

TEST REPORT

Applicant: Siyata Mobile Inc.
Address: 1001 Lenoir St Suite A, Montreal, Quebec H4C 2Z6
Canada
Equipment Type: Siyata SD7 Ultra
Model Name: SD7 Ultra
Brand Name: N/A
FCC ID: 2AOCX-SD7ULTRA
ISED Number: 23378-SD7ULTRA
Test Standard: FCC 47 CFR Part 2.1093
(refer section 3.1)
Maximum SAR: Front of face (1 g@10mm): 0.44W/kg
Body-worn (1 g@0mm): 0.67W/kg
Hotspot (1 g@10mm): 0.62W/kg
Specific (10 g@0mm): 0.29W/kg
Sample Arrival Date: Oct. 11, 2025
Test Date: Dec. 16, 2025 - Jan. 05, 2026
Date of Issue: Feb. 26, 2026

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

**Prepared by:** Huang Xiaoqin**Reviewed by:** Cai Xueguo**Approved by:** Zhang Yanqing
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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jan. 27, 2026</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Feb. 26, 2026</u>	<u>Add Front of face SAR value on pages 1, 13, 14; update page 79 and BL-SH2580981-AST.pdf;</u> <u>The power back-off function can be changed from supported to unsupported on page 10;</u> <u>Add BL-SH2580981-AS-1.pdf on ANNEX E;</u> <u>The original report is invalid.</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name1	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address1	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Name2	Shenzhen BALUN Technology Co., Ltd.
Address2	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China

1.2 Test Location

Name1	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location1	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate1	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 29671 and CAB identifier number is CN0142.
Name2	Shenzhen BALUN Technology Co., Ltd.
Location2	1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate2	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 32189 and CAB identifier number is CN0030.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Siyata Mobile Inc.
Address	1001 Lenoir St Suite A, Montreal, Quebec H4C 2Z6 Canada

2.2 Manufacturer Information

Manufacturer	Siyata Mobile Inc.
Address	1001 Lenoir St Suite A, Montreal, Quebec H4C 2Z6 Canada

2.3 General Description for Equipment under Test (EUT)

EUT Name	Siyata SD7 Ultra
Model Name Under Test	SD7 Ultra
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	P2
Software Version	7UTMS320JAN6UU
Dimensions (Approx.)	L:56.5mm*W:42.5mm*H:2.95mm
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment	Battery	
	Brand Name	N/A
	Model No.	SD7 Ultra
	Serial No.	N/A
	Capacity	5100mAh
	Rated Voltage	3.85V
	Limit Charge Voltage	4.4V

2.5 Technical Information

Network and Wireless connectivity	LTE FDD 2/4/5/7/12/13/14/17/25/26/30/66/71 TDD 38/41/42/43/48 ULCA: CA_5B,CA_7C,CA_38C,CA_41C,CA_42C,CA_48C,CA_66C 5G SA: n2/n5/n7/n12/n13/n14/n25/n26/n30/n38/n41/n48/n66/n71/n77/n78 ENDC:DC_2A_n5A,DC_2A_n12A,DC_2A_n14A,DC_2A_n30A,DC_2A_n66A,DC_2A_n41A,DC_2A_n71A,DC_2A_n78A,DC_2A_n38A,DC_2A_n7A,DC_2A_n77A,DC_4A_n41A,DC_4A_n38A,DC_4A_n78A,DC_4A_n2A,DC_4A_n7A,DC_5A_n2A,DC_5A_n30A,DC_5A_n66A,DC_5A_n78A,DC_5A_n71A,DC_5A_n7A,DC_5A_n41A,DC_5A_n38A,DC_5A_n77A,DC_5A_n25A,DC_5A_n12A,DC_7A_n78A,DC_7A_n5A,DC_7A_n71A,DC_7A_n12A,DC_7A_n66A,DC_7A_n77A,DC_7A_n2A,DC_7A_n25A,DC_12A_n5A,DC_12A_n30A,DC_12A_n66A,DC_12A_n2A,DC_12A_n78A,DC_12A_n7A,DC_12A_n38A,DC_12A_n25A,DC_12A_n41A,DC_12A_n77A,DC_13A_n5A,DC_13A_n66A,DC_13A_n2A,DC_13A_n78A,DC_13A_n7A,DC_13A_n77A,DC_13A_n25A,DC_14A_n2A,DC_14A_n30A,DC_14A_n66A,DC_14A_n77A,DC_25A_n41A,DC_25A_n78A,DC_25A_n77A,DC_26A_n41A,DC_26A_n78A,DC_26A_n25A,DC_30A_n2A,DC_30A_n5A,DC_30A_n12A,DC_30A_n66A,DC_30A_n77A,DC_38A_n78A,DC_41A_n77A,DC_41A_n78A,DC_66A_n5A,DC_66A_n12A,DC_66A_n14A,DC_66A_n30A,DC_66A_n2A,DC_66A_n71A,DC_66A_n25A,DC_66A_n41A,DC_66A_n78A,DC_66A_n7A,DC_66A_n38A,DC_66A_n77A,DC_71A_n2A,DC_71A_n66A,DC_71A_n7A,DC_71A_n78A,DC_71A_n38A,DC_71A_n41A,DC_71A_n25A,DC_71A_n77A,DC_71A_n5A,DC_2A_n48A,DC_5A_n48A,DC_13A_n48A,DC_48A_n2A,DC_48A_n5A,DC_48A_n66A,DC_48A_n25A,DC_48A_n71A,DC_48A_n12A,DC_66A_n48A UL MIMO: n38/n41/n48/n77/n78 Bluetooth(BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), 802.11ax(HE20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80/160),802.11ax(HE20/40/80/160) 6G WIFI 802.11ax(HE20/40/80/160) GPS, GLONASS, BDS, Galileo, NFC
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	LTE; NR; WLAN; Bluetooth		
Frequency Range	LTE Band 2	TX: 1850 ~ 1910MHz	RX: 1930 ~ 1990MHz
	LTE Band 4	TX: 1710 ~ 1755MHz	RX: 2110 ~ 2155MHz
	LTE Band 5	TX: 824 ~ 849MHz	RX: 869 ~ 894MHz
	LTE Band 7	TX: 2500 ~ 2570MHz	RX: 2620 ~ 2690MHz
	LTE Band 12	TX: 699-716MHz	RX: 729-746MHz
	LTE Band 13	TX: 777-787MHz	RX: 746-756MHz
	LTE Band 14	TX: 788-798MHz	RX: 758-768MHz
	LTE Band 17	TX: 704-716MHz	RX: 734-746MHz
	LTE Band 25	TX: 1850-1915MHz	RX:1930-1995MHz
	LTE Band 26	TX: 814-849MHz	RX:859-894MHz
	LTE Band 30	TX: 2305-2315MHz	RX: 2350-2360MHz
	LTE Band 38	TX: 2570 ~ 2620MHz	RX: 2570 ~ 2620MHz
	LTE Band 41	TX: 2496 ~ 2690MHz	RX: 2496 ~ 2690MHz
	LTE Band 42	TX: 3450 ~ 3600MHz	RX: 3450 ~ 3600MHz
	LTE Band 43	TX: 3600 ~ 3700MHz	RX: 3600 ~ 3700MHz
	LTE Band 48	TX: 3550 ~ 3700MHz	TX: 3550 ~ 3700MHz
	LTE Band 66	TX: 1710-1780MHz	RX: 2110-2200MHz
	LTE Band 71	TX: 663-698MHz	RX:617-652MHz
	NR n2	TX: 1850-1910MHz	RX: 1930-1990MHz
	NR n5	TX: 824-849MHz	RX: 869-894MHz
	NR n7	TX: 2500-2570MHz	RX:2620-2690MHz
	NR n12	TX: 699-716MHz	RX: 729-746MHz
	NR n13	TX: 777-787MHz	RX: 746-756MHz
	NR n14	TX: 788-798MHz	RX: 758-768MHz
	NR n25	TX: 1850-1915MHz	RX:1930-1995MHz
	NR n26	TX: 814-849MHz	RX:859-894MHz
	NR n30	TX: 2305-2315MHz	RX: 2350-2360MHz
	NR n38	TX: 2570 ~ 2620MHz	RX: 2570 ~ 2620MHz
	NR n41	TX: 2496 ~ 2690MHz	RX: 2496 ~ 2690MHz
	NR n66	TX: 1710-1780MHz	RX: 2110-2200MHz
	NR n71	TX: 663-698MHz	RX:617-652MHz
	NR n48	TX: 3550-3700MHz	RX:3550-3700MHz
	NR n77	TX: 3300 ~ 4200MHz	TX: 3300 ~ 4200MHz
	NR n78	TX: 3300 ~ 3800MHz	TX: 3300 ~ 3800MHz
	2.4G WIFI	2412 ~ 2462 MHz	
	5G WIFI	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	

	6G WIFI	5925 ~ 6425MHz
		6425 ~ 6525MHz
		6525 ~ 6875MHz
		6875 ~ 7125MHz
	Bluetooth	2402 ~ 2480MHz
Antenna Type	WWAN: PIFA Antenna WIFI: PIFA Antenna Bluetooth: PIFA Antenna	
DTM	N/A	
Hotspot Function	Support	
Power Reduction	Not Support	
Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	☒ Production unit	☐ Identical prototype

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	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
4	RSS-102 Issue 6	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
5	RSS-102.SAR.MEAS Issue2	Measurement Procedure for Assessing Specific Absorption Rate (SAR) Compliance in Accordance with RSS-102
6	IEC/IEEE 62209-1528:2020	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 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
7	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
8	KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
9	KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
10	KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
11	KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. 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.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. 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.

