	50	25	19.17		1.2
	50	50	19.01		1.2
	100	0	19.07		1.2

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-6
LTE Band 71 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.47	0	0
	1	50	**19.65**		0
	1	99	19.51		0
	50	0	19.40	0-1	0
	50	25	**19.58**		0
	50	50	19.47		0
	100	0	19.54		0
16QAM	1	0	19.59	0-1	0
	1	50	19.87		0
	1	99	19.73		0
	50	0	19.39	0-2	0
	50	25	19.52		0
	50	50	19.48		0
	100	0	19.47		0
64QAM	1	0	19.36	0-2	0
	1	50	19.49		0
	1	99	19.47		0
	50	0	19.37	0-3	0
	50	25	19.49		0
	50	50	19.46		0
	100	0	19.44		0
256QAM	1	0	19.64	0-5	0
	1	50	19.70		0
	1	99	19.77		0
	50	0	19.39		0
	50	25	19.49		0
	50	50	19.53		0
	100	0	19.45		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.2 LTE Band 12

Table 8-7
LTE Band 12 Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **23095** **(707.5 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**19.82**	0	0
	1	25	19.68		0
	1	49	19.67		0
	25	0	19.67	0-1	0
	25	12	**19.69**		0
	25	25	19.63		0
	50	0	19.65		0
16QAM	1	0	19.84	0-1	0
	1	25	19.69		0
	1	49	19.58		0
	25	0	19.47	0-2	0
	25	12	19.44		0
	25	25	19.41		0
	50	0	19.48		0
64QAM	1	0	19.71	0-2	0
	1	25	19.64		0
	1	49	19.53		0
	25	0	19.51	0-3	0
	25	12	19.49		0
	25	25	19.47		0
	50	0	19.49		0
256QAM	1	0	19.17	0-5	0.3
	1	25	19.22		0.3
	1	49	19.09		0.3
	25	0	19.00		0.3
	25	12	19.00		0.3
	25	25	18.92		0.3
	50	0	18.96		0.3

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-8
LTE Band 12 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **23095** **(707.5 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**19.46**	0	0
	1	25	19.32		0
	1	49	19.30		0
	25	0	**19.55**	0-1	0
	25	12	19.44		0
	25	25	19.39		0
	50	0	19.42		0
16QAM	1	0	19.62	0-1	0
	1	25	19.38		0
	1	49	19.49		0
	25	0	19.39	0-2	0
	25	12	19.41		0
	25	25	19.36		0
	50	0	19.35		0
64QAM	1	0	19.52	0-2	0
	1	25	19.37		0
	1	49	19.57		0
	25	0	19.40	0-3	0
	25	12	19.42		0
	25	25	19.30		0
	50	0	19.34		0
256QAM	1	0	19.61	0-5	0
	1	25	19.54		0
	1	49	19.36		0
	25	0	19.36		0
	25	12	19.37		0
	25	25	19.29		0
	50	0	19.38		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.3 LTE Band 13

Table 8-9
LTE Band 13 Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**19.33**	0	0
	1	25	19.31		0
	1	49	19.25		0
	25	0	19.31	0-1	0
	25	12	**19.38**		0
	25	25	19.29		0
	50	0	19.15		0
16QAM	1	0	19.31	0-1	0
	1	25	19.36		0
	1	49	19.15		0
	25	0	19.30	0-2	0
	25	12	19.31		0
	25	25	19.25		0
	50	0	19.26		0
64QAM	1	0	19.63	0-2	0
	1	25	19.60		0
	1	49	19.39		0
	25	0	19.27	0-3	0
	25	12	19.35		0
	25	25	19.27		0
	50	0	19.24		0
256QAM	1	0	19.07	0-5	0.2
	1	25	19.22		0.2
	1	49	19.09		0.2
	25	0	19.03		0.2
	25	12	19.17		0.2
	25	25	19.05		0.2
	50	0	19.02		0.2

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-10
LTE Band 13 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **23230** **(782.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**20.53**	0	0
	1	25	20.39		0
	1	49	20.43		0
	25	0	20.29	0-1	0
	25	12	**20.33**		0
	25	25	20.32		0
	50	0	20.31		0
16QAM	1	0	20.20	0-1	0
	1	25	20.05		0
	1	49	20.10		0
	25	0	20.05	0-2	0
	25	12	19.97		0
	25	25	19.93		0
	50	0	19.92		0
64QAM	1	0	20.30	0-2	0
	1	25	20.28		0
	1	49	20.09		0
	25	0	20.10	0-3	0
	25	12	20.03		0
	25	25	19.99		0
	50	0	20.04		0
256QAM	1	0	20.06	0-5	0.8
	1	25	20.12		0.8
	1	49	19.85		0.8
	25	0	19.80		0.8
	25	12	19.78		0.8
	25	25	19.71		0.8
	50	0	19.75		0.8

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.4 LTE Band 14

Table 8-11
LTE Band 14 Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.33	0	0
	1	25	19.25		0
	1	49	**19.34**		0
	25	0	**19.26**	0-1	0
	25	12	19.25		0
	25	25	19.25		0
	50	0	19.00		0
16QAM	1	0	19.25	0-1	0
	1	25	19.05		0
	1	49	19.19		0
	25	0	19.15	0-2	0
	25	12	19.17		0
	25	25	19.13		0
	50	0	19.13		0
64QAM	1	0	19.55	0-2	0
	1	25	19.46		0
	1	49	19.28		0
	25	0	19.24	0-3	0
	25	12	19.17		0
	25	25	19.15		0
	50	0	19.19		0
256QAM	1	0	19.14	0-5	0.2
	1	25	19.09		0.2
	1	49	19.08		0.2
	25	0	18.93		0.2
	25	12	18.94		0.2
	25	25	18.91		0.2
	50	0	18.93		0.2

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-12
LTE Band 14 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	20.81	0	0
	1	25	20.80		0
	1	49	**20.84**		0
	25	0	20.87	0-1	0
	25	12	**20.91**		0
	25	25	20.86		0
	50	0	20.83		0
16QAM	1	0	20.87	0-1	0
	1	25	20.67		0
	1	49	20.88		0
	25	0	20.45	0-2	0
	25	12	20.58		0
	25	25	20.57		0
	50	0	20.56		0
64QAM	1	0	20.79	0-2	0
	1	25	20.69		0
	1	49	20.76		0
	25	0	20.53	0-3	0
	25	12	20.61		0
	25	25	20.58		0
	50	0	20.58		0
256QAM	1	0	20.21	0-5	0.8
	1	25	20.20		0.8
	1	49	20.14		0.8
	25	0	20.05		0.8
	25	12	20.11		0.8
	25	25	20.10		0.8
	50	0	20.09		0.8

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.5 LTE Band 26

Table 8-13
LTE Band 26 (Cell) Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**19.65**	19.51	19.62	0	0
	1	25	19.60	19.48	19.61		0
	1	49	19.63	19.47	19.58		0
	25	0	19.50	19.47	19.46	0-1	0
	25	12	**19.61**	19.59	19.48		0
	25	25	19.56	19.53	19.52		0
	50	0	19.58	19.55	19.48		0
16QAM	1	0	19.77	19.67	19.59	0-1	0
	1	25	19.68	19.61	19.68		0
	1	49	19.76	19.52	19.58		0
	25	0	19.42	19.42	19.36	0-2	0
	25	12	19.55	19.47	19.41		0
	25	25	19.49	19.46	19.42		0
	50	0	19.49	19.43	19.37		0
64QAM	1	0	19.57	19.65	19.62	0-2	0
	1	25	19.63	19.72	19.51		0
	1	49	19.47	19.69	19.54		0
	25	0	19.42	19.39	19.33	0-3	0
	25	12	19.54	19.49	19.36		0
	25	25	19.49	19.45	19.41		0
	50	0	19.50	19.48	19.34		0
256QAM	1	0	19.22	19.05	19.18	0-5	0
	1	25	19.19	19.17	19.28		0
	1	49	19.19	19.09	19.27		0
	25	0	19.05	19.04	19.04		0
	25	12	19.16	19.14	19.04		0
	25	25	19.11	19.11	19.05		0
	50	0	19.16	19.11	19.00		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-14
LTE Band 26 (Cell) Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.23	19.11	18.86	0	0
	1	25	18.98	19.08	18.87		0
	1	49	19.01	**19.24**	18.84		0
	25	0	19.00	19.02	18.92	0-1	0
	25	12	19.12	**19.13**	18.94		0
	25	25	19.07	19.08	18.99		0
	50	0	19.03	19.06	18.96		0
16QAM	1	0	19.33	19.26	19.01	0-1	0
	1	25	19.28	19.22	18.98		0
	1	49	19.21	19.05	19.05		0
	25	0	19.04	19.00	18.89	0-2	0
	25	12	19.13	19.08	18.97		0
	25	25	19.08	19.02	18.94		0
	50	0	19.07	19.06	18.90		0
64QAM	1	0	19.18	19.14	19.07	0-2	0
	1	25	19.33	19.17	19.05		0
	1	49	19.23	19.03	19.11		0
	25	0	18.92	18.87	18.75	0-3	0
	25	12	19.00	18.98	18.88		0
	25	25	18.97	18.92	18.81		0
	50	0	18.97	18.96	18.76		0
256QAM	1	0	19.01	19.11	18.86	0-5	0
	1	25	19.18	19.19	19.04		0
	1	49	19.16	19.18	18.99		0
	25	0	18.97	18.94	18.82		0
	25	12	19.05	19.04	18.88		0
	25	25	18.96	18.97	18.84		0
	50	0	18.98	18.98	18.76		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.6 LTE Band 5

Table 8-15
LTE Band 5 (Cell) Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.46	0	0
	1	25	19.45		0
	1	49	**19.55**		0
	25	0	19.34	0-1	0
	25	12	**19.51**		0
	25	25	19.38		0
	50	0	19.50		0
16QAM	1	0	19.34	0-1	0
	1	25	19.39		0
	1	49	19.40		0
	25	0	19.27	0-2	0
	25	12	19.36		0
	25	25	19.27		0
	50	0	19.30		0
64QAM	1	0	19.38	0-2	0
	1	25	19.55		0
	1	49	19.50		0
	25	0	19.23	0-3	0
	25	12	19.35		0
	25	25	19.31		0
	50	0	19.22		0
256QAM	1	0	18.99	0-5	0
	1	25	19.12		0
	1	49	19.16		0
	25	0	18.90		0
	25	12	18.96		0
	25	25	18.94		0
	50	0	18.92		0

Table 8-16
LTE Band 5 (Cell) Antenna 2 Uplink Carrier Aggregation Measured P_{Limit}

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	49	LTE B5	5	20597	843.7	2597	888.7	QPSK	1	0	19.47	19.55

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-17
LTE Band 5 (Cell) Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.94	0	0
	1	25	**19.97**		0
	1	49	19.94		0
	25	0	19.97	0-1	0
	25	12	**19.98**		0
	25	25	19.74		0
	50	0	19.95		0
16QAM	1	0	19.86	0-1	0
	1	25	19.93		0
	1	49	19.78		0
	25	0	19.50	0-2	0
	25	12	19.58		0
	25	25	19.55		0
	50	0	19.48		0
64QAM	1	0	19.47	0-2	0
	1	25	19.68		0
	1	49	19.63		0
	25	0	19.48	0-3	0
	25	12	19.55		0
	25	25	19.50		0
	50	0	19.47		0
256QAM	1	0	19.59	0-5	0
	1	25	19.79		0
	1	49	19.65		0
	25	0	19.49		0
	25	12	19.55		0
	25	25	19.50		0
	50	0	19.46		0

Table 8-18
LTE Band 5 (Cell) Antenna 4 Uplink Carrier Aggregation Measured P_{Limit}

	PCC										SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	25	25	LTE B5	5	20597	843.7	2597	888.7	QPSK	12	0	19.99	19.74

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.7 LTE Band 66

Table 8-19
LTE Band 66 (AWS) Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.02	12.05	11.76	0	0
	1	50	12.05	**12.06**	11.85		0
	1	99	12.03	12.02	11.77		0
	50	0	12.02	11.96	11.99	0-1	0
	50	25	12.05	**12.10**	12.04		0
	50	50	12.08	12.03	12.07		0
	100	0	12.05	12.04	12.00		0
16QAM	1	0	11.78	11.80	11.97	0-1	0
	1	50	11.91	12.06	12.08		0
	1	99	11.85	11.85	11.98		0
	50	0	11.78	11.73	11.86	0-2	0
	50	25	11.90	11.88	11.98		0
	50	50	11.86	11.83	11.95		0
	100	0	11.83	11.82	11.83		0
64QAM	1	0	11.87	11.92	11.98	0-2	0
	1	50	11.98	11.96	12.08		0
	1	99	12.05	12.08	11.88		0
	50	0	11.77	11.75	11.86	0-3	0
	50	25	11.88	11.88	11.98		0
	50	50	11.86	11.86	11.96		0
	100	0	11.83	11.84	11.83		0
256QAM	1	0	11.76	11.73	11.82	0-5	0
	1	50	11.85	11.82	12.03		0
	1	99	11.93	11.90	12.00		0
	50	0	11.66	11.76	11.86		0
	50	25	11.75	11.85	11.98		0
	50	50	11.76	11.85	11.93		0
	100	0	11.76	11.85	11.81		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-20
LTE Band 66 (AWS) Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**14.60**	14.45	14.33	0	0
	1	50	14.54	14.30	14.32		0
	1	99	14.52	14.35	14.21		0
	50	0	**14.54**	14.48	14.34	0-1	0
	50	25	14.48	14.49	14.41		0
	50	50	14.46	14.46	14.38		0
	100	0	14.46	14.41	14.33		0
16QAM	1	0	14.50	14.33	14.33	0-1	0
	1	50	14.62	14.49	14.48		0
	1	99	14.62	14.55	14.40		0
	50	0	14.38	14.27	14.20	0-2	0
	50	25	14.32	14.29	14.32		0
	50	50	14.25	14.24	14.23		0
	100	0	14.26	14.24	14.15		0
64QAM	1	0	14.32	14.27	14.22	0-2	0
	1	50	14.35	14.24	14.43		0
	1	99	14.24	14.26	14.08		0
	50	0	14.24	14.14	14.17	0-3	0
	50	25	14.23	14.14	14.23		0
	50	50	14.12	14.10	14.17		0
	100	0	14.17	14.12	14.12		0
256QAM	1	0	14.45	14.44	14.41	0-5	0
	1	50	14.40	14.43	14.40		0
	1	99	14.34	14.36	14.32		0
	50	0	14.32	14.23	14.25		0
	50	25	14.32	14.25	14.35		0
	50	50	14.20	14.15	14.23		0
	100	0	14.24	14.19	14.19		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-21
LTE Band 66 (AWS) Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.05	13.16	13.09	0	0
	1	50	12.97	13.20	13.00		0
	1	99	13.07	**13.21**	12.92		0
	50	0	12.98	13.18	13.04	0-1	0
	50	25	13.10	**13.28**	13.16		0
	50	50	13.12	13.23	13.07		0
	100	0	13.08	13.12	13.06		0
16QAM	1	0	12.92	13.13	13.22	0-1	0
	1	50	13.22	13.23	13.22		0
	1	99	13.21	13.11	13.12		0
	50	0	12.91	13.20	12.98	0-2	0
	50	25	13.07	13.20	12.98		0
	50	50	13.05	13.12	12.92		0
	100	0	13.02	13.18	12.95		0
64QAM	1	0	13.00	13.23	13.16	0-2	0
	1	50	13.27	13.43	13.07		0
	1	99	13.41	13.21	12.90		0
	50	0	12.92	13.18	13.00	0-3	0
	50	25	13.06	13.23	12.97		0
	50	50	13.07	13.16	12.89		0
	100	0	13.01	13.15	12.94		0
256QAM	1	0	13.02	13.32	13.19	0-5	0
	1	50	13.13	13.48	13.05		0
	1	99	13.24	13.30	12.84		0
	50	0	12.89	13.20	12.97		0
	50	25	13.02	13.24	13.01		0
	50	50	13.00	13.17	12.91		0
	100	0	13.01	13.19	12.90		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-22
LTE Band 66 (AWS) Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.19	14.29	13.89	0	0
	1	50	14.25	**14.31**	13.90		0
	1	99	14.23	14.20	13.68		0
	50	0	14.17	14.29	14.13	0-1	0
	50	25	14.31	**14.32**	14.15		0
	50	50	14.28	14.29	14.05		0
	100	0	14.24	14.26	14.07		0
16QAM	1	0	14.34	14.43	14.26	0-1	0
	1	50	14.61	14.72	14.42		0
	1	99	14.42	14.41	14.13		0
	50	0	14.23	14.29	14.10	0-2	0
	50	25	14.36	14.34	14.07		0
	50	50	14.30	14.29	14.00		0
	100	0	14.32	14.27	14.05		0
64QAM	1	0	14.20	14.37	14.23	0-2	0
	1	50	14.43	14.67	14.25		0
	1	99	14.30	14.32	13.97		0
	50	0	14.03	14.16	13.99	0-3	0
	50	25	14.18	14.27	13.97		0
	50	50	14.15	14.19	13.92		0
	100	0	14.14	14.18	13.95		0
256QAM	1	0	14.12	14.29	14.26	0-5	0
	1	50	14.23	14.33	14.12		0
	1	99	14.17	14.14	13.97		0
	50	0	14.03	14.13	13.93		0
	50	25	14.12	14.23	13.94		0
	50	50	14.11	14.14	13.85		0
	100	0	14.12	14.12	13.91		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.8 LTE Band 25

Table 8-23
LTE Band 25 (PCS) Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.91	10.72	10.98	0	0
	1	50	11.06	10.99	**11.12**		0
	1	99	10.97	10.83	10.99		0
	50	0	11.05	11.01	11.02	0-1	0
	50	25	11.10	11.05	11.06		0
	50	50	11.08	11.09	**11.13**		0
	100	0	11.05	10.98	11.03		0
16QAM	1	0	10.79	11.04	11.13	0-1	0
	1	50	10.98	11.16	11.34		0
	1	99	10.92	10.97	11.19		0
	50	0	10.99	11.00	11.04	0-2	0
	50	25	11.02	11.04	11.11		0
	50	50	11.04	11.13	11.07		0
	100	0	11.01	10.99	11.10		0
64QAM	1	0	11.04	11.06	11.14	0-2	0
	1	50	11.15	11.28	11.28		0
	1	99	11.22	11.10	11.11		0
	50	0	10.92	11.03	11.01	0-3	0
	50	25	11.02	11.06	11.11		0
	50	50	11.06	11.16	11.07		0
	100	0	11.00	11.14	11.10		0
256QAM	1	0	10.98	10.83	10.96	0-5	0
	1	50	11.09	11.03	11.10		0
	1	99	11.15	11.04	10.97		0
	50	0	10.80	10.92	10.87		0
	50	25	10.96	11.09	10.99		0
	50	50	10.98	11.03	10.96		0
	100	0	10.91	11.05	10.95		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-24
LTE Band 25 (PCS) Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.22	14.46	14.47	0	0
	1	50	14.28	**14.58**	14.51		0
	1	99	14.23	14.49	14.37		0
	50	0	14.27	14.54	14.51	0-1	0
	50	25	14.54	**14.61**	14.56		0
	50	50	14.51	14.58	14.54		0
	100	0	14.50	14.55	14.52		0
16QAM	1	0	14.35	14.45	14.51	0-1	0
	1	50	14.66	14.64	14.80		0
	1	99	14.45	14.49	14.43		0
	50	0	14.44	14.42	14.28	0-2	0
	50	25	14.49	14.47	14.29		0
	50	50	14.48	14.47	14.34		0
	100	0	14.45	14.44	14.24		0
64QAM	1	0	14.45	14.53	14.49	0-2	0
	1	50	14.66	14.77	14.76		0
	1	99	14.48	14.47	14.46		0
	50	0	14.44	14.46	14.26	0-3	0
	50	25	14.51	14.46	14.24		0
	50	50	14.50	14.43	14.33		0
	100	0	14.48	14.42	14.21		0
256QAM	1	0	14.52	14.44	14.43	0-5	0
	1	50	14.63	14.75	14.79		0
	1	99	14.54	14.57	14.37		0
	50	0	14.43	14.46	14.28		0
	50	25	14.50	14.49	14.26		0
	50	50	14.49	14.45	14.30		0
	100	0	14.46	14.46	14.22		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-25
LTE Band 25 (PCS) Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.94	11.74	11.70	0	0
	1	50	**12.00**	11.84	11.82		0
	1	99	11.87	11.80	11.76		0
	50	0	11.99	11.86	11.83	0-1	0
	50	25	**12.01**	11.88	11.88		0
	50	50	11.92	11.90	11.93		0
	100	0	11.98	11.88	11.84		0
16QAM	1	0	11.72	11.79	11.86	0-1	0
	1	50	11.88	11.81	11.95		0
	1	99	11.84	11.74	11.90		0
	50	0	11.79	11.74	11.71	0-2	0
	50	25	11.86	11.80	11.80		0
	50	50	11.82	11.77	11.79		0
	100	0	11.82	11.75	11.75		0
64QAM	1	0	11.62	11.60	11.50	0-2	0
	1	50	11.73	11.76	11.75		0
	1	99	11.69	11.61	11.55		0
	50	0	11.62	11.50	11.43	0-3	0
	50	25	11.64	11.55	11.55		0
	50	50	11.59	11.52	11.50		0
	100	0	11.60	11.51	11.46		0
256QAM	1	0	11.75	11.62	11.50	0-5	0
	1	50	11.92	11.66	11.59		0
	1	99	11.84	11.65	11.65		0
	50	0	11.61	11.50	11.42		0
	50	25	11.64	11.58	11.55		0
	50	50	11.59	11.52	11.54		0
	100	0	11.62	11.52	11.45		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-26
LTE Band 25 (PCS) Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.67	13.73	13.68	0	0
	1	50	13.57	**13.76**	13.67		0
	1	99	13.54	13.72	13.66		0
	50	0	13.63	13.77	13.74	0-1	0
	50	25	13.68	**13.78**	13.73		0
	50	50	13.72	13.75	13.69		0
	100	0	13.74	13.75	13.72		0
16QAM	1	0	13.35	13.48	13.60	0-1	0
	1	50	13.52	13.45	13.78		0
	1	99	13.53	13.33	13.46		0
	50	0	13.36	13.58	13.39	0-2	0
	50	25	13.49	13.59	13.41		0
	50	50	13.47	13.53	13.28		0
	100	0	13.42	13.52	13.35		0
64QAM	1	0	13.33	13.31	13.26	0-2	0
	1	50	13.48	13.63	13.34		0
	1	99	13.45	13.26	13.14		0
	50	0	13.17	13.36	13.22	0-3	0
	50	25	13.27	13.36	13.18		0
	50	50	13.30	13.25	13.04		0
	100	0	13.23	13.32	13.15		0
256QAM	1	0	13.14	13.32	13.39	0-5	0
	1	50	13.32	13.42	13.32		0
	1	99	13.35	13.39	13.14		0
	50	0	13.18	13.36	13.16		0
	50	25	13.30	13.38	13.21		0
	50	50	13.29	13.24	13.05		0
	100	0	13.26	13.34	13.16		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.9 LTE Band 30

Table 8-27

LTE Band 30 Measured P_{Limit} Antenna 1b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **27710** **(2310.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**11.90**	0	0
	1	25	11.84		0
	1	49	11.76		0
	25	0	11.89	0-1	0
	25	12	**11.94**		0
	25	25	11.91		0
	50	0	11.86		0
16QAM	1	0	12.03	0-1	0
	1	25	12.18		0
	1	49	12.07		0
	25	0	11.91	0-2	0
	25	12	11.88		0
	25	25	11.92		0
	50	0	11.92		0
64QAM	1	0	12.02	0-2	0
	1	25	12.05		0
	1	49	12.04		0
	25	0	11.89	0-3	0
	25	12	11.95		0
	25	25	11.89		0
	50	0	11.92		0
256QAM	1	0	11.95	0-5	0
	1	25	12.06		0
	1	49	12.08		0
	25	0	11.94		0
	25	12	11.99		0
	25	25	11.96		0
	50	0	11.95		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-28
LTE Band 30 Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	12.90	0	0
	1	25	**13.04**		0
	1	49	12.80		0
	25	0	**13.02**	0-1	0
	25	12	12.88		0
	25	25	12.79		0
	50	0	13.00		0
16QAM	1	0	13.19	0-1	0
	1	25	13.15		0
	1	49	13.19		0
	25	0	13.00	0-2	0
	25	12	13.07		0
	25	25	12.95		0
	50	0	12.98		0
64QAM	1	0	13.25	0-2	0
	1	25	13.14		0
	1	49	13.19		0
	25	0	13.04	0-3	0
	25	12	13.04		0
	25	25	12.94		0
	50	0	13.00		0
256QAM	1	0	13.29	0-5	0
	1	25	13.28		0
	1	49	13.13		0
	25	0	13.05		0
	25	12	13.07		0
	25	25	12.99		0
	50	0	12.99		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-29
LTE Band 30 Measured P_{Limit} Antenna 3b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **27710** **(2310.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	12.34	0	0
	1	25	**12.58**		0
	1	49	12.47		0
	25	0	12.43	0-1	0
	25	12	**12.57**		0
	25	25	12.40		0
	50	0	12.56		0
16QAM	1	0	12.69	0-1	0
	1	25	12.65		0
	1	49	12.55		0
	25	0	12.58	0-2	0
	25	12	12.61		0
	25	25	12.57		0
	50	0	12.55		0
64QAM	1	0	12.71	0-2	0
	1	25	12.66		0
	1	49	12.65		0
	25	0	12.48	0-3	0
	25	12	12.57		0
	25	25	12.56		0
	50	0	12.55		0
256QAM	1	0	12.63	0-5	0
	1	25	12.56		0
	1	49	12.59		0
	25	0	12.55		0
	25	12	12.58		0
	25	25	12.55		0
	50	0	12.58		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-30
LTE Band 30 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	14.30	0	0
	1	25	**14.34**		0
	1	49	14.20		0
	25	0	14.32	0-1	0
	25	12	**14.36**		0
	25	25	14.24		0
	50	0	14.31		0
16QAM	1	0	14.07	0-1	0
	1	25	14.08		0
	1	49	14.07		0
	25	0	13.80	0-2	0
	25	12	13.96		0
	25	25	13.92		0
	50	0	13.89		0
64QAM	1	0	13.93	0-2	0
	1	25	14.02		0
	1	49	13.94		0
	25	0	13.85	0-3	0
	25	12	13.84		0
	25	25	13.79		0
	50	0	13.83		0
256QAM	1	0	13.88	0-5	0
	1	25	13.94		0
	1	49	13.93		0
	25	0	13.81		0
	25	12	13.86		0
	25	25	13.79		0
	50	0	13.80		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.10 LTE Band 7

Table 8-31
LTE Band 7 Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.27	11.17	11.34	0	0
	1	50	11.30	**11.38**	11.35		0
	1	99	11.29	11.20	11.32		0
	50	0	11.42	11.43	11.44	0-1	0
	50	25	11.47	**11.50**	11.42		0
	50	50	11.44	11.42	11.49		0
	100	0	11.32	11.37	11.31		0
16QAM	1	0	10.98	11.20	11.41	0-1	0
	1	50	11.28	11.49	11.76		0
	1	99	11.09	11.29	11.61		0
	50	0	11.17	11.24	11.28	0-2	0
	50	25	11.20	11.32	11.36		0
	50	50	11.21	11.29	11.35		0
	100	0	11.17	11.25	11.30		0
64QAM	1	0	11.20	11.28	11.38	0-2	0
	1	50	11.35	11.55	11.55		0
	1	99	11.21	11.36	11.49		0
	50	0	11.13	11.28	11.27	0-3	0
	50	25	11.21	11.34	11.34		0
	50	50	11.21	11.32	11.32		0
	100	0	11.18	11.24	11.27		0
256QAM	1	0	11.37	11.27	11.19	0-5	0
	1	50	11.36	11.25	11.50		0
	1	99	11.31	11.44	11.62		0
	50	0	11.20	11.19	11.20		0
	50	25	11.29	11.23	11.37		0
	50	50	11.22	11.25	11.40		0
	100	0	11.23	11.19	11.33		0

Table 8-32
LTE Band 7 Antenna 1b Uplink Carrier Aggregation Measured P_{Limit}

	PCC										SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	1	99	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	1	0	11.45	11.29

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-33
LTE Band 7 Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.18	11.27	11.27	0	0
	1	50	11.20	**11.34**	11.28		0
	1	99	11.14	11.23	11.26		0
	50	0	11.39	**11.40**	11.37	0-1	0
	50	25	11.34	11.38	11.36		0
	50	50	11.35	11.31	11.27		0
	100	0	11.28	11.33	11.30		0
16QAM	1	0	10.89	10.94	11.10	0-1	0
	1	50	11.00	11.10	11.34		0
	1	99	10.88	10.94	11.14		0
	50	0	11.00	10.94	10.91	0-2	0
	50	25	10.98	10.99	10.92		0
	50	50	10.95	10.93	10.89		0
	100	0	10.94	10.90	10.88		0
64QAM	1	0	11.02	11.03	10.93	0-2	0
	1	50	11.15	11.21	11.02		0
	1	99	11.03	11.04	11.02		0
	50	0	10.99	10.98	10.88	0-3	0
	50	25	10.94	10.98	10.94		0
	50	50	10.93	10.91	10.86		0
	100	0	10.91	10.96	10.89		0
256QAM	1	0	11.05	10.99	10.99	0-5	0
	1	50	11.05	11.03	10.97		0
	1	99	11.23	11.02	10.95		0
	50	0	10.98	10.91	10.87		0
	50	25	10.94	10.98	10.94		0
	50	50	10.98	10.93	10.87		0
	100	0	10.93	10.92	10.93		0

Table 8-34
LTE Band 7 Antenna 2 Uplink Carrier Aggregation Measured P_{Limit}

	PCC									SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	1	99	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	1	0	11.08	11.14

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-35
LTE Band 7 Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.86	10.90	11.00	0	0
	1	50	10.94	10.91	**11.03**		0
	1	99	10.92	10.85	10.97		0
	50	0	11.06	11.11	**11.14**	0-1	0
	50	25	11.05	11.10	11.09		0
	50	50	11.04	11.03	11.03		0
	100	0	10.97	10.99	11.00		0
16QAM	1	0	10.80	10.92	11.08	0-1	0
	1	50	10.98	11.14	11.23		0
	1	99	10.97	10.98	11.21		0
	50	0	10.97	10.95	10.94	0-2	0
	50	25	10.90	10.99	10.99		0
	50	50	10.91	10.94	10.91		0
	100	0	10.86	10.94	10.91		0
64QAM	1	0	11.10	11.05	10.87	0-2	0
	1	50	11.13	11.09	11.08		0
	1	99	11.12	11.00	11.09		0
	50	0	10.98	10.89	10.92	0-3	0
	50	25	10.93	10.94	10.95		0
	50	50	10.90	10.90	10.87		0
	100	0	10.82	10.89	10.87		0
256QAM	1	0	11.08	11.03	11.02	0-5	0
	1	50	11.18	11.06	11.06		0
	1	99	11.09	11.10	11.07		0
	50	0	11.00	10.94	10.96		0
	50	25	11.08	11.02	11.01		0
	50	50	11.01	11.00	11.03		0
	100	0	11.04	10.97	11.01		0

Table 8-36
LTE Band 7 Antenna 3b Uplink Carrier Aggregation Measured P_{Limit}

	PCC									SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	50	50	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	50	0	10.97	11.04

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-37
LTE Band 7 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.44	10.27	**10.46**	0	0
	1	50	10.45	10.41	10.45		0
	1	99	10.43	10.29	10.40		0
	50	0	10.47	10.37	10.56	0-1	0
	50	25	10.51	10.43	**10.62**		0
	50	50	10.39	10.35	10.58		0
	100	0	10.41	10.35	10.38		0
16QAM	1	0	10.19	10.38	10.53	0-1	0
	1	50	10.44	10.42	10.62		0
	1	99	10.30	10.22	10.40		0
	50	0	10.30	10.33	10.35	0-2	0
	50	25	10.36	10.43	10.37		0
	50	50	10.22	10.27	10.28		0
	100	0	10.27	10.39	10.35		0
64QAM	1	0	10.39	10.43	10.35	0-2	0
	1	50	10.39	10.55	10.57		0
	1	99	10.35	10.30	10.27		0
	50	0	10.27	10.31	10.36	0-3	0
	50	25	10.32	10.40	10.34		0
	50	50	10.21	10.34	10.25		0
	100	0	10.27	10.36	10.31		0
256QAM	1	0	10.36	10.40	10.35	0-5	0
	1	50	10.57	10.44	10.36		0
	1	99	10.51	10.46	10.19		0
	50	0	10.26	10.31	10.26		0
	50	25	10.35	10.35	10.31		0
	50	50	10.24	10.30	10.20		0
	100	0	10.34	10.34	10.26		0

Table 8-38
LTE Band 7 Antenna 4 Uplink Carrier Aggregation Measured P_{Limit}

	PCC									SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	10.61	10.46

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.11 LTE Band 41

Table 8-39
LTE Band 41 PC3 Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.24	13.35	13.38	13.14	13.17	0	0
	1	50	13.31	13.31	13.39	13.16	13.23		0
	1	99	13.26	13.26	**13.47**	13.44	13.27		0
	50	0	13.45	13.45	13.45	13.46	13.25	0-1	0
	50	25	13.38	13.38	**13.50**	13.44	13.31		0
	50	50	13.39	13.39	13.40	13.19	13.26		0
	100	0	13.34	13.34	13.38	13.27	13.32		0
16QAM	1	0	13.64	13.67	13.79	13.57	13.56	0-1	0
	1	50	13.66	13.80	13.89	13.49	13.64		0
	1	99	13.66	13.68	13.81	13.60	13.68		0
	50	0	13.58	13.57	13.85	13.32	13.46	0-2	0
	50	25	13.58	13.53	13.87	13.36	13.46		0
	50	50	13.49	13.56	13.77	13.29	13.41		0
	100	0	13.53	13.52	13.78	13.36	13.45		0
64QAM	1	0	13.45	13.53	13.64	13.31	13.36	0-2	0
	1	50	13.44	13.60	13.61	13.28	13.37		0
	1	99	13.37	13.52	13.61	13.36	13.41		0
	50	0	13.52	13.58	13.61	13.35	13.45	0-3	0
	50	25	13.58	13.52	13.63	13.37	13.47		0
	50	50	13.48	13.52	13.56	13.30	13.42		0
	100	0	13.56	13.51	13.54	13.35	13.47		0
256QAM	1	0	13.44	13.52	13.60	13.29	13.38	0-5	0
	1	50	13.43	13.55	13.62	13.27	13.36		0
	1	99	13.40	13.54	13.61	13.36	13.43		0
	50	0	13.53	13.59	13.62	13.35	13.45		0
	50	25	13.55	13.53	13.62	13.35	13.46		0
	50	50	13.48	13.51	13.56	13.30	13.40		0
	100	0	13.54	13.51	13.53	13.36	13.47		0

Table 8-40
LTE Band 41 PC3 Antenna 1b Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41055	2636.5	QPSK	50	0	LTE B41	20	40857	2616.7	QPSK	50	50	13.33	13.46

Table 8-41
LTE Band 41 PC2 Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.60	14.68	14.62	14.56	14.62	0	0
	1	50	14.75	14.62	14.82	14.57	14.64		0
	1	99	14.59	14.71	14.66	14.60	14.59		0
	50	0	14.70	14.72	14.74	14.57	14.60	0-1	0
	50	25	14.68	14.71	14.80	14.65	14.61		0
	50	50	14.69	14.67	14.71	14.58	14.59		0
	100	0	14.64	14.63	14.69	14.59	14.58		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-42
LTE Band 41 PC2 Antenna 1b Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41055	2636.5	QPSK	50	0	LTE B41 PC2	20	40857	2616.7	QPSK	50	50	14.36	14.57

Table 8-43
LTE Band 41 PC3 Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.41	13.54	13.51	13.52	13.26	0	0
	1	50	13.54	13.56	**13.63**	13.50	13.32		0
	1	99	13.43	13.51	13.59	13.51	13.31		0
	50	0	13.65	13.63	13.64	13.53	13.39	0-1	0
	50	25	13.66	13.62	**13.74**	13.62	13.43		0
	50	50	13.59	13.60	13.61	13.53	13.35		0
	100	0	13.62	13.55	13.59	13.57	13.41		0
16QAM	1	0	13.72	13.84	13.74	13.69	13.58	0-1	0
	1	50	13.78	13.87	13.71	13.71	13.64		0
	1	99	13.82	13.80	13.80	13.72	13.57		0
	50	0	13.67	13.68	13.62	13.46	13.37	0-2	0
	50	25	13.66	13.68	13.65	13.53	13.35		0
	50	50	13.63	13.60	13.58	13.43	13.29		0
	100	0	13.66	13.63	13.55	13.51	13.36		0
64QAM	1	0	13.52	13.60	13.58	13.41	13.41	0-2	0
	1	50	13.55	13.63	13.57	13.45	13.39		0
	1	99	13.51	13.57	13.65	13.47	13.39		0
	50	0	13.65	13.65	13.60	13.51	13.40	0-3	0
	50	25	13.68	13.65	13.64	13.58	13.42		0
	50	50	13.57	13.56	13.57	13.48	13.33		0
	100	0	13.66	13.64	13.55	13.52	13.41		0
256QAM	1	0	13.52	13.62	13.58	13.41	13.42	0-5	0
	1	50	13.58	13.61	13.57	13.44	13.39		0
	1	99	13.51	13.55	13.66	13.49	13.39		0
	50	0	13.66	13.67	13.60	13.50	13.39		0
	50	25	13.68	13.66	13.65	13.55	13.41		0
	50	50	13.59	13.57	13.60	13.47	13.28		0
	100	0	13.63	13.64	13.54	13.50	13.39		0

Table 8-44
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	13.38	13.63

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-45
LTE Band 41 PC2 Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.44	15.58	15.49	15.45	15.38	0	0
	1	50	15.57	15.64	15.57	15.55	15.46		0
	1	99	15.48	15.55	15.56	15.52	15.45		0
	50	0	15.60	15.59	15.64	15.55	15.39	0-1	0
	50	25	15.66	15.55	15.68	15.59	15.43		0
	50	50	15.57	15.53	15.61	15.51	15.34		0
	100	0	15.63	15.52	15.58	15.57	15.37		0

Table 8-46
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40185	2549.5	QPSK	50	0	LTE B41 PC2	20	39987	2529.7	QPSK	50	50	15.65	15.59

Table 8-47
LTE Band 41 PC3 Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.99	13.97	14.05	13.90	13.93	0	0
	1	50	14.08	14.02	**14.11**	13.91	13.96		0
	1	99	13.92	13.93	13.99	13.84	13.88		0
	50	0	14.13	14.12	14.14	13.99	13.95	0-1	0
	50	25	14.16	14.15	**14.17**	14.03	14.02		0
	50	50	14.06	14.05	14.04	13.93	13.88		0
	100	0	14.08	14.07	14.09	13.97	13.96		0
16QAM	1	0	13.60	13.67	13.81	13.50	13.57	0-1	0
	1	50	13.64	13.86	13.69	13.53	13.71		0
	1	99	13.67	13.68	13.60	13.49	13.64		0
	50	0	13.68	13.65	13.68	13.50	13.45	0-2	0
	50	25	13.65	13.67	13.71	13.61	13.50		0
	50	50	13.62	13.60	13.60	13.44	13.43		0
	100	0	13.66	13.68	13.62	13.50	13.47		0
64QAM	1	0	13.62	13.52	13.69	13.46	13.36	0-2	0
	1	50	13.72	13.66	13.70	13.60	13.45		0
	1	99	13.62	13.62	13.48	13.43	13.48		0
	50	0	13.67	13.66	13.69	13.49	13.44	0-3	0
	50	25	13.70	13.68	13.70	13.50	13.47		0
	50	50	13.62	13.60	13.58	13.46	13.43		0
	100	0	13.67	13.67	13.63	13.51	13.48		0
256QAM	1	0	13.68	13.57	13.42	13.56	13.40	0-5	0
	1	50	13.64	13.47	13.58	13.49	13.28		0
	1	99	13.76	13.51	13.52	13.49	13.40		0
	50	0	13.65	13.63	13.67	13.47	13.44		0
	50	25	13.69	13.66	13.72	13.48	13.47		0
	50	50	13.59	13.59	13.63	13.73	13.42		0
	100	0	13.67	13.63	13.61	13.51	13.44		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-48
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3b

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	13.72	13.92

Table 8-49
LTE Band 41 PC2 Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.56	15.50	15.45	15.34	15.28	0	0
	1	50	15.66	15.54	15.48	15.40	15.26		0
	1	99	15.55	15.45	15.41	15.41	15.31		0
	50	0	15.75	15.66	15.56	15.34	15.32	0-1	0
	50	25	15.68	15.67	15.54	15.38	15.39		0
	50	50	15.69	15.59	15.42	15.31	15.33		0
	100	0	15.66	15.65	15.54	15.35	15.34		0

Table 8-50
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3b

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	1	99	LTE B41 PC2	20	39948	2525.8	QPSK	1	0	15.51	15.55

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-51
LTE Band 41 PC3 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.04	13.11	13.02	13.07	13.00	0	0
	1	50	13.14	**13.25**	13.03	13.03	13.01		0
	1	99	13.01	13.09	13.00	13.01	13.05		0
	50	0	13.22	**13.24**	13.05	13.03	13.04	0-1	0
	50	25	13.15	13.18	13.11	13.06	13.01		0
	50	50	13.17	13.12	13.01	13.02	13.03		0
	100	0	13.15	13.17	13.07	13.04	13.00		0
16QAM	1	0	13.23	13.21	12.99	13.04	13.07	0-1	0
	1	50	13.28	13.30	13.08	13.17	13.03		0
	1	99	13.14	13.20	13.03	13.18	13.10		0
	50	0	13.23	13.22	13.09	13.14	13.14	0-2	0
	50	25	13.19	13.18	13.15	13.16	13.18		0
	50	50	13.21	13.16	13.06	13.13	13.06		0
	100	0	13.19	13.15	13.11	13.16	13.12		0
64QAM	1	0	12.92	13.14	12.93	12.99	13.02	0-2	0
	1	50	13.30	13.47	13.09	13.16	13.10		0
	1	99	13.05	13.04	13.02	13.12	12.88		0
	50	0	13.28	13.21	13.08	13.07	13.10	0-3	0
	50	25	13.21	13.23	13.13	13.14	13.13		0
	50	50	13.20	13.15	13.00	13.07	13.04		0
	100	0	13.23	13.15	13.11	13.12	13.09		0
256QAM	1	0	13.13	13.11	12.95	13.02	12.97	0-5	0
	1	50	13.23	13.20	12.98	13.13	12.95		0
	1	99	13.25	12.91	13.10	13.00	12.78		0
	50	0	13.22	13.23	13.10	13.08	13.09		0
	50	25	13.22	13.19	13.16	13.13	13.12		0
	50	50	13.19	13.19	13.05	13.08	13.01		0
	100	0	13.20	13.18	13.09	13.11	13.10		0

Table 8-52
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41055	2636.5	QPSK	50	0	LTE B41	20	40857	2616.7	QPSK	50	50	12.90	13.03

Table 8-53
LTE Band 41 PC2 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.68	14.50	14.44	14.45	14.46	0	0
	1	50	14.67	14.78	14.45	14.50	14.54		0
	1	99	14.68	14.47	14.47	14.54	14.54		0
	50	0	14.71	14.74	14.58	14.59	14.60	0-1	0
	50	25	14.73	14.61	14.62	14.68	14.64		0
	50	50	14.68	14.60	14.55	14.59	14.57		0
	100	0	14.68	14.59	14.63	14.64	14.62		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-54
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41055	2636.5	QPSK	50	0	LTE B41 PC2	20	40857	2616.7	QPSK	50	50	14.64	14.59

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.13 LTE Band 48

Table 8-55
LTE Band 48 Measured P_{Limit} Antenna 1a - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	11.64	11.56	11.60	11.57	0	0
	1	50	11.62	11.54	11.61	11.74		0
	1	99	11.57	11.59	**11.79**	11.61		0
	50	0	11.68	11.69	11.61	11.75	0-1	0
	50	25	11.73	11.70	11.65	11.70		0
	50	50	11.75	11.71	**11.78**	11.72		0
	100	0	11.69	11.73	11.77	11.68		0
16QAM	1	0	11.77	11.68	11.86	11.89	0-1	0
	1	50	12.09	11.90	12.05	12.17		0
	1	99	11.87	11.78	11.90	11.87		0
	50	0	11.76	11.80	11.96	11.86	0-2	0
	50	25	11.88	11.94	11.97	11.87		0
	50	50	11.90	11.93	11.93	11.85		0
	100	0	11.86	11.88	11.94	11.88		0
64QAM	1	0	11.47	11.59	11.75	11.54	0-2	0
	1	50	11.60	11.81	11.85	11.64		0
	1	99	11.70	11.67	11.69	11.56		0
	50	0	11.63	11.76	11.91	11.77	0-3	0
	50	25	11.78	11.91	11.96	11.77		0
	50	50	11.79	11.89	11.95	11.73		0
	100	0	11.75	11.87	11.93	11.75		0
256QAM	1	0	11.58	11.69	11.97	11.64	0-5	0
	1	50	11.69	11.91	11.81	11.61		0
	1	99	11.65	11.98	11.78	11.49		0
	50	0	11.59	11.72	11.89	11.74		0
	50	25	11.72	11.90	11.95	11.78		0
	50	50	11.77	11.86	11.92	11.72		0
	100	0	11.67	11.83	11.90	11.71		0

Table 8-56
LTE Band 48 Antenna 1a Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	11.78	11.75

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-57
LTE Band 48 Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	11.99	11.95	12.10	12.15	0	0
	1	50	12.07	12.06	**12.40**	12.21		0
	1	99	12.04	12.00	12.16	12.07		0
	50	0	12.02	12.05	12.42	12.28	0-1	0
	50	25	12.17	12.22	**12.43**	12.31		0
	50	50	12.16	12.19	12.26	12.24		0
	100	0	12.12	12.15	12.39	12.26		0
16QAM	1	0	12.06	11.96	12.11	12.23	0-1	0
	1	50	12.14	12.13	12.34	12.27		0
	1	99	12.03	12.14	12.05	12.05		0
	50	0	11.96	12.10	12.14	12.19	0-2	0
	50	25	12.10	12.23	12.17	12.23		0
	50	50	12.08	12.19	12.20	12.17		0
	100	0	12.06	12.18	12.10	12.20		0
64QAM	1	0	12.00	11.98	12.21	11.97	0-2	0
	1	50	11.92	12.04	12.16	12.22		0
	1	99	11.76	12.12	11.95	11.91		0
	50	0	11.96	12.13	12.16	12.20	0-3	0
	50	25	12.11	12.23	12.20	12.26		0
	50	50	12.09	12.20	12.23	12.21		0
	100	0	12.09	12.19	12.15	12.21		0
256QAM	1	0	11.98	11.91	12.02	12.15	0-5	0
	1	50	11.98	11.99	12.26	12.12		0
	1	99	11.96	12.12	12.09	12.04		0
	50	0	11.93	12.05	12.07	12.09		0
	50	25	12.01	12.14	12.16	12.16		0
	50	50	11.99	12.12	12.16	12.17		0
	100	0	11.98	12.12	12.07	12.16		0

Table 8-58
LTE Band 48 Antenna 2 Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56207	3646.7	QPSK	50	0	LTE B48	20	56009	3626.9	QPSK	50	50	12.61	12.42

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-59
LTE Band 48 Measured P_{Limit} Antenna 3a - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	11.92	11.76	11.65	11.86	0	0
	1	50	**11.93**	11.80	11.92	11.92		0
	1	99	11.92	11.73	11.64	11.84		0
	50	0	**11.99**	11.86	11.70	11.70	0-1	0
	50	25	11.85	11.83	11.95	11.79		0
	50	50	11.83	11.81	11.80	11.98		0
	100	0	11.82	11.79	11.78	11.79		0
16QAM	1	0	11.95	11.90	11.95	11.78	0-1	0
	1	50	12.01	12.09	12.02	11.85		0
	1	99	12.00	11.94	11.93	11.80		0
	50	0	11.85	11.82	11.83	11.70	0-2	0
	50	25	11.90	11.86	11.82	11.70		0
	50	50	11.89	11.89	11.82	11.69		0
	100	0	11.91	11.82	11.78	11.69		0
64QAM	1	0	11.93	11.89	11.95	11.81	0-2	0
	1	50	11.99	12.10	12.04	11.86		0
	1	99	12.00	11.99	11.96	11.78		0
	50	0	11.85	11.79	11.80	11.68	0-3	0
	50	25	11.88	11.83	11.82	11.69		0
	50	50	11.91	11.86	11.82	11.71		0
	100	0	11.89	11.83	11.81	11.71		0
256QAM	1	0	12.00	11.95	11.98	11.83	0-5	0
	1	50	12.06	12.05	11.95	11.86		0
	1	99	12.02	11.98	12.00	11.78		0
	50	0	11.86	11.82	11.81	11.70		0
	50	25	11.89	11.83	11.81	11.70		0
	50	50	11.92	11.86	11.82	11.69		0
	100	0	11.89	11.85	11.81	11.70		0

Table 8-60
LTE Band 48 Antenna 3a Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56640	3690.0	QPSK	1	0	LTE B48	20	56442	3670.2	QPSK	1	99	11.80	11.86

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-61
LTE Band 48 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	13.03	13.00	12.94	13.03	0	0
	1	50	**13.10**	12.98	12.92	13.06		0
	1	99	13.00	12.87	12.87	13.00		0
	50	0	13.12	13.07	13.02	13.08	0-1	0
	50	25	13.14	13.04	13.08	13.07		0
	50	50	**13.15**	12.99	13.06	13.12		0
	100	0	13.09	12.99	13.06	13.05		0
16QAM	1	0	13.08	13.00	13.14	13.14	0-1	0
	1	50	13.29	13.14	13.15	13.25		0
	1	99	13.18	12.93	13.02	13.06		0
	50	0	13.15	13.12	13.02	13.06	0-2	0
	50	25	13.22	13.06	13.06	13.10		0
	50	50	13.17	13.01	13.07	13.12		0
	100	0	13.18	13.04	12.99	13.07		0
64QAM	1	0	12.84	13.09	12.98	13.08	0-2	0
	1	50	13.04	13.11	12.92	13.09		0
	1	99	12.99	12.79	12.83	12.88		0
	50	0	13.14	13.09	12.95	13.06	0-3	0
	50	25	13.17	13.06	13.03	13.08		0
	50	50	13.15	12.98	13.07	13.11		0
	100	0	13.14	12.96	12.97	13.10		0
256QAM	1	0	12.64	12.70	12.74	12.74	0-5	0
	1	50	12.78	12.75	12.86	12.59		0
	1	99	12.75	12.67	12.78	12.78		0
	50	0	12.87	12.89	12.79	12.82		0
	50	25	12.90	12.92	12.83	12.86		0
	50	50	12.88	12.86	12.86	12.85		0
	100	0	12.89	12.91	12.78	12.79		0

Table 8-62
LTE Band 48 Antenna 4 Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56207	3646.7	QPSK	50	50	LTE B48	20	56405	3666.5	QPSK	50	0	11.97	12.07

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Notes:

1. This device supports uplink carrier aggregation for LTE CA_7C, LTE CA_5B, LTE CA_41C and LTE CA_48C with a maximum of two component carriers. For intra-band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

Figure 8-2
Power Measurement Setup

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8.3 NR Plimit Conducted Powers

Notes: Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths was not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

8.3.1 NR Band n71

Table 8-63
NR Band n71 Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	136100 (680.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.04	0	0.0
	1	53	**20.13**		0.0
	1	104	19.98		0.0
	50	0	19.99	0-1	0.0
	50	28	**20.11**	0	0.0
	50	56	20.00	0-1	0.0
	100	0	20.08		0.0
DFT-s-OFDM 16QAM	1	1	19.91	0-1	0.0
CP-OFDM QPSK	1	1	19.96	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-64
NR Band n71 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.21	0	0.0
	1	53	**20.58**		0.0
	1	104	20.32		0.0
	50	0	20.34	0-1	0.0
	50	28	**20.57**	0	0.0
	50	56	20.45	0-1	0.0
	100	0	20.42		0.0
DFT-s-OFDM 16QAM	1	1	20.29	0-1	0.0
CP-OFDM QPSK	1	1	20.01	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.2 NR Band n12

Table 8-65
NR Band n12 Measured P_{Limit} Antenna 2 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**19.43**	0	0.0
	1	40	19.38		0.0
	1	77	19.36		0.0
	36	0	**19.42**	0-1	0.0
	36	22	19.39	0	0.0
	36	43	19.37	0-1	0.0
	75	0	19.37		0.0
DFT-s-OFDM 16QAM	1	1	19.31	0-1	0.0
CP-OFDM QPSK	1	1	19.43	0-1.5	0.0

Table 8-66
NR Band n12 Measured P_{Limit} Antenna 4 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**18.31**	0	0.0
	1	40	18.25		0.0
	1	77	18.22		0.0
	36	0	**18.26**	0-1	0.0
	36	22	18.25	0	0.0
	36	43	18.22	0-1	0.0
	75	0	18.25		0.0
DFT-s-OFDM 16QAM	1	1	18.30	0-1	0.0
CP-OFDM QPSK	1	1	18.34	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.3 NR Band n14

Table 8-67
NR Band n14 Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.39	0	0.0
	1	26	**19.45**		0.0
	1	50	19.40		0.0
	25	0	19.36	0-1	0.0
	25	14	**19.43**	0	0.0
	25	27	19.39	0-1	0.0
	50	0	19.40		0.0
DFT-s-OFDM 16QAM	1	1	19.67	0-1	0.0
CP-OFDM QPSK	1	1	19.33	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-68
NR Band n14 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**20.36**	0	0.0
	1	26	20.30		0.0
	1	50	20.28		0.0
	25	0	**20.11**	0-1	0.0
	25	14	20.06	0	0.0
	25	27	20.00	0-1	0.0
	50	0	20.00		0.0
DFT-s-OFDM 16QAM	1	1	19.94	0-1	0.0
CP-OFDM QPSK	1	1	20.13	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.4 NR Band n26

Table 8-69
NR Band n26 Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.37	0	0.0
	1	53	**19.47**		0.0
	1	104	19.38		0.0
	50	0	19.39	0-1	0.0
	50	28	**19.44**	0	0.0
	50	56	19.36	0-1	0.0
	100	0	19.43		0.0
DFT-s-OFDM 16QAM	1	1	19.34	0-1	0.0
CP-OFDM QPSK	1	1	19.46	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-70
NR Band n26 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.65	0	0.0
	1	53	**19.76**		0.0
	1	104	19.69		0.0
	50	0	19.65	0-1	0.0
	50	28	**19.71**	0	0.0
	50	56	19.63	0-1	0.0
	100	0	19.70		0.0
DFT-s-OFDM 16QAM	1	1	19.73	0-1	0.0
CP-OFDM QPSK	1	1	19.75	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.5 NR Band n5

Table 8-71
NR Band n5 Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**19.33**	0	0.0
	1	53	19.21		0.0
	1	104	19.18		0.0
	50	0	**19.31**	0-1	0.0
	50	28	19.26	0	0.0
	50	56	19.23	0-1	0.0
	100	0	19.28		0.0
DFT-s-OFDM 16QAM	1	1	19.29	0-1	0.0
CP-OFDM QPSK	1	1	19.32	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-72
NR Band n5 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**18.91**	0	0.0
	1	53	18.87		0.0
	1	104	18.79		0.0
	50	0	**18.84**	0-1	0.0
	50	28	18.78	0	0.0
	50	56	18.79	0-1	0.0
	100	0	18.77		0.0
DFT-s-OFDM 16QAM	1	1	18.70	0-1	0.0
CP-OFDM QPSK	1	1	18.88	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.6 NR Band n70

Table 8-73
NR Band n70 Measured P_{Limit} Antenna 1b - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**12.43**	0	0.0
	1	40	12.13		0.0
	1	77	12.16		0.0
	36	0	12.08	0-1	0.0
	36	22	**12.42**	0	0.0
	36	43	12.12	0-1	0.0
	75	0	12.40		0.0
DFT-s-OFDM 16QAM	1	1	11.85	0-1	0.0
CP-OFDM QPSK	1	1	12.16	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-74
NR Band n70 Measured P_{Limit} Antenna 2 - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**14.58**	0	0.0
	1	40	14.48		0.0
	1	77	14.56		0.0
	36	0	**14.54**	0-1	0.0
	36	22	14.52	0	0.0
	36	43	14.49	0-1	0.0
	75	0	14.51		0.0
DFT-s-OFDM 16QAM	1	1	14.48	0-1	0.0
CP-OFDM QPSK	1	1	14.60	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-75
NR Band n70 Measured P_{Limit} Antenna 3b - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.14	0	0.0
	1	40	13.15		0.0
	1	77	**13.18**		0.0
	36	0	13.02	0-1	0.0
	36	22	**13.07**	0	0.0
	36	43	13.04	0-1	0.0
	75	0	12.95		0.0
DFT-s-OFDM 16QAM	1	1	13.10	0-1	0.0
CP-OFDM QPSK	1	1	13.18	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-76
NR Band n70 Measured P_{Limit} Antenna 4 - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**15.37**	0	0.0
	1	40	15.31		0.0
	1	77	15.32		0.0
	36	0	**15.29**	0-1	0.0
	36	22	15.23	0	0.0
	36	43	15.26	0-1	0.0
	75	0	15.24		0.0
DFT-s-OFDM 16QAM	1	1	15.25	0-1	0.0
CP-OFDM QPSK	1	1	15.20	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.7 NR Band n66

Table 8-77
NR Band n66 Measured P_{Limit} Antenna 1b - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.99	0	0.0
	1	108	11.96		0.0
	1	214	**12.07**		0.0
	108	0	**12.13**	0-1	0.0
	108	54	12.02	0	0.0
	108	108	12.09	0-1	0.0
	216	0	12.04		0.0
DFT-s-OFDM 16QAM	1	1	12.09	0-1	0.0
CP-OFDM QPSK	1	1	11.99	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-78
NR Band n66 Measured P_{Limit} Antenna 2 - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.20	0	0.0
	1	108	**14.25**		0.0
	1	214	14.24		0.0
	108	0	**14.27**	0-1	0.0
	108	54	14.21	0	0.0
	108	108	14.26	0-1	0.0
	216	0	14.23		0.0
DFT-s-OFDM 16QAM	1	1	14.25	0-1	0.0
CP-OFDM QPSK	1	1	14.31	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-79
NR Band n66 Measured P_{Limit} Antenna 3b - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.85	0	0.0
	1	108	12.96		0.0
	1	214	**13.05**		0.0
	108	0	**13.06**	0-1	0.0
	108	54	13.01	0	0.0
	108	108	13.02	0-1	0.0
	216	0	13.04		0.0
DFT-s-OFDM 16QAM	1	1	12.57	0-1	0.0
CP-OFDM QPSK	1	1	12.66	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-80
NR Band n66 Measured P_{Limit} Antenna 4 - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.55	0	0.0
	1	108	**14.58**		0.0
	1	214	14.56		0.0
	108	0	**14.63**	0-1	0.0
	108	54	14.59	0	0.0
	108	108	14.62	0-1	0.0
	216	0	14.57		0.0
DFT-s-OFDM 16QAM	1	1	14.52	0-1	0.0
CP-OFDM QPSK	1	1	14.58	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.8 NR Band n25

Table 8-81
NR Band n25 Measured P_{Limit} Antenna 1b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.05	0	0.0
	1	108	**11.28**		0.0
	1	214	11.27		0.0
	108	0	11.19	0-1	0.0
	108	54	11.16	0	0.0
	108	108	**11.25**	0-1	0.0
	216	0	11.21		0.0
DFT-s-OFDM 16QAM	1	1	11.16	0-1	0.0
CP-OFDM QPSK	1	1	11.10	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-82
NR Band n25 Measured P_{Limit} Antenna 2 - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**14.47**	0	0.0
	1	108	14.43		0.0
	1	214	14.37		0.0
	108	0	14.44	0-1	0.0
	108	54	14.43	0	0.0
	108	108	**14.46**	0-1	0.0
	216	0	14.45		0.0
DFT-s-OFDM 16QAM	1	1	14.30	0-1	0.0
CP-OFDM QPSK	1	1	14.52	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-83
NR Band n25 Measured P_{Limit} Antenna 3b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**12.13**	0	0.0
	1	108	12.06		0.0
	1	214	11.98		0.0
	108	0	12.10	0-1	0.0
	108	54	**12.12**	0	0.0
	108	108	12.04	0-1	0.0
	216	0	12.08		0.0
DFT-s-OFDM 16QAM	1	1	12.30	0-1	0.0
CP-OFDM QPSK	1	1	12.23	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-84
NR Band n25 Measured P_{Limit} Antenna 4 - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.52	0	0.0
	1	108	**13.60**		0.0
	1	214	13.46		0.0
	108	0	13.50	0-1	0.0
	108	54	**13.55**	0	0.0
	108	108	13.50	0-1	0.0
	216	0	13.54		0.0
DFT-s-OFDM 16QAM	1	1	13.63	0-1	0.0
CP-OFDM QPSK	1	1	13.69	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.9 NR Band n30

Table 8-85
NR Band n30 Measured P_{Limit} Antenna 1b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**11.87**	0	0.0
	1	26	11.81		0.0
	1	50	11.75		0.0
	25	0	11.80	0-1	0.0
	25	14	**11.84**	0	0.0
	25	27	11.76	0-1	0.0
	50	0	11.82		0.0
DFT-s-OFDM 16QAM	1	1	11.76	0-1	0.0
CP-OFDM QPSK	1	1	11.73	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-86
NR Band n30 Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**13.05**	0	0.0
	1	26	13.02		0.0
	1	50	12.97		0.0
	25	0	**13.00**	0-1	0.0
	25	14	12.95	0	0.0
	25	27	12.91	0-1	0.0
	50	0	12.93		0.0
DFT-s-OFDM 16QAM	1	1	13.27	0-1	0.0
CP-OFDM QPSK	1	1	12.95	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-87
NR Band n30 Measured P_{Limit} Antenna 3b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.65	0	0.0
	1	26	12.77		0.0
	1	50	**12.79**		0.0
	25	0	12.71	0-1	0.0
	25	14	**12.74**	0	0.0
	25	27	12.72	0-1	0.0
	50	0	12.69		0.0
DFT-s-OFDM 16QAM	1	1	12.73	0-1	0.0
CP-OFDM QPSK	1	1	12.67	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-88
NR Band n30 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.25	0	0.0
	1	26	**14.27**		0.0
	1	50	14.23		0.0
	25	0	**14.16**	0-1	0.0
	25	14	14.15	0	0.0
	25	27	14.12	0-1	0.0
	50	0	14.13		0.0
DFT-s-OFDM 16QAM	1	1	14.02	0-1	0.0
CP-OFDM QPSK	1	1	14.14	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.10 NR Band n7

Table 8-89
NR Band n7 Measured P_{Limit} Antenna 1b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**11.47**	0	0.0
	1	108	11.41		0.0
	1	214	11.33		0.0
	108	0	11.42	0-1	0.0
	108	54	11.34	0	0.0
	108	108	**11.45**	0-1	0.0
	216	0	11.43		0.0
DFT-s-OFDM 16QAM	1	1	11.66	0-1	0.0
CP-OFDM QPSK	1	1	11.45	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-90
NR Band n7 Measured P_{Limit} Antenna 2 - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**11.14**	0	0.0
	1	108	11.12		0.0
	1	214	11.08		0.0
	108	0	**11.23**	0-1	0.0
	108	54	11.07	0	0.0
	108	108	11.20	0-1	0.0
	216	0	11.13		0.0
DFT-s-OFDM 16QAM	1	1	11.17	0-1	0.0
CP-OFDM QPSK	1	1	11.12	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-91
NR Band n7 Measured P_{Limit} Antenna 3b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**11.17**	0	0.0
	1	108	11.14		0.0
	1	214	10.97		0.0
	108	0	11.15	0-1	0.0
	108	54	11.10	0	0.0
	108	108	**11.16**	0-1	0.0
	216	0	11.13		0.0
DFT-s-OFDM 16QAM	1	1	11.23	0-1	0.0
CP-OFDM QPSK	1	1	11.07	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-92
NR Band n7 Measured P_{Limit} Antenna 4 - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.87	0	0.0
	1	108	10.88		0.0
	1	214	**10.91**		0.0
	108	0	10.87	0-1	0.0
	108	54	10.80	0	0.0
	108	108	**10.89**	0-1	0.0
	216	0	10.85		0.0
DFT-s-OFDM 16QAM	1	1	10.94	0-1	0.0
CP-OFDM QPSK	1	1	10.88	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.11 NR Band n41

Table 8-93
NR Band n41 Measured P_{Limit} Antenna 1b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.76	0	0.0
	1	137	**12.87**		0.0
	1	271	12.81		0.0
	135	0	**12.96**	0-1	0.0
	135	69	12.92	0	0.0
	135	138	12.91	0-1	0.0
	270	0	12.86		0.0
DFT-s-OFDM 16QAM	1	1	12.81	0-1	0.0
CP-OFDM QPSK	1	1	12.72	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-94
NR Band n41 Measured P_{Limit} Antenna 2 - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.82	0	0.0
	1	137	**12.22**		0.0
	1	271	12.15		0.0
	135	0	12.17	0-1	0.0
	135	69	**12.21**	0	0.0
	135	138	12.14	0-1	0.0
	270	0	12.13		0.0
DFT-s-OFDM 16QAM	1	1	11.76	0-1	0.0
CP-OFDM QPSK	1	1	12.10	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-95
NR Band n41 Measured P_{Limit} Antenna 3b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.50	0	0.0
	1	137	**12.64**		0.0
	1	271	12.55		0.0
	135	0	12.58	0-1	0.0
	135	69	**12.65**	0	0.0
	135	138	12.58	0-1	0.0
	270	0	12.63		0.0
DFT-s-OFDM 16QAM	1	1	12.65	0-1	0.0
CP-OFDM QPSK	1	1	12.75	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-96
NR Band n41 Measured P_{Limit} Antenna 4 - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.31	0	0.0
	1	137	**10.62**		0.0
	1	271	10.48		0.0
	135	0	**10.58**	0-1	0.0
	135	69	10.50	0	0.0
	135	138	10.54	0-1	0.0
	270	0	10.53		0.0
DFT-s-OFDM 16QAM	1	1	10.41	0-1	0.0
CP-OFDM QPSK	1	1	10.31	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.12 NR Band n48

Table 8-97
NR Band n48 Measured P_{Limit} Antenna 1a - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	9.82	9.93	9.74	0	0.0
	1	53	9.98	9.82	9.63		0.0
	1	104	**10.00**	9.86	9.73		0.0
	50	0	9.89	9.81	9.70	0-1	0.0
	50	28	9.91	9.72	9.59	0	0.0
	50	56	**9.96**	9.74	9.57	0-1	0.0
	100	0	9.93	9.76	9.66		0.0
DFT-s-OFDM 16QAM	1	1	9.73	9.98	9.92	0-1	0.0
CP-OFDM QPSK	1	1	9.66	9.75	9.82	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-98
NR Band n48 Measured P_{Limit} Antenna 2 - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	9.65	9.81	9.78	0	0.0
	1	53	9.82	9.83	9.88		0.0
	1	104	9.92	**10.18**	9.68		0.0
	50	0	9.70	**9.90**	9.84	0-1	0.0
	50	28	9.76	9.79	9.75	0	0.0
	50	56	9.81	9.80	9.66	0-1	0.0
	100	0	9.79	9.85	9.71		0.0
DFT-s-OFDM 16QAM	1	1	9.62	9.95	10.04	0-1	0.0
CP-OFDM QPSK	1	1	9.68	9.84	9.72	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-99
NR Band n48 Measured P_{Limit} Antenna 3a - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	8.98	8.95	8.64	0	0.0
	1	53	9.11	8.81	8.62		0.0
	1	104	**9.14**	8.79	8.67		0.0
	50	0	**9.07**	8.82	8.64	0-1	0.0
	50	28	9.03	8.75	8.51	0	0.0
	50	56	9.02	8.71	8.48	0-1	0.0
	100	0	9.05	8.75	8.52		0.0
DFT-s-OFDM 16QAM	1	1	8.84	9.01	8.82	0-1	0.0
CP-OFDM QPSK	1	1	9.15	8.87	8.63	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-100
NR Band n48 Measured P_{Limit} Antenna 4 - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	10.21	10.16	10.10	0	0.0
	1	53	10.25	10.05	9.95		0.0
	1	104	**10.35**	10.01	10.09		0.0
	50	0	**10.20**	10.08	9.88	0-1	0.0
	50	28	10.13	9.97	9.83	0	0.0
	50	56	10.10	9.90	9.80	0-1	0.0
	100	0	10.11	9.98	9.81		0.0
DFT-s-OFDM 16QAM	1	1	10.46	10.30	9.95	0-1	0.0
CP-OFDM QPSK	1	1	10.44	10.14	9.97	0-1	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.1 NR Band n77 C-Band

Table 8-101
NR Band n77 C-Band Measured P_{Limit} Antenna 1a - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.95	10.06	0	0.0
	1	137	**10.15**	10.00		0.0
	1	271	9.91	9.77		0.0
	135	0	10.10	10.11	0-1	0.0
	135	69	**10.13**	9.99	0	0.0
	135	138	9.98	9.87	0-1	0.0
	270	0	10.07	10.04		0.0
DFT-s-OFDM 16QAM	1	1	10.11	10.19	0-1	0.0
CP-OFDM QPSK	1	1	10.01	10.13	0-1.5	0.0

Table 8-102
NR Band n77 C-Band Measured P_{Limit} Antenna 2 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.26	**9.29**	0	0.0
	1	137	9.12	9.26		0.0
	1	271	8.89	9.13		0.0
	135	0	9.27	**9.30**	0-1	0.0
	135	69	9.20	9.05	0	0.0
	135	138	9.08	9.12	0-1	0.0
	270	0	9.28	9.21		0.0
DFT-s-OFDM 16QAM	1	1	9.20	9.18	0-1	0.0
CP-OFDM QPSK	1	1	9.21	9.15	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-103
NR Band n77 C-Band Measured P_{Limit} Antenna 3a - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	**8.93**	8.88	0	0.0
	1	137	8.90	8.87		0.0
	1	271	8.86	8.77		0.0
	135	0	**8.95**	8.78	0-1	0.0
	135	69	8.89	8.76	0	0.0
	135	138	8.82	8.69	0-1	0.0
	270	0	8.88	8.75		0.0
DFT-s-OFDM 16QAM	1	1	8.99	8.92	0-1	0.0
CP-OFDM QPSK	1	1	8.95	8.89	0-1.5	0.0

Table 8-104
NR Band n77 C-Band Measured P_{Limit} Antenna 4 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.97	9.89	0	0.0
	1	137	9.98	**10.02**		0.0
	1	271	9.88	9.91		0.0
	135	0	10.01	9.99	0-1	0.0
	135	69	10.02	**10.07**	0	0.0
	135	138	9.92	9.95	0-1	0.0
	270	0	9.98	10.00		0.0
DFT-s-OFDM 16QAM	1	1	9.83	9.98	0-1	0.0
CP-OFDM QPSK	1	1	9.95	10.04	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.2 NR Band n77 DoD

Table 8-105
NR Band n77 DoD Measured P_{Limit} Antenna 1a - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.97	0	0.0
	1	137	**10.19**		0.0
	1	271	10.13		0.0
	135	0	**10.16**	0-1	0.0
	135	69	10.11	0	0.0
	135	138	10.09	0-1	0.0
	270	0	10.13		0.0
DFT-s-OFDM 16QAM	1	1	9.71	0-1	0.0
CP-OFDM QPSK	1	1	9.97	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-106
NR Band n77 DoD Measured P_{Limit} Antenna 2 - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.22	0	0.0
	1	137	**9.27**		0.0
	1	271	9.23		0.0
	135	0	9.24	0-1	0.0
	135	69	9.25	0	0.0
	135	138	**9.28**	0-1	0.0
	270	0	9.23		0.0
DFT-s-OFDM 16QAM	1	1	9.21	0-1	0.0
CP-OFDM QPSK	1	1	9.15	0-1.5	0.0

Table 8-107
NR Band n77 DoD Measured P_{Limit} Antenna 3a - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**9.05**	0	0.0
	1	137	9.00		0.0
	1	271	8.94		0.0
	135	0	9.05	0-1	0.0
	135	69	8.94	0	0.0
	135	138	**9.12**	0-1	0.0
	270	0	8.99		0.0
DFT-s-OFDM 16QAM	1	1	9.08	0-1	0.0
CP-OFDM QPSK	1	1	8.94	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-108
NR Band n77 DoD Measured P_{Limit} Antenna 4 - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.13	0	0.0
	1	137	10.17		0.0
	1	271	**10.25**		0.0
	135	0	**10.26**	0-1	0.0
	135	69	10.24	0	0.0
	135	138	10.22	0-1	0.0
	270	0	10.23		0.0
DFT-s-OFDM 16QAM	1	1	10.18	0-1	0.0
CP-OFDM QPSK	1	1	10.07	0-1.5	0.0

Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

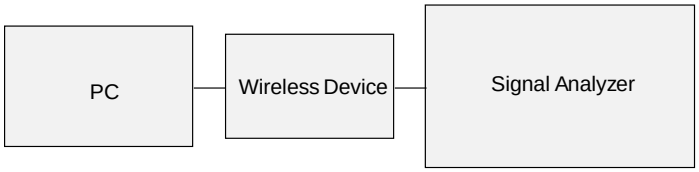


Figure 8-3
Power Measurement Setup

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.4 WLAN Maximum Time-Averaged Conducted Powers

Table 8-109
2.4 GHz WLAN Maximum Average RF Power - Antenna 1a, - Variant 1

2.4GHz WIFI (20MHz 802.11b SISO		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	11.02
2437	6	10.85
2462	11	11.10
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	10.65
2437	6	10.86
2462	11	10.62
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	10.60
2437	6	10.80
2462	11	10.59
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	10.54
2437	6	10.73
2462	11	10.75

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-110
2.4 GHz WLAN Maximum Average RF Power - Antenna 1a, - Variant 2

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.83
2437	6	11.05
2462	11	11.09
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.77
2437	6	10.70
2462	11	10.68
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.68
2437	6	10.69
2462	11	10.79
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.82
2437	6	10.65
2462	11	10.68

Table 8-111
2.4 GHz WLAN Maximum Average RF Power - Antenna 3a, - Variant 1

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.34
2437	6	10.31
2462	11	10.24
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.06
2437	6	10.10
2462	11	10.15
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.06
2437	6	10.03
2462	11	10.00
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.11
2437	6	10.03
2462	11	9.85

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-112
2.4 GHz WLAN Maximum Average RF Power - Antenna 3a, - Variant 2

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.16
2437	6	10.26
2462	11	10.10
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.04
2437	6	10.16
2462	11	10.01
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.04
2437	6	9.94
2462	11	10.04
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	9.95
2437	6	10.07
2462	11	10.05

Table 8-113
5 GHz WLAN Maximum Average RF Power - Antenna 5T, - Variant 1

5GHz WIFI (40MHz 802.11n SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.61
	5230	46	15.75
UNII-2A	5270	54	15.85
	5310	62	15.44
5GHz WIFI (40MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.91
	5230	46	15.70
UNII-2A	5270	54	15.71
	5310	62	15.21
5GHz WIFI (40MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.99
	5230	46	15.33
UNII-2A	5270	54	15.50
	5310	62	15.32

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-114
5 GHz WLAN Maximum Average RF Power - Antenna 5T, - Variant 2

5GHz WIFI (40MHz 802.11n SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	14.65
	5230	46	15.65
UNII-2A	5270	54	15.87
	5310	62	15.49

5GHz WIFI (40MHz 802.11ac SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	14.33
	5230	46	15.61
UNII-2A	5270	54	15.81
	5310	62	15.69

5GHz WIFI (40MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	13.97
	5230	46	15.15
UNII-2A	5270	54	15.25
	5310	62	15.18

Table 8-115
5 GHz WLAN Maximum Average RF Power - Antenna 5T, - Variant 1

5GHz WIFI (80MHz 802.11ac SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-2C	5530	106	15.19
	5610	122	15.13
	5690	138	14.57
UNII-3	5775	155	15.08

5GHz WIFI (80MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-2C	5530	106	13.20
	5610	122	14.25
	5690	138	13.85
UNII-3	5775	155	14.10

Table 8-116
5 GHz WLAN Maximum Average RF Power - Antenna 5T, - Variant 2

5GHz WIFI (80MHz 802.11ac SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-2C	5530	106	14.99
	5610	122	14.98
	5690	138	14.42
UNII-3	5775	155	14.87

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.35
	5610	122	14.15
	5690	138	13.96
UNII-3	5775	155	13.99

Table 8-117
5 GHz WLAN Maximum Average RF Power - Antenna 3b, - Variant 1

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.90
UNII-2A	5290	58	10.94
UNII-2C	5530	106	9.43
	5610	122	9.48
	5690	138	9.36
UNII-3	5775	155	9.64
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.78
UNII-2A	5290	58	9.90
UNII-2C	5530	106	8.45
	5610	122	8.39
	5690	138	8.04
UNII-3	5775	155	8.40

Table 8-118
5 GHz WLAN Maximum Average RF Power - Antenna 3b, - Variant 2

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.85
UNII-2A	5290	58	10.90
UNII-2C	5530	106	9.44
	5610	122	9.48
	5690	138	9.36
UNII-3	5775	155	9.40
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.20
UNII-2A	5290	58	9.35
UNII-2C	5530	106	8.20
	5610	122	8.25
	5690	138	8.10
UNII-3	5775	155	8.50

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-119
5 GHz WLAN Maximum Average RF Power - Antenna 1b, - Variant 1

5GHz WIFI (80MHz 802.11ac SISO)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	9.74
UNII-2A	5290	58	9.78
UNII-2C	5530	106	9.26
	5610	122	9.97
	5690	138	9.62
UNII-3	5775	155	8.95
5GHz WIFI (80MHz 802.11ax SISO)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	9.25
UNII-2A	5290	58	9.35
UNII-2C	5530	106	8.65
	5610	122	8.70
	5690	138	8.50
UNII-3	5775	155	8.40

Table 8-120
5 GHz WLAN Maximum Average RF Power - Antenna 1b, - Variant 2

5GHz WIFI (80MHz 802.11ac SISO)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	9.94
UNII-2A	5290	58	10.06
UNII-2C	5530	106	9.47
	5610	122	9.96
	5690	138	9.36
UNII-3	5775	155	8.82
5GHz WIFI (80MHz 802.11ax SISO)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	9.39
UNII-2A	5290	58	9.40
UNII-2C	5530	106	8.91
	5610	122	8.80
	5690	138	8.65
UNII-3	5775	155	8.50

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 8-121
6 GHz WLAN Maximum Average RF Power - Antenna 5T, - Variant 1

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	14.56
	6345	79	13.67
UNII-6	6505	111	11.87
UNII-7	6665	143	13.22
UNII-8	6985	207	11.43

Table 8-122
6 GHz WLAN Maximum Average RF Power - Antenna 5T, - Variant 2

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	14.66
	6345	79	13.60
UNII-6	6505	111	11.89
UNII-7	6665	143	13.14
UNII-8	6985	207	11.59

Table 8-123
6 GHz WLAN Maximum Average RF Power - Antenna 3b, - Variant 1

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	9.87
	6345	79	11.30
UNII-6	6505	111	11.43
UNII-7	6665	143	11.84
UNII-8	6985	207	11.53

Table 8-124
6 GHz WLAN Maximum Average RF Power - Antenna 3b, - Variant 2

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	9.98
	6345	79	11.58
UNII-6	6505	111	11.70
UNII-7	6665	143	11.85
UNII-8	6985	207	11.41

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-125
6 GHz WLAN Maximum Average RF Power - Antenna 1b, - Variant 1

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	8.94
	6345	79	9.65
UNII-6	6505	111	9.45
UNII-7	6665	143	9.13
UNII-8	6985	207	9.26

Table 8-126
6 GHz WLAN Maximum Average RF Power - Antenna 1b, - Variant 2

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	9.37
	6345	79	9.35
UNII-6	6505	111	9.64
UNII-7	6665	143	9.44
UNII-8	6985	207	9.36

8.5 WLAN Reduced Time-Averaged Conducted Powers

Table 8-127
2.4 GHz WLAN Reduced Average RF Power - Antenna 3a, - Variant 1

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	4.15
2437	6	4.11
2462	11	3.98
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	3.50
2437	6	3.79
2462	11	3.43
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	3.58
2437	6	3.82
2462	11	3.48

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-128
2.4 GHz WLAN Reduced Average RF Power - Antenna 3a, - Variant 2

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	4.28
2437	6	4.25
2462	11	4.20
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	3.51
2437	6	3.66
2462	11	3.55
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	3.54
2437	6	3.66
2462	11	3.56

Table 8-129
2.4 GHz WLAN Reduced Average RF Power - Antenna 1a, - Variant 1

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	4.83
2437	6	4.74
2462	11	4.78
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	3.94
2437	6	4.18
2462	11	4.11
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	**Channel**	**Conducted Power [dBm]**
2412	1	4.01
2437	6	4.21
2462	11	4.16

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 8-130
2.4 GHz WLAN Reduced Average RF Power - Antenna 1a, - Variant 2

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	4.90
2437	6	4.67
2462	11	4.80

2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	4.26
2437	6	4.36
2462	11	4.22

2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	4.19
2437	6	4.32
2462	11	4.21

Table 8-131
5 GHz WLAN Reduced Average RF Power - Antenna 5T, - Variant 1

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.77
UNII-2A	5290	58	9.80
UNII-2C	5530	106	8.47
	5610	122	8.41
	5690	138	8.54
UNII-3	5775	155	8.23

5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.51
UNII-2A	5290	58	9.35
UNII-2C	5530	106	8.25
	5610	122	8.31
	5690	138	8.34
UNII-3	5775	155	8.21

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-132
5 GHz WLAN Reduced Average RF Power - Antenna 5T, - Variant 2

5GHz WIFI (80MHz 802.11ac SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.80
UNII-2A	5290	58	9.81
UNII-2C	5530	106	8.51
	5610	122	8.42
	5690	138	8.53
UNII-3	5775	155	8.32

5GHz WIFI (80MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.57
UNII-2A	5290	58	9.64
UNII-2C	5530	106	8.41
	5610	122	8.46
	5690	138	8.47
UNII-3	5775	155	8.21

Table 8-133
5 GHz WLAN Reduced Average RF Power - Antenna 3b, - Variant 1

5GHz WIFI (80MHz 802.11ac SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.94
UNII-2A	5290	58	4.01
UNII-2C	5530	106	2.62
	5610	122	2.64
	5690	138	2.63
UNII-3	5775	155	3.09

5GHz WIFI (80MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.79
UNII-2A	5290	58	3.93
UNII-2C	5530	106	2.78
	5610	122	2.81
	5690	138	2.72
UNII-3	5775	155	2.92

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 8-134
5 GHz WLAN Reduced Average RF Power - Antenna 3b, - Variant 2

5GHz WIFI (80MHz 802.11ac SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	4.24
UNII-2A	5290	58	4.09
UNII-2C	5530	106	2.71
	5610	122	2.66
	5690	138	2.67
UNII-3	5775	155	3.14
5GHz WIFI (80MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
	10	42	3.88
	90	58	3.84
UNII-2C	30	106	2.36
	10	122	2.47
	90	138	2.47
	75	155	2.71

Table 8-135
5 GHz WLAN Reduced Average RF Power - Antenna 1b, - Variant 1

5GHz WIFI (80MHz 802.11ac SISO)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	3.56
UNII-2A	5290	58	3.53
UNII-2C	5530	106	3.02
	5610	122	3.12
	5690	138	2.87
UNII-3	5775	155	2.71
5GHz WIFI (80MHz 802.11ax SISO)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	3.29
UNII-2A	5290	58	3.30
UNII-2C	5530	106	2.98
	5610	122	3.09
	5690	138	3.07
UNII-3	5775	155	2.74

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-136
5 GHz WLAN Reduced Average RF Power - Antenna 1b, - Variant 2

5GHz WIFI (80MHz 802.11ac SISO)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	3.67
UNII-2A	5290	58	3.66
UNII-2C	5530	106	2.93
	5610	122	3.06
	5690	138	2.82
UNII-3	5775	155	2.61
5GHz WIFI (80MHz 802.11ax SISO)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	3.44
UNII-2A	5290	58	3.51
UNII-2C	5530	106	2.44
	5610	122	2.56
	5690	138	2.68
UNII-3	5775	155	2.56

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 8-137
6 GHz WLAN Reduced Average RF Power - Antenna 5T, - Variant 1

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	8.03
	6345	79	6.93
UNII-6	6505	111	5.01
UNII-7	6665	143	6.23
UNII-8	6985	207	4.75

Table 8-138
6 GHz WLAN Reduced Average RF Power - Antenna 5T, - Variant 2

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	8.51
	6345	79	7.59
UNII-6	6505	111	5.79
UNII-7	6665	143	7.07
UNII-8	6985	207	5.50

Table 8-139
6 GHz WLAN Reduced Average RF Power - Antenna 3b, - Variant 1

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	3.65
	6345	79	5.23
UNII-6	6505	111	4.64
UNII-7	6665	143	5.36
UNII-8	6985	207	4.76

Table 8-140
6 GHz WLAN Reduced Average RF Power - Antenna 3b, - Variant 2

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	3.76
	6345	79	5.32
UNII-6	6505	111	4.65
UNII-7	6665	143	5.33
UNII-8	6985	207	4.76

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 8-141
6 GHz WLAN Reduced Average RF Power - Antenna 1b, - Variant 1

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	2.50
	6345	79	2.70
UNII-6	6505	111	2.96
UNII-7	6665	143	3.03
UNII-8	6985	207	4.92

Table 8-142
6 GHz WLAN Reduced Average RF Power - Antenna 1b, - Variant 2

6GHz WIFI (160MHz 802.11ax SISO)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	2.53
	6345	79	2.76
UNII-6	6505	111	3.05
UNII-7	6665	143	3.00
UNII-8	6985	207	4.98

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8.6 WLAN Power Reduction Verification Summary

Table 8-110
WLAN Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 3A	2.4 GHz WLAN	Main Band 3A/3B ON	11	5	10.9	4.9	PASS
	2.4 GHz WLAN	ULCA ON	11	5	10.9	4.81	PASS
Ant 1A	2.4 GHz WLAN	Main Band 1A/1B ON	11.75	5.75	10.87	4.82	PASS
	2.4 GHz WLAN	ULCA ON	11.75	5.75	10.87	4.82	PASS
Ant 3B	5 GHz WLAN	Main Band 3A/3B ON	11	5	8.5	3.8	PASS
	5 GHz WLAN	ULCA ON	11	5	8.5	3.74	PASS
Ant 5T	5 GHz WLAN	Main Band 3A/3B ON	16.75	10.75	14.54	8.56	PASS
	5 GHz WLAN	ULCA ON	16.75	10.75	14.54	8.57	PASS
Ant 1B	5 GHz WLAN	Main Band 1A/1B ON	10.5	4.5	9.3	4.2	PASS
	5 GHz WLAN	ULCA ON	10.5	4.5	9.3	4.6	PASS
Ant 3B	6 GHz WLAN	Main Band 3A/3B ON	10.75	4.75	9.78	3.89	PASS
	6 GHz WLAN	ULCA ON	10.75	4.75	9.78	3.9	PASS
Ant 5T	6 GHz WLAN	Main Band 3A/3B ON	15	9	14.06	8.36	PASS
	6 GHz WLAN	ULCA ON	15	9	14.06	8.58	PASS
Ant 1B	6 GHz WLAN	Main Band 1A/1B ON	9.5	3.5	7.8	1.05	PASS
	6 GHz WLAN	ULCA ON	9.5	3.5	7.8	1.02	PASS

Conducted powers were measured for each mode/band and applied condition. All conducted power measurements were verified to be below the maximum allowed.

Note: Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

8.7 Notes for WLAN

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- The WLAN chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structure to meet the same specifications and functions.
- Two device variants are referenced as Variant 1 and Variant 2 in this report.
- WLAN SAR worst case configuration was spotchecked on Variant 1 and Variant 2.

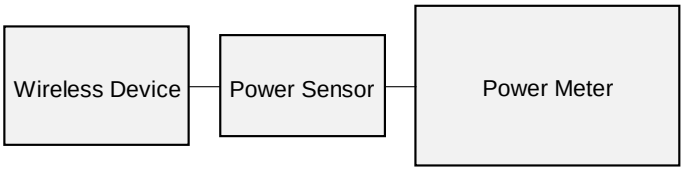


Figure 8-4
Power Measurement Setup

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8.8 Bluetooth Maximum Conducted Powers

Table 8-143
Bluetooth Maximum Average RF Power - Antenna 3a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	10.80	12.023
2441	GFSK	1.0	39	11.25	13.335
2480	GFSK	1.0	78	10.81	12.050

Table 8-144
Bluetooth Maximum Average RF Power - Antenna 3a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	10.82	12.078
2441	GFSK	1.0	39	11.39	13.772
2480	GFSK	1.0	78	10.86	12.190

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-145
Bluetooth Maximum Average RF Power - Antenna 1a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.56	18.030
2441	GFSK	1.0	39	12.57	18.072
2480	GFSK	1.0	78	12.51	17.824

Table 8-146
Bluetooth Maximum Average RF Power - Antenna 1a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.60	18.197
2441	GFSK	1.0	39	12.27	16.866
2480	GFSK	1.0	78	12.32	17.061

8.9 802.15.4 Maximum Conducted Powers

Table 8-147
802.15.4 Maximum Average RF Power - Antenna 3a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	11.39	13.772
2440	O-QPSK	0.25	18	11.67	14.689
2475	O-QPSK	0.25	25	11.36	13.677

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-148
802.15.4 Maximum Average RF Power - Antenna 3a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	12.01	15.885
2440	O-QPSK	0.25	18	11.39	13.772
2475	O-QPSK	0.25	25	11.66	14.655

Table 8-149
802.15.4 Maximum Average RF Power - Antenna 1a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	11.70	14.791
2440	O-QPSK	0.25	18	11.96	15.704
2475	O-QPSK	0.25	25	12.05	16.032

Table 8-150
802.15.4 Maximum Average RF Power - Antenna 1a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	11.90	15.488
2440	O-QPSK	0.25	18	11.69	14.757
2475	O-QPSK	0.25	25	11.76	14.997

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.10 NB UNII Maximum Conducted Powers

Table 8-151
NB UNII-1 Average RF Power - Antenna 5T, - Variant 1

Type	Band	Frequency	Average
HDR - 4	U-NII 1	5162	11.33
		5204	11.43
		5245	11.45

Table 8-152
NB UNII-1 Average RF Power - Antenna 5T, - Variant 2

Type	Band	Frequency	Average
HDR - 4	U-NII 1	5162	11.66
		5204	11.52
		5245	11.34

Table 8-153
NB UNII-1 Average RF Power - Antenna 3b, - Variant 1

Type	Band	Frequency	Average
HDR -4	U-NII 1	5162	10.08
		5204	9.97
		5245	10.28

Table 8-154
NB UNII-1 Average RF Power - Antenna 3b, - Variant 2

Type	Band	Frequency	Average
HDR -4	U-NII 1	5162	10.23
		5204	10.18
		5245	10.27

Table 8-155
NB UNII-1 Average RF Power - Antenna 1b, - Variant 1

Type	Band	Frequency	Average
HDR -4	U-NII 1	5162	9.8
		5204	9.98
		5245	10.01

Table 8-156
NB UNII-1 Average RF Power - Antenna 1b, - Variant 2

Type	Band	Frequency	Average
HDR - 4	U-NII 1	5162	9.8
		5204	9.84
		5245	9.69

Table 8-157

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

NB UNII-3 Average RF Power - Antenna 5T, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 3	5733	13.37
		5789	13.48
		5844	13.49

Table 8-158
NB UNII-3 Average RF Power - Antenna 5T, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 3	5733	13
		5789	12.93
		5844	13.36

Table 8-159
NB UNII-3 Average RF Power - Antenna 3b, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 3	5733	10.88
		5789	10.7
		5844	10.67

Table 8-160
NB UNII-3 Average RF Power - Antenna 3b, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 3	5733	10.69
		5789	10.55
		5844	10.51

Table 8-161
NB UNII-3 Average RF Power - Antenna 1b, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 3	5733	9.87
		5789	9.61
		5844	9.62

Table 8-162
NB UNII-3 Average RF Power - Antenna 1b, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 3	5733	9.88
		5789	9.56
		5844	9.37

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.11 Bluetooth Reduced Conducted Powers

Table 8-163
Bluetooth 4.5 dB Reduced Average RF Power - Antenna 3a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.91	4.909
2441	GFSK	1.0	39	7.19	5.236
2480	GFSK	1.0	78	7.06	5.082

Table 8-164
Bluetooth 4.5 dB Reduced Average RF Power - Antenna 1a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.64	5.808
2441	GFSK	1.0	39	7.79	6.012
2480	GFSK	1.0	78	7.58	5.728

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-165
Bluetooth 4.5 dB Reduced Average RF Power - Antenna 3a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.87	4.864
2441	GFSK	1.0	39	7.09	5.117
2480	GFSK	1.0	78	6.98	4.989

Table 8-166
Bluetooth 4.5 dB Reduced Average RF Power - Antenna 1a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.45	5.559
2441	GFSK	1.0	39	7.72	5.916
2480	GFSK	1.0	78	7.81	6.039

Table 8-167
Bluetooth 7.0 dB Reduced Average RF Power - Antenna 3a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.58	2.871
2441	GFSK	1.0	39	4.65	2.917
2480	GFSK	1.0	78	4.53	2.838

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-168
Bluetooth 7.0 dB Reduced Average RF Power - Antenna 1a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.17	3.289
2441	GFSK	1.0	39	5.25	3.350
2480	GFSK	1.0	78	5.04	3.192

Table 8-169
Bluetooth 7.0 dB Reduced Average RF Power - Antenna 3a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.52	2.831
2441	GFSK	1.0	39	4.71	2.958
2480	GFSK	1.0	78	4.51	2.825

Table 8-170
Bluetooth 7.0 dB Reduced Average RF Power - Antenna 1a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.06	3.206
2441	GFSK	1.0	39	5.20	3.311
2480	GFSK	1.0	78	5.30	3.388

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.12 802.15.4 Reduced Conducted Powers

Table 8-171
802.15.4, 4.5 dB Reduced Average RF Power - Antenna 3a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	6.95	4.955
2440	O-QPSK	0.25	18	6.80	4.786
2475	O-QPSK	0.25	25	6.88	4.875

Table 8-172
802.15.4, 4.5 dB Reduced Average RF Power - Antenna 3a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	7.04	5.058
2440	O-QPSK	0.25	18	6.81	4.797
2475	O-QPSK	0.25	25	7.05	5.070

Table 8-173
802.15.4, 7 dB Reduced Average RF Power - Antenna 3a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	4.74	2.979
2440	O-QPSK	0.25	18	4.29	2.685
2475	O-QPSK	0.25	25	4.38	2.742

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-174
802.15.4, 7 dB Reduced Average RF Power - Antenna 3a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	4.47	2.799
2440	O-QPSK	0.25	18	4.36	2.729
2475	O-QPSK	0.25	25	4.54	2.844

Table 8-175
802.15.4, 4.5 dB Reduced Average RF Power - Antenna 1a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	7.74	5.943
2440	O-QPSK	0.25	18	7.78	5.998
2475	O-QPSK	0.25	25	7.66	5.834

Table 8-176
802.15.4, 4.5 dB Reduced Average RF Power - Antenna 1a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	7.45	5.559
2440	O-QPSK	0.25	18	7.58	5.728
2475	O-QPSK	0.25	25	7.64	5.808

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-177
802.15.4, 7 dB Reduced Average RF Power - Antenna 1a, - Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	5.20	3.311
2440	O-QPSK	0.25	18	5.23	3.334
2475	O-QPSK	0.25	25	5.38	3.451

Table 8-178
802.15.4, 7 dB Reduced Average RF Power - Antenna 1a, - Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	5.05	3.199
2440	O-QPSK	0.25	18	5.04	3.192
2475	O-QPSK	0.25	25	5.10	3.236

8.13 NB UNII Reduced Conducted Powers

Table 8-179
NB UNII-1 Reduced Average RF Power 4.5 dBm Backoff - Antenna 3b, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 1	5162	5.45
		5204	5.48
		5245	5.61

Table 8-180
NB UNII-1 Reduced Average RF Power 4.5 dBm Backoff - Antenna 3b, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 1	5162	6
		5204	6.31
		5245	6.45

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-181
NB UNII-1 Reduced Average RF Power 7.0 dBm Backoff - Antenna 3b, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 1	5162	3.21
		5204	2.96
		5245	3.15

Table 8-182
NB UNII-1 Reduced Average RF Power 7.0 dBm Backoff - Antenna 3b, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 1	5162	2.9
		5204	2.85
		5245	2.95

Table 8-183
NB UNII-1 Reduced Average RF Power 4.5 dBm Backoff - Antenna 1b, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 1	5162	4.24
		5204	4.37
		5245	4.41

Table 8-184
NB UNII-1 Reduced Average RF Power 4.5 dBm Backoff - Antenna 1b, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 1	5162	4.17
		5204	4.15
		5245	4.05

Table 8-185
NB UNII-1 Reduced Average RF Power 7.0 dBm Backoff - Antenna 1b, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 1	5162	3.48
		5204	3.49
		5245	3.45

Table 8-186
NB UNII-1 Reduced Average RF Power 7.0 dBm Backoff - Antenna 1b, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 1	5162	3.33
		5204	3.3
		5245	3.42

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-187
NB UNII-3 Reduced Average RF Power 4.5 dBm Backoff - Antenna 5T, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 3	5733	10.76
		5789	10.83
		5844	10.93

Table 8-188
NB UNII-3 Reduced Average RF Power 4.5 dBm Backoff - Antenna 5T, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 3	5733	10.95
		5789	10.86
		5844	10.68

Table 8-189
NB UNII-3 Reduced Average RF Power 7.0 dBm Backoff - Antenna 5T, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 3	5733	9
		5789	9.13
		5844	9.08

Table 8-190
NB UNII-3 Reduced Average RF Power 7.0 dBm Backoff - Antenna 5T, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 3	5733	8.52
		5789	8.55
		5844	8.62

Table 8-191
NB UNII-3 Reduced Average RF Power 4.5 dBm Backoff - Antenna 3b, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 3	5733	5.26
		5789	5.21
		5844	5.24

Table 8-192
NB UNII-3 Reduced Average RF Power 4.5 dBm Backoff - Antenna 3b, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 3	5733	5.12
		5789	5.1
		5844	5.16

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-193
NB UNII-3 Reduced Average RF Power 7.0 dBm Backoff - Antenna 3b, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 3	5733	3.33
		5789	3.32
		5844	3.39

Table 8-194
NB UNII-3 Reduced Average RF Power 7.0 dBm Backoff - Antenna 3b, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 3	5733	3.23
		5789	3.25
		5844	3.19

Table 8-195
NB UNII-3 Reduced Average RF Power 4.5 dBm Backoff - Antenna 1b, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 3	5733	5.85
		5789	5.73
		5844	5.79

Table 8-196
NB UNII-3 Reduced Average RF Power 4.5 dBm Backoff - Antenna 1b, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 3	5733	5.82
		5789	5.63
		5844	5.56

Table 8-197
NB UNII-3 Reduced Average RF Power 7.0 dBm Backoff - Antenna 1b, - Variant 1

Type	Band	Frequency	Average
BDR	U-NII 3	5733	2.88
		5789	2.39
		5844	2.25

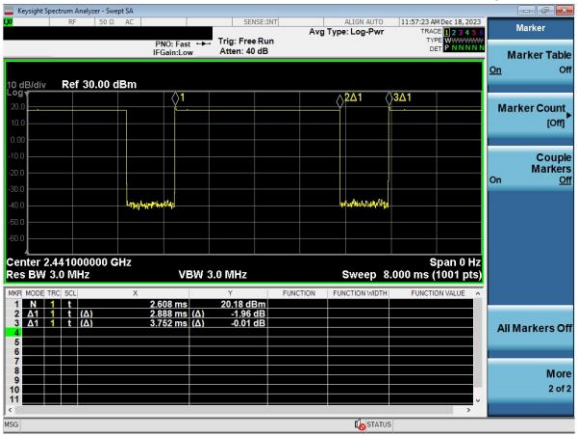
Table 8-198
NB UNII-3 Reduced Average RF Power 7.0 dBm Backoff - Antenna 1b, - Variant 2

Type	Band	Frequency	Average
BDR	U-NII 3	5733	2.91
		5789	2.99
		5844	2.79

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.14 Bluetooth Duty Cycle Plots

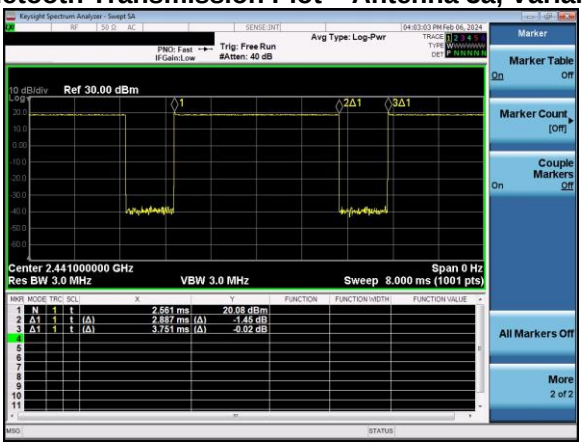
Figure 8-5
Bluetooth Transmission Plot – Antenna 3a, Variant 1



Equation 8-1
Bluetooth Duty Cycle Calculation – Antenna 3a, Variant 1

$$Duty\ Cycle = \frac{Pulse}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

Figure 8-6
Bluetooth Transmission Plot – Antenna 3a, Variant 2

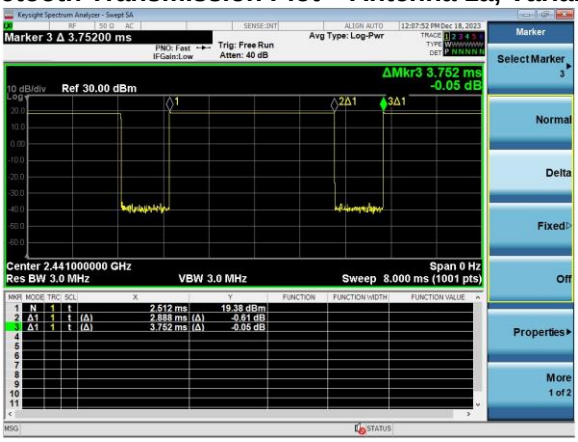


Equation 8-2
Bluetooth Duty Cycle Calculation – Antenna 3a, Variant 2

$$Duty\ Cycle = \frac{Pulse}{Period} * 100\% = \frac{2.887\ ms}{3.751\ ms} * 100\% = 77.0\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

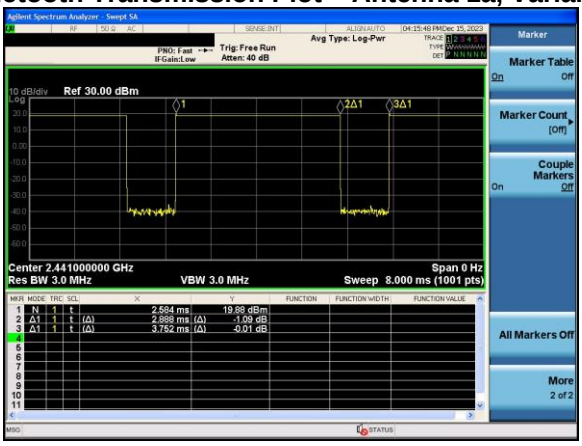
Figure 8-7
Bluetooth Transmission Plot – Antenna 1a, Variant 1



Equation 8-3
Bluetooth Duty Cycle Calculation – Antenna 1a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{2.752\ ms} * 100\% = 77.0\%$$

Figure 8-8
Bluetooth Transmission Plot – Antenna 1a, Variant 2



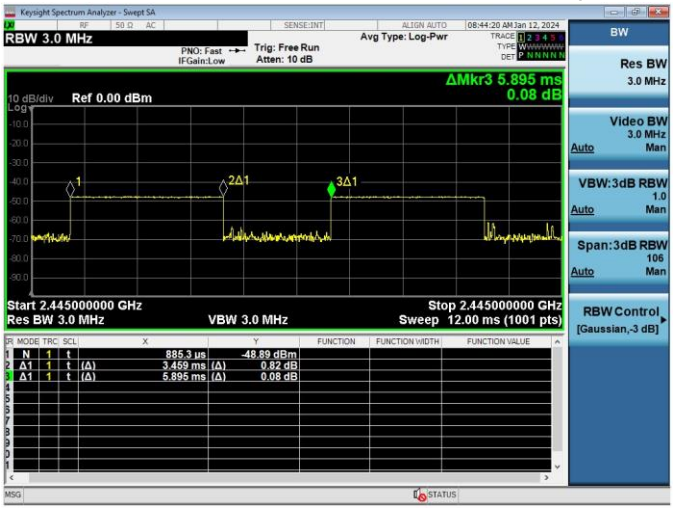
Equation 8-4
Bluetooth Duty Cycle Calculation – Antenna 1a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.572\ ms} * 100\% = 77.0\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8.15 802.15.4 Duty Cycle Plots

Figure 8-9
802.15.4 Transmission Plot – Antenna 1a and 3a, Variant 1



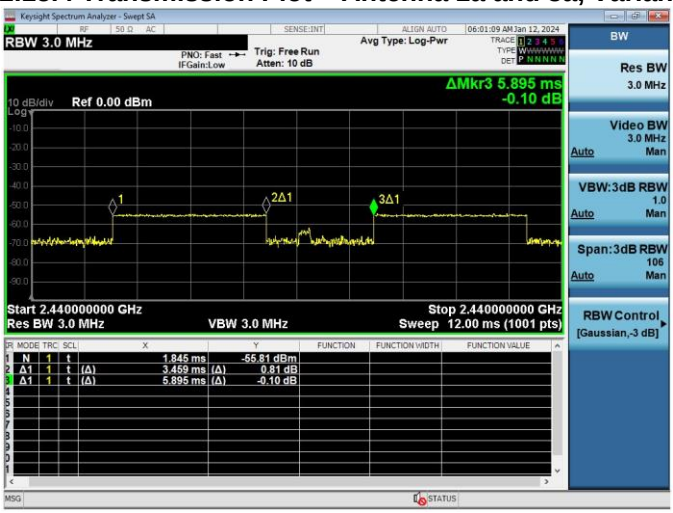
Note: Measured duty cycle as shown above is within the device maximum source-based duty cycle of 60%.

Equation 8-5
802.15.4 Duty Cycle Calculation – Antenna 1a and 3a, Variant 1

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{3.459\ ms}}{\mathbf{5.895\ ms}} * \mathbf{100\%} = \mathbf{58.7\%}$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 8-10
802.15.4 Transmission Plot – Antenna 1a and 3a, Variant 2



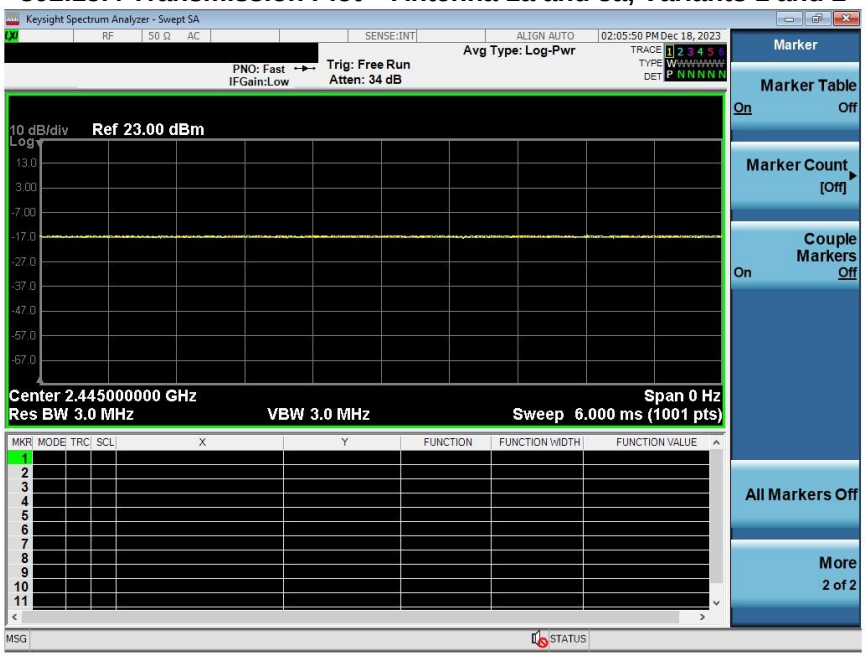
Note: Measured duty cycle as shown above is within the device maximum source-based duty cycle of 60%.

Equation 8-6
802.15.4 Duty Cycle Calculation – Antenna 1a and 3a, Variant 2

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{3.459\ ms}}{\mathbf{5.895\ ms}} * \mathbf{100\%} = \mathbf{58.7\%}$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 8-11
802.15.4 Transmission Plot – Antenna 1a and 3a, Variants 1 and 2



Note: Test mode measured duty cycle for 802.15.4 during SAR measurement.

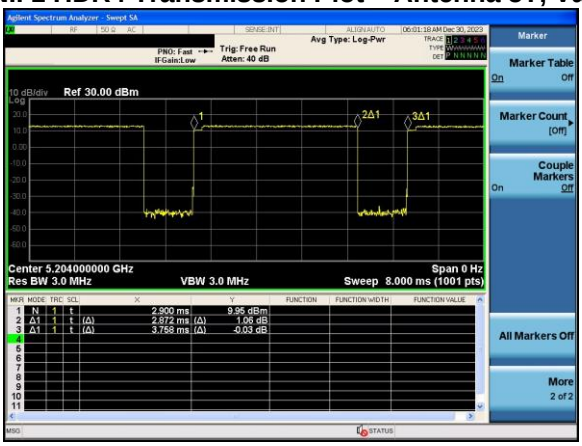
Equation 8-7
802.15.4 Duty Cycle Calculation – Antenna 1a and 3a

$$\boldsymbol{Duty\ Cycle} = \mathbf{100}\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8.16 NB UNII Duty Cycle Plots

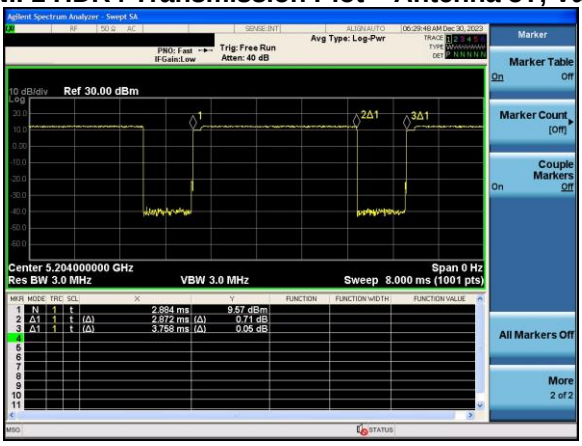
Figure 8-12
NB U-NII 1 HDR4 Transmission Plot – Antenna 5T, Variant 1



Equation 8-8
NB U-NII 1 HDR4 Duty Cycle Calculation – Antenna 5T, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.872\ ms}{3.758\ ms} * 100\% = 76.4\%$$

Figure 8-13
NB U-NII 1 HDR4 Transmission Plot – Antenna 5T, Variant 2

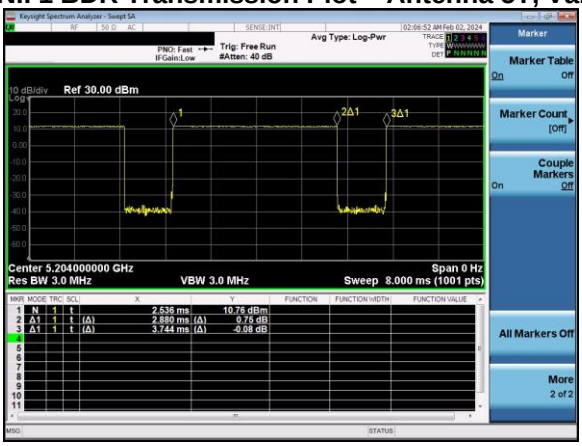


Equation 8-9
NB U-NII 1 HDR4 Duty Cycle Calculation – Antenna 5T, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.872\ ms}{3.758\ ms} * 100\% = 76.4\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

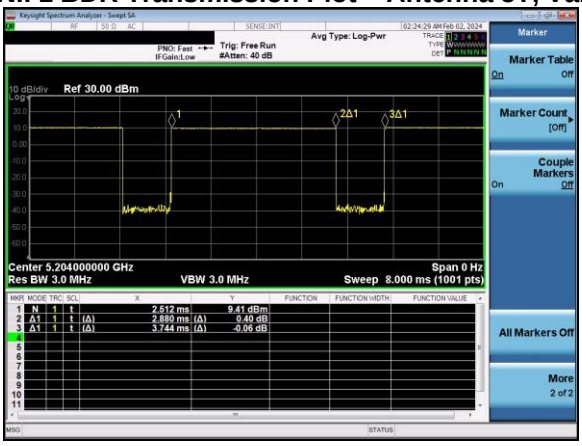
Figure 8-14
NB U-NII 1 BDR Transmission Plot – Antenna 5T, Variant 1



Equation 8-10
NB U-NII 1 BDR Duty Cycle Calculation – Antenna 5T, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.744\ ms} * 100\% = 76.9\%$$

Figure 8-15
NB U-NII 1 BDR Transmission Plot – Antenna 5T, Variant 2

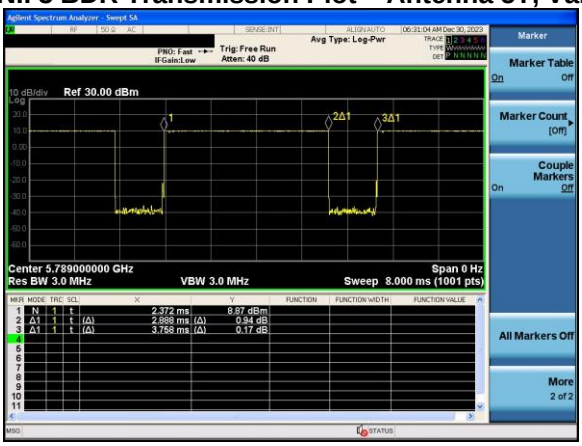


Equation 8-11
NB U-NII 1 BDR Duty Cycle Calculation – Antenna 5T, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.744\ ms} * 100\% = 76.9\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

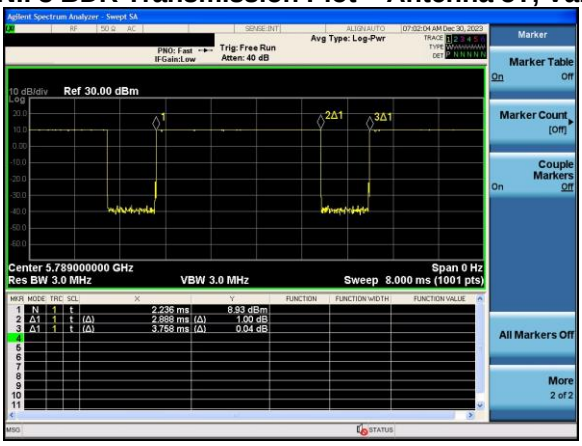
Figure 8-16
NB U-NII 3 BDR Transmission Plot – Antenna 5T, Variant 1



Equation 8-12
NB U-NII 3 BDR Duty Cycle Calculation – Antenna 5T, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.758\ ms} * 100\% = 76.8\%$$

Figure 8-17
NB U-NII 3 BDR Transmission Plot – Antenna 5T, Variant 2

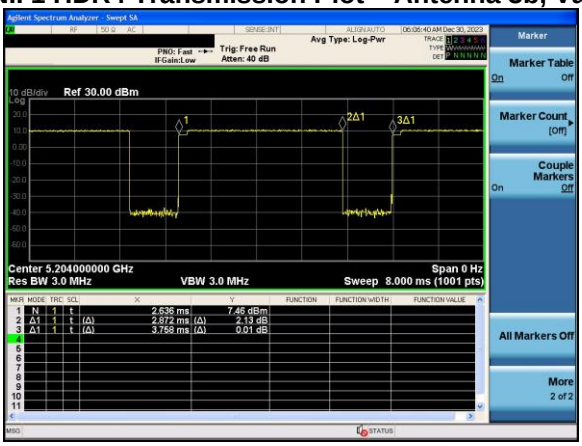


Equation 8-13
NB U-NII 3 BDR Duty Cycle Calculation – Antenna 5T, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.758\ ms} * 100\% = 76.8\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

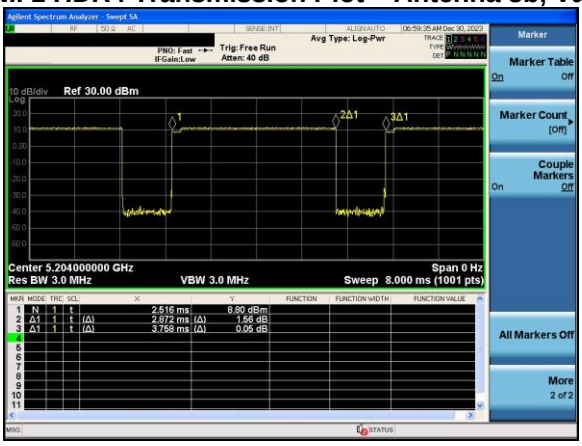
Figure 8-18
NB U-NII 1 HDR4 Transmission Plot – Antenna 3b, Variant 1



Equation 8-14
NB U-NII 1 HDR4 Duty Cycle Calculation – Antenna 3b, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.872\ ms}{3.758\ ms} * 100\% = 76.4\%$$

Figure 8-19
NB U-NII 1 HDR4 Transmission Plot – Antenna 3b, Variant 2

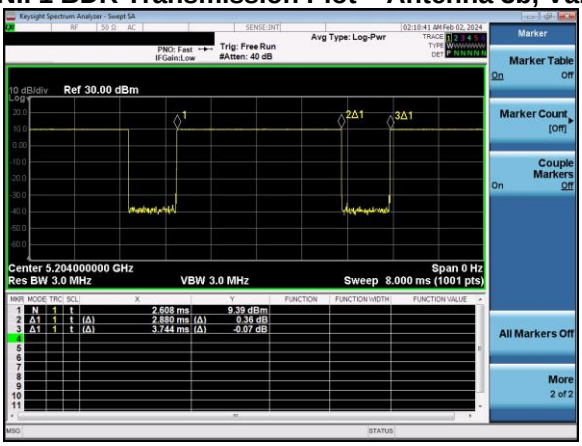


Equation 8-15
NB U-NII 1 HDR4 Duty Cycle Calculation – Antenna 3b, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.872\ ms}{3.758\ ms} * 100\% = 76.4\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

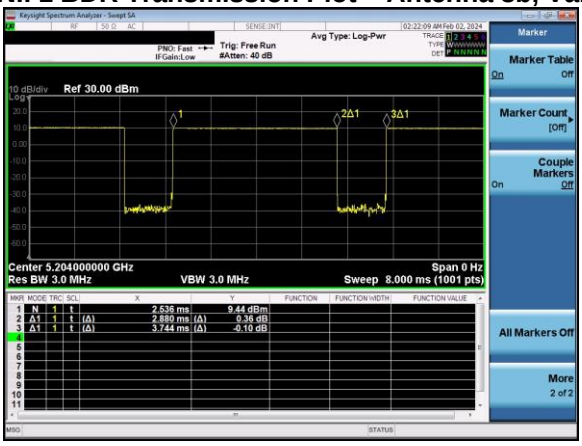
Figure 8-20
NB U-NII 1 BDR Transmission Plot – Antenna 3b, Variant 1



Equation 8-16
NB U-NII 1 BDR Duty Cycle Calculation – Antenna 3b, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.744\ ms} * 100\% = 76.9\%$$

Figure 8-21
NB U-NII 1 BDR Transmission Plot – Antenna 3b, Variant 2

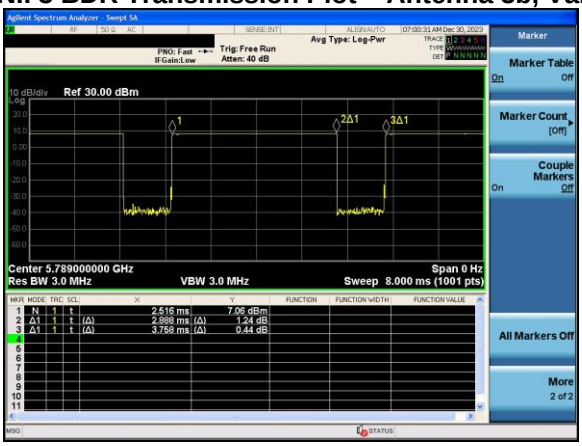


Equation 8-17
NB U-NII 1 BDR Duty Cycle Calculation – Antenna 3b, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.744\ ms} * 100\% = 76.9\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

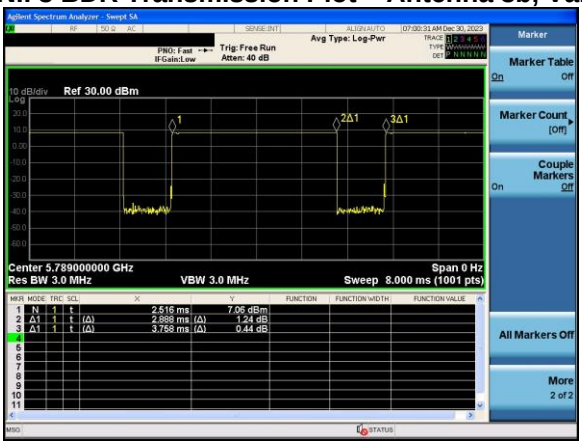
Figure 8-22
NB U-NII 3 BDR Transmission Plot – Antenna 3b, Variant 1



Equation 8-18
NB U-NII 3 BDR Duty Cycle Calculation – Antenna 3b, Variant 1

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{2.888\ ms}}{\mathbf{3.758\ ms}} * \mathbf{100\%} = \mathbf{76.8\%}$$

Figure 8-23
NB U-NII 3 BDR Transmission Plot – Antenna 3b, Variant 2

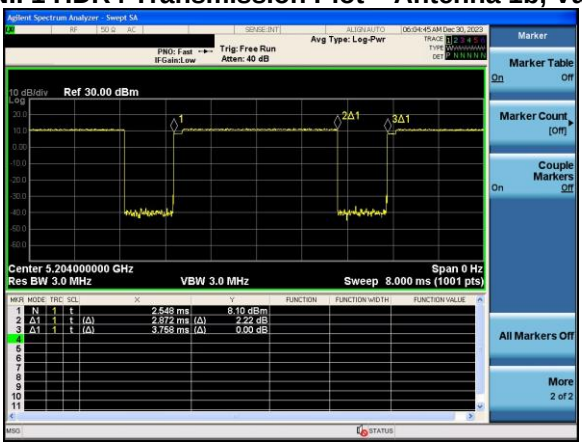


Equation 8-19
NB U-NII 3 BDR Duty Cycle Calculation – Antenna 3b, Variant 2

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{2.888\ ms}}{\mathbf{3.758\ ms}} * \mathbf{100\%} = \mathbf{76.8\%}$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

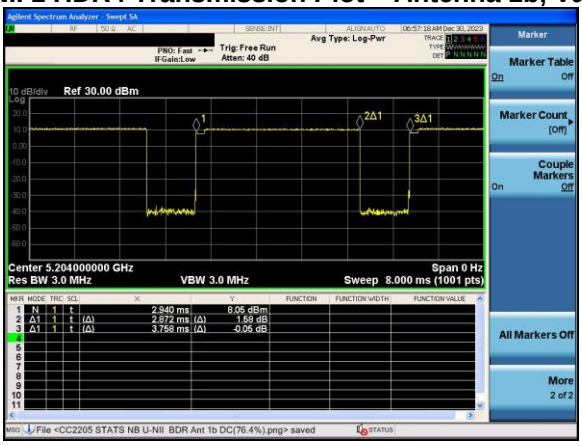
Figure 8-24
NB U-NII 1 HDR4 Transmission Plot – Antenna 1b, Variant 1



Equation 8-20
NB U-NII 1 HDR4 Duty Cycle Calculation – Antenna 1b, Variant 1

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{2.872\ ms}}{\mathbf{3.758\ ms}} * \mathbf{100\%} = \mathbf{76.4\%}$$

Figure 8-25
NB U-NII 1 HDR4 Transmission Plot – Antenna 1b, Variant 2

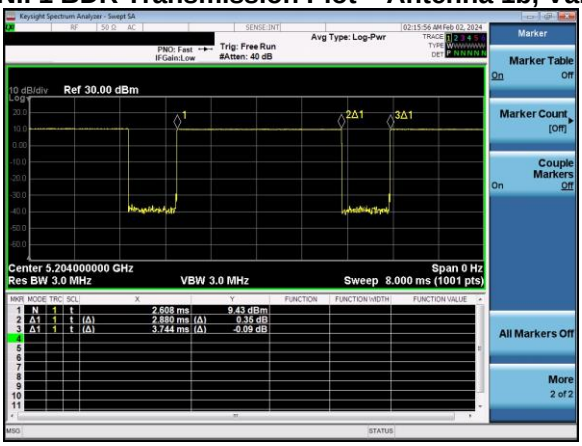


Equation 8-21
NB U-NII 1 HDR4 Duty Cycle Calculation – Antenna 1b, Variant 2

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{2.872\ ms}}{\mathbf{3.758\ ms}} * \mathbf{100\%} = \mathbf{76.4\%}$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

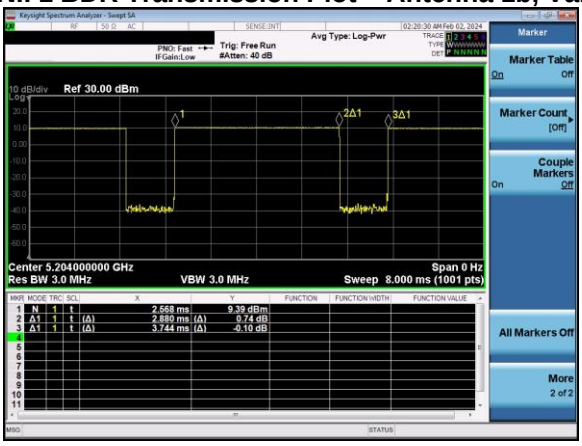
Figure 8-26
NB U-NII 1 BDR Transmission Plot – Antenna 1b, Variant 1



Equation 8-22
NB U-NII 1 BDR Duty Cycle Calculation – Antenna 1b, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.744\ ms} * 100\% = 76.9\%$$

Figure 8-27
NB U-NII 1 BDR Transmission Plot – Antenna 1b, Variant 2

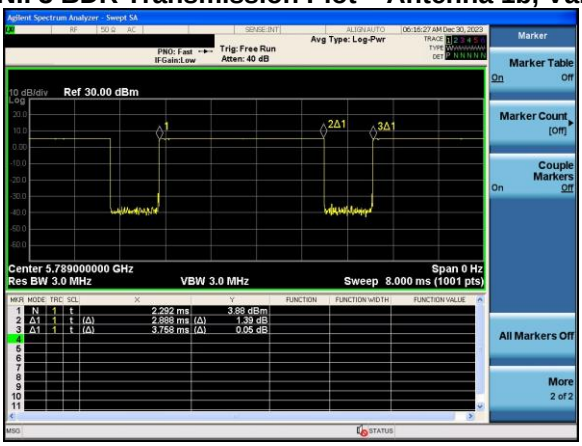


Equation 8-23
NB U-NII 1 BDR Duty Cycle Calculation – Antenna 1b, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.744\ ms} * 100\% = 76.9\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

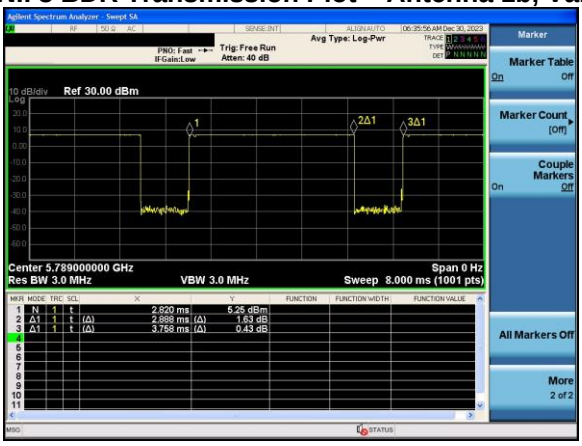
Figure 8-28
NB U-NII 3 BDR Transmission Plot – Antenna 1b, Variant 1



Equation 8-24
NB U-NII 3 BDR Duty Cycle Calculation – Antenna 1b, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.758\ ms} * 100\% = 76.8\%$$

Figure 8-29
NB U-NII 3 BDR Transmission Plot – Antenna 1b, Variant 2



Equation 8-25
NB U-NII 3 BDR Duty Cycle Calculation – Antenna 1b, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.758\ ms} * 100\% = 76.8\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8.17 NB UNII Reduction Verification Summary

Table 8-199
NB UNII Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 3B	NB UNII	Main Band 3A/3B ON	11.5	7	9.47	5.48	PASS
	NB UNII	ULCA ON	11.5	4.5	9.47	4.43	PASS
	NB UNII	2.4 GHz WLAN Ant 3A/1A ON	11.5	7	9.47	5.48	PASS
	NB UNII	ULCA ON an 2.4 GHz WLAN 3A ON	11.5	4.5	9.47	4.43	PASS
	NB UNII	Main band Ant 1A/1B ON and 2.4 GHZ WLAN 3A/1A ON	11.5	7	9.47	5.48	PASS
	NB UNII	Main band Ant 2 ON and 2.4 GHZ WLAN 3A/1A ON	11.5	7	9.47	5.48	PASS
	NB UNII	Main band Ant 3A/3B ON and 2.4 GHZ WLAN 3A/1A ON	11.5	4.5	9.47	4.43	PASS
	NB UNII	Main band Ant 4 ON and 2.4 GHZ WLAN 3A/1A ON	11.5	7	9.47	5.25	PASS
Ant 5T	NB UNII	Main Band 3A/3B ON	13.5	12	12.1	10.3	PASS
	NB UNII	ULCA ON	13.5	9.5	12.1	8	PASS
	NB UNII	2.4 GHz WLAN Ant 3A/1A ON	13.5	12	12.1	10.19	PASS
	NB UNII	ULCA ON an 2.4 GHz WLAN 3A/1A ON	13.5	9.5	12.1	8	PASS
	NB UNII	Main band Ant 3A/3B ON and 2.4 GHZ WLAN 3A/1A ON	13.5	9.5	12.1	8	PASS
	NB UNII	Main band Ant 1A/1B ON and 2.4 GHZ WLAN 3A/1A ON	13.5	12	12.1	10.19	PASS
	NB UNII	Main band Ant 2 ON and 2.4 GHZ WLAN 3A/1A ON	13.5	12	12.1	10.19	PASS
	NB UNII	Main band Ant 4 ON and 2.4 GHZ WLAN 3A/1A ON	13.5	12	12.1	10.17	PASS
Ant 1B	NB UNII	Main Band 1A/1B ON	10.5	6	10.1	5.85	PASS
	NB UNII	ULCA ON	10.5	3.5	10.1	3.3	PASS
	NB UNII	2.4 GHz WLAN Ant 3A/1A ON	10.5	6	10.1	5.85	PASS
	NB UNII	ULCA ON an 2.4 GHz WLAN 1A ON	10.5	3.5	10.1	3.3	PASS
	NB UNII	Main band Ant 1A/1B ON and 2.4 GHZ WLAN 1A ON	10.5	3.5	10.1	3.3	PASS
	NB UNII	Main band Ant 2 ON and 2.4 GHZ WLAN 1A ON	10.5	6	10.1	5.85	PASS
	NB UNII	Main band Ant 3A/3B ON and 2.4 GHZ WLAN 1A ON	10.5	6	10.1	5.85	PASS
	NB UNII	Main band Ant 4 ON and 2.4 GHZ WLAN 1A ON	10.5	6	10.1	5.85	PASS

NB UNII max power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

Conducted powers were measured for each mode/band and applied condition. All conducted power measurements were verified to be below the maximum allowed.

8.18 Notes for NB UNII

- The NB UNII chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- NB UNII SAR worst case configuration was spotchecked on Variant 1 and Variant 2.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

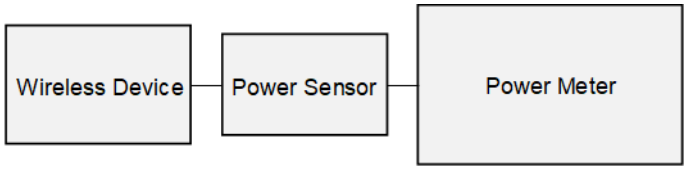


Figure 8-30
Power Measurement Setup

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.19 Bluetooth and 802.15.4 Power Reduction Verification Summary

Table 8-200
Bluetooth Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 3A	2.4 GHz Bluetooth	Main Band 3A/3B ON	12.5	8	10.96	6.95	PASS
	2.4 GHz Bluetooth	ULCA ON	12.5	5.5	10.96	4.95	PASS
	802.15.4	Main band Ant 1A/1B ON and 5/6 GHZ WLAN 3B ON	12.5	8	11.05	7.79	PASS
	802.15.4	Main band Ant 2 ON and 5/6 GHz WLAN Ant 3B ON	12.5	8	11.05	7.79	PASS
	802.15.4	Main band Ant 3A/3B ON and 5/6 GHz WLAN Ant 3B ON	12.5	5.5	11.05	5.12	PASS
	802.15.4	Main Band Ant 4 ON and 5/6 GHz WLAN Ant 3B ON	12.5	8	11.05	7.79	PASS
	2.4 GHz Bluetooth	ULCA ON and 5/6 GHz WLAN 3B ON	12.5	5.5	10.96	4.95	PASS
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant 3B ON	12.5	8	10.96	6.84	PASS
Ant 1A	802.15.4	Main Band 1A/1B ON	13	8.5	12.28	7.97	PASS
	802.15.4	ULCA ON	13	6	12.28	5.58	PASS
	2.4 GHz Bluetooth	Main band Ant 1A/1B ON and 5/6 GHZ WLAN 1B ON	13	6	11.96	4.97	PASS
	2.4 GHz Bluetooth	Main band Ant 2 ON and 5/6 GHZ WLAN 1B ON	13	8.5	11.96	7.94	PASS
	2.4 GHz Bluetooth	Main band Ant 3A/3B ON and 5/6 GHZ WLAN 1B ON	13	8.5	11.96	6.97	PASS
	2.4 GHz Bluetooth	Main band Ant 4 ON and 5/6 GHZ WLAN 1B ON	13	8.5	11.96	6.97	PASS
	802.15.4	ULCA ON and 5/6 GHz WLAN 1B ON	13	6	12.28	5.58	PASS
	802.15.4	5/6 GHZ WLAN 1B ON	13	8.5	12.28	7.97	PASS

Per manufacturer, 2.4 GHz Bluetooth and 802.15.4 share the same antenna path and reduces with the same power backoff when it transmits simultaneously with cellular and 5/6 GHz WLAN antennas. Therefore, conducted power measurements were measured for both mode/bands as shown above and applied condition.

Conducted powers were measured for each mode/band and applied condition. All conducted power measurements were verified to be below the maximum allowed.