3.3 Test Result Summary

3.3.1 Highest SAR Values

Equipment Class	Band	Maximum Scaled SAR (W/kg)				Maximum Report SAR (W/kg)			
		Front of face	Body-worn	Hotspot	Specific	Front of face	Body-worn	Hotspot	Specific
		(10mm)	(0mm)	(10mm)	(0mm)	(10mm)	(0mm)	(10mm)	(0mm)
		1g SAR	1g SAR		10g SAR	1g SAR	1g SAR		10g SAR
PCE	LTE B2	0.18	0.40	0.33	/	0.44	0.67	0.62	0.29
	LTE B4	0.18	0.46	0.22	/				
	LTE B5	0.38	0.52	0.38	/				
	LTE B7	0.23	0.40	0.26	/				
	LTE B12	0.16	0.15	0.16	/				
	LTE B13	0.26	0.28	0.26	/				
	LTE B14	0.30	0.31	0.30	/				
	LTE B17	0.18	0.16	0.18	/				
	LTE B25	0.16	0.34	0.30	/				
	LTE B26	0.33	0.45	0.33	/				
	LTE B30	0.18	0.39	0.23	/				
	LTE B66	0.17	0.25	0.25	/				
	LTE B71	0.21	0.18	0.21	/				
	LTE B38	0.14	0.21	0.17	/				
	LTE B41	0.13	0.24	0.16	/				
	LTE B42	0.12	0.50	0.25	/				
	LTE B43	0.32	0.54	0.50	/				
	LTE B48	0.21	0.56	0.50	/				
	NR n2	0.22	0.41	0.27	/				
	NR n5	0.30	0.42	0.30	/				
	NR n7	0.15	0.40	0.32	/				
	NR n12	0.17	0.20	0.22	/				
	NR n13	0.29	0.25	0.29	/				
	NR n14	0.40	0.43	0.40	/				
	NR n25	0.18	0.43	0.35	/				
	NR n26	0.36	0.41	0.36	/				
	NR n30	0.20	0.43	0.24	/				
	NR n66	0.17	0.32	0.23	/				
	NR n71	0.09	0.11	0.12	/				

	NR n38	0.22	0.48	0.23	/			
	NR n41	0.24	0.49	0.46	/			
	NR n48	0.19	0.47	0.49	/			
	NR n77	0.44	0.47	0.62	/			
	NR n78	0.36	0.50	0.50	/			
DTS	2.4G WIFI	0.21	0.62	0.28	/			
NII	5.2G WIFI	/	/	0.17	/			
	5.3G WIFI	0.05	0.60	/	/			
	5.6G WIFI	0.03	0.66	/	/			
	5.8G WIFI	0.04	0.67	0.22	/			
6XD	6G WIFI	0.11	0.67	/	0.29			
DSS	Bluetooth	0.02	0.11	0.03	/			
Limit (W/kg)		1.6			4	1.6		4
Verdict		PASS						
Note: The SAR-related data for BT, WIFI comes from Shenzhen BALUN Technology Co., Ltd.								

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)			
	Front of face (10mm)	Body-worn 1g (0mm)	Hotspot 1g (10mm)	Specific 10g (0mm)
PCE	0.72	1.59	0.85	/
Limit (W/kg)	1.6	1.6	1.6	4
Verdict	Pass			
Note: The highest simultaneous SAR please refer section 11				

3.4 Test Uncertainty

3.4.1 Measurement uncertainty evaluation for SAR test

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEC/IEEE 62209-1528:2020 This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1) System Measurement Uncertainty (frequency range from 300 MHz to 3 GHz)

DASY5 Uncertainty Budget (Frequency band: 300 MHz - 3 GHz range)								
Symbol	Error Description	Uncert. value	Prob Dist.	Div	(c _i) 1g	(c _i) 10g	Std. Unc. (1g)	Std. Unc. (10g)
Measurement System Errors								
CF	Probe Calibration	±12.0%	N	2	1	1	±6.0%	±6.0%
CF _{drift}	Probe Calibration Drift	±1.0%	N	1	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±3.0%	N	2	1	1	±1.5%	±1.5%
ISO	Probe Isotropy	±7.6%	R	√3	1	1	±4.4%	±4.4%
DAE	Data Acquisition	±0.3%	N	1	1	1	±0.3%	±0.3%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.2%	N	1	0.1 4	0.14	±0%	±0%
DAT	Data Processing	±1.2%	N	1	1	1	±1.2%	±1.2%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) ^{DAK}	±2.5%	N	1	0.7 8	0.71	±2.0%	±1.8%
LIQ(T _σ)	Conductivity (temp.) ^{BB}	±3.3%	R	√3	0.7 8	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	√3	0	0	±0%	±0%
DAS	Distance DUT - TSL	±2.1%	N	1	2	2	±4.2%	±4.2%
H	Device Holder	±3.8%	N	1	1	1	±3.8%	±3.8%
MOD	DUT Modulation ^m	±2.4%	R	√3	1	1	±1.4%	±1.4%
TAS	Time-average SAR	±2.6%	R	√3	1	1	±1.5%	±1.5%
RF _{drift}	DUT drift	±5.0%	R	√3	1	1	±2.9%	±2.9%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
C(R)	SAR scaling ^p	±0%	R	√3	1	1	±0%	±0%
u(ΔSAR)	Combined Uncertainty						±11.2%	±11.0%

U	Expanded Uncertainty						±22.3%	±22.2%
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2) System Measurement Uncertainty (frequency range from 3 GHz to 6 GHz)

DASY5 Uncertainty Budget								
(Frequency band: 3 GHz - 6 GHz range)								
Symbol	Error Description	Uncert. value	Prob. Dist.	Div.	(c _i) 1g	(c _i) 10g	Std. Unc. (1g)	Std. Unc. (10g)
Measurement System Errors								
CF	Probe Calibration	±14.0%	N	2	1	1	±7.0%	±7.0%
CF _{drift}	Probe Calibration Drift	±1.0%	N	1	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±3.0%	N	2	1	1	±1.5%	±1.5%
ISO	Probe Isotropy	±7.6%	R	√3	1	1	±4.4%	±4.4%
DAE	Data Acquisition	±0.3%	N	1	1	1	±0.3%	±0.3%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.2%	N	1	0.33	0.33	±0.1%	±0.1%
DAT	Data Processing	±2.3%	N	1	1	1	±2.3%	±2.3%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) ^{DAK}	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
LIQ(T _σ)	Conductivity (temp.) ^{BB}	±3.4%	R	√3	0.78	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	√3	0.25	0.25	±2.0%	±2.0%
DAS	Distance DUT - TSL	±2.1%	N	1	2	2	±4.2%	±4.2%
H	Device Holder	±3.8%	N	1	1	1	±3.8%	±3.8%
MOD	DUT Modulation ^m	±2.4%	R	√3	1	1	±1.4%	±1.4%
TAS	Time-average SAR	±2.6%	R	√3	1	1	±1.5%	±1.5%
RF _{drift}	DUT drift	±5.0%	R	√3	1	1	±2.9%	±2.9%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
C(R)	SAR scaling ^p	±0%	R	√3	1	1	±0%	±0%
u(ΔSAR)	Combined Uncertainty	/	/	/	/	/	±12.1%	±12.0%
U	Expanded Uncertainty	/	/	/	/	/	±24.2%	±24.0%

3.4.2 Measurement uncertainty evaluation for system check

This measurement uncertainty budget is suggested by IEC/IEEE 62209-1528. The break down of the individual uncertainties is as follows:

DASY5 Uncertainty Budget (Frequency band: 300 MHz - 6 GHz range)								
Symbol	Error Description	Uncert. value	Prob. Dist.	Div.	(c _i) 1g	(c _i) 10g	Std. Unc. (1g)	Std. Unc. (10g)
Measurement System Errors								
CF	Probe Calibration	±14.0%	N	2	1	1	±7.0%	±7.0%
CF _{drift}	Probe Calibration Drift	±1.0%	N	1	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±0.0%	N	2	1	1	±0.0%	±0.0%
ISO	Probe Isotropy	±7.6%	R	√3	1	1	±4.4%	±4.4%
DAE	Data Acquisition	±0.3%	N	1	1	1	±0.3%	±0.3%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.2%	N	1	0.33	0.33	±0%	±0%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) ^{DAK}	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
LIQ(T _σ)	Conductivity (temp.) ^{BB}	±3.4%	R	√3	0.78	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	√3	0.25	0.25	±2.0%	±2.0%
DAS	Distance DUT - TSL	±1.0%	N	1	2	2	±2.0%	±2.0%
VAL	Validation antenna	±0.0%	R	√3	1	1	±0.0%	±0.0%
P _{in}	Accepted power	±1.2%	N	1	1	1	±1.2%	±1.2%
RF _{drift}	DUT drift	±5.0%	R	√3	1	1	±2.9%	±2.9%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
u(ΔSAR)	Combined Uncertainty	/	/	/	/	/	±10.4%	±10.3%
U	Expanded Uncertainty	/	/	/	/	/	±20.7%	±20.5%