Note: Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

8.20 Notes for Bluetooth/802.15.4

- The Bluetooth/802.15.4 chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- Bluetooth/802.15.4 SAR worst case configuration was spotchecked on Variant 1 and Variant 2.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

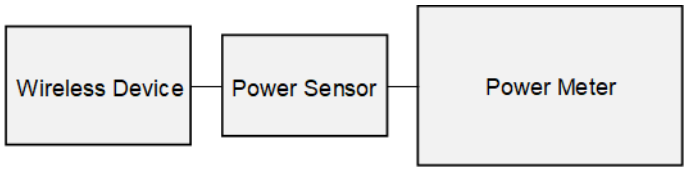


Figure 8-31
Power Measurement Setup

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
01/02/2024	30 Head	22.6	12	0.725	53.346	0.750	55.000	-3.33%	-3.01%
			13	0.725	53.337	0.750	55.000	-3.33%	-3.02%
			14	0.725	53.291	0.750	55.000	-3.33%	-3.11%
			30	0.728	52.949	0.750	55.000	-2.93%	-3.73%
			60	0.733	52.109	0.753	54.325	-2.66%	-4.08%
			65	0.735	52.018	0.753	54.213	-2.39%	-4.05%
			150	0.763	50.363	0.760	52.300	0.39%	-3.70%
12/10/2023	750 Head	23.3	680	0.879	40.467	0.888	42.305	-1.01%	-4.34%
			695	0.884	40.428	0.889	42.227	-0.56%	-4.26%
			710	0.890	40.405	0.890	42.149	0.00%	-4.14%
			725	0.895	40.377	0.891	42.071	0.45%	-4.03%
			750	0.903	40.295	0.894	41.942	1.01%	-3.93%
			770	0.909	40.200	0.895	41.838	1.56%	-3.92%
			785	0.915	40.138	0.896	41.760	2.12%	-3.88%
			800	0.920	40.099	0.897	41.682	2.56%	-3.80%
12/12/2023	750 Head	22.7	680	0.884	40.991	0.888	42.305	-0.45%	-3.11%
			695	0.889	40.940	0.889	42.227	0.00%	-3.05%
			700	0.890	40.925	0.889	42.201	0.11%	-3.02%
			710	0.893	40.894	0.890	42.149	0.34%	-2.98%
			725	0.898	40.843	0.891	42.071	0.79%	-2.92%
			750	0.907	40.761	0.894	41.942	1.45%	-2.82%
			770	0.913	40.699	0.895	41.838	2.01%	-2.72%
			785	0.919	40.655	0.896	41.760	2.57%	-2.65%
			800	0.923	40.615	0.897	41.682	2.90%	-2.56%
12/16/2023	750 Head	19.3	680	0.851	40.642	0.888	42.305	-4.17%	-3.93%
			695	0.856	40.596	0.889	42.227	-3.71%	-3.86%
			700	0.857	40.585	0.889	42.201	-3.60%	-3.83%
			710	0.861	40.568	0.890	42.149	-3.26%	-3.75%
			725	0.866	40.545	0.891	42.071	-2.81%	-3.63%
			750	0.873	40.493	0.894	41.942	-2.35%	-3.45%
			770	0.879	40.441	0.895	41.838	-1.79%	-3.34%
			785	0.883	40.404	0.896	41.760	-1.45%	-3.25%
			800	0.887	40.370	0.897	41.682	-1.11%	-3.15%
12/18/2023	750 Head	22.0	680	0.860	41.496	0.888	42.305	-3.15%	-1.91%
			695	0.866	41.442	0.889	42.227	-2.59%	-1.86%
			700	0.868	41.428	0.889	42.201	-2.36%	-1.83%
			710	0.872	41.408	0.890	42.149	-2.02%	-1.76%
			725	0.877	41.375	0.891	42.071	-1.57%	-1.65%
			750	0.885	41.303	0.894	41.942	-1.01%	-1.52%
			770	0.892	41.223	0.895	41.838	-0.34%	-1.47%
			785	0.898	41.171	0.896	41.760	0.22%	-1.41%
			800	0.903	41.123	0.897	41.682	0.67%	-1.34%
12/13/2023	835 Head	19.2	815	0.902	42.140	0.898	41.594	0.45%	1.31%
			820	0.907	42.074	0.899	41.578	0.89%	1.19%
			835	0.922	41.880	0.900	41.500	2.44%	0.92%
			850	0.938	41.693	0.916	41.500	2.40%	0.47%
12/15/2023	835 Head	20.0	815	0.887	41.685	0.898	41.594	-1.22%	0.22%
			820	0.892	41.615	0.899	41.578	-0.78%	0.09%
			835	0.906	41.409	0.900	41.500	0.67%	-0.22%
			850	0.921	41.226	0.916	41.500	0.55%	-0.66%
12/12/2023	1750 Head	20.0	1700	1.329	39.125	1.343	40.145	-1.04%	-2.54%
			1705	1.333	39.108	1.345	40.141	-0.89%	-2.57%
			1710	1.338	39.085	1.348	40.136	-0.74%	-2.62%
			1720	1.348	39.049	1.354	40.126	-0.44%	-2.68%
			1745	1.373	38.935	1.368	40.087	0.37%	-2.87%
			1750	1.378	38.913	1.371	40.079	0.51%	-2.91%
			1770	1.398	38.823	1.383	40.047	1.08%	-3.06%
			1790	1.417	38.733	1.394	40.016	1.65%	-3.21%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
12/14/2023	1750 Head	20.1	1700	1.325	38.481	1.343	40.145	-1.34%	-4.14%
			1705	1.330	38.462	1.345	40.141	-1.12%	-4.18%
			1710	1.335	38.446	1.348	40.136	-0.96%	-4.21%
			1720	1.344	38.413	1.354	40.126	-0.74%	-4.27%
			1745	1.368	38.314	1.368	40.087	0.00%	-4.42%
			1750	1.373	38.291	1.371	40.079	0.15%	-4.46%
			1770	1.393	38.189	1.383	40.047	0.72%	-4.64%
			1790	1.412	38.093	1.394	40.016	1.29%	-4.81%
01/10/2024	1750 Head	20.9	1700	1.313	39.163	1.343	40.145	-2.23%	-2.45%
			1705	1.318	39.145	1.345	40.141	-2.01%	-2.48%
			1710	1.322	39.121	1.348	40.136	-1.93%	-2.53%
			1720	1.332	39.075	1.354	40.126	-1.62%	-2.62%
			1745	1.357	38.953	1.368	40.087	-0.80%	-2.83%
			1750	1.363	38.928	1.371	40.079	-0.58%	-2.87%
			1770	1.382	38.847	1.383	40.047	-0.07%	-3.00%
			1790	1.400	38.771	1.394	40.016	0.43%	-3.11%
12/16/2023	1900 Head	20.5	1850	1.373	38.592	1.400	40.000	-1.93%	-3.52%
			1860	1.384	38.544	1.400	40.000	-1.14%	-3.64%
			1880	1.403	38.462	1.400	40.000	0.21%	-3.84%
			1900	1.423	38.391	1.400	40.000	1.64%	-4.02%
			1905	1.428	38.373	1.400	40.000	2.00%	-4.07%
			1910	1.433	38.355	1.400	40.000	2.36%	-4.11%
			1920	1.443	38.317	1.400	40.000	3.07%	-4.21%
12/18/2023	1900 Head	22.2	1850	1.374	38.343	1.400	40.000	-1.86%	-4.14%
			1860	1.384	38.293	1.400	40.000	-1.14%	-4.27%
			1880	1.404	38.215	1.400	40.000	0.29%	-4.46%
			1900	1.425	38.133	1.400	40.000	1.79%	-4.67%
			1905	1.430	38.114	1.400	40.000	2.14%	-4.72%
			1910	1.435	38.093	1.400	40.000	2.50%	-4.77%
			1920	1.445	38.053	1.400	40.000	3.21%	-4.87%
12/13/2023	2450 Head	19.0	2300	1.664	41.141	1.670	39.500	-0.36%	4.15%
			2310	1.673	41.120	1.679	39.480	-0.36%	4.15%
			2320	1.682	41.116	1.687	39.460	-0.30%	4.20%
			2400	1.742	40.957	1.756	39.289	-0.80%	4.25%
			2450	1.792	40.933	1.800	39.200	-0.44%	4.42%
			2480	1.811	40.898	1.833	39.162	-1.20%	4.43%
			2500	1.826	40.822	1.855	39.136	-1.56%	4.31%
			2510	1.837	40.788	1.866	39.123	-1.55%	4.26%
			2535	1.861	40.734	1.893	39.092	-1.69%	4.20%
			2550	1.873	40.722	1.909	39.073	-1.89%	4.22%
			2560	1.882	40.714	1.920	39.060	-1.98%	4.23%
			2600	1.923	40.657	1.964	39.009	-2.09%	4.22%
			2650	1.966	40.543	2.018	38.945	-2.58%	4.10%
			2680	1.988	40.464	2.051	38.907	-3.07%	4.00%
			2700	2.008	40.416	2.073	38.882	-3.14%	3.95%
12/13/2023	2450 Head	20.2	2300	1.633	39.457	1.670	39.500	-2.22%	-0.11%
			2310	1.639	39.443	1.679	39.480	-2.38%	-0.09%
			2320	1.646	39.423	1.687	39.460	-2.43%	-0.09%
			2400	1.707	39.318	1.756	39.289	-2.79%	0.07%
			2450	1.744	39.213	1.800	39.200	-3.11%	0.03%
			2480	1.768	39.179	1.833	39.162	-3.55%	0.04%
			2500	1.783	39.154	1.855	39.136	-3.88%	0.05%
			2510	1.790	39.137	1.866	39.123	-4.07%	0.04%
			2535	1.809	39.084	1.893	39.092	-4.44%	-0.02%
			2550	1.822	39.048	1.909	39.073	-4.56%	-0.06%
			2560	1.832	39.029	1.920	39.060	-4.58%	-0.08%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
12/20/2023	2450 Head	24.4	2300	1.694	38.920	1.670	39.500	1.44%	-1.47%
			2310	1.705	38.881	1.679	39.480	1.55%	-1.52%
			2320	1.716	38.835	1.687	39.460	1.72%	-1.58%
			2400	1.806	38.515	1.756	39.289	2.85%	-1.97%
			2450	1.862	38.280	1.800	39.200	3.44%	-2.35%
			2480	1.896	38.167	1.833	39.162	3.44%	-2.54%
			2500	1.916	38.088	1.855	39.136	3.29%	-2.68%
			2510	1.927	38.042	1.866	39.123	3.27%	-2.76%
			2535	1.955	37.915	1.893	39.092	3.28%	-3.01%
			2550	1.973	37.835	1.909	39.073	3.35%	-3.17%
			2560	1.985	37.787	1.920	39.060	3.39%	-3.26%
			2600	2.029	37.612	1.964	39.009	3.31%	-3.58%
			2650	2.086	37.399	2.018	38.945	3.37%	-3.97%
			2680	2.121	37.266	2.051	38.907	3.41%	-4.22%
			2700	2.145	37.184	2.073	38.882	3.47%	-4.37%
12/22/2023	2450 Head	24.0	2300	1.673	39.641	1.670	39.500	0.18%	0.36%
			2310	1.685	39.601	1.679	39.480	0.36%	0.31%
			2320	1.698	39.559	1.687	39.460	0.65%	0.25%
			2400	1.790	39.196	1.756	39.289	1.94%	-0.24%
			2450	1.851	38.957	1.800	39.200	2.83%	-0.62%
			2480	1.885	38.808	1.833	39.162	2.84%	-0.90%
			2500	1.907	38.719	1.855	39.136	2.80%	-1.07%
			2510	1.918	38.677	1.866	39.123	2.79%	-1.14%
			2535	1.948	38.552	1.893	39.092	2.91%	-1.38%
			2550	1.968	38.473	1.909	39.073	3.09%	-1.54%
			2560	1.981	38.419	1.920	39.060	3.18%	-1.64%
			2600	2.026	38.229	1.964	39.009	3.16%	-2.00%
			2650	2.088	37.989	2.018	38.945	3.47%	-2.45%
			2680	2.123	37.836	2.051	38.907	3.51%	-2.75%
			2700	2.145	37.738	2.073	38.882	3.47%	-2.94%
12/26/2023	2450 Head	24.4	2300	1.696	38.647	1.670	39.500	1.56%	-2.16%
			2310	1.708	38.602	1.679	39.480	1.73%	-2.22%
			2320	1.720	38.566	1.687	39.460	1.96%	-2.27%
			2400	1.810	38.230	1.756	39.289	3.08%	-2.70%
			2450	1.870	38.054	1.800	39.200	3.89%	-2.92%
			2480	1.901	37.898	1.833	39.162	3.71%	-3.23%
			2500	1.925	37.789	1.855	39.136	3.77%	-3.44%
			2510	1.938	37.750	1.866	39.123	3.86%	-3.51%
			2535	1.968	37.676	1.893	39.092	3.96%	-3.62%
			2550	1.984	37.628	1.909	39.073	3.93%	-3.70%
			2560	1.994	37.585	1.920	39.060	3.85%	-3.78%
			2600	2.041	37.380	1.964	39.009	3.92%	-4.18%
			2650	2.096	37.198	2.018	38.945	3.87%	-4.49%
			2680	2.129	37.043	2.051	38.907	3.80%	-4.79%
			2700	2.155	36.951	2.073	38.882	3.96%	-4.97%
02/21/2024	2450 Head	19.0	2300	1.658	40.732	1.670	39.500	-0.72%	3.12%
			2310	1.667	40.720	1.679	39.480	-0.71%	3.14%
			2320	1.675	40.704	1.687	39.460	-0.71%	3.15%
			2400	1.736	40.578	1.756	39.289	-1.14%	3.28%
			2450	1.778	40.487	1.800	39.200	-1.22%	3.28%
			2480	1.801	40.420	1.833	39.162	-1.75%	3.21%
			2500	1.817	40.387	1.855	39.136	-2.05%	3.20%
			2510	1.825	40.373	1.866	39.123	-2.20%	3.20%
			2535	1.847	40.336	1.893	39.092	-2.43%	3.18%
			2550	1.859	40.309	1.909	39.073	-2.62%	3.16%
			2560	1.867	40.289	1.920	39.060	-2.76%	3.15%
			2600	1.899	40.199	1.964	39.009	-3.31%	3.05%
			2650	1.942	40.136	2.018	38.945	-3.77%	3.06%
			2680	1.967	40.078	2.051	38.907	-4.10%	3.01%
			2700	1.984	40.037	2.073	38.882	-4.29%	2.97%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
03/02/2024	2450 Head	23.0	2300	1.694	38.685	1.670	39.500	1.44%	-2.06%
			2310	1.707	38.642	1.679	39.480	1.67%	-2.12%
			2320	1.719	38.605	1.687	39.460	1.90%	-2.17%
			2400	1.807	38.315	1.756	39.289	2.90%	-2.48%
			2450	1.869	38.116	1.800	39.200	3.83%	-2.77%
			2480	1.904	38.001	1.833	39.162	3.87%	-2.96%
			2500	1.925	37.915	1.855	39.136	3.77%	-3.12%
			2510	1.935	37.868	1.866	39.123	3.70%	-3.21%
			2535	1.965	37.761	1.893	39.092	3.80%	-3.40%
			2550	1.985	37.702	1.909	39.073	3.98%	-3.51%
			2560	1.998	37.663	1.920	39.060	4.06%	-3.58%
			2600	2.044	37.500	1.964	39.009	4.07%	-3.87%
			2650	2.102	37.279	2.018	38.945	4.16%	-4.28%
			2680	2.142	37.156	2.051	38.907	4.44%	-4.50%
			2700	2.164	37.070	2.073	38.882	4.39%	-4.66%
12/10/2023	3600 Head	23.5	3300	2.808	36.793	2.708	38.157	3.69%	-3.57%
			3350	2.848	36.707	2.759	38.100	3.23%	-3.66%
			3450	2.920	36.573	2.861	37.986	2.06%	-3.72%
			3500	2.958	36.521	2.913	37.929	1.54%	-3.71%
			3550	2.998	36.459	2.964	37.871	1.15%	-3.73%
			3560	3.006	36.446	2.974	37.860	1.08%	-3.73%
			3600	3.038	36.400	3.015	37.814	0.76%	-3.74%
			3650	3.074	36.340	3.066	37.757	0.26%	-3.75%
			3690	3.105	36.283	3.107	37.711	-0.06%	-3.79%
			3700	3.114	36.270	3.117	37.700	-0.10%	-3.79%
			3750	3.154	36.224	3.169	37.643	-0.47%	-3.77%
			3900	3.279	36.048	3.323	37.471	-1.32%	-3.80%
			3930	3.306	36.014	3.353	37.437	-1.40%	-3.80%
			4100	3.454	35.810	3.528	37.243	-2.10%	-3.85%
			4150	3.496	35.745	3.579	37.186	-2.32%	-3.88%
12/12/2023	3600 Head	21.5	3300	2.699	38.419	2.708	38.157	-0.33%	0.69%
			3350	2.741	38.364	2.759	38.100	-0.65%	0.69%
			3450	2.822	38.258	2.861	37.986	-1.36%	0.72%
			3500	2.860	38.186	2.913	37.929	-1.82%	0.68%
			3550	2.903	38.130	2.964	37.871	-2.06%	0.68%
			3560	2.910	38.118	2.974	37.860	-2.15%	0.68%
			3600	2.944	38.061	3.015	37.814	-2.35%	0.65%
			3650	2.984	38.000	3.066	37.757	-2.67%	0.64%
			3690	3.017	37.941	3.107	37.711	-2.90%	0.61%
			3700	3.025	37.926	3.117	37.700	-2.95%	0.60%
			3750	3.067	37.880	3.169	37.643	-3.22%	0.63%
			3900	3.202	37.676	3.323	37.471	-3.64%	0.55%
			3930	3.225	37.631	3.353	37.437	-3.82%	0.52%
			4100	3.387	37.406	3.528	37.243	-4.00%	0.44%
			4150	3.433	37.336	3.579	37.186	-4.08%	0.40%
12/18/2023	3600 Head	20.8	3300	2.751	38.919	2.708	38.157	1.59%	2.00%
			3350	2.790	38.822	2.759	38.100	1.12%	1.90%
			3450	2.865	38.656	2.861	37.986	0.14%	1.76%
			3500	2.906	38.608	2.913	37.929	-0.24%	1.79%
			3550	2.943	38.520	2.964	37.871	-0.71%	1.71%
			3560	2.952	38.492	2.974	37.860	-0.74%	1.67%
			3600	2.986	38.459	3.015	37.814	-0.96%	1.71%
			3650	3.024	38.376	3.066	37.757	-1.37%	1.64%
			3690	3.060	38.315	3.107	37.711	-1.51%	1.60%
			3700	3.068	38.314	3.117	37.700	-1.57%	1.63%
			3750	3.107	38.236	3.169	37.643	-1.96%	1.58%
			3900	3.237	38.050	3.323	37.471	-2.59%	1.55%
			3930	3.265	38.005	3.353	37.437	-2.62%	1.52%
			4100	3.418	37.792	3.528	37.243	-3.12%	1.47%
			4150	3.469	37.712	3.579	37.186	-3.07%	1.41%
12/19/2023	3600 Head	23.1	3450	2.997	36.608	2.861	37.986	4.75%	-3.63%
			3500	3.049	36.580	2.913	37.929	4.67%	-3.56%
			3550	3.082	36.538	2.964	37.871	3.98%	-3.52%
			3560	3.093	36.509	2.974	37.860	4.00%	-3.57%
			3600	3.133	36.503	3.015	37.814	3.91%	-3.47%
			3650	3.169	36.447	3.066	37.757	3.36%	-3.47%
			3690	3.211	36.402	3.107	37.711	3.35%	-3.47%
			3700	3.220	36.386	3.117	37.700	3.30%	-3.49%
			3750	3.252	36.366	3.169	37.643	2.62%	-3.39%
			3900	3.383	36.186	3.323	37.471	1.81%	-3.43%
			3930	3.407	36.151	3.353	37.437	1.61%	-3.44%
			4100	3.536	35.894	3.528	37.243	0.23%	-3.62%
			4150	3.571	35.885	3.579	37.186	-0.22%	-3.50%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
			5180	4.423	35.050	4.635	36.009	-4.57%	-2.66%
			5190	4.440	35.034	4.645	35.998	-4.41%	-2.68%
			5200	4.453	35.029	4.655	35.986	-4.34%	-2.66%
			5210	4.461	35.023	4.666	35.975	-4.39%	-2.65%
			5220	4.465	35.007	4.676	35.963	-4.51%	-2.66%
			5240	4.487	34.962	4.696	35.940	-4.45%	-2.72%
			5250	4.497	34.960	4.706	35.929	-4.44%	-2.70%
			5260	4.507	34.936	4.717	35.917	-4.45%	-2.73%
			5270	4.523	34.907	4.727	35.906	-4.32%	-2.78%
			5280	4.538	34.872	4.737	35.894	-4.20%	-2.85%
			5290	4.550	34.853	4.748	35.883	-4.17%	-2.87%
			5300	4.560	34.847	4.758	35.871	-4.16%	-2.85%
			5320	4.586	34.837	4.778	35.849	-4.02%	-2.82%
			5500	4.782	34.494	4.963	35.643	-3.65%	-3.22%
			5510	4.789	34.474	4.973	35.632	-3.70%	-3.25%
			5520	4.795	34.457	4.983	35.620	-3.77%	-3.27%
			5530	4.805	34.449	4.994	35.609	-3.78%	-3.26%
			5540	4.820	34.436	5.004	35.597	-3.68%	-3.26%
			5550	4.830	34.427	5.014	35.586	-3.67%	-3.26%
			5560	4.836	34.413	5.024	35.574	-3.74%	-3.26%
			5580	4.852	34.367	5.045	35.551	-3.83%	-3.33%
			5600	4.887	34.292	5.065	35.529	-3.51%	-3.48%
			5610	4.902	34.282	5.076	35.518	-3.43%	-3.48%
			5620	4.915	34.273	5.086	35.506	-3.36%	-3.47%
			5640	4.938	34.243	5.106	35.483	-3.29%	-3.49%
			5660	4.954	34.217	5.127	35.460	-3.37%	-3.51%
12/14/2023	5200-5800 Head	19.0	5670	4.960	34.197	5.137	35.449	-3.45%	-3.53%
			5680	4.968	34.168	5.147	35.437	-3.48%	-3.58%
			5690	4.980	34.134	5.158	35.426	-3.45%	-3.65%
			5700	4.998	34.103	5.168	35.414	-3.29%	-3.70%
			5710	5.014	34.082	5.178	35.403	-3.17%	-3.73%
			5720	5.029	34.076	5.188	35.391	-3.06%	-3.72%
			5745	5.054	34.049	5.214	35.363	-3.07%	-3.72%
			5750	5.061	34.041	5.219	35.357	-3.03%	-3.72%
			5755	5.064	34.033	5.224	35.351	-3.06%	-3.73%
			5765	5.072	34.012	5.234	35.340	-3.10%	-3.76%
			5775	5.076	34.000	5.245	35.329	-3.22%	-3.76%
			5785	5.082	33.977	5.255	35.317	-3.29%	-3.79%
			5795	5.092	33.939	5.265	35.305	-3.29%	-3.87%
			5800	5.099	33.921	5.270	35.300	-3.24%	-3.91%
			5800	5.099	33.921	5.270	35.300	-3.24%	-3.91%
			5805	5.108	33.906	5.275	35.294	-3.17%	-3.93%
			5825	5.138	33.874	5.296	35.271	-2.98%	-3.96%
			5835	5.155	33.866	5.305	35.230	-2.83%	-3.87%
			5845	5.166	33.857	5.315	35.210	-2.80%	-3.84%
			5855	5.174	33.845	5.325	35.197	-2.84%	-3.84%
			5865	5.180	33.829	5.336	35.190	-2.92%	-3.87%
			5865	5.180	33.829	5.336	35.190	-2.92%	-3.87%
			5865	5.180	33.829	5.336	35.190	-2.92%	-3.87%
			5865	5.180	33.829	5.336	35.190	-2.92%	-3.87%
			5875	5.190	33.806	5.347	35.183	-2.94%	-3.91%
			5885	5.201	33.786	5.357	35.177	-2.91%	-3.95%
			5905	5.225	33.722	5.379	35.163	-2.86%	-4.10%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
12/26/2023	5200-5800 Head	19.0	5180	4.564	35.801	4.635	36.009	-1.53%	-0.58%
			5190	4.575	35.781	4.645	35.998	-1.51%	-0.60%
			5200	4.588	35.773	4.655	35.986	-1.44%	-0.59%
			5210	4.598	35.760	4.666	35.975	-1.46%	-0.60%
			5220	4.606	35.729	4.676	35.963	-1.50%	-0.65%
			5240	4.637	35.678	4.696	35.940	-1.26%	-0.73%
			5250	4.648	35.676	4.706	35.929	-1.23%	-0.70%
			5260	4.655	35.667	4.717	35.917	-1.31%	-0.70%
			5270	4.667	35.633	4.727	35.906	-1.27%	-0.76%
			5280	4.677	35.598	4.737	35.894	-1.27%	-0.82%
			5290	4.693	35.578	4.748	35.883	-1.16%	-0.85%
			5300	4.701	35.566	4.758	35.871	-1.20%	-0.85%
			5310	4.710	35.534	4.768	35.860	-1.22%	-0.91%
			5320	4.721	35.510	4.778	35.849	-1.19%	-0.95%
			5500	4.930	35.169	4.963	35.643	-0.66%	-1.33%
			5510	4.940	35.150	4.973	35.632	-0.66%	-1.35%
			5520	4.951	35.121	4.983	35.620	-0.64%	-1.40%
			5530	4.960	35.090	4.994	35.609	-0.68%	-1.46%
			5540	4.970	35.059	5.004	35.597	-0.68%	-1.51%
			5550	4.986	35.045	5.014	35.586	-0.56%	-1.52%
			5560	5.000	35.045	5.024	35.574	-0.48%	-1.49%
			5580	5.019	35.026	5.045	35.551	-0.52%	-1.48%
			5600	5.047	34.954	5.065	35.529	-0.36%	-1.62%
			5610	5.057	34.940	5.076	35.518	-0.37%	-1.63%
			5620	5.066	34.928	5.086	35.506	-0.39%	-1.63%
			5640	5.098	34.880	5.106	35.483	-0.16%	-1.70%
			5660	5.124	34.833	5.127	35.460	-0.06%	-1.77%
			5670	5.133	34.827	5.137	35.449	-0.08%	-1.75%
			5680	5.142	34.819	5.147	35.437	-0.10%	-1.74%
			5690	5.154	34.795	5.158	35.426	-0.08%	-1.78%
			5700	5.167	34.775	5.168	35.414	-0.02%	-1.80%
			5710	5.179	34.755	5.178	35.403	0.02%	-1.83%
			5720	5.192	34.744	5.188	35.391	0.08%	-1.83%
			5745	5.223	34.672	5.214	35.363	0.17%	-1.95%
			5750	5.231	34.666	5.219	35.357	0.23%	-1.95%
			5755	5.236	34.657	5.224	35.351	0.23%	-1.96%
			5765	5.251	34.652	5.234	35.340	0.32%	-1.95%
			5775	5.261	34.650	5.245	35.329	0.31%	-1.92%
			5785	5.271	34.623	5.255	35.317	0.30%	-1.97%
			5795	5.281	34.599	5.265	35.305	0.30%	-2.00%
			5800	5.286	34.587	5.270	35.300	0.30%	-2.02%
			5800	5.286	34.587	5.270	35.300	0.30%	-2.02%
			5805	5.293	34.580	5.275	35.294	0.34%	-2.02%
			5825	5.312	34.569	5.296	35.271	0.30%	-1.99%
			5835	5.321	34.557	5.305	35.230	0.30%	-1.91%
			5845	5.333	34.536	5.315	35.210	0.34%	-1.91%
			5855	5.350	34.516	5.325	35.197	0.47%	-1.93%
			5865	5.370	34.490	5.336	35.190	0.64%	-1.99%
			5865	5.370	34.490	5.336	35.190	0.64%	-1.99%
			5865	5.370	34.490	5.336	35.190	0.64%	-1.99%
			5865	5.370	34.490	5.336	35.190	0.64%	-1.99%
			5875	5.381	34.471	5.347	35.183	0.64%	-2.02%
			5885	5.387	34.451	5.357	35.177	0.56%	-2.06%
			5905	5.407	34.414	5.379	35.163	0.52%	-2.13%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
12/15/2023	6000 Head	19.0	5935	5.304	36.376	5.411	35.143	-1.98%	3.51%
			5970	5.352	36.309	5.448	35.120	-1.76%	3.39%
			5985	5.377	36.276	5.464	35.110	-1.59%	3.32%
			6000	5.400	36.247	5.480	35.100	-1.46%	3.27%
			6025	5.431	36.206	5.510	35.070	-1.43%	3.24%
			6065	5.471	36.124	5.557	35.022	-1.55%	3.15%
			6075	5.484	36.102	5.569	35.010	-1.53%	3.12%
			6085	5.499	36.079	5.580	34.998	-1.45%	3.09%
			6185	5.633	35.898	5.698	34.878	-1.14%	2.92%
			6275	5.759	35.720	5.805	34.770	-0.79%	2.73%
			6285	5.767	35.698	5.816	34.758	-0.84%	2.70%
			6305	5.788	35.648	5.840	34.734	-0.89%	2.63%
			6345	5.845	35.600	5.887	34.686	-0.71%	2.64%
			6475	6.018	35.346	6.041	34.530	-0.38%	2.36%
			6485	6.030	35.322	6.052	34.518	-0.36%	2.33%
			6500	6.054	35.286	6.070	34.500	-0.26%	2.28%
			6505	6.063	35.271	6.076	34.494	-0.21%	2.25%
			6545	6.128	35.207	6.122	34.446	0.10%	2.21%
			6665	6.303	34.989	6.265	34.302	0.61%	2.00%
			6675	6.312	34.976	6.273	34.290	0.62%	2.00%
			6685	6.323	34.959	6.285	34.278	0.60%	1.99%
			6715	6.356	34.880	6.319	34.242	0.59%	1.86%
			6785	6.458	34.775	6.400	34.158	0.91%	1.81%
			6825	6.512	34.652	6.447	34.110	1.01%	1.59%
			6985	6.712	34.401	6.633	33.918	1.19%	1.42%
			6995	6.719	34.401	6.644	33.906	1.13%	1.46%
			7000	6.721	34.395	6.650	33.900	1.07%	1.46%
			7005	6.728	34.388	6.656	33.894	1.08%	1.46%
			7025	6.756	34.338	6.680	33.870	1.14%	1.38%
			7500	7.312	33.485	7.240	33.300	0.99%	0.56%
			7980	7.824	32.738	7.816	32.724	0.10%	0.04%
			8000	7.857	32.664	7.840	32.700	0.22%	-0.11%

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

Note: Per April 2019 TCB Workshop Notes, single head-tissue simulating liquid specified in IEC 62209-1 is permitted to use for all SAR tests.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

9.2 Test System Verification

Prior to SAR assessment, the system is verified to ±10% of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in the SAR System Validation Appendix.

Table 9-2
System Verification Results – 1g

System Verification TARGET & MEASURED																	
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
AM14	13	HEAD	01/02/2024	21.2	20.8	1.00	1004	7360	534	0.574	0.578	0.574	-0.69%				
AM1	750	HEAD	12/10/2023	19.7	24.3	0.20	1097	3949	1684	1.750	8.270	8.750	5.80%				
AM1	750	HEAD	12/12/2023	22.5	21.5	0.20	1034	3949	1684	1.790	8.640	8.950	3.59%				
AM1	750	HEAD	12/16/2023	21.3	19.3	0.20	1034	3949	1684	1.750	8.640	8.750	1.27%				
AM1	750	HEAD	12/18/2023	22.7	22.2	0.20	1034	3949	1684	1.810	8.640	9.050	4.75%				
AM11	750	HEAD	12/22/2023	21.7	22.8	0.20	1057	7682	1683	1.730	8.510	8.650	1.65%				
AM10	835	HEAD	12/11/2023	19.6	20.5	0.20	4d040	7416	701	1.850	9.790	9.250	-5.52%				
AM10	835	HEAD	12/13/2023	20.9	20.0	0.20	4d040	7416	701	1.910	9.790	9.550	-2.45%				
AM10	835	HEAD	12/15/2023	20.6	20.2	0.20	4d040	7416	701	1.820	9.790	9.100	-7.05%				
AM10	835	HEAD	01/31/2024	20.9	21.5	0.20	4d040	7416	701	1.870	9.790	9.350	-4.49%				
AM14	1750	HEAD	12/12/2023	21.6	19.7	0.10	1083	7360	534	3.490	36.500	34.900	-4.38%				
AM4	1750	HEAD	12/12/2023	23.7	21.1	0.10	1040	7639	1403	3.520	36.400	35.200	-3.30%				
AM14	1750	HEAD	12/14/2023	22.1	19.5	0.10	1083	7360	534	3.510	36.500	35.100	-3.84%				
AM4	1750	HEAD	01/10/2024	20.8	20.7	0.10	1040	7639	1403	3.440	36.400	34.400	-5.49%				
AM13	1900	HEAD	12/16/2023	20.1	19.5	0.10	5d030	7357	1582	4.170	39.800	41.700	4.77%				
AM13	1900	HEAD	12/18/2023	21.8	20.5	0.10	5d030	7357	1582	3.920	39.800	39.200	-1.51%				
AM7	2300	HEAD	12/13/2023	20.3	19.2	0.10	1038	7532	501	4.880	48.600	48.800	0.41%				
AM8	2450	HEAD	12/13/2023	20.3	19.7	0.10	921	7421	604	5.420	54.200	54.200	0.00%				
AM8	2450	HEAD	12/15/2023	20.9	19.1	0.10	921	7421	604	5.100	54.200	51.000	-5.90%				
AM7	2450	HEAD	12/22/2023	20.8	22.0	0.10	921	7532	501	5.260	54.200	52.600	-2.95%				
AM12	2450	HEAD	12/26/2023	22.5	22.8	0.10	750	7546	1402	5.420	52.600	54.200	3.04%				
AM8	2450	HEAD	02/21/2024	21.5	19.9	0.10	921	7421	604	5.370	54.200	53.700	-0.92%				
AM12	2600	HEAD	12/20/2023	23.5	22.6	0.10	1042	7546	1402	5.590	55.800	55.900	0.18%				
AM7	2600	HEAD	12/22/2023	20.8	22.0	0.10	1068	7532	501	5.580	56.500	55.800	-1.24%				
AM12	2600	HEAD	12/26/2023	22.5	22.8	0.10	1042	7546	1402	5.830	55.800	58.300	4.48%				
AM7	2600	HEAD	03/02/2024	21.2	21.4	0.10	1068	7532	501	5.670	56.500	56.700	0.35%				
AM3	3500	HEAD	12/10/2023	21.0	23.5	0.10	1126	7782	1646	6.660	67.000	66.600	-0.60%				
AM6	3500	HEAD	12/12/2023	20.3	20.7	0.10	1126	7638	1408	7.020	67.000	70.200	4.78%				
AM6	3500	HEAD	12/18/2023	20.7	21.1	0.10	1055	7638	1408	6.910	66.000	69.100	4.70%				
AM3	3500	HEAD	12/19/2023	23.2	22.2	0.10	1126	7782	1646	7.100	67.000	71.000	5.97%				
AM3	3700	HEAD	12/10/2023	21.0	23.5	0.10	1097	7782	1646	6.820	68.100	68.200	0.15%				
AM6	3700	HEAD	12/12/2023	20.3	20.7	0.10	1097	7638	1408	6.360	68.100	63.600	-6.61%				
AM6	3700	HEAD	12/18/2023	20.7	21.1	0.10	1002	7638	1408	6.650	67.900	66.500	-2.06%				
AM3	3700	HEAD	12/19/2023	23.2	22.2	0.10	1097	7782	1646	7.020	68.100	70.200	3.08%				
AM3	3900	HEAD	12/10/2023	21.0	23.5	0.10	1073	7782	1646	7.130	69.700	71.300	2.30%				
AM6	3900	HEAD	12/12/2023	20.3	20.7	0.10	1073	7638	1408	6.710	69.700	67.100	-3.73%				
AM9	5250	HEAD	12/14/2023	20.4	19.3	0.05	1123	3746	1237	3.740	80.500	74.800	-7.08%				
AM1	5250	HEAD	12/26/2023	21.1	20.6	0.05	1123	3949	1684	3.950	80.500	79.000	-1.86%				
AM9	5600	HEAD	12/14/2023	20.4	19.3	0.05	1123	3746	1237	3.940	83.700	78.800	-5.85%				
AM1	5600	HEAD	12/26/2023	21.1	20.6	0.05	1123	3949	1684	3.990	83.700	79.800	-4.66%				
AM9	5750	HEAD	12/14/2023	20.4	19.3	0.05	1123	3746	1237	3.950	80.500	79.000	-1.86%				
AM1	5750	HEAD	12/26/2023	21.1	20.6	0.05	1123	3949	1684	3.870	80.500	77.400	-3.85%				
AM9	5800	HEAD	12/14/2023	20.4	19.3	0.05	1123	3746	1237	3.810	80.500	76.200	-5.34%				
AM1	5800	HEAD	12/26/2023	21.1	20.6	0.05	1123	3949	1684	3.990	80.500	79.800	-0.87%				
AM11	6500	HEAD	12/15/2023	21.3	20.3	0.03	1019	7682	1683	7.740	293.000	309.600	5.67%	35.2	1320	1408	6.67%

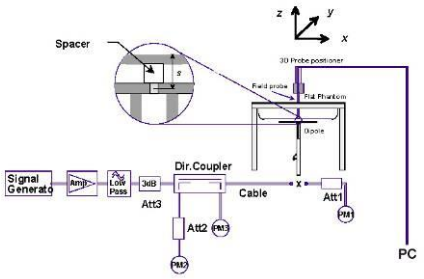


Figure 9-1
System Verification Setup Diagram

Figure 9-2
System Verification Setup Photo

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

9.3 Power Density Test System Verification

The system was verified to be within ±0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

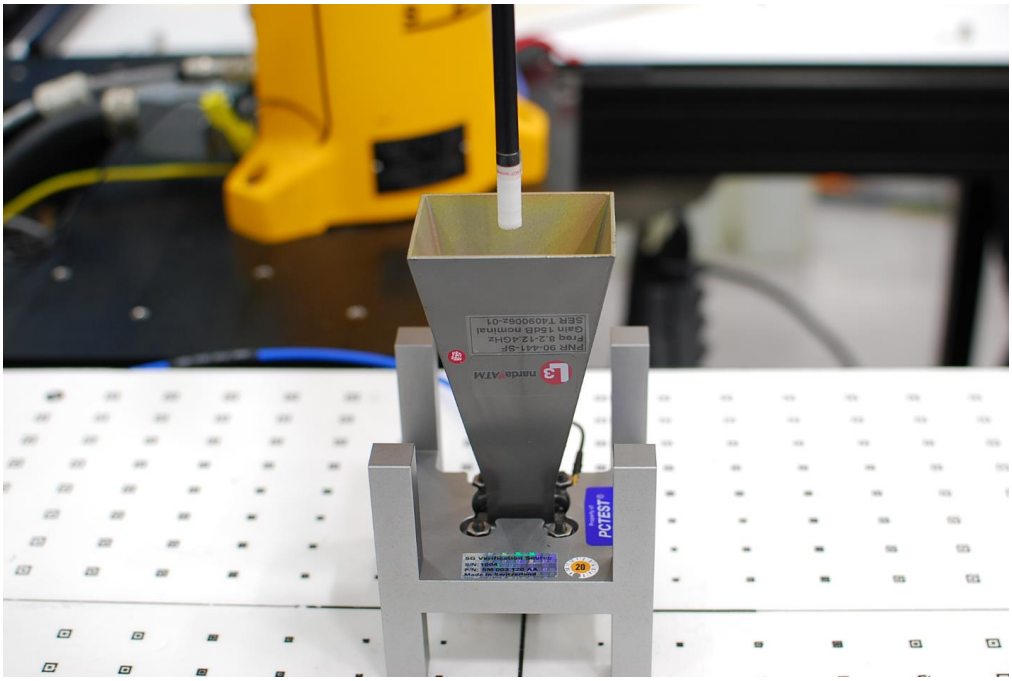


Figure 9-3
System Verification Setup Photo

System Verification											
System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m² over 4 cm²)		Deviation (dB)	Total psPD (W/m² over 4 cm²)		Deviation (dB)
						Measured	Target		Measured	Target	
AM5	10	12/13/2023	1006	9532	93.3	54.10	58.50	-0.34	54.30	58.90	-0.35

Table 9-3
10 GHz Verification Results

Note: A **10 mm distance spacing** was used from the reference horn antenna aperture to the probe element.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

10 SAR DATA SUMMARY

10.1 UMTS 850 Standalone SAR

Table 10-1 Antenna 2

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	2	5066	1:1	-0.01	826.40	4132	19.80	19.39	Back	0	0.827	0.430	1.099	0.909	0.473		19.2	
Body	UMTS 850	RMC	2	5066	1:1	-0.01	836.60	4183	19.80	19.26	Back	0	0.788	0.409	1.132	0.892	0.463		19.3	
Body	UMTS 850	RMC	2	5066	1:1	0.01	846.60	4233	19.80	19.33	Back	0	0.728	0.375	1.114	0.811	0.418		19.7	
Body	UMTS 850	RMC	2	5066	1:1	0.07	826.40	4132	19.80	19.39	Top	0	0.044	0.016	1.099	0.048	0.018		31.9	
Body	UMTS 850	RMC	2	5066	1:1	0.03	826.40	4132	19.80	19.39	Bottom	0	0.705	0.280	1.099	0.775	0.308		19.9	
Body	UMTS 850	RMC	2	5066	1:1	0.01	836.60	4183	19.80	19.26	Bottom	0	0.698	0.278	1.132	0.790	0.315		19.8	19.0
Body	UMTS 850	RMC	2	5066	1:1	-0.04	846.60	4233	19.80	19.33	Bottom	0	0.738	0.296	1.114	0.822	0.330		19.6	
Body	UMTS 850	RMC	2	5066	1:1	0.00	826.40	4132	19.80	19.39	Right	0	0.824	0.298	1.099	0.906	0.328		19.2	
Body	UMTS 850	RMC	2	5066	1:1	0.04	836.60	4183	19.80	19.26	Right	0	0.840	0.322	1.132	0.951	0.365	A1	19.0	
Body	UMTS 850	RMC	2	5066	1:1	0.04	846.60	4233	19.80	19.33	Right	0	0.806	0.310	1.114	0.898	0.345		19.2	
Body	UMTS 850	RMC	2	5066	1:1	0.02	826.40	4132	19.80	19.39	Left	0	0.040	0.018	1.099	0.044	0.020		32.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-2 Antenna 4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	4	K9W21	1:1	0.00	826.40	4132	20.00	19.19	Back	0	0.754	0.345	1.205	0.909	0.416		19.4	
Body	UMTS 850	RMC	4	K9W21	1:1	0.08	836.60	4183	20.00	19.21	Back	0	0.733	0.332	1.199	0.879	0.398		19.5	
Body	UMTS 850	RMC	4	K9W21	1:1	0.08	846.60	4233	20.00	19.08	Back	0	0.678	0.309	1.236	0.838	0.382		19.7	
Body	UMTS 850	RMC	4	K9W21	1:1	-0.10	826.40	4132	20.00	19.19	Top	0	0.641	0.251	1.205	0.772	0.302		20.1	
Body	UMTS 850	RMC	4	K9W21	1:1	-0.20	836.60	4183	20.00	19.21	Top	0	0.597	0.239	1.199	0.716	0.287		20.4	
Body	UMTS 850	RMC	4	K9W21	1:1	-0.05	846.60	4233	20.00	19.08	Top	0	0.609	0.244	1.236	0.753	0.302		20.2	
Body	UMTS 850	RMC	4	K9W21	1:1	0.03	826.40	4132	20.00	19.19	Bottom	0	0.030	0.012	1.205	0.036	0.014		33.4	
Body	UMTS 850	RMC	4	K9W21	1:1	-0.07	836.60	4183	20.00	19.21	Bottom	0	0.031	0.012	1.199	0.037	0.014		33.3	19.4
Body	UMTS 850	RMC	4	K9W21	1:1	-0.18	846.60	4233	20.00	19.08	Bottom	0	0.031	0.013	1.236	0.038	0.016		33.1	
Body	UMTS 850	RMC	4	K9W21	1:1	0.17	826.40	4132	20.00	19.19	Right	0	0.029	0.014	1.205	0.035	0.017		33.5	
Body	UMTS 850	RMC	4	K9W21	1:1	0.00	836.60	4183	20.00	19.21	Right	0	0.048	0.022	1.199	0.058	0.026		31.4	
Body	UMTS 850	RMC	4	K9W21	1:1	-0.02	846.60	4233	20.00	19.08	Right	0	0.047	0.021	1.236	0.058	0.026		31.3	
Body	UMTS 850	RMC	4	K9W21	1:1	0.03	826.40	4132	20.00	19.19	Left	0	0.751	0.260	1.205	0.905	0.313		19.4	
Body	UMTS 850	RMC	4	K9W21	1:1	0.07	836.60	4183	20.00	19.21	Left	0	0.758	0.277	1.199	0.909	0.332		19.4	
Body	UMTS 850	RMC	4	K9W21	1:1	0.01	846.60	4233	20.00	19.08	Left	0	0.740	0.270	1.236	0.915	0.334		19.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.2 UMTS 1750 Standalone SAR

Table 10-3 Antenna 1b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	1b	QQJKG	1:1	-0.02	1712.40	1312	13.00	12.17	Back	0	0.646	0.255	1.211	0.782	0.309		13.0	
Body	UMTS 1750	RMC	1b	QQJKG	1:1	-0.03	1732.40	1412	13.00	12.15	Back	0	0.661	0.262	1.216	0.804	0.319		12.9	
Body	UMTS 1750	RMC	1b	QQJKG	1:1	-0.01	1752.60	1513	13.00	12.36	Back	0	0.692	0.273	1.159	0.802	0.316		12.9	
Body	UMTS 1750	RMC	1b	QQJKG	1:1	0.01	1752.60	1513	13.00	12.36	Top	0	0.000	0.000	1.159	0.000	0.000		51.3	12.9
Body	UMTS 1750	RMC	1b	QQJKG	1:1	0.00	1752.60	1513	13.00	12.36	Bottom	0	0.660	0.241	1.159	0.765	0.279		13.1	
Body	UMTS 1750	RMC	1b	QQJKG	1:1	0.02	1752.60	1513	13.00	12.36	Right	0	0.009	0.003	1.159	0.010	0.003		31.8	
Body	UMTS 1750	RMC	1b	QQJKG	1:1	0.03	1752.60	1513	13.00	12.36	Left	0	0.029	0.012	1.159	0.034	0.014		26.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-4 Antenna 2

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	2	JGQGX	1:1	-0.01	1712.40	1312	15.50	14.58	Back	0	0.742	0.323	1.236	0.917	0.399		14.9	
Body	UMTS 1750	RMC	2	JGQGX	1:1	0.00	1732.40	1412	15.50	14.50	Back	0	0.700	0.305	1.259	0.881	0.384		15.0	
Body	UMTS 1750	RMC	2	JGQGX	1:1	-0.01	1752.60	1513	15.50	14.49	Back	0	0.673	0.293	1.262	0.849	0.370		15.2	
Body	UMTS 1750	RMC	2	JGQGX	1:1	0.06	1712.40	1312	15.50	14.58	Top	0	0.001	0.000	1.236	0.001	0.000		43.6	
Body	UMTS 1750	RMC	2	JGQGX	1:1	0.00	1712.40	1312	15.50	14.58	Bottom	0	0.318	0.127	1.236	0.393	0.157		18.5	14.9
Body	UMTS 1750	RMC	2	JGQGX	1:1	-0.02	1712.40	1312	15.50	14.58	Right	0	0.685	0.220	1.236	0.847	0.272		15.2	
Body	UMTS 1750	RMC	2	JGQGX	1:1	-0.04	1732.40	1412	15.50	14.50	Right	0	0.693	0.227	1.259	0.872	0.286		15.1	
Body	UMTS 1750	RMC	2	JGQGX	1:1	0.03	1752.60	1513	15.50	14.49	Right	0	0.711	0.233	1.262	0.897	0.294		15.0	
Body	UMTS 1750	RMC	2	JGQGX	1:1	-0.20	1712.40	1312	15.50	14.58	Left	0	0.012	0.005	1.236	0.015	0.006		32.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-5 Antenna 3b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	3b	HQ547	1:1	-0.01	1732.40	1412	13.50	13.06	Back	0	0.410	0.170	1.107	0.454	0.188		15.9	
Body	UMTS 1750	RMC	3b	HQ547	1:1	-0.02	1712.40	1312	13.50	12.94	Top	0	0.732	0.265	1.138	0.833	0.302		13.3	
Body	UMTS 1750	RMC	3b	HQ547	1:1	-0.01	1732.40	1412	13.50	13.06	Top	0	0.786	0.284	1.107	0.870	0.314		13.1	
Body	UMTS 1750	RMC	3b	HQ547	1:1	-0.05	1752.60	1513	13.50	12.98	Top	0	0.810	0.292	1.127	0.913	0.329	A2	12.9	12.9
Body	UMTS 1750	RMC	3b	HQ547	1:1	0.06	1732.40	1412	13.50	13.06	Bottom	0	0.000	0.000	1.107	0.000	0.000		52.0	
Body	UMTS 1750	RMC	3b	HQ547	1:1	-0.14	1732.40	1412	13.50	13.06	Right	0	0.041	0.019	1.107	0.045	0.021		25.9	
Body	UMTS 1750	RMC	3b	HQ547	1:1	-0.15	1732.40	1412	13.50	13.06	Left	0	0.008	0.003	1.107	0.009	0.003		33.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-6 Antenna 4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	4	QQJKG	1:1	-0.05	1712.40	1312	15.60	14.47	Back	0	0.752	0.301	1.297	0.975	0.390		14.7	
Body	UMTS 1750	RMC	4	QQJKG	1:1	-0.03	1732.40	1412	15.60	14.38	Back	0	0.702	0.279	1.324	0.929	0.369		14.9	
Body	UMTS 1750	RMC	4	QQJKG	1:1	-0.04	1752.60	1513	15.60	14.59	Back	0	0.724	0.285	1.262	0.914	0.360		15.0	
Body	UMTS 1750	RMC	4	QQJKG	1:1	-0.02	1712.40	1312	15.60	14.47	Top	0	0.512	0.214	1.297	0.664	0.278		16.4	
Body	UMTS 1750	RMC	4	QQJKG	1:1	-0.02	1732.40	1412	15.60	14.38	Top	0	0.476	0.198	1.324	0.630	0.262		16.6	
Body	UMTS 1750	RMC	4	QQJKG	1:1	0.00	1752.60	1513	15.60	14.59	Top	0	0.512	0.213	1.262	0.646	0.269		16.5	14.7
Body	UMTS 1750	RMC	4	QQJKG	1:1	0.05	1752.60	1513	15.60	14.59	Bottom	0	0.005	0.002	1.262	0.006	0.003		36.6	
Body	UMTS 1750	RMC	4	QQJKG	1:1	0.06	1752.60	1513	15.60	14.59	Right	0	0.005	0.002	1.262	0.006	0.003		36.6	
Body	UMTS 1750	RMC	4	QQJKG	1:1	0.02	1712.40	1312	15.60	14.47	Left	0	0.683	0.249	1.297	0.886	0.323		15.1	
Body	UMTS 1750	RMC	4	QQJKG	1:1	-0.02	1732.40	1412	15.60	14.38	Left	0	0.661	0.242	1.324	0.875	0.320		15.2	
Body	UMTS 1750	RMC	4	QQJKG	1:1	-0.02	1752.60	1513	15.60	14.59	Left	0	0.709	0.259	1.262	0.895	0.327		15.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.3 UMTS 1900 Standalone SAR

Table 10-7 Antenna 1b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	1b	K9W21	1:1	-0.02	1852.40	9262	11.90	11.31	Back	0	0.811	0.306	1.146	0.929	0.351		11.2	
Body	UMTS 1900	RMC	1b	K9W21	1:1	0.00	1880.00	9400	11.90	11.29	Back	0	0.838	0.314	1.151	0.965	0.361	A3	11.0	
Body	UMTS 1900	RMC	1b	K9W21	1:1	-0.02	1880.00	9400	11.90	11.29	Back	0	0.776	0.294	1.151	0.893	0.338		11.4	
Body	UMTS 1900	RMC	1b	K9W21	1:1	0.02	1907.60	9538	11.90	11.28	Back	0	0.822	0.307	1.153	0.948	0.354		11.1	
Body	UMTS 1900	RMC	1b	K9W21	1:1	0.02	1852.40	9262	11.90	11.31	Top	0	0.000	0.000	1.146	0.000	0.000		50.3	11.0
Body	UMTS 1900	RMC	1b	K9W21	1:1	-0.05	1852.40	9262	11.90	11.31	Bottom	0	0.391	0.148	1.146	0.448	0.170		14.4	
Body	UMTS 1900	RMC	1b	K9W21	1:1	0.08	1852.40	9262	11.90	11.31	Right	0	0.004	0.000	1.146	0.005	0.000		34.3	
Body	UMTS 1900	RMC	1b	K9W21	1:1	-0.04	1852.40	9262	11.90	11.31	Left	0	0.027	0.011	1.146	0.031	0.013		26.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-8 Antenna 2

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	2	JGQGX	1:1	0.00	1852.40	9262	15.60	14.65	Back	0	0.713	0.293	1.245	0.888	0.365		15.1	
Body	UMTS 1900	RMC	2	JGQGX	1:1	0.03	1880.00	9400	15.60	14.53	Back	0	0.677	0.275	1.279	0.866	0.352		15.2	
Body	UMTS 1900	RMC	2	JGQGX	1:1	-0.02	1907.60	9538	15.60	14.49	Back	0	0.678	0.271	1.291	0.875	0.350		15.2	
Body	UMTS 1900	RMC	2	JGQGX	1:1	0.08	1852.40	9262	15.60	14.65	Top	0	0.002	0.000	1.245	0.002	0.000		40.6	15.1
Body	UMTS 1900	RMC	2	JGQGX	1:1	0.01	1852.40	9262	15.60	14.65	Bottom	0	0.261	0.114	1.245	0.325	0.142		19.5	
Body	UMTS 1900	RMC	2	JGQGX	1:1	-0.04	1852.40	9262	15.60	14.65	Right	0	0.551	0.192	1.245	0.686	0.239		16.2	
Body	UMTS 1900	RMC	2	JGQGX	1:1	0.08	1852.40	9262	15.60	14.65	Left	0	0.002	0.000	1.245	0.002	0.000		40.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-9 Antenna 3b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	3b	JGQGX	1:1	0.01	1852.40	9262	13.00	11.82	Back	0	0.573	0.234	1.312	0.752	0.307		13.2	
Body	UMTS 1900	RMC	3b	JGQGX	1:1	-0.01	1852.40	9262	13.00	11.82	Top	0	0.718	0.256	1.312	0.942	0.336		12.2	
Body	UMTS 1900	RMC	3b	JGQGX	1:1	0.00	1880.00	9400	13.00	11.67	Top	0	0.722	0.257	1.358	0.980	0.349		12.1	
Body	UMTS 1900	RMC	3b	JGQGX	1:1	0.00	1907.60	9538	13.00	11.72	Top	0	0.739	0.263	1.343	0.992	0.353		12.0	12.0
Body	UMTS 1900	RMC	3b	JGQGX	1:1	0.05	1852.40	9262	13.00	11.82	Bottom	0	0.001	0.000	1.312	0.001	0.000		40.8	
Body	UMTS 1900	RMC	3b	JGQGX	1:1	-0.03	1852.40	9262	13.00	11.82	Right	0	0.035	0.015	1.312	0.046	0.020		25.4	
Body	UMTS 1900	RMC	3b	JGQGX	1:1	0.03	1852.40	9262	13.00	11.82	Left	0	0.013	0.005	1.312	0.017	0.007		29.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-10 Antenna 4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	4	HQ547	1:1	0.02	1852.40	9262	14.70	13.78	Back	0	0.762	0.324	1.236	0.942	0.400		13.9	
Body	UMTS 1900	RMC	4	HQ547	1:1	0.01	1880.00	9400	14.70	13.81	Back	0	0.716	0.302	1.227	0.879	0.371		14.2	
Body	UMTS 1900	RMC	4	HQ547	1:1	0.02	1907.60	9538	14.70	13.84	Back	0	0.679	0.282	1.219	0.828	0.344		14.5	
Body	UMTS 1900	RMC	4	HQ547	1:1	0.00	1907.60	9538	14.70	13.84	Top	0	0.366	0.144	1.219	0.446	0.176		17.2	
Body	UMTS 1900	RMC	4	HQ547	1:1	0.01	1907.60	9538	14.70	13.84	Bottom	0	0.000	0.000	1.219	0.000	0.000		52.8	13.9
Body	UMTS 1900	RMC	4	HQ547	1:1	0.08	1907.60	9538	14.70	13.84	Right	0	0.004	0.002	1.219	0.005	0.002		36.8	
Body	UMTS 1900	RMC	4	HQ547	1:1	0.01	1852.40	9262	14.70	13.78	Left	0	0.685	0.247	1.236	0.847	0.305		14.4	
Body	UMTS 1900	RMC	4	HQ547	1:1	-0.01	1880.00	9400	14.70	13.81	Left	0	0.707	0.248	1.227	0.867	0.304		14.3	
Body	UMTS 1900	RMC	4	HQ547	1:1	0.01	1907.60	9538	14.70	13.84	Left	0	0.689	0.240	1.219	0.840	0.293		14.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.4 LTE Band 71 Standalone SAR

Table 10-11 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	-0.05	680.50	133297	0.0	21.20	20.01	1	0	Back	0	0.711	0.331	1.315	0.935	0.435		20.5	
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	-0.01	680.50	133297	0.0	21.20	19.92	50	25	Back	0	0.697	0.301	1.343	0.936	0.404		20.5	
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	-0.01	680.50	133297	0.0	21.20	19.91	100	0	Back	0	0.727	0.306	1.346	0.979	0.412	A4	20.3	
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	0.02	680.50	133297	0.0	21.20	20.01	1	0	Top	0	0.011	0.004	1.315	0.014	0.005		38.6	
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	0.01	680.50	133297	0.0	21.20	19.92	50	25	Top	0	0.015	0.005	1.343	0.020	0.007		37.1	
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	-0.07	680.50	133297	0.0	21.20	20.01	1	0	Bottom	0	0.722	0.279	1.315	0.949	0.367		20.4	
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	-0.04	680.50	133297	0.0	21.20	19.92	50	25	Bottom	0	0.706	0.272	1.343	0.948	0.365		20.4	20.3
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	-0.13	680.50	133297	0.0	21.20	19.91	100	0	Bottom	0	0.708	0.274	1.346	0.953	0.369		20.4	
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	0.01	680.50	133297	0.0	21.20	20.01	1	0	Right	0	0.593	0.218	1.315	0.780	0.287		21.3	
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	-0.03	680.50	133297	0.0	21.20	19.92	50	25	Right	0	0.518	0.202	1.343	0.696	0.271		21.8	
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	0.03	680.50	133297	0.0	21.20	20.01	1	0	Left	0	0.045	0.019	1.315	0.059	0.025		32.5	
Body	LTE Band 71	20	QPSK	2	WR4CD	1:1	-0.13	680.50	133297	0.0	21.20	19.92	50	25	Left	0	0.032	0.013	1.343	0.043	0.017		33.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-12 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 71	20	QPSK	4	366K	1:1	0.01	680.50	133297	0.0	21.00	19.65	1	50	Back	0	0.725	0.308	1.365	0.990	0.420		20.0	20.0
Body	LTE Band 71	20	QPSK	4	366K	1:1	0.00	680.50	133297	0.0	21.00	19.58	50	25	Back	0	0.712	0.304	1.387	0.988	0.422		20.0	
Body	LTE Band 71	20	QPSK	4	366K	1:1	0.01	680.50	133297	0.0	21.00	19.54	100	0	Back	0	0.705	0.303	1.400	0.987	0.424		20.0	
Body	LTE Band 71	20	QPSK	4	366K	1:1	0.01	680.50	133297	0.0	21.00	19.65	1	50	Top	0	0.667	0.252	1.365	0.910	0.344		20.4	
Body	LTE Band 71	20	QPSK	4	366K	1:1	-0.02	680.50	133297	0.0	21.00	19.58	50	25	Top	0	0.642	0.243	1.387	0.890	0.337		20.5	
Body	LTE Band 71	20	QPSK	4	366K	1:1	-0.01	680.50	133297	0.0	21.00	19.54	100	0	Top	0	0.644	0.243	1.400	0.902	0.340		20.4	
Body	LTE Band 71	20	QPSK	4	366K	1:1	0.01	680.50	133297	0.0	21.00	19.65	1	50	Bottom	0	0.012	0.005	1.365	0.016	0.007		37.8	
Body	LTE Band 71	20	QPSK	4	366K	1:1	0.17	680.50	133297	0.0	21.00	19.58	50	25	Bottom	0	0.018	0.007	1.387	0.025	0.010		36.0	
Body	LTE Band 71	20	QPSK	4	366K	1:1	0.11	680.50	133297	0.0	21.00	19.65	1	50	Right	0	0.035	0.015	1.365	0.048	0.020		33.2	
Body	LTE Band 71	20	QPSK	4	366K	1:1	0.00	680.50	133297	0.0	21.00	19.58	50	25	Right	0	0.033	0.014	1.387	0.046	0.019		33.4	
Body	LTE Band 71	20	QPSK	4	366K	1:1	-0.01	680.50	133297	0.0	21.00	19.65	1	50	Left	0	0.450	0.175	1.365	0.614	0.239		22.1	
Body	LTE Band 71	20	QPSK	4	366K	1:1	-0.04	680.50	133297	0.0	21.00	19.58	50	25	Left	0	0.442	0.170	1.387	0.613	0.236		22.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.5 LTE Band 12 Standalone SAR

Table 10-13 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 12	10	QPSK	2	7G6K7	1:1	0.10	707.50	23095	0.0	20.30	19.82	1	0	Back	0	0.871	0.461	1.117	0.973	0.515		19.4	19.4
Body	LTE Band 12	10	QPSK	2	7G6K7	1:1	-0.02	707.50	23095	0.0	20.30	19.69	25	12	Back	0	0.768	0.363	1.151	0.884	0.418		19.8	
Body	LTE Band 12	10	QPSK	2	7G6K7	1:1	-0.01	707.50	23095	0.0	20.30	19.65	50	0	Back	0	0.753	0.363	1.161	0.874	0.421		19.9	
Body	LTE Band 12	10	QPSK	2	7G6K7	1:1	-0.15	707.50	23095	0.0	20.30	19.82	1	0	Top	0	0.017	0.008	1.117	0.019	0.009		36.5	
Body	LTE Band 12	10	QPSK	2	7G6K7	1:1	0.06	707.50	23095	0.0	20.30	19.69	25	12	Top	0	0.015	0.007	1.151	0.017	0.008		36.9	
Body	LTE Band 12	10	QPSK	2	7G6K7	1:1	-0.13	707.50	23095	0.0	20.30	19.82	1	0	Bottom	0	0.513	0.225	1.117	0.573	0.251		21.7	
Body	LTE Band 12	10	QPSK	2	7G6K7	1:1	-0.06	707.50	23095	0.0	20.30	19.69	25	12	Bottom	0	0.508	0.226	1.151	0.585	0.260		21.6	
Body	LTE Band 12	10	QPSK	2	7G6K7	1:1	-0.17	707.50	23095	0.0	20.30	19.82	1	0	Right	0	0.481	0.191	1.117	0.537	0.213		22.0	
Body	LTE Band 12	10	QPSK	2	7G6K7	1:1	-0.06	707.50	23095	0.0	20.30	19.69	25	12	Right	0	0.453	0.183	1.151	0.521	0.211		22.1	
Body	LTE Band 12	10	QPSK	2	7G6K7	1:1	0.03	707.50	23095	0.0	20.30	19.82	1	0	Left	0	0.030	0.014	1.117	0.034	0.016		34.0	
Body	LTE Band 12	10	QPSK	2	7G6K7	1:1	-0.01	707.50	23095	0.0	20.30	19.69	25	12	Left	0	0.027	0.013	1.151	0.031	0.015		34.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-14 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 12	10	QPSK	4	122JP	1:1	-0.02	707.50	23095	0.0	20.10	19.46	1	0	Back	0	0.758	0.358	1.159	0.879	0.415		19.6	19.1
Body	LTE Band 12	10	QPSK	4	122JP	1:1	-0.01	707.50	23095	0.0	20.10	19.55	25	0	Back	0	0.873	0.373	1.135	0.991	0.423	A5	19.1	
Body	LTE Band 12	10	QPSK	4	122JP	1:1	-0.07	707.50	23095	0.0	20.10	19.55	25	0	Back	0	0.799	0.404	1.135	0.907	0.459		19.5	
Body	LTE Band 12	10	QPSK	4	122JP	1:1	-0.01	707.50	23095	0.0	20.10	19.42	50	0	Back	0	0.850	0.373	1.169	0.994	0.436		19.1	
Body	LTE Band 12	10	QPSK	4	122JP	1:1	-0.02	707.50	23095	0.0	20.10	19.46	1	0	Top	0	0.617	0.237	1.159	0.715	0.275		20.5	
Body	LTE Band 12	10	QPSK	4	122JP	1:1	-0.04	707.50	23095	0.0	20.10	19.55	25	0	Top	0	0.592	0.228	1.135	0.672	0.259		20.8	
Body	LTE Band 12	10	QPSK	4	122JP	1:1	-0.02	707.50	23095	0.0	20.10	19.42	50	0	Top	0	0.584	0.226	1.169	0.683	0.264		20.7	
Body	LTE Band 12	10	QPSK	4	122JP	1:1	0.08	707.50	23095	0.0	20.10	19.46	1	0	Bottom	0	0.009	0.004	1.159	0.010	0.005		38.9	
Body	LTE Band 12	10	QPSK	4	122JP	1:1	0.03	707.50	23095	0.0	20.10	19.55	25	0	Bottom	0	0.010	0.004	1.135	0.011	0.005		38.5	
Body	LTE Band 12	10	QPSK	4	122JP	1:1	0.03	707.50	23095	0.0	20.10	19.46	1	0	Right	0	0.018	0.009	1.159	0.021	0.010		35.9	
Body	LTE Band 12	10	QPSK	4	122JP	1:1	0.05	707.50	23095	0.0	20.10	19.55	25	0	Right	0	0.015	0.008	1.135	0.017	0.009		36.8	
Body	LTE Band 12	10	QPSK	4	122JP	1:1	-0.05	707.50	23095	0.0	20.10	19.46	1	0	Left	0	0.440	0.158	1.159	0.510	0.183		22.0	
Body	LTE Band 12	10	QPSK	4	122JP	1:1	-0.03	707.50	23095	0.0	20.10	19.55	25	0	Left	0	0.438	0.159	1.135	0.497	0.180		22.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.6 LTE Band 13 Standalone SAR

Table 10-15 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	-0.08	782.00	23230	0.0	20.20	19.33	1	0	Back	0	0.664	0.309	1.222	0.811	0.378		20.1	
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	0.00	782.00	23230	0.0	20.20	19.38	25	12	Back	0	0.723	0.357	1.208	0.873	0.431		19.8	
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	-0.01	782.00	23230	0.0	20.20	19.15	50	0	Back	0	0.715	0.352	1.274	0.911	0.448		19.6	
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	0.15	782.00	23230	0.0	20.20	19.33	1	0	Top	0	0.030	0.012	1.222	0.037	0.015		33.5	
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	-0.10	782.00	23230	0.0	20.20	19.38	25	12	Top	0	0.023	0.009	1.208	0.028	0.011		34.7	
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	-0.02	782.00	23230	0.0	20.20	19.33	1	0	Bottom	0	0.673	0.264	1.222	0.822	0.323		20.0	
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	0.00	782.00	23230	0.0	20.20	19.38	25	12	Bottom	0	0.669	0.262	1.208	0.808	0.316		20.1	19.4
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	-0.02	782.00	23230	0.0	20.20	19.15	50	0	Bottom	0	0.670	0.265	1.274	0.854	0.338		19.9	
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	-0.01	782.00	23230	0.0	20.20	19.33	1	0	Right	0	0.741	0.268	1.222	0.906	0.327		19.6	
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	0.00	782.00	23230	0.0	20.20	19.38	25	12	Right	0	0.722	0.265	1.208	0.872	0.320		19.8	
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	0.01	782.00	23230	0.0	20.20	19.15	50	0	Right	0	0.754	0.270	1.274	0.961	0.344	A6	19.4	
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	0.04	782.00	23230	0.0	20.20	19.33	1	0	Left	0	0.036	0.017	1.222	0.044	0.021		32.7	
Body	LTE Band 13	10	QPSK	2	7G6K7	1:1	-0.08	782.00	23230	0.0	20.20	19.38	25	12	Left	0	0.043	0.021	1.208	0.052	0.025		32.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-16 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	0.04	782.00	23230	0.0	21.80	20.53	1	0	Back	0	0.720	0.352	1.340	0.965	0.472		20.9	
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	0.01	782.00	23230	0.0	21.80	20.33	25	12	Back	0	0.606	0.287	1.403	0.850	0.403		21.5	
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	-0.09	782.00	23230	0.0	21.80	20.31	50	0	Back	0	0.689	0.321	1.409	0.971	0.452		20.9	
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	0.12	782.00	23230	0.0	21.80	20.53	1	0	Top	0	0.528	0.220	1.340	0.708	0.295		22.3	
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	0.01	782.00	23230	0.0	21.80	20.33	25	12	Top	0	0.495	0.207	1.403	0.694	0.290		22.4	
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	0.07	782.00	23230	0.0	21.80	20.53	1	0	Bottom	0	0.021	0.010	1.340	0.028	0.013		36.3	
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	-0.02	782.00	23230	0.0	21.80	20.33	25	12	Bottom	0	0.019	0.009	1.403	0.027	0.013		36.5	20.9
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	0.05	782.00	23230	0.0	21.80	20.53	1	0	Right	0	0.042	0.020	1.340	0.056	0.027		33.3	
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	-0.04	782.00	23230	0.0	21.80	20.33	25	12	Right	0	0.039	0.018	1.403	0.055	0.025		33.4	
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	0.15	782.00	23230	0.0	21.80	20.53	1	0	Left	0	0.575	0.240	1.340	0.771	0.322		21.9	
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	-0.01	782.00	23230	0.0	21.80	20.33	25	12	Left	0	0.539	0.221	1.403	0.756	0.310		22.0	
Body	LTE Band 13	10	QPSK	4	Q2P2R	1:1	0.01	782.00	23230	0.0	21.80	20.31	50	0	Left	0	0.633	0.260	1.409	0.892	0.366		21.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.7 LTE Band 14 Standalone SAR

Table 10-17 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	-0.11	793.00	23330	0.0	20.20	19.34	1	49	Back	0	0.628	0.282	1.219	0.766	0.344		20.3	
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	-0.01	793.00	23330	0.0	20.20	19.26	25	0	Back	0	0.659	0.288	1.242	0.818	0.358		20.1	
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	0.05	793.00	23330	0.0	20.20	19.00	50	0	Back	0	0.668	0.289	1.318	0.880	0.381		19.7	
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	-0.20	793.00	23330	0.0	20.20	19.34	1	49	Top	0	0.021	0.008	1.219	0.026	0.010		35.1	
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	0.04	793.00	23330	0.0	20.20	19.26	25	0	Top	0	0.020	0.008	1.242	0.025	0.010		35.2	
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	0.01	793.00	23330	0.0	20.20	19.34	1	49	Bottom	0	0.629	0.239	1.219	0.767	0.291		20.3	
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	-0.05	793.00	23330	0.0	20.20	19.26	25	0	Bottom	0	0.647	0.248	1.242	0.804	0.308		20.1	19.4
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	0.00	793.00	23330	0.0	20.20	19.00	50	0	Bottom	0	0.640	0.245	1.318	0.844	0.323		19.9	
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	0.17	793.00	23330	0.0	20.20	19.34	1	49	Right	0	0.639	0.236	1.219	0.779	0.288		20.3	
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	0.01	793.00	23330	0.0	20.20	19.26	25	0	Right	0	0.675	0.244	1.242	0.838	0.303		19.9	
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	0.01	793.00	23330	0.0	20.20	19.00	50	0	Right	0	0.721	0.260	1.318	0.950	0.343		19.4	
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	-0.13	793.00	23330	0.0	20.20	19.34	1	49	Left	0	0.018	0.008	1.219	0.022	0.010		35.8	
Body	LTE Band 14	10	QPSK	2	3HHDQ	1:1	0.07	793.00	23330	0.0	20.20	19.26	25	0	Left	0	0.008	0.004	1.242	0.010	0.005		39.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-18 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	0.02	793.00	23330	0.0	21.80	20.84	1	49	Back	0	0.673	0.328	1.247	0.839	0.409		21.5	
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	-0.03	793.00	23330	0.0	21.80	20.91	25	12	Back	0	0.740	0.345	1.227	0.908	0.423	A7	21.2	
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	-0.04	793.00	23330	0.0	21.80	20.83	50	0	Back	0	0.719	0.339	1.250	0.899	0.424		21.2	
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	-0.16	793.00	23330	0.0	21.80	20.84	1	49	Top	0	0.681	0.277	1.247	0.849	0.345		21.5	
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	-0.03	793.00	23330	0.0	21.80	20.91	25	12	Top	0	0.713	0.289	1.227	0.875	0.355		21.4	
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	-0.01	793.00	23330	0.0	21.80	20.83	50	0	Top	0	0.694	0.284	1.250	0.868	0.355		21.4	
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	0.12	793.00	23330	0.0	21.80	20.84	1	49	Bottom	0	0.028	0.012	1.247	0.035	0.015		35.3	21.2
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	0.02	793.00	23330	0.0	21.80	20.91	25	12	Bottom	0	0.030	0.013	1.227	0.037	0.016		35.1	
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	0.09	793.00	23330	0.0	21.80	20.84	1	49	Right	0	0.048	0.022	1.247	0.060	0.027		33.0	
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	-0.12	793.00	23330	0.0	21.80	20.91	25	12	Right	0	0.046	0.021	1.227	0.056	0.026		33.3	
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	-0.04	793.00	23330	0.0	21.80	20.84	1	49	Left	0	0.583	0.248	1.247	0.727	0.309		22.2	
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	0.03	793.00	23330	0.0	21.80	20.91	25	12	Left	0	0.654	0.270	1.227	0.802	0.331		21.7	
Body	LTE Band 14	10	QPSK	4	3HHDQ	1:1	-0.02	793.00	23330	0.0	21.80	20.83	50	0	Left	0	0.648	0.268	1.250	0.810	0.335		21.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.8 LTE Band 26 (Cell) Standalone SAR

Table 10-19 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	-0.15	819.00	26740	0.0	19.80	19.65	1	0	Back	0	0.948	0.440	1.035	0.981	0.455	A8	18.9	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.01	819.00	26740	0.0	19.80	19.65	1	0	Back	0	0.944	0.408	1.035	0.977	0.422		18.9	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.03	831.50	26865	0.0	19.80	19.51	1	0	Back	0	0.890	0.412	1.069	0.951	0.440		19.0	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.01	844.00	26990	0.0	19.80	19.62	1	0	Back	0	0.799	0.369	1.042	0.833	0.384		19.6	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	-0.01	819.00	26740	0.0	19.80	19.61	25	12	Back	0	0.933	0.431	1.045	0.975	0.450		18.9	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	-0.01	831.50	26865	0.0	19.80	19.59	25	12	Back	0	0.850	0.394	1.050	0.893	0.414		19.3	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.00	844.00	26990	0.0	19.80	19.52	25	25	Back	0	0.748	0.346	1.067	0.798	0.369		19.8	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.01	819.00	26740	0.0	19.80	19.58	50	0	Back	0	0.703	0.332	1.052	0.740	0.349		20.1	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.03	819.00	26740	0.0	19.80	19.65	1	0	Top	0	0.040	0.014	1.035	0.041	0.014		32.6	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	-0.07	819.00	26740	0.0	19.80	19.61	25	12	Top	0	0.041	0.014	1.045	0.043	0.015		32.5	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.02	819.00	26740	0.0	19.80	19.65	1	0	Bottom	0	0.670	0.260	1.035	0.693	0.269		20.4	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.12	831.50	26865	0.0	19.80	19.51	1	0	Bottom	0	0.740	0.285	1.069	0.791	0.305		19.8	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	-0.09	844.00	26990	0.0	19.80	19.62	1	0	Bottom	0	0.767	0.295	1.042	0.799	0.307		19.8	18.9
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.03	819.00	26740	0.0	19.80	19.61	25	12	Bottom	0	0.725	0.280	1.045	0.758	0.293		20.0	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	-0.06	831.50	26865	0.0	19.80	19.59	25	12	Bottom	0	0.723	0.280	1.050	0.759	0.294		20.0	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.03	844.00	26990	0.0	19.80	19.52	25	25	Bottom	0	0.735	0.285	1.067	0.784	0.304		19.8	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	-0.02	819.00	26740	0.0	19.80	19.58	50	0	Bottom	0	0.708	0.273	1.052	0.745	0.287		20.1	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.01	819.00	26740	0.0	19.80	19.65	1	0	Right	0	0.816	0.298	1.035	0.845	0.308		19.5	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	-0.04	831.50	26865	0.0	19.80	19.51	1	0	Right	0	0.856	0.313	1.069	0.915	0.335		19.2	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.02	844.00	26990	0.0	19.80	19.62	1	0	Right	0	0.920	0.344	1.042	0.959	0.358		19.0	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.00	819.00	26740	0.0	19.80	19.61	25	12	Right	0	0.855	0.303	1.045	0.893	0.317		19.3	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.04	831.50	26865	0.0	19.80	19.59	25	12	Right	0	0.934	0.337	1.050	0.981	0.354		18.9	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	-0.03	844.00	26990	0.0	19.80	19.52	25	25	Right	0	0.835	0.321	1.067	0.891	0.343		19.3	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	-0.01	819.00	26740	0.0	19.80	19.58	50	0	Right	0	0.763	0.281	1.052	0.803	0.296		19.7	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	0.04	819.00	26740	0.0	19.80	19.65	1	0	Left	0	0.045	0.020	1.035	0.047	0.021		32.1	
Body	LTE Band 26	10	QPSK	2	57NMW	1:1	-0.08	819.00	26740	0.0	19.80	19.61	25	12	Left	0	0.045	0.020	1.045	0.047	0.021		32.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-20 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	-0.01	819.00	26740	0.0	20.00	19.23	1	0	Back	0	0.831	0.384	1.194	0.992	0.458		19.0	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.00	831.50	26865	0.0	20.00	19.24	1	49	Back	0	0.665	0.311	1.191	0.792	0.370		20.0	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	-0.03	844.00	26990	0.0	20.00	18.87	1	25	Back	0	0.614	0.289	1.297	0.796	0.375		20.0	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.02	819.00	26740	0.0	20.00	19.12	25	12	Back	0	0.786	0.367	1.225	0.963	0.450		19.1	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.01	831.50	26865	0.0	20.00	19.13	25	12	Back	0	0.796	0.373	1.222	0.973	0.456		19.1	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.02	844.00	26990	0.0	20.00	18.99	25	25	Back	0	0.624	0.290	1.262	0.787	0.366		20.0	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.00	831.50	26865	0.0	20.00	19.06	50	0	Back	0	0.719	0.333	1.242	0.893	0.414		19.5	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	-0.06	819.00	26740	0.0	20.00	19.23	1	0	Top	0	0.692	0.264	1.194	0.826	0.315		19.8	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.13	831.50	26865	0.0	20.00	19.24	1	49	Top	0	0.700	0.260	1.191	0.834	0.310		19.8	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.05	844.00	26990	0.0	20.00	18.87	1	25	Top	0	0.657	0.249	1.297	0.852	0.323		19.7	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.02	819.00	26740	0.0	20.00	19.12	25	12	Top	0	0.733	0.275	1.225	0.898	0.337		19.4	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.07	831.50	26865	0.0	20.00	19.13	25	12	Top	0	0.672	0.251	1.222	0.821	0.307		19.8	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.03	844.00	26990	0.0	20.00	18.99	25	25	Top	0	0.685	0.258	1.262	0.864	0.326		19.6	19.0
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	-0.01	831.50	26865	0.0	20.00	19.06	50	0	Top	0	0.687	0.256	1.242	0.853	0.318		19.7	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.03	831.50	26865	0.0	20.00	19.24	1	49	Bottom	0	0.027	0.011	1.191	0.032	0.013		33.9	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.09	831.50	26865	0.0	20.00	19.13	25	12	Bottom	0	0.034	0.013	1.222	0.042	0.016		32.8	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.00	831.50	26865	0.0	20.00	19.24	1	49	Right	0	0.038	0.018	1.191	0.045	0.021		32.4	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.01	831.50	26865	0.0	20.00	19.13	25	12	Right	0	0.033	0.015	1.222	0.040	0.018		32.9	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	-0.11	819.00	26740	0.0	20.00	19.23	1	0	Left	0	0.729	0.267	1.194	0.870	0.319		19.6	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	-0.06	831.50	26865	0.0	20.00	19.24	1	49	Left	0	0.682	0.268	1.191	0.812	0.319		19.9	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.14	844.00	26990	0.0	20.00	18.87	1	25	Left	0	0.684	0.259	1.297	0.887	0.336		19.5	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.01	819.00	26740	0.0	20.00	19.12	25	12	Left	0	0.747	0.272	1.225	0.915	0.333		19.4	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.05	831.50	26865	0.0	20.00	19.13	25	12	Left	0	0.730	0.265	1.222	0.892	0.324		19.5	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	0.02	844.00	26990	0.0	20.00	18.99	25	25	Left	0	0.715	0.267	1.262	0.902	0.337		19.4	
Body	LTE Band 26	10	QPSK	4	57NMW	1:1	-0.02	831.50	26865	0.0	20.00	19.06	50	0	Left	0	0.759	0.279	1.242	0.943	0.347		19.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.9 LTE Band 5 (Cell) Standalone SAR

Table 10-21 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	-0.17	836.50	20525	0.0	19.80	19.55	1	49	Back	0	N/A	0.789	0.365	1.059	0.836	0.387		19.6	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	0.00	836.50	20525	0.0	19.80	19.51	25	12	Back	0	N/A	0.797	0.371	1.069	0.852	0.397		19.5	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	-0.05	836.50	20525	0.0	19.80	19.50	50	0	Back	0	N/A	0.796	0.369	1.072	0.853	0.396		19.5	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	0.09	836.50	20525	0.0	19.80	19.55	1	49	Top	0	N/A	0.036	0.013	1.059	0.038	0.014		33.0	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	-0.10	836.50	20525	0.0	19.80	19.51	25	12	Top	0	N/A	0.038	0.014	1.069	0.041	0.015		32.7	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	-0.07	836.50	20525	0.0	19.80	19.55	1	49	Bottom	0	N/A	0.741	0.291	1.059	0.785	0.308		19.8	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	-0.07	836.50	20525	0.0	19.80	19.51	25	12	Bottom	0	N/A	0.686	0.272	1.069	0.733	0.291		20.1	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	-0.04	836.50	20525	0.0	19.80	19.50	50	0	Bottom	0	N/A	0.691	0.272	1.072	0.741	0.292		20.1	18.9
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	-0.01	836.50	20525	0.0	19.80	19.55	1	49	Right	0	N/A	0.921	0.340	1.059	0.975	0.360	A9	18.9	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	-0.04	836.50	20525	0.0	19.80	19.51	25	12	Right	0	N/A	0.909	0.342	1.069	0.972	0.366		18.9	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	-0.02	836.50	20525	0.0	19.80	19.50	50	0	Right	0	N/A	0.906	0.336	1.072	0.971	0.360		18.9	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	0.08	836.50	20525	0.0	19.80	19.55	1	49	Left	0	N/A	0.043	0.019	1.059	0.046	0.020		32.2	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	0.02	836.50	20525	0.0	19.80	19.51	25	12	Left	0	N/A	0.051	0.023	1.069	0.055	0.025		31.4	
Body	LTE Band 5	10	QPSK	2	57NMW	1:1	-0.07	836.50	20525	0.0	19.80	19.47	1	49	Right	0	ULCA 5B	0.912	0.328	1.079	0.984	0.354		18.9	
		5						843.70	20597				1	0											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-22 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	-0.02	836.50	20525	0.0	20.00	19.97	1	25	Back	0	N/A	0.856	0.395	1.007	0.862	0.398		20.6	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	0.02	836.50	20525	0.0	20.00	19.98	25	12	Back	0	N/A	0.897	0.408	1.005	0.901	0.410		20.4	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	-0.04	836.50	20525	0.0	20.00	19.74	25	25	Back	0	N/A	0.800	0.368	1.062	0.850	0.391		19.7	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	0.03	836.50	20525	0.0	20.00	19.95	50	0	Back	0	N/A	0.858	0.391	1.012	0.868	0.396		20.6	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	0.00	836.50	20525	0.0	20.00	19.97	1	25	Top	0	N/A	0.755	0.298	1.007	0.760	0.300		21.1	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	0.01	836.50	20525	0.0	20.00	19.98	25	12	Top	0	N/A	0.778	0.306	1.005	0.782	0.308		21.0	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	0.03	836.50	20525	0.0	20.00	19.95	50	0	Top	0	N/A	0.768	0.303	1.012	0.777	0.307		21.0	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	0.02	836.50	20525	0.0	20.00	19.97	1	25	Bottom	0	N/A	0.044	0.018	1.007	0.044	0.018		33.5	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	-0.07	836.50	20525	0.0	20.00	19.98	25	12	Bottom	0	N/A	0.045	0.019	1.005	0.045	0.019		33.4	19.7
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	0.00	836.50	20525	0.0	20.00	19.97	1	25	Right	0	N/A	0.043	0.020	1.007	0.043	0.020		33.6	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	0.21	836.50	20525	0.0	20.00	19.98	25	12	Right	0	N/A	0.043	0.020	1.005	0.043	0.020		33.6	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	0.05	836.50	20525	0.0	20.00	19.97	1	25	Left	0	N/A	0.838	0.321	1.007	0.844	0.323		20.7	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	-0.02	836.50	20525	0.0	20.00	19.98	25	12	Left	0	N/A	0.867	0.333	1.005	0.871	0.335		20.5	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	0.00	836.50	20525	0.0	20.00	19.95	50	0	Left	0	N/A	0.864	0.324	1.012	0.874	0.328		20.5	
Body	LTE Band 5	10	QPSK	4	K9W21	1:1	-0.06	836.50	20525	0.0	20.00	19.99	25	25	Back	0	ULCA 5B	0.888	0.408	1.002	0.890	0.409		20.5	
		5						843.70	20597				12	0											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.10 LTE Band 66 (AWS) Standalone SAR

Table 10-23 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.00	1720.00	132072	0.0	13.00	12.05	1	50	Back	0	0.610	0.244	1.245	0.759	0.304		13.2	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.08	1745.00	132322	0.0	13.00	12.06	1	50	Back	0	0.621	0.248	1.242	0.771	0.308		13.1	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	-0.04	1770.00	132572	0.0	13.00	11.85	1	50	Back	0	0.652	0.259	1.303	0.850	0.337		12.7	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.01	1720.00	132072	0.0	13.00	12.08	50	50	Back	0	0.621	0.249	1.236	0.768	0.308		13.1	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.00	1745.00	132322	0.0	13.00	12.10	50	25	Back	0	0.625	0.249	1.230	0.769	0.306		13.1	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.00	1770.00	132572	0.0	13.00	12.07	50	50	Back	0	0.673	0.267	1.239	0.834	0.331		12.8	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.08	1720.00	132072	0.0	13.00	12.05	100	0	Back	0	0.688	0.271	1.245	0.857	0.337		12.7	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.01	1745.00	132322	0.0	13.00	12.06	1	50	Top	0	0.000	0.000	1.242	0.000	0.000		51.0	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.09	1745.00	132322	0.0	13.00	12.10	50	25	Top	0	0.000	0.000	1.230	0.000	0.000		51.1	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.02	1720.00	132072	0.0	13.00	12.05	1	50	Bottom	0	0.588	0.216	1.245	0.732	0.269		13.3	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.02	1745.00	132322	0.0	13.00	12.06	1	50	Bottom	0	0.602	0.221	1.242	0.748	0.274		13.2	12.7
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.02	1770.00	132572	0.0	13.00	11.85	1	50	Bottom	0	0.627	0.231	1.303	0.817	0.301		12.9	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.01	1720.00	132072	0.0	13.00	12.08	50	50	Bottom	0	0.589	0.216	1.236	0.728	0.267		13.4	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.00	1745.00	132322	0.0	13.00	12.10	50	25	Bottom	0	0.605	0.222	1.230	0.744	0.273		13.3	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.02	1770.00	132572	0.0	13.00	12.07	50	50	Bottom	0	0.634	0.233	1.239	0.786	0.289		13.0	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	-0.01	1720.00	132072	0.0	13.00	12.05	100	0	Bottom	0	0.585	0.214	1.245	0.728	0.266		13.4	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	-0.21	1745.00	132322	0.0	13.00	12.06	1	50	Right	0	0.019	0.008	1.242	0.024	0.010		28.3	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.05	1745.00	132322	0.0	13.00	12.10	50	25	Right	0	0.018	0.008	1.230	0.022	0.010		28.5	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.00	1745.00	132322	0.0	13.00	12.06	1	50	Left	0	0.034	0.015	1.242	0.042	0.019		25.7	
Body	LTE Band 66	20	QPSK	1b	7G6K7	1:1	0.06	1745.00	132322	0.0	13.00	12.10	50	25	Left	0	0.034	0.015	1.230	0.042	0.018		25.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-24 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	2	0N659	1:1	0.00	1720.00	132072	0.0	15.50	14.60	1	0	Back	0	0.773	0.329	1.230	0.951	0.405		14.7	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	0.06	1745.00	132322	0.0	15.50	14.45	1	0	Back	0	0.749	0.318	1.274	0.954	0.405		14.7	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	-0.02	1770.00	132572	0.0	15.50	14.33	1	0	Back	0	0.640	0.276	1.309	0.838	0.361		15.2	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	0.01	1720.00	132072	0.0	15.50	14.54	50	0	Back	0	0.750	0.321	1.247	0.935	0.400		14.8	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	0.01	1745.00	132322	0.0	15.50	14.49	50	25	Back	0	0.708	0.292	1.262	0.893	0.369		15.0	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	-0.02	1770.00	132572	0.0	15.50	14.41	50	25	Back	0	0.637	0.274	1.285	0.819	0.352		15.3	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	0.09	1720.00	132072	0.0	15.50	14.46	100	0	Back	0	0.574	0.262	1.271	0.730	0.333		15.9	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	-0.09	1720.00	132072	0.0	15.50	14.60	1	0	Top	0	0.000	0.000	1.230	0.000	0.000		53.6	14.7
Body	LTE Band 66	20	QPSK	2	0N659	1:1	0.09	1720.00	132072	0.0	15.50	14.54	50	0	Top	0	0.000	0.000	1.247	0.000	0.000		53.5	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	0.04	1720.00	132072	0.0	15.50	14.60	1	0	Bottom	0	0.284	0.113	1.230	0.349	0.139		19.0	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	-0.06	1720.00	132072	0.0	15.50	14.54	50	0	Bottom	0	0.271	0.108	1.247	0.338	0.135		19.2	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	-0.06	1720.00	132072	0.0	15.50	14.60	1	0	Right	0	0.563	0.181	1.230	0.692	0.223		16.1	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	-0.03	1720.00	132072	0.0	15.50	14.54	50	0	Right	0	0.585	0.185	1.247	0.729	0.231		15.8	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	0.01	1720.00	132072	0.0	15.50	14.60	1	0	Left	0	0.002	0.000	1.230	0.002	0.000		40.6	
Body	LTE Band 66	20	QPSK	2	0N659	1:1	0.07	1720.00	132072	0.0	15.50	14.54	50	0	Left	0	0.003	0.000	1.247	0.004	0.000		38.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-25 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	-0.02	1745.00	132322	0.0	13.50	13.21	1	99	Back	0	0.423	0.174	1.069	0.452	0.186		15.9	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.00	1745.00	132322	0.0	13.50	13.28	50	25	Back	0	0.414	0.171	1.052	0.436	0.180		16.1	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	-0.01	1720.00	132072	0.0	13.50	13.07	1	99	Top	0	0.744	0.279	1.104	0.821	0.308		13.3	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.00	1745.00	132322	0.0	13.50	13.21	1	99	Top	0	0.848	0.310	1.069	0.907	0.331	A10	12.9	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.01	1745.00	132322	0.0	13.50	13.21	1	99	Top	0	0.842	0.312	1.069	0.900	0.334		12.9	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.02	1770.00	132572	0.0	13.50	13.09	1	0	Top	0	0.805	0.301	1.099	0.885	0.331		13.0	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.01	1720.00	132072	0.0	13.50	13.12	50	50	Top	0	0.746	0.278	1.091	0.814	0.303		13.4	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	-0.05	1745.00	132322	0.0	13.50	13.28	50	25	Top	0	0.811	0.300	1.052	0.853	0.316		13.2	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.02	1770.00	132572	0.0	13.50	13.16	50	25	Top	0	0.818	0.304	1.081	0.884	0.329		13.0	12.9
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.01	1745.00	132322	0.0	13.50	13.12	100	0	Top	0	0.805	0.299	1.091	0.878	0.326		13.0	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.08	1745.00	132322	0.0	13.50	13.21	1	99	Bottom	0	0.000	0.000	1.069	0.000	0.000		52.2	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.08	1745.00	132322	0.0	13.50	13.28	50	25	Bottom	0	0.000	0.000	1.052	0.000	0.000		52.3	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.02	1745.00	132322	0.0	13.50	13.21	1	99	Right	0	0.034	0.016	1.069	0.036	0.017		26.9	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.04	1745.00	132322	0.0	13.50	13.28	50	25	Right	0	0.042	0.018	1.052	0.044	0.019		26.0	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.04	1745.00	132322	0.0	13.50	13.21	1	99	Left	0	0.016	0.007	1.069	0.017	0.007		30.1	
Body	LTE Band 66	20	QPSK	3b	HQ547	1:1	0.15	1745.00	132322	0.0	13.50	13.28	50	25	Left	0	0.015	0.007	1.052	0.016	0.007		30.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-26 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	0.02	1720.00	132072	0.0	15.60	14.25	1	50	Back	0	0.691	0.272	1.365	0.943	0.371		14.8	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	-0.02	1745.00	132322	0.0	15.60	14.31	1	50	Back	0	0.682	0.266	1.346	0.918	0.358		15.0	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	-0.05	1770.00	132572	0.0	15.60	13.90	1	50	Back	0	0.638	0.248	1.479	0.944	0.367		14.8	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	0.00	1720.00	132072	0.0	15.60	14.31	50	25	Back	0	0.703	0.276	1.346	0.946	0.371		14.8	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	-0.01	1745.00	132322	0.0	15.60	14.32	50	25	Back	0	0.679	0.265	1.343	0.912	0.356		15.0	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	-0.03	1770.00	132572	0.0	15.60	14.15	50	25	Back	0	0.629	0.243	1.396	0.878	0.339		15.1	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	0.01	1745.00	132322	0.0	15.60	14.26	100	0	Back	0	0.675	0.263	1.361	0.919	0.358		14.9	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	-0.03	1745.00	132322	0.0	15.60	14.31	1	50	Top	0	0.473	0.178	1.346	0.637	0.240		16.5	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	0.03	1745.00	132322	0.0	15.60	14.32	50	25	Top	0	0.470	0.177	1.343	0.631	0.238		16.6	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	0.06	1745.00	132322	0.0	15.60	14.31	1	50	Bottom	0	0.005	0.002	1.346	0.007	0.003		36.3	14.8
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	0.06	1745.00	132322	0.0	15.60	14.32	50	25	Bottom	0	0.004	0.002	1.343	0.005	0.003		37.3	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	0.01	1745.00	132322	0.0	15.60	14.31	1	50	Right	0	0.002	0.000	1.346	0.003	0.000		40.3	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	0.04	1745.00	132322	0.0	15.60	14.32	50	25	Right	0	0.002	0.000	1.343	0.003	0.000		40.3	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	-0.08	1720.00	132072	0.0	15.60	14.25	1	50	Left	0	0.621	0.216	1.365	0.848	0.295		15.3	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	0.03	1745.00	132322	0.0	15.60	14.31	1	50	Left	0	0.661	0.226	1.346	0.890	0.304		15.1	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	0.03	1770.00	132572	0.0	15.60	13.90	1	50	Left	0	0.620	0.212	1.479	0.917	0.314		15.0	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	-0.01	1720.00	132072	0.0	15.60	14.31	50	25	Left	0	0.638	0.217	1.346	0.859	0.292		15.2	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	0.00	1745.00	132322	0.0	15.60	14.32	50	25	Left	0	0.661	0.226	1.343	0.888	0.304		15.1	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	-0.02	1770.00	132572	0.0	15.60	14.15	50	25	Left	0	0.612	0.210	1.396	0.854	0.293		15.3	
Body	LTE Band 66	20	QPSK	4	FHF60	1:1	-0.01	1745.00	132322	0.0	15.60	14.26	100	0	Left	0	0.657	0.224	1.361	0.894	0.305		15.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.11 LTE Band 25 (PCS) Standalone SAR

Table 10-27 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	-0.02	1860.00	26140	0.0	11.90	11.06	1	50	Back	0	0.809	0.304	1.213	0.981	0.369	A11	11.0	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	-0.02	1882.50	26365	0.0	11.90	10.99	1	50	Back	0	0.741	0.284	1.233	0.914	0.350		11.3	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.04	1905.00	26590	0.0	11.90	11.12	1	50	Back	0	0.764	0.291	1.197	0.915	0.348		11.3	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.01	1860.00	26140	0.0	11.90	11.10	50	25	Back	0	0.787	0.302	1.202	0.946	0.363		11.1	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.00	1882.50	26365	0.0	11.90	11.09	50	50	Back	0	0.803	0.303	1.205	0.968	0.365		11.0	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.03	1905.00	26590	0.0	11.90	11.13	50	50	Back	0	0.767	0.294	1.194	0.916	0.351		11.3	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.01	1860.00	26140	0.0	11.90	11.05	100	0	Back	0	0.803	0.304	1.216	0.976	0.370		11.0	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.08	1905.00	26590	0.0	11.90	11.12	1	50	Top	0	0.000	0.000	1.197	0.000	0.000		50.1	11.0
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.01	1905.00	26590	0.0	11.90	11.13	50	50	Top	0	0.000	0.000	1.194	0.000	0.000		50.1	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	-0.01	1905.00	26590	0.0	11.90	11.12	1	50	Bottom	0	0.441	0.159	1.197	0.528	0.190		13.7	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.01	1905.00	26590	0.0	11.90	11.13	50	50	Bottom	0	0.449	0.161	1.194	0.536	0.192		13.6	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.03	1905.00	26590	0.0	11.90	11.12	1	50	Right	0	0.007	0.001	1.197	0.008	0.001		31.6	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.07	1905.00	26590	0.0	11.90	11.13	50	50	Right	0	0.008	0.002	1.194	0.010	0.002		31.1	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.00	1905.00	26590	0.0	11.90	11.12	1	50	Left	0	0.031	0.012	1.197	0.037	0.014		25.2	
Body	LTE Band 25	20	QPSK	1b	LH4LL	1:1	0.02	1905.00	26590	0.0	11.90	11.13	50	50	Left	0	0.029	0.011	1.194	0.035	0.013		25.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-28 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.01	1860.00	26140	0.0	15.60	14.28	1	50	Back	0	0.703	0.284	1.355	0.953	0.385		14.8	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.00	1882.50	26365	0.0	15.60	14.58	1	50	Back	0	0.681	0.260	1.265	0.861	0.329		15.2	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.04	1905.00	26590	0.0	15.60	14.51	1	50	Back	0	0.681	0.271	1.285	0.875	0.348		15.2	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.04	1860.00	26140	0.0	15.60	14.54	50	25	Back	0	0.704	0.288	1.276	0.898	0.367		15.0	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.03	1882.50	26365	0.0	15.60	14.61	50	25	Back	0	0.705	0.269	1.256	0.885	0.338		15.1	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.02	1905.00	26590	0.0	15.60	14.56	50	25	Back	0	0.686	0.276	1.271	0.872	0.351		15.2	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.03	1882.50	26365	0.0	15.60	14.55	100	0	Back	0	0.693	0.265	1.274	0.883	0.338		15.1	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.03	1882.50	26365	0.0	15.60	14.58	1	50	Top	0	0.000	0.000	1.265	0.000	0.000		53.6	14.8
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.01	1882.50	26365	0.0	15.60	14.61	50	25	Top	0	0.000	0.000	1.256	0.000	0.000		53.6	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	-0.02	1882.50	26365	0.0	15.60	14.58	1	50	Bottom	0	0.248	0.091	1.265	0.314	0.115		19.6	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.02	1882.50	26365	0.0	15.60	14.61	50	25	Bottom	0	0.253	0.093	1.256	0.318	0.117		19.6	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	-0.01	1882.50	26365	0.0	15.60	14.58	1	50	Right	0	0.558	0.183	1.265	0.706	0.231		16.1	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.02	1882.50	26365	0.0	15.60	14.61	50	25	Right	0	0.572	0.176	1.256	0.718	0.221		16.0	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.02	1882.50	26365	0.0	15.60	14.58	1	50	Left	0	0.002	0.000	1.265	0.003	0.000		40.6	
Body	LTE Band 25	20	QPSK	2	JGQGX	1:1	0.01	1882.50	26365	0.0	15.60	14.61	50	25	Left	0	0.003	0.000	1.256	0.004	0.000		38.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-29 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	-0.01	1860.00	26140	0.0	13.00	12.00	1	50	Back	0	0.512	0.210	1.259	0.645	0.264		13.9	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	0.04	1860.00	26140	0.0	13.00	12.01	50	25	Back	0	0.521	0.214	1.256	0.654	0.269		13.8	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	-0.01	1882.50	26365	0.0	13.00	11.90	50	50	Back	0	0.547	0.224	1.288	0.705	0.289		13.5	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	0.01	1905.00	26590	0.0	13.00	11.93	50	50	Back	0	0.550	0.224	1.279	0.703	0.286		13.5	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	-0.04	1860.00	26140	0.0	13.00	12.00	1	50	Top	0	0.773	0.266	1.259	0.973	0.335		12.1	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	-0.01	1882.50	26365	0.0	13.00	11.84	1	50	Top	0	0.701	0.248	1.306	0.916	0.324		12.4	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	0.01	1905.00	26590	0.0	13.00	11.82	1	50	Top	0	0.719	0.254	1.312	0.943	0.333		12.2	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	-0.03	1860.00	26140	0.0	13.00	12.01	50	25	Top	0	0.787	0.271	1.256	0.988	0.340		12.0	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	0.00	1882.50	26365	0.0	13.00	11.90	50	50	Top	0	0.720	0.255	1.288	0.927	0.328		12.3	12.0
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	-0.01	1905.00	26590	0.0	13.00	11.93	50	50	Top	0	0.734	0.258	1.279	0.939	0.330		12.3	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	-0.02	1860.00	26140	0.0	13.00	11.98	100	0	Top	0	0.782	0.270	1.265	0.989	0.342		12.0	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	0.03	1860.00	26140	0.0	13.00	12.00	1	50	Bottom	0	0.000	0.000	1.259	0.000	0.000		51.0	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	0.01	1860.00	26140	0.0	13.00	12.01	50	25	Bottom	0	0.002	0.000	1.256	0.003	0.000		38.0	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	0.09	1860.00	26140	0.0	13.00	12.00	1	50	Right	0	0.033	0.014	1.259	0.042	0.018		25.8	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	-0.12	1860.00	26140	0.0	13.00	12.01	50	25	Right	0	0.035	0.014	1.256	0.044	0.018		25.6	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	0.08	1860.00	26140	0.0	13.00	12.00	1	50	Left	0	0.011	0.004	1.259	0.014	0.005		30.6	
Body	LTE Band 25	20	QPSK	3b	0N659	1:1	0.08	1860.00	26140	0.0	13.00	12.01	50	25	Left	0	0.010	0.004	1.256	0.013	0.005		31.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-30 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	-0.01	1860.00	26140	0.0	14.70	13.67	1	0	Back	0	0.701	0.294	1.268	0.889	0.373		14.2	14.2
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.01	1882.50	26365	0.0	14.70	13.76	1	50	Back	0	0.671	0.280	1.242	0.833	0.348		14.5	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.03	1905.00	26590	0.0	14.70	13.68	1	0	Back	0	0.649	0.269	1.265	0.821	0.340		14.5	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.04	1860.00	26140	0.0	14.70	13.72	50	50	Back	0	0.699	0.291	1.253	0.876	0.365		14.3	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.03	1882.50	26365	0.0	14.70	13.78	50	25	Back	0	0.678	0.280	1.236	0.838	0.346		14.4	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.01	1905.00	26590	0.0	14.70	13.74	50	0	Back	0	0.659	0.273	1.247	0.822	0.340		14.5	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.00	1882.50	26365	0.0	14.70	13.75	100	0	Back	0	0.671	0.278	1.245	0.835	0.346		14.5	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	-0.01	1882.50	26365	0.0	14.70	13.76	1	50	Top	0	0.284	0.112	1.242	0.353	0.139		18.2	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	-0.01	1882.50	26365	0.0	14.70	13.78	50	25	Top	0	0.293	0.113	1.236	0.362	0.140		18.1	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	-0.07	1882.50	26365	0.0	14.70	13.76	1	50	Bottom	0	0.000	0.000	1.242	0.000	0.000		52.7	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.01	1882.50	26365	0.0	14.70	13.78	50	25	Bottom	0	0.000	0.000	1.236	0.000	0.000		52.8	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.07	1882.50	26365	0.0	14.70	13.76	1	50	Right	0	0.000	0.000	1.242	0.000	0.000		52.7	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.09	1882.50	26365	0.0	14.70	13.78	50	25	Right	0	0.001	0.000	1.236	0.001	0.000		42.8	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.07	1860.00	26140	0.0	14.70	13.67	1	0	Left	0	0.657	0.228	1.268	0.833	0.289		14.5	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.06	1882.50	26365	0.0	14.70	13.76	1	50	Left	0	0.671	0.235	1.242	0.833	0.292		14.5	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.01	1905.00	26590	0.0	14.70	13.68	1	0	Left	0	0.655	0.227	1.265	0.829	0.287		14.5	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.02	1860.00	26140	0.0	14.70	13.72	50	50	Left	0	0.680	0.238	1.253	0.852	0.298		14.4	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.09	1882.50	26365	0.0	14.70	13.78	50	25	Left	0	0.688	0.241	1.236	0.850	0.298		14.4	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.03	1905.00	26590	0.0	14.70	13.74	50	0	Left	0	0.646	0.229	1.247	0.806	0.286		14.6	
Body	LTE Band 25	20	QPSK	4	JGQGX	1:1	0.06	1882.50	26365	0.0	14.70	13.75	100	0	Left	0	0.679	0.240	1.245	0.845	0.299		14.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.12 LTE Band 30 Standalone SAR

Table 10-31 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	-0.03	2310.00	27710	0.0	13.30	11.90	1	0	Back	0	0.698	0.258	1.380	0.963	0.356		12.4	12.3
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	0.01	2310.00	27710	0.0	13.30	11.94	25	12	Back	0	0.719	0.263	1.368	0.984	0.360		12.4	
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	0.00	2310.00	27710	0.0	13.30	11.86	50	0	Back	0	0.713	0.260	1.393	0.993	0.362		12.3	
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	0.07	2310.00	27710	0.0	13.30	11.90	1	0	Top	0	0.014	0.012	1.380	0.019	0.017		29.4	
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	0.16	2310.00	27710	0.0	13.30	11.94	25	12	Top	0	0.010	0.010	1.368	0.014	0.014		30.9	
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	0.04	2310.00	27710	0.0	13.30	11.90	1	0	Bottom	0	0.665	0.234	1.380	0.918	0.323		12.7	
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	0.03	2310.00	27710	0.0	13.30	11.94	25	12	Bottom	0	0.651	0.223	1.368	0.891	0.305		12.8	
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	0.01	2310.00	27710	0.0	13.30	11.86	50	0	Bottom	0	0.687	0.241	1.393	0.957	0.336		12.5	
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	0.20	2310.00	27710	0.0	13.30	11.90	1	0	Right	0	0.026	0.018	1.380	0.036	0.025		26.7	
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	0.06	2310.00	27710	0.0	13.30	11.94	25	12	Right	0	0.025	0.016	1.368	0.034	0.022		26.9	
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	0.15	2310.00	27710	0.0	13.30	11.90	1	0	Left	0	0.046	0.025	1.380	0.063	0.035		24.3	
Body	LTE Band 30	10	QPSK	1b	QQJKG	1:1	0.02	2310.00	27710	0.0	13.30	11.94	25	12	Left	0	0.047	0.026	1.368	0.064	0.036		24.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-32 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	0.00	2310.00	27710	0.0	14.00	13.04	1	25	Back	0	0.790	0.320	1.247	0.985	0.399		13.0	13.0
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	0.01	2310.00	27710	0.0	14.00	13.02	25	0	Back	0	0.784	0.316	1.253	0.982	0.396		13.1	
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	0.00	2310.00	27710	0.0	14.00	13.00	50	0	Back	0	0.784	0.317	1.259	0.987	0.399		13.0	
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	-0.11	2310.00	27710	0.0	14.00	13.04	1	25	Top	0	0.029	0.019	1.247	0.036	0.024		27.4	
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	0.04	2310.00	27710	0.0	14.00	13.02	25	0	Top	0	0.031	0.021	1.253	0.039	0.026		27.1	
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	0.03	2310.00	27710	0.0	14.00	13.04	1	25	Bottom	0	0.357	0.125	1.247	0.445	0.156		16.5	
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	0.03	2310.00	27710	0.0	14.00	13.02	25	0	Bottom	0	0.358	0.127	1.253	0.449	0.159		16.5	
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	-0.06	2310.00	27710	0.0	14.00	13.04	1	25	Right	0	0.756	0.276	1.247	0.943	0.344		13.2	
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	-0.02	2310.00	27710	0.0	14.00	13.02	25	0	Right	0	0.740	0.272	1.253	0.927	0.341		13.3	
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	0.05	2310.00	27710	0.0	14.00	13.00	50	0	Right	0	0.741	0.272	1.259	0.933	0.342		13.3	
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	-0.06	2310.00	27710	0.0	14.00	13.04	1	25	Left	0	0.014	0.012	1.247	0.017	0.015		30.6	
Body	LTE Band 30	10	QPSK	2	QQJKG	1:1	-0.13	2310.00	27710	0.0	14.00	13.02	25	0	Left	0	0.025	0.017	1.253	0.031	0.021		28.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-33 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	0.01	2310.00	27710	0.0	13.10	12.58	1	25	Back	0	0.581	0.236	1.127	0.655	0.266		13.9	12.1
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	0.02	2310.00	27710	0.0	13.10	12.57	25	12	Back	0	0.690	0.279	1.130	0.780	0.315		13.2	
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	0.00	2310.00	27710	0.0	13.10	12.58	1	25	Top	0	0.870	0.319	1.127	0.980	0.360		12.2	
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	0.03	2310.00	27710	0.0	13.10	12.57	25	12	Top	0	0.880	0.323	1.130	0.994	0.365	A12	12.1	
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	0.01	2310.00	27710	0.0	13.10	12.57	25	12	Top	0	0.877	0.309	1.130	0.991	0.349		12.1	
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	0.01	2310.00	27710	0.0	13.10	12.56	50	0	Top	0	0.876	0.320	1.132	0.992	0.362		12.1	
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	0.05	2310.00	27710	0.0	13.10	12.58	1	25	Bottom	0	0.009	0.010	1.127	0.010	0.011		32.0	
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	0.08	2310.00	27710	0.0	13.10	12.57	25	12	Bottom	0	0.015	0.014	1.130	0.017	0.016		29.8	
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	0.02	2310.00	27710	0.0	13.10	12.58	1	25	Right	0	0.041	0.017	1.127	0.046	0.019		25.4	
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	-0.16	2310.00	27710	0.0	13.10	12.57	25	12	Right	0	0.034	0.015	1.130	0.038	0.017		26.2	
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	0.01	2310.00	27710	0.0	13.10	12.58	1	25	Left	0	0.046	0.023	1.127	0.052	0.026		24.9	
Body	LTE Band 30	10	QPSK	3b	DW7WF	1:1	0.03	2310.00	27710	0.0	13.10	12.57	25	12	Left	0	0.052	0.026	1.130	0.059	0.029		24.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-34 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	4	7HN2T	1:1	-0.01	2310.00	27710	0.0	15.50	14.34	1	25	Back	0	0.684	0.273	1.306	0.893	0.357		15.0	14.9
Body	LTE Band 30	10	QPSK	4	7HN2T	1:1	0.00	2310.00	27710	0.0	15.50	14.36	25	12	Back	0	0.689	0.274	1.300	0.896	0.356		15.0	
Body	LTE Band 30	10	QPSK	4	7HN2T	1:1	-0.01	2310.00	27710	0.0	15.50	14.31	50	0	Back	0	0.686	0.272	1.315	0.902	0.358		14.9	
Body	LTE Band 30	10	QPSK	4	7HN2T	1:1	-0.07	2310.00	27710	0.0	15.50	14.34	1	25	Top	0	0.463	0.175	1.306	0.605	0.229		16.7	
Body	LTE Band 30	10	QPSK	4	7HN2T	1:1	0.01	2310.00	27710	0.0	15.50	14.36	25	12	Top	0	0.518	0.199	1.300	0.673	0.259		16.2	
Body	LTE Band 30	10	QPSK	4	7HN2T	1:1	0.04	2310.00	27710	0.0	15.50	14.34	1	25	Bottom	0	0.014	0.011	1.306	0.018	0.014		31.9	
Body	LTE Band 30	10	QPSK	4	7HN2T	1:1	0.09	2310.00	27710	0.0	15.50	14.36	25	12	Bottom	0	0.011	0.009	1.300	0.014	0.012		32.9	
Body	LTE Band 30	10	QPSK	4	7HN2T	1:1	0.03	2310.00	27710	0.0	15.50	14.34	1	25	Right	0	0.014	0.012	1.306	0.018	0.016		31.9	
Body	LTE Band 30	10	QPSK	4	7HN2T	1:1	0.03	2310.00	27710	0.0	15.50	14.36	25	12	Right	0	0.017	0.014	1.300	0.022	0.018		31.0	
Body	LTE Band 30	10	QPSK	4	7HN2T	1:1	-0.01	2310.00	27710	0.0	15.50	14.34	1	25	Left	0	0.273	0.109	1.306	0.357	0.142		19.0	
Body	LTE Band 30	10	QPSK	4	7HN2T	1:1	-0.04	2310.00	27710	0.0	15.50	14.36	25	12	Left	0	0.409	0.148	1.300	0.532	0.192		17.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.13 LTE Band 7 Standalone SAR

Table 10-35 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.04	2510.00	20850	0.0	12.40	11.30	1	50	Back	0	N/A	0.712	0.251	1.288	0.917	0.323		11.8	11.4
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	-0.01	2535.00	21100	0.0	12.40	11.38	1	50	Back	0	N/A	0.686	0.238	1.265	0.868	0.301		12.0	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	-0.01	2560.00	21350	0.0	12.40	11.35	1	50	Back	0	N/A	0.726	0.252	1.274	0.925	0.321		11.7	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	-0.03	2510.00	20850	0.0	12.40	11.47	50	25	Back	0	N/A	0.727	0.257	1.239	0.901	0.318		11.8	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.01	2535.00	21100	0.0	12.40	11.50	50	25	Back	0	N/A	0.680	0.233	1.230	0.836	0.287		12.2	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.00	2560.00	21350	0.0	12.40	11.49	50	50	Back	0	N/A	0.748	0.260	1.233	0.922	0.321		11.7	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.01	2535.00	21100	0.0	12.40	11.37	100	0	Back	0	N/A	0.748	0.261	1.268	0.948	0.331		11.6	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.01	2535.00	21100	0.0	12.40	11.38	1	50	Top	0	N/A	0.000	0.000	1.265	0.000	0.000		50.4	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	-0.12	2535.00	21100	0.0	12.40	11.50	50	25	Top	0	N/A	0.000	0.000	1.230	0.000	0.000		50.5	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	-0.08	2510.00	20850	0.0	12.40	11.29	1	99	Bottom	0	N/A	0.739	0.251	1.291	0.954	0.324		11.6	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.00	2510.00	20850	0.0	12.40	11.30	1	50	Bottom	0	N/A	0.743	0.244	1.288	0.957	0.314		11.6	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.01	2535.00	21100	0.0	12.40	11.38	1	50	Bottom	0	N/A	0.727	0.241	1.265	0.920	0.305		11.7	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	-0.07	2560.00	21350	0.0	12.40	11.35	1	50	Bottom	0	N/A	0.742	0.243	1.274	0.945	0.310		11.6	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	-0.01	2510.00	20850	0.0	12.40	11.47	50	25	Bottom	0	N/A	0.752	0.248	1.239	0.932	0.307		11.7	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	-0.01	2535.00	21100	0.0	12.40	11.50	50	25	Bottom	0	N/A	0.742	0.243	1.230	0.913	0.299		11.8	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	-0.05	2560.00	21350	0.0	12.40	11.49	50	50	Bottom	0	N/A	0.766	0.251	1.233	0.944	0.309		11.6	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.02	2535.00	21100	0.0	12.40	11.37	100	0	Bottom	0	N/A	0.737	0.242	1.268	0.935	0.307		11.7	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.09	2535.00	21100	0.0	12.40	11.38	1	50	Right	0	N/A	0.009	0.003	1.265	0.011	0.004		30.8	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.08	2535.00	21100	0.0	12.40	11.50	50	25	Right	0	N/A	0.009	0.002	1.230	0.011	0.002		30.9	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.03	2535.00	21100	0.0	12.40	11.38	1	50	Left	0	N/A	0.024	0.009	1.265	0.030	0.011		26.6	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	-0.11	2535.00	21100	0.0	12.40	11.50	50	25	Left	0	N/A	0.024	0.010	1.230	0.030	0.012		26.7	
Body	LTE Band 7	20	QPSK	1b	Q917Y	1:1	0.00	2510.00	20850	0.0	12.40	11.45	1	99	Bottom	0	ULCA 7C	0.792	0.257	1.245	0.986	0.320	A13	11.4	
		20						2529.80	21048				1	0											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-36 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	0.00	2510.00	20850	0.0	12.30	11.20	1	50	Back	0	N/A	0.734	0.263	1.288	0.945	0.339		11.5	11.4
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	-0.04	2510.00	20850	0.0	12.30	11.14	1	99	Back	0	N/A	0.716	0.252	1.305	0.935	0.329		11.6	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	-0.02	2535.00	21100	0.0	12.30	11.34	1	50	Back	0	N/A	0.699	0.252	1.247	0.872	0.314		11.9	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	0.00	2560.00	21350	0.0	12.30	11.28	1	50	Back	0	N/A	0.670	0.240	1.265	0.848	0.304		12.0	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	-0.01	2510.00	20850	0.0	12.30	11.39	50	0	Back	0	N/A	0.757	0.271	1.233	0.933	0.334		11.6	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	-0.02	2535.00	21100	0.0	12.30	11.40	50	0	Back	0	N/A	0.715	0.257	1.230	0.879	0.316		11.8	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	-0.01	2560.00	21350	0.0	12.30	11.37	50	0	Back	0	N/A	0.697	0.250	1.239	0.864	0.310		11.9	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	0.01	2535.00	21100	0.0	12.30	11.33	100	0	Back	0	N/A	0.714	0.256	1.250	0.893	0.320		11.8	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	0.03	2535.00	21100	0.0	12.30	11.34	1	50	Top	0	N/A	0.010	0.003	1.247	0.012	0.004		30.3	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	0.03	2535.00	21100	0.0	12.30	11.40	50	0	Top	0	N/A	0.011	0.004	1.230	0.014	0.005		30.0	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	0.01	2535.00	21100	0.0	12.30	11.34	1	50	Bottom	0	N/A	0.326	0.099	1.247	0.407	0.123		15.2	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	0.01	2535.00	21100	0.0	12.30	11.40	50	0	Bottom	0	N/A	0.332	0.101	1.230	0.408	0.124		15.2	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	0.01	2535.00	21100	0.0	12.30	11.34	1	50	Right	0	N/A	0.543	0.172	1.247	0.677	0.214		13.0	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	-0.01	2535.00	21100	0.0	12.30	11.40	50	0	Right	0	N/A	0.556	0.177	1.230	0.684	0.218		12.9	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	0.07	2535.00	21100	0.0	12.30	11.34	1	50	Left	0	N/A	0.003	0.000	1.247	0.004	0.000		35.5	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	0.08	2535.00	21100	0.0	12.30	11.40	50	0	Left	0	N/A	0.002	0.000	1.230	0.002	0.000		37.4	
Body	LTE Band 7	20	QPSK	2	5002Q	1:1	0.01	2510.00	20850	0.0	12.30	11.08	1	99	Back	0	ULCA 7C	0.731	0.257	1.324	0.968	0.340		11.4	
		20						2529.80	21048				1	0											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-37 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	-0.01	2560.00	21350	0.0	12.10	11.03	1	50	Back	0	N/A	0.445	0.203	1.279	0.569	0.260		13.5	11.3
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	-0.01	2560.00	21350	0.0	12.10	11.14	50	0	Back	0	N/A	0.461	0.209	1.247	0.575	0.261		13.5	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	-0.02	2510.00	20850	0.0	12.10	10.94	1	50	Top	0	N/A	0.723	0.242	1.306	0.944	0.316		11.3	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	-0.02	2535.00	21100	0.0	12.10	10.91	1	50	Top	0	N/A	0.686	0.228	1.315	0.902	0.300		11.5	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	-0.04	2560.00	21350	0.0	12.10	11.03	1	50	Top	0	N/A	0.673	0.222	1.279	0.861	0.284		11.7	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	-0.01	2510.00	20850	0.0	12.10	11.06	50	0	Top	0	N/A	0.753	0.250	1.271	0.957	0.318		11.3	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	-0.01	2510.00	20850	0.0	12.10	11.04	50	50	Top	0	N/A	0.728	0.242	1.276	0.929	0.309		11.4	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	-0.01	2535.00	21100	0.0	12.10	11.11	50	0	Top	0	N/A	0.711	0.236	1.256	0.893	0.296		11.6	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	0.01	2560.00	21350	0.0	12.10	11.14	50	0	Top	0	N/A	0.698	0.230	1.247	0.870	0.287		11.7	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	-0.01	2560.00	21350	0.0	12.10	11.00	100	0	Top	0	N/A	0.698	0.229	1.288	0.899	0.295		11.5	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	0.08	2560.00	21350	0.0	12.10	11.03	1	50	Bottom	0	N/A	0.000	0.000	1.279	0.000	0.000		50.0	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	0.02	2560.00	21350	0.0	12.10	11.14	50	0	Bottom	0	N/A	0.000	0.000	1.247	0.000	0.000		50.1	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	-0.02	2560.00	21350	0.0	12.10	11.03	1	50	Right	0	N/A	0.090	0.079	1.279	0.115	0.101		20.5	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	-0.05	2560.00	21350	0.0	12.10	11.14	50	0	Right	0	N/A	0.032	0.017	1.247	0.040	0.021		25.1	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	0.13	2560.00	21350	0.0	12.10	11.03	1	50	Left	0	N/A	0.000	0.000	1.279	0.000	0.000		50.0	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	0.04	2560.00	21350	0.0	12.10	11.14	50	0	Left	0	N/A	0.000	0.000	1.247	0.000	0.000		50.1	
Body	LTE Band 7	20	QPSK	3b	5002Q	1:1	0.02	2510.00	20850	0.0	12.10	10.97	50	50	Top	0	ULCA 7C	0.699	0.231	1.297	0.907	0.300		11.5	
		20						2529.80	21048				50	0											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-38 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	-0.05	2510.00	20850	0.0	11.80	10.45	1	50	Back	0	N/A	0.666	0.229	1.365	0.909	0.313		11.2	10.8
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.01	2535.00	21100	0.0	11.80	10.41	1	50	Back	0	N/A	0.699	0.241	1.377	0.963	0.332		10.9	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	-0.02	2560.00	21350	0.0	11.80	10.46	1	0	Back	0	N/A	0.730	0.252	1.361	0.994	0.343		10.8	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.00	2510.00	20850	0.0	11.80	10.51	50	25	Back	0	N/A	0.677	0.232	1.346	0.911	0.312		11.2	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.04	2535.00	21100	0.0	11.80	10.43	50	25	Back	0	N/A	0.717	0.246	1.371	0.983	0.337		10.9	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.01	2560.00	21350	0.0	11.80	10.62	50	25	Back	0	N/A	0.750	0.259	1.312	0.984	0.340		10.9	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.01	2510.00	20850	0.0	11.80	10.41	100	0	Back	0	N/A	0.679	0.233	1.377	0.935	0.321		11.1	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.03	2560.00	21350	0.0	11.80	10.46	1	0	Top	0	N/A	0.182	0.066	1.361	0.248	0.090		16.8	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.01	2560.00	21350	0.0	11.80	10.62	50	25	Top	0	N/A	0.235	0.082	1.312	0.308	0.108		15.9	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.01	2560.00	21350	0.0	11.80	10.46	1	0	Bottom	0	N/A	0.000	0.000	1.361	0.000	0.000		49.4	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.09	2560.00	21350	0.0	11.80	10.62	50	25	Bottom	0	N/A	0.005	0.001	1.312	0.007	0.001		32.6	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.04	2560.00	21350	0.0	11.80	10.46	1	0	Right	0	N/A	0.000	0.000	1.361	0.000	0.000		49.4	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.04	2560.00	21350	0.0	11.80	10.62	50	25	Right	0	N/A	0.001	0.000	1.312	0.001	0.000		39.6	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.00	2510.00	20850	0.0	11.80	10.45	1	50	Left	0	N/A	0.571	0.191	1.365	0.779	0.261		11.9	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	-0.03	2535.00	21100	0.0	11.80	10.41	1	50	Left	0	N/A	0.588	0.197	1.377	0.810	0.271		11.7	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.00	2560.00	21350	0.0	11.80	10.46	1	0	Left	0	N/A	0.502	0.172	1.361	0.683	0.234		12.4	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	-0.01	2510.00	20850	0.0	11.80	10.51	50	25	Left	0	N/A	0.574	0.191	1.346	0.773	0.257		11.9	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.01	2535.00	21100	0.0	11.80	10.43	50	25	Left	0	N/A	0.614	0.205	1.371	0.842	0.281		11.5	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	-0.04	2560.00	21350	0.0	11.80	10.62	50	25	Left	0	N/A	0.641	0.214	1.312	0.841	0.281		11.5	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	0.01	2510.00	20850	0.0	11.80	10.41	100	0	Left	0	N/A	0.567	0.191	1.377	0.781	0.263		11.9	
Body	LTE Band 7	20	QPSK	4	7HN2T	1:1	-0.02	2560.00	21350	0.0	11.80	10.61	1	0	Back	0	ULCA 7C	0.752	0.251	1.315	0.989	0.330		10.8	
		20						2540.20	21152				1	99											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.14 LTE Band 41 Standalone SAR

Table 10-39 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.02	2506.00	39750	0.0	14.50	13.31	1	50	Back	0	N/A	0.665	0.240	1.315	0.874	0.316		12.1	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.06	2549.50	40185	0.0	14.50	13.35	1	0	Back	0	N/A	0.628	0.225	1.303	0.818	0.293		12.4	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.09	2593.00	40620	0.0	14.50	13.47	1	99	Back	0	N/A	0.655	0.236	1.268	0.831	0.299		12.3	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.02	2636.50	41055	0.0	14.50	13.44	1	99	Back	0	N/A	0.688	0.241	1.276	0.878	0.308		12.1	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.03	2680.00	41490	0.0	14.50	13.27	1	99	Back	0	N/A	0.610	0.212	1.327	0.809	0.281		12.4	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.01	2506.00	39750	0.0	14.50	13.45	50	0	Back	0	N/A	0.693	0.250	1.274	0.883	0.319		12.0	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.01	2549.50	40185	0.0	14.50	13.45	50	0	Back	0	N/A	0.652	0.233	1.274	0.831	0.297		12.3	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.01	2593.00	40620	0.0	14.50	13.50	50	25	Back	0	N/A	0.700	0.246	1.259	0.881	0.310		12.0	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.01	2636.50	41055	0.0	14.50	13.46	50	0	Back	0	N/A	0.709	0.248	1.271	0.901	0.315		12.0	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:2.31	0.00	2636.50	41055	0.0	16.10	14.57	50	0	Back	0	N/A	0.570	0.192	1.422	0.811	0.273		12.4	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.02	2680.00	41490	0.0	14.50	13.31	50	25	Back	0	N/A	0.647	0.225	1.315	0.851	0.296		12.2	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.02	2593.00	40620	0.0	14.50	13.38	100	0	Back	0	N/A	0.694	0.248	1.294	0.898	0.321		12.0	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.02	2593.00	40620	0.0	14.50	13.47	1	99	Top	0	N/A	0.000	0.000	1.268	0.000	0.000		50.5	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.07	2593.00	40620	0.0	14.50	13.50	50	25	Top	0	N/A	0.000	0.000	1.259	0.000	0.000		50.5	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.01	2506.00	39750	0.0	14.50	13.31	1	50	Bottom	0	N/A	0.634	0.216	1.315	0.834	0.284		12.3	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.04	2549.50	40185	0.0	14.50	13.35	1	0	Bottom	0	N/A	0.633	0.212	1.303	0.825	0.276		12.3	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.02	2593.00	40620	0.0	14.50	13.47	1	99	Bottom	0	N/A	0.676	0.225	1.268	0.857	0.285		12.2	12.0
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.02	2636.50	41055	0.0	14.50	13.44	1	99	Bottom	0	N/A	0.623	0.206	1.276	0.795	0.263		12.5	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.07	2680.00	41490	0.0	14.50	13.27	1	99	Bottom	0	N/A	0.558	0.182	1.327	0.740	0.242		12.8	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.02	2506.00	39750	0.0	14.50	13.45	50	0	Bottom	0	N/A	0.646	0.220	1.274	0.823	0.280		12.3	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.00	2549.50	40185	0.0	14.50	13.45	50	0	Bottom	0	N/A	0.647	0.216	1.274	0.824	0.275		12.3	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.01	2593.00	40620	0.0	14.50	13.50	50	25	Bottom	0	N/A	0.676	0.226	1.259	0.851	0.285		12.2	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.01	2636.50	41055	0.0	14.50	13.46	50	0	Bottom	0	N/A	0.652	0.216	1.271	0.829	0.275		12.3	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.01	2680.00	41490	0.0	14.50	13.31	50	25	Bottom	0	N/A	0.578	0.188	1.315	0.760	0.247		12.7	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.03	2593.00	40620	0.0	14.50	13.38	100	0	Bottom	0	N/A	0.680	0.227	1.294	0.880	0.294		12.1	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.01	2593.00	40620	0.0	14.50	13.47	1	99	Right	0	N/A	0.016	0.005	1.268	0.020	0.006		28.4	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.08	2593.00	40620	0.0	14.50	13.50	50	25	Right	0	N/A	0.015	0.004	1.259	0.019	0.005		28.7	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	-0.17	2593.00	40620	0.0	14.50	13.47	1	99	Left	0	N/A	0.026	0.009	1.268	0.033	0.011		26.3	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.05	2593.00	40620	0.0	14.50	13.50	50	25	Left	0	N/A	0.028	0.011	1.259	0.035	0.014		26.0	
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:1.58	0.00	2636.50	41055	0.0	14.50	13.33	50	0	Back	0	ULCA 41C	0.655	0.223	1.309	0.857	0.292		12.2	
		20						2616.70	40857				50	50											
Body	LTE Band 41	20	QPSK	1b	Q917Y	1:2.31	0.01	2636.50	41055	0.0	16.10	14.36	50	0	Back	0	ULCA 41C	0.554	0.187	1.493	0.827	0.279		12.3	
		20						2616.70	40857				50	50											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Green entry represents HPUE measurement

Table 10-40 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.03	2506.00	39750	0.0	14.90	13.54	1	50	Back	0	N/A	0.693	0.267	1.368	0.948	0.365		12.1	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.01	2549.50	40185	0.0	14.90	13.56	1	50	Back	0	N/A	0.680	0.261	1.361	0.925	0.355		12.2	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.00	2593.00	40620	0.0	14.90	13.63	1	50	Back	0	N/A	0.619	0.239	1.340	0.829	0.320		12.7	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	-0.03	2636.50	41055	0.0	14.90	13.52	1	0	Back	0	N/A	0.546	0.210	1.374	0.750	0.289		13.1	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	-0.05	2680.00	41490	0.0	14.90	13.32	1	50	Back	0	N/A	0.498	0.192	1.439	0.717	0.276		13.3	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.03	2506.00	39750	0.0	14.90	13.66	50	25	Back	0	N/A	0.723	0.277	1.330	0.962	0.368		12.1	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.00	2549.50	40185	0.0	14.90	13.63	50	0	Back	0	N/A	0.720	0.275	1.340	0.965	0.369		12.1	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:2.31	0.02	2549.50	40185	0.0	16.50	15.59	50	0	Back	0	N/A	0.752	0.289	1.233	0.927	0.356		12.2	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.00	2593.00	40620	0.0	14.90	13.74	50	25	Back	0	N/A	0.647	0.249	1.306	0.845	0.325		12.6	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	-0.01	2636.50	41055	0.0	14.90	13.62	50	25	Back	0	N/A	0.489	0.198	1.343	0.657	0.266		13.7	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.00	2680.00	41490	0.0	14.90	13.43	50	25	Back	0	N/A	0.557	0.208	1.403	0.781	0.292		13.0	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.00	2506.00	39750	0.0	14.90	13.62	100	0	Back	0	N/A	0.564	0.223	1.343	0.757	0.299		13.1	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	-0.16	2593.00	40620	0.0	14.90	13.63	1	50	Top	0	N/A	0.009	0.003	1.340	0.012	0.004		31.1	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	-0.04	2593.00	40620	0.0	14.90	13.74	50	25	Top	0	N/A	0.011	0.004	1.306	0.014	0.005		30.3	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.00	2593.00	40620	0.0	14.90	13.63	1	50	Bottom	0	N/A	0.314	0.099	1.340	0.421	0.133		15.7	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.01	2593.00	40620	0.0	14.90	13.74	50	25	Bottom	0	N/A	0.320	0.101	1.306	0.418	0.132		15.7	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.01	2506.00	39750	0.0	14.90	13.54	1	50	Right	0	N/A	0.542	0.141	1.368	0.741	0.193		13.2	12.1
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.00	2549.50	40185	0.0	14.90	13.56	1	50	Right	0	N/A	0.554	0.193	1.361	0.754	0.263		13.1	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.02	2593.00	40620	0.0	14.90	13.63	1	50	Right	0	N/A	0.532	0.184	1.340	0.713	0.247		13.4	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	-0.10	2636.50	41055	0.0	14.90	13.52	1	0	Right	0	N/A	0.499	0.171	1.374	0.686	0.235		13.5	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.00	2680.00	41490	0.0	14.90	13.32	1	50	Right	0	N/A	0.510	0.173	1.439	0.734	0.249		13.2	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.02	2506.00	39750	0.0	14.90	13.66	50	25	Right	0	N/A	0.597	0.216	1.330	0.794	0.287		12.9	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.01	2549.50	40185	0.0	14.90	13.63	50	0	Right	0	N/A	0.557	0.191	1.340	0.746	0.256		13.2	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.01	2593.00	40620	0.0	14.90	13.74	50	25	Right	0	N/A	0.546	0.186	1.306	0.713	0.243		13.4	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.01	2636.50	41055	0.0	14.90	13.62	50	25	Right	0	N/A	0.511	0.173	1.343	0.686	0.232		13.5	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.00	2680.00	41490	0.0	14.90	13.43	50	25	Right	0	N/A	0.515	0.174	1.403	0.723	0.244		13.3	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.02	2506.00	39750	0.0	14.90	13.62	100	0	Right	0	N/A	0.530	0.184	1.343	0.712	0.247		13.4	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.04	2593.00	40620	0.0	14.90	13.63	1	50	Left	0	N/A	0.000	0.000	1.340	0.000	0.000		50.6	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	0.08	2593.00	40620	0.0	14.90	13.74	50	25	Left	0	N/A	0.000	0.000	1.306	0.000	0.000		50.7	
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:1.58	-0.01	2549.50	40185	0.0	14.90	13.38	50	0	Back	0	ULCA 41C	0.678	0.258	1.419	0.962	0.366		12.1	
		20						2529.70	39987				50	50											
Body	LTE Band 41	20	QPSK	2	Q7WDG	1:2.31	0.03	2549.50	40185	0.0	16.50	15.65	50	0	Back	0	ULCA 41C	0.783	0.299	1.216	0.952	0.364		12.1	
		20						2529.70	39987				50	50											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Green entry represents HPUE measurement

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-41 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	-0.01	2593.00	40620	0.0	15.00	14.11	1	50	Back	0	N/A	0.370	0.137	1.227	0.454	0.168		15.4	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.00	2593.00	40620	0.0	15.00	14.17	50	25	Back	0	N/A	0.384	0.144	1.211	0.465	0.174		15.3	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.03	2506.00	39750	0.0	15.00	14.08	1	50	Top	0	N/A	0.781	0.265	1.236	0.965	0.328		12.2	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.03	2506.00	39750	0.0	15.00	13.92	1	99	Top	0	N/A	0.751	0.257	1.282	0.963	0.329		12.2	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:2.31	-0.03	2506.00	39750	0.0	16.60	15.55	1	99	Top	0	N/A	0.746	0.259	1.274	0.950	0.330		12.2	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:2.31	-0.01	2506.00	39750	0.0	16.60	15.66	1	50	Top	0	N/A	0.774	0.267	1.242	0.961	0.332		12.1	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	-0.07	2549.50	40185	0.0	15.00	14.02	1	50	Top	0	N/A	0.706	0.239	1.253	0.885	0.299		12.5	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.00	2593.00	40620	0.0	15.00	14.11	1	50	Top	0	N/A	0.665	0.221	1.227	0.816	0.271		12.9	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	-0.05	2636.50	41055	0.0	15.00	13.91	1	50	Top	0	N/A	0.609	0.202	1.285	0.783	0.260		13.1	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.04	2680.00	41490	0.0	15.00	13.96	1	50	Top	0	N/A	0.599	0.197	1.271	0.761	0.250		13.2	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.02	2506.00	39750	0.0	15.00	14.16	50	25	Top	0	N/A	0.787	0.267	1.213	0.955	0.324		12.2	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.03	2549.50	40185	0.0	15.00	14.15	50	25	Top	0	N/A	0.714	0.241	1.216	0.868	0.293		12.6	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	-0.04	2593.00	40620	0.0	15.00	14.17	50	25	Top	0	N/A	0.677	0.225	1.211	0.820	0.272		12.9	12.1
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	-0.03	2636.50	41055	0.0	15.00	14.03	50	25	Top	0	N/A	0.621	0.206	1.250	0.776	0.258		13.1	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.04	2680.00	41490	0.0	15.00	14.02	50	25	Top	0	N/A	0.615	0.202	1.253	0.771	0.253		13.1	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.02	2593.00	40620	0.0	15.00	14.09	100	0	Top	0	N/A	0.668	0.224	1.233	0.824	0.276		12.8	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.01	2593.00	40620	0.0	15.00	14.11	1	50	Bottom	0	N/A	0.003	0.001	1.227	0.004	0.001		36.3	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.01	2593.00	40620	0.0	15.00	14.17	50	25	Bottom	0	N/A	0.004	0.002	1.211	0.005	0.002		35.1	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.12	2593.00	40620	0.0	15.00	14.11	1	50	Right	0	N/A	0.027	0.011	1.227	0.033	0.013		26.8	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.14	2593.00	40620	0.0	15.00	14.17	50	25	Right	0	N/A	0.028	0.012	1.211	0.034	0.015		26.7	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.01	2593.00	40620	0.0	15.00	14.11	1	50	Left	0	N/A	0.003	0.001	1.227	0.004	0.001		36.3	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.09	2593.00	40620	0.0	15.00	14.17	50	25	Left	0	N/A	0.004	0.001	1.211	0.005	0.001		35.1	
Body	LTE Band 41	20	QPSK	3b	64JK4	1:1.58	0.00	2506.00	39750	0.0	15.00	13.72	1	99	Top	0	ULCA 41C	0.726	0.254	1.343	0.975	0.341		12.1	
		20						2525.80	39948				1	0											
Body	LTE Band 41	20	QPSK	3b	64JK4	1:2.31	-0.01	2506.00	39750	0.0	16.60	15.51	1	99	Top	0	ULCA 41C	0.757	0.259	1.285	0.973	0.333		12.1	
		20						2525.80	39948				1	0											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Green entry represents HPUE measurement

Table 10-42 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.03	2506.00	39750	0.0	13.60	13.14	1	50	Back	0	N/A	0.719	0.250	1.112	0.800	0.278		11.6	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.06	2549.50	40185	0.0	13.60	13.25	1	50	Back	0	N/A	0.780	0.272	1.084	0.846	0.295		11.3	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.02	2593.00	40620	0.0	13.60	13.03	1	50	Back	0	N/A	0.829	0.289	1.140	0.945	0.329		10.8	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	-0.02	2636.50	41055	0.0	13.60	13.07	1	0	Back	0	N/A	0.860	0.301	1.130	0.972	0.340		10.7	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	-0.01	2680.00	41490	0.0	13.60	13.05	1	99	Back	0	N/A	0.816	0.284	1.135	0.926	0.322		10.9	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	-0.01	2506.00	39750	0.0	13.60	13.22	50	0	Back	0	N/A	0.729	0.253	1.091	0.795	0.276		11.6	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.03	2549.50	40185	0.0	13.60	13.24	50	0	Back	0	N/A	0.790	0.276	1.086	0.858	0.300		11.3	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.01	2593.00	40620	0.0	13.60	13.11	50	25	Back	0	N/A	0.857	0.299	1.119	0.959	0.335		10.8	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	-0.01	2636.50	41055	0.0	13.60	13.06	50	25	Back	0	N/A	0.868	0.304	1.132	0.983	0.344	A14	10.7	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.01	2636.50	41055	0.0	13.60	13.03	50	0	Back	0	N/A	0.838	0.294	1.140	0.955	0.335		10.8	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:2.31	0.02	2636.50	41055	0.0	15.20	14.68	50	25	Back	0	N/A	0.800	0.280	1.127	0.902	0.316		11.0	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:2.31	0.02	2636.50	41055	0.0	15.20	14.59	50	0	Back	0	N/A	0.797	0.279	1.151	0.917	0.321		10.9	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.00	2680.00	41490	0.0	13.60	13.04	50	0	Back	0	N/A	0.851	0.297	1.138	0.968	0.338		10.7	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.00	2549.50	40185	0.0	13.60	13.17	100	0	Back	0	N/A	0.783	0.274	1.104	0.864	0.302		11.2	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.12	2549.50	40185	0.0	13.60	13.25	1	50	Top	0	N/A	0.224	0.078	1.084	0.243	0.085		16.7	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.02	2549.50	40185	0.0	13.60	13.24	50	0	Top	0	N/A	0.232	0.081	1.086	0.252	0.088		16.6	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.06	2549.50	40185	0.0	13.60	13.25	1	50	Bottom	0	N/A	0.004	0.000	1.084	0.004	0.000		34.2	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.11	2549.50	40185	0.0	13.60	13.24	50	0	Bottom	0	N/A	0.004	0.001	1.086	0.004	0.001		34.2	10.7
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.03	2549.50	40185	0.0	13.60	13.25	1	50	Right	0	N/A	0.001	0.000	1.084	0.001	0.000		40.2	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.16	2549.50	40185	0.0	13.60	13.24	50	0	Right	0	N/A	0.003	0.000	1.086	0.003	0.000		35.5	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.00	2506.00	39750	0.0	13.60	13.14	1	50	Left	0	N/A	0.569	0.192	1.112	0.633	0.214		12.6	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.03	2549.50	40185	0.0	13.60	13.25	1	50	Left	0	N/A	0.625	0.210	1.084	0.678	0.228		12.3	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.04	2593.00	40620	0.0	13.60	13.03	1	50	Left	0	N/A	0.677	0.225	1.140	0.772	0.257		11.7	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.01	2636.50	41055	0.0	13.60	13.07	1	0	Left	0	N/A	0.665	0.219	1.130	0.751	0.247		11.8	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.04	2680.00	41490	0.0	13.60	13.05	1	99	Left	0	N/A	0.655	0.210	1.135	0.743	0.238		11.9	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	-0.03	2506.00	39750	0.0	13.60	13.22	50	0	Left	0	N/A	0.573	0.194	1.091	0.625	0.212		12.6	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.01	2549.50	40185	0.0	13.60	13.24	50	0	Left	0	N/A	0.639	0.215	1.086	0.694	0.233		12.2	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.00	2593.00	40620	0.0	13.60	13.11	50	25	Left	0	N/A	0.680	0.227	1.119	0.761	0.254		11.8	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.05	2636.50	41055	0.0	13.60	13.06	50	25	Left	0	N/A	0.641	0.209	1.132	0.726	0.237		12.0	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.01	2680.00	41490	0.0	13.60	13.04	50	0	Left	0	N/A	0.661	0.214	1.138	0.752	0.244		11.8	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	0.01	2549.50	40185	0.0	13.60	13.17	100	0	Left	0	N/A	0.630	0.212	1.104	0.696	0.234		12.2	
Body	LTE Band 41	20	QPSK	4	GGXKH	1:1.58	-0.02	2636.50	41055	0.0	13.60	12.90	50	0	Back	0	ULCA 41C	0.802	0.278	1.175	0.942	0.327		10.9	
		20						2616.70	40857				50	50											
Body	LTE Band 41	20	QPSK	4	GGXKH	1:2.31	0.08	2636.50	41055	0.0	15.20	14.64	50	0	Back	0	ULCA 41C	0.803	0.277	1.138	0.914	0.315		10.9	
		20						2616.70	40857				50	50											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Green entry represents HPUE measurement

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.15 LTE Band 48 Standalone SAR

Table 10-43 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.01	3560.00	55340	0.0	12.70	11.64	1	0	Back	0	N/A	0.669	0.180	1.276	0.854	0.230		10.4	9.9
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.04	3603.30	55773	0.0	12.70	11.59	1	99	Back	0	N/A	0.729	0.198	1.291	0.941	0.256		10.0	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	-0.13	3646.70	56207	0.0	12.70	11.79	1	99	Back	0	N/A	0.746	0.198	1.233	0.920	0.244		10.1	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.00	3690.00	56640	0.0	12.70	11.74	1	50	Back	0	N/A	0.767	0.203	1.247	0.956	0.253		9.9	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.02	3560.00	55340	0.0	12.70	11.75	50	50	Back	0	N/A	0.712	0.192	1.245	0.886	0.239		10.2	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.02	3603.30	55773	0.0	12.70	11.71	50	50	Back	0	N/A	0.755	0.204	1.256	0.948	0.256		9.9	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	-0.03	3646.70	56207	0.0	12.70	11.78	50	50	Back	0	N/A	0.775	0.208	1.236	0.958	0.257		9.9	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	-0.01	3690.00	56640	0.0	12.70	11.75	50	0	Back	0	N/A	0.774	0.204	1.245	0.964	0.254		9.9	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.03	3646.70	56207	0.0	12.70	11.77	100	0	Back	0	N/A	0.764	0.202	1.239	0.947	0.250		9.9	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.03	3646.70	56207	0.0	12.70	11.79	1	99	Top	0	N/A	0.000	0.000	1.233	0.000	0.000		48.8	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.02	3646.70	56207	0.0	12.70	11.78	50	50	Top	0	N/A	0.000	0.000	1.236	0.000	0.000		48.8	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	-0.06	3646.70	56207	0.0	12.70	11.79	1	99	Bottom	0	N/A	0.195	0.052	1.233	0.240	0.064		15.9	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.00	3646.70	56207	0.0	12.70	11.78	50	50	Bottom	0	N/A	0.200	0.054	1.236	0.247	0.067		15.8	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.05	3646.70	56207	0.0	12.70	11.79	1	99	Right	0	N/A	0.000	0.000	1.233	0.000	0.000		48.8	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.01	3646.70	56207	0.0	12.70	11.78	50	50	Right	0	N/A	0.000	0.000	1.236	0.000	0.000		48.8	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	-0.08	3560.00	55340	0.0	12.70	11.64	1	0	Left	0	N/A	0.607	0.160	1.276	0.775	0.204		10.8	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	-0.03	3603.30	55773	0.0	12.70	11.59	1	99	Left	0	N/A	0.644	0.168	1.291	0.831	0.217		10.5	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	-0.02	3646.70	56207	0.0	12.70	11.79	1	99	Left	0	N/A	0.634	0.165	1.233	0.782	0.203		10.8	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.04	3690.00	56640	0.0	12.70	11.74	1	50	Left	0	N/A	0.585	0.151	1.247	0.729	0.188		11.1	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.00	3560.00	55340	0.0	12.70	11.75	50	50	Left	0	N/A	0.632	0.168	1.245	0.787	0.209		10.7	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	-0.01	3603.30	55773	0.0	12.70	11.71	50	50	Left	0	N/A	0.637	0.168	1.256	0.800	0.211		10.7	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.03	3646.70	56207	0.0	12.70	11.78	50	50	Left	0	N/A	0.662	0.173	1.236	0.818	0.214		10.6	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.14	3690.00	56640	0.0	12.70	11.75	50	0	Left	0	N/A	0.592	0.151	1.245	0.737	0.188		11.0	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	-0.02	3646.70	56207	0.0	12.70	11.77	100	0	Left	0	N/A	0.636	0.164	1.239	0.788	0.203		10.7	
Body	LTE Band 48	20	QPSK	1a	Q2P2R	1:1.58	0.04	3690.00	56640	0.0	12.70	11.78	50	0	Back	0	ULCA 48C	0.761	0.203	1.236	0.941	0.251		10.0	
		20						3670.20	56442				50	50											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-44 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.03	3560.00	55340	0.0	12.90	12.07	1	50	Back	0	N/A	0.581	0.200	1.211	0.704	0.242		11.4	9.9
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.01	3603.30	55773	0.0	12.90	12.06	1	50	Back	0	N/A	0.618	0.214	1.213	0.750	0.260		11.1	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.05	3646.70	56207	0.0	12.90	12.40	1	50	Back	0	N/A	0.603	0.214	1.122	0.677	0.240		11.6	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.01	3690.00	56640	0.0	12.90	12.21	1	50	Back	0	N/A	0.702	0.245	1.172	0.823	0.287		10.7	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	-0.19	3560.00	55340	0.0	12.90	12.17	50	25	Back	0	N/A	0.570	0.196	1.183	0.674	0.232		11.6	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.00	3603.30	55773	0.0	12.90	12.22	50	25	Back	0	N/A	0.627	0.217	1.169	0.733	0.254		11.2	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.01	3646.70	56207	0.0	12.90	12.43	50	25	Back	0	N/A	0.625	0.220	1.114	0.696	0.245		11.5	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.02	3690.00	56640	0.0	12.90	12.31	50	25	Back	0	N/A	0.708	0.247	1.146	0.811	0.283		10.8	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.03	3646.70	56207	0.0	12.90	12.39	100	0	Back	0	N/A	0.557	0.194	1.125	0.627	0.218		11.9	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.02	3646.70	56207	0.0	12.90	12.40	1	50	Top	0	N/A	0.003	0.000	1.122	0.003	0.000		34.6	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.03	3646.70	56207	0.0	12.90	12.43	50	25	Top	0	N/A	0.004	0.000	1.114	0.004	0.000		33.4	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	-0.03	3646.70	56207	0.0	12.90	12.40	1	50	Bottom	0	N/A	0.152	0.046	1.122	0.171	0.052		17.6	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	-0.09	3646.70	56207	0.0	12.90	12.43	50	25	Bottom	0	N/A	0.167	0.052	1.114	0.186	0.058		17.2	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	-0.01	3560.00	55340	0.0	12.90	12.07	1	50	Right	0	N/A	0.772	0.212	1.211	0.935	0.257		10.2	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	-0.03	3603.30	55773	0.0	12.90	12.06	1	50	Right	0	N/A	0.793	0.216	1.213	0.962	0.262		10.1	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.02	3646.70	56207	0.0	12.90	12.40	1	50	Right	0	N/A	0.826	0.223	1.122	0.927	0.250		10.2	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.01	3690.00	56640	0.0	12.90	12.21	1	50	Right	0	N/A	0.780	0.212	1.172	0.914	0.248		10.3	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.01	3560.00	55340	0.0	12.90	12.17	50	25	Right	0	N/A	0.799	0.219	1.183	0.945	0.259		10.1	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	-0.02	3603.30	55773	0.0	12.90	12.22	50	25	Right	0	N/A	0.819	0.223	1.169	0.957	0.261		10.1	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	-0.03	3646.70	56207	0.0	12.90	12.43	50	25	Right	0	N/A	0.882	0.232	1.114	0.983	0.258		10.0	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	-0.02	3646.70	56207	0.0	12.90	12.42	50	0	Right	0	N/A	0.889	0.233	1.117	0.993	0.260		9.9	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.03	3690.00	56640	0.0	12.90	12.31	50	25	Right	0	N/A	0.788	0.213	1.146	0.903	0.244		10.3	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.01	3646.70	56207	0.0	12.90	12.39	100	0	Right	0	N/A	0.854	0.229	1.125	0.961	0.258		10.1	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.06	3646.70	56207	0.0	12.90	12.40	1	50	Left	0	N/A	0.000	0.000	1.122	0.000	0.000		49.4	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.07	3646.70	56207	0.0	12.90	12.43	50	25	Left	0	N/A	0.000	0.000	1.114	0.000	0.000		49.4	
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	-0.01	3646.70	56207	0.0	12.90	12.61	50	0	Right	0	ULCA 48C	0.913	0.244	1.069	0.976	0.261	A15	10.0	
		20						3626.90	56009				50	50											
Body	LTE Band 48	20	QPSK	2	GJ9VR	1:1.58	0.00	3646.70	56207	0.0	12.90	12.61	50	0	Right	0	ULCA 48C	0.828	0.225	1.069	0.885	0.241		10.4	
		20						3626.90	56009				50	50											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-45 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	-0.02	3560.00	55340	0.0	12.70	11.93	1	50	Back	0	N/A	0.407	0.125	1.194	0.486	0.149		12.8	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	-0.01	3560.00	55340	0.0	12.70	11.99	50	0	Back	0	N/A	0.378	0.119	1.178	0.445	0.140		13.2	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	0.15	3560.00	55340	0.0	12.70	11.93	1	50	Top	0	N/A	0.241	0.065	1.194	0.288	0.078		15.1	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	0.07	3560.00	55340	0.0	12.70	11.99	50	0	Top	0	N/A	0.245	0.068	1.178	0.289	0.080		15.1	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	0.15	3560.00	55340	0.0	12.70	11.93	1	50	Bottom	0	N/A	0.004	0.000	1.194	0.005	0.000		32.9	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	0.03	3560.00	55340	0.0	12.70	11.99	50	0	Bottom	0	N/A	0.007	0.001	1.178	0.008	0.001		30.5	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	-0.04	3560.00	55340	0.0	12.70	11.93	1	50	Right	0	N/A	0.778	0.218	1.194	0.929	0.260		10.0	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	-0.01	3603.30	55773	0.0	12.70	11.80	1	50	Right	0	N/A	0.787	0.219	1.230	0.968	0.269		9.8	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	0.05	3646.70	56207	0.0	12.70	11.92	1	50	Right	0	N/A	0.822	0.226	1.197	0.984	0.271		9.8	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	0.06	3690.00	56640	0.0	12.70	11.92	1	50	Right	0	N/A	0.827	0.226	1.197	0.990	0.271		9.7	9.7
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	-0.03	3560.00	55340	0.0	12.70	11.99	50	0	Right	0	N/A	0.799	0.226	1.178	0.941	0.266		10.0	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	-0.01	3603.30	55773	0.0	12.70	11.86	50	0	Right	0	N/A	0.788	0.218	1.213	0.956	0.264		9.9	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	0.04	3646.70	56207	0.0	12.70	11.95	50	25	Right	0	N/A	0.826	0.227	1.189	0.982	0.270		9.8	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	0.03	3690.00	56640	0.0	12.70	11.98	50	50	Right	0	N/A	0.786	0.217	1.180	0.927	0.256		10.0	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	-0.02	3560.00	55340	0.0	12.70	11.82	100	0	Right	0	N/A	0.733	0.208	1.225	0.898	0.255		10.2	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	0.01	3560.00	55340	0.0	12.70	11.93	1	50	Left	0	N/A	0.000	0.000	1.194	0.000	0.000		48.9	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	0.01	3560.00	55340	0.0	12.70	11.99	50	0	Left	0	N/A	0.000	0.000	1.178	0.000	0.000		49.0	
Body	LTE Band 48	20	QPSK	3a	Q917Y	1:1.58	0.01	3690.00	56640	0.0	12.70	11.85	50	0	Right	0	ULCA 48C	0.782	0.217	1.216	0.951	0.264		9.9	
		20						3670.20	56442				50	50											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-46 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.01	3560.00	55340	0.0	12.90	11.98	1	50	Back	0	N/A	0.603	0.195	1.236	0.745	0.241		11.2	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.00	3603.30	55773	0.0	12.90	12.06	1	50	Back	0	N/A	0.588	0.191	1.213	0.713	0.232		11.4	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.00	3646.70	56207	0.0	12.90	12.19	1	50	Back	0	N/A	0.638	0.204	1.178	0.752	0.240		11.1	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.00	3690.00	56640	0.0	12.90	12.10	1	50	Back	0	N/A	0.626	0.199	1.202	0.752	0.239		11.1	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.02	3560.00	55340	0.0	12.90	12.06	50	50	Back	0	N/A	0.609	0.196	1.213	0.739	0.238		11.2	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.00	3603.30	55773	0.0	12.90	12.03	50	50	Back	0	N/A	0.596	0.193	1.222	0.728	0.236		11.3	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.00	3646.70	56207	0.0	12.90	12.07	50	50	Back	0	N/A	0.647	0.206	1.211	0.784	0.249		11.0	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.01	3690.00	56640	0.0	12.90	12.03	50	50	Back	0	N/A	0.639	0.204	1.222	0.781	0.249		11.0	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.02	3603.30	55773	0.0	12.90	11.96	100	0	Back	0	N/A	0.594	0.193	1.242	0.738	0.240		11.2	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.02	3646.70	56207	0.0	12.90	12.19	1	50	Top	0	N/A	0.187	0.051	1.178	0.220	0.060		16.5	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.03	3646.70	56207	0.0	12.90	12.07	50	50	Top	0	N/A	0.202	0.054	1.211	0.245	0.065		16.0	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.01	3646.70	56207	0.0	12.90	12.19	1	50	Bottom	0	N/A	0.007	0.000	1.178	0.008	0.000		30.7	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.04	3646.70	56207	0.0	12.90	12.07	50	50	Bottom	0	N/A	0.000	0.000	1.211	0.000	0.000		49.1	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.08	3646.70	56207	0.0	12.90	12.19	1	50	Right	0	N/A	0.000	0.000	1.178	0.000	0.000		49.2	10.8
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.02	3646.70	56207	0.0	12.90	12.07	50	50	Right	0	N/A	0.000	0.000	1.211	0.000	0.000		49.1	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.05	3560.00	55340	0.0	12.90	11.98	1	50	Left	0	N/A	0.468	0.124	1.236	0.578	0.153		12.3	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.05	3603.30	55773	0.0	12.90	12.06	1	50	Left	0	N/A	0.494	0.132	1.213	0.599	0.160		12.1	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.09	3646.70	56207	0.0	12.90	12.19	1	50	Left	0	N/A	0.504	0.132	1.178	0.594	0.155		12.2	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.04	3690.00	56640	0.0	12.90	12.10	1	50	Left	0	N/A	0.518	0.136	1.202	0.623	0.163		12.0	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.03	3560.00	55340	0.0	12.90	12.06	50	50	Left	0	N/A	0.473	0.125	1.213	0.574	0.152		12.3	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.01	3603.30	55773	0.0	12.90	12.03	50	50	Left	0	N/A	0.493	0.131	1.222	0.602	0.162		12.1	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.01	3646.70	56207	0.0	12.90	12.07	50	50	Left	0	N/A	0.518	0.135	1.211	0.627	0.163		11.9	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.01	3690.00	56640	0.0	12.90	12.03	50	50	Left	0	N/A	0.532	0.140	1.222	0.650	0.171		11.8	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	-0.04	3603.30	55773	0.0	12.90	11.96	100	0	Left	0	N/A	0.487	0.130	1.242	0.605	0.161		12.1	
Body	LTE Band 48	20	QPSK	4	122JP	1:1.58	0.06	3646.70	56207	0.0	12.90	11.97	50	50	Back	0	ULCA 48C	0.656	0.217	1.239	0.813	0.269		10.8	
		20						3666.50	56405				50	0											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.16 NR Band n71 Standalone SAR