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

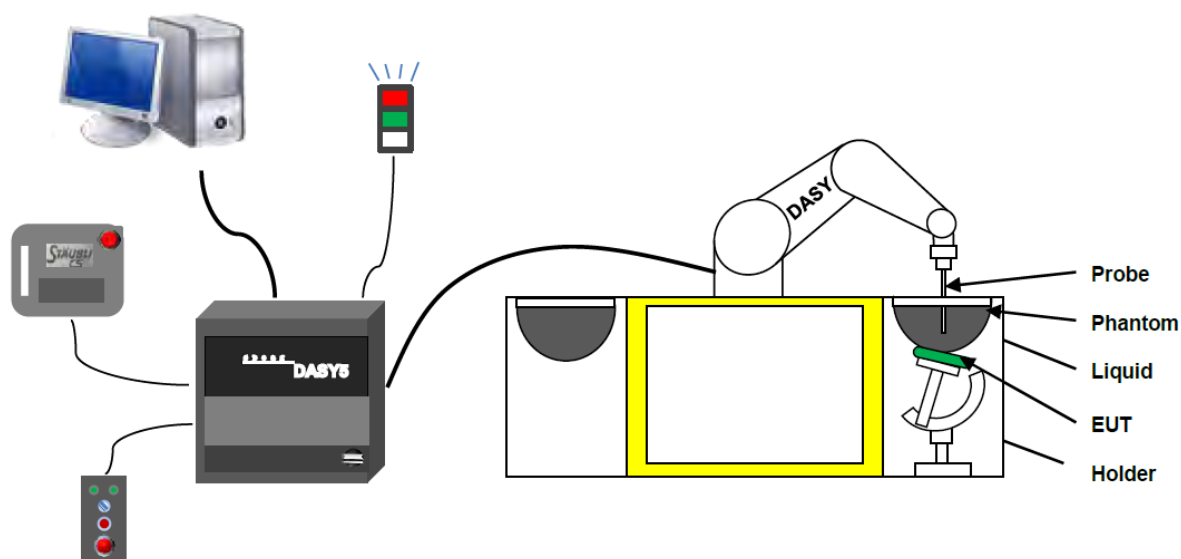
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram

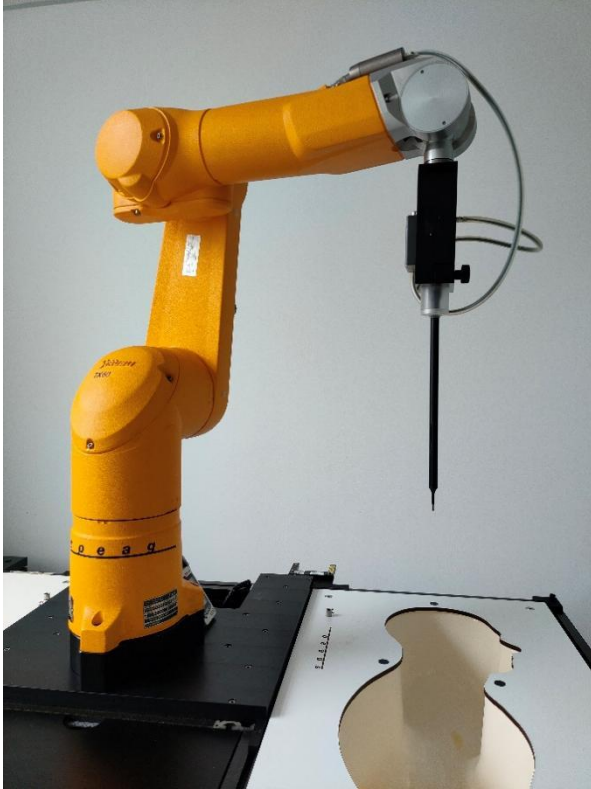


The DASY5 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision
(repeatability ± 0.02 mm)
- High reliability
(industrial design)
- Low maintenance costs
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
(brush less synchron motors; no stepper motors)
- Low ELF interference
(motor control _elds shielded via the closed metallic construction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 with following specifications is used.

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)



E-Field Probe Calibration Process

Probe calibration is realized, in compliance with IEC/IEEE 62209-1528:2020, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528:2020 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

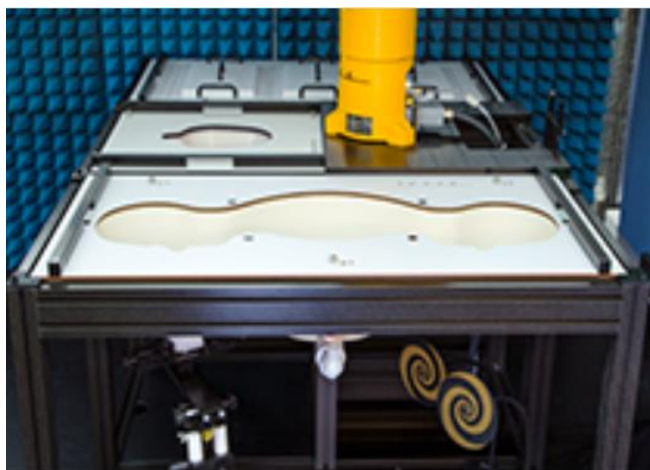
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200M Ω
- The Inputs: Symmetrical and Floating
- Common Mode Rejection: Above 80dB

4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- Left head
- Right head
- Flat phantom

Photo of Phantom SN1473



Serial Number	Material	Length	Height
SN 1473 SAM1	Vinylester, glass fiber reinforced	1000	500

4.2.6 Device Holder

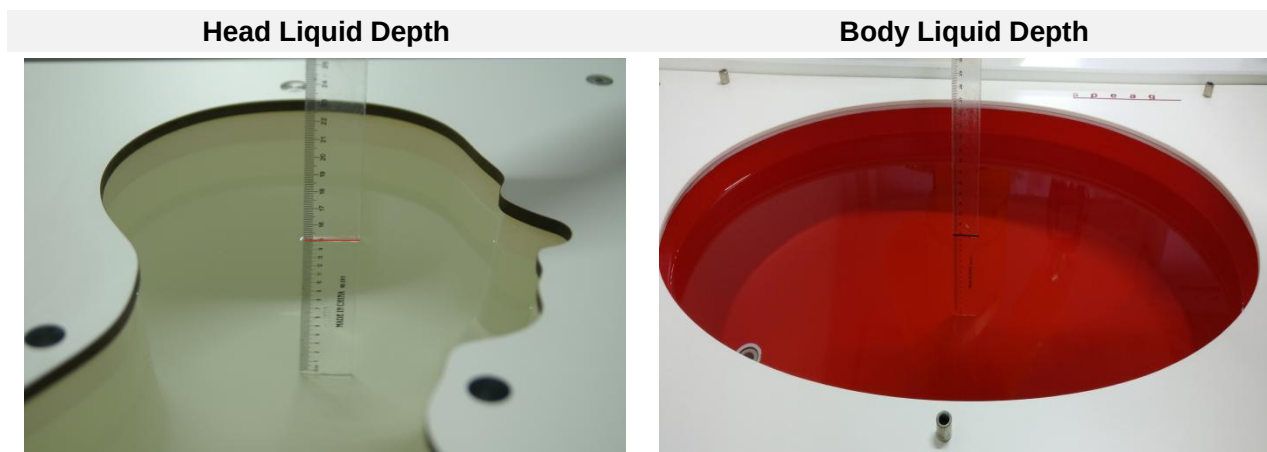
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.



The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1° .

4.2.7 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.



The following table gives the recipes for tissue simulating liquid.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600-10000V6	600-10000	Ethenediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

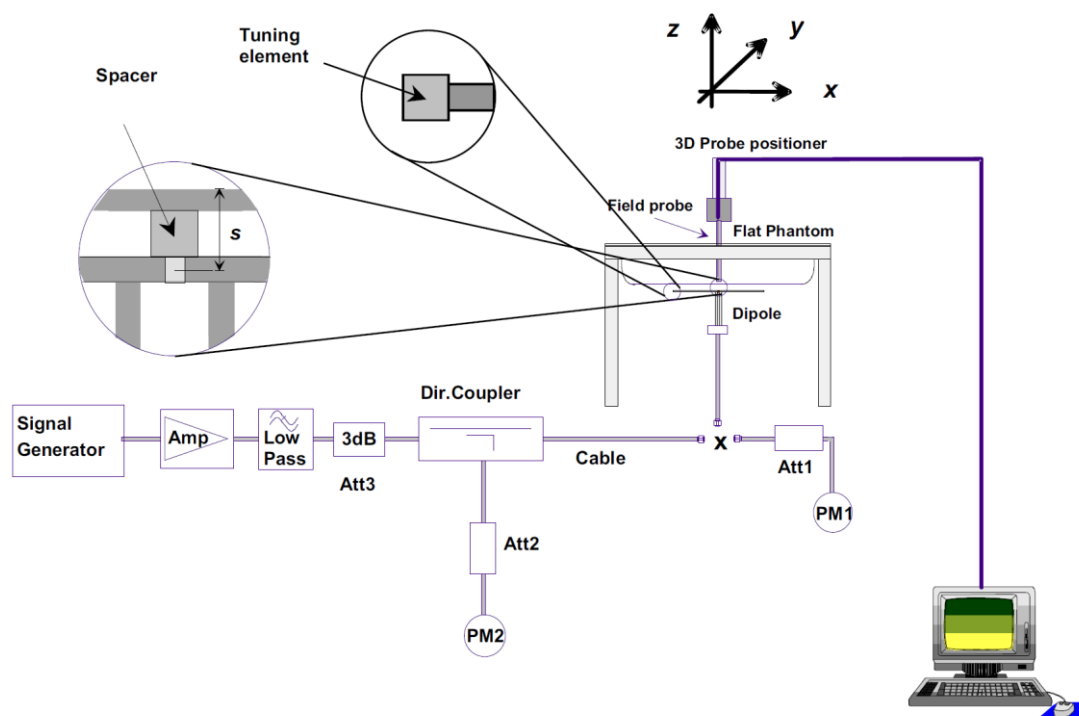
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 TEST POSITION CONFIGURATIONS

According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEC/IEEE 62209-1528:2020 using the SAM phantom illustrated as below.

6.1.1 Definition of the cheek position

The cheek position is established using steps a) to j) as follows.

a) Configure the DUT for voice operation, if necessary. For example, for a DUT with a flip, swivel, or slide cover piece, open the cover if this is consistent with voice operation. If the DUT can also be used with the cover closed, both configurations shall be tested.

b) Define two imaginary lines on the DUT, the vertical centreline and the horizontal line, relative to the DUT in vertical orientation as shown in Figure 1.

c) The vertical centreline passes through two points on the front side of the DUT: the midpoint of the width w_t of the DUT at the level of the acoustic output (Point A in Figure 1), and the midpoint of the width w_b at the bottom of the DUT (Point B). The horizontal line is perpendicular to the vertical centerline, and passes through the centre of the acoustic output (Figure 1). The two lines intersect at Point A. Note that for many DUTs, Point A coincides with the centre of the acoustic output. However, the acoustic output could be located elsewhere on the horizontal line. Also note that the vertical centreline is not necessarily parallel to the front face of the DUT, especially for clamshell DUTs, DUTs with flip cover pieces, and other irregularly shaped DUTs.

d) Position the DUT close to the surface of the phantom such that Point A is on the (virtual) extension of the line passing through points RE (right-ear ear reference point) and LE (left-ear ear reference point) on the phantom (see Figure 2a) and Figure 2b)). The plane determined by the vertical centreline and the horizontal line of the DUT shall be parallel to the sagittal plane of the phantom.

e) Translate the DUT towards the phantom along the line passing through RE and LE until the DUT touches the ear (see Figure 2c)).

f) Rotate the DUT around the (virtual) LE-RE Line until the DUT vertical centreline is in the reference plane (see Figure 2d)).

g) Rotate the DUT around its vertical centreline until the plane established by the DUT vertical centreline and horizontal line is parallel to the N-F line (see Annex G), and then translate the DUT towards the phantom along the LE-RE line until DUT Point A touches the ear at the ERP (ear reference point) (see Figure 2e)).

h) While keeping Point A on the line passing through RE and LE and maintaining the DUT in contact with the pinna, rotate the DUT about the N-F line until any point on the DUT is in contact with a phantom point below the pinna (cheek) (see Figure 2f)). The physical angles of rotation shall be documented.

i) While keeping DUT Point A in contact with the ERP, rotate the DUT around a line perpendicular to the plane established by the DUT vertical centreline and horizontal line and passing through DUT Point A, until the DUT vertical centreline is in the reference plane (see Figure 2g)).

j) Verify that the cheek position is correct as follows:

- 1) the N-F line is in the plane established by the DUT vertical centreline and horizontal line;
- 2) DUT Point A touches the pinna at the ERP;
- 3) the DUT vertical centreline is in the reference plane.