Table 10-47 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n71	20	QPSK	2	C366K	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	21.20	20.13	1	53	Back	0	0.769	0.317	1.279	0.984	0.405	A16	20.3	
Body	NR Band n71	20	QPSK	2	C366K	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	21.20	20.11	50	28	Back	0	0.717	0.301	1.285	0.921	0.387		20.5	
Body	NR Band n71	20	QPSK	2	C366K	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	21.20	20.08	100	0	Back	0	0.559	0.261	1.294	0.723	0.338		21.6	
Body	NR Band n71	20	QPSK	2	C366K	1:1	0.06	680.50	136100	CP-OFDM	0.0	21.20	19.96	1	1	Back	0	0.667	0.309	1.330	0.887	0.411		20.7	
Body	NR Band n71	20	QPSK	2	C366K	1:1	-0.14	680.50	136100	DFT-s-OFDM	0.0	21.20	20.13	1	53	Top	0	0.010	0.003	1.279	0.013	0.004		39.1	
Body	NR Band n71	20	QPSK	2	C366K	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	21.20	20.11	50	28	Top	0	0.015	0.005	1.285	0.019	0.006		37.3	
Body	NR Band n71	20	QPSK	2	C366K	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	21.20	20.13	1	53	Bottom	0	0.471	0.177	1.279	0.602	0.226		22.4	20.3
Body	NR Band n71	20	QPSK	2	C366K	1:1	-0.05	680.50	136100	DFT-s-OFDM	0.0	21.20	20.11	50	28	Bottom	0	0.499	0.188	1.285	0.641	0.242		22.1	
Body	NR Band n71	20	QPSK	2	C366K	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	21.20	20.13	1	53	Right	0	0.488	0.181	1.279	0.624	0.231		22.2	
Body	NR Band n71	20	QPSK	2	C366K	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	21.20	20.11	50	28	Right	0	0.495	0.182	1.285	0.636	0.234		22.1	
Body	NR Band n71	20	QPSK	2	C366K	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	21.20	20.13	1	53	Left	0	0.030	0.012	1.279	0.038	0.015		34.3	
Body	NR Band n71	20	QPSK	2	C366K	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	21.20	20.11	50	28	Left	0	0.029	0.012	1.285	0.037	0.015		34.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-48 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n71	20	QPSK	4	TJND4	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	21.00	20.58	1	53	Back	0	0.707	0.336	1.102	0.779	0.370		21.1	20.4
Body	NR Band n71	20	QPSK	4	TJND4	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	21.00	20.57	50	28	Back	0	0.707	0.336	1.104	0.781	0.371		21.1	
Body	NR Band n71	20	QPSK	4	TJND4	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	21.00	20.42	100	0	Back	0	0.705	0.333	1.143	0.806	0.381		20.9	
Body	NR Band n71	20	QPSK	4	TJND4	1:1	0.00	680.50	136100	CP-OFDM	0.0	21.00	20.01	1	1	Back	0	0.728	0.345	1.256	0.914	0.433		20.4	
Body	NR Band n71	20	QPSK	4	TJND4	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	21.00	20.58	1	53	Top	0	0.524	0.227	1.102	0.577	0.250		22.4	
Body	NR Band n71	20	QPSK	4	TJND4	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	21.00	20.57	50	28	Top	0	0.524	0.226	1.104	0.578	0.250		22.4	
Body	NR Band n71	20	QPSK	4	TJND4	1:1	0.06	680.50	136100	DFT-s-OFDM	0.0	21.00	20.58	1	53	Bottom	0	0.019	0.008	1.102	0.021	0.009		36.8	
Body	NR Band n71	20	QPSK	4	TJND4	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	21.00	20.57	50	28	Bottom	0	0.016	0.007	1.104	0.018	0.008		37.5	
Body	NR Band n71	20	QPSK	4	TJND4	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	21.00	20.58	1	53	Right	0	0.031	0.014	1.102	0.034	0.015		34.6	
Body	NR Band n71	20	QPSK	4	TJND4	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	21.00	20.57	50	28	Right	0	0.032	0.014	1.104	0.035	0.015		34.5	
Body	NR Band n71	20	QPSK	4	TJND4	1:1	-0.06	680.50	136100	DFT-s-OFDM	0.0	21.00	20.58	1	53	Left	0	0.366	0.160	1.102	0.403	0.176		23.9	
Body	NR Band n71	20	QPSK	4	TJND4	1:1	-0.13	680.50	136100	DFT-s-OFDM	0.0	21.00	20.57	50	28	Left	0	0.447	0.184	1.104	0.493	0.203		23.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.17 NR Band n12 Standalone SAR

Table 10-49 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	20.30	19.43	1	1	Back	0	0.795	0.396	1.222	0.971	0.484		19.4	19.4
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	0.12	707.50	141500	DFT-s-OFDM	0.0	20.30	19.42	36	0	Back	0	0.787	0.380	1.225	0.964	0.466		19.4	
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	20.30	19.37	75	0	Back	0	0.759	0.333	1.239	0.940	0.413		19.5	
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	0.00	707.50	141500	CP-OFDM	0.0	20.30	19.43	1	1	Back	0	0.801	0.353	1.222	0.979	0.431	A17	19.4	
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	-0.08	707.50	141500	DFT-s-OFDM	0.0	20.30	19.43	1	1	Top	0	0.010	0.004	1.222	0.012	0.005		38.4	
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	20.30	19.42	36	0	Top	0	0.011	0.004	1.225	0.013	0.005		38.0	
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	20.30	19.43	1	1	Bottom	0	0.520	0.218	1.222	0.635	0.266		21.3	
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	20.30	19.42	36	0	Bottom	0	0.531	0.221	1.225	0.650	0.271		21.1	
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	20.30	19.43	1	1	Right	0	0.652	0.221	1.222	0.797	0.270		20.3	
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	20.30	19.42	36	0	Right	0	0.646	0.221	1.225	0.791	0.271		20.3	
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	20.30	19.43	1	1	Left	0	0.018	0.007	1.222	0.022	0.009		35.9	
Body	NR Band n12	15	QPSK	2	GJ9VR	1:1	-0.07	707.50	141500	DFT-s-OFDM	0.0	20.30	19.42	36	0	Left	0	0.003	0.002	1.225	0.004	0.002		43.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-50 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n12	15	QPSK	4	K9W21	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	20.10	18.31	1	1	Back	0	0.574	0.273	1.510	0.867	0.412		19.7	19.1
Body	NR Band n12	15	QPSK	4	K9W21	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	20.10	18.26	36	0	Back	0	0.576	0.271	1.528	0.880	0.414		19.6	
Body	NR Band n12	15	QPSK	4	K9W21	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	20.10	18.25	75	0	Back	0	0.648	0.291	1.531	0.992	0.446		19.1	
Body	NR Band n12	15	QPSK	4	K9W21	1:1	0.00	707.50	141500	CP-OFDM	0.0	20.10	18.34	1	1	Back	0	0.511	0.263	1.500	0.767	0.395		20.2	
Body	NR Band n12	15	QPSK	4	K9W21	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	20.10	18.31	1	1	Top	0	0.425	0.168	1.510	0.642	0.254		21.0	
Body	NR Band n12	15	QPSK	4	K9W21	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	20.10	18.26	36	0	Top	0	0.372	0.152	1.528	0.568	0.232		21.5	
Body	NR Band n12	15	QPSK	4	K9W21	1:1	0.13	707.50	141500	DFT-s-OFDM	0.0	20.10	18.31	1	1	Bottom	0	0.015	0.006	1.510	0.023	0.009		35.5	
Body	NR Band n12	15	QPSK	4	K9W21	1:1	0.10	707.50	141500	DFT-s-OFDM	0.0	20.10	18.26	36	0	Bottom	0	0.013	0.005	1.528	0.020	0.008		36.1	
Body	NR Band n12	15	QPSK	4	K9W21	1:1	-0.19	707.50	141500	DFT-s-OFDM	0.0	20.10	18.31	1	1	Right	0	0.018	0.007	1.510	0.027	0.011		34.7	
Body	NR Band n12	15	QPSK	4	K9W21	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	20.10	18.26	36	0	Right	0	0.018	0.008	1.528	0.028	0.012		34.7	
Body	NR Band n12	15	QPSK	4	K9W21	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	20.10	18.31	1	1	Left	0	0.345	0.127	1.510	0.521	0.192		21.9	
Body	NR Band n12	15	QPSK	4	K9W21	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	20.10	18.26	36	0	Left	0	0.357	0.132	1.528	0.545	0.202		21.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.18 NR Band n14 Standalone SAR

Table 10-51 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	20.20	19.45	1	26	Back	0	0.704	0.308	1.189	0.837	0.366		20.0	19.3
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	20.20	19.43	25	14	Back	0	0.704	0.302	1.194	0.841	0.361		19.9	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	20.20	19.40	50	0	Back	0	0.707	0.308	1.202	0.850	0.370		19.9	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	0.02	793.00	158600	DFT-s-OFDM	0.0	20.20	19.45	1	26	Top	0	0.021	0.009	1.189	0.025	0.011		35.2	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	20.20	19.43	25	14	Top	0	0.020	0.008	1.194	0.024	0.010		35.4	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	20.20	19.45	1	26	Bottom	0	0.670	0.259	1.189	0.797	0.308		20.2	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	0.02	793.00	158600	DFT-s-OFDM	0.0	20.20	19.43	25	14	Bottom	0	0.712	0.268	1.194	0.850	0.320		19.9	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	20.20	19.40	50	0	Bottom	0	0.661	0.259	1.202	0.795	0.311		20.2	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	20.20	19.45	1	26	Right	0	0.776	0.293	1.189	0.923	0.348		19.5	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	20.20	19.43	25	14	Right	0	0.779	0.293	1.194	0.930	0.350		19.5	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	20.20	19.40	50	0	Right	0	0.788	0.294	1.202	0.947	0.353		19.4	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	0.01	793.00	158600	CP-OFDM	0.0	20.20	19.33	1	1	Right	0	0.789	0.286	1.222	0.964	0.349	A18	19.3	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	20.20	19.45	1	26	Left	0	0.037	0.017	1.189	0.044	0.020		32.7	
Body	NR Band n14	10	QPSK	2	3HHDQ	1:1	0.05	793.00	158600	DFT-s-OFDM	0.0	20.20	19.43	25	14	Left	0	0.039	0.019	1.194	0.047	0.023		32.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-52 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	21.80	20.36	1	1	Back	0	0.709	0.301	1.393	0.988	0.419		20.8	
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	21.80	20.11	25	0	Back	0	0.668	0.284	1.476	0.986	0.419		20.8	
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	21.80	20.00	50	0	Back	0	0.630	0.272	1.514	0.954	0.412		21.0	
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	0.01	793.00	158600	CP-OFDM	0.0	21.80	20.13	1	1	Back	0	0.632	0.270	1.469	0.928	0.397		21.1	
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	21.80	20.36	1	1	Top	0	0.632	0.238	1.393	0.880	0.332		21.3	
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	21.80	20.11	25	0	Top	0	0.627	0.234	1.476	0.925	0.345		21.1	
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	-0.06	793.00	158600	DFT-s-OFDM	0.0	21.80	20.00	50	0	Top	0	0.544	0.210	1.514	0.824	0.318		21.6	20.8
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	21.80	20.36	1	1	Bottom	0	0.024	0.011	1.393	0.033	0.015		35.5	
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	21.80	20.11	25	0	Bottom	0	0.025	0.011	1.476	0.037	0.016		35.1	
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	21.80	20.36	1	1	Right	0	0.041	0.019	1.393	0.057	0.026		33.2	
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	21.80	20.11	25	0	Right	0	0.037	0.018	1.476	0.055	0.027		33.4	
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	21.80	20.36	1	1	Left	0	0.493	0.211	1.393	0.687	0.294		22.4	
Body	NR Band n14	10	QPSK	4	WR4CD	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	21.80	20.11	25	0	Left	0	0.489	0.210	1.476	0.722	0.310		22.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.19 NR Band n26 Standalone SAR

Table 10-53 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	19.80	19.47	1	53	Back	0	0.791	0.401	1.079	0.853	0.433		19.5	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	19.80	19.44	50	28	Back	0	0.788	0.399	1.086	0.856	0.433		19.5	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	19.80	19.43	100	0	Back	0	0.774	0.399	1.089	0.843	0.435		19.5	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	-0.10	831.50	166300	DFT-s-OFDM	0.0	19.80	19.47	1	53	Top	0	0.034	0.012	1.079	0.037	0.013		33.1	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	-0.13	831.50	166300	DFT-s-OFDM	0.0	19.80	19.44	50	28	Top	0	0.037	0.013	1.086	0.040	0.014		32.7	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	19.80	19.47	1	53	Bottom	0	0.700	0.269	1.079	0.755	0.290		20.0	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	19.80	19.44	50	28	Bottom	0	0.743	0.282	1.086	0.807	0.306		19.7	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	19.80	19.43	100	0	Bottom	0	0.749	0.284	1.089	0.816	0.309		19.7	19.2
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	19.80	19.47	1	53	Right	0	0.814	0.293	1.079	0.878	0.316		19.3	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	19.80	19.44	50	28	Right	0	0.830	0.298	1.086	0.901	0.324		19.2	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	19.80	19.43	100	0	Right	0	0.797	0.294	1.089	0.868	0.320		19.4	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	0.04	831.50	166300	CP-OFDM	0.0	19.80	19.46	1	1	Right	0	0.817	0.296	1.081	0.883	0.320		19.3	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	0.12	831.50	166300	DFT-s-OFDM	0.0	19.80	19.47	1	53	Left	0	0.045	0.020	1.079	0.049	0.022		31.9	
Body	NR Band n26	20	QPSK	2	K57NMW	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	19.80	19.44	50	28	Left	0	0.046	0.021	1.086	0.050	0.023		31.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-54 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n26	20	QPSK	4	3HHDQ	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	20.00	19.76	1	53	Back	0	0.809	0.376	1.057	0.855	0.397		19.7	
Body	NR Band n26	20	QPSK	4	57NMW	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	20.00	19.71	50	28	Back	0	0.844	0.388	1.069	0.902	0.415		19.4	
Body	NR Band n26	20	QPSK	4	57NMW	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	20.00	19.70	100	0	Back	0	0.781	0.398	1.072	0.837	0.427		19.8	
Body	NR Band n26	20	QPSK	4	57NMW	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	20.00	19.76	1	53	Top	0	0.733	0.289	1.057	0.775	0.305		20.1	
Body	NR Band n26	20	QPSK	4	57NMW	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	20.00	19.71	50	28	Top	0	0.804	0.305	1.069	0.859	0.326		19.6	
Body	NR Band n26	20	QPSK	4	57NMW	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	20.00	19.70	100	0	Top	0	0.774	0.301	1.072	0.830	0.323		19.8	
Body	NR Band n26	20	QPSK	4	57NMW	1:1	-0.17	831.50	166300	DFT-s-OFDM	0.0	20.00	19.76	1	53	Bottom	0	0.030	0.012	1.057	0.032	0.013		34.0	
Body	NR Band n26	20	QPSK	4	57MNW	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	20.00	19.71	50	28	Bottom	0	0.018	0.009	1.069	0.019	0.010		36.1	19.2
Body	NR Band n26	20	QPSK	4	57MNW	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	20.00	19.76	1	53	Right	0	0.031	0.014	1.057	0.033	0.015		33.8	
Body	NR Band n26	20	QPSK	4	57MNW	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	20.00	19.71	50	28	Right	0	0.038	0.018	1.069	0.041	0.019		32.9	
Body	NR Band n26	20	QPSK	4	57NMW	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	20.00	19.76	1	53	Left	0	0.857	0.324	1.057	0.906	0.342		19.4	
Body	NR Band n26	20	QPSK	4	57NMW	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	20.00	19.71	50	28	Left	0	0.863	0.322	1.069	0.923	0.344		19.3	
Body	NR Band n26	20	QPSK	4	57NMW	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	20.00	19.70	100	0	Left	0	0.892	0.327	1.072	0.956	0.351	A19	19.2	
Body	NR Band n26	20	QPSK	4	57NMW	1:1	-0.07	831.50	166300	CP-OFDM	0.0	20.00	19.75	1	1	Left	0	0.845	0.313	1.059	0.895	0.331		19.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.20 NR Band n5 Standalone SAR

Table 10-55 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n5	20	QPSK	2	K9W21	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	19.80	19.33	1	1	Back	0	0.758	0.371	1.114	0.844	0.413		19.5	
Body	NR Band n5	20	QPSK	2	K9W21	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	19.80	19.31	50	0	Back	0	0.697	0.329	1.119	0.780	0.368		19.9	
Body	NR Band n5	20	QPSK	2	K9W21	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	19.80	19.28	100	0	Back	0	0.676	0.314	1.127	0.762	0.354		20.0	
Body	NR Band n5	20	QPSK	2	K9W21	1:1	0.05	836.50	167300	DFT-s-OFDM	0.0	19.80	19.33	1	1	Top	0	0.030	0.011	1.114	0.033	0.012		33.5	
Body	NR Band n5	20	QPSK	2	K9W21	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	19.80	19.31	50	0	Top	0	0.032	0.013	1.119	0.036	0.015		33.2	
Body	NR Band n5	20	QPSK	2	K9W21	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	19.80	19.33	1	1	Bottom	0	0.645	0.252	1.114	0.719	0.281		20.2	
Body	NR Band n5	20	QPSK	2	K9W21	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	19.80	19.31	50	0	Bottom	0	0.641	0.247	1.119	0.717	0.276		20.2	19.1
Body	NR Band n5	20	QPSK	2	K9W21	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	19.80	19.33	1	1	Right	0	0.823	0.287	1.114	0.917	0.320	A20	19.2	
Body	NR Band n5	20	QPSK	2	K9W21	1:1	0.05	836.50	167300	DFT-s-OFDM	0.0	19.80	19.31	50	0	Right	0	0.821	0.289	1.119	0.919	0.323		19.1	
Body	NR Band n5	20	QPSK	2	K9W21	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	19.80	19.28	100	0	Right	0	0.780	0.284	1.127	0.879	0.320		19.3	
Body	NR Band n5	20	QPSK	2	K9W21	1:1	0.02	836.50	167300	CP-OFDM	0.0	19.80	19.32	1	1	Right	0	0.791	0.283	1.117	0.884	0.316		19.3	
Body	NR Band n5	20	QPSK	2	K9W21	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	19.80	19.33	1	1	Left	0	0.038	0.018	1.114	0.042	0.020		32.5	
Body	NR Band n5	20	QPSK	2	K9W21	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	19.80	19.31	50	0	Left	0	0.029	0.015	1.119	0.032	0.017		33.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-56 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n5	20	QPSK	4	57NMW	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	20.00	18.91	1	1	Back	0	0.681	0.323	1.285	0.875	0.415		19.6	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	20.00	18.84	50	0	Back	0	0.643	0.304	1.306	0.840	0.397		19.7	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	-0.10	836.50	167300	DFT-s-OFDM	0.0	20.00	18.77	100	0	Back	0	0.615	0.291	1.327	0.816	0.386		19.9	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	20.00	18.91	1	1	Top	0	0.623	0.242	1.285	0.801	0.311		19.9	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	20.00	18.84	50	0	Top	0	0.642	0.247	1.306	0.838	0.323		19.7	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	20.00	18.77	100	0	Top	0	0.625	0.241	1.327	0.829	0.320		19.8	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	20.00	18.91	1	1	Bottom	0	0.033	0.013	1.285	0.042	0.017		32.7	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	20.00	18.84	50	0	Bottom	0	0.036	0.014	1.306	0.047	0.018		32.3	19.1
Body	NR Band n5	20	QPSK	4	57NMW	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	20.00	18.91	1	1	Right	0	0.028	0.014	1.285	0.036	0.018		33.4	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	20.00	18.84	50	0	Right	0	0.032	0.015	1.306	0.042	0.020		32.8	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	20.00	18.91	1	1	Left	0	0.725	0.261	1.285	0.932	0.335		19.3	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	20.00	18.84	50	0	Left	0	0.727	0.264	1.306	0.949	0.345		19.2	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	20.00	18.77	100	0	Left	0	0.722	0.265	1.327	0.958	0.352		19.2	
Body	NR Band n5	20	QPSK	4	57NMW	1:1	0.05	836.50	167300	CP-OFDM	0.0	20.00	18.88	1	1	Left	0	0.759	0.277	1.294	0.982	0.358		19.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.21 NR Band n70 Standalone SAR

Table 10-57 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	1b	992LN	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.43	1	1	Back	0	0.733	0.290	1.140	0.836	0.331		12.8	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.42	36	22	Back	0	0.848	0.334	1.143	0.969	0.382		12.1	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.40	75	0	Back	0	0.864	0.343	1.148	0.992	0.394		12.0	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	0.02	1702.50	340500	CP-OFDM	0.0	13.00	12.16	1	1	Back	0	0.696	0.280	1.213	0.844	0.340		12.7	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.43	1	1	Top	0	0.000	0.000	1.140	0.000	0.000		51.4	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.42	36	22	Top	0	0.000	0.000	1.143	0.000	0.000		51.4	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.43	1	1	Bottom	0	0.559	0.205	1.140	0.637	0.234		13.9	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.42	36	22	Bottom	0	0.542	0.200	1.143	0.620	0.229		14.1	12.0
Body	NR Band n70	15	QPSK	1b	992LN	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.40	75	0	Bottom	0	0.562	0.205	1.148	0.645	0.235		13.9	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.43	1	1	Right	0	0.006	0.002	1.140	0.007	0.002		33.6	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.42	36	22	Right	0	0.010	0.004	1.143	0.011	0.005		31.4	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.43	1	1	Left	0	0.033	0.015	1.140	0.038	0.017		26.2	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	-0.10	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.42	36	22	Left	0	0.035	0.015	1.143	0.040	0.017		26.0	
Body	NR Band n70	15	QPSK	1b	992LN	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	13.00	12.40	75	0	Left	0	0.035	0.016	1.148	0.040	0.018		25.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-58 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	2	0N659	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.58	1	1	Back	0	0.763	0.326	1.236	0.943	0.403		14.7	
Body	NR Band n70	15	QPSK	2	0N659	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.54	36	0	Back	0	0.769	0.330	1.247	0.959	0.412		14.7	
Body	NR Band n70	15	QPSK	2	0N659	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.51	75	0	Back	0	0.774	0.331	1.256	0.972	0.416		14.6	
Body	NR Band n70	15	QPSK	2	0N659	1:1	0.01	1702.50	340500	CP-OFDM	0.0	15.50	14.60	1	1	Back	0	0.792	0.338	1.230	0.974	0.416		14.6	
Body	NR Band n70	15	QPSK	2	0N659	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.58	1	1	Top	0	0.000	0.000	1.236	0.000	0.000		53.6	
Body	NR Band n70	15	QPSK	2	0N659	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.54	36	0	Top	0	0.001	0.000	1.247	0.001	0.000		43.5	
Body	NR Band n70	15	QPSK	2	0N659	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.58	1	1	Bottom	0	0.290	0.117	1.236	0.358	0.145		18.9	14.6
Body	NR Band n70	15	QPSK	2	0N659	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.54	36	0	Bottom	0	0.294	0.118	1.247	0.367	0.147		18.8	
Body	NR Band n70	15	QPSK	2	0N659	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.58	1	1	Right	0	0.502	0.167	1.236	0.620	0.206		16.6	
Body	NR Band n70	15	QPSK	2	0N659	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.54	36	0	Right	0	0.518	0.173	1.247	0.646	0.216		16.4	
Body	NR Band n70	15	QPSK	2	0N659	1:1	-0.21	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.58	1	1	Left	0	0.004	0.002	1.236	0.005	0.002		37.5	
Body	NR Band n70	15	QPSK	2	0N659	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.54	36	0	Left	0	0.003	0.001	1.247	0.004	0.001		38.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-59 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	13.50	13.18	1	77	Back	0	0.372	0.155	1.076	0.400	0.167		16.5	12.9
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	13.50	13.07	36	22	Back	0	0.370	0.156	1.104	0.408	0.172		16.4	
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	13.50	13.18	1	77	Top	0	0.671	0.246	1.076	0.722	0.265		13.9	
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	13.50	13.07	36	22	Top	0	0.779	0.284	1.104	0.860	0.314		13.1	
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.95	75	0	Top	0	0.795	0.287	1.135	0.902	0.326		12.9	
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	0.06	1702.50	340500	CP-OFDM	0.0	13.50	13.18	1	1	Top	0	0.728	0.265	1.076	0.783	0.285		13.5	
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	13.50	13.18	1	77	Bottom	0	0.000	0.000	1.076	0.000	0.000		52.2	
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	13.50	13.07	36	22	Bottom	0	0.000	0.000	1.104	0.000	0.000		52.1	
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	-0.08	1702.50	340500	DFT-s-OFDM	0.0	13.50	13.18	1	77	Right	0	0.037	0.016	1.076	0.040	0.017		26.5	
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	13.50	13.07	36	22	Right	0	0.041	0.017	1.104	0.045	0.019		25.9	
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	13.50	13.18	1	77	Left	0	0.014	0.006	1.076	0.015	0.006		30.7	
Body	NR Band n70	15	QPSK	3b	JGQGX	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	13.50	13.07	36	22	Left	0	0.015	0.007	1.104	0.017	0.008		30.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-60 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.37	1	1	Back	0	0.743	0.333	1.054	0.783	0.351		15.6	14.7
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.29	36	0	Back	0	0.752	0.337	1.074	0.808	0.362		15.5	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.24	75	0	Back	0	0.886	0.396	1.086	0.962	0.430		14.7	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.37	1	1	Top	0	0.484	0.213	1.054	0.510	0.225		17.5	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.29	36	0	Top	0	0.513	0.216	1.074	0.551	0.232		17.2	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.24	75	0	Top	0	0.563	0.244	1.086	0.611	0.265		16.7	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.37	1	1	Bottom	0	0.003	0.001	1.054	0.003	0.001		39.6	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.29	36	0	Bottom	0	0.002	0.001	1.074	0.002	0.001		41.3	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.37	1	1	Right	0	0.002	0.000	1.054	0.002	0.000		41.3	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.29	36	0	Right	0	0.003	0.001	1.074	0.003	0.001		39.5	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.37	1	1	Left	0	0.913	0.324	1.054	0.962	0.341	A21	14.7	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	-0.00	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.37	1	1	Left	0	0.903	0.321	1.054	0.952	0.338		14.8	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.29	36	0	Left	0	0.850	0.305	1.074	0.913	0.328		15.0	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	15.60	15.24	75	0	Left	0	0.879	0.312	1.086	0.955	0.339		14.8	
Body	NR Band n70	15	QPSK	4	WR4CD	1:1	-0.01	1702.50	340500	CP-OFDM	0.0	15.60	15.20	1	1	Left	0	0.856	0.308	1.096	0.938	0.338		14.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement

10.22 NR Band n66 Standalone SAR

Table 10-61 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.07	1	214	Back	0	0.672	0.266	1.239	0.833	0.330		12.8	12.8
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	-0.15	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.13	108	0	Back	0	0.468	0.189	1.222	0.572	0.231		14.4	
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	-0.14	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.04	216	0	Back	0	0.643	0.256	1.247	0.802	0.319		12.9	
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	-0.03	1745.00	349000	CP-OFDM	0.0	13.00	11.99	1	1	Back	0	0.573	0.229	1.262	0.723	0.289		13.4	
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.07	1	214	Top	0	0.000	0.000	1.239	0.000	0.000		51.1	
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.13	108	0	Top	0	0.000	0.000	1.222	0.000	0.000		51.1	
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.07	1	214	Bottom	0	0.592	0.217	1.239	0.733	0.269		13.3	
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.13	108	0	Bottom	0	0.571	0.209	1.222	0.698	0.255		13.5	
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.04	216	0	Bottom	0	0.587	0.215	1.247	0.732	0.268		13.3	
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.07	1	214	Right	0	0.007	0.003	1.239	0.009	0.004		32.6	
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.13	108	0	Right	0	0.011	0.005	1.222	0.013	0.006		30.7	
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	0.11	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.07	1	214	Left	0	0.033	0.014	1.239	0.041	0.017		25.9	
Body	NR Band n66	40	QPSK	1b	5002Q	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	13.00	12.13	108	0	Left	0	0.036	0.015	1.222	0.044	0.018		25.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-62 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.25	1	108	Back	0	0.651	0.284	1.334	0.868	0.379		15.1	14.5
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.27	108	0	Back	0	0.679	0.294	1.327	0.901	0.390		14.9	
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.23	216	0	Back	0	0.657	0.285	1.340	0.880	0.382		15.0	
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	-0.06	1745.00	349000	CP-OFDM	0.0	15.50	14.31	1	1	Back	0	0.749	0.319	1.315	0.985	0.419		14.5	
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.25	1	108	Top	0	0.000	0.000	1.334	0.000	0.000		53.2	
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.27	108	0	Top	0	0.000	0.000	1.327	0.000	0.000		53.3	
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.25	1	108	Bottom	0	0.292	0.118	1.334	0.390	0.157		18.6	
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.27	108	0	Bottom	0	0.298	0.120	1.327	0.395	0.159		18.5	
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	0.12	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.25	1	108	Right	0	0.630	0.211	1.334	0.840	0.281		15.2	
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.27	108	0	Right	0	0.650	0.217	1.327	0.863	0.288		15.1	
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.23	216	0	Right	0	0.629	0.209	1.340	0.843	0.280		15.2	
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	0.20	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.25	1	108	Left	0	0.007	0.003	1.334	0.009	0.004		34.8	
Body	NR Band n66	40	QPSK	2	JGQGX	1:1	-0.14	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.27	108	0	Left	0	0.006	0.002	1.327	0.008	0.003		35.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-63 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	13.50	13.05	1	214	Back	0	0.393	0.165	1.109	0.436	0.183		16.1	12.5
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	13.50	13.06	108	0	Back	0	0.371	0.157	1.107	0.411	0.174		16.3	
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	13.50	13.05	1	214	Top	0	0.830	0.297	1.109	0.920	0.329		12.8	
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	13.50	13.06	108	0	Top	0	0.833	0.298	1.107	0.922	0.330		12.8	
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	-0.12	1745.00	349000	DFT-s-OFDM	0.0	13.50	13.04	216	0	Top	0	0.837	0.299	1.112	0.931	0.332	A22	12.8	
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	0.00	1745.00	349000	CP-OFDM	0.0	13.50	12.66	1	1	Top	0	0.812	0.289	1.213	0.985	0.351		12.5	
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	13.50	13.05	1	214	Bottom	0	0.000	0.000	1.109	0.000	0.000		52.0	
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	13.50	13.06	108	0	Bottom	0	0.000	0.000	1.107	0.000	0.000		52.0	
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	13.50	13.05	1	214	Right	0	0.043	0.019	1.109	0.048	0.021		25.7	
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	-0.08	1745.00	349000	DFT-s-OFDM	0.0	13.50	13.06	108	0	Right	0	0.040	0.017	1.107	0.044	0.019		26.0	
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	13.50	13.05	1	214	Left	0	0.017	0.007	1.109	0.019	0.008		29.7	
Body	NR Band n66	40	QPSK	3b	K9W21	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	13.50	13.06	108	0	Left	0	0.008	0.004	1.107	0.009	0.004		33.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-64 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.58	1	108	Back	0	0.587	0.269	1.265	0.743	0.340		15.9	15.0
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.63	108	0	Back	0	0.725	0.289	1.250	0.906	0.361		15.0	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.57	216	0	Back	0	0.672	0.293	1.268	0.852	0.372		15.3	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	-0.01	1745.00	349000	CP-OFDM	0.0	15.60	14.58	1	1	Back	0	0.691	0.275	1.265	0.874	0.348		15.2	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.58	1	108	Top	0	0.474	0.196	1.265	0.600	0.248		16.8	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.63	108	0	Top	0	0.476	0.197	1.250	0.595	0.246		16.8	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.57	216	0	Top	0	0.465	0.192	1.268	0.590	0.243		16.9	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.58	1	108	Bottom	0	0.004	0.001	1.265	0.005	0.001		37.5	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.63	108	0	Bottom	0	0.005	0.002	1.250	0.006	0.003		36.6	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.58	1	108	Right	0	0.002	0.000	1.265	0.003	0.000		40.6	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.63	108	0	Right	0	0.003	0.002	1.250	0.004	0.003		38.8	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.58	1	108	Left	0	0.708	0.254	1.265	0.896	0.321		15.1	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.63	108	0	Left	0	0.645	0.241	1.250	0.806	0.301		15.5	
Body	NR Band n66	40	QPSK	4	7G6K7	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	15.60	14.57	216	0	Left	0	0.660	0.243	1.268	0.837	0.308		15.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.23 NR Band n25 Standalone SAR

Table 10-65 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	11.90	11.28	1	108	Back	0	0.800	0.301	1.153	0.922	0.347		11.2	10.9
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	11.90	11.25	108	108	Back	0	0.806	0.305	1.161	0.936	0.354		11.2	
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	11.90	11.21	216	0	Back	0	0.817	0.313	1.172	0.958	0.367		11.1	
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	0.01	1882.50	376500	CP-OFDM	0.0	11.90	11.10	1	1	Back	0	0.826	0.314	1.202	0.993	0.377	A23	10.9	
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	-0.17	1882.50	376500	DFT-s-OFDM	0.0	11.90	11.28	1	108	Top	0	0.001	0.000	1.153	0.001	0.000		40.3	
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	11.90	11.25	108	108	Top	0	0.001	0.000	1.161	0.001	0.000		40.2	
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	11.90	11.28	1	108	Bottom	0	0.468	0.163	1.153	0.540	0.188		13.6	
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	11.90	11.25	108	108	Bottom	0	0.472	0.168	1.161	0.548	0.195		13.5	
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	0.15	1882.50	376500	DFT-s-OFDM	0.0	11.90	11.28	1	108	Right	0	0.005	0.002	1.153	0.006	0.002		33.3	
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	-0.17	1882.50	376500	DFT-s-OFDM	0.0	11.90	11.25	108	108	Right	0	0.010	0.004	1.161	0.012	0.005		30.2	
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	0.13	1882.50	376500	DFT-s-OFDM	0.0	11.90	11.28	1	108	Left	0	0.028	0.011	1.153	0.032	0.013		25.8	
Body	NR Band n25	40	QPSK	1b	GGXKH	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	11.90	11.25	108	108	Left	0	0.031	0.012	1.161	0.036	0.014		25.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-66 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	15.60	14.47	1	1	Back	0	0.747	0.305	1.297	0.969	0.396		14.7	14.7
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	15.60	14.46	108	108	Back	0	0.718	0.288	1.300	0.933	0.374		14.9	
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	15.60	14.45	216	0	Back	0	0.716	0.286	1.303	0.933	0.373		14.9	
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	0.01	1882.50	376500	CP-OFDM	0.0	15.60	14.52	1	1	Back	0	0.755	0.295	1.282	0.968	0.378		14.7	
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	15.60	14.47	1	1	Top	0	0.003	0.000	1.297	0.004	0.000		38.7	
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	15.60	14.46	108	108	Top	0	0.004	0.001	1.300	0.005	0.001		37.4	
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	15.60	14.47	1	1	Bottom	0	0.265	0.100	1.297	0.344	0.130		19.2	
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	15.60	14.46	108	108	Bottom	0	0.297	0.126	1.300	0.386	0.164		18.7	
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	0.08	1882.50	376500	DFT-s-OFDM	0.0	15.60	14.47	1	1	Right	0	0.558	0.183	1.297	0.724	0.237		16.0	
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	15.60	14.46	108	108	Right	0	0.526	0.174	1.300	0.684	0.226		16.2	
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	15.60	14.47	1	1	Left	0	0.003	0.000	1.297	0.004	0.000		38.7	
Body	NR Band n25	40	QPSK	2	JGQGX	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	15.60	14.46	108	108	Left	0	0.002	0.000	1.300	0.003	0.000		40.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-67 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	3b	C366K	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.00	12.13	1	1	Back	0	0.525	0.216	1.222	0.642	0.264		13.9	12.2
Body	NR Band n25	40	QPSK	3b	C366K	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	13.00	12.12	108	54	Back	0	0.598	0.243	1.225	0.733	0.298		13.3	
Body	NR Band n25	40	QPSK	3b	C366K	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	13.00	12.13	1	1	Top	0	0.780	0.277	1.222	0.953	0.338		12.2	
Body	NR Band n25	40	QPSK	3b	C366K	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	13.00	12.12	108	54	Top	0	0.741	0.263	1.225	0.908	0.322		12.4	
Body	NR Band n25	40	QPSK	3b	C366K	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	13.00	12.08	216	0	Top	0	0.696	0.249	1.236	0.860	0.308		12.6	
Body	NR Band n25	40	QPSK	3b	C366K	1:1	-0.01	1882.50	376500	CP-OFDM	0.0	13.00	12.23	1	1	Top	0	0.720	0.255	1.194	0.860	0.304		12.6	
Body	NR Band n25	40	QPSK	3b	C366K	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.00	12.13	1	1	Bottom	0	0.002	0.000	1.222	0.002	0.000		38.1	
Body	NR Band n25	40	QPSK	3b	C366K	1:1	0.08	1882.50	376500	DFT-s-OFDM	0.0	13.00	12.12	108	54	Bottom	0	0.001	0.000	1.225	0.001	0.000		41.1	
Body	NR Band n25	40	QPSK	3b	C366K	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	13.00	12.13	1	1	Right	0	0.033	0.016	1.222	0.040	0.020		25.9	
Body	NR Band n25	40	QPSK	3b	C366K	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	13.00	12.12	108	54	Right	0	0.036	0.014	1.225	0.044	0.017		25.5	
Body	NR Band n25	40	QPSK	3b	C366K	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	13.00	12.13	1	1	Left	0	0.013	0.005	1.222	0.016	0.006		30.0	
Body	NR Band n25	40	QPSK	3b	C366K	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.00	12.12	108	54	Left	0	0.008	0.003	1.225	0.010	0.004		32.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-68 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.60	1	108	Back	0	0.669	0.278	1.288	0.862	0.358		14.3	14.0
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.55	108	54	Back	0	0.663	0.274	1.303	0.864	0.357		14.3	
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.54	216	0	Back	0	0.671	0.277	1.306	0.876	0.362		14.3	
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.60	1	108	Top	0	0.322	0.127	1.288	0.415	0.164		17.5	
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.55	108	54	Top	0	0.319	0.126	1.303	0.416	0.164		17.5	
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	0.09	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.60	1	108	Bottom	0	0.000	0.000	1.288	0.000	0.000		52.6	
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.55	108	54	Bottom	0	0.000	0.000	1.303	0.000	0.000		52.5	
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.60	1	108	Right	0	0.000	0.000	1.288	0.000	0.000		52.6	
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.55	108	54	Right	0	0.001	0.000	1.303	0.001	0.000		42.5	
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.60	1	108	Left	0	0.715	0.249	1.288	0.921	0.321		14.0	
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.55	108	54	Left	0	0.702	0.245	1.303	0.915	0.319		14.1	
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	14.70	13.54	216	0	Left	0	0.689	0.240	1.306	0.900	0.313		14.1	
Body	NR Band n25	40	QPSK	4	7G6K7	1:1	0.03	1882.50	376500	CP-OFDM	0.0	14.70	13.69	1	1	Left	0	0.707	0.251	1.262	0.892	0.317		14.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.24 NR Band n30 Standalone SAR

Table 10-69 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.87	1	1	Back	0	0.688	0.253	1.390	0.956	0.352		12.5	12.5
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.84	25	14	Back	0	0.682	0.249	1.400	0.955	0.349		12.5	
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.82	50	0	Back	0	0.673	0.247	1.406	0.946	0.347		12.5	
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	0.00	2310.00	462000	CP-OFDM	0.0	13.30	11.73	1	1	Back	0	0.656	0.239	1.435	0.941	0.343		12.5	
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.87	1	1	Top	0	0.000	0.000	1.390	0.000	0.000		50.9	
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	-0.10	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.84	25	14	Top	0	0.001	0.000	1.400	0.001	0.000		40.8	
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.87	1	1	Bottom	0	0.609	0.210	1.390	0.847	0.292		13.0	
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.84	25	14	Bottom	0	0.568	0.190	1.400	0.795	0.266		13.3	
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.82	50	0	Bottom	0	0.571	0.191	1.406	0.803	0.269		13.2	
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.87	1	1	Right	0	0.008	0.002	1.390	0.011	0.003		31.8	
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.84	25	14	Right	0	0.007	0.002	1.400	0.010	0.003		32.4	
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	-0.12	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.87	1	1	Left	0	0.017	0.006	1.390	0.024	0.008		28.5	
Body	NR Band n30	10	QPSK	1b	QQJKG	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	13.30	11.84	25	14	Left	0	0.017	0.007	1.400	0.024	0.010		28.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-70 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	14.00	13.05	1	1	Back	0	0.718	0.288	1.245	0.894	0.359		13.5	13.4
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	14.00	13.00	25	0	Back	0	0.713	0.286	1.259	0.898	0.360		13.5	
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	14.00	12.93	50	0	Back	0	0.704	0.281	1.279	0.900	0.359		13.4	
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	0.04	2310.00	462000	CP-OFDM	0.0	14.00	12.95	1	1	Back	0	0.708	0.283	1.274	0.902	0.361		13.4	
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	14.00	13.05	1	1	Top	0	0.008	0.003	1.245	0.010	0.004		33.0	
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	14.00	13.00	25	0	Top	0	0.008	0.003	1.259	0.010	0.004		33.0	
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	14.00	13.05	1	1	Bottom	0	0.297	0.096	1.245	0.370	0.120		17.3	
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	14.00	13.00	25	0	Bottom	0	0.291	0.094	1.259	0.366	0.118		17.3	
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	14.00	13.05	1	1	Right	0	0.693	0.254	1.245	0.863	0.316		13.6	
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	14.00	13.00	25	0	Right	0	0.675	0.247	1.259	0.850	0.311		13.7	
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	14.00	12.93	50	0	Right	0	0.679	0.248	1.279	0.868	0.317		13.6	
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	14.00	13.05	1	1	Left	0	0.002	0.000	1.245	0.002	0.000		39.0	
Body	NR Band n30	10	QPSK	2	7KDXJ	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	14.00	13.00	25	0	Left	0	0.002	0.000	1.259	0.003	0.000		39.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-71 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.79	1	50	Back	0	0.598	0.234	1.074	0.642	0.251		14.0	12.3
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.74	25	14	Back	0	0.667	0.265	1.086	0.724	0.288		13.5	
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.79	1	50	Top	0	0.827	0.303	1.074	0.888	0.325		12.6	
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.74	25	14	Top	0	0.830	0.303	1.086	0.901	0.329		12.5	
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.69	50	0	Top	0	0.842	0.307	1.099	0.925	0.337		12.4	
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	0.01	2310.00	462000	CP-OFDM	0.0	13.10	12.67	1	1	Top	0	0.867	0.317	1.104	0.957	0.350	A24	12.3	
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.79	1	50	Bottom	0	0.001	0.000	1.074	0.001	0.000		41.8	
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.74	25	14	Bottom	0	0.000	0.000	1.086	0.000	0.000		51.7	
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.79	1	50	Right	0	0.041	0.017	1.074	0.044	0.018		25.6	
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	-0.20	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.74	25	14	Right	0	0.039	0.017	1.086	0.042	0.018		25.8	
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	-0.13	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.79	1	50	Left	0	0.036	0.012	1.074	0.039	0.013		26.2	
Body	NR Band n30	10	QPSK	3b	DW7WF	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.74	25	14	Left	0	0.038	0.013	1.086	0.041	0.014		25.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-72 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	15.50	14.27	1	26	Back	0	0.727	0.290	1.327	0.965	0.385		14.6	
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	15.50	14.16	25	0	Back	0	0.710	0.283	1.361	0.966	0.385		14.6	
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	15.50	14.13	50	0	Back	0	0.715	0.285	1.371	0.980	0.391		14.6	
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	-0.02	2310.00	462000	CP-OFDM	0.0	15.50	14.14	1	1	Back	0	0.717	0.286	1.368	0.981	0.391		14.6	
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	15.50	14.27	1	26	Top	0	0.542	0.210	1.327	0.719	0.279		15.9	
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	15.50	14.16	25	0	Top	0	0.491	0.185	1.361	0.668	0.252		16.2	
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	15.50	14.27	1	26	Bottom	0	0.000	0.000	1.327	0.000	0.000		53.3	
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	15.50	14.16	25	0	Bottom	0	0.004	0.000	1.361	0.005	0.000		37.1	
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	15.50	14.27	1	26	Right	0	0.000	0.000	1.327	0.000	0.000		53.3	
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	15.50	14.16	25	0	Right	0	0.000	0.000	1.361	0.000	0.000		53.1	
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	15.50	14.27	1	26	Left	0	0.445	0.162	1.327	0.591	0.215		16.8	
Body	NR Band n30	10	QPSK	4	7HN2T	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	15.50	14.16	25	0	Left	0	0.464	0.163	1.361	0.632	0.222		16.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.25 NR Band n7 Standalone SAR

Table 10-73 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.47	1	1	Back	0	0.660	0.230	1.239	0.818	0.285		12.3	
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.45	108	108	Back	0	0.641	0.221	1.245	0.798	0.275		12.4	
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.43	216	0	Back	0	0.643	0.224	1.250	0.804	0.280		12.3	
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.47	1	1	Top	0	0.001	0.000	1.239	0.001	0.000		40.5	
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.45	108	108	Top	0	0.000	0.000	1.245	0.000	0.000		50.4	
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.47	1	1	Bottom	0	0.694	0.229	1.239	0.860	0.284		12.0	
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.45	108	108	Bottom	0	0.696	0.227	1.245	0.867	0.283		12.0	11.9
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.43	216	0	Bottom	0	0.679	0.221	1.250	0.849	0.276		12.1	
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	-0.01	2535.00	507000	CP-OFDM	0.0	12.40	11.45	1	1	Bottom	0	0.709	0.232	1.245	0.883	0.289		11.9	
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	-0.13	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.47	1	1	Right	0	0.012	0.002	1.239	0.015	0.002		29.7	
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.45	108	108	Right	0	0.011	0.003	1.245	0.014	0.004		30.0	
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	-0.17	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.47	1	1	Left	0	0.026	0.009	1.239	0.032	0.011		26.3	
Body	NR Band n7	40	QPSK	1b	Q917Y	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.45	108	108	Left	0	0.027	0.010	1.245	0.034	0.012		26.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-74 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	2	5002Q	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	12.30	11.14	1	1	Back	0	0.691	0.242	1.306	0.902	0.316		11.7	
Body	NR Band n7	40	QPSK	2	5002Q	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	12.30	11.23	108	0	Back	0	0.666	0.235	1.279	0.852	0.301		12.0	
Body	NR Band n7	40	QPSK	2	5002Q	1:1	-0.07	2535.00	507000	DFT-s-OFDM	0.0	12.30	11.13	216	0	Back	0	0.623	0.228	1.309	0.816	0.298		12.2	
Body	NR Band n7	40	QPSK	2	5002Q	1:1	0.03	2535.00	507000	CP-OFDM	0.0	12.30	11.12	1	1	Back	0	0.656	0.234	1.312	0.861	0.307		11.9	
Body	NR Band n7	40	QPSK	2	5002Q	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	12.30	11.14	1	1	Top	0	0.002	0.000	1.306	0.003	0.000		37.1	
Body	NR Band n7	40	QPSK	2	5002Q	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	12.30	11.23	108	0	Top	0	0.002	0.000	1.279	0.003	0.000		37.2	
Body	NR Band n7	40	QPSK	2	5002Q	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	12.30	11.14	1	1	Bottom	0	0.300	0.094	1.306	0.392	0.123		15.3	11.7
Body	NR Band n7	40	QPSK	2	5002Q	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	12.30	11.23	108	0	Bottom	0	0.299	0.092	1.279	0.382	0.118		15.5	
Body	NR Band n7	40	QPSK	2	5002Q	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	12.30	11.14	1	1	Right	0	0.528	0.172	1.306	0.690	0.225		12.9	
Body	NR Band n7	40	QPSK	2	5002Q	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	12.30	11.23	108	0	Right	0	0.522	0.174	1.279	0.668	0.223		13.0	
Body	NR Band n7	40	QPSK	2	5002Q	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	12.30	11.14	1	1	Left	0	0.000	0.000	1.306	0.000	0.000		50.1	
Body	NR Band n7	40	QPSK	2	5002Q	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.30	11.23	108	0	Left	0	0.000	0.000	1.279	0.000	0.000		50.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-75 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.17	1	1	Back	0	0.418	0.154	1.239	0.518	0.191		13.9	11.4
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.16	108	108	Back	0	0.374	0.138	1.242	0.465	0.171		14.4	
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	-0.07	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.17	1	1	Top	0	0.704	0.235	1.239	0.872	0.291		11.7	
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.16	108	108	Top	0	0.671	0.222	1.242	0.833	0.276		11.9	
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.13	216	0	Top	0	0.685	0.227	1.250	0.856	0.284		11.8	
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	0.00	2535.00	507000	CP-OFDM	0.0	12.10	11.07	1	1	Top	0	0.733	0.242	1.268	0.929	0.307		11.4	
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.17	1	1	Bottom	0	0.000	0.000	1.239	0.000	0.000		50.2	
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	0.05	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.16	108	108	Bottom	0	0.000	0.000	1.242	0.000	0.000		50.1	
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.17	1	1	Right	0	0.029	0.011	1.239	0.036	0.014		25.5	
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.16	108	108	Right	0	0.029	0.011	1.242	0.036	0.014		25.5	
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.17	1	1	Left	0	0.016	0.005	1.239	0.020	0.006		28.1	
Body	NR Band n7	40	QPSK	3b	5002Q	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.16	108	108	Left	0	0.017	0.005	1.242	0.021	0.006		27.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-76 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	-0.06	2535.00	507000	DFT-s-OFDM	0.0	11.80	10.91	1	214	Back	0	0.758	0.258	1.227	0.930	0.317		11.1	
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	11.80	10.89	108	108	Back	0	0.779	0.266	1.233	0.961	0.328	A25	11.0	
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	-0.06	2535.00	507000	DFT-s-OFDM	0.0	11.80	10.85	216	0	Back	0	0.772	0.263	1.245	0.961	0.327		11.0	
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	-0.01	2535.00	507000	CP-OFDM	0.0	11.80	10.88	1	1	Back	0	0.765	0.259	1.236	0.946	0.320		11.0	
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	11.80	10.91	1	214	Top	0	0.244	0.084	1.227	0.299	0.103		16.0	
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	11.80	10.89	108	108	Top	0	0.230	0.081	1.233	0.284	0.100		16.3	11.0
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	11.80	10.91	1	214	Bottom	0	0.005	0.001	1.227	0.006	0.001		32.9	
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	11.80	10.89	108	108	Bottom	0	0.004	0.000	1.233	0.005	0.000		33.9	
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	11.80	10.91	1	214	Right	0	0.002	0.000	1.227	0.002	0.000		36.9	
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	0.08	2535.00	507000	DFT-s-OFDM	0.0	11.80	10.89	108	108	Right	0	0.002	0.000	1.233	0.002	0.000		36.9	
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	-0.13	2535.00	507000	DFT-s-OFDM	0.0	11.80	10.91	1	214	Left	0	0.564	0.190	1.227	0.692	0.233		12.4	
Body	NR Band n7	40	QPSK	4	7HN2T	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	11.80	10.89	108	108	Left	0	0.462	0.163	1.233	0.570	0.201		13.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.26 NR Band n41 Standalone SAR

Table 10-77 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.87	1	137	Back	0	0.880	0.312	1.030	0.906	0.321		12.4	
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.96	135	0	Back	0	0.820	0.297	1.009	0.827	0.300		12.8	
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.86	270	0	Back	0	0.910	0.325	1.033	0.940	0.336		12.3	
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.87	1	137	Top	0	0.000	0.000	1.030	0.000	0.000		51.9	
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.96	135	0	Top	0	0.000	0.000	1.009	0.000	0.000		51.9	
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.87	1	137	Bottom	0	0.938	0.317	1.030	0.966	0.327		12.1	
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.96	135	0	Bottom	0	0.922	0.313	1.009	0.930	0.316		12.3	12.1
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.86	270	0	Bottom	0	0.930	0.314	1.033	0.961	0.324		12.2	
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	0.02	2592.99	518598	CP-OFDM	0.0	13.00	12.72	1	1	Bottom	0	0.898	0.306	1.067	0.958	0.327		12.2	
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.87	1	137	Right	0	0.019	0.006	1.030	0.020	0.006		29.1	
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.96	135	0	Right	0	0.017	0.005	1.009	0.017	0.005		29.6	
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.87	1	137	Left	0	0.040	0.016	1.030	0.041	0.016		25.8	
Body	NR Band n41	100	QPSK	1b	Q917Y	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.96	135	0	Left	0	0.033	0.013	1.009	0.033	0.013		26.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-78 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.22	1	137	Back	0	0.708	0.260	1.197	0.847	0.311		12.7	
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.21	135	69	Back	0	0.703	0.260	1.199	0.843	0.312		12.7	
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	0.11	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.13	270	0	Back	0	0.704	0.259	1.222	0.860	0.316		12.6	
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	0.02	2592.99	518598	CP-OFDM	0.0	13.00	12.10	1	1	Back	0	0.805	0.299	1.230	0.990	0.368		12.0	
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	-0.13	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.22	1	137	Top	0	0.014	0.006	1.197	0.017	0.007		29.7	
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.21	135	69	Top	0	0.013	0.005	1.199	0.016	0.006		30.1	
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	-0.12	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.22	1	137	Bottom	0	0.363	0.114	1.197	0.435	0.136		15.6	12.0
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.21	135	69	Bottom	0	0.354	0.111	1.199	0.424	0.133		15.7	
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.22	1	137	Right	0	0.610	0.196	1.197	0.730	0.235		13.3	
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	0.09	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.21	135	69	Right	0	0.620	0.196	1.199	0.743	0.235		13.3	
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.13	270	0	Right	0	0.620	0.197	1.222	0.758	0.241		13.2	
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.22	1	137	Left	0	0.002	0.000	1.197	0.002	0.000		38.2	
Body	NR Band n41	100	QPSK	2	Q7WDG	1:1	0.09	2592.99	518598	DFT-s-OFDM	0.0	13.00	12.21	135	69	Left	0	0.003	0.000	1.199	0.004	0.000		36.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-79 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	3b	05066	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	12.80	12.64	1	137	Back	0	0.516	0.197	1.038	0.536	0.204		14.5	
Body	NR Band n41	100	QPSK	3b	05066	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	12.80	12.65	135	69	Back	0	0.517	0.196	1.035	0.535	0.203		14.5	
Body	NR Band n41	100	QPSK	3b	05066	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	12.80	12.64	1	137	Top	0	0.874	0.300	1.038	0.907	0.311		12.2	
Body	NR Band n41	100	QPSK	3b	05066	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	12.80	12.65	135	69	Top	0	0.894	0.307	1.035	0.925	0.318		12.1	
Body	NR Band n41	100	QPSK	3b	05066	1:1	0.13	2592.99	518598	DFT-s-OFDM	0.0	12.80	12.63	270	0	Top	0	0.900	0.308	1.040	0.936	0.320		12.1	
Body	NR Band n41	100	QPSK	3b	05066	1:1	0.10	2592.99	518598	CP-OFDM	0.0	12.80	12.75	1	1	Top	0	0.979	0.326	1.012	0.991	0.330	A26	11.8	
Body	NR Band n41	100	QPSK	3b	05066	1:1	-0.03	2592.99	518598	CP-OFDM	0.0	12.80	12.75	1	1	Top	0	0.971	0.338	1.012	0.983	0.342		11.9	11.8
Body	NR Band n41	100	QPSK	3b	05066	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	12.80	12.64	1	137	Bottom	0	0.000	0.000	1.038	0.000	0.000		51.6	
Body	NR Band n41	100	QPSK	3b	05066	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	12.80	12.65	135	69	Bottom	0	0.000	0.000	1.035	0.000	0.000		51.6	
Body	NR Band n41	100	QPSK	3b	05066	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	12.80	12.64	1	137	Right	0	0.030	0.013	1.038	0.031	0.013		26.8	
Body	NR Band n41	100	QPSK	3b	05066	1:1	0.11	2592.99	518598	DFT-s-OFDM	0.0	12.80	12.65	135	69	Right	0	0.033	0.014	1.035	0.034	0.014		26.4	
Body	NR Band n41	100	QPSK	3b	05066	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	12.80	12.64	1	137	Left	0	0.018	0.006	1.038	0.019	0.006		29.1	
Body	NR Band n41	100	QPSK	3b	05066	1:1	-0.08	2592.99	518598	DFT-s-OFDM	0.0	12.80	12.65	135	69	Left	0	0.015	0.005	1.035	0.016	0.005		29.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-80 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	4	64JK4	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.62	1	137	Back	0	0.769	0.270	1.225	0.942	0.331		10.7	
Body	NR Band n41	100	QPSK	4	64JK4	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.58	135	0	Back	0	0.762	0.268	1.236	0.942	0.331		10.7	
Body	NR Band n41	100	QPSK	4	64JK4	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.53	270	0	Back	0	0.773	0.271	1.250	0.966	0.339		10.6	
Body	NR Band n41	100	QPSK	4	64JK4	1:1	0.02	2592.99	518598	CP-OFDM	0.0	11.50	10.31	1	1	Back	0	0.753	0.265	1.315	0.990	0.348		10.5	
Body	NR Band n41	100	QPSK	4	64JK4	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.62	1	137	Top	0	0.198	0.068	1.225	0.243	0.083		16.6	
Body	NR Band n41	100	QPSK	4	64JK4	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.58	135	0	Top	0	0.222	0.075	1.236	0.274	0.093		16.1	
Body	NR Band n41	100	QPSK	4	64JK4	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.62	1	137	Bottom	0	0.003	0.001	1.225	0.004	0.001		34.8	10.5
Body	NR Band n41	100	QPSK	4	64JK4	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.58	135	0	Bottom	0	0.003	0.001	1.236	0.004	0.001		34.8	
Body	NR Band n41	100	QPSK	4	64JK4	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.62	1	137	Right	0	0.000	0.000	1.225	0.000	0.000		49.6	
Body	NR Band n41	100	QPSK	4	64JK4	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.58	135	0	Right	0	0.000	0.000	1.236	0.000	0.000		49.6	
Body	NR Band n41	100	QPSK	4	64JK4	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.62	1	137	Left	0	0.614	0.203	1.225	0.752	0.249		11.7	
Body	NR Band n41	100	QPSK	4	64JK4	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.58	135	0	Left	0	0.603	0.203	1.236	0.745	0.251		11.8	
Body	NR Band n41	100	QPSK	4	64JK4	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	11.50	10.53	270	0	Left	0	0.620	0.206	1.250	0.775	0.258		11.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.27 NR Band n48 Standalone SAR

Table 10-81 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	0.20	3570.00	638000	DFT-s-OFDM	0.0	10.70	10.00	1	104	Back	0	0.475	0.146	1.175	0.558	0.172		12.2	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	0.05	3624.99	641666	DFT-s-OFDM	0.0	10.70	9.93	1	1	Back	0	0.445	0.140	1.194	0.531	0.167		12.4	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	-0.19	3679.98	645332	DFT-s-OFDM	0.0	10.70	9.74	1	1	Back	0	0.537	0.163	1.247	0.670	0.203		11.4	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	10.70	9.96	50	56	Back	0	0.426	0.133	1.186	0.505	0.158		12.6	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	-0.16	3624.99	641666	DFT-s-OFDM	0.0	10.70	9.81	50	0	Back	0	0.711	0.199	1.227	0.872	0.244		10.3	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	-0.10	3679.98	645332	DFT-s-OFDM	0.0	10.70	9.70	50	0	Back	0	0.548	0.164	1.259	0.690	0.206		11.3	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	10.70	9.93	100	0	Back	0	0.513	0.155	1.194	0.613	0.185		11.8	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	10.70	10.00	1	104	Top	0	0.004	0.001	1.175	0.005	0.001		33.0	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	10.70	9.96	50	56	Top	0	0.002	0.000	1.186	0.002	0.000		35.9	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	10.70	10.00	1	104	Bottom	0	0.211	0.058	1.175	0.248	0.068		15.7	9.9
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	-0.06	3570.00	638000	DFT-s-OFDM	0.0	10.70	9.96	50	56	Bottom	0	0.217	0.059	1.186	0.257	0.070		15.6	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	0.06	3570.00	638000	DFT-s-OFDM	0.0	10.70	10.00	1	104	Right	0	0.000	0.000	1.175	0.000	0.000		49.0	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	10.70	9.96	50	56	Right	0	0.000	0.000	1.186	0.000	0.000		48.9	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	10.70	10.00	1	104	Left	0	0.796	0.208	1.175	0.935	0.244		10.0	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	10.70	9.93	1	1	Left	0	0.772	0.203	1.194	0.922	0.242		10.0	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	-0.06	3679.98	645332	DFT-s-OFDM	0.0	10.70	9.74	1	1	Left	0	0.723	0.188	1.247	0.902	0.234		10.1	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	-0.05	3570.00	638000	DFT-s-OFDM	0.0	10.70	9.96	50	56	Left	0	0.760	0.200	1.186	0.901	0.237		10.1	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	-0.06	3624.99	641666	DFT-s-OFDM	0.0	10.70	9.81	50	0	Left	0	0.767	0.200	1.227	0.941	0.245		9.9	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	-0.04	3570.00	638000	DFT-s-OFDM	0.0	10.70	9.93	100	0	Left	0	0.719	0.191	1.194	0.858	0.228		10.3	
Body	NR Band n48	40	QPSK	1a	Q2P2R	1:1	0.00	3679.98	645332	CP-OFDM	0.0	10.70	9.82	1	1	Left	0	0.721	0.187	1.225	0.883	0.229		10.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-82 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	2	5066	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	10.90	9.92	1	104	Back	0	0.465	0.161	1.253	0.583	0.202		12.2	
Body	NR Band n48	40	QPSK	2	5066	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	10.90	10.18	1	104	Back	0	0.552	0.192	1.180	0.651	0.227		11.7	
Body	NR Band n48	40	QPSK	2	5066	1:1	0.02	3679.98	645332	DFT-s-OFDM	0.0	10.90	9.88	1	53	Back	0	0.549	0.194	1.265	0.694	0.245		11.5	
Body	NR Band n48	40	QPSK	2	5066	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	10.90	9.81	50	56	Back	0	0.461	0.159	1.285	0.592	0.204		12.2	
Body	NR Band n48	40	QPSK	2	5066	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	10.90	9.90	50	0	Back	0	0.504	0.174	1.259	0.635	0.219		11.9	
Body	NR Band n48	40	QPSK	2	5066	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	10.90	9.84	50	0	Back	0	0.557	0.194	1.276	0.711	0.248		11.4	
Body	NR Band n48	40	QPSK	2	5066	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	10.90	9.85	100	0	Back	0	0.534	0.180	1.274	0.680	0.229		11.6	
Body	NR Band n48	40	QPSK	2	5066	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	10.90	10.18	1	104	Top	0	0.007	0.002	1.180	0.008	0.002		30.7	
Body	NR Band n48	40	QPSK	2	5066	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	10.90	9.90	50	0	Top	0	0.007	0.002	1.259	0.009	0.003		30.4	
Body	NR Band n48	40	QPSK	2	5066	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	10.90	10.18	1	104	Bottom	0	0.133	0.040	1.180	0.157	0.047		17.9	
Body	NR Band n48	40	QPSK	2	5066	1:1	-0.08	3624.99	641666	DFT-s-OFDM	0.0	10.90	9.90	50	0	Bottom	0	0.120	0.038	1.259	0.151	0.048		18.1	9.9
Body	NR Band n48	40	QPSK	2	5066	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	10.90	9.92	1	104	Right	0	0.754	0.213	1.253	0.945	0.267		10.1	
Body	NR Band n48	40	QPSK	2	5066	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	10.90	10.18	1	104	Right	0	0.794	0.220	1.180	0.937	0.260		10.2	
Body	NR Band n48	40	QPSK	2	5066	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	10.90	9.88	1	53	Right	0	0.762	0.210	1.265	0.964	0.266		10.0	
Body	NR Band n48	40	QPSK	2	5066	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	10.90	9.81	50	56	Right	0	0.733	0.208	1.285	0.942	0.267		10.1	
Body	NR Band n48	40	QPSK	2	5066	1:1	-0.11	3624.99	641666	DFT-s-OFDM	0.0	10.90	9.90	50	0	Right	0	0.769	0.213	1.259	0.968	0.268		10.0	
Body	NR Band n48	40	QPSK	2	5066	1:1	-0.02	3679.98	645332	DFT-s-OFDM	0.0	10.90	9.84	50	0	Right	0	0.774	0.217	1.276	0.988	0.277		9.9	
Body	NR Band n48	40	QPSK	2	5066	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	10.90	9.85	100	0	Right	0	0.777	0.215	1.274	0.990	0.274		9.9	
Body	NR Band n48	40	QPSK	2	5066	1:1	-0.02	3624.99	641666	CP-OFDM	0.0	10.90	9.84	1	1	Right	0	0.777	0.217	1.276	0.991	0.277		9.9	
Body	NR Band n48	40	QPSK	2	5066	1:1	0.04	3624.99	641666	DFT-s-OFDM	0.0	10.90	10.18	1	104	Left	0	0.002	0.000	1.180	0.002	0.000		36.2	
Body	NR Band n48	40	QPSK	2	5066	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	10.90	9.90	50	0	Left	0	0.000	0.000	1.259	0.000	0.000		48.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-83 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	-0.07	3570.00	638000	DFT-s-OFDM	0.0	10.00	9.14	1	104	Back	0	0.329	0.103	1.219	0.401	0.126		12.9	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	10.00	9.07	50	0	Back	0	0.325	0.100	1.239	0.403	0.124		12.9	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	10.00	9.14	1	104	Top	0	0.208	0.059	1.219	0.254	0.072		14.9	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	-0.05	3570.00	638000	DFT-s-OFDM	0.0	10.00	9.07	50	0	Top	0	0.216	0.059	1.239	0.268	0.073		14.7	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	10.00	9.14	1	104	Bottom	0	0.003	0.000	1.219	0.004	0.000		33.3	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.09	3570.00	638000	DFT-s-OFDM	0.0	10.00	9.07	50	0	Bottom	0	0.005	0.000	1.239	0.006	0.000		31.1	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	10.00	9.14	1	104	Right	0	0.695	0.192	1.219	0.847	0.234		9.7	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.04	3624.99	641666	DFT-s-OFDM	0.0	10.00	8.95	1	1	Right	0	0.681	0.186	1.274	0.868	0.237		9.6	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	10.00	8.67	1	104	Right	0	0.729	0.195	1.358	0.990	0.265		9.0	9.0
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	10.00	9.07	50	0	Right	0	0.669	0.182	1.239	0.829	0.225		9.8	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.09	3624.99	641666	DFT-s-OFDM	0.0	10.00	8.82	50	0	Right	0	0.692	0.187	1.312	0.908	0.245		9.4	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.04	3679.98	645332	DFT-s-OFDM	0.0	10.00	8.64	50	0	Right	0	0.722	0.193	1.368	0.988	0.264		9.0	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	10.00	9.05	100	0	Right	0	0.682	0.187	1.245	0.849	0.233		9.7	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.01	3570.00	638000	CP-OFDM	0.0	10.00	9.15	1	1	Right	0	0.730	0.197	1.216	0.888	0.240		9.5	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	10.00	9.14	1	104	Left	0	0.000	0.000	1.219	0.000	0.000		48.1	
Body	NR Band n48	40	QPSK	3a	Q917Y	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	10.00	9.07	50	0	Left	0	0.000	0.000	1.239	0.000	0.000		48.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-84 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.12	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.35	1	104	Back	0	0.851	0.272	1.161	0.988	0.316	A27	10.0	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.04	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.35	1	104	Back	0	0.842	0.268	1.161	0.978	0.311		10.1	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	11.00	10.16	1	1	Back	0	0.816	0.258	1.213	0.990	0.313		10.0	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.11	3679.98	645332	DFT-s-OFDM	0.0	11.00	10.10	1	1	Back	0	0.807	0.265	1.230	0.993	0.326		10.0	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.05	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.20	50	0	Back	0	0.788	0.252	1.202	0.947	0.303		10.2	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.07	3624.99	641666	DFT-s-OFDM	0.0	11.00	10.08	50	0	Back	0	0.717	0.234	1.236	0.886	0.289		10.5	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	11.00	9.88	50	0	Back	0	0.760	0.247	1.294	0.983	0.320		10.1	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.09	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.11	100	0	Back	0	0.773	0.251	1.227	0.948	0.308		10.2	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.09	3570.00	638000	CP-OFDM	0.0	11.00	10.44	1	1	Back	0	0.789	0.254	1.138	0.898	0.289		10.5	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.14	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.35	1	104	Top	0	0.227	0.065	1.161	0.264	0.075		15.8	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.05	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.20	50	0	Top	0	0.234	0.068	1.202	0.281	0.082		15.5	10.0
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	0.09	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.35	1	104	Bottom	0	0.003	0.000	1.161	0.003	0.000		34.6	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.20	50	0	Bottom	0	0.003	0.000	1.202	0.004	0.000		34.4	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.35	1	104	Right	0	0.000	0.000	1.161	0.000	0.000		49.3	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.20	50	0	Right	0	0.000	0.000	1.202	0.000	0.000		49.2	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.35	1	104	Left	0	0.712	0.190	1.161	0.827	0.221		10.8	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	11.00	10.16	1	1	Left	0	0.708	0.188	1.213	0.859	0.228		10.6	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.11	3679.98	645332	DFT-s-OFDM	0.0	11.00	10.10	1	1	Left	0	0.710	0.186	1.230	0.873	0.229		10.6	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.20	50	0	Left	0	0.651	0.174	1.202	0.783	0.209		11.0	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.17	3624.99	641666	DFT-s-OFDM	0.0	11.00	10.08	50	0	Left	0	0.683	0.181	1.236	0.844	0.224		10.7	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.11	3679.98	645332	DFT-s-OFDM	0.0	11.00	9.88	50	0	Left	0	0.684	0.181	1.294	0.885	0.234		10.5	
Body	NR Band n48	40	QPSK	4	LH4LL	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.11	100	0	Left	0	0.661	0.177	1.227	0.811	0.217		10.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