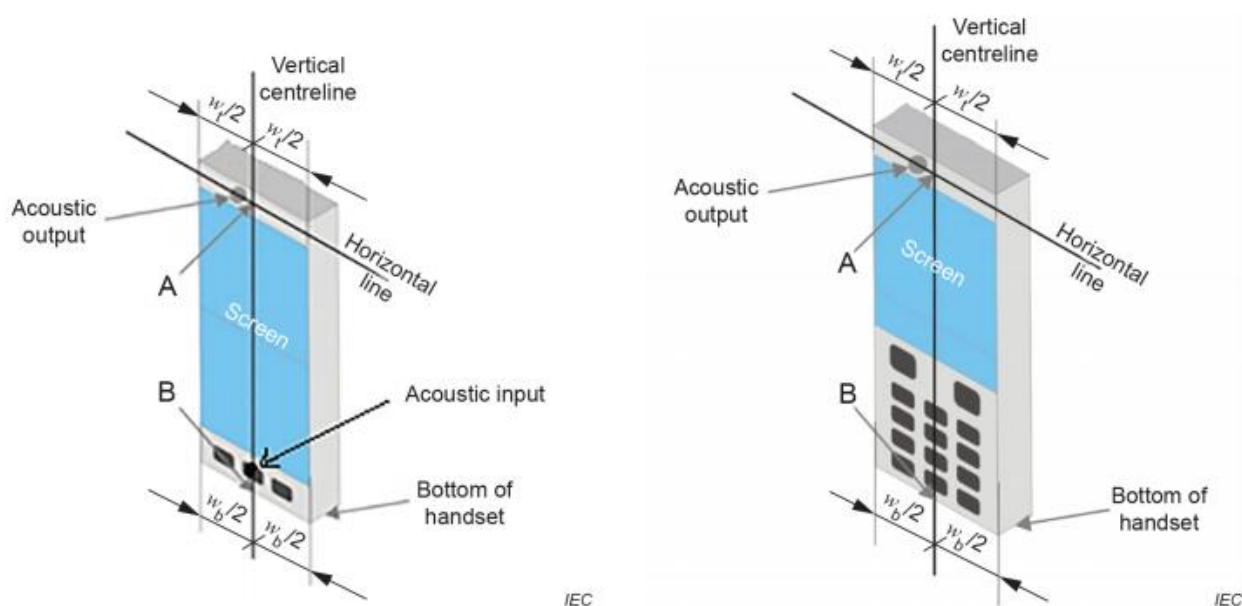


Figure 1



Figure 2a

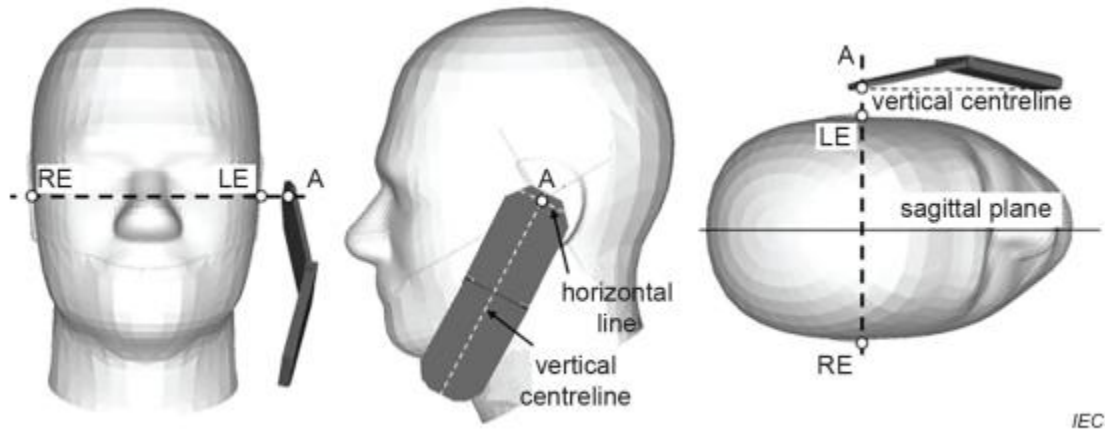


Figure 2b

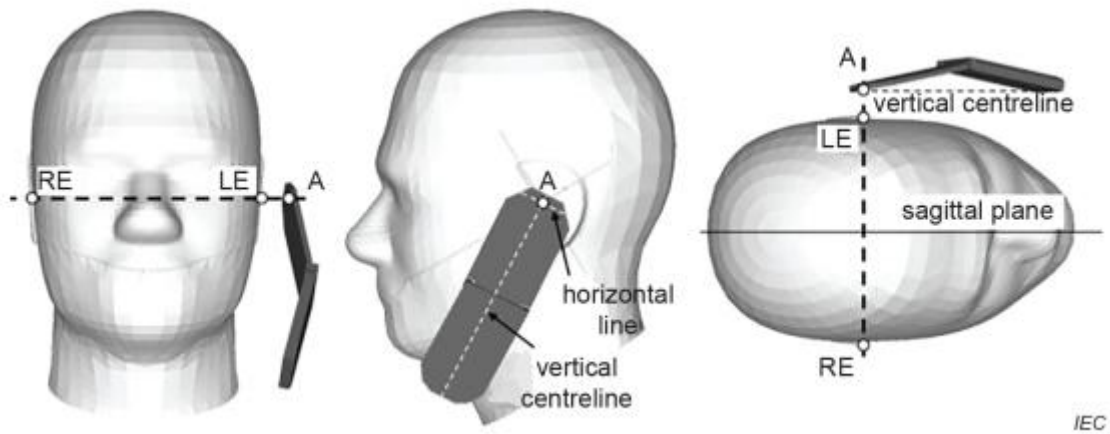


Figure 2c

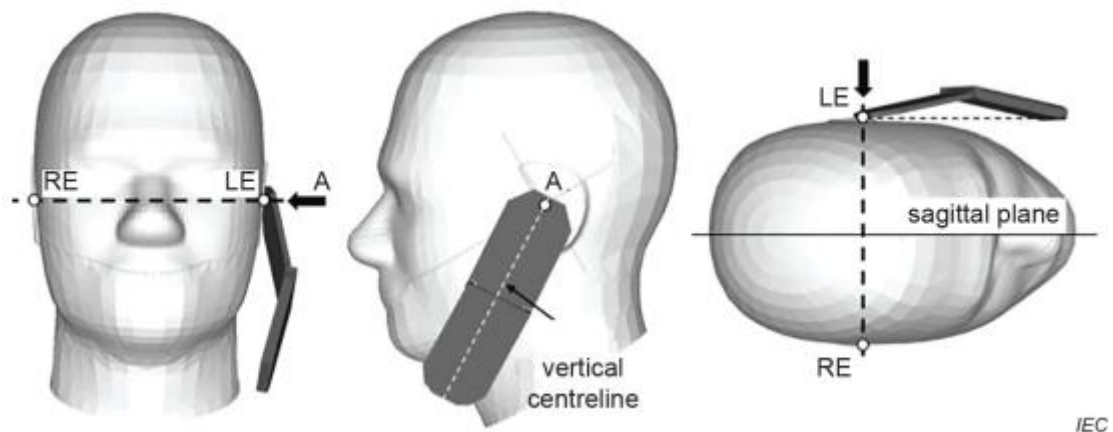


Figure 2d

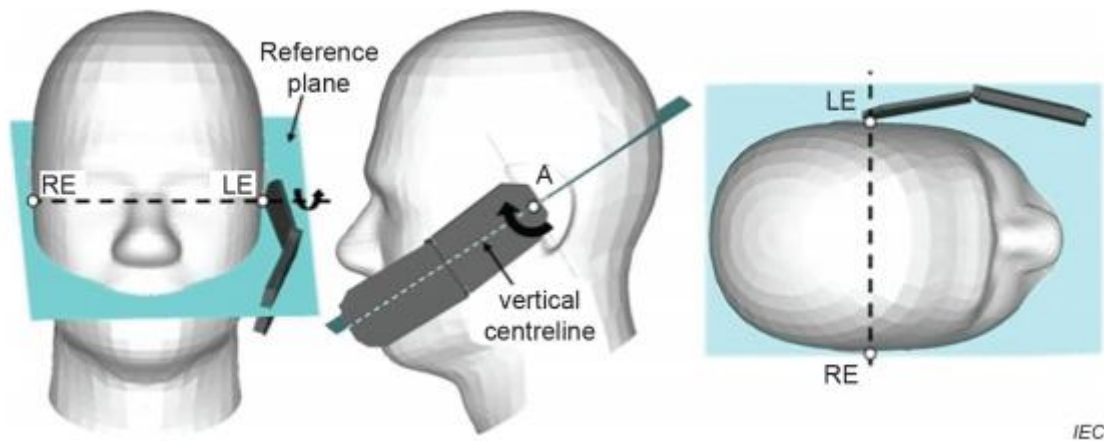


Figure 2e

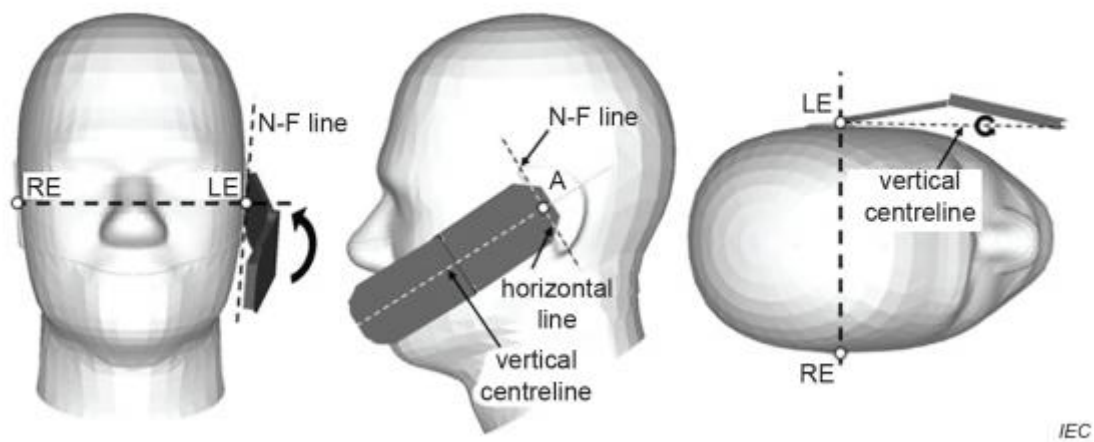


Figure 2f

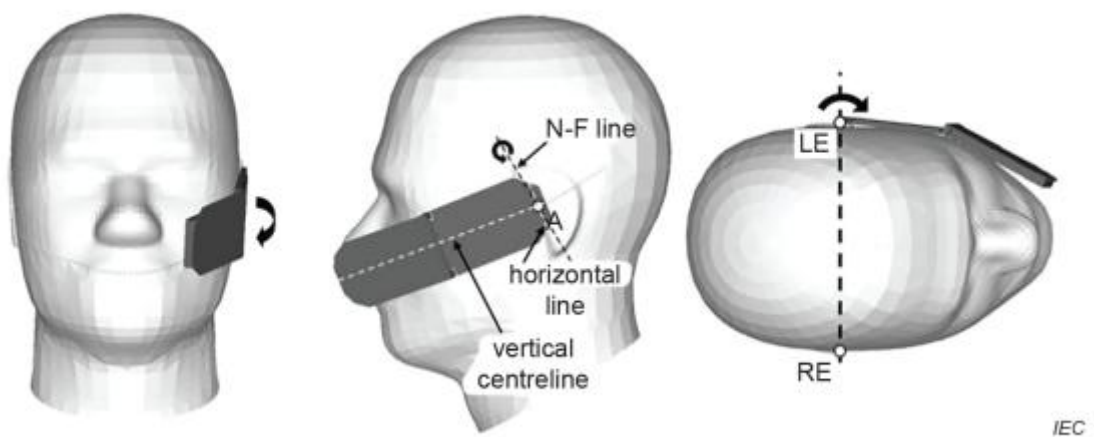


Figure 2g

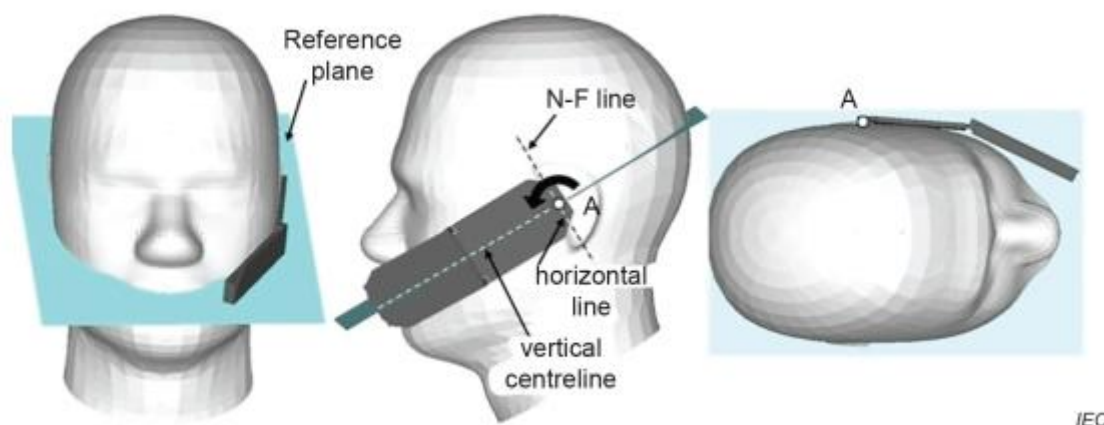


Figure 2h

6.1.2 Definition of the tilt position

The tilt position is established using steps a) through d) as follows.

- Repeat steps a) through j) of 6.1.1 to place the DUT in the cheek position (see Figure 2).
- While maintaining the orientation of the DUT, move the DUT away from the pinna along the line passing through RE and LE far enough to allow a rotation of the DUT away from the cheek by 15° .
- Rotate the DUT around the horizontal line by 15° (see Figure 3).
- While maintaining the orientation of the DUT, move the DUT towards the phantom on a line passing through RE and LE until any part of the DUT touches the ear. The tilt position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, e.g. an extended antenna in contact with the back of the head phantom, the angle of the DUT shall be reduced. In this case, the tilt position is obtained if any part of the DUT is in contact with the pinna and a second point on the DUT is in contact with the phantom, e.g. the antenna in contact with the back of the head.

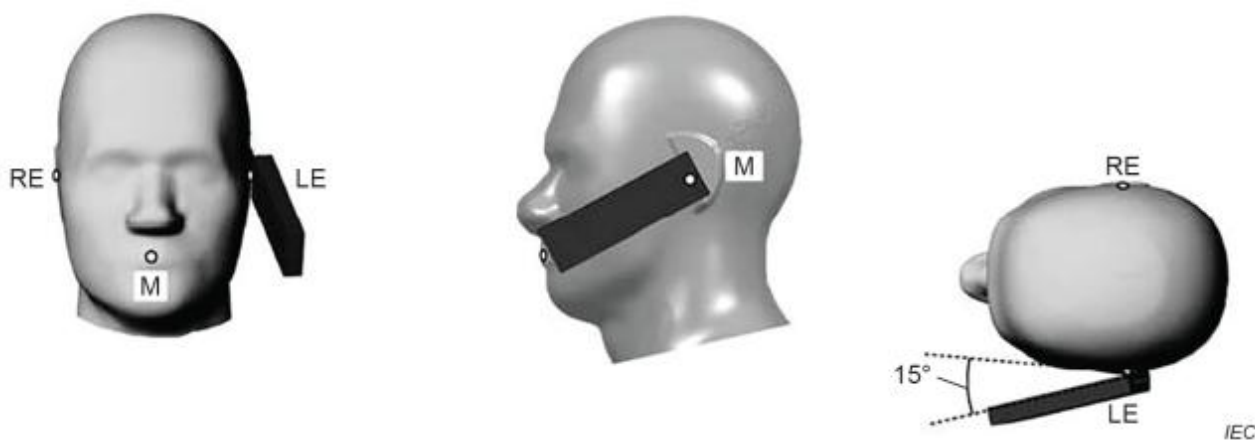


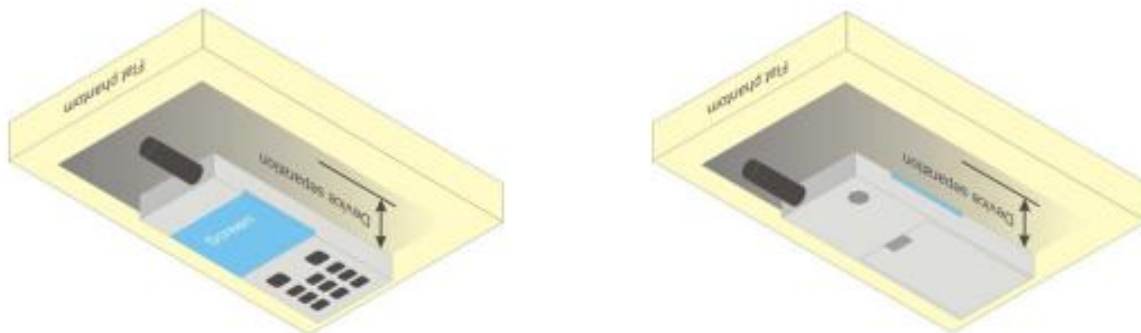
Figure 3

6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

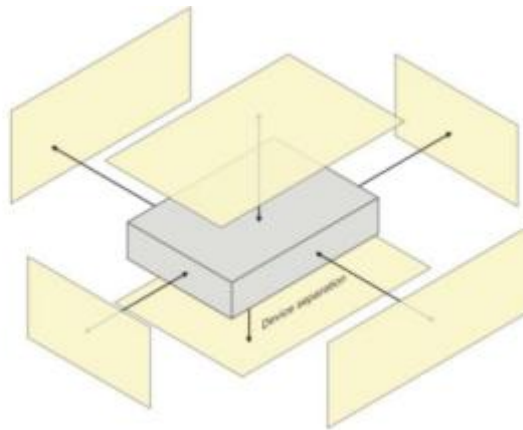
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance ≤ 15 mm to support compliance.



6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



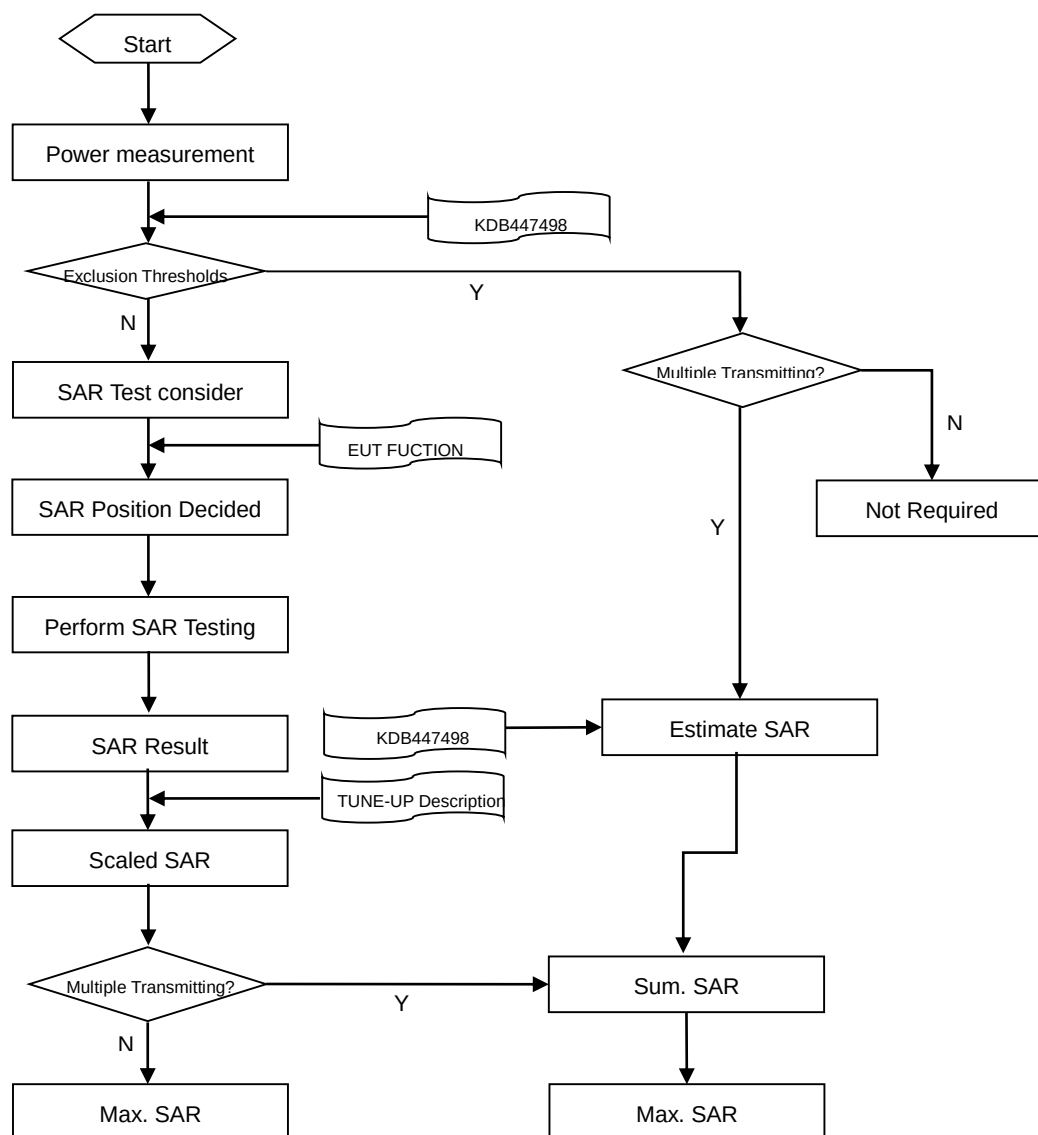
6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g or 10 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEC/IEEE 62209-1528:2020.

Area scan Parameter	$\leq 3\text{GHz}$	$3\text{ GHz} < f \leq 10\text{ GHz}$
Maximum distance between the measured points (geometric centre of the sensors) and the inner phantom surface	$5 \pm 1\text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5\text{ mm}$
Maximum spacing between adjacent measured points in mm	20, or half of the corresponding zoom scan length, whichever is smaller	$60 / f$, or half of the corresponding zoom scan length, whichever is smaller
Maximum angle between the probe axis and the phantom surface normal	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Tolerance in the probe angle	1°	1°
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium.		