10.1 NR Band n77 DoD Standalone SAR

Table 10-85 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.19	1	137	Back	0	0.552	0.157	1.002	0.553	0.157		11.8	
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	0.11	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.16	135	0	Back	0	0.601	0.171	1.009	0.606	0.173		11.4	
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	0.14	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.13	270	0	Back	0	0.519	0.156	1.016	0.527	0.158		12.0	
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	-0.02	3500.01	633334	CP-OFDM	0.0	10.20	9.97	1	1	Back	0	0.528	0.160	1.054	0.557	0.169		11.7	
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.19	1	137	Top	0	0.002	0.000	1.002	0.002	0.000		36.2	
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	0.08	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.16	135	0	Top	0	0.003	0.000	1.009	0.003	0.000		34.4	
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.19	1	137	Bottom	0	0.106	0.031	1.002	0.106	0.031		18.9	11.4
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	-0.08	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.16	135	0	Bottom	0	0.180	0.048	1.009	0.182	0.048		16.6	
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.19	1	137	Right	0	0.000	0.000	1.002	0.000	0.000		49.2	
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.16	135	0	Right	0	0.001	0.000	1.009	0.001	0.000		39.1	
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.19	1	137	Left	0	0.561	0.151	1.002	0.562	0.151		11.7	
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.16	135	0	Left	0	0.562	0.151	1.009	0.567	0.152		11.6	
Body	NR Band n77 DoD	100	QPSK	1a	6M27R	1:1	-0.04	3500.01	633334	DFT-s-OFDM	0.0	10.20	10.13	270	0	Left	0	0.585	0.157	1.016	0.594	0.160		11.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-86 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.53	1	137	Back	0	0.533	0.171	1.114	0.594	0.190		11.2	
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	-0.11	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.55	135	138	Back	0	0.464	0.158	1.109	0.515	0.175		11.9	
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.43	270	0	Back	0	0.549	0.174	1.140	0.626	0.198		11.0	
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.53	1	137	Top	0	0.000	0.000	1.114	0.000	0.000		48.5	
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	0.04	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.55	135	138	Top	0	0.004	0.000	1.109	0.004	0.000		32.5	
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	-0.12	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.53	1	137	Bottom	0	0.143	0.044	1.114	0.159	0.049		17.0	
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	-0.13	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.55	135	138	Bottom	0	0.143	0.041	1.109	0.159	0.045		17.0	9.3
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	-0.20	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.53	1	137	Right	0	0.830	0.231	1.114	0.925	0.257		9.3	
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	-0.20	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.55	135	138	Right	0	0.846	0.232	1.109	0.938	0.257	A28	9.3	
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.43	270	0	Right	0	0.799	0.225	1.140	0.911	0.257		9.4	
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	-0.14	3500.01	633334	CP-OFDM	0.0	10.00	9.35	1	1	Right	0	0.766	0.211	1.161	0.889	0.245		9.5	
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.53	1	137	Left	0	0.000	0.000	1.114	0.000	0.000		48.5	
Body	NR Band n77 DoD	100	QPSK	2	57NMW	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	10.00	9.55	135	138	Left	0	0.000	0.000	1.109	0.000	0.000		48.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-87 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	9.40	9.05	1	1	Back	0	0.319	0.103	1.084	0.346	0.112		13.0	
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	-0.05	3500.01	633334	DFT-s-OFDM	0.0	9.40	9.12	135	138	Back	0	0.289	0.091	1.067	0.308	0.097		13.5	
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	9.40	9.05	1	1	Top	0	0.200	0.054	1.084	0.217	0.059		15.0	
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	-0.04	3500.01	633334	DFT-s-OFDM	0.0	9.40	9.12	135	138	Top	0	0.177	0.049	1.067	0.189	0.052		15.6	
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	0.04	3500.01	633334	DFT-s-OFDM	0.0	9.40	9.05	1	1	Bottom	0	0.000	0.000	1.084	0.000	0.000		48.0	
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	9.40	9.12	135	138	Bottom	0	0.000	0.000	1.067	0.000	0.000		48.1	10.1
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	9.40	9.05	1	1	Right	0	0.515	0.155	1.084	0.558	0.168		10.9	
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	9.40	9.12	135	138	Right	0	0.549	0.160	1.067	0.586	0.171		10.7	
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	9.40	8.99	270	0	Right	0	0.552	0.162	1.099	0.607	0.178		10.6	
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	0.03	3500.01	633334	CP-OFDM	0.0	9.40	8.94	1	1	Right	0	0.603	0.173	1.112	0.671	0.192		10.1	
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	9.40	9.05	1	1	Left	0	0.000	0.000	1.084	0.000	0.000		48.0	
Body	NR Band n77 DoD	100	QPSK	3a	64JK4	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	9.40	9.12	135	138	Left	0	0.000	0.000	1.067	0.000	0.000		48.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-88 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.25	1	271	Back	0	0.463	0.160	1.084	0.502	0.173		12.6	
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.26	135	0	Back	0	0.529	0.183	1.081	0.572	0.198		12.0	
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.23	270	0	Back	0	0.531	0.183	1.089	0.578	0.199		12.0	
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	0.05	3500.01	633334	CP-OFDM	0.0	10.60	10.07	1	1	Back	0	0.645	0.216	1.130	0.729	0.244		11.0	
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	0.04	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.25	1	271	Top	0	0.217	0.064	1.084	0.235	0.069		15.9	
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	-0.08	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.26	135	0	Top	0	0.298	0.093	1.081	0.322	0.101		14.5	
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.25	1	271	Bottom	0	0.003	0.000	1.084	0.003	0.000		34.5	11.0
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.26	135	0	Bottom	0	0.006	0.002	1.081	0.006	0.002		31.5	
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.25	1	271	Right	0	0.001	0.000	1.084	0.001	0.000		39.2	
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	0.08	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.26	135	0	Right	0	0.000	0.000	1.081	0.000	0.000		49.2	
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.25	1	271	Left	0	0.493	0.140	1.084	0.534	0.152		12.3	
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	-0.14	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.26	135	0	Left	0	0.499	0.147	1.081	0.539	0.159		12.3	
Body	NR Band n77 DoD	100	QPSK	4	D66XV	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.23	270	0	Left	0	0.418	0.118	1.089	0.455	0.129		13.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.2 NR Band n77 Standalone SAR

Table 10-89 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.15	1	137	Back	0	0.701	0.194	1.012	0.709	0.196		10.7	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	10.20	10.06	1	1	Back	0	0.917	0.240	1.033	0.947	0.248		9.4	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.13	135	69	Back	0	0.743	0.199	1.016	0.755	0.202		10.4	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.06	3930.00	662000	DFT-s-OFDM	0.0	10.20	10.11	135	0	Back	0	0.968	0.252	1.021	0.988	0.257	A29	9.2	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	10.20	10.11	135	0	Back	0	0.860	0.238	1.021	0.878	0.243		9.7	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	-0.15	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.07	270	0	Back	0	0.739	0.200	1.030	0.761	0.206		10.4	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.13	3930.00	662000	CP-OFDM	0.0	10.20	10.13	1	1	Back	0	0.858	0.232	1.016	0.872	0.236		9.8	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.15	1	137	Top	0	0.005	0.000	1.012	0.005	0.000		32.1	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.13	135	69	Top	0	0.007	0.001	1.016	0.007	0.001		30.7	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	-0.13	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.15	1	137	Bottom	0	0.180	0.051	1.012	0.182	0.052		16.6	9.2
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	-0.08	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.13	135	69	Bottom	0	0.189	0.053	1.016	0.192	0.054		16.3	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.15	1	137	Right	0	0.000	0.000	1.012	0.000	0.000		49.1	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.13	135	69	Right	0	0.000	0.000	1.016	0.000	0.000		49.1	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.15	1	137	Left	0	0.708	0.182	1.012	0.716	0.184		10.6	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	10.20	10.06	1	1	Left	0	0.800	0.202	1.033	0.826	0.209		10.0	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.13	135	69	Left	0	0.715	0.185	1.016	0.726	0.188		10.6	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	-0.18	3930.00	662000	DFT-s-OFDM	0.0	10.20	10.11	135	0	Left	0	0.766	0.192	1.021	0.782	0.196		10.2	
Body	NR Band n77	100	QPSK	1a	6M27R	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	10.20	10.07	270	0	Left	0	0.654	0.168	1.030	0.674	0.173		10.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-90 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	2	57NMW	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	9.30	9.26	1	1	Back	0	0.759	0.263	1.009	0.766	0.265		9.4	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	9.30	9.29	1	1	Back	0	0.494	0.171	1.002	0.495	0.171		11.3	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	-0.08	3750.00	650000	DFT-s-OFDM	0.0	9.30	9.27	135	0	Back	0	0.593	0.210	1.007	0.597	0.211		10.5	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	-0.15	3930.00	662000	DFT-s-OFDM	0.0	9.30	9.30	135	0	Back	0	0.388	0.140	1.000	0.388	0.140		12.4	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	9.30	9.28	270	0	Back	0	0.472	0.167	1.005	0.474	0.168		11.5	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	9.30	9.29	1	1	Top	0	0.007	0.002	1.002	0.007	0.002		29.8	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	9.30	9.30	135	0	Top	0	0.004	0.000	1.000	0.004	0.000		32.3	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	9.30	9.29	1	1	Bottom	0	0.216	0.088	1.002	0.216	0.088		14.9	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	0.08	3930.00	662000	DFT-s-OFDM	0.0	9.30	9.30	135	0	Bottom	0	0.216	0.087	1.000	0.216	0.087		14.9	9.1
Body	NR Band n77	100	QPSK	2	57NMW	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	9.30	9.26	1	1	Right	0	0.807	0.214	1.009	0.814	0.216		9.2	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	9.30	9.29	1	1	Right	0	0.660	0.169	1.002	0.661	0.169		10.1	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	9.30	9.27	135	0	Right	0	0.775	0.204	1.007	0.780	0.205		9.4	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	-0.12	3930.00	662000	DFT-s-OFDM	0.0	9.30	9.30	135	0	Right	0	0.607	0.154	1.000	0.607	0.154		10.4	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	-0.18	3750.00	650000	DFT-s-OFDM	0.0	9.30	9.28	270	0	Right	0	0.769	0.207	1.005	0.773	0.208		9.4	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	-0.17	3750.00	650000	CP-OFDM	0.0	9.30	9.21	1	1	Right	0	0.813	0.214	1.021	0.830	0.218		9.1	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	9.30	9.29	1	1	Left	0	0.000	0.000	1.002	0.000	0.000		48.3	
Body	NR Band n77	100	QPSK	2	57NMW	1:1	0.09	3930.00	662000	DFT-s-OFDM	0.0	9.30	9.30	135	0	Left	0	0.005	0.002	1.000	0.005	0.002		31.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-91 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.93	1	1	Back	0	0.349	0.107	1.114	0.389	0.119		12.5	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	-0.04	3930.00	662000	DFT-s-OFDM	0.0	9.40	8.88	1	1	Back	0	0.416	0.125	1.127	0.469	0.141		11.7	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.95	135	0	Back	0	0.343	0.105	1.109	0.380	0.116		12.6	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	9.40	8.78	135	0	Back	0	0.414	0.124	1.153	0.477	0.143		11.6	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.88	270	0	Back	0	0.344	0.106	1.127	0.388	0.119		12.5	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.93	1	1	Top	0	0.203	0.056	1.114	0.226	0.062		14.8	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	-0.07	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.95	135	0	Top	0	0.190	0.051	1.109	0.211	0.057		15.1	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.93	1	1	Bottom	0	0.003	0.000	1.114	0.003	0.000		33.1	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.95	135	0	Bottom	0	0.000	0.000	1.109	0.000	0.000		47.9	8.7
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.93	1	1	Right	0	0.749	0.206	1.114	0.834	0.229		9.2	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	9.40	8.88	1	1	Right	0	0.810	0.218	1.127	0.913	0.246		8.8	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.95	135	0	Right	0	0.778	0.215	1.109	0.863	0.238		9.0	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	9.40	8.78	135	0	Right	0	0.804	0.216	1.153	0.927	0.249		8.7	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.88	270	0	Right	0	0.809	0.223	1.127	0.912	0.251		8.8	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	0.05	3750.00	650000	CP-OFDM	0.0	9.40	8.95	1	1	Right	0	0.752	0.208	1.109	0.834	0.231		9.2	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.93	1	1	Left	0	0.000	0.000	1.114	0.000	0.000		47.9	
Body	NR Band n77	100	QPSK	3a	TJND4	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	9.40	8.95	135	0	Left	0	0.000	0.000	1.109	0.000	0.000		47.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-92 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.11	3750.00	650000	DFT-s-OFDM	0.0	10.6	9.98	1	137	Back	0	0.507	0.153	1.153	0.585	0.176		11.9	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.02	1	137	Back	0	0.590	0.177	1.143	0.674	0.202		11.3	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	10.6	10.02	135	69	Back	0	0.514	0.151	1.143	0.588	0.173		11.9	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.07	135	69	Back	0	0.578	0.175	1.130	0.653	0.198		11.4	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.00	270	0	Back	0	0.622	0.182	1.148	0.714	0.209		11.0	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.02	1	137	Top	0	0.110	0.030	1.143	0.126	0.034		18.6	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	-0.07	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.07	135	69	Top	0	0.124	0.034	1.130	0.140	0.038		18.1	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.02	1	137	Bottom	0	0.004	0.000	1.143	0.005	0.000		33.0	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.07	135	69	Bottom	0	0.004	0.000	1.130	0.005	0.000		33.0	10.3
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.02	1	137	Right	0	0.001	0.000	1.143	0.001	0.000		39.0	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.07	135	69	Right	0	0.000	0.000	1.130	0.000	0.000		49.1	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	10.6	9.98	1	137	Left	0	0.474	0.124	1.153	0.547	0.143		12.2	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.02	1	137	Left	0	0.736	0.190	1.143	0.841	0.217		10.3	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.11	3750.00	650000	DFT-s-OFDM	0.0	10.6	10.02	135	69	Left	0	0.493	0.129	1.143	0.563	0.147		12.1	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.07	135	69	Left	0	0.731	0.188	1.130	0.826	0.212		10.4	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.15	3930.00	662000	DFT-s-OFDM	0.0	10.6	10.00	270	0	Left	0	0.736	0.190	1.148	0.845	0.218		10.3	
Body	NR Band n77	100	QPSK	4	GGXKH	1:1	0.06	3930.00	662000	CP-OFDM	0.0	10.6	10.04	1	1	Left	0	0.705	0.181	1.138	0.802	0.206		10.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

10.3 2.4 GHz WIFI SISO Standalone SAR

Table 10-93 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	Q7WDG	99.4	-0.20	2412.00	1	1	11.00	10.34	Back	0	V1	0.280	0.125	1.164	1.006	0.328	0.146	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	Q7WDG	99.4	0.13	2412.00	1	1	11.00	10.34	Top	0	V1	0.249	0.078	1.164	1.006	0.292	0.091	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	Q7WDG	99.4	0.08	2412.00	1	1	11.00	10.34	Bottom	0	V1	0.008	0.002	1.164	1.006	0.009	0.002	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	Q7WDG	99.4	0.06	2412.00	1	1	11.00	10.34	Right	0	V1	0.834	0.300	1.164	1.006	0.977	0.351	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	Q7WDG	99.4	-0.03	2437.00	6	1	11.00	10.27	Right	0	V1	0.902	0.316	1.183	1.006	1.073	0.376	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	GGXKH	99.4	0.11	2437.00	6	1	11.00	10.26	Right	0	V2	0.882	0.310	1.186	1.006	1.052	0.370	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	Q7WDG	99.4	0.07	2462.00	11	1	11.00	10.24	Right	0	V1	0.852	0.301	1.191	1.006	1.021	0.361	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	Q7WDG	99.4	0.08	2412.00	1	1	11.00	10.34	Left	0	V1	0.000	0.000	1.164	1.006	0.000	0.000	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	Q7WDG	99.4	-0.01	2412.00	1	1	5.00	4.15	Back	0	V1	0.065	0.028	1.216	1.006	0.080	0.034	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	Q7WDG	99.4	-0.01	2412.00	1	1	5.00	4.15	Top	0	V1	0.056	0.016	1.216	1.006	0.069	0.020	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	Q7WDG	99.4	-0.01	2412.00	1	1	5.00	4.15	Right	0	V1	0.185	0.066	1.216	1.006	0.226	0.081	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-94 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	-0.01	2412	1	1	11.75	11.02	Back	0	V1	0.913	0.338	1.183	1.006	1.087	0.402	A30
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	5002Q	99.4	-0.06	2412	1	1	11.75	10.83	Back	0	V2	0.871	0.324	1.236	1.006	1.083	0.403	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	0.02	2437	6	1	11.75	10.85	Back	0	V1	0.846	0.314	1.230	1.006	1.047	0.389	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	0.01	2462	11	1	11.75	11.10	Back	0	V1	0.818	0.302	1.161	1.006	0.955	0.353	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	0.04	2462	11	1	11.75	11.10	Top	0	V1	0.010	0.003	1.161	1.006	0.012	0.004	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	-0.02	2462	11	1	11.75	11.10	Bottom	0	V1	0.275	0.084	1.161	1.006	0.321	0.098	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	0.03	2462	11	1	11.75	11.10	Right	0	V1	0.000	0.000	1.161	1.006	0.000	0.000	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	-0.03	2412	1	1	11.75	11.02	Left	0	V1	0.800	0.279	1.183	1.006	0.952	0.332	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	0.00	2437	6	1	11.75	10.85	Left	0	V1	0.807	0.280	1.230	1.006	0.999	0.346	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	0.00	2462	11	1	11.75	11.10	Left	0	V1	0.848	0.293	1.161	1.006	0.990	0.342	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	0.00	2412	1	1	5.75	4.83	Back	0	V1	0.267	0.091	1.236	1.006	0.332	0.113	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	0.05	2412	1	1	5.75	4.83	Bottom	0	V1	0.069	0.020	1.236	1.006	0.086	0.025	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	122JP	99.4	0.01	2412	1	1	5.75	4.83	Left	0	V1	0.196	0.065	1.236	1.006	0.244	0.081	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.4 5 GHz WIFI SISO Standalone SAR

Table 10-95 UNII-2A Antenna 5T

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	5T	DW7WF	97.7	0.03	5270	54	U-NII-2A	13.5	16.75	15.87	Back	0	V2	0.063	0.023	1.225	1.023	0.079	0.029	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	5T	DW7WF	97.7	0.05	5270	54	U-NII-2A	13.5	16.75	15.87	Top	0	V2	0.003	0.000	1.225	1.023	0.004	0.000	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	5T	DW7WF	97.7	0.07	5270	54	U-NII-2A	13.5	16.75	15.87	Bottom	0	V2	0.000	0.000	1.225	1.023	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	5T	DW7WF	97.7	0.02	5270	54	U-NII-2A	13.5	16.75	15.87	Right	0	V2	0.765	0.203	1.225	1.023	0.959	0.254	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	5T	6M27R	97.7	0.04	5270	54	U-NII-2A	13.5	16.75	15.85	Right	0	V1	0.633	0.166	1.230	1.023	0.796	0.209	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	5T	DW7WF	97.7	0.05	5310	62	U-NII-2A	13.5	16.50	15.49	Right	0	V2	0.656	0.180	1.262	1.023	0.847	0.232	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	5T	DW7WF	97.7	0.01	5270	54	U-NII-2A	13.5	16.75	15.87	Left	0	V2	0.004	0.000	1.225	1.023	0.005	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	DW7WF	95.0	0.07	5290	58	U-NII-2A	29.3	10.75	9.81	Right	0	V2	0.151	0.031	1.242	1.052	0.197	0.041	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-96 UNII-2C Antenna 5T

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	-0.16	5530	106	U-NII-2C	29.3	15.50	15.19	Back	0	V1	0.059	0.021	1.074	1.052	0.067	0.024	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	0.02	5530	106	U-NII-2C	29.3	15.50	15.19	Top	0	V1	0.000	0.000	1.074	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	0.08	5530	106	U-NII-2C	29.3	15.50	15.19	Bottom	0	V1	0.000	0.000	1.074	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	0.03	5530	106	U-NII-2C	29.3	15.50	15.19	Right	0	V1	0.864	0.229	1.074	1.052	0.976	0.259	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	DW7WF	95.0	-0.03	5610	122	U-NII-2C	29.3	15.50	14.98	Right	0	V2	0.916	0.250	1.127	1.052	1.086	0.296	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	-0.01	5610	122	U-NII-2C	29.3	15.50	15.13	Right	0	V1	0.944	0.260	1.089	1.052	1.081	0.298	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	0.00	5690	138	U-NII-2C	29.3	15.50	14.57	Right	0	V1	0.772	0.217	1.239	1.052	1.006	0.283	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	0.03	5530	106	U-NII-2C	29.3	15.50	15.19	Left	0	V1	0.000	0.000	1.074	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	DW7WF	95.0	0.10	5690	138	U-NII-2C	29.3	9.50	8.53	Right	0	V2	0.162	0.040	1.250	1.052	0.213	0.053	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-97 UNII-3 Antenna 5T

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	-0.11	5775	155	U-NII-3	29.3	15.25	15.08	Back	0	V1	0.064	0.022	1.040	1.052	0.070	0.024	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	0.01	5775	155	U-NII-3	29.3	15.25	15.08	Top	0	V1	0.001	0.000	1.040	1.052	0.001	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	0.06	5775	155	U-NII-3	29.3	15.25	15.08	Bottom	0	V1	0.000	0.000	1.040	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	-0.09	5775	155	U-NII-3	29.3	15.25	15.08	Right	0	V1	0.942	0.265	1.040	1.052	1.031	0.290	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	DW7WF	95.0	-0.05	5775	155	U-NII-3	29.3	15.25	14.87	Right	0	V2	0.934	0.265	1.091	1.052	1.072	0.304	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	0.08	5775	155	U-NII-3	29.3	15.25	15.08	Right	0	V1	0.932	0.261	1.040	1.052	1.020	0.286	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	7RWQR	95.0	0.07	5775	155	U-NII-3	29.3	15.25	15.08	Left	0	V1	0.012	0.000	1.040	1.052	0.013	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	5T	DW7WF	95.0	-0.12	5775	155	U-NII-3	29.3	9.25	8.32	Right	0	V2	0.175	0.040	1.239	1.052	0.228	0.052	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-98 UNII-2A Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	GTVJDP	95.0	0.06	5290	58	U-NII-2A	29.3	11.00	10.94	Back	0	V1	0.500	0.166	1.014	1.052	0.533	0.177	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	0.02	5290	58	U-NII-2A	29.3	11.00	10.90	Top	0	V2	1.000	0.249	1.023	1.052	1.076	0.268	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	GTVJDP	95.0	0.03	5290	58	U-NII-2A	29.3	11.00	10.94	Top	0	V1	0.976	0.242	1.014	1.052	1.041	0.258	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	-0.03	5290	58	U-NII-2A	29.3	11.00	10.90	Top	0	V2	0.990	0.246	1.023	1.052	1.065	0.265	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	GTVJDP	95.0	0.01	5290	58	U-NII-2A	29.3	11.00	10.94	Bottom	0	V1	0.000	0.000	1.014	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	GTVJDP	95.0	-0.07	5290	58	U-NII-2A	29.3	11.00	10.94	Right	0	V1	0.031	0.006	1.014	1.052	0.033	0.006	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	GTVJDP	95.0	0.08	5290	58	U-NII-2A	29.3	11.00	10.94	Left	0	V1	0.017	0.003	1.014	1.052	0.018	0.003	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	-0.03	5290	58	U-NII-2A	29.3	5.00	4.09	Back	0	V2	0.125	0.039	1.233	1.052	0.162	0.051	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	0.04	5290	58	U-NII-2A	29.3	5.00	4.09	Top	0	V2	0.204	0.046	1.233	1.052	0.265	0.060	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-99 UNII-2C Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	0.01	5610	122	U-NII-2C	29.3	9.50	9.48	Back	0	V2	0.505	0.176	1.005	1.052	0.534	0.186	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	0.05	5530	106	U-NII-2C	29.3	9.50	9.44	Top	0	V2	0.916	0.219	1.014	1.052	0.977	0.234	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	-0.07	5610	122	U-NII-2C	29.3	9.50	9.48	Top	0	V2	0.993	0.240	1.005	1.052	1.050	0.254	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	TVJDP	95.0	-0.17	5610	122	U-NII-2C	29.3	9.50	9.48	Top	0	V1	1.030	0.258	1.005	1.052	1.089	0.273	A31
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	TVJDP	95.0	-0.05	5610	122	U-NII-2C	29.3	9.50	9.48	Top	0	V1	0.995	0.238	1.005	1.052	1.052	0.252	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	0.00	5690	138	U-NII-2C	29.3	9.50	9.36	Top	0	V2	0.888	0.210	1.033	1.052	0.965	0.228	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	0.09	5610	122	U-NII-2C	29.3	9.50	9.48	Bottom	0	V2	0.000	0.000	1.005	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	0.08	5610	122	U-NII-2C	29.3	9.50	9.48	Right	0	V2	0.028	0.004	1.005	1.052	0.030	0.004	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	0.07	5610	122	U-NII-2C	29.3	9.50	9.48	Left	0	V2	0.000	0.000	1.005	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	TVJDP	95.0	-0.01	5610	122	U-NII-2C	29.3	3.50	2.64	Back	0	V1	0.115	0.039	1.219	1.052	0.147	0.050	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	TVJDP	95.0	0.04	5610	122	U-NII-2C	29.3	3.50	2.64	Top	0	V1	0.200	0.045	1.219	1.052	0.256	0.058	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-100 UNII-3 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	TVJDP	95.0	0.07	5775	155	U-NII-3	29.3	10.00	9.64	Back	0	V1	0.452	0.157	1.086	1.052	0.516	0.179	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	07KDXJ	95.0	-0.01	5775	155	U-NII-3	29.3	10.00	9.40	Top	0	V2	0.794	0.190	1.148	1.052	0.959	0.229	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	TVJDP	95.0	-0.07	5775	155	U-NII-3	29.3	10.00	9.64	Top	0	V1	0.841	0.206	1.086	1.052	0.961	0.235	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	TVJDP	95.0	0.02	5775	155	U-NII-3	29.3	10.00	9.64	Bottom	0	V1	0.000	0.000	1.086	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	TVJDP	95.0	0.06	5775	155	U-NII-3	29.3	10.00	9.64	Right	0	V1	0.022	0.003	1.086	1.052	0.025	0.003	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	TVJDP	95.0	0.02	5775	155	U-NII-3	29.3	10.00	9.64	Left	0	V1	0.014	0.000	1.086	1.052	0.016	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	TVJDP	95.0	0.08	5775	155	U-NII-3	29.3	4.00	3.09	Back	0	V1	0.101	0.031	1.233	1.052	0.131	0.040	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3b	TVJDP	95.0	-0.09	5775	155	U-NII-3	29.3	4.00	3.09	Top	0	V1	0.172	0.036	1.233	1.052	0.223	0.047	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-101 UNII-2A Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	7KDXJ	95.0	0.00	5290	58	U-NII-2A	29.3	10.50	10.06	Back	0	V2	0.904	0.260	1.107	1.052	1.053	0.303	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	HN9TJ	95.0	0.07	5290	58	U-NII-2A	29.3	10.50	9.78	Back	0	V1	0.756	0.215	1.180	1.052	0.938	0.267	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	7KDXJ	95.0	0.02	5290	58	U-NII-2A	29.3	10.50	10.06	Top	0	V2	0.000	0.000	1.107	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	7KDXJ	95.0	0.00	5290	58	U-NII-2A	29.3	10.50	10.06	Bottom	0	V2	0.593	0.144	1.107	1.052	0.691	0.168	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	7KDXJ	95.0	0.01	5290	58	U-NII-2A	29.3	10.50	10.06	Right	0	V2	0.005	0.000	1.107	1.052	0.006	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	7KDXJ	95.0	0.02	5290	58	U-NII-2A	29.3	10.50	10.06	Left	0	V2	0.010	0.000	1.107	1.052	0.012	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	7KDXJ	95.0	0.03	5290	58	U-NII-2A	29.3	4.50	3.66	Back	0	V2	0.195	0.056	1.213	1.052	0.249	0.071	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	7KDXJ	95.0	0.10	5290	58	U-NII-2A	29.3	4.50	3.66	Bottom	0	V2	0.186	0.041	1.213	1.052	0.237	0.052	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-102 UNII-2C Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	JL7LC	95.0	-0.01	5530	106	U-NII-2C	29.3	10.00	9.47	Back	0	V2	0.884	0.249	1.130	1.052	1.051	0.296	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	Q917Y	95.0	0.04	5530	106	U-NII-2C	29.3	10.00	9.26	Back	0	V1	0.847	0.243	1.186	1.052	1.057	0.303	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	JL7LC	95.0	0.05	5610	122	U-NII-2C	29.3	10.00	9.96	Back	0	V2	0.811	0.234	1.009	1.052	0.861	0.248	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	JL7LC	95.0	0.20	5690	138	U-NII-2C	29.3	10.00	9.36	Back	0	V2	0.649	0.176	1.159	1.052	0.791	0.215	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	Q917Y	95.0	0.09	5610	122	U-NII-2C	29.3	10.00	9.97	Top	0	V1	0.000	0.000	1.007	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	Q917Y	95.0	0.02	5610	122	U-NII-2C	29.3	10.00	9.97	Bottom	0	V1	0.734	0.177	1.007	1.052	0.778	0.188	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	Q917Y	95.0	0.02	5610	122	U-NII-2C	29.3	10.00	9.97	Right	0	V1	0.011	0.002	1.007	1.052	0.012	0.002	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	Q917Y	95.0	0.06	5610	122	U-NII-2C	29.3	10.00	9.97	Left	0	V1	0.048	0.008	1.007	1.052	0.051	0.008	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	Q917Y	95.0	0.04	5610	122	U-NII-2C	29.3	4.00	3.12	Back	0	V1	0.166	0.045	1.225	1.052	0.214	0.058	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	Q917Y	95.0	0.01	5610	122	U-NII-2C	29.3	4.00	3.12	Bottom	0	V1	0.154	0.033	1.225	1.052	0.198	0.043	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-103 UNII-3 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	JL7LC	95.0	-0.09	5775	155	U-NII-3	29.3	9.75	8.82	Back	0	V2	0.821	0.232	1.239	1.052	1.070	0.302	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	Q917Y	95.0	0.06	5775	155	U-NII-3	29.3	9.75	8.95	Back	0	V1	0.756	0.209	1.202	1.052	0.956	0.264	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	JL7LC	95.0	0.02	5775	155	U-NII-3	29.3	9.75	8.82	Top	0	V2	0.000	0.000	1.239	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	JL7LC	95.0	-0.01	5775	155	U-NII-3	29.3	9.75	8.82	Bottom	0	V2	0.707	0.170	1.239	1.052	0.922	0.222	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	JL7LC	95.0	0.01	5775	155	U-NII-3	29.3	9.75	8.82	Right	0	V2	0.015	0.000	1.239	1.052	0.020	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	JL7LC	95.0	0.04	5775	155	U-NII-3	29.3	9.75	8.82	Left	0	V2	0.013	0.004	1.239	1.052	0.017	0.005	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	JL7LC	95.0	0.09	5775	155	U-NII-3	29.3	3.75	2.61	Back	0	V2	0.176	0.035	1.300	1.052	0.241	0.048	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	JL7LC	95.0	0.10	5775	155	U-NII-3	29.3	3.75	2.61	Bottom	0	V2	0.159	0.028	1.300	1.052	0.217	0.038	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.5 6 GHz WIFI SISO Standalone SAR and APD

Table 10-104 Antenna 5T

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.13	6025	15	68.1	15.00	14.66	Back	0	V2	0.093	0.035	1.081	1.023	0.103	0.039	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.06	6025	15	68.1	15.00	14.66	Top	0	V2	0.002	0.000	1.081	1.023	0.002	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.09	6025	15	68.1	15.00	14.66	Bottom	0	V2	0.000	0.000	1.081	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.00	6025	15	68.1	15.00	14.66	Right	0	V2	0.963	0.278	1.081	1.023	1.065	0.307	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	-0.15	6345	79	68.1	14.00	13.60	Right	0	V2	0.942	0.278	1.096	1.023	1.056	0.312	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	-0.02	6505	111	68.1	12.00	11.89	Right	0	V2	0.695	0.205	1.026	1.023	0.729	0.215	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	-0.09	6665	143	68.1	13.25	13.14	Right	0	V2	0.990	0.301	1.026	1.023	1.039	0.316	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	TVJDP	97.7	-0.02	6985	207	68.1	11.75	11.43	Right	0	V1	0.962	0.304	1.076	1.023	1.059	0.335	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.11	6985	207	68.1	11.75	11.59	Right	0	V2	1.010	0.317	1.038	1.023	1.072	0.337	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.05	6025	15	68.1	15.00	14.66	Left	0	V2	0.024	0.009	1.081	1.023	0.027	0.010	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.03	6025	15	68.1	9.00	8.51	Back	0	V2	0.022	0.010	1.119	1.023	0.025	0.011	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	-0.14	6025	15	68.1	9.00	8.51	Right	0	V2	0.166	0.046	1.119	1.023	0.190	0.053	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.05	6345	79	68.1	8.00	7.59	Right	0	V2	0.129	0.039	1.099	1.023	0.145	0.044	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.12	6505	111	68.1	7.50	5.79	Right	0	V2	0.127	0.038	1.483	1.023	0.193	0.058	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	-0.09	6665	143	68.1	7.25	7.07	Right	0	V2	0.188	0.057	1.042	1.023	0.200	0.061	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	-0.05	6985	207	68.1	6.75	5.50	Right	0	V2	0.143	0.045	1.334	1.023	0.195	0.061	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-105 Absorbed Power Density Data - Antenna 5T

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.13	6025	15	68.1	15.00	14.66	Back	0	V2	0.800	1.081	1.023	0.885
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.06	6025	15	68.1	15.00	14.66	Top	0	V2	0.014	1.081	1.023	0.015
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.09	6025	15	68.1	15.00	14.66	Bottom	0	V2	0.001	1.081	1.023	0.001
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.00	6025	15	68.1	15.00	14.66	Right	0	V2	6.370	1.081	1.023	7.044
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	-0.15	6345	79	68.1	14.00	13.60	Right	0	V2	6.350	1.096	1.023	7.120
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	-0.02	6505	111	68.1	12.00	11.89	Right	0	V2	4.710	1.026	1.023	4.944
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	992LN	97.7	-0.09	6665	143	68.1	13.25	13.14	Right	0	V2	6.890	1.026	1.023	7.232
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	TVJDP	97.7	-0.02	6985	207	68.1	11.75	11.43	Right	0	V1	6.960	1.076	1.023	7.661
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.11	6985	207	68.1	11.75	11.59	Right	0	V2	7.270	1.038	1.023	7.720
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.05	6025	15	68.1	15.00	14.66	Left	0	V2	0.207	1.081	1.023	0.229
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.03	6025	15	68.1	9.00	8.51	Back	0	V2	0.208	1.119	1.023	0.238
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	-0.14	6025	15	68.1	9.00	8.51	Right	0	V2	1.060	1.119	1.023	1.213
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.05	6345	79	68.1	8.00	7.59	Right	0	V2	0.891	1.099	1.023	1.002
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	0.12	6505	111	68.1	7.50	5.79	Right	0	V2	0.859	1.483	1.023	1.303
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	992LN	97.7	-0.09	6665	143	68.1	7.25	7.07	Right	0	V2	1.300	1.042	1.023	1.386
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	5T	HQ547	97.7	-0.05	6985	207	68.1	6.75	5.50	Right	0	V2	1.040	1.334	1.023	1.419

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-106 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.03	6025	15	68.1	10.75	9.98	Back	0	V2	0.434	0.161	1.194	1.023	0.530	0.197	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.12	6665	143	68.1	12.25	11.85	Back	0	V2	0.519	0.173	1.096	1.023	0.582	0.194	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.17	6025	15	68.1	10.75	9.98	Top	0	V2	0.872	0.214	1.194	1.023	1.065	0.261	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.03	6345	79	68.1	12.25	11.58	Top	0	V2	0.903	0.222	1.167	1.023	1.078	0.265	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	Q7WDG	97.7	0.09	6345	79	68.1	12.25	11.30	Top	0	V1	0.788	0.186	1.245	1.023	1.004	0.237	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.02	6505	111	68.1	11.75	11.70	Top	0	V2	1.030	0.266	1.012	1.023	1.066	0.275	A32
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	Q7WDG	97.7	0.09	6505	111	68.1	11.75	11.43	Top	0	V1	0.845	0.207	1.076	1.023	0.930	0.228	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.07	6505	111	68.1	11.75	11.70	Top	0	V2	0.881	0.221	1.012	1.023	0.912	0.229	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.11	6665	143	68.1	12.25	11.85	Top	0	V2	0.931	0.230	1.096	1.023	1.044	0.258	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.01	6985	207	68.1	11.75	11.41	Top	0	V2	0.906	0.234	1.081	1.023	1.002	0.259	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.04	6025	15	68.1	10.75	9.98	Bottom	0	V2	0.000	0.000	1.194	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.06	6665	143	68.1	12.25	11.85	Bottom	0	V2	0.000	0.000	1.096	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.14	6025	15	68.1	10.75	9.98	Right	0	V2	0.020	0.005	1.194	1.023	0.024	0.006	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.08	6665	143	68.1	12.25	11.85	Right	0	V2	0.026	0.004	1.096	1.023	0.029	0.004	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.06	6025	15	68.1	10.75	9.98	Left	0	V2	0.012	0.002	1.194	1.023	0.015	0.002	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.01	6665	143	68.1	12.25	11.85	Left	0	V2	0.000	0.000	1.096	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.12	6025	15	68.1	4.75	3.76	Back	0	V2	0.078	0.027	1.256	1.023	0.100	0.035	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.11	6665	143	68.1	6.25	5.33	Back	0	V2	0.094	0.032	1.236	1.023	0.119	0.040	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.06	6985	207	68.1	6.75	4.76	Back	0	V2	0.055	0.017	1.581	1.023	0.089	0.027	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.16	6025	15	68.1	4.75	3.76	Top	0	V2	0.139	0.033	1.256	1.023	0.179	0.042	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.03	6345	79	68.1	6.25	5.32	Top	0	V2	0.145	0.034	1.239	1.023	0.184	0.043	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.03	6505	111	68.1	5.75	4.65	Top	0	V2	0.108	0.025	1.288	1.023	0.142	0.033	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.09	6665	143	68.1	6.25	5.33	Top	0	V2	0.130	0.031	1.236	1.023	0.164	0.039	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.10	6985	207	68.1	6.75	4.76	Top	0	V2	0.098	0.022	1.581	1.023	0.159	0.036	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-107 Absorbed Power Density Data - Antenna 3b

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.03	6025	15	68.1	10.75	9.98	Back	0	V2	3.640	1.194	1.023	4.446
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.12	6665	143	68.1	12.25	11.85	Back	0	V2	3.930	1.096	1.023	4.406
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.17	6025	15	68.1	10.75	9.98	Top	0	V2	5.000	1.194	1.023	6.107
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.03	6345	79	68.1	12.25	11.58	Top	0	V2	5.170	1.167	1.023	6.172
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	Q7WDG	97.7	0.09	6345	79	68.1	12.25	11.30	Top	0	V1	4.370	1.245	1.023	5.566
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.02	6505	111	68.1	11.75	11.70	Top	0	V2	6.140	1.012	1.023	6.357
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	Q7WDG	97.7	0.09	6505	111	68.1	11.75	11.43	Top	0	V1	4.810	1.076	1.023	5.295
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.07	6505	111	68.1	11.75	11.70	Top	0	V2	5.100	1.012	1.023	5.280
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.11	6665	143	68.1	12.25	11.85	Top	0	V2	5.340	1.096	1.023	5.987
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.01	6985	207	68.1	11.75	11.41	Top	0	V2	5.380	1.081	1.023	5.950
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.04	6025	15	68.1	10.75	9.98	Bottom	0	V2	0.011	1.194	1.023	0.013
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.06	6665	143	68.1	12.25	11.85	Bottom	0	V2	0.000	1.096	1.023	0.000
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.14	6025	15	68.1	10.75	9.98	Right	0	V2	0.108	1.194	1.023	0.132
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.08	6665	143	68.1	12.25	11.85	Right	0	V2	0.092	1.096	1.023	0.103
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.06	6025	15	68.1	10.75	9.98	Left	0	V2	0.056	1.194	1.023	0.068
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.01	6665	143	68.1	12.25	11.85	Left	0	V2	0.000	1.096	1.023	0.000
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.12	6025	15	68.1	4.75	3.76	Back	0	V2	0.616	1.256	1.023	0.791
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.11	6665	143	68.1	6.25	5.33	Back	0	V2	0.720	1.236	1.023	0.910
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.06	6985	207	68.1	6.75	4.76	Back	0	V2	0.381	1.581	1.023	0.616
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.16	6025	15	68.1	4.75	3.76	Top	0	V2	0.767	1.256	1.023	0.986
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.03	6345	79	68.1	6.25	5.32	Top	0	V2	0.792	1.239	1.023	1.004
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	0.03	6505	111	68.1	5.75	4.65	Top	0	V2	0.586	1.288	1.023	0.772
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	DW7WF	97.7	-0.09	6665	143	68.1	6.25	5.33	Top	0	V2	0.714	1.236	1.023	0.903
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3b	992LN	97.7	-0.10	6985	207	68.1	6.75	4.76	Top	0	V2	0.518	1.581	1.023	0.838

Note: Blue entry represents variability measurement

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-108 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.02	6025	15	68.1	9.50	9.37	Back	0	V2	0.670	0.226	1.030	1.023	0.706	0.238	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.12	6505	111	68.1	10.00	9.64	Back	0	V2	0.627	0.203	1.086	1.023	0.697	0.226	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.01	6505	111	68.1	10.00	9.64	Top	0	V2	0.007	0.000	1.086	1.023	0.008	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.00	6025	15	68.1	9.50	9.37	Bottom	0	V2	0.942	0.218	1.030	1.023	0.993	0.230	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.11	6345	79	68.1	9.75	9.35	Bottom	0	V2	0.936	0.221	1.096	1.023	1.049	0.248	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	7RWQR	97.7	0.03	6345	79	68.1	9.75	9.65	Bottom	0	V1	1.000	0.237	1.023	1.023	1.047	0.248	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.13	6505	111	68.1	10.00	9.64	Bottom	0	V2	0.925	0.221	1.086	1.023	1.028	0.246	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.12	6665	143	68.1	10.00	9.44	Bottom	0	V2	0.876	0.200	1.138	1.023	1.020	0.233	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.01	6985	207	68.1	10.00	9.36	Bottom	0	V2	0.664	0.151	1.159	1.023	0.787	0.179	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.04	6505	111	68.1	10.00	9.64	Right	0	V2	0.017	0.003	1.086	1.023	0.019	0.003	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.05	6505	111	68.1	10.00	9.64	Left	0	V2	0.035	0.007	1.086	1.023	0.039	0.008	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.17	6025	15	68.1	3.50	2.53	Back	0	V2	0.117	0.036	1.250	1.023	0.150	0.046	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.06	6505	111	68.1	4.00	3.05	Back	0	V2	0.097	0.030	1.245	1.023	0.124	0.038	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.17	6985	207	68.1	6.50	4.98	Back	0	V2	0.134	0.040	1.419	1.023	0.195	0.058	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.12	6025	15	68.1	3.50	2.53	Bottom	0	V2	0.140	0.032	1.250	1.023	0.179	0.041	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.15	6345	79	68.1	3.75	2.76	Bottom	0	V2	0.130	0.028	1.256	1.023	0.167	0.036	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.06	6505	111	68.1	4.00	3.05	Bottom	0	V2	0.117	0.026	1.245	1.023	0.149	0.033	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.03	6665	143	68.1	4.00	3.00	Bottom	0	V2	0.121	0.027	1.259	1.023	0.156	0.035	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.10	6985	207	68.1	6.50	4.98	Bottom	0	V2	0.158	0.033	1.419	1.023	0.229	0.048	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-109 Absorbed Power Density Data - Antenna 1b

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.02	6025	15	68.1	9.50	9.37	Back	0	V2	5.160	1.030	1.023	5.437
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.12	6505	111	68.1	10.00	9.64	Back	0	V2	4.640	1.086	1.023	5.155
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.01	6505	111	68.1	10.00	9.64	Top	0	V2	0.013	1.086	1.023	0.014
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.00	6025	15	68.1	9.50	9.37	Bottom	0	V2	5.140	1.030	1.023	5.416
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.11	6345	79	68.1	9.75	9.35	Bottom	0	V2	5.160	1.096	1.023	5.785
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	7RWQR	97.7	0.03	6345	79	68.1	9.75	9.65	Bottom	0	V1	5.540	1.023	1.023	5.798
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.13	6505	111	68.1	10.00	9.64	Bottom	0	V2	5.150	1.086	1.023	5.722
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.12	6665	143	68.1	10.00	9.44	Bottom	0	V2	4.690	1.138	1.023	5.460
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.01	6985	207	68.1	10.00	9.36	Bottom	0	V2	3.540	1.159	1.023	4.197
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.04	6505	111	68.1	10.00	9.64	Right	0	V2	0.068	1.086	1.023	0.076
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.05	6505	111	68.1	10.00	9.64	Left	0	V2	0.161	1.086	1.023	0.179
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.17	6025	15	68.1	3.50	2.53	Back	0	V2	0.844	1.250	1.023	1.079
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.06	6505	111	68.1	4.00	3.05	Back	0	V2	0.697	1.245	1.023	0.888
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.17	6985	207	68.1	6.50	4.98	Back	0	V2	0.923	1.419	1.023	1.340
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.12	6025	15	68.1	3.50	2.53	Bottom	0	V2	0.746	1.250	1.023	0.954
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	-0.15	6345	79	68.1	3.75	2.76	Bottom	0	V2	0.672	1.256	1.023	0.863
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.06	6505	111	68.1	4.00	3.05	Bottom	0	V2	0.608	1.245	1.023	0.774
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.03	6665	143	68.1	4.00	3.00	Bottom	0	V2	0.629	1.259	1.023	0.810
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	HQ547	97.7	0.10	6985	207	68.1	6.50	4.98	Bottom	0	V2	0.792	1.419	1.023	1.150

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.6 2.4 GHz Bluetooth SISO Standalone SAR

Table 10-110 Antenna 3a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	3a	5002Q	77.0	-0.13	2441.00	39	1	12.50	11.39	Back	0	V2	0.422	0.182	1.291	1.006	0.548	0.236	
Body	2.4 GHz Bluetooth	FHSS	3a	5002Q	77.0	0.00	2441.00	39	1	12.50	11.39	Top	0	V2	0.326	0.098	1.291	1.006	0.424	0.127	
Body	2.4 GHz Bluetooth	FHSS	3a	5002Q	77.0	-0.17	2441.00	39	1	12.50	11.39	Bottom	0	V2	0.011	0.004	1.291	1.006	0.014	0.005	
Body	2.4 GHz Bluetooth	FHSS	3a	122JP	77.0	0.02	2402.00	0	1	12.50	10.80	Right	0	V1	0.713	0.264	1.479	1.006	1.061	0.393	
Body	2.4 GHz Bluetooth	FHSS	3a	5002Q	77.0	0.02	2402.00	0	1	12.50	10.82	Right	0	V2	0.719	0.264	1.472	1.006	1.065	0.391	
Body	2.4 GHz Bluetooth	FHSS	3a	122JP	77.0	0.00	2441.00	39	1	12.50	11.25	Right	0	V1	0.790	0.289	1.334	1.006	1.061	0.388	
Body	2.4 GHz Bluetooth	FHSS	3a	122JP	77.0	0.01	2480.00	78	1	12.50	10.81	Right	0	V1	0.609	0.226	1.476	1.006	0.905	0.336	
Body	2.4 GHz Bluetooth	FHSS	3a	5002Q	77.0	0.09	2441.00	39	1	12.50	11.39	Left	0	V2	0.000	0.000	1.291	1.006	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	3a	5002Q	77.0	-0.01	2441.00	39	1	8.00	7.09	Back	0	V2	0.174	0.076	1.233	1.006	0.216	0.094	
Body	2.4 GHz Bluetooth	FHSS	3a	5002Q	77.0	-0.07	2441.00	39	1	8.00	7.09	Top	0	V2	0.123	0.037	1.233	1.006	0.153	0.046	
Body	2.4 GHz Bluetooth	FHSS	3a	5002Q	77.0	-0.06	2441.00	39	1	8.00	7.09	Right	0	V2	0.311	0.111	1.233	1.006	0.386	0.138	
Body	2.4 GHz Bluetooth	FHSS	3a	5002Q	77.0	0.14	2441.00	39	1	5.50	4.71	Back	0	V2	0.094	0.040	1.199	1.006	0.113	0.048	
Body	2.4 GHz Bluetooth	FHSS	3a	5002Q	77.0	-0.06	2441.00	39	1	5.50	4.71	Top	0	V2	0.063	0.018	1.199	1.006	0.076	0.022	
Body	2.4 GHz Bluetooth	FHSS	3a	5002Q	77.0	-0.11	2441.00	39	1	5.50	4.71	Right	0	V2	0.166	0.059	1.199	1.006	0.200	0.071	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-111 Antenna 1a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	1a	122JP	77.0	-0.06	2402.00	0	1	13.00	12.56	Back	0	V1	0.881	0.339	1.107	1.006	0.982	0.378	
Body	2.4 GHz Bluetooth	FHSS	1a	5002Q	77.0	0.00	2402.00	0	1	13.00	12.60	Back	0	V2	0.985	0.366	1.096	1.006	1.087	0.404	A33
Body	2.4 GHz Bluetooth	FHSS	1a	5002Q	77.0	-0.04	2441.00	39	1	13.00	12.27	Back	0	V2	0.800	0.290	1.183	1.006	0.953	0.345	
Body	2.4 GHz Bluetooth	FHSS	1a	5002Q	77.0	0.00	2480.00	78	1	13.00	12.32	Back	0	V2	0.790	0.284	1.169	1.006	0.930	0.334	
Body	2.4 GHz Bluetooth	FHSS	1a	122JP	77.0	-0.18	2441.00	39	1	13.00	12.57	Top	0	V1	0.004	0.000	1.104	1.006	0.004	0.000	
Body	2.4 GHz Bluetooth	FHSS	1a	122JP	77.0	-0.03	2441.00	39	1	13.00	12.57	Bottom	0	V1	0.295	0.092	1.104	1.006	0.328	0.102	
Body	2.4 GHz Bluetooth	FHSS	1a	122JP	77.0	0.02	2441.00	39	1	13.00	12.57	Right	0	V1	0.000	0.000	1.104	1.006	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	1a	122JP	77.0	0.00	2402.00	0	1	13.00	12.56	Left	0	V1	0.787	0.281	1.107	1.006	0.877	0.313	
Body	2.4 GHz Bluetooth	FHSS	1a	122JP	77.0	0.00	2441.00	39	1	13.00	12.57	Left	0	V1	0.770	0.265	1.104	1.006	0.856	0.294	
Body	2.4 GHz Bluetooth	FHSS	1a	122JP	77.0	-0.04	2480.00	78	1	13.00	12.51	Left	0	V1	0.857	0.299	1.119	1.006	0.965	0.337	
Body	2.4 GHz Bluetooth	FHSS	1a	5002Q	77.0	0.01	2480.00	78	1	8.50	7.81	Back	0	V2	0.406	0.139	1.172	1.006	0.479	0.164	
Body	2.4 GHz Bluetooth	FHSS	1a	5002Q	77.0	0.06	2480.00	78	1	8.50	7.81	Bottom	0	V2	0.099	0.029	1.172	1.006	0.117	0.034	
Body	2.4 GHz Bluetooth	FHSS	1a	5002Q	77.0	-0.06	2480.00	78	1	8.50	7.81	Left	0	V2	0.360	0.121	1.172	1.006	0.425	0.143	
Body	2.4 GHz Bluetooth	FHSS	1a	5002Q	77.0	-0.08	2480.00	78	1	6.00	5.30	Back	0	V2	0.226	0.076	1.175	1.006	0.267	0.090	
Body	2.4 GHz Bluetooth	FHSS	1a	5002Q	77.0	0.15	2480.00	78	1	6.00	5.30	Bottom	0	V2	0.054	0.014	1.175	1.006	0.064	0.017	
Body	2.4 GHz Bluetooth	FHSS	1a	5002Q	77.0	0.08	2480.00	78	1	6.00	5.30	Left	0	V2	0.196	0.065	1.175	1.006	0.232	0.077	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.7 802.15.4 SISO Standalone SAR

Table 10-112 Antenna 3a

Exposure	Band / Mode	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	802.15.4	3a	5002Q	100.0	0.03	2405.00	11	0.25	12.50	12.01	Back	0	V2	0.536	0.232	1.119	0.360	0.156	
Body	802.15.4	3a	5002Q	100.0	0.00	2405.00	11	0.25	12.50	12.01	Top	0	V2	0.461	0.144	1.119	0.310	0.097	
Body	802.15.4	3a	5002Q	100.0	0.09	2405.00	11	0.25	12.50	12.01	Bottom	0	V2	0.013	0.005	1.119	0.009	0.003	
Body	802.15.4	3a	5002Q	100.0	0.01	2405.00	11	0.25	12.50	12.01	Right	0	V2	1.250	0.447	1.119	0.839	0.300	
Body	802.15.4	3a	5002Q	100.0	-0.02	2440.00	18	0.25	12.50	11.39	Right	0	V2	1.370	0.485	1.291	1.061	0.376	
Body	802.15.4	3a	57NMW	100.0	0.11	2440.00	18	0.25	12.50	11.67	Right	0	V1	1.450	0.520	1.211	1.054	0.378	A34
Body	802.15.4	3a	57NMW	100.0	0.09	2440.00	18	0.25	12.50	11.67	Right	0	V1	1.420	0.515	1.211	1.032	0.374	
Body	802.15.4	3a	57NMW	100.0	0.06	2440.00	18	0.25	12.50	11.67	Right	0	V1	1.280	0.433	1.211	0.930	0.315	
Body	802.15.4	3a	5002Q	100.0	0.02	2475.00	25	0.25	12.50	11.66	Right	0	V2	1.190	0.419	1.213	0.866	0.305	
Body	802.15.4	3a	5002Q	100.0	0.08	2405.00	11	0.25	12.50	12.01	Left	0	V2	0.000	0.000	1.119	0.000	0.000	
Body	802.15.4	3a	5002Q	100.0	0.04	2475.00	25	0.25	8.00	7.05	Back	0	V2	0.204	0.086	1.245	0.152	0.064	
Body	802.15.4	3a	5002Q	100.0	0.08	2475.00	25	0.25	8.00	7.05	Top	0	V2	0.174	0.052	1.245	0.130	0.039	
Body	802.15.4	3a	5002Q	100.0	-0.03	2475.00	25	0.25	8.00	7.05	Right	0	V2	0.515	0.170	1.245	0.385	0.127	
Body	802.15.4	3a	5002Q	100.0	-0.03	2475.00	25	0.25	5.50	4.54	Back	0	V2	0.081	0.034	1.247	0.061	0.025	
Body	802.15.4	3a	5002Q	100.0	-0.10	2475.00	25	0.25	5.50	4.54	Top	0	V2	0.076	0.023	1.247	0.057	0.017	
Body	802.15.4	3a	5002Q	100.0	0.00	2475.00	25	0.25	5.50	4.54	Right	0	V2	0.211	0.069	1.247	0.158	0.052	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: Blue entry represents variability measurement

Note: Manufacturer declared that maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at higher duty cycle of 100% and scaled down to 60%.

Table 10-113 Antenna 1a

Exposure	Band / Mode	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	802.15.4	1a	5002Q	100.0	0.00	2405.00	11	0.25	13.00	11.90	Back	0	V2	1.370	0.476	1.288	1.059	0.368	
Body	802.15.4	1a	122JP	100.0	0.01	2405.00	11	0.25	13.00	11.70	Back	0	V1	1.280	0.450	1.349	1.036	0.364	
Body	802.15.4	1a	5002Q	100.0	-0.04	2440.00	18	0.25	13.00	11.69	Back	0	V2	1.290	0.449	1.352	1.046	0.364	
Body	802.15.4	1a	5002Q	100.0	0.02	2475.00	25	0.25	13.00	11.76	Back	0	V2	1.040	0.364	1.330	0.830	0.290	
Body	802.15.4	1a	5002Q	100.0	-0.06	2405.00	11	0.25	13.00	11.90	Top	0	V2	0.038	0.015	1.288	0.029	0.012	
Body	802.15.4	1a	5002Q	100.0	-0.04	2405.00	11	0.25	13.00	11.90	Bottom	0	V2	0.437	0.134	1.288	0.338	0.104	
Body	802.15.4	1a	5002Q	100.0	0.05	2405.00	11	0.25	13.00	11.90	Right	0	V2	0.007	0.001	1.288	0.005	0.001	
Body	802.15.4	1a	5002Q	100.0	0.00	2405.00	11	0.25	13.00	11.90	Left	0	V2	1.000	0.323	1.288	0.773	0.250	
Body	802.15.4	1a	5002Q	100.0	0.03	2475.00	25	0.25	8.50	7.64	Back	0	V2	0.367	0.123	1.219	0.268	0.090	
Body	802.15.4	1a	5002Q	100.0	-0.01	2475.00	25	0.25	8.50	7.64	Bottom	0	V2	0.122	0.035	1.219	0.089	0.026	
Body	802.15.4	1a	5002Q	100.0	-0.02	2475.00	25	0.25	8.50	7.64	Left	0	V2	0.328	0.109	1.219	0.240	0.080	
Body	802.15.4	1a	5002Q	100.0	-0.03	2475.00	25	0.25	6.00	5.10	Back	0	V2	0.219	0.071	1.230	0.162	0.052	
Body	802.15.4	1a	5002Q	100.0	0.00	2475.00	25	0.25	6.00	5.10	Bottom	0	V2	0.070	0.020	1.230	0.052	0.015	
Body	802.15.4	1a	5002Q	100.0	0.01	2475.00	25	0.25	6.00	5.10	Left	0	V2	0.186	0.061	1.230	0.137	0.045	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: Manufacturer declared that maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at higher duty cycle of 100% and scaled down to 60%.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.8 5 GHz NB U-NII 1 Standalone SAR

Table 10-114 Antenna 5T

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	5T	GGXKH	76.4	0.07	5162.00	Low	1	12.50	11.66	Back	0	V2	0.006	0.000	1.213	0.007	0.000	
Body	NB U-NII 1	FHSS	5T	GGXKH	76.4	0.09	5162.00	Low	1	12.50	11.66	Top	0	V2	0.000	0.000	1.213	0.000	0.000	
Body	NB U-NII 1	FHSS	5T	GGXKH	76.4	0.09	5162.00	Low	1	12.50	11.66	Bottom	0	V2	0.000	0.000	1.213	0.000	0.000	
Body	NB U-NII 1	FHSS	5T	7RWQR	76.4	0.04	5245.00	High	1	12.50	11.45	Right	0	V1	0.144	0.032	1.274	0.186	0.041	
Body	NB U-NII 1	FHSS	5T	GGXKH	76.4	0.00	5245.00	High	1	12.50	11.34	Right	0	V2	0.156	0.031	1.306	0.207	0.041	
Body	NB U-NII 1	FHSS	5T	GGXKH	76.4	0.19	5162.00	Low	1	12.50	11.66	Right	0	V2	0.117	0.023	1.213	0.144	0.028	
Body	NB U-NII 1	FHSS	5T	GGXKH	76.4	0.06	5204.00	Mid	1	12.50	11.52	Right	0	V2	0.130	0.026	1.253	0.165	0.033	
Body	NB U-NII 1	FHSS	5T	GGXKH	76.4	0.03	5162.00	Low	1	12.50	11.66	Left	0	V2	0.000	0.000	1.213	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-115 Antenna 3b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	3b	FHF60	76.4	0.02	5245.00	High	4	11.50	10.28	Back	0	V1	0.343	0.116	1.324	0.461	0.156	
Body	NB U-NII 1	FHSS	3b	992LN	76.4	-0.09	5245.00	High	4	11.50	10.27	Top	0	V2	0.631	0.151	1.327	0.849	0.203	
Body	NB U-NII 1	FHSS	3b	FHF60	76.4	0.01	5245.00	High	4	11.50	10.28	Top	0	V1	0.702	0.170	1.324	0.944	0.229	
Body	NB U-NII 1	FHSS	3b	FHF60	76.4	0.05	5162.00	Low	4	11.50	10.08	Top	0	V1	0.614	0.148	1.387	0.865	0.208	
Body	NB U-NII 1	FHSS	3b	FHF60	76.4	0.06	5204.00	Mid	4	11.50	9.97	Top	0	V1	0.634	0.153	1.422	0.916	0.221	
Body	NB U-NII 1	FHSS	3b	FHF60	76.4	0.03	5245.00	High	4	11.50	10.28	Bottom	0	V1	0.000	0.000	1.324	0.000	0.000	
Body	NB U-NII 1	FHSS	3b	FHF60	76.4	0.20	5245.00	High	4	11.50	10.28	Right	0	V1	0.009	0.000	1.324	0.012	0.000	
Body	NB U-NII 1	FHSS	3b	FHF60	76.4	0.06	5245.00	High	4	11.50	10.28	Left	0	V1	0.003	0.000	1.324	0.004	0.000	
Body	NB U-NII 1	FHSS	3b	FHF60	76.9	0.03	5245.00	High	1	7.00	5.61	Back	0	V1	0.104	0.023	1.377	0.145	0.032	
Body	NB U-NII 1	FHSS	3b	FHF60	76.9	0.06	5245.00	High	1	7.00	5.61	Top	0	V1	0.217	0.049	1.377	0.302	0.068	
Body	NB U-NII 1	FHSS	3b	FHF60	76.9	0.04	5162.00	Low	1	4.50	3.21	Back	0	V1	0.037	0.007	1.346	0.050	0.010	
Body	NB U-NII 1	FHSS	3b	FHF60	76.9	0.04	5162.00	Low	1	4.50	3.21	Top	0	V1	0.080	0.016	1.346	0.109	0.022	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-116 Antenna 1b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	1b	JL7LC	76.4	-0.01	5245	High	4	10.50	9.69	Back	0	V2	0.788	0.231	1.205	0.963	0.282	
Body	NB U-NII 1	FHSS	1b	7RWQR	76.4	0.05	5245	High	4	10.50	10.01	Back	0	V1	0.896	0.261	1.119	1.017	0.296	
Body	NB U-NII 1	FHSS	1b	7RWQR	76.4	-0.01	5162	Low	4	10.50	9.80	Back	0	V1	0.772	0.222	1.175	0.920	0.265	
Body	NB U-NII 1	FHSS	1b	7RWQR	76.4	0.01	5204	Mid	4	10.50	9.98	Back	0	V1	0.882	0.256	1.127	1.008	0.293	
Body	NB U-NII 1	FHSS	1b	7RWQR	76.4	0.09	5245	High	4	10.50	10.01	Top	0	V1	0.000	0.000	1.119	0.000	0.000	
Body	NB U-NII 1	FHSS	1b	7RWQR	76.4	0.00	5245	High	4	10.50	10.01	Bottom	0	V1	0.769	0.185	1.119	0.873	0.210	
Body	NB U-NII 1	FHSS	1b	7RWQR	76.4	-0.01	5162	Low	4	10.50	9.80	Bottom	0	V1	0.665	0.157	1.175	0.793	0.187	
Body	NB U-NII 1	FHSS	1b	7RWQR	76.4	-0.03	5204	Mid	4	10.50	9.98	Bottom	0	V1	0.794	0.191	1.127	0.908	0.218	
Body	NB U-NII 1	FHSS	1b	7RWQR	76.4	0.03	5245	High	4	10.50	10.01	Right	0	V1	0.000	0.000	1.119	0.000	0.000	
Body	NB U-NII 1	FHSS	1b	7RWQR	76.4	0.02	5245	High	4	10.50	10.01	Left	0	V1	0.006	0.000	1.119	0.007	0.000	
Body	NB U-NII 1	FHSS	1b	Q7WDG	76.9	-0.02	5245	High	1	6.00	4.41	Back	0	V1	0.195	0.055	1.442	0.283	0.080	
Body	NB U-NII 1	FHSS	1b	Q7WDG	76.9	0.06	5245	High	1	6.00	4.41	Bottom	0	V1	0.179	0.040	1.442	0.260	0.058	
Body	NB U-NII 1	FHSS	1b	7RWQR	76.9	0.03	5204	Mid	1	3.50	3.49	Back	0	V1	0.156	0.041	1.002	0.158	0.041	
Body	NB U-NII 1	FHSS	1b	7RWQR	76.9	0.03	5204	Mid	1	3.50	3.49	Bottom	0	V1	0.133	0.027	1.002	0.134	0.027	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.9 5 GHz NB U-NII 3 Standalone SAR

Table 10-117 Antenna 5T

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	5T	DW7WF	76.8	0.06	5844.00	High	1	13.50	13.36	Back	0	V2	0.028	0.005	1.033	0.029	0.005	
Body	NB U-NII 3	FHSS	5T	DW7WF	76.8	-0.06	5844.00	High	1	13.50	13.36	Top	0	V2	0.000	0.000	1.033	0.000	0.000	
Body	NB U-NII 3	FHSS	5T	DW7WF	76.8	0.07	5844.00	High	1	13.50	13.36	Bottom	0	V2	0.000	0.000	1.033	0.000	0.000	
Body	NB U-NII 3	FHSS	5T	RWQR	76.8	0.01	5844.00	High	1	13.50	13.49	Right	0	V1	0.448	0.123	1.002	0.453	0.124	
Body	NB U-NII 3	FHSS	5T	DW7WF	76.8	0.01	5844.00	High	1	13.50	13.36	Right	0	V2	0.489	0.137	1.033	0.510	0.143	
Body	NB U-NII 3	FHSS	5T	DW7WF	76.8	0.07	5844.00	High	1	13.50	13.36	Left	0	V2	0.000	0.000	1.033	0.000	0.000	
Body	NB U-NII 3	FHSS	5T	DW7WF	76.8	0.06	5733.00	Low	1	12.00	10.95	Right	0	V2	0.224	0.059	1.274	0.288	0.076	
Body	NB U-NII 3	FHSS	5T	DW7WF	76.8	0.02	5844.00	High	1	9.50	8.62	Right	0	V2	0.169	0.042	1.225	0.209	0.052	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-118 Antenna 3b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	-0.01	5844	High	1	11.50	10.67	Back	0	V1	0.656	0.228	1.211	0.802	0.279	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	-0.08	5733	Low	1	11.50	10.88	Back	0	V1	0.716	0.248	1.153	0.833	0.289	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	0.05	5789	Mid	1	11.50	10.70	Back	0	V1	0.662	0.228	1.202	0.803	0.277	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	-0.10	5844	High	1	11.50	10.67	Top	0	V1	0.785	0.188	1.211	0.959	0.230	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	-0.03	5733	Low	1	11.50	10.88	Top	0	V1	0.937	0.227	1.153	1.090	0.264	A35
Body	NB U-NII 3	FHSS	3b	992LN	76.8	-0.07	5733	Low	1	11.50	10.69	Top	0	V2	0.896	0.217	1.205	1.090	0.264	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	0.01	5789	Mid	1	11.50	10.70	Top	0	V1	0.893	0.216	1.202	1.083	0.262	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	0.07	5733	Low	1	11.50	10.88	Bottom	0	V1	0.000	0.000	1.153	0.000	0.000	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	-0.09	5733	Low	1	11.50	10.88	Right	0	V1	0.044	0.003	1.153	0.051	0.003	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	0.02	5733	Low	1	11.50	10.88	Left	0	V1	0.012	0.000	1.153	0.014	0.000	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	0.08	5733	Low	1	7.00	5.26	Back	0	V1	0.172	0.056	1.493	0.259	0.084	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	-0.03	5733	Low	1	7.00	5.26	Top	0	V1	0.214	0.047	1.493	0.322	0.071	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	0.06	5844	High	1	4.50	3.39	Back	0	V1	0.081	0.018	1.291	0.106	0.023	
Body	NB U-NII 3	FHSS	3b	FHF60	76.8	0.07	5844	High	1	4.50	3.39	Top	0	V1	0.102	0.012	1.291	0.133	0.016	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-119 Antenna 1b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	0.01	5844.00	High	1	10.50	9.62	Back	0	V1	0.770	0.218	1.225	0.952	0.269	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	-0.06	5733.00	Low	1	10.50	9.87	Back	0	V1	0.698	0.199	1.156	0.814	0.232	
Body	NB U-NII 3	FHSS	1b	JGQGX	76.8	0.00	5789.00	Mid	1	10.50	9.56	Back	0	V2	0.752	0.223	1.242	0.942	0.279	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	0.01	5789.00	Mid	1	10.50	9.61	Back	0	V1	0.877	0.244	1.227	1.086	0.302	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	0.01	5733.00	Low	1	10.50	9.87	Top	0	V1	0.000	0.000	1.156	0.000	0.000	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	-0.06	5844.00	High	1	10.50	9.62	Bottom	0	V1	0.671	0.150	1.225	0.829	0.185	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	-0.03	5733.00	Low	1	10.50	9.87	Bottom	0	V1	0.607	0.135	1.156	0.708	0.157	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	0.01	5789.00	Mid	1	10.50	9.61	Bottom	0	V1	0.733	0.166	1.227	0.908	0.206	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	0.07	5733.00	Low	1	10.50	9.87	Right	0	V1	0.009	0.000	1.156	0.010	0.000	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	0.09	5733.00	Low	1	10.50	9.87	Left	0	V1	0.027	0.004	1.156	0.031	0.005	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	0.08	5733.00	Low	1	6.00	5.85	Back	0	V1	0.252	0.069	1.035	0.263	0.072	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	0.02	5733.00	Low	1	6.00	5.85	Bottom	0	V1	0.225	0.049	1.035	0.235	0.051	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	0.04	5733.00	Low	1	3.50	2.88	Back	0	V1	0.083	0.007	1.153	0.097	0.008	
Body	NB U-NII 3	FHSS	1b	FHF60	76.8	0.02	5733.00	Low	1	3.50	2.88	Bottom	0	V1	0.077	0.006	1.153	0.090	0.007	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.10 WPT Standalone SAR

Table 10-120 WPT SAR Standalone

Exposure	Band / Mode	Service / Modulation	Ant.	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Reported 1g SAR [W/kg]	Plot #
Body	wPT	CW	1	-0.05	13.60	Back	0	0.032	0.032	A36
Body	wPT	CW	1	0.08	13.60	Top	0	0.000	0	
Body	wPT	CW	1	0.05	13.60	Right	0	0.000	0	
Body	wPT	CW	1	0.01	13.60	Left	0	0.000	0	
Body	wPT	CW	1	0.02	13.60	Bottom	0	0.000	0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram				

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.11 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02, and FCC KDB Publication 447498 D04v01.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
7. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
8. This device uses Smart Transmit for WWAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested. Absorbed power density (APD) using a $4cm^2$ averaging area is reported based on SAR measurements.

UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR were not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 7.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D04v01, when the reported LTE Band 41 and LTE Band 48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure condition. Please see Section 13 for linearity results.
8. For LTE Band 5, LTE Band 7, LTE Band 41, and LTE Band 48, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
9. This device supports LTE Band 41 ULCA active with Power Class 2. Highest SAR test configuration for each exposure condition in Power Class 3 with ULCA active was repeated with Power Class 2 with ULCA active.
10. This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

NR Notes:

1. NR implementation supports SA and NSA modes. NR implementation in EN-DC mode operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Per FCC KDB Publication 447498 D04v01, when the reported SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for NR n77 C 1g evaluations, > 0.6 W/kg for NR n41 1g evaluations, and > 0.8 W/kg for NR n77 DoD, testing at the other channels was required for such test configurations.
3. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
4. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
5. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
6. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
7. This device supports Power Class 2 and Power Class 3 operations for NR Band n41, NR Band n77 DoD, and NR Band n77 C. The highest available duty cycle for Power Class 2 and Power Class 3 operations is 100.0 %. Per FCC Guidance, all SAR tests were performed using Power Class 2.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.6.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 7.6.5 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D04v01 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 11 for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power.

Bluetooth/NB-UNII Notes

1. Bluetooth/NB-UNII SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per manufacturer. See Section 8.14 and 8.16 for the time domain plot and calculation for the duty factor of the device.

802.15.4 Notes

1. The manufacturer declared that the maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at a higher duty cycle of 100% and scaled down to 60%. See Section 8.15 for the time domain plot for the duty factor of the device at the maximum source-based duty cycle of 60% and at the test mode during SAR measurement of 100%.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

10.12 Power Density Data

MEASUREMENT RESULTS																									
Frequency (MHz)	Channel	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift (dB)	Spacing (mm)	Antenna Config.	Variant	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (λ)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6025	15	802.11ax	OFDM	160	15.00	14.66	0.07	2	5T	V2	HQ547	68.1	Right	97.7	0.25	-	1.554	1.081	1.023	2.800	4.812	3.400	5.843	
6345	79	802.11ax	OFDM	160	14.00	13.60	0.18	2	5T	V2	HQ547	68.1	Right	97.7	0.25	-	1.554	1.096	1.023	2.520	4.391	3.210	5.593	
6505	111	802.11ax	OFDM	160	12.00	11.89	0.03	2	5T	V2	HQ547	68.1	Right	97.7	0.25	-	1.554	1.026	1.023	2.950	4.812	3.450	5.627	
6665	143	802.11ax	OFDM	160	13.25	13.14	0.20	2	5T	V2	HQ547	68.1	Right	97.7	0.25	2.250	1.554	1.026	1.023	2.390	3.898	3.850	6.280	
6985	207	802.11ax	OFDM	160	11.75	11.59	0.02	2	5T	V2	HQ547	68.1	Right	97.7	0.25	-	1.554	1.038	1.023	3.040	5.016	3.620	5.974	
6025	15	802.11ax	OFDM	160	15.00	14.66	-0.02	2	5T	V2	HQ547	68.1	Back	97.7	0.25	-	1.554	1.081	1.023	0.439	0.754	0.541	0.930	
6025	15	802.11ax	OFDM	160	15.00	14.66	0.02	2	5T	V2	HQ547	68.1	Top	97.7	0.25	-	1.554	1.081	1.023	0.345	0.593	0.356	0.612	
6025	15	802.11ax	OFDM	160	15.00	14.66	0.00	2	5T	V2	HQ547	68.1	Bottom	97.7	0.25	-	1.554	1.081	1.023	0.174	0.299	0.193	0.332	
6025	15	802.11ax	OFDM	160	15.00	14.66	0.06	2	5T	V2	HQ547	68.1	Left	97.7	0.25	-	1.554	1.081	1.023	0.328	0.564	0.397	0.682	
6665	143	802.11ax	OFDM	160	13.25	13.22	0.20	2	5T	V1	TVJDP	68.1	Right	97.7	0.25	-	1.554	1.007	1.023	2.850	4.562	3.600	5.763	
6665	143	802.11ax	OFDM	160	13.25	13.14	0.04	9	5T	V2	HQ547	68.1	Right	97.7	0.25	2.640	1.554	1.026	1.023	1.960	3.197	2.130	3.474	
6025	15	802.11ax	OFDM	160	10.75	9.98	-0.02	2	3b	V2	HQ547	68.1	Top	97.7	0.25	-	1.554	1.194	1.023	1.510	2.866	1.620	3.075	
6345	79	802.11ax	OFDM	160	12.25	11.58	0.01	2	3b	V2	HQ547	68.1	Top	97.7	0.25	-	1.554	1.167	1.023	0.737	1.367	2.110	3.915	
6505	111	802.11ax	OFDM	160	11.75	11.70	0.01	2	3b	V2	HQ547	68.1	Top	97.7	0.25	-	1.554	1.012	1.023	1.740	2.799	2.580	4.151	
6665	143	802.11ax	OFDM	160	12.25	11.85	-0.02	2	3b	V2	HQ547	68.1	Top	97.7	0.25	-	1.554	1.096	1.023	1.420	2.474	1.840	3.206	
6985	207	802.11ax	OFDM	160	11.75	11.41	-0.16	2	3b	V2	HQ547	68.1	Top	97.7	0.25	2.450	1.554	1.081	1.023	2.700	4.640	3.580	6.152	
6665	143	802.11ax	OFDM	160	12.25	11.85	-0.10	2	3b	V2	HQ547	68.1	Back	97.7	0.25	-	1.554	1.096	1.023	1.330	2.317	1.570	2.736	
6665	143	802.11ax	OFDM	160	12.25	11.85	-0.06	2	3b	V2	HQ547	68.1	Bottom	97.7	0.25	-	1.554	1.096	1.023	0.186	0.324	0.229	0.399	
6665	143	802.11ax	OFDM	160	12.25	11.85	-0.05	2	3b	V2	HQ547	68.1	Left	97.7	0.25	-	1.554	1.096	1.023	0.335	0.584	0.339	0.591	
6665	143	802.11ax	OFDM	160	12.25	11.85	0.04	2	3b	V2	HQ547	68.1	Right	97.7	0.25	-	1.554	1.096	1.023	0.344	0.599	0.361	0.629	
6985	207	802.11ax	OFDM	160	11.75	11.41	-0.02	8.58	3b	V2	HQ547	68.1	Top	97.7	0.25	1.920	1.554	1.081	1.023	0.920	1.581	0.955	1.641	
6985	207	802.11ax	OFDM	160	11.75	11.53	-0.13	2	3b	V1	7RWQR	68.1	Top	97.7	0.25	-	1.554	1.052	1.023	1.540	2.576	2.070	3.462	
6025	15	802.11ax	OFDM	160	9.50	9.37	0.00	2	1b	V2	HQ547	68.1	Bottom	97.7	0.25	1.650	1.554	1.030	1.023	1.400	2.292	4.290	7.025	A37
6345	79	802.11ax	OFDM	160	9.75	9.35	0.01	2	1b	V2	HQ547	68.1	Bottom	97.7	0.25	-	1.554	1.096	1.023	1.470	2.561	1.930	3.363	
6505	111	802.11ax	OFDM	160	10.00	9.64	0.20	2	1b	V2	HQ547	68.1	Bottom	97.7	0.25	-	1.554	1.086	1.023	1.970	3.401	2.280	3.936	
6665	143	802.11ax	OFDM	160	10.00	9.44	-0.03	2	1b	V2	HQ547	68.1	Bottom	97.7	0.25	-	1.554	1.138	1.023	1.320	2.388	1.500	2.714	
6985	207	802.11ax	OFDM	160	10.00	9.36	-0.20	2	1b	V2	HQ547	68.1	Bottom	97.7	0.25	-	1.554	1.159	1.023	1.200	2.211	1.850	3.409	
6505	111	802.11ax	OFDM	160	10.00	9.64	0.08	2	1b	V2	HQ547	68.1	Back	97.7	0.25	-	1.554	1.086	1.023	0.776	1.340	0.861	1.486	
6505	111	802.11ax	OFDM	160	10.00	9.64	-0.07	2	1b	V2	HQ547	68.1	Top	97.7	0.25	-	1.554	1.086	1.023	0.201	0.347	0.210	0.363	
6505	111	802.11ax	OFDM	160	10.00	9.64	-0.03	2	1b	V2	HQ547	68.1	Left	97.7	0.25	-	1.554	1.086	1.023	0.191	0.330	0.229	0.395	
6505	111	802.11ax	OFDM	160	10.00	9.64	0.09	2	1b	V2	HQ547	68.1	Right	97.7	0.25	-	1.554	1.086	1.023	0.053	0.092	0.120	0.207	
6025	15	802.11ax	OFDM	160	9.50	8.94	0.02	2	1b	V1	TVJDP	68.1	Bottom	97.7	0.25	-	1.554	1.138	1.023	2.810	5.084	3.020	5.464	
6025	15	802.11ax	OFDM	160	9.50	9.37	0.13	9.95	1b	V2	HQ547	68.1	Bottom	97.7	0.25	1.080	1.554	1.030	1.023	0.830	1.359	0.854	1.398	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population											Power Density 10 W/m² averaged over 4 cm²														

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.13 Power Density Notes

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by λ/4.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at d=2mm and d=λ/5mm using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is ≥ -1dB, the grid step was sufficient for determining compliance at d=2mm.
7. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01.
8. PTP-PR algorithm was used during psPD measurement and calculations.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D04v01 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

11.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D04v01 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Note:
SAR Summations for some scenarios when the output power levels are reduced, SAR values at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

For each position, the highest SAR value across all modes for the applicable cellular band antenna was considered for summation to determine simultaneous SAR test exclusion.

*The SAR distributions for at least one of the antennas are spatially separated from the other antennas per FCC KDB Publication 248227 Section 6.1 procedures. Therefore, simultaneous transmission was treated independently for this configuration. See section 11.4 for more information about the Spatial Separation Analysis.

Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G (including scenarios with inter-band ULCA active) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR and during inter-band ULCA active conditions to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations (including scenarios with inter-band ULCA active) is demonstrated in the Part 2 Report during algorithm validation.

All 3G/4G/5G transmitting antennas are within one Smart Transmit Gen2 antenna group, therefore no additional simultaneous analysis is required.

In some cases where simultaneous transmission scenarios overlap with the same power level (for example, cellular band + 2.4 GHz WIFI SISO and cellular band + 2.4 GHz WIFI MIMO), the most conservative SAR summation scenario was evaluated.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

11.3 Body SAR Simultaneous Transmission Analysis

Table 11-1
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	0.328	0.332	0.032	1.352*
	Top	0.007	0.292	0.012	0.000	0.311
	Bottom	0.257	0.009	0.086	0.000	0.352
	Right	0.001	1.063	0.000	0.000	1.064
	Left	0.941	0.000	0.244	0.000	1.185

Table 11-2
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.328	0.332	0.032	1.357*
	Top	0.019	0.292	0.012	0.000	0.323
	Bottom	0.986	0.009	0.086	0.000	1.081
	Right	0.036	1.063	0.000	0.000	1.099
	Left	0.064	0.000	0.244	0.000	0.308

Table 11-3
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.328	1.087	0.032	1.447*
	Top	0.048	0.292	0.012	0.000	0.352
	Bottom	0.953	0.009	0.321	0.000	1.283
	Right	0.993	1.063	0.000	0.000	1.063*
	Left	0.059	0.000	0.999	0.000	1.058

Table 11-4
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.486	0.080	1.087	0.032	1.119*
	Top	0.289	0.069	0.012	0.000	0.370
	Bottom	0.008	0.009	0.321	0.000	0.338
	Right	0.990	0.226	0.000	0.000	1.216
	Left	0.000	0.000	0.999	0.000	0.999

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-5
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.780	0.080	1.087	0.032	1.119*
	Top	0.994	0.069	0.012	0.000	1.075
	Bottom	0.017	0.009	0.321	0.000	0.347
	Right	0.115	0.226	0.000	0.000	0.341
	Left	0.059	0.000	0.999	0.000	1.058

Table 11-6
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	0.328	1.087	0.032	1.447*
	Top	0.925	0.292	0.012	0.000	1.229
	Bottom	0.047	0.009	0.321	0.000	0.377
	Right	0.060	1.063	0.000	0.000	1.123
	Left	0.982	0.000	0.999	0.000	0.999*

Table 11-7
Cellular Band Ant 1a Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.988	0.079	0.249	0.534	0.032	1.348	1.554*	1.269*
	Top	0.007	0.004	0.000	1.089	0.000	0.011	1.100	1.096
	Bottom	0.257	0.000	0.237	0.000	0.000	0.494	0.257	0.494
	Right	0.001	1.086	0.020	0.033	0.000	1.107	1.120	0.054
	Left	0.941	0.013	0.051	0.018	0.000	1.005	0.972	1.010

Table 11-8
Cellular Band Ant 1b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.993	0.079	0.249	0.534	0.032	1.353	1.559*	1.274*
	Top	0.019	0.004	0.000	1.089	0.000	0.023	1.112	1.108
	Bottom	0.986	0.000	0.237	0.000	0.000	1.223	0.986	1.223
	Right	0.036	1.086	0.020	0.033	0.000	1.142	1.155	0.089
	Left	0.064	0.013	0.051	0.018	0.000	0.128	0.095	0.133

Table 11-9
Cellular Band Ant 2 Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.990	0.079	1.070	0.534	0.032	1.181*	1.556*	1.556*
	Top	0.048	0.004	0.000	1.089	0.000	0.052	1.141	1.137
	Bottom	0.953	0.000	0.922	0.000	0.000	0.953*	0.953	0.953*
	Right	0.993	1.086	0.020	0.033	0.000	1.106*	1.119*	1.046
	Left	0.059	0.013	0.051	0.018	0.000	0.123	0.090	0.128

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-10
Cellular Band Ant 3a Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.486	0.079	1.070	0.162	0.032	1.588*	0.759	1.102*
	Top	0.289	0.004	0.000	0.265	0.000	0.293	0.558	0.554
	Bottom	0.008	0.000	0.922	0.000	0.000	0.930	0.008	0.930
	Right	0.990	0.228	0.020	0.033	0.000	1.238	1.251	1.043
	Left	0.000	0.013	0.051	0.018	0.000	0.064	0.031	0.069

Table 11-11
Cellular Band Ant 3b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.780	0.079	1.070	0.162	0.032	1.181*	1.053	1.102*
	Top	0.994	0.004	0.000	0.265	0.000	0.998	1.263	1.259
	Bottom	0.017	0.000	0.922	0.000	0.000	0.939	0.017	0.939
	Right	0.115	0.228	0.020	0.033	0.000	0.363	0.376	0.168
	Left	0.059	0.013	0.051	0.018	0.000	0.123	0.090	0.128

Table 11-12
Cellular Band Ant 4 Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.994	0.079	1.070	0.534	0.032	1.181*	1.56*	1.56*
	Top	0.925	0.004	0.000	1.089	0.000	0.929	1.093*	1.089*
	Bottom	0.047	0.000	0.922	0.000	0.000	0.969	0.047	0.969
	Right	0.060	1.086	0.020	0.033	0.000	1.166	1.179	0.113
	Left	0.982	0.013	0.051	0.018	0.000	1.046	1.013	1.051

Table 11-13
Cellular Band Ant 1a Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.988	0.103	0.195	0.582	0.032	1.318	1.123*	1.215*
	Top	0.007	0.002	0.008	1.078	0.000	0.017	1.087	1.093
	Bottom	0.257	0.000	0.229	0.000	0.000	0.486	0.257	0.486
	Right	0.001	1.072	0.019	0.029	0.000	1.092	1.102	0.049
	Left	0.941	0.027	0.039	0.015	0.000	1.007	0.983	0.995

Table 11-14
Cellular Band Ant 1b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.993	0.103	0.195	0.582	0.032	1.323	1.128*	1.22*
	Top	0.019	0.002	0.008	1.078	0.000	0.029	1.099	1.105
	Bottom	0.986	0.000	0.229	0.000	0.000	1.215	0.986	1.215
	Right	0.036	1.072	0.019	0.029	0.000	1.127	1.137	0.084
	Left	0.064	0.027	0.039	0.015	0.000	0.130	0.106	0.118

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-15
Cellular Band Ant 2 Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.990	0.103	0.706	0.582	0.032	1.125*	1.125*	1.32*
	Top	0.048	0.002	0.008	1.078	0.000	0.058	1.128	1.134
	Bottom	0.953	0.000	1.049	0.000	0.000	1.049*	0.953	1.049*
	Right	0.993	1.072	0.019	0.029	0.000	1.091*	1.101*	1.041
	Left	0.059	0.027	0.039	0.015	0.000	0.125	0.101	0.113

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-16
Cellular Band Ant 3a Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.486	0.025	0.706	0.119	0.032	1.249	0.662	1.343
	Top	0.289	0.002	0.008	0.184	0.000	0.299	0.475	0.481
	Bottom	0.008	0.000	1.049	0.000	0.000	1.057	0.008	1.057
	Right	0.990	0.200	0.019	0.029	0.000	1.209	1.219	1.038
	Left	0.000	0.027	0.039	0.015	0.000	0.066	0.042	0.054

Table 11-17
Cellular Band Ant 3b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.780	0.025	0.706	0.119	0.032	1.543	0.956	0.931*
	Top	0.994	0.002	0.008	0.184	0.000	1.004	1.180	1.186
	Bottom	0.017	0.000	1.049	0.000	0.000	1.066	0.017	1.066
	Right	0.115	0.200	0.019	0.029	0.000	0.334	0.344	0.163
	Left	0.059	0.027	0.039	0.015	0.000	0.125	0.101	0.113

Table 11-18
Cellular Band Ant 4 Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.994	0.103	0.706	0.582	0.032	1.129*	1.129*	1.32*
	Top	0.925	0.002	0.008	1.078	0.000	0.935	1.08*	1.086*
	Bottom	0.047	0.000	1.049	0.000	0.000	1.096	0.047	1.096
	Right	0.060	1.072	0.019	0.029	0.000	1.151	1.161	0.108
	Left	0.982	0.027	0.039	0.015	0.000	1.048	1.024	1.036

Table 11-19
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	0.548	0.479	0.032	1.499*
	Top	0.007	0.424	0.004	0.000	0.435
	Bottom	0.257	0.014	0.117	0.000	0.388
	Right	0.001	1.065	0.000	0.000	1.066
	Left	0.941	0.000	0.425	0.000	1.366

Table 11-20
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.548	0.479	0.032	1.504*
	Top	0.019	0.424	0.004	0.000	0.447
	Bottom	0.986	0.014	0.117	0.000	1.117
	Right	0.036	1.065	0.000	0.000	1.101
	Left	0.064	0.000	0.425	0.000	0.489

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-21
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.548	1.087	0.032	1.57*
	Top	0.048	0.424	0.004	0.000	0.476
	Bottom	0.953	0.014	0.328	0.000	1.295
	Right	0.993	1.065	0.000	0.000	1.065*
	Left	0.059	0.000	0.965	0.000	1.024

Table 11-22
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.486	0.216	1.087	0.032	1.119*
	Top	0.289	0.153	0.004	0.000	0.446
	Bottom	0.008	0.014	0.328	0.000	0.350
	Right	0.990	0.386	0.000	0.000	1.376
	Left	0.000	0.000	0.965	0.000	0.965

Table 11-23
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.780	0.216	1.087	0.032	1.119*
	Top	0.994	0.153	0.004	0.000	1.151
	Bottom	0.017	0.014	0.328	0.000	0.359
	Right	0.115	0.386	0.000	0.000	0.501
	Left	0.059	0.000	0.965	0.000	1.024

Table 11-24
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	0.548	1.087	0.032	1.574*
	Top	0.925	0.424	0.004	0.000	1.353
	Bottom	0.047	0.014	0.328	0.000	0.389
	Right	0.060	1.065	0.000	0.000	1.125
	Left	0.982	0.000	0.965	0.000	0.982*

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-25
Cellular Band Ant 1a Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	NB U-NII Ant 5T SAR (W/kg)	NB U-NII Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	0.029	0.833	0.032	1.049*
	Top	0.007	0.000	1.090	0.000	1.097
	Bottom	0.257	0.000	0.000	0.000	0.257
	Right	0.001	0.510	0.051	0.000	0.562
	Left	0.941	0.000	0.014	0.000	0.955

Table 11-26
Cellular Band Ant 1b Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	NB U-NII Ant 5T SAR (W/kg)	NB U-NII Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.029	0.833	0.032	1.054*
	Top	0.019	0.000	1.090	0.000	1.109
	Bottom	0.986	0.000	0.000	0.000	0.986
	Right	0.036	0.510	0.051	0.000	0.597
	Left	0.064	0.000	0.014	0.000	0.078

Table 11-27
Cellular Band Ant 2 Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	NB U-NII Ant 5T SAR (W/kg)	NB U-NII Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.029	0.833	0.032	1.051*
	Top	0.048	0.000	1.090	0.000	1.138
	Bottom	0.953	0.000	0.000	0.000	0.953
	Right	0.993	0.510	0.051	0.000	1.554
	Left	0.059	0.000	0.014	0.000	0.073

Table 11-28
Cellular Band Ant 3a Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	NB U-NII Ant 5T with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3b with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.486	0.029	0.259	0.032	0.806
	Top	0.289	0.000	0.322	0.000	0.611
	Bottom	0.008	0.000	0.000	0.000	0.008
	Right	0.990	0.288	0.051	0.000	1.329
	Left	0.000	0.000	0.014	0.000	0.014

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-29
Cellular Band Ant 3b Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	NB U-NII Ant 5T with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3b with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.780	0.029	0.259	0.032	1.100
	Top	0.994	0.000	0.322	0.000	1.316
	Bottom	0.017	0.000	0.000	0.000	0.017
	Right	0.115	0.288	0.051	0.000	0.454
	Left	0.059	0.000	0.014	0.000	0.073

Table 11-30
Cellular Band Ant 4 Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	NB U-NII Ant 5T SAR (W/kg)	NB U-NII Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	0.029	0.833	0.032	1.055*
	Top	0.925	0.000	1.090	0.000	1.09*
	Bottom	0.047	0.000	0.000	0.000	0.047
	Right	0.060	0.510	0.051	0.000	0.621
	Left	0.982	0.000	0.014	0.000	0.996

Table 11-31
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.216	0.479	0.079	0.534	0.032	1.578*
	Top	0.007	0.153	0.004	0.004	1.089	0.000	1.257
	Bottom	0.257	0.014	0.117	0.000	0.000	0.000	0.388
	Right	0.001	0.386	0.000	1.086	0.033	0.000	1.506
	Left	0.941	0.000	0.425	0.013	0.018	0.000	1.397

Table 11-32
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.216	0.267	0.534	0.249	0.032	1.536*
	Top	0.007	0.153	0.004	1.089	0.000	0.000	1.253
	Bottom	0.257	0.014	0.064	0.000	0.237	0.000	0.572
	Right	0.001	0.386	0.000	0.033	0.020	0.000	0.440
	Left	0.941	0.000	0.232	0.018	0.051	0.000	1.242

Table 11-33
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.548	0.267	0.249	0.079	0.032	1.536*
	Top	0.007	0.424	0.004	0.000	0.004	0.000	0.439
	Bottom	0.257	0.014	0.064	0.237	0.000	0.000	0.572
	Right	0.001	1.065	0.000	0.020	1.086	0.000	1.107*
	Left	0.941	0.000	0.232	0.051	0.013	0.000	1.237

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-34
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.216	0.479	0.079	0.534	0.032	1.583*
	Top	0.019	0.153	0.004	0.004	1.089	0.000	1.269
	Bottom	0.986	0.014	0.117	0.000	0.000	0.000	1.117
	Right	0.036	0.386	0.000	1.086	0.033	0.000	1.541
	Left	0.064	0.000	0.425	0.013	0.018	0.000	0.520

Table 11-35
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.216	0.267	0.534	0.249	0.032	1.541*
	Top	0.019	0.153	0.004	1.089	0.000	0.000	1.265
	Bottom	0.986	0.014	0.064	0.000	0.237	0.000	1.301
	Right	0.036	0.386	0.000	0.033	0.020	0.000	0.475
	Left	0.064	0.000	0.232	0.018	0.051	0.000	0.365

Table 11-36
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.548	0.267	0.249	0.079	0.032	1.541*
	Top	0.019	0.424	0.004	0.000	0.004	0.000	0.451
	Bottom	0.986	0.014	0.064	0.237	0.000	0.000	1.301
	Right	0.036	1.065	0.000	0.020	1.086	0.000	1.142*
	Left	0.064	0.000	0.232	0.051	0.013	0.000	0.360

Table 11-37
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.216	1.087	0.079	0.534	0.032	1.198*
	Top	0.048	0.153	0.004	0.004	1.089	0.000	1.298
	Bottom	0.953	0.014	0.328	0.000	0.000	0.000	1.295
	Right	0.993	0.386	0.000	1.086	0.033	0.000	1.505*
	Left	0.059	0.000	0.965	0.013	0.018	0.000	1.055

Table 11-38
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.216	0.479	0.534	1.070	0.032	1.581*
	Top	0.048	0.153	0.004	1.089	0.000	0.000	1.294
	Bottom	0.953	0.014	0.117	0.000	0.922	0.000	1.053*
	Right	0.993	0.386	0.000	0.033	0.020	0.000	1.432
	Left	0.059	0.000	0.425	0.018	0.051	0.000	0.553

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-39
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.548	0.479	1.070	0.079	0.032	1.581*
	Top	0.048	0.424	0.004	0.000	0.004	0.000	0.480
	Bottom	0.953	0.014	0.117	0.922	0.000	0.000	1.053*
	Right	0.993	1.065	0.000	0.020	1.086	0.000	1.106*
	Left	0.059	0.000	0.425	0.051	0.013	0.000	0.548

Table 11-40
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.486	0.113	1.087	0.079	0.162	0.032	1.198*
	Top	0.289	0.076	0.004	0.004	0.265	0.000	0.638
	Bottom	0.008	0.014	0.328	0.000	0.000	0.000	0.350
	Right	0.990	0.200	0.000	0.228	0.033	0.000	1.451
	Left	0.000	0.000	0.965	0.013	0.018	0.000	0.996

Table 11-41
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.486	0.113	0.479	0.162	1.070	0.032	1.581*
	Top	0.289	0.076	0.004	0.265	0.000	0.000	0.634
	Bottom	0.008	0.014	0.117	0.000	0.922	0.000	1.061
	Right	0.990	0.200	0.000	0.033	0.020	0.000	1.243
	Left	0.000	0.000	0.425	0.018	0.051	0.000	0.494

Table 11-42
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.486	0.216	0.479	1.070	0.079	0.032	1.581*
	Top	0.289	0.153	0.004	0.000	0.004	0.000	0.450
	Bottom	0.008	0.014	0.117	0.922	0.000	0.000	1.061
	Right	0.990	0.386	0.000	0.020	0.228	0.000	1.396*
	Left	0.000	0.000	0.425	0.051	0.013	0.000	0.489

Table 11-43
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.780	0.113	1.087	0.079	0.162	0.032	1.198*
	Top	0.994	0.076	0.004	0.004	0.265	0.000	1.343
	Bottom	0.017	0.014	0.328	0.000	0.000	0.000	0.359
	Right	0.115	0.200	0.000	0.228	0.033	0.000	0.576
	Left	0.059	0.000	0.965	0.013	0.018	0.000	1.055

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-44
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.780	0.113	0.479	0.162	1.070	0.032	1.581*
	Top	0.994	0.076	0.004	0.265	0.000	0.000	1.339
	Bottom	0.017	0.014	0.117	0.000	0.922	0.000	1.070
	Right	0.115	0.200	0.000	0.033	0.020	0.000	0.368
	Left	0.059	0.000	0.425	0.018	0.051	0.000	0.553

Table 11-45
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.780	0.216	0.479	1.070	0.079	0.032	1.581*
	Top	0.994	0.153	0.004	0.000	0.004	0.000	1.155
	Bottom	0.017	0.014	0.117	0.922	0.000	0.000	1.070
	Right	0.115	0.386	0.000	0.020	0.228	0.000	0.749
	Left	0.059	0.000	0.425	0.051	0.013	0.000	0.548

Table 11-46
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.994	0.216	1.087	0.079	0.534	0.032	1.198*
	Top	0.925	0.153	0.004	0.004	1.089	0.000	1.25*
	Bottom	0.047	0.014	0.328	0.000	0.000	0.000	0.389
	Right	0.060	0.386	0.000	1.086	0.033	0.000	1.565
	Left	0.982	0.000	0.965	0.013	0.018	0.000	1.013*

Table 11-47
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.994	0.216	0.479	0.534	1.070	0.032	1.581*
	Top	0.925	0.153	0.004	1.089	0.000	0.000	1.246*
	Bottom	0.047	0.014	0.117	0.000	0.922	0.000	1.100
	Right	0.060	0.386	0.000	0.033	0.020	0.000	0.499
	Left	0.982	0.000	0.425	0.018	0.051	0.000	1.476

Table 11-48
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.994	0.548	0.479	1.070	0.079	0.032	1.581*
	Top	0.925	0.424	0.004	0.000	0.004	0.000	1.357
	Bottom	0.047	0.014	0.117	0.922	0.000	0.000	1.100
	Right	0.060	1.065	0.000	0.020	1.086	0.000	1.166*
	Left	0.982	0.000	0.425	0.051	0.013	0.000	1.471

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-49
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.216	0.479	0.103	0.582	0.032	1.499*
	Top	0.007	0.153	0.004	0.002	1.078	0.000	1.244
	Bottom	0.257	0.014	0.117	0.000	0.000	0.000	0.388
	Right	0.001	0.386	0.000	1.072	0.029	0.000	1.488
	Left	0.941	0.000	0.425	0.027	0.015	0.000	1.408

Table 11-50
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.216	0.267	0.582	0.195	0.032	1.482*
	Top	0.007	0.153	0.004	1.078	0.008	0.000	1.250
	Bottom	0.257	0.014	0.064	0.000	0.229	0.000	0.564
	Right	0.001	0.386	0.000	0.029	0.019	0.000	0.435
	Left	0.941	0.000	0.232	0.015	0.039	0.000	1.227

Table 11-51
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.548	0.267	0.195	0.103	0.032	1.585*
	Top	0.007	0.424	0.004	0.008	0.002	0.000	0.445
	Bottom	0.257	0.014	0.064	0.229	0.000	0.000	0.564
	Right	0.001	1.065	0.000	0.019	1.072	0.000	1.092*
	Left	0.941	0.000	0.232	0.039	0.027	0.000	1.239

Table 11-52
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.216	0.479	0.103	0.582	0.032	1.504*
	Top	0.019	0.153	0.004	0.002	1.078	0.000	1.256
	Bottom	0.986	0.014	0.117	0.000	0.000	0.000	1.117
	Right	0.036	0.386	0.000	1.072	0.029	0.000	1.523
	Left	0.064	0.000	0.425	0.027	0.015	0.000	0.531

Table 11-53
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.216	0.267	0.582	0.195	0.032	1.487*
	Top	0.019	0.153	0.004	1.078	0.008	0.000	1.262
	Bottom	0.986	0.014	0.064	0.000	0.229	0.000	1.293
	Right	0.036	0.386	0.000	0.029	0.019	0.000	0.470
	Left	0.064	0.000	0.232	0.015	0.039	0.000	0.350

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-54
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.548	0.267	0.195	0.103	0.032	1.590*
	Top	0.019	0.424	0.004	0.008	0.002	0.000	0.457
	Bottom	0.986	0.014	0.064	0.229	0.000	0.000	1.293
	Right	0.036	1.065	0.000	0.019	1.072	0.000	1.127*
	Left	0.064	0.000	0.232	0.039	0.027	0.000	0.362

Table 11-55
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.216	1.087	0.103	0.582	0.032	1.222*
	Top	0.048	0.153	0.004	0.002	1.078	0.000	1.285
	Bottom	0.953	0.014	0.328	0.000	0.000	0.000	1.295
	Right	0.993	0.386	0.000	1.072	0.029	0.000	1.487*
	Left	0.059	0.000	0.965	0.027	0.015	0.000	1.066

Table 11-56
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.216	0.479	0.582	0.706	0.032	1.217*
	Top	0.048	0.153	0.004	1.078	0.008	0.000	1.291
	Bottom	0.953	0.014	0.117	0.000	1.049	0.000	1.18*
	Right	0.993	0.386	0.000	0.029	0.019	0.000	1.427
	Left	0.059	0.000	0.425	0.015	0.039	0.000	0.538

Table 11-57
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.548	0.479	0.706	0.103	0.032	1.57*
	Top	0.048	0.424	0.004	0.008	0.002	0.000	0.486
	Bottom	0.953	0.014	0.117	1.049	0.000	0.000	1.18*
	Right	0.993	1.065	0.000	0.019	1.072	0.000	1.091*
	Left	0.059	0.000	0.425	0.039	0.027	0.000	0.550

Table 11-58
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.486	0.113	1.087	0.025	0.119	0.032	1.144*
	Top	0.289	0.076	0.004	0.002	0.184	0.000	0.555
	Bottom	0.008	0.014	0.328	0.000	0.000	0.000	0.350
	Right	0.990	0.200	0.000	0.200	0.029	0.000	1.419
	Left	0.000	0.000	0.965	0.027	0.015	0.000	1.007

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-59
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.486	0.113	0.479	0.119	0.706	0.032	1.217*
	Top	0.289	0.076	0.004	0.184	0.008	0.000	0.561
	Bottom	0.008	0.014	0.117	0.000	1.049	0.000	1.188
	Right	0.990	0.200	0.000	0.029	0.019	0.000	1.238
	Left	0.000	0.000	0.425	0.015	0.039	0.000	0.479

Table 11-60
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.486	0.216	0.479	0.706	0.025	0.032	1.242*
	Top	0.289	0.153	0.004	0.008	0.002	0.000	0.456
	Bottom	0.008	0.014	0.117	1.049	0.000	0.000	1.188
	Right	0.990	0.386	0.000	0.019	0.200	0.000	1.576*
	Left	0.000	0.000	0.425	0.039	0.027	0.000	0.491

Table 11-61
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.780	0.113	1.087	0.025	0.119	0.032	1.144*
	Top	0.994	0.076	0.004	0.002	0.184	0.000	1.260
	Bottom	0.017	0.014	0.328	0.000	0.000	0.000	0.359
	Right	0.115	0.200	0.000	0.200	0.029	0.000	0.544
	Left	0.059	0.000	0.965	0.027	0.015	0.000	1.066

Table 11-62
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.780	0.113	0.479	0.119	0.706	0.032	1.217*
	Top	0.994	0.076	0.004	0.184	0.008	0.000	1.266
	Bottom	0.017	0.014	0.117	0.000	1.049	0.000	1.197
	Right	0.115	0.200	0.000	0.029	0.019	0.000	0.363
	Left	0.059	0.000	0.425	0.015	0.039	0.000	0.538

Table 11-63
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.780	0.216	0.479	0.706	0.025	0.032	1.242*
	Top	0.994	0.153	0.004	0.008	0.002	0.000	1.161
	Bottom	0.017	0.014	0.117	1.049	0.000	0.000	1.197
	Right	0.115	0.386	0.000	0.019	0.200	0.000	0.720
	Left	0.059	0.000	0.425	0.039	0.027	0.000	0.550

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-64
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.994	0.216	1.087	0.103	0.582	0.032	1.222*
	Top	0.925	0.153	0.004	0.002	1.078	0.000	1.237*
	Bottom	0.047	0.014	0.328	0.000	0.000	0.000	0.389
	Right	0.060	0.386	0.000	1.072	0.029	0.000	1.547
	Left	0.982	0.000	0.965	0.027	0.015	0.000	1.024*

Table 11-65
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.994	0.216	0.479	0.582	0.706	0.032	1.217*
	Top	0.925	0.153	0.004	1.078	0.008	0.000	1.243*
	Bottom	0.047	0.014	0.117	0.000	1.049	0.000	1.227
	Right	0.060	0.386	0.000	0.029	0.019	0.000	0.494
	Left	0.982	0.000	0.425	0.015	0.039	0.000	1.461

Table 11-66
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5+6
Body SAR	Back	0.994	0.548	0.479	0.706	0.103	1.574*
	Top	0.925	0.424	0.004	0.008	0.002	1.363
	Bottom	0.047	0.014	0.117	1.049	0.000	1.227
	Right	0.060	1.065	0.000	0.019	1.072	1.151*
	Left	0.982	0.000	0.425	0.039	0.027	1.473

Table 11-67
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.548	0.479	0.079	0.032	1.578*
	Top	0.007	0.424	0.004	0.004	0.000	0.439
	Bottom	0.257	0.014	0.117	0.000	0.000	0.388
	Right	0.001	1.065	0.000	1.086	0.000	1.087*
	Left	0.941	0.000	0.425	0.013	0.000	1.379

Table 11-68
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.548	0.479	0.079	0.032	1.583*
	Top	0.019	0.424	0.004	0.004	0.000	0.451
	Bottom	0.986	0.014	0.117	0.000	0.000	1.117
	Right	0.036	1.065	0.000	1.086	0.000	1.122*
	Left	0.064	0.000	0.425	0.013	0.000	0.502

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-69
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.548	1.087	0.079	0.032	1.57*
	Top	0.048	0.424	0.004	0.004	0.000	0.480
	Bottom	0.953	0.014	0.328	0.000	0.000	1.295
	Right	0.993	1.065	0.000	1.086	0.000	1.086*
	Left	0.059	0.000	0.965	0.013	0.000	1.037

Table 11-70
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.216	1.087	0.079	0.032	1.198*
	Top	0.289	0.153	0.004	0.004	0.000	0.450
	Bottom	0.008	0.014	0.328	0.000	0.000	0.350
	Right	0.990	0.386	0.000	0.228	0.000	1.376*
	Left	0.000	0.000	0.965	0.013	0.000	0.978

Table 11-71
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.216	1.087	0.079	0.032	1.198*
	Top	0.994	0.153	0.004	0.004	0.000	1.155
	Bottom	0.017	0.014	0.328	0.000	0.000	0.359
	Right	0.115	0.386	0.000	0.228	0.000	0.729
	Left	0.059	0.000	0.965	0.013	0.000	1.037

Table 11-72
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.548	1.087	0.079	0.032	1.574*
	Top	0.925	0.424	0.004	0.004	0.000	1.357
	Bottom	0.047	0.014	0.328	0.000	0.000	0.389
	Right	0.060	1.065	0.000	1.086	0.000	1.146*
	Left	0.982	0.000	0.965	0.013	0.000	0.995*

Table 11-73
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.548	0.479	0.103	0.032	1.499*
	Top	0.007	0.424	0.004	0.002	0.000	0.437
	Bottom	0.257	0.014	0.117	0.000	0.000	0.388
	Right	0.001	1.065	0.000	1.072	0.000	1.073*
	Left	0.941	0.000	0.425	0.027	0.000	1.393

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-74
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.548	0.479	0.103	0.032	1.504*
	Top	0.019	0.424	0.004	0.002	0.000	0.449
	Bottom	0.986	0.014	0.117	0.000	0.000	1.117
	Right	0.036	1.065	0.000	1.072	0.000	1.108*
	Left	0.064	0.000	0.425	0.027	0.000	0.516

Table 11-75
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.548	1.087	0.103	0.032	1.57*
	Top	0.048	0.424	0.004	0.002	0.000	0.478
	Bottom	0.953	0.014	0.328	0.000	0.000	1.295
	Right	0.993	1.065	0.000	1.072	0.000	1.072*
	Left	0.059	0.000	0.965	0.027	0.000	1.051

Table 11-76
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.216	1.087	0.025	0.032	1.144*
	Top	0.289	0.153	0.004	0.002	0.000	0.448
	Bottom	0.008	0.014	0.328	0.000	0.000	0.350
	Right	0.990	0.386	0.000	0.200	0.000	1.576
	Left	0.000	0.000	0.965	0.027	0.000	0.992

Table 11-77
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.216	1.087	0.025	0.032	1.144*
	Top	0.994	0.153	0.004	0.002	0.000	1.153
	Bottom	0.017	0.014	0.328	0.000	0.000	0.359
	Right	0.115	0.386	0.000	0.200	0.000	0.701
	Left	0.059	0.000	0.965	0.027	0.000	1.051

Table 11-78
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.548	1.087	0.103	0.032	1.574*
	Top	0.925	0.424	0.004	0.002	0.000	1.355
	Bottom	0.047	0.014	0.328	0.000	0.000	0.389
	Right	0.060	1.065	0.000	1.072	0.000	1.132*
	Left	0.982	0.000	0.965	0.027	0.000	1.009*

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-79
Cellular Band Ant 1a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	NB U-NII Ant 5T with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.029	0.259	0.328	0.332	0.032	1.381*
	Top	0.007	0.000	0.322	0.292	0.012	0.000	0.633
	Bottom	0.257	0.000	0.000	0.009	0.086	0.000	0.352
	Right	0.001	0.288	0.051	1.063	0.000	0.000	1.403
	Left	0.941	0.000	0.014	0.000	0.244	0.000	1.199

Table 11-80
Cellular Band Ant 1b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	NB U-NII Ant 5T with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.029	0.259	0.328	0.332	0.032	1.386*
	Top	0.019	0.000	0.322	0.292	0.012	0.000	0.645
	Bottom	0.986	0.000	0.000	0.009	0.086	0.000	1.081
	Right	0.036	0.288	0.051	1.063	0.000	0.000	1.438
	Left	0.064	0.000	0.014	0.000	0.244	0.000	0.322

Table 11-81
Cellular Band Ant 2 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	NB U-NII Ant 5T with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.029	0.259	0.328	1.087	0.032	1.148*
	Top	0.048	0.000	0.322	0.292	0.012	0.000	0.674
	Bottom	0.953	0.000	0.000	0.009	0.321	0.000	1.283
	Right	0.993	0.288	0.051	1.063	0.000	0.000	1.402*
	Left	0.059	0.000	0.014	0.000	0.999	0.000	1.072

Table 11-82
Cellular Band Ant 3a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	NB U-NII Ant 5T with 7 dB backoff SAR (W/kg)	NB U-NII Ant 3b with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.486	0.029	0.106	0.080	1.087	0.032	1.148*
	Top	0.289	0.000	0.133	0.069	0.012	0.000	0.503
	Bottom	0.008	0.000	0.000	0.009	0.321	0.000	0.338
	Right	0.990	0.209	0.051	0.226	0.000	0.000	1.476
	Left	0.000	0.000	0.014	0.000	0.999	0.000	1.013

Table 11-83
Cellular Band Ant 3b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	NB U-NII Ant 5T with 7 dB backoff SAR (W/kg)	NB U-NII Ant 3b with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.780	0.029	0.106	0.080	1.087	0.032	1.148*
	Top	0.994	0.000	0.133	0.069	0.012	0.000	1.208
	Bottom	0.017	0.000	0.000	0.009	0.321	0.000	0.347
	Right	0.115	0.209	0.051	0.226	0.000	0.000	0.601
	Left	0.059	0.000	0.014	0.000	0.999	0.000	1.072

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-84
Cellular Band Ant 4 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	NB U-NII Ant 5T with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5+6
Body SAR	Back	0.994	0.029	0.259	0.328	1.087	1.148*
	Top	0.925	0.000	0.322	0.292	0.012	1.551
	Bottom	0.047	0.000	0.000	0.009	0.321	0.377
	Right	0.060	0.288	0.051	1.063	0.000	1.462
	Left	0.982	0.000	0.014	0.000	0.999	1.013*

Table 11-85
Cellular Band Ant 1a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	NB U-NII Ant 5T with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3b SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.029	0.833	0.332	0.032	1.381*
	Top	0.007	0.000	1.090	0.012	0.000	1.109
	Bottom	0.257	0.000	0.000	0.086	0.000	0.343
	Right	0.001	0.288	0.051	0.000	0.000	0.340
	Left	0.941	0.000	0.014	0.244	0.000	1.199

Table 11-86
Cellular Band Ant 1b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	NB U-NII Ant 5T with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3b SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.029	0.833	0.332	0.032	1.386*
	Top	0.019	0.000	1.090	0.012	0.000	1.121
	Bottom	0.986	0.000	0.000	0.086	0.000	1.072
	Right	0.036	0.288	0.051	0.000	0.000	0.375
	Left	0.064	0.000	0.014	0.244	0.000	0.322

Table 11-87
Cellular Band Ant 2 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	NB U-NII Ant 5T with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3b SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.029	0.833	1.087	0.032	1.148*
	Top	0.048	0.000	1.090	0.012	0.000	1.150
	Bottom	0.953	0.000	0.000	0.321	0.000	1.274
	Right	0.993	0.288	0.051	0.000	0.000	1.332
	Left	0.059	0.000	0.014	0.999	0.000	1.072

Table 11-88
Cellular Band Ant 3a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	NB U-NII Ant 5T with 7 dB backoff SAR (W/kg)	NB U-NII Ant 3b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.029	0.259	1.087	0.032	1.148*
	Top	0.289	0.000	0.322	0.012	0.000	0.623
	Bottom	0.008	0.000	0.000	0.321	0.000	0.329
	Right	0.990	0.209	0.051	0.000	0.000	1.250
	Left	0.000	0.000	0.014	0.999	0.000	1.013

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-89
Cellular Band Ant 3b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	NB U-NII Ant 5T with 7 dB backoff SAR (W/kg)	NB U-NII Ant 3b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.029	0.259	1.087	0.032	1.148*
	Top	0.994	0.000	0.322	0.012	0.000	1.328
	Bottom	0.017	0.000	0.000	0.321	0.000	0.338
	Right	0.115	0.209	0.051	0.000	0.000	0.375
	Left	0.059	0.000	0.014	0.999	0.000	1.072

Table 11-90
Cellular Band Ant 4 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	NB U-NII Ant 5T with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3b SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.029	0.833	1.087	0.032	1.148*
	Top	0.925	0.000	1.090	0.012	0.000	1.102*
	Bottom	0.047	0.000	0.000	0.321	0.000	0.368
	Right	0.060	0.288	0.051	0.000	0.000	0.399
	Left	0.982	0.000	0.014	0.999	0.000	1.013*

Table 11-91
Cellular Band Ant 1a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	NB U-NII Ant 1b with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.158	0.328	0.332	0.032	1.51*
	Top	0.007	0.000	0.292	0.012	0.000	0.311
	Bottom	0.257	0.134	0.009	0.086	0.000	0.486
	Right	0.001	0.010	1.063	0.000	0.000	1.074
	Left	0.941	0.031	0.000	0.244	0.000	1.216

Table 11-92
Cellular Band Ant 1b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	NB U-NII Ant 1b with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.158	0.328	0.332	0.032	1.515*
	Top	0.019	0.000	0.292	0.012	0.000	0.323
	Bottom	0.986	0.134	0.009	0.086	0.000	1.215
	Right	0.036	0.010	1.063	0.000	0.000	1.109
	Left	0.064	0.031	0.000	0.244	0.000	0.339

Table 11-93
Cellular Band Ant 2 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	NB U-NII Ant 1b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.283	0.328	1.087	0.032	1.402*
	Top	0.048	0.000	0.292	0.012	0.000	0.352
	Bottom	0.953	0.260	0.009	0.321	0.000	1.543
	Right	0.993	0.010	1.063	0.000	0.000	1.073*
	Left	0.059	0.031	0.000	0.999	0.000	1.089

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-94
Cellular Band Ant 3a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	NB U-NII Ant 1b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.283	0.080	1.087	0.032	1.402*
	Top	0.289	0.000	0.069	0.012	0.000	0.370
	Bottom	0.008	0.260	0.009	0.321	0.000	0.598
	Right	0.990	0.010	0.226	0.000	0.000	1.226
	Left	0.000	0.031	0.000	0.999	0.000	1.030

Table 11-95
Cellular Band Ant 3b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	NB U-NII Ant 1b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.283	0.080	1.087	0.032	1.402*
	Top	0.994	0.000	0.069	0.012	0.000	1.075
	Bottom	0.017	0.260	0.009	0.321	0.000	0.607
	Right	0.115	0.010	0.226	0.000	0.000	0.351
	Left	0.059	0.031	0.000	0.999	0.000	1.089

Table 11-96
Cellular Band Ant 4 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	NB U-NII Ant 1b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.283	0.328	1.087	0.032	1.402*
	Top	0.925	0.000	0.292	0.012	0.000	1.229
	Bottom	0.047	0.260	0.009	0.321	0.000	0.637
	Right	0.060	0.010	1.063	0.000	0.000	1.133
	Left	0.982	0.031	0.000	0.999	0.000	1.03*

Table 11-97
Cellular Band Ant 1a Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	NB U-NII Ant 1b with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.988	0.283	0.032	1.303
	Top	0.007	0.000	0.000	0.007
	Bottom	0.257	0.260	0.000	0.517
	Right	0.001	0.010	0.000	0.011
	Left	0.941	0.031	0.000	0.972

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-98
Cellular Band Ant 1b Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	NB U-NII Ant 1b with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.993	0.283	0.032	1.308
	Top	0.019	0.000	0.000	0.019
	Bottom	0.986	0.260	0.000	1.246
	Right	0.036	0.010	0.000	0.046
	Left	0.064	0.031	0.000	0.095

Table 11-99
Cellular Band Ant 2 Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	NB U-NII Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.990	1.086	0.032	1.118*
	Top	0.048	0.000	0.000	0.048
	Bottom	0.953	0.908	0.000	0.953*
	Right	0.993	0.010	0.000	1.003
	Left	0.059	0.031	0.000	0.090

Table 11-100
Cellular Band Ant 3a Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	NB U-NII Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.486	1.086	0.032	1.118*
	Top	0.289	0.000	0.000	0.289
	Bottom	0.008	0.908	0.000	0.916
	Right	0.990	0.010	0.000	1.000
	Left	0.000	0.031	0.000	0.031

Table 11-101
Cellular Band Ant 3b Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	NB U-NII Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.780	1.086	0.032	1.118*
	Top	0.994	0.000	0.000	0.994
	Bottom	0.017	0.908	0.000	0.925
	Right	0.115	0.010	0.000	0.125
	Left	0.059	0.031	0.000	0.090

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-102
Cellular Band Ant 4 Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	NB U-NII Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.994	1.086	0.032	1.118*
	Top	0.925	0.000	0.000	0.925
	Bottom	0.047	0.908	0.000	0.955
	Right	0.060	0.010	0.000	0.070
	Left	0.982	0.031	0.000	1.013

Table 11-103
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	0.328	0.479	0.032	1.499*
	Top	0.007	0.292	0.004	0.000	0.303
	Bottom	0.257	0.009	0.117	0.000	0.383
	Right	0.001	1.063	0.000	0.000	1.064
	Left	0.941	0.000	0.425	0.000	1.366

Table 11-104
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.328	0.479	0.032	1.504*
	Top	0.019	0.292	0.004	0.000	0.315
	Bottom	0.986	0.009	0.117	0.000	1.112
	Right	0.036	1.063	0.000	0.000	1.099
	Left	0.064	0.000	0.425	0.000	0.489

Table 11-105
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.328	1.087	0.032	1.447*
	Top	0.048	0.292	0.004	0.000	0.344
	Bottom	0.953	0.009	0.328	0.000	1.290
	Right	0.993	1.063	0.000	0.000	1.063*
	Left	0.059	0.000	0.965	0.000	1.024

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-106
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.486	0.080	1.087	0.032	1.119*
	Top	0.289	0.069	0.004	0.000	0.362
	Bottom	0.008	0.009	0.328	0.000	0.345
	Right	0.990	0.226	0.000	0.000	1.216
	Left	0.000	0.000	0.965	0.000	0.965

Table 11-107
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.780	0.080	1.087	0.032	1.119*
	Top	0.994	0.069	0.004	0.000	1.067
	Bottom	0.017	0.009	0.328	0.000	0.354
	Right	0.115	0.226	0.000	0.000	0.341
	Left	0.059	0.000	0.965	0.000	1.024

Table 11-108
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	0.328	1.087	0.032	1.447*
	Top	0.925	0.292	0.004	0.000	1.221
	Bottom	0.047	0.009	0.328	0.000	0.384
	Right	0.060	1.063	0.000	0.000	1.123
	Left	0.982	0.000	0.965	0.000	0.982*

Table 11-109
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	0.328	0.268	0.032	1.288*
	Top	0.007	0.292	0.029	0.000	0.328
	Bottom	0.257	0.009	0.089	0.000	0.355
	Right	0.001	1.063	0.005	0.000	1.069
	Left	0.941	0.000	0.240	0.000	1.181

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-110
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.328	0.268	0.032	1.293*
	Top	0.019	0.292	0.029	0.000	0.340
	Bottom	0.986	0.009	0.089	0.000	1.084
	Right	0.036	1.063	0.005	0.000	1.104
	Left	0.064	0.000	0.240	0.000	0.304

Table 11-111
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.328	1.059	0.032	1.419*
	Top	0.048	0.292	0.029	0.000	0.369
	Bottom	0.953	0.009	0.338	0.000	1.300
	Right	0.993	1.063	0.005	0.000	1.068*
	Left	0.059	0.000	0.773	0.000	0.832

Table 11-112
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.486	0.080	1.059	0.032	1.091*
	Top	0.289	0.069	0.029	0.000	0.387
	Bottom	0.008	0.009	0.338	0.000	0.355
	Right	0.990	0.226	0.005	0.000	1.221
	Left	0.000	0.000	0.773	0.000	0.773

Table 11-113
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.780	0.080	1.059	0.032	1.091*
	Top	0.994	0.069	0.029	0.000	1.092
	Bottom	0.017	0.009	0.338	0.000	0.364
	Right	0.115	0.226	0.005	0.000	0.346
	Left	0.059	0.000	0.773	0.000	0.832

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-114
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	0.328	1.059	0.032	1.419*
	Top	0.925	0.292	0.029	0.000	1.246
	Bottom	0.047	0.009	0.338	0.000	0.394
	Right	0.060	1.063	0.005	0.000	1.128
	Left	0.982	0.000	0.773	0.000	0.982*

Table 11-115
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.152	0.079	0.534	0.032	1.099*
	Top	0.007	0.130	0.004	1.089	0.000	1.230
	Bottom	0.257	0.009	0.000	0.000	0.000	0.266
	Right	0.001	0.385	1.086	0.033	0.000	1.505
	Left	0.941	0.000	0.013	0.018	0.000	0.972

Table 11-116
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.268	0.079	0.534	0.032	1.367*
	Top	0.007	0.029	0.004	1.089	0.000	1.129
	Bottom	0.257	0.089	0.000	0.000	0.000	0.346
	Right	0.001	0.005	1.086	0.033	0.000	1.125
	Left	0.941	0.240	0.013	0.018	0.000	1.212

Table 11-117
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.152	0.534	0.249	0.032	1.269*
	Top	0.007	0.130	1.089	0.000	0.000	1.226
	Bottom	0.257	0.009	0.000	0.237	0.000	0.503
	Right	0.001	0.385	0.033	0.020	0.000	0.439
	Left	0.941	0.000	0.018	0.051	0.000	1.010

Table 11-118
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.162	0.534	0.249	0.032	1.431*
	Top	0.007	0.029	1.089	0.000	0.000	1.125
	Bottom	0.257	0.052	0.000	0.237	0.000	0.546
	Right	0.001	0.005	0.033	0.020	0.000	0.059
	Left	0.941	0.137	0.018	0.051	0.000	1.147

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-119
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.360	0.249	0.079	0.032	1.348*
	Top	0.007	0.310	0.000	0.004	0.000	0.321
	Bottom	0.257	0.009	0.237	0.000	0.000	0.503
	Right	0.001	1.061	0.020	1.086	0.000	1.107*
	Left	0.941	0.000	0.051	0.013	0.000	1.005

Table 11-120
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.162	0.249	0.079	0.032	1.510
	Top	0.007	0.029	0.000	0.004	0.000	0.040
	Bottom	0.257	0.052	0.237	0.000	0.000	0.546
	Right	0.001	0.005	0.020	1.086	0.000	1.112
	Left	0.941	0.137	0.051	0.013	0.000	1.142

Table 11-121
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.152	0.079	0.534	0.032	1.104*
	Top	0.019	0.130	0.004	1.089	0.000	1.242
	Bottom	0.986	0.009	0.000	0.000	0.000	0.995
	Right	0.036	0.385	1.086	0.033	0.000	1.540
	Left	0.064	0.000	0.013	0.018	0.000	0.095

Table 11-122
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.268	0.079	0.534	0.032	1.372*
	Top	0.019	0.029	0.004	1.089	0.000	1.141
	Bottom	0.986	0.089	0.000	0.000	0.000	1.075
	Right	0.036	0.005	1.086	0.033	0.000	1.160
	Left	0.064	0.240	0.013	0.018	0.000	0.335

Table 11-123
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.152	0.534	0.249	0.032	1.274*
	Top	0.019	0.130	1.089	0.000	0.000	1.238
	Bottom	0.986	0.009	0.000	0.237	0.000	1.232
	Right	0.036	0.385	0.033	0.020	0.000	0.474
	Left	0.064	0.000	0.018	0.051	0.000	0.133

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-124
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.162	0.534	0.249	0.032	1.436*
	Top	0.019	0.029	1.089	0.000	0.000	1.137
	Bottom	0.986	0.052	0.000	0.237	0.000	1.275
	Right	0.036	0.005	0.033	0.020	0.000	0.094
	Left	0.064	0.137	0.018	0.051	0.000	0.270

Table 11-125
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.360	0.249	0.079	0.032	1.353*
	Top	0.019	0.310	0.000	0.004	0.000	0.333
	Bottom	0.986	0.009	0.237	0.000	0.000	1.232
	Right	0.036	1.061	0.020	1.086	0.000	1.142*
	Left	0.064	0.000	0.051	0.013	0.000	0.128

Table 11-126
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.162	0.249	0.079	0.032	1.515
	Top	0.019	0.029	0.000	0.004	0.000	0.052
	Bottom	0.986	0.052	0.237	0.000	0.000	1.275
	Right	0.036	0.005	0.020	1.086	0.000	1.147
	Left	0.064	0.137	0.051	0.013	0.000	0.265

Table 11-127
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.152	0.079	0.534	0.032	1.101*
	Top	0.048	0.130	0.004	1.089	0.000	1.271
	Bottom	0.953	0.009	0.000	0.000	0.000	0.962
	Right	0.993	0.385	1.086	0.033	0.000	1.504*
	Left	0.059	0.000	0.013	0.018	0.000	0.090

Table 11-128
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	1.059	0.079	0.534	0.032	1.556*
	Top	0.048	0.029	0.004	1.089	0.000	1.170
	Bottom	0.953	0.338	0.000	0.000	0.000	1.291
	Right	0.993	0.005	1.086	0.033	0.000	1.124*
	Left	0.059	0.773	0.013	0.018	0.000	0.863

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-129
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.152	0.534	1.070	0.032	1.102*
	Top	0.048	0.130	1.089	0.000	0.000	1.267
	Bottom	0.953	0.009	0.000	0.922	0.000	0.962*
	Right	0.993	0.385	0.033	0.020	0.000	1.431
	Left	0.059	0.000	0.018	0.051	0.000	0.128

Table 11-130
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.268	0.534	1.070	0.032	1.556*
	Top	0.048	0.029	1.089	0.000	0.000	1.166
	Bottom	0.953	0.089	0.000	0.922	0.000	1.011*
	Right	0.993	0.005	0.033	0.020	0.000	1.051
	Left	0.059	0.240	0.018	0.051	0.000	0.368

Table 11-131
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.360	1.070	0.079	0.032	1.541*
	Top	0.048	0.310	0.000	0.004	0.000	0.362
	Bottom	0.953	0.009	0.922	0.000	0.000	0.962*
	Right	0.993	1.061	0.020	1.086	0.000	1.106*
	Left	0.059	0.000	0.051	0.013	0.000	0.123

Table 11-132
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.268	1.070	0.079	0.032	1.449*
	Top	0.048	0.029	0.000	0.004	0.000	0.081
	Bottom	0.953	0.089	0.922	0.000	0.000	1.011*
	Right	0.993	0.005	0.020	1.086	0.000	1.111*
	Left	0.059	0.240	0.051	0.013	0.000	0.363

Table 11-133
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.061	0.079	0.162	0.032	0.820
	Top	0.289	0.057	0.004	0.265	0.000	0.615
	Bottom	0.008	0.009	0.000	0.000	0.000	0.017
	Right	0.990	0.158	0.228	0.033	0.000	1.409
	Left	0.000	0.000	0.013	0.018	0.000	0.031

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-134
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	1.059	0.079	0.162	0.032	1.17*
	Top	0.289	0.029	0.004	0.265	0.000	0.587
	Bottom	0.008	0.338	0.000	0.000	0.000	0.346
	Right	0.990	0.005	0.228	0.033	0.000	1.256
	Left	0.000	0.773	0.013	0.018	0.000	0.804

Table 11-135
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.061	0.162	1.070	0.032	1.102*
	Top	0.289	0.057	0.265	0.000	0.000	0.611
	Bottom	0.008	0.009	0.000	0.922	0.000	0.939
	Right	0.990	0.158	0.033	0.020	0.000	1.201
	Left	0.000	0.000	0.018	0.051	0.000	0.069

Table 11-136
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.268	0.162	1.070	0.032	1.37*
	Top	0.289	0.029	0.265	0.000	0.000	0.583
	Bottom	0.008	0.089	0.000	0.922	0.000	1.019
	Right	0.990	0.005	0.033	0.020	0.000	1.048
	Left	0.000	0.240	0.018	0.051	0.000	0.309

Table 11-137
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.152	1.070	0.079	0.032	1.181*
	Top	0.289	0.130	0.000	0.004	0.000	0.423
	Bottom	0.008	0.009	0.922	0.000	0.000	0.939
	Right	0.990	0.385	0.020	0.228	0.000	1.395*
	Left	0.000	0.000	0.051	0.013	0.000	0.064

Table 11-138
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.268	1.070	0.079	0.032	1.449*
	Top	0.289	0.029	0.000	0.004	0.000	0.322
	Bottom	0.008	0.089	0.922	0.000	0.000	1.019
	Right	0.990	0.005	0.020	0.228	0.000	1.243
	Left	0.000	0.240	0.051	0.013	0.000	0.304

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-139
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.061	0.079	0.162	0.032	1.114
	Top	0.994	0.057	0.004	0.265	0.000	1.320
	Bottom	0.017	0.009	0.000	0.000	0.000	0.026
	Right	0.115	0.158	0.228	0.033	0.000	0.534
	Left	0.059	0.000	0.013	0.018	0.000	0.090

Table 11-140
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	1.059	0.079	0.162	0.032	1.17*
	Top	0.994	0.029	0.004	0.265	0.000	1.292
	Bottom	0.017	0.338	0.000	0.000	0.000	0.355
	Right	0.115	0.005	0.228	0.033	0.000	0.381
	Left	0.059	0.773	0.013	0.018	0.000	0.863

Table 11-141
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.061	0.162	1.070	0.032	1.102*
	Top	0.994	0.057	0.265	0.000	0.000	1.316
	Bottom	0.017	0.009	0.000	0.922	0.000	0.948
	Right	0.115	0.158	0.033	0.020	0.000	0.326
	Left	0.059	0.000	0.018	0.051	0.000	0.128

Table 11-142
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.268	0.162	1.070	0.032	1.37*
	Top	0.994	0.029	0.265	0.000	0.000	1.288
	Bottom	0.017	0.089	0.000	0.922	0.000	1.028
	Right	0.115	0.005	0.033	0.020	0.000	0.173
	Left	0.059	0.240	0.018	0.051	0.000	0.368

Table 11-143
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.152	1.070	0.079	0.032	1.181*
	Top	0.994	0.130	0.000	0.004	0.000	1.128
	Bottom	0.017	0.009	0.922	0.000	0.000	0.948
	Right	0.115	0.385	0.020	0.228	0.000	0.748
	Left	0.059	0.000	0.051	0.013	0.000	0.123

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-144
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.268	1.070	0.079	0.032	1.449*
	Top	0.994	0.029	0.000	0.004	0.000	1.027
	Bottom	0.017	0.089	0.922	0.000	0.000	1.028
	Right	0.115	0.005	0.020	0.228	0.000	0.368
	Left	0.059	0.240	0.051	0.013	0.000	0.363

Table 11-145
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.152	0.079	0.534	0.032	1.105*
	Top	0.925	0.130	0.004	1.089	0.000	1.223*
	Bottom	0.047	0.009	0.000	0.000	0.000	0.056
	Right	0.060	0.385	1.086	0.033	0.000	1.564
	Left	0.982	0.000	0.013	0.018	0.000	1.013

Table 11-146
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	1.059	0.079	0.534	0.032	1.56*
	Top	0.925	0.029	0.004	1.089	0.000	1.122*
	Bottom	0.047	0.338	0.000	0.000	0.000	0.385
	Right	0.060	0.005	1.086	0.033	0.000	1.184
	Left	0.982	0.773	0.013	0.018	0.000	1.013*

Table 11-147
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.152	0.534	1.070	0.032	1.102*
	Top	0.925	0.130	1.089	0.000	0.000	1.219*
	Bottom	0.047	0.009	0.000	0.922	0.000	0.978
	Right	0.060	0.385	0.033	0.020	0.000	0.498
	Left	0.982	0.000	0.018	0.051	0.000	1.051

Table 11-148
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3b SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.268	0.534	1.070	0.032	1.56*
	Top	0.925	0.029	1.089	0.000	0.000	1.118*
	Bottom	0.047	0.089	0.000	0.922	0.000	1.058
	Right	0.060	0.005	0.033	0.020	0.000	0.118
	Left	0.982	0.240	0.018	0.051	0.000	1.291

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-149
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.360	1.070	0.079	0.032	1.541*
	Top	0.925	0.310	0.000	0.004	0.000	1.239
	Bottom	0.047	0.009	0.922	0.000	0.000	0.978
	Right	0.060	1.061	0.020	1.086	0.000	1.166*
	Left	0.982	0.000	0.051	0.013	0.000	1.046

Table 11-150
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.268	1.070	0.079	0.032	1.449*
	Top	0.925	0.029	0.000	0.004	0.000	0.958
	Bottom	0.047	0.089	0.922	0.000	0.000	1.058
	Right	0.060	0.005	0.020	1.086	0.000	1.171
	Left	0.982	0.240	0.051	0.013	0.000	1.286

Table 11-151
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.152	0.103	0.582	0.032	1.123*
	Top	0.007	0.130	0.002	1.078	0.000	1.217
	Bottom	0.257	0.009	0.000	0.000	0.000	0.266
	Right	0.001	0.385	1.072	0.029	0.000	1.487
	Left	0.941	0.000	0.027	0.015	0.000	0.983

Table 11-152
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.268	0.103	0.582	0.032	1.391*
	Top	0.007	0.029	0.002	1.078	0.000	1.116
	Bottom	0.257	0.089	0.000	0.000	0.000	0.346
	Right	0.001	0.005	1.072	0.029	0.000	1.107
	Left	0.941	0.240	0.027	0.015	0.000	1.223

Table 11-153
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.152	0.582	0.195	0.032	1.215*
	Top	0.007	0.130	1.078	0.008	0.000	1.223
	Bottom	0.257	0.009	0.000	0.229	0.000	0.495
	Right	0.001	0.385	0.029	0.019	0.000	0.434
	Left	0.941	0.000	0.015	0.039	0.000	0.995

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-154
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.162	0.582	0.195	0.032	1.377*
	Top	0.007	0.029	1.078	0.008	0.000	1.122
	Bottom	0.257	0.052	0.000	0.229	0.000	0.538
	Right	0.001	0.005	0.029	0.019	0.000	0.054
	Left	0.941	0.137	0.015	0.039	0.000	1.132

Table 11-155
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.360	0.195	0.103	0.032	1.575*
	Top	0.007	0.310	0.008	0.002	0.000	0.327
	Bottom	0.257	0.009	0.229	0.000	0.000	0.495
	Right	0.001	1.061	0.019	1.072	0.000	1.092*
	Left	0.941	0.000	0.039	0.027	0.000	1.007

Table 11-156
Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.162	0.195	0.103	0.032	1.480
	Top	0.007	0.029	0.008	0.002	0.000	0.046
	Bottom	0.257	0.052	0.229	0.000	0.000	0.538
	Right	0.001	0.005	0.019	1.072	0.000	1.097
	Left	0.941	0.137	0.039	0.027	0.000	1.144

Table 11-157
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.152	0.103	0.582	0.032	1.128*
	Top	0.019	0.130	0.002	1.078	0.000	1.229
	Bottom	0.986	0.009	0.000	0.000	0.000	0.995
	Right	0.036	0.385	1.072	0.029	0.000	1.522
	Left	0.064	0.000	0.027	0.015	0.000	0.106

Table 11-158
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.268	0.103	0.582	0.032	1.396*
	Top	0.019	0.029	0.002	1.078	0.000	1.128
	Bottom	0.986	0.089	0.000	0.000	0.000	1.075
	Right	0.036	0.005	1.072	0.029	0.000	1.142
	Left	0.064	0.240	0.027	0.015	0.000	0.346

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-159
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.152	0.582	0.195	0.032	1.220*
	Top	0.019	0.130	1.078	0.008	0.000	1.235
	Bottom	0.986	0.009	0.000	0.229	0.000	1.224
	Right	0.036	0.385	0.029	0.019	0.000	0.469
	Left	0.064	0.000	0.015	0.039	0.000	0.118

Table 11-160
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.162	0.582	0.195	0.032	1.382*
	Top	0.019	0.029	1.078	0.008	0.000	1.134
	Bottom	0.986	0.052	0.000	0.229	0.000	1.267
	Right	0.036	0.005	0.029	0.019	0.000	0.089
	Left	0.064	0.137	0.015	0.039	0.000	0.255

Table 11-161
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.360	0.195	0.103	0.032	1.58*
	Top	0.019	0.310	0.008	0.002	0.000	0.339
	Bottom	0.986	0.009	0.229	0.000	0.000	1.224
	Right	0.036	1.061	0.019	1.072	0.000	1.127*
	Left	0.064	0.000	0.039	0.027	0.000	0.130

Table 11-162
Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.162	0.195	0.103	0.032	1.485
	Top	0.019	0.029	0.008	0.002	0.000	0.058
	Bottom	0.986	0.052	0.229	0.000	0.000	1.267
	Right	0.036	0.005	0.019	1.072	0.000	1.132
	Left	0.064	0.137	0.039	0.027	0.000	0.267

Table 11-163
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.152	0.103	0.582	0.032	1.125*
	Top	0.048	0.130	0.002	1.078	0.000	1.258
	Bottom	0.953	0.009	0.000	0.000	0.000	0.962
	Right	0.993	0.385	1.072	0.029	0.000	1.486*
	Left	0.059	0.000	0.027	0.015	0.000	0.101

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-164
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	1.059	0.103	0.582	0.032	1.194*
	Top	0.048	0.029	0.002	1.078	0.000	1.157
	Bottom	0.953	0.338	0.000	0.000	0.000	1.291
	Right	0.993	0.005	1.072	0.029	0.000	1.106*
	Left	0.059	0.773	0.027	0.015	0.000	0.874

Table 11-165
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.152	0.582	0.706	0.032	1.472*
	Top	0.048	0.130	1.078	0.008	0.000	1.264
	Bottom	0.953	0.009	0.000	1.049	0.000	1.058*
	Right	0.993	0.385	0.029	0.019	0.000	1.426
	Left	0.059	0.000	0.015	0.039	0.000	0.113

Table 11-166
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.268	0.582	0.706	0.032	1.588*
	Top	0.048	0.029	1.078	0.008	0.000	1.163
	Bottom	0.953	0.089	0.000	1.049	0.000	1.138*
	Right	0.993	0.005	0.029	0.019	0.000	1.046
	Left	0.059	0.240	0.015	0.039	0.000	0.353

Table 11-167
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.360	0.706	0.103	0.032	1.485*
	Top	0.048	0.310	0.008	0.002	0.000	0.368
	Bottom	0.953	0.009	1.049	0.000	0.000	1.058*
	Right	0.993	1.061	0.019	1.072	0.000	1.091*
	Left	0.059	0.000	0.039	0.027	0.000	0.125

Table 11-168
Cellular Band Ant 2 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.268	0.706	0.103	0.032	1.125*
	Top	0.048	0.029	0.008	0.002	0.000	0.087
	Bottom	0.953	0.089	1.049	0.000	0.000	1.138*
	Right	0.993	0.005	0.019	1.072	0.000	1.096*
	Left	0.059	0.240	0.039	0.027	0.000	0.365

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-169
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.061	0.025	0.119	0.032	0.723
	Top	0.289	0.057	0.002	0.184	0.000	0.532
	Bottom	0.008	0.009	0.000	0.000	0.000	0.017
	Right	0.990	0.158	0.200	0.029	0.000	1.377
	Left	0.000	0.000	0.027	0.015	0.000	0.042

Table 11-170
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	1.059	0.025	0.119	0.032	1.116*
	Top	0.289	0.029	0.002	0.184	0.000	0.504
	Bottom	0.008	0.338	0.000	0.000	0.000	0.346
	Right	0.990	0.005	0.200	0.029	0.000	1.224
	Left	0.000	0.773	0.027	0.015	0.000	0.815

Table 11-171
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.061	0.119	0.706	0.032	1.404
	Top	0.289	0.057	0.184	0.008	0.000	0.538
	Bottom	0.008	0.009	0.000	1.049	0.000	1.066
	Right	0.990	0.158	0.029	0.019	0.000	1.196
	Left	0.000	0.000	0.015	0.039	0.000	0.054

Table 11-172
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.268	0.119	0.706	0.032	1.006*
	Top	0.289	0.029	0.184	0.008	0.000	0.510
	Bottom	0.008	0.089	0.000	1.049	0.000	1.146
	Right	0.990	0.005	0.029	0.019	0.000	1.043
	Left	0.000	0.240	0.015	0.039	0.000	0.294

Table 11-173
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.152	0.706	0.025	0.032	1.401
	Top	0.289	0.130	0.008	0.002	0.000	0.429
	Bottom	0.008	0.009	1.049	0.000	0.000	1.066
	Right	0.990	0.385	0.019	0.200	0.000	1.594
	Left	0.000	0.000	0.039	0.027	0.000	0.066

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-174
Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.486	0.268	0.706	0.025	0.032	1.517
	Top	0.289	0.029	0.008	0.002	0.000	0.328
	Bottom	0.008	0.089	1.049	0.000	0.000	1.146
	Right	0.990	0.005	0.019	0.200	0.000	1.214
	Left	0.000	0.240	0.039	0.027	0.000	0.306

Table 11-175
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.061	0.025	0.119	0.032	1.017
	Top	0.994	0.057	0.002	0.184	0.000	1.237
	Bottom	0.017	0.009	0.000	0.000	0.000	0.026
	Right	0.115	0.158	0.200	0.029	0.000	0.502
	Left	0.059	0.000	0.027	0.015	0.000	0.101

Table 11-176
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	1.059	0.025	0.119	0.032	1.116*
	Top	0.994	0.029	0.002	0.184	0.000	1.209
	Bottom	0.017	0.338	0.000	0.000	0.000	0.355
	Right	0.115	0.005	0.200	0.029	0.000	0.349
	Left	0.059	0.773	0.027	0.015	0.000	0.874

Table 11-177
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.061	0.119	0.706	0.032	0.992*
	Top	0.994	0.057	0.184	0.008	0.000	1.243
	Bottom	0.017	0.009	0.000	1.049	0.000	1.075
	Right	0.115	0.158	0.029	0.019	0.000	0.321
	Left	0.059	0.000	0.015	0.039	0.000	0.113

Table 11-178
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.268	0.119	0.706	0.032	1.006*
	Top	0.994	0.029	0.184	0.008	0.000	1.215
	Bottom	0.017	0.089	0.000	1.049	0.000	1.155
	Right	0.115	0.005	0.029	0.019	0.000	0.168
	Left	0.059	0.240	0.015	0.039	0.000	0.353

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-179
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.152	0.706	0.025	0.032	0.989*
	Top	0.994	0.130	0.008	0.002	0.000	1.134
	Bottom	0.017	0.009	1.049	0.000	0.000	1.075
	Right	0.115	0.385	0.019	0.200	0.000	0.719
	Left	0.059	0.000	0.039	0.027	0.000	0.125

Table 11-180
Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.780	0.268	0.706	0.025	0.032	1.031*
	Top	0.994	0.029	0.008	0.002	0.000	1.033
	Bottom	0.017	0.089	1.049	0.000	0.000	1.155
	Right	0.115	0.005	0.019	0.200	0.000	0.339
	Left	0.059	0.240	0.039	0.027	0.000	0.365

Table 11-181
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.152	0.103	0.582	0.032	1.129*
	Top	0.925	0.130	0.002	1.078	0.000	1.21*
	Bottom	0.047	0.009	0.000	0.000	0.000	0.056
	Right	0.060	0.385	1.072	0.029	0.000	1.546
	Left	0.982	0.000	0.027	0.015	0.000	1.024

Table 11-182
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	1.059	0.103	0.582	0.032	1.194*
	Top	0.925	0.029	0.002	1.078	0.000	1.109*
	Bottom	0.047	0.338	0.000	0.000	0.000	0.385
	Right	0.060	0.005	1.072	0.029	0.000	1.166
	Left	0.982	0.773	0.027	0.015	0.000	1.024*

Table 11-183
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.152	0.582	0.706	0.032	1.472*
	Top	0.925	0.130	1.078	0.008	0.000	1.216*
	Bottom	0.047	0.009	0.000	1.049	0.000	1.105
	Right	0.060	0.385	0.029	0.019	0.000	0.493
	Left	0.982	0.000	0.015	0.039	0.000	1.036

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-184
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3b SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.268	0.582	0.706	0.032	1.588*
	Top	0.925	0.029	1.078	0.008	0.000	1.115*
	Bottom	0.047	0.089	0.000	1.049	0.000	1.185
	Right	0.060	0.005	0.029	0.019	0.000	0.113
	Left	0.982	0.240	0.015	0.039	0.000	1.276

Table 11-185
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.360	0.706	0.103	0.032	1.489*
	Top	0.925	0.310	0.008	0.002	0.000	1.245
	Bottom	0.047	0.009	1.049	0.000	0.000	1.105
	Right	0.060	1.061	0.019	1.072	0.000	1.151*
	Left	0.982	0.000	0.039	0.027	0.000	1.048

Table 11-186
Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.268	0.706	0.103	0.032	1.129*
	Top	0.925	0.029	0.008	0.002	0.000	0.964
	Bottom	0.047	0.089	1.049	0.000	0.000	1.185
	Right	0.060	0.005	0.019	1.072	0.000	1.156
	Left	0.982	0.240	0.039	0.027	0.000	1.288

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

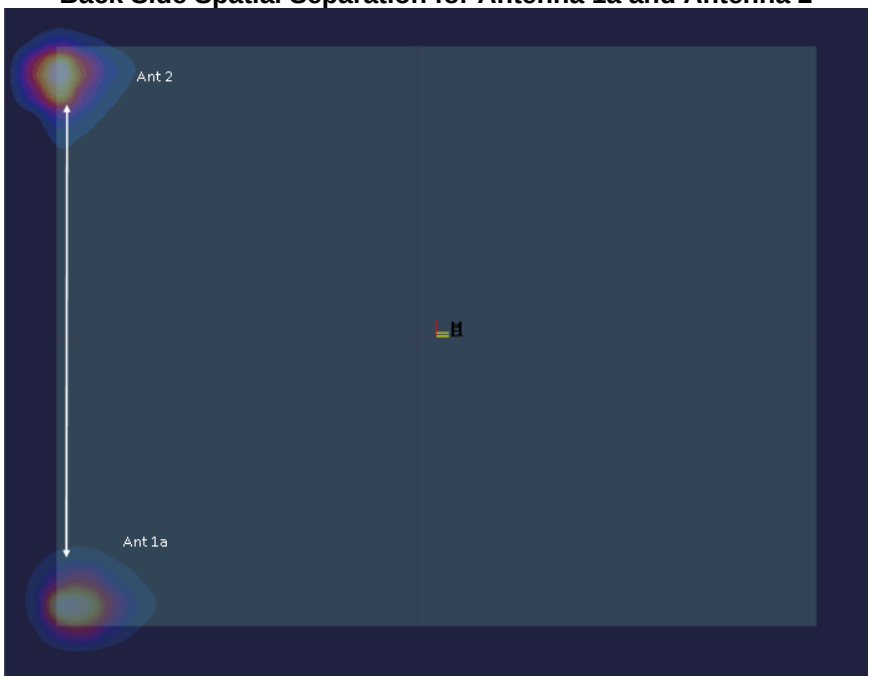
11.4 Spatial Separation Analysis

Per FCC KDB Publication 248227, antennas may be considered spatially separated when the aggregate SAR from multiple antennas at any location in the combined SAR distribution is either ≤ 1.2 W/kg where at least 90% of the SAR is attributed to a single SAR distribution or ≤ 0.4 W/kg where no more than one SAR distribution is contributing > 0.1 W/kg.