Zoom scan Parameter	$\leq 3\text{GHz}$	$3\text{ GHz} < f \leq 10\text{ GHz}$
Maximum distance between the closest measured points and the phantom surface	5 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm
Maximum angle between the probe axis and the phantom surface normal	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Maximum spacing between measured points in the x- and y-directions (Δx and Δy , in mm)	8 mm	$24 / f$ mm
For uniform grids: Maximum spacing between measured points in the direction normal to the phantom shell	5 mm	$10 / (f - 1)$
For graded grids: Maximum spacing between the two closest measured points in the direction normal to the phantom shell	4 mm	$12 / f$ mm
For graded grids: Maximum incremental increase in the spacing between measured points in the direction normal to the phantom shell	1.5 mm	1.5 mm
Minimum edge length of the zoom scan volume in the x- and y-directions	30 mm	22 mm
Minimum edge length of the zoom scan volume in the direction normal to the phantom shell	30 mm	22 mm
Tolerance in the probe angle	1°	1°
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium.		

7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 1 g or 10 g. Area scan and zoom scan resolution setting follows IEC/IEEE 62209-1528:2020 quoted below.

When the 1 g or 10 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR

8 CONDUCTED RF OUPUT POWER

8.1 LTE

Please refer the document “BL-SH2580981-AP.pdf”.

8.2 NR

Please refer the document “BL-SH2580981-AP.pdf”.

8.3 WIFI

8.3.1 2.4G WIFI ANT0

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	11.41	12.00	Yes
		6	2437	11.57	12.00	Yes
		11	2462	11.26	12.00	Yes
	802.11g	1	2412	11.33	12.00	No
		6	2437	11.46	12.00	No
		11	2462	11.26	12.00	No
	802.11n(HT20)	1	2412	11.65	12.00	No
		6	2437	11.36	12.00	No
		11	2462	11.48	12.00	No
	802.11n(HT40)	3	2422	11.43	12.00	No
		6	2437	11.53	12.00	No
		9	2452	11.51	12.00	No
	802.11ax(HE20)	1	2412	11.60	12.00	No
		6	2437	11.41	12.00	No
		11	2462	11.57	12.00	No
	802.11ax(HE40)	3	2422	11.35	12.00	No
		6	2437	11.49	12.00	No
		9	2452	11.38	12.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.
- 3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.
Adjusted SAR = $0.618 * (15.85\text{mW}/15.85\text{mW}) = 0.618$ W/Kg, so 2.4G OFDM SAR test is not required.

8.3.2 2.4G WIFI ANT1

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	18.05	18.00	Yes
		6	2437	18.08	18.00	Yes
		11	2462	18.18	18.00	Yes
	802.11g	1	2412	16.22	17.00	No
		6	2437	16.49	17.00	No
		11	2462	16.55	17.00	No
	802.11n(HT20)	1	2412	16.08	17.00	No
		6	2437	16.33	17.00	No
		11	2462	16.38	17.00	No
	802.11n(HT40)	3	2422	11.68	12.00	No
		6	2437	11.51	12.00	No
		9	2452	11.76	12.00	No
	802.11ax(HE20)	1	2412	11.63	12.00	No
		6	2437	11.39	12.00	No
		11	2462	11.64	12.00	No
	802.11ax(HE40)	3	2422	11.57	12.00	No
		6	2437	11.41	12.00	No
		9	2452	11.70	12.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.

8.3.3 2.4G WIFI Ant.MIMO

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11g	1	2412	14.52	15.00	No
		6	2437	14.19	15.00	No
		11	2462	14.31	15.00	No
	802.11n(HT20)	1	2412	14.36	15.00	No
		6	2437	14.32	15.00	No
		11	2462	14.19	15.00	No
	802.11n(HT40)	3	2422	14.72	15.00	Yes
		6	2437	14.28	15.00	Yes
		9	2452	14.21	15.00	Yes
	802.11ax(HE20)	1	2412	14.40	15.00	No
		6	2437	14.66	15.00	No
		11	2462	14.23	15.00	No
	802.11ax(HE40)	3	2422	14.62	15.00	No
		6	2437	14.71	15.00	No
		9	2452	14.60	15.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.

8.3.4 5G WIFI Ant.0

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	10.45	11.00	No
		44	5220	10.72	11.00	No
		48	5240	10.65	11.00	No
	802.11n(HT20)	36	5180	10.69	11.00	No
		44	5220	10.60	11.00	No
		48	5240	10.55	11.00	No
	802.11n(HT40)	38	5190	10.49	11.00	No
		46	5230	10.77	11.00	No
	802.11ac(VHT20)	36	5180	10.72	11.00	No
		44	5220	10.63	11.00	No
		48	5240	10.57	11.00	No
	802.11ac(VHT40)	38	5190	10.50	11.00	No
		46	5230	10.79	11.00	No
	802.11ac(VHT80)	42	5210	10.75	11.00	Yes
	802.11ax(HE20)	36	5180	10.34	11.00	No
		44	5220	10.69	11.00	No
		48	5240	10.63	11.00	No
	802.11ax(HE40)	38	5190	10.73	11.00	No
		46	5230	10.64	11.00	No
	802.11ax(HE80)	42	5210	10.65	11.00	No
5.3 (5.25~5.35)	802.11a	52	5260	10.33	11.00	No
		60	5300	10.69	11.00	No
		64	5320	10.57	11.00	No
	802.11n(HT20)	52	5260	10.22	11.00	No
		60	5300	10.57	11.00	No
		64	5320	10.44	11.00	No
	802.11n(HT40)	54	5270	10.31	11.00	No
		62	5310	10.68	11.00	No
	802.11ac(VHT20)	52	5260	10.19	11.00	No
		60	5300	10.57	11.00	No
		64	5320	10.43	11.00	No
	802.11ac(VHT40)	54	5270	10.29	11.00	No
		62	5310	10.67	11.00	No
	802.11ac(VHT80)	58	5290	10.65	11.00	Yes
	802.11ac(VHT160)	50	5250	10.65	11.00	No
	802.11ax(HE20)	52	5260	10.20	11.00	No

		60	5300	10.71	11.00	No
		64	5320	10.61	11.00	No
	802.11ax(HE40)	54	5270	10.62	11.00	No
		62	5310	10.67	11.00	No
	802.11ax(HE80)	58	5290	10.62	11.00	No
	802.11ax(HE160)	50	5250	10.55	11.00	No
5.6 (5.47~5.725)	802.11a	100	5500	10.43	11.00	No
		116	5580	10.49	11.00	No
		140	5700	10.72	11.00	No
	802.11n(HT20)	100	5500	10.31	11.00	No
		116	5580	10.46	11.00	No
		140	5700	10.59	11.00	No
	802.11n(HT40)	102	5510	10.54	11.00	No
		118	5590	10.50	11.00	No
		134	5670	10.28	11.00	No
	802.11ac(VHT20)	100	5500	10.28	11.00	No
		116	5580	10.28	11.00	No
		140	5700	10.58	11.00	No
	802.11ac(VHT40)	102	5510	10.52	11.00	No
		118	5590	10.66	11.00	No
		134	5670	10.52	11.00	No
	802.11ac(VHT80)	106	5530	10.40	11.00	No
		122	5610	10.53	11.00	No
	802.11ac(VHT160)	114	5570	10.50	11.00	Yes
	802.11ax(HE20)	100	5500	10.24	11.00	No
		116	5580	10.52	11.00	No
		140	5700	10.52	11.00	No
	802.11ax(HE40)	102	5510	10.35	11.00	No
		118	5590	10.56	11.00	No
		134	5670	10.62	11.00	No
	802.11ax(HE80)	106	5530	10.45	11.00	No
		122	5610	10.58	11.00	No
	802.11ax(HE160)	114	5570	10.40	11.00	No
5.8 (5.725~5.850)	802.11a	149	5745	11.25	12.00	No
		157	5785	11.53	12.00	No
		165	5825	11.54	12.00	No
	802.11n(HT20)	149	5745	11.75	12.00	No
		157	5785	11.35	12.00	No
		165	5825	11.44	12.00	No

	802.11n(HT40)	151	5755	11.34	12.00	No
		159	5795	11.62	12.00	No
	802.11ac(VHT20)	149	5745	11.23	12.00	No
		157	5785	11.38	12.00	No
		165	5825	11.46	12.00	No
	802.11ac(VHT40)	151	5755	11.30	12.00	No
		159	5795	11.60	12.00	No
	802.11ac(VHT80)	155	5775	11.33	12.00	Yes
	802.11ax(HE20)	149	5745	11.20	12.00	No
		157	5785	11.36	12.00	No
		165	5825	11.45	12.00	No
	802.11ax(HE40)	151	5755	11.18	12.00	No
		159	5795	11.35	12.00	No
	802.11ax(HE80)	155	5775	11.36	12.00	No

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.3.5 5G WIFI Ant.1

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	10.65	11.00	No
		44	5220	10.56	11.00	No
		48	5240	10.39	11.00	No
	802.11n(HT20)	36	5180	10.53	11.00	No
		44	5220	10.43	11.00	No
		48	5240	10.42	11.00	No
	802.11n(HT40)	38	5190	10.68	11.00	No
		46	5230	10.56	11.00	No
	802.11ac(VHT20)	36	5180	10.53	11.00	No
		44	5220	10.45	11.00	No
		48	5240	10.61	11.00	No
	802.11ac(VHT40)	38	5190	10.71	11.00	No
		46	5230	10.56	11.00	No
	802.11ac(VHT80)	42	5210	10.55	11.00	Yes
	802.11ax(HE20)	36	5180	10.58	11.00	No
		44	5220	10.50	11.00	No
		48	5240	10.32	11.00	No
	802.11ax(HE40)	38	5190	10.54	11.00	No