Spatial separation was determined by inspection of the area scan SAR distributions to confirm that at all locations, SAR was < 1.2 W/kg, where at least 90% of the SAR is attributed to a single SAR distribution. See below for illustrations of the spatial separated antennas considered.

11.4.1 Back Side Spatial Separation Analysis

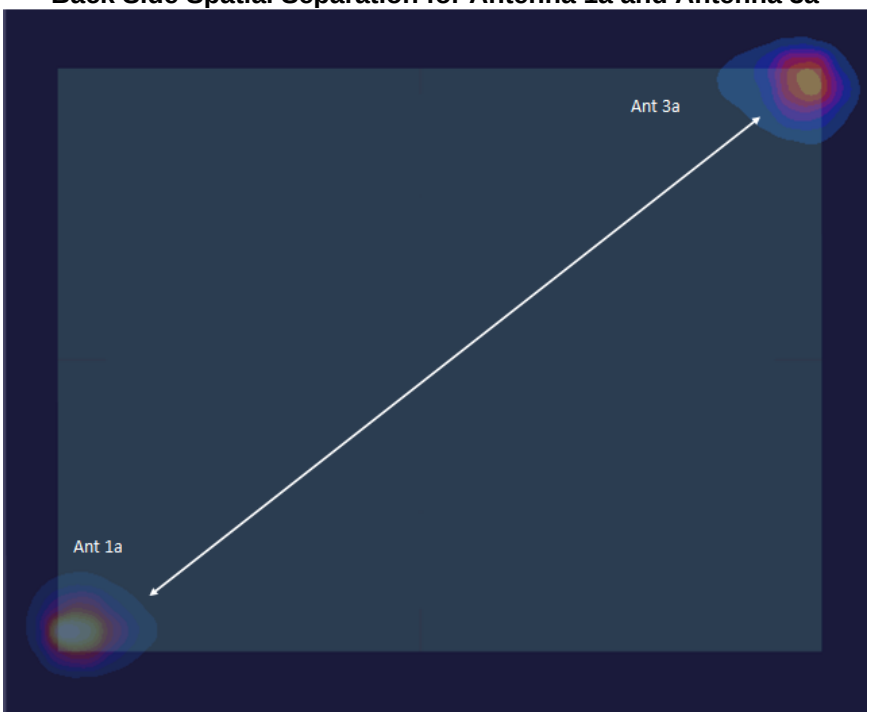
Figure 11-1
Back Side Spatial Separation for Antenna 1a and Antenna 2



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-2
Back Side Spatial Separation for Antenna 1b and Antenna 2

Figure 11-3
Back Side Spatial Separation for Antenna 1a and Antenna 3a



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-4
Back Side Spatial Separation for Antenna 1a and Antenna 3b

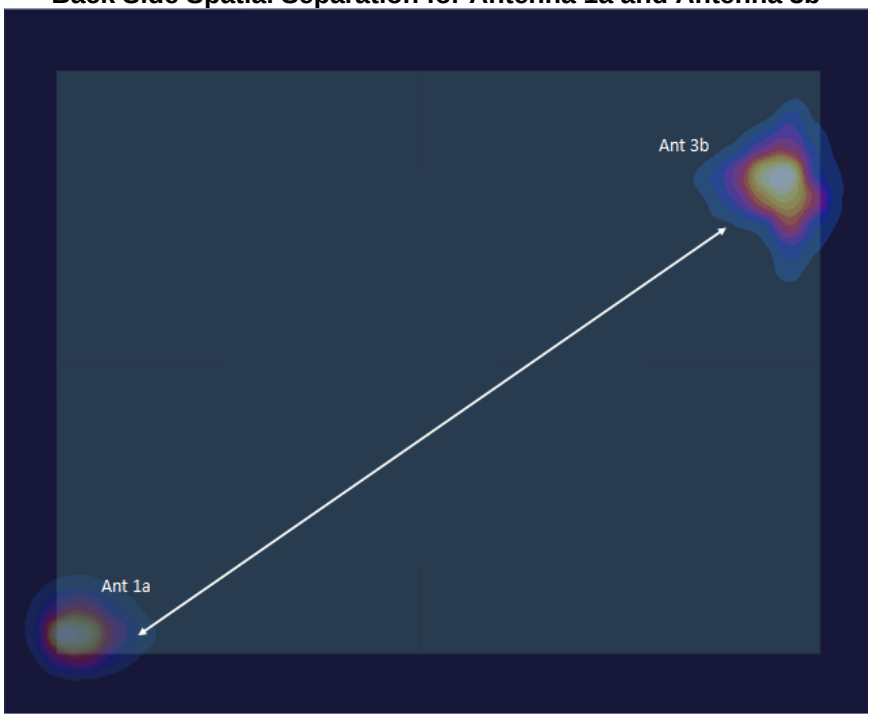
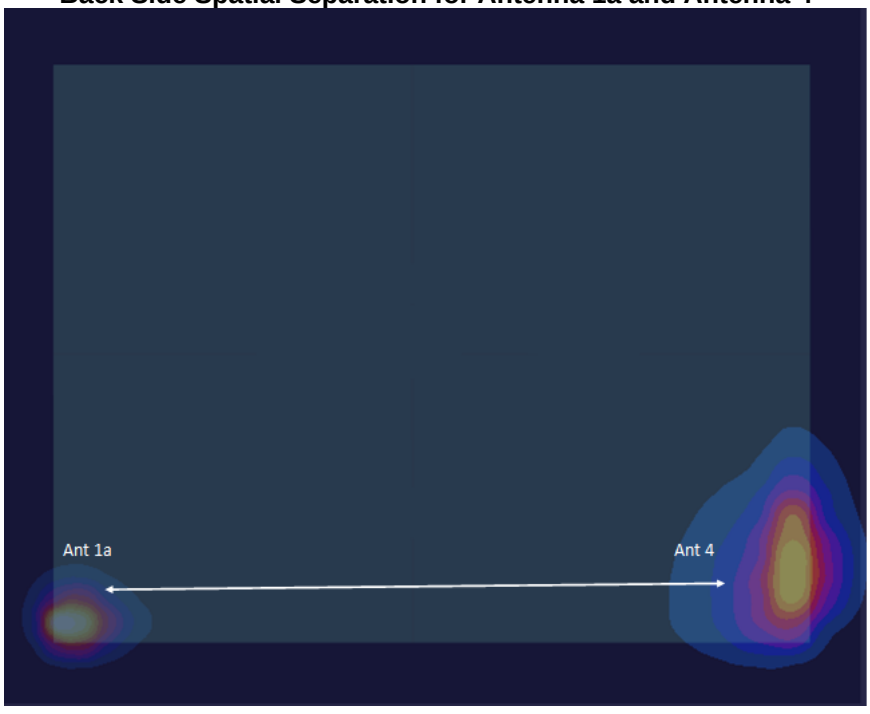


Figure 11-5
Back Side Spatial Separation for Antenna 1a and Antenna 4



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-6
Back Side Spatial Separation for Antenna 1a and Antenna 5T

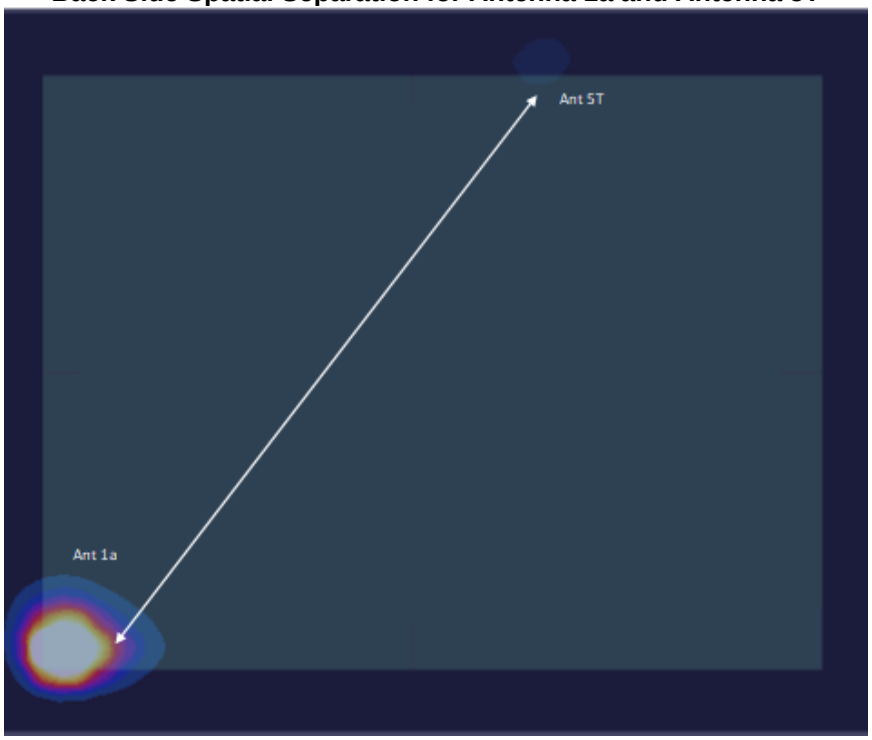
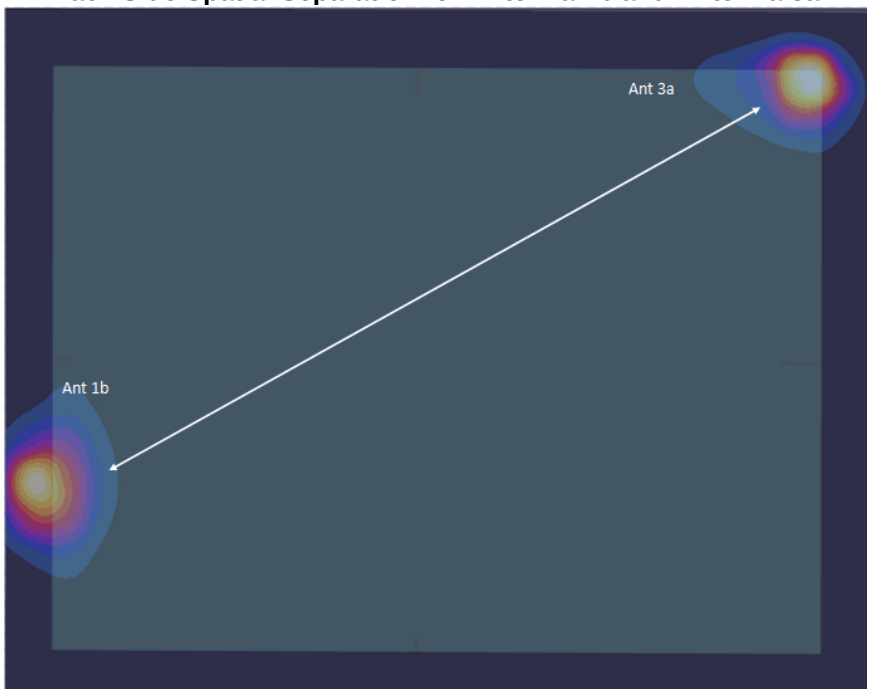


Figure 11-7
Back Side Spatial Separation for Antenna 1b and Antenna 3a



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-8
Back Side Spatial Separation for Antenna 1b and Antenna 3b

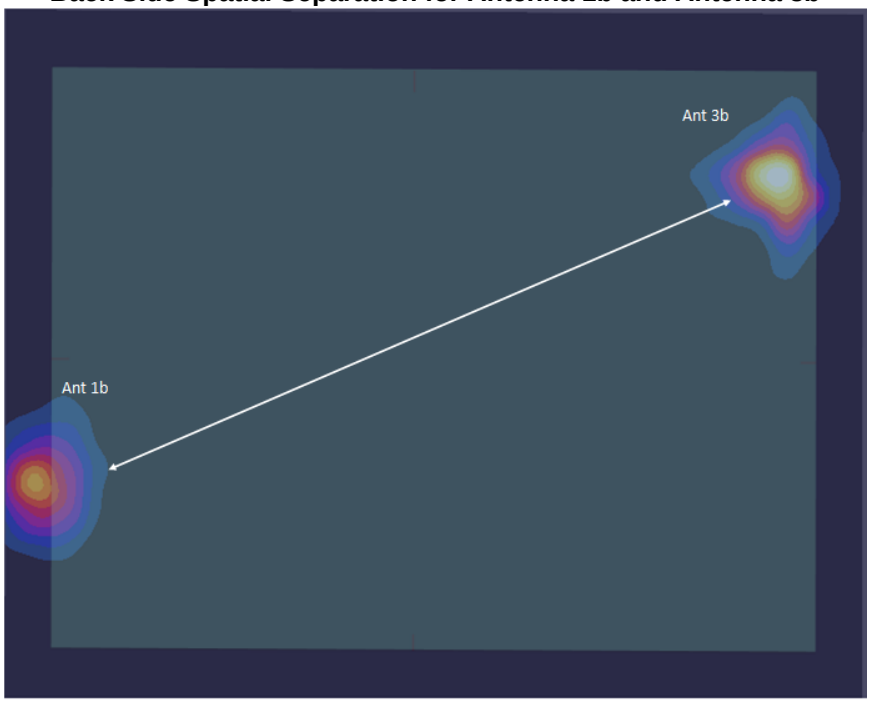
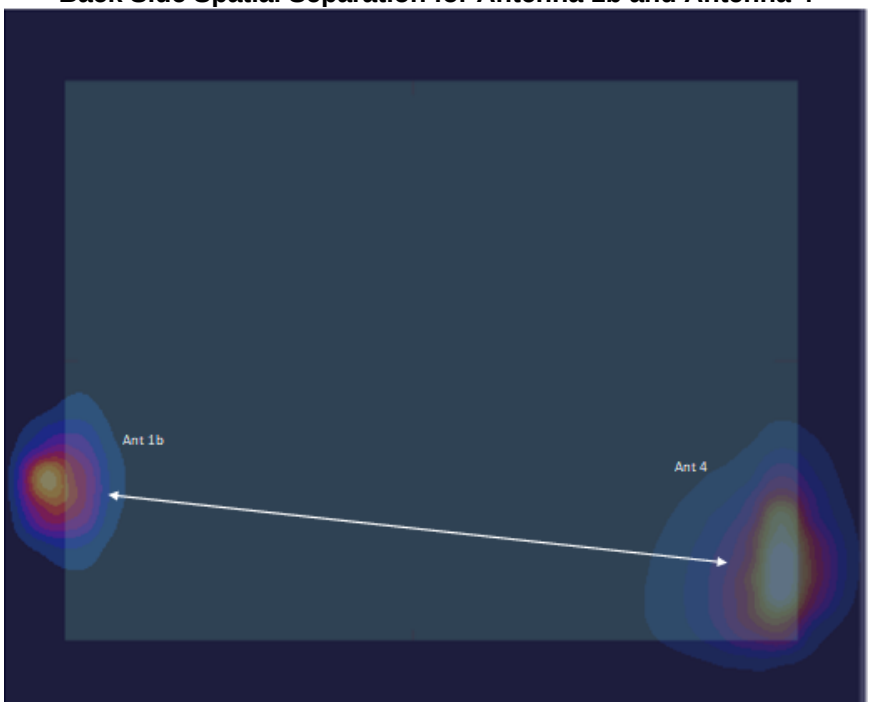
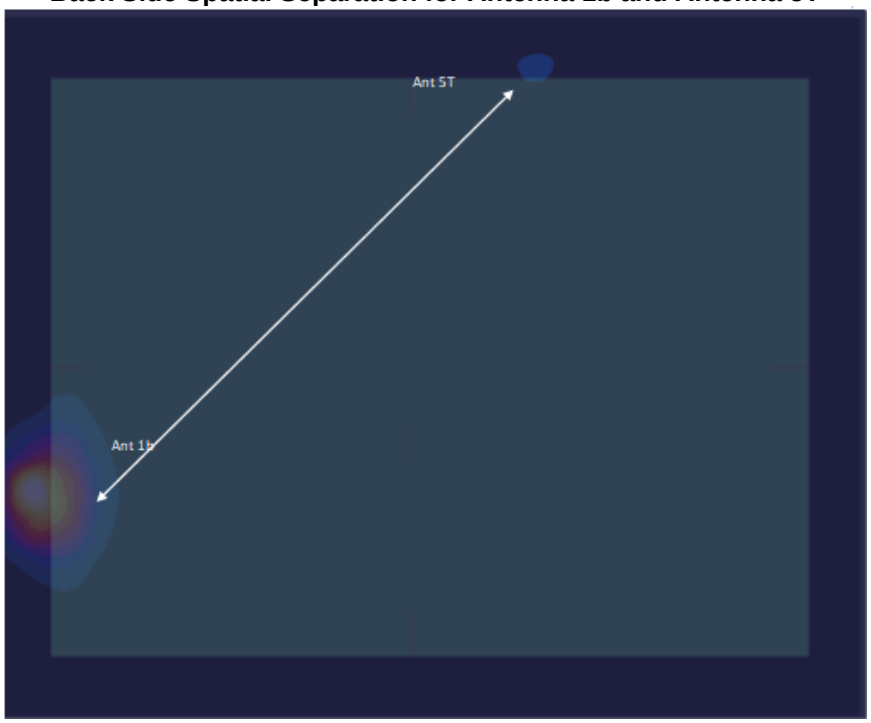


Figure 11-9
Back Side Spatial Separation for Antenna 1b and Antenna 4



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-10
Back Side Spatial Separation for Antenna 1b and Antenna 5T



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-11
Back Side Spatial Separation for Antenna 2 and Antenna 3a

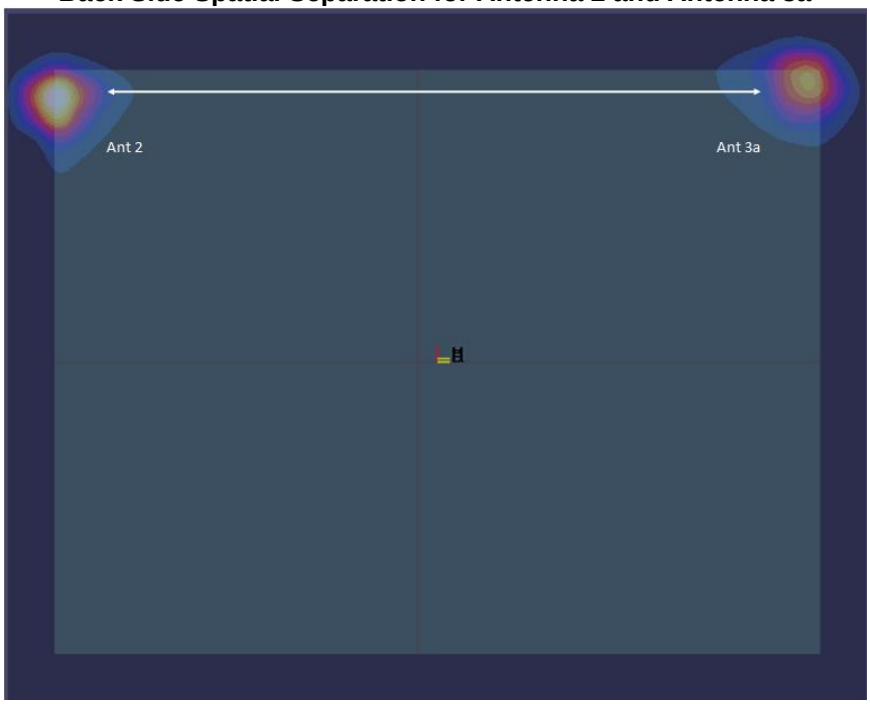
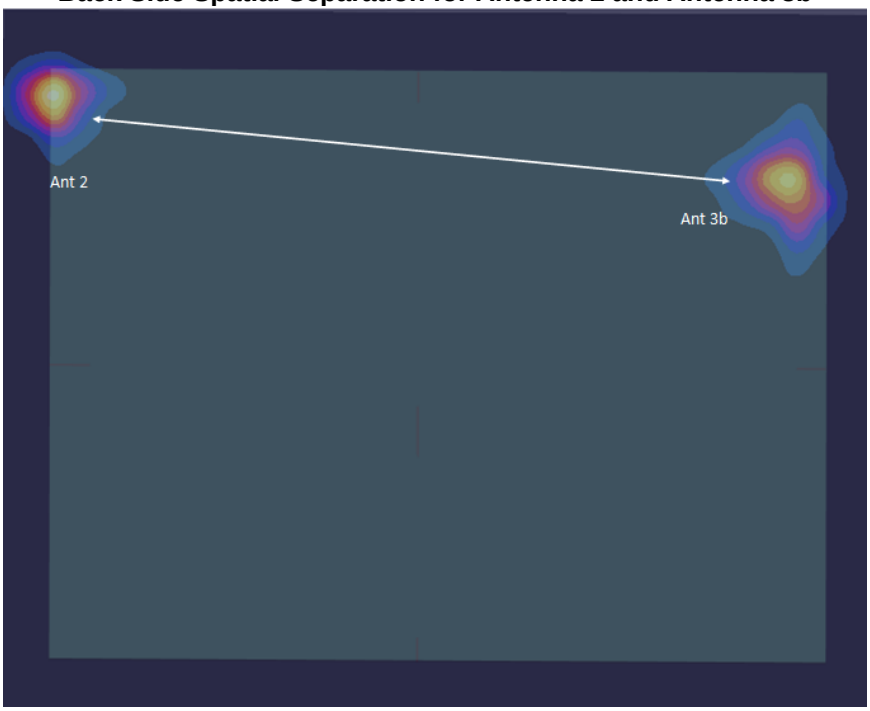


Figure 11-12
Back Side Spatial Separation for Antenna 2 and Antenna 3b



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-13
Back Side Spatial Separation for Antenna 2 and Antenna 5T

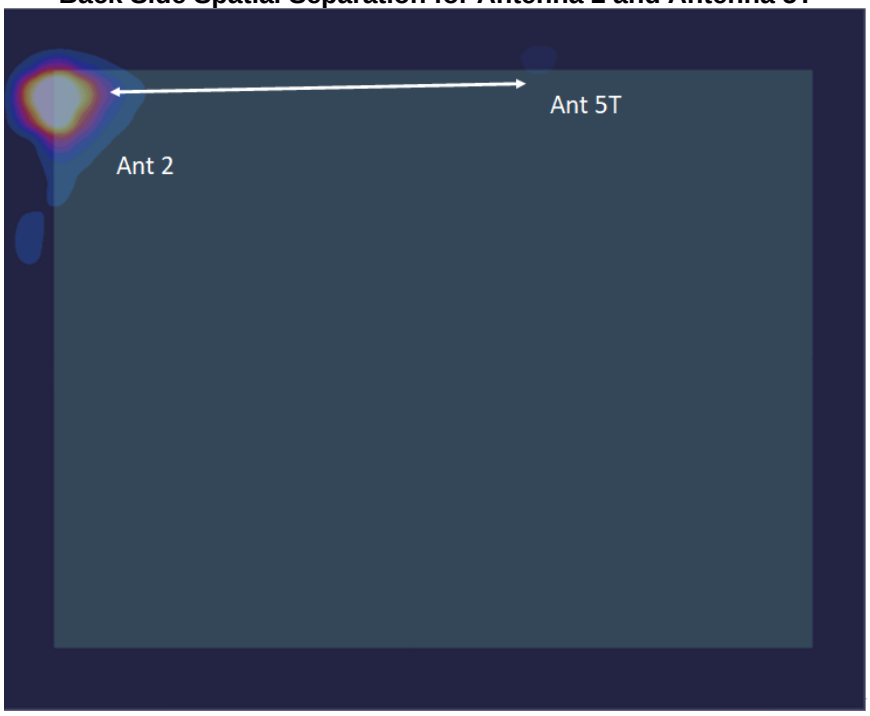
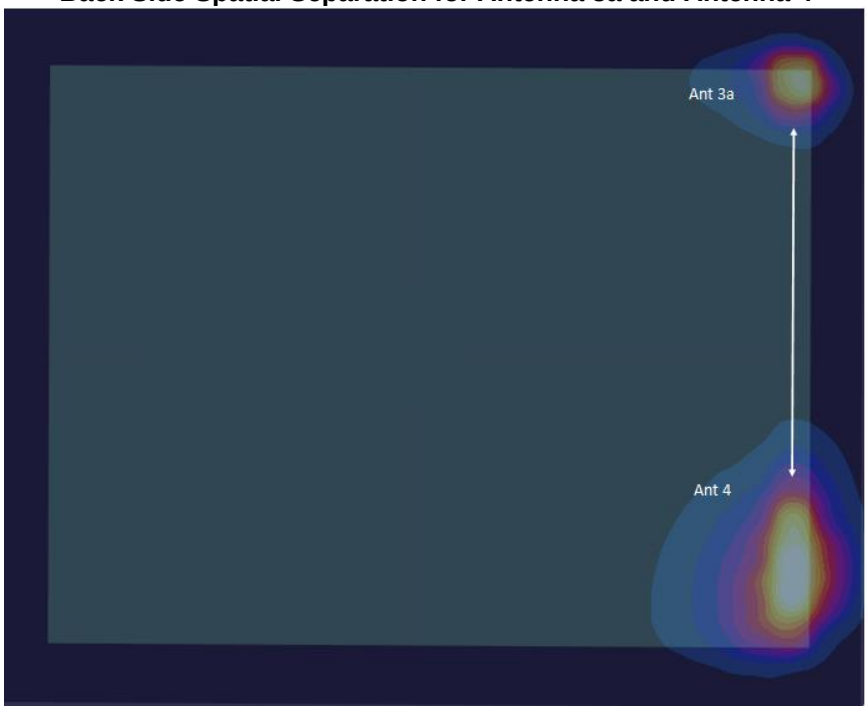


Figure 11-14
Back Side Spatial Separation for Antenna 3a and Antenna 4



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-15
Back Side Spatial Separation for Antenna 3a and Antenna 5T

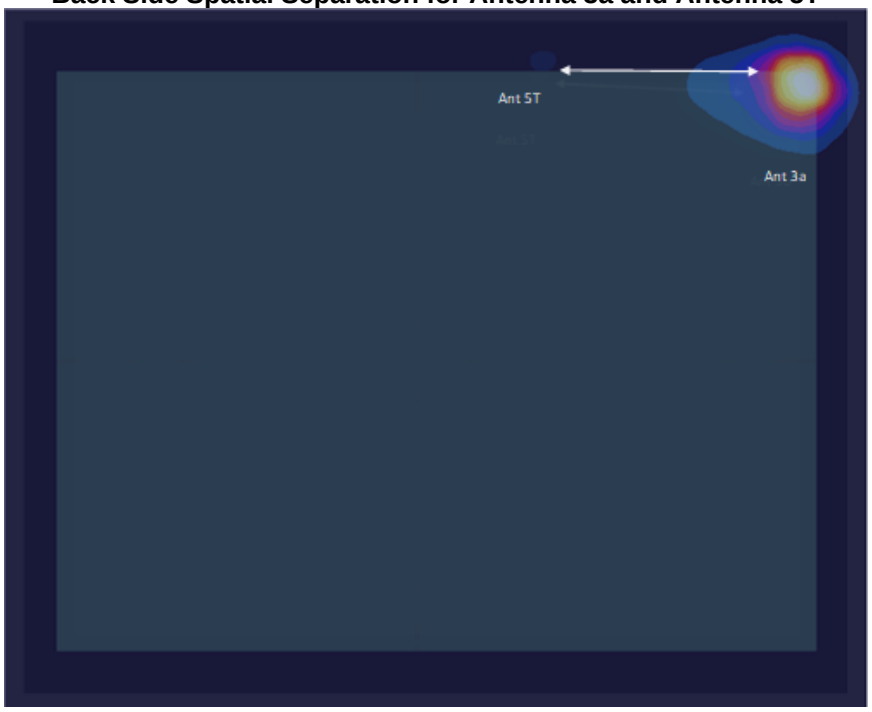
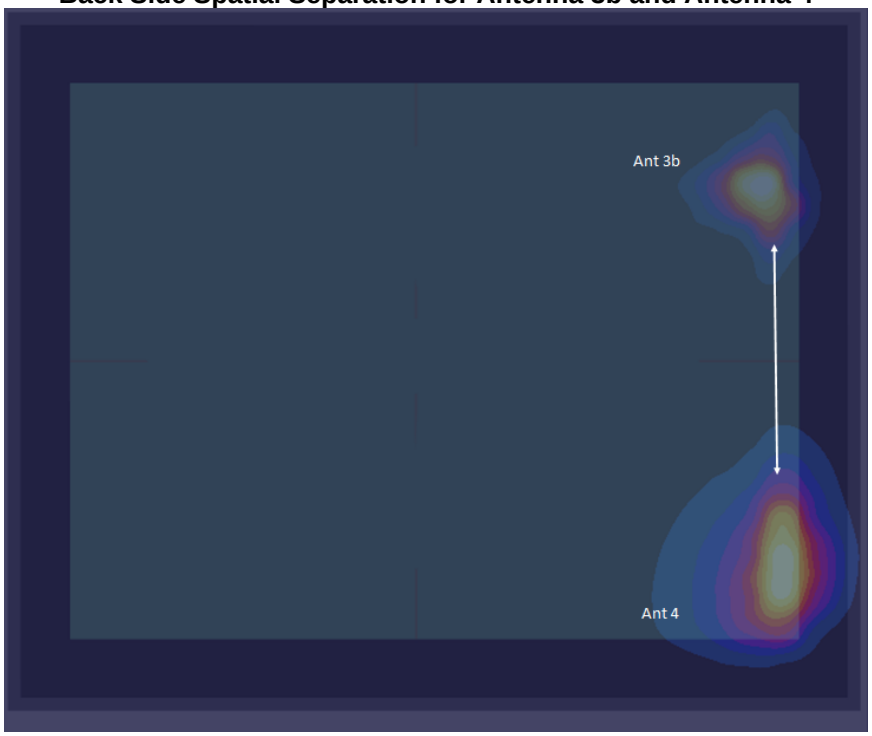


Figure 11-16
Back Side Spatial Separation for Antenna 3b and Antenna 4



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-17
Back Side Spatial Separation for Antenna 3b and Antenna 5T

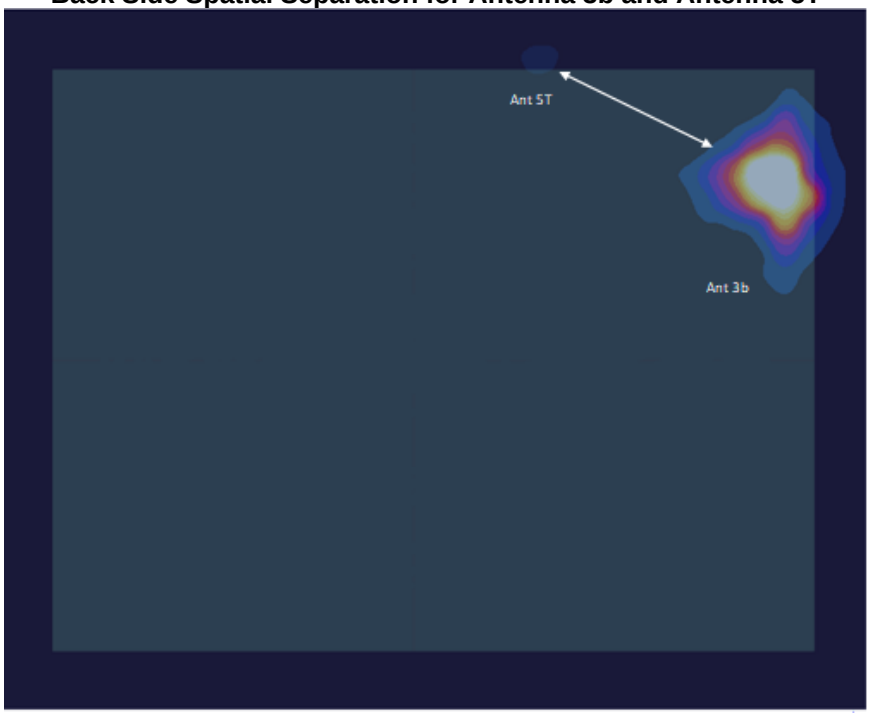
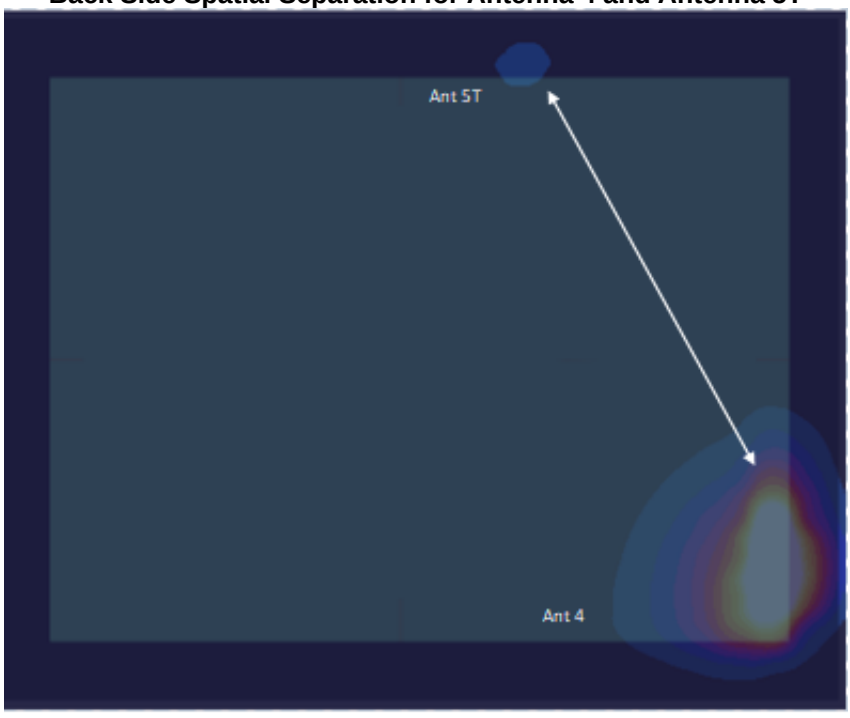


Figure 11-18
Back Side Spatial Separation for Antenna 4 and Antenna 5T

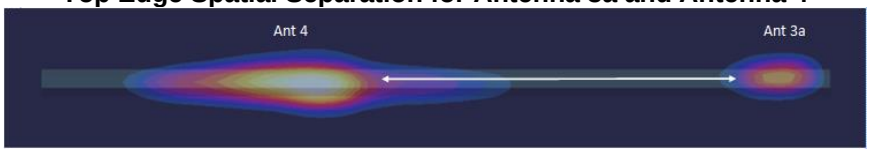


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

11.4.2 Top Edge Spatial Separation Analysis

Figure 11-19
Top Edge Spatial Separation for Antenna 3b and Antenna 4

Figure 11-20
Top Edge Spatial Separation for Antenna 3a and Antenna 4



11.4.3 Bottom Edge Spatial Separation Analysis

Figure 11-21
Bottom Edge Spatial Separation for Antenna 1a and Antenna 2

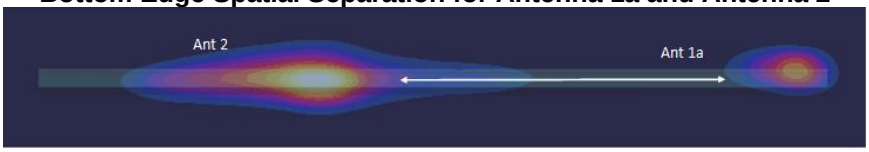


Figure 11-22
Bottom Edge Spatial Separation for Antenna 1b and Antenna 2

Antenna Pair		Standalone Values		Standalone Sum	SPLS Ratio
		Exposure Ratio (ER)	Exposure Ratio (ER)		
Ant "a"	Ant "b"	a	b	a+b	$(a+b)^{1.5}/D_{a-b}$
LTE Band 71 Ant 2	6 GHz WIFI/a Ant 1b	0.953	1.049	2.002	0.04

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

11.4.4 Right Edge Spatial Separation Analysis

Figure 11-23
Right Edge Spatial Separation for Antenna 3a and Antenna 5T

Antenna Pair		Standalone Values		Standalone Sum	SPLS Ratio
		Exposure Ratio (ER)	Exposure Ratio (ER)		
Ant "a"	Ant "b"	a	b	a+b	$(a+b)^{1.5}/D_{a-b}$
2.4 GHz Bluetooth Ant 3a	5 GHz WLAN Ant 5T	1.065	1.086	2.151	0.04

Figure 11-24
Right Edge Spatial Separation for Antenna 3a and Antenna 1a

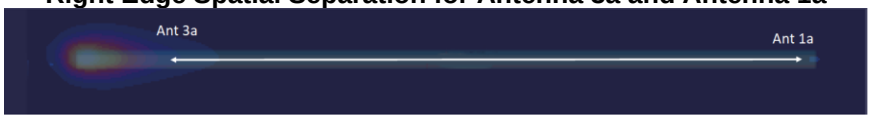


Figure 11-25
Right Edge Spatial Separation for Antenna 2 and Antenna 3a

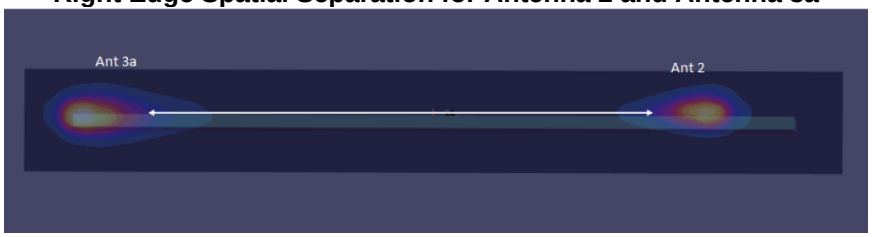
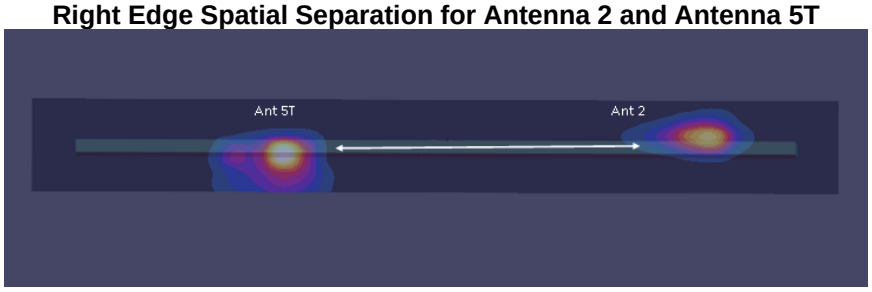


Figure 11-26
Right Edge Spatial Separation for Antenna 2 and Antenna 5T

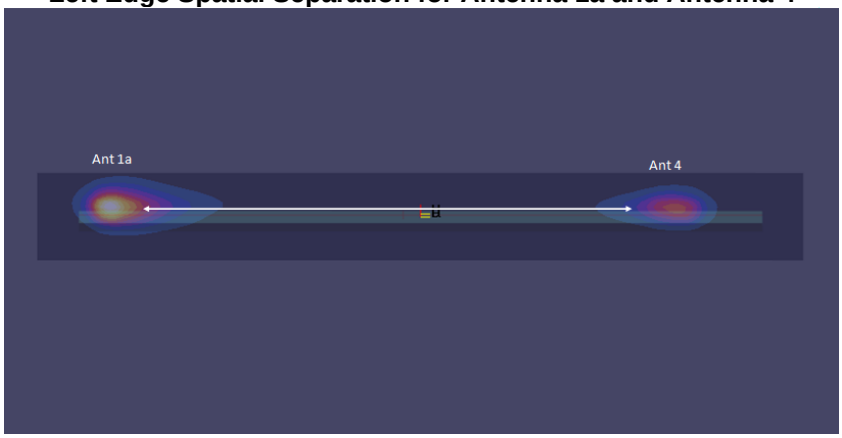


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-27
Right Edge Spatial Separation for Antenna 1b and Antenna 3a

11.4.1 Left Edge Spatial Separation Analysis

Figure 11-28
Left Edge Spatial Separation for Antenna 1a and Antenna 4



11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D04v01 and IEEE 1528-2013 Section 6.3.4.1.2.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg.
5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Ant	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)	
750	707.5	23095	LTE Band 12, 10 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 4	N/A	Back	0 mm	0.873	0.799	1.09	N/A	N/A
835	819.00	26740	LTE Band 26, 10 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Ant 2	N/A	Back	0 mm	0.948	0.944	1.00	N/A	N/A
1750	1702.50	340500	NR Band n70, 15 MHz Bandwidth	QPSK, 1 RB, 1 RB Offset	Ant 4	N/A	Left	0 mm	0.913	0.903	1.01	N/A	N/A
1900	1880.00	9400	UMTS 1900	RMC	Ant 1b	N/A	Back	0 mm	0.838	0.776	1.08	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 3b	N/A	Top	0 mm	0.880	0.877	1.00	N/A	N/A
2450	2440.00	18	802.15.4	CW	Ant 3a	0.25	Right	0 mm	1.450	1.420	1.02	1.28	1.13
2600	2592.99	518598	NR Band n41, 100 MHz Bandwidth	QPSK, 1 RB, 1 RB Offset	Ant 3b	N/A	Top	0 mm	0.979	0.971	1.01	N/A	N/A
3500	3570.00	638000	NR Band n48, 40 MHz Bandwidth	QPSK, 1 RB, 104 RB Offset	Ant 4	N/A	Back	0 mm	0.851	0.846	1.01	N/A	N/A
3700	3646.70	56207	LTE Band 48, 20 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 2	N/A	Right	0 mm	0.913	0.828	1.10	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	QPSK, 135 RB, 0 RB Offset	Ant 1a	N/A	Back	0 mm	0.968	0.860	1.13	N/A	N/A
5250	5245.00	58	5 GHz WIFI/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 3b	29.3	Top	0 mm	1.000	0.990	1.01	N/A	N/A
5600	5610.00	122	5 GHz WIFI/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 3b	29.3	Top	0 mm	0.995	1.040	1.04	N/A	N/A
5750	5775.00	155	5 GHz WIFI/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 5T	29.3	Top	0 mm	0.942	0.932	1.01	N/A	N/A
6500	6345.00	79	6 GHz WIFI/ IEEE 802.11ax, 160 MHz Bandwidth	OFDM	Ant 3b	68.1	Top	0 mm	1.030	0.881	1.17	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram				

12.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

13 ADDITIONAL TESTING PER FCC GUIDANCE

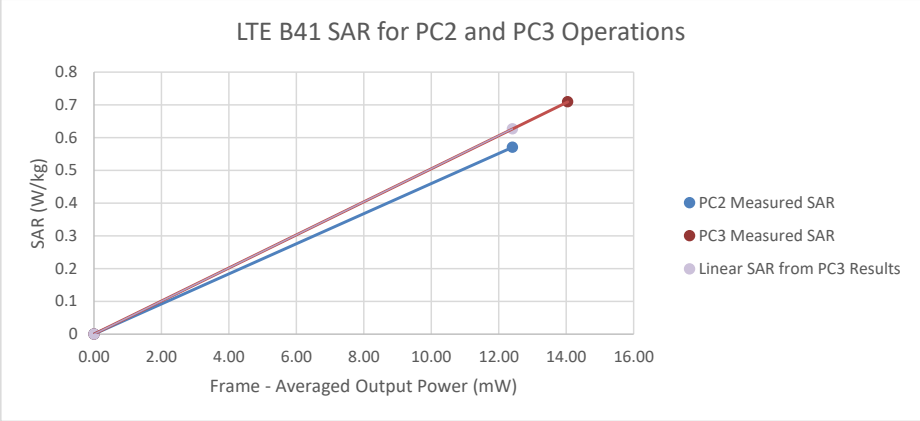
13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. When ULCA is active, the linearity between the Power Class 2 with ULCA active and Power Class 3 with ULCA active SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

Table 13-1
LTE Band 41 Body Linearity Data – Antenna 1b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.50	16.10
Measured Output Power (dBm)	13.46	14.57
Measured SAR (W/kg)	0.709	0.570
Measured Power (mW)	22.18	28.64
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.04	12.40
% deviation from expected linearity		-8.98%

Figure 13-1
LTE Band 41 Body Linearity – Antenna 1b

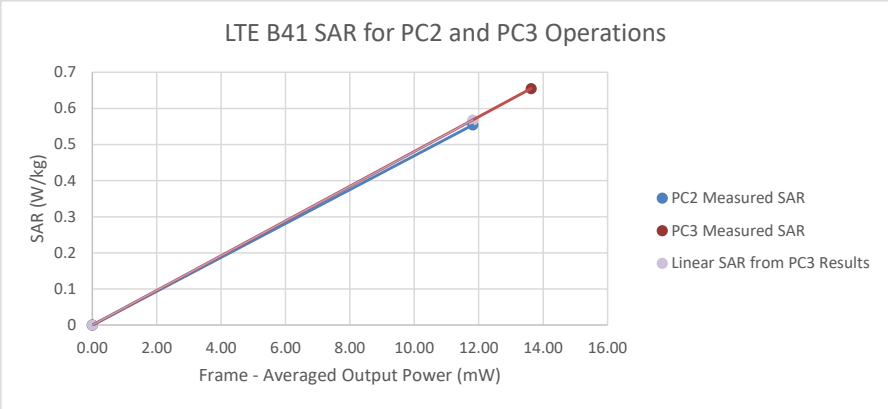


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-2
LTE Band 41 ULCA Body Linearity Data – Antenna 1b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.50	16.10
Measured Output Power (dBm)	13.33	14.36
Measured SAR (W/kg)	0.655	0.554
Measured Power (mW)	21.53	27.29
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.63	11.82
% deviation from expected linearity		-2.46%

Figure 13-2
LTE Band 41 ULCA Body Linearity – Antenna 1b

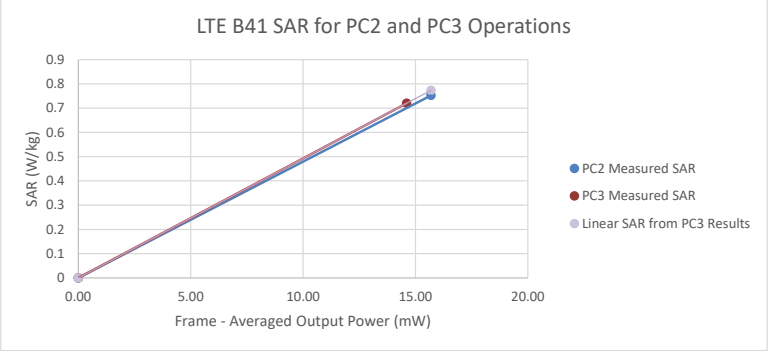


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-3
LTE Band 41 Body Linearity Data – Antenna 2

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.90	16.50
Measured Output Power (dBm)	13.63	15.59
Measured SAR (W/kg)	0.720	0.752
Measured Power (mW)	23.07	36.22
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.60	15.69
% deviation from expected linearity		-2.77%

Figure 13-3
LTE Band 41 Body Linearity – Antenna 2

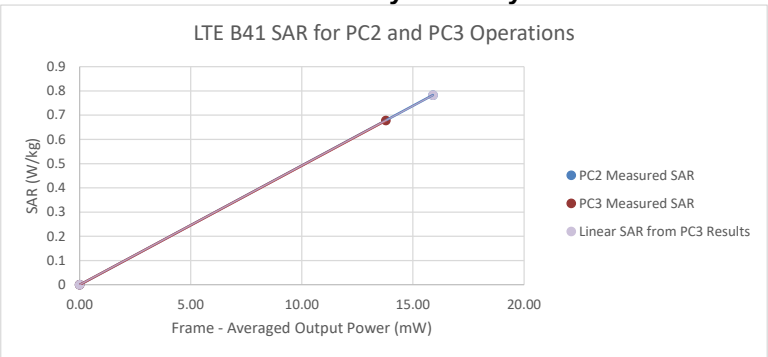


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-4
LTE Band 41 ULCA Body Linearity Data – Antenna 2

	LTE Band 41 PC3	LTE Band 41 PC2
ıum Allowed Output Power (dBm)	14.90	16.50
ıred Output Power (dBm)	13.38	15.65
ıred SAR (W/kg)	0.678	0.783
ıred Power (mW)	21.78	36.73
ycle	63.3%	43.3%
Averaged Output Power (mW)	13.78	15.90
ation from expected linearity		0.10%

Figure 13-4
LTE Band 41 ULCA Body Linearity – Antenna 2

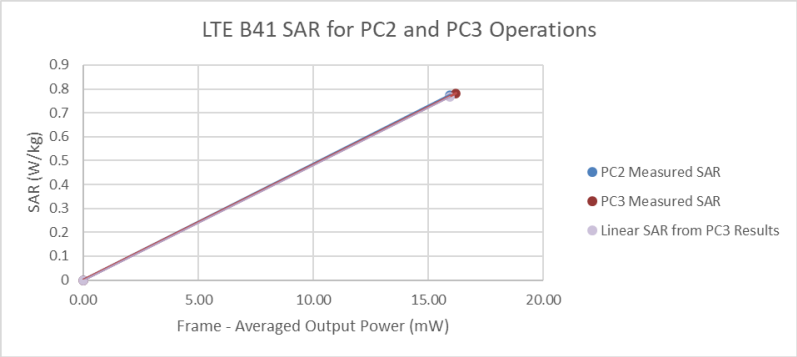


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-5
LTE Band 41 Body Linearity Data – Antenna 3b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.00	16.60
Measured Output Power (dBm)	14.08	15.66
Measured SAR (W/kg)	0.781	0.774
Measured Power (mW)	25.59	36.81
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	16.20	15.94
% deviation from expected linearity		0.69%

Figure 13-5
LTE Band 41 Body Linearity – Antenna 3b

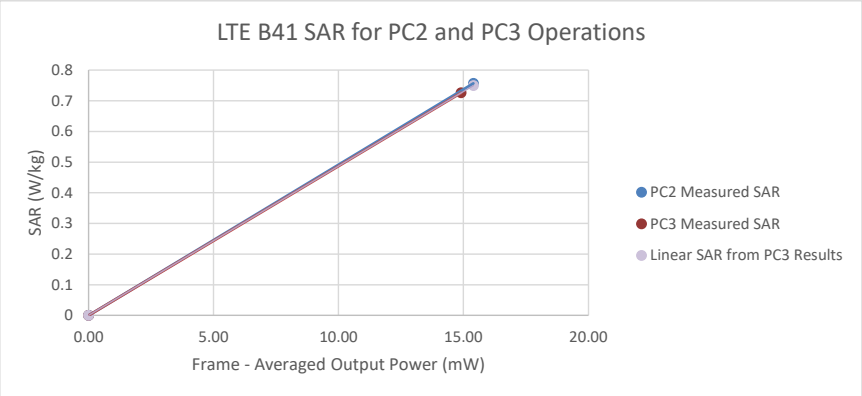


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-6
LTE Band 41 ULCA Body Linearity Data – Antenna 3b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.00	16.60
Measured Output Power (dBm)	13.72	15.51
Measured SAR (W/kg)	0.726	0.757
Measured Power (mW)	23.55	35.56
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.91	15.40
% deviation from expected linearity		0.94%

Figure 13-6
LTE Band 41 ULCA Body Linearity – Antenna 3b

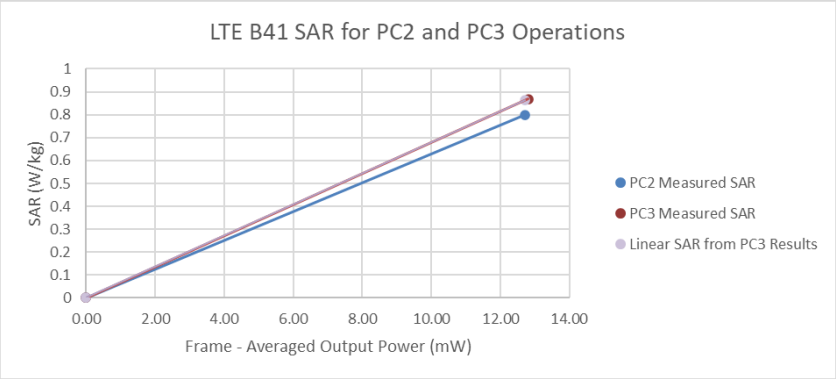


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-7
LTE Band 41 Body Linearity Data – Antenna 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.60	15.20
Measured Output Power (dBm)	13.06	14.68
Measured SAR (W/kg)	0.868	0.800
Measured Power (mW)	20.23	29.38
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	12.81	12.72
% deviation from expected linearity		-7.21%

Figure 13-7
LTE Band 41 Body Linearity – Antenna 4

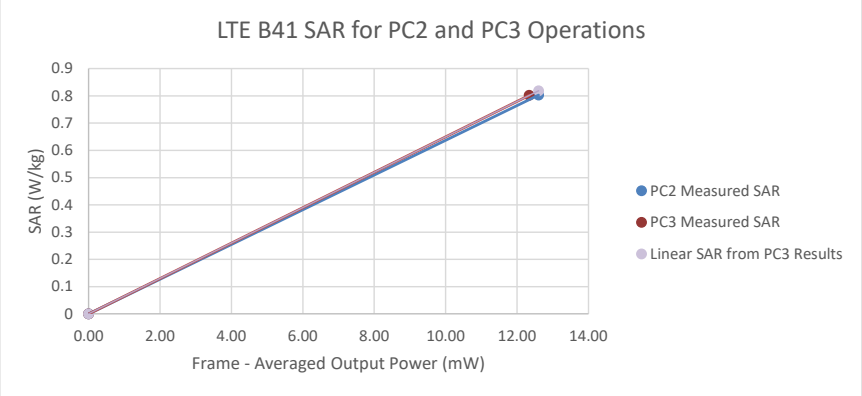


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-8
LTE Band 41 ULCA Body Linearity Data – Antenna 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.60	15.20
Measured Output Power (dBm)	12.90	14.64
Measured SAR (W/kg)	0.802	0.803
Measured Power (mW)	19.50	29.11
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	12.34	12.60
% deviation from expected linearity		-1.95%

Figure 13-8
LTE Band 41 ULCA Body Linearity – Antenna 4



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	11/14/2023	Annual	11/14/2024	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	10/12/2023	Annual	10/12/2024	MY47400355
Agilent	N5182A	MXG Vector Signal Generator	7/4/2023	Annual	7/4/2024	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	7/21/2023	Annual	7/21/2024	US39170118
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/2/2024	MY46003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	US41140256
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	MY50262130
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN81308	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
Anritsu	ML2496A	Power Meter	4/4/2023	Annual	4/4/2024	1840005
Anritsu	MA24118	Pulse Power Sensor	8/22/2023	Annual	8/22/2024	1726262
Anritsu	MA24118	Pulse Power Sensor	11/8/2023	Annual	11/8/2024	1027293
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	1/10/2023	Annual	1/10/2024	6201524637
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/7/2023	Annual	7/7/2024	6262044715
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/5/2023	Annual	7/5/2024	6262150003
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	3/31/2023	Annual	3/31/2024	6261981794
Anritsu	MT8000A	Radio Communication Test Station	3/21/2023	Annual	3/21/2024	6261987983
Anritsu	MT8000A	Radio Communication Test Station	4/6/2023	Annual	4/6/2024	6272337439
Anritsu	MT8000A	Radio Communication Test Station	10/17/2023	Annual	10/17/2024	6260308828
Anritsu	MA24108A	USB Power Sensor	6/15/2023	Annual	6/15/2024	1827530
Anritsu	MA24108A	USB Power Sensor	12/4/2023	Annual	12/4/2024	1520501
Control Company	4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230703247
Control Company	4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230702935
Control Company	4052	Long Stem Thermometer	2/17/2023	Biennial	2/17/2025	230111049
Mitutoyo	500-196-30	CD-6"ASX 6inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N6705B	DC Power Analyzer	5/5/2021	Triennial	5/5/2024	MY53004959
Keysight Technologies	N9020A	MXA Signal Analyzer	4/6/2023	Annual	4/6/2024	MY58010233
Agilent	N9020A	MXA Signal Analyzer	4/26/2022	Biennial	4/26/2024	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1130
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1200 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	22217
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	1262
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	6/1/2023	Annual	6/1/2024	168543
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/4/2023	Annual	7/4/2024	166818
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/17/2023	Annual	7/17/2024	171008
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/10/2023	Annual	10/10/2024	170999
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/13/2023	Annual	11/13/2024	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/14/2023	Annual	8/14/2024	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1350
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1241
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/13/2023	Annual	3/13/2024	1102
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	10/13/2023	Annual	10/13/2024	1008
SPEAG	CLA-13	Confined Loop Antenna	11/9/2023	Annual	11/9/2024	1004
SPEAG	D750V3	750 MHz SAR Dipole	9/13/2023	Annual	9/13/2024	1097
SPEAG	D750V3	750 MHz SAR Dipole	5/16/2022	Biennial	5/16/2024	1057
SPEAG	D750V3	750 MHz SAR Dipole	5/11/2021	Triennial	5/11/2024	1034
SPEAG	D835V2	835 MHz SAR Dipole	5/16/2022	Biennial	5/16/2024	4d040
SPEAG	D1750V2	1750 MHz SAR Dipole	5/10/2022	Biennial	5/10/2024	1081
SPEAG	D1750V2	1750 MHz SAR Dipole	11/17/2022	Biennial	11/17/2024	1040
SPEAG	D1900V2	1900 MHz SAR Dipole	5/16/2022	Biennial	5/16/2024	5d030
SPEAG	D2300V2	2300 MHz SAR Dipole	9/15/2021	Triennial	9/15/2024	1038
SPEAG	D2450V2	2450 MHz SAR Dipole	11/9/2021	Triennial	11/9/2024	921
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2022	Biennial	5/11/2024	750
SPEAG	D2600V2	2600 MHz SAR Dipole	5/11/2022	Biennial	5/11/2024	1042
SPEAG	D2600V2	2600 MHz SAR Dipole	11/15/2022	Biennial	11/15/2024	1068
SPEAG	D3500V2	3500 MHz SAR Dipole	6/9/2021	Triennial	6/9/2024	1126
SPEAG	D3500V2	3500 MHz SAR Dipole	8/17/2022	Biennial	8/17/2024	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	10/21/2022	Biennial	10/21/2024	1002
SPEAG	D3700V2	3700 MHz SAR Dipole	6/9/2021	Triennial	6/9/2024	1097
SPEAG	D3900V2	3900 MHz SAR Dipole	6/10/2021	Triennial	6/10/2024	1071
SPEAG	D5GHzV2	5 GHz SAR Dipole	3/22/2022	Biennial	3/22/2024	1123
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	10/11/2023	Annual	10/11/2024	1019
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/12/2023	Annual	9/12/2024	1684
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/11/2023	Annual	5/11/2024	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/13/2023	Annual	3/13/2024	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	538
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	1582
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/11/2023	Annual	5/11/2024	1460
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/14/2023	Annual	11/14/2024	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/8/2023	Annual	9/8/2024	1466
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	731
SPEAG	EUmmWV4	EUmmWV4 Probe	1/16/2023	Annual	1/16/2024	9523
SPEAG	EX3DV4	SAR Probe	4/13/2023	Annual	4/13/2024	7357
SPEAG	EX3DV4	SAR Probe	4/18/2023	Annual	4/18/2024	7522
SPEAG	EX3DV4	SAR Probe	10/16/2023	Annual	10/16/2024	3746
SPEAG	EX3DV4	SAR Probe	4/14/2023	Annual	4/14/2024	7546
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7638
SPEAG	EX3DV4	SAR Probe	10/2/2023	Annual	10/2/2024	3949
SPEAG	EX3DV4	SAR Probe	5/8/2023	Annual	5/8/2024	7416
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7360
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7421
SPEAG	EX3DV4	SAR Probe	11/9/2023	Annual	11/9/2024	7639
SPEAG	EX3DV4	SAR Probe	5/11/2023	Annual	5/11/2024	7682
SPEAG	EX3DV4	SAR Probe	1/19/2023	Annual	1/19/2024	7782

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

15 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c_i 1gm	c_i 10 gms	1gm u_i (± %)	10gms u_i (± %)	v_i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)			RSS				12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				24.4	24.0	

The above measurement uncertainties are according to IEEE Std. 1528-2013

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Applicable for SAR measurements > 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c_i 1gm	c_i 10 gms	1gm u_i (± %)	10gms u_i (± %)	v_i
Measurement System									
Probe Calibration	E2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)			RSS				13.8	13.6	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				27.6	27.1	

The above measurement uncertainties are according to IEEE Std. 1528-2013

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Applicable for Power Density measurements:

a	b	c	d	e	f = c x f/e	g
Uncertainty Component	Unc. (± dB)	Prob. Dist.	Div.	c_i	u_i (± dB)	v_i
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor MechanicalOffset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedence Dependance	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related						
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)		RSS			1.34	∞
Expanded Uncertainty (95% CONFIDENCE LEVEL)		k=2			2.68	

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

16 CONCLUSION

16.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g., ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g., age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

17 REFERENCES

[1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation, Aug. 1996.

[2] ANSI/IEEE C95.1-2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, 2006.

[3] ANSI/IEEE C95.1-1992, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, Sept. 1992.

[4] ANSI/IEEE C95.3-2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave, New York: IEEE, December 2002.

[5] IEEE Standards Coordinating Committee 39 –Standards Coordinating Committee 34 – IEEE Std. 1528-2013, IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

[6] NCRP, National Council on Radiation Protection and Measurements, Biological Effects and Exposure Criteria for RadioFrequency Electromagnetic Fields, NCRP Report No. 86, 1986. Reprinted Feb. 1995.

[7] T. Schmid, O. Egger, N. Kuster, Automated E-field scanning system for dosimetric assessments, IEEE Transaction on Microwave Theory and Techniques, vol. 44, Jan. 1996, pp. 105-113.

[8] K. Pokovic, T. Schmid, N. Kuster, Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies, ICECOM97, Oct. 1997, pp. 1 -124.

[9] K. Pokovic, T. Schmid, and N. Kuster, E-field Probe with improved isotropy in brain simulating liquids, Proceedings of the ELMAR, Zadar, Croatia, June 23-25, 1996, pp. 172-175.

[10] Schmid & Partner Engineering AG, Application Note: Data Storage and Evaluation, June 1998, p2.

[11] V. Hombach, K. Meier, M. Burkhardt, E. Kuhn, N. Kuster, The Dependence of EM Energy Absorption upon Human Modeling at 900 MHz, IEEE Transaction on Microwave Theory and Techniques, vol. 44 no. 10, Oct. 1996, pp. 1865-1873.

[12] N. Kuster and Q. Balzano, Energy absorption mechanism by biological bodies in the near field of dipole antennas above 300MHz, IEEE Transaction on Vehicular Technology, vol. 41, no. 1, Feb. 1992, pp. 17-23.

[13] G. Hartsgrove, A. Kraszewski, A. Surowiec, Simulated Biological Materials for Electromagnetic Radiation Absorption Studies, University of Ottawa, Bioelectromagnetics, Canada: 1987, pp. 29-36.

[14] Q. Balzano, O. Garay, T. Manning Jr., Electromagnetic Energy Exposure of Simulated Users of Portable Cellular Telephones, IEEE Transactions on Vehicular Technology, vol. 44, no.3, Aug. 1995.

[15] W. Gander, Computermathematick, Birkhaeuser, Basel, 1992.

[16] W.H. Press, S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery, Numerical Recipes in C, The Art of Scientific Computing, Second edition, Cambridge University Press, 1992.

[17] N. Kuster, R. Kastle, T. Schmid, Dosimetric evaluation of mobile communications equipment with known precision, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

[18] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10kHz-300GHz, Jan. 1995.

[19] Prof. Dr. Niels Kuster, ETH, Eidgenössische Technische Hoschschule Zürich, Dosimetric Evaluation of the Cellular Phone.

[20] IEC 62209-1, Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz), July 2016.

[21] Innovation, Science, Economic Development Canada RSS-102 Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) Issue 5, March 2015.

[22] Health Canada Safety Code 6 Limits of Human Exposure to Radio Frequency Electromagnetic Fields in the Frequency Range from 3 kHz – 300 GHz, 2015

[23] FCC SAR Test Procedures for 2G-3G Devices, Mobile Hotspot and UMPC Devices KDB Publications 941225, D01-D07

[24] SAR Measurement Guidance for IEEE 802.11 Transmitters, KDB Publication 248227 D01

[25] FCC SAR Considerations for Handsets with Multiple Transmitters and Antennas, KDB Publications 648474 D03-D04

[26] FCC SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers, FCC KDB Publication 616217 D04

[27] FCC SAR Measurement and Reporting Requirements for 100MHz – 6 GHz, KDB Publications 865664 D01-D02

[28] FCC General RF Exposure Guidance and SAR Procedures for Dongles, KDB Publication 447498, D01-D02

[29] Anexo à Resolução No. 533, de 10 de Septembro de 2009.

[30] IEC 62209-2, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz), Mar. 2010.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.