		46	5230	10.43	11.00	No
	802.11ax(HE80)	42	5210	10.66	11.00	No
5.3 (5.25~5.35)	802.11a	52	5260	10.70	11.00	No
		60	5300	10.57	11.00	No
		64	5320	10.67	11.00	No
	802.11n(HT20)	52	5260	10.62	11.00	No
		60	5300	10.47	11.00	No
		64	5320	10.57	11.00	No
	802.11n(HT40)	54	5270	10.38	11.00	No
		62	5310	10.75	11.00	No
	802.11ac(VHT20)	52	5260	10.55	11.00	No
		60	5300	10.46	11.00	No
		64	5320	10.57	11.00	No
	802.11ac(VHT40)	54	5270	10.40	11.00	No
		62	5310	10.58	11.00	No
	802.11ac(VHT80)	58	5290	10.61	11.00	Yes
	802.11ac(VHT160)	50	5250	10.40	11.00	No
	802.11ax(HE20)	52	5260	10.69	11.00	No
		60	5300	10.46	11.00	No
		64	5320	10.56	11.00	No
	802.11ax(HE40)	54	5270	10.76	11.00	No
		62	5310	10.64	11.00	No
	802.11ax(HE80)	58	5290	10.62	11.00	No
	802.11ax(HE160)	50	5250	10.32	11.00	No
5.6 (5.47~5.725)	802.11a	100	5500	10.36	11.00	No
		116	5580	10.76	11.00	No
		140	5700	10.81	11.00	No
	802.11n(HT20)	100	5500	10.27	11.00	No
		116	5580	10.67	11.00	No
		140	5700	10.73	11.00	No
	802.11n(HT40)	102	5510	10.58	11.00	No
		118	5590	10.69	11.00	No
		134	5670	10.29	11.00	No
	802.11ac(VHT20)	100	5500	10.32	11.00	No
		116	5580	10.72	11.00	No
		140	5700	10.76	11.00	No
	802.11ac(VHT40)	102	5510	10.61	11.00	No
		118	5590	10.58	11.00	No
		134	5670	10.43	11.00	No

	802.11ac(VHT80)	106	5530	10.62	11.00	No
		122	5610	10.64	11.00	No
	802.11ac(VHT160)	114	5570	10.33	11.00	Yes
	802.11ax(HE20)	100	5500	10.35	11.00	No
		116	5580	10.72	11.00	No
		140	5700	10.54	11.00	No
	802.11ax(HE40)	102	5510	10.42	11.00	No
		118	5590	10.76	11.00	No
		134	5670	10.65	11.00	No
	802.11ax(HE80)	106	5530	10.67	11.00	No
		122	5610	10.50	11.00	No
	802.11ax(HE160)	114	5570	10.29	11.00	No
5.8 (5.725~5.850)	802.11a	149	5745	11.50	12.00	No
		157	5785	11.47	12.00	No
		165	5825	11.30	12.00	No
	802.11n(HT20)	149	5745	11.40	12.00	No
		157	5785	11.36	12.00	No
		165	5825	11.58	12.00	No
	802.11n(HT40)	151	5755	11.57	12.00	No
		159	5795	11.57	12.00	No
	802.11ac(VHT20)	149	5745	11.38	12.00	No
		157	5785	11.40	12.00	No
		165	5825	11.61	12.00	No
	802.11ac(VHT40)	151	5755	11.59	12.00	No
		159	5795	11.60	12.00	No
	802.11ac(VHT80)	155	5775	11.46	12.00	Yes
	802.11ax(HE20)	149	5745	11.40	12.00	No
		157	5785	11.38	12.00	No
		165	5825	11.60	12.00	No
	802.11ax(HE40)	151	5755	11.40	12.00	No
		159	5795	11.41	12.00	No
	802.11ax(HE80)	155	5775	11.52	12.00	No

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.3.6 5G WIFI Ant.MIMO

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	13.72	14.00	No
		44	5220	13.55	14.00	No
		48	5240	13.45	14.00	No
	802.11n(HT20)	36	5180	13.59	14.00	No
		44	5220	13.43	14.00	No
		48	5240	13.46	14.00	No
	802.11n(HT40)	38	5190	13.80	14.00	No
		46	5230	13.69	14.00	No
	802.11ac(VHT20)	36	5180	13.67	14.00	No
		44	5220	13.56	14.00	No
		48	5240	13.46	14.00	No
	802.11ac(VHT40)	38	5190	13.79	14.00	No
		46	5230	13.67	14.00	No
	802.11ac(VHT80)	42	5210	13.62	14.00	Yes
	802.11ax(HE20)	36	5180	13.74	14.00	No
		44	5220	13.58	14.00	No
		48	5240	13.46	14.00	No
	802.11ax(HE40)	38	5190	13.66	14.00	No
		46	5230	13.50	14.00	No
	802.11ax(HE80)	42	5210	13.67	14.00	No
5.3 (5.25~5.35)	802.11a	52	5260	13.56	14.00	No
		60	5300	13.52	14.00	No
		64	5320	13.73	14.00	No
	802.11n(HT20)	52	5260	13.48	14.00	No
		60	5300	13.67	14.00	No
		64	5320	13.64	14.00	No
	802.11n(HT40)	54	5270	13.54	14.00	No
		62	5310	13.51	14.00	No
	802.11ac(VHT20)	52	5260	13.45	14.00	No
		60	5300	13.64	14.00	No
		64	5320	13.60	14.00	No
	802.11ac(VHT40)	54	5270	13.49	14.00	No
		62	5310	13.54	14.00	No
	802.11ac(VHT80)	58	5290	13.66	14.00	Yes
	802.11ac(VHT160)	50	5250	13.49	14.00	No

	802.11ax(HE20)	52	5260	13.59	14.00	No
		60	5300	13.57	14.00	No
		64	5320	13.47	14.00	No
	802.11ax(HE40)	54	5270	13.77	14.00	No
		62	5310	13.51	14.00	No
	802.11ax(HE80)	58	5290	13.68	14.00	No
	802.11ax(HE160)	50	5250	13.51	14.00	No
5.6 (5.47~5.725)	802.11a	100	5500	13.47	14.00	No
		116	5580	13.60	14.00	No
		140	5700	13.71	14.00	No
	802.11n(HT20)	100	5500	13.40	14.00	No
		116	5580	13.52	14.00	No
		140	5700	13.64	14.00	No
	802.11n(HT40)	102	5510	13.54	14.00	No
		118	5590	13.51	14.00	No
		134	5670	13.60	14.00	No
	802.11ac(VHT20)	100	5500	13.38	14.00	No
		116	5580	13.53	14.00	No
		140	5700	13.58	14.00	No
	802.11ac(VHT40)	102	5510	13.55	14.00	No
		118	5590	13.68	14.00	No
		134	5670	13.58	14.00	No
	802.11ac(VHT80)	106	5530	13.44	14.00	No
		122	5610	13.40	14.00	No
	802.11ac(VHT160)	114	5570	13.52	14.00	Yes
	802.11ax(HE20)	100	5500	13.40	14.00	No
		116	5580	13.52	14.00	No
		140	5700	13.58	14.00	No
	802.11ax(HE40)	102	5510	13.46	14.00	No
		118	5590	13.36	14.00	No
		134	5670	13.66	14.00	No
	802.11ax(HE80)	106	5530	13.53	14.00	No
		122	5610	13.48	14.00	No
	802.11ax(HE160)	114	5570	13.43	14.00	No
5.8 (5.725~5.850)	802.11a	149	5745	14.13	15.00	No
		157	5785	14.18	15.00	No
		165	5825	13.86	15.00	No
	802.11n(HT20)	149	5745	14.12	15.00	No
		157	5785	14.08	15.00	No

	802.11n(HT40)	165	5825	14.06	15.00	No
		151	5755	13.92	15.00	No
		159	5795	13.87	15.00	No
	802.11ac(VHT20)	149	5745	14.12	15.00	No
		157	5785	14.07	15.00	No
		165	5825	13.76	15.00	No
	802.11ac(VHT40)	151	5755	14.13	15.00	No
		159	5795	14.05	15.00	No
	802.11ac(VHT80)	155	5775	14.18	15.00	Yes
	802.11ax(HE20)	149	5745	14.08	15.00	No
		157	5785	14.12	15.00	No
		165	5825	13.79	15.00	No
	802.11ax(HE40)	151	5755	13.99	15.00	No
		159	5795	14.15	15.00	No
	802.11ax(HE80)	155	5775	14.22	15.00	No

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.3.7 6G WIFI Ant.0

Band (GHz)	Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6G(5.995-7.115)	802.11ax(HE20)	1	5955	7.78	9.00	No
		45	6175	6.35	8.00	No
		93	6415	6.12	8.00	No
		97	6435	7.74	9.00	No
		105	6475	7.65	9.00	No
		113	6515	7.40	9.00	No
		117	6535	7.26	9.00	No
		153	6715	7.57	9.00	No
		181	6855	7.49	9.00	No
		185	6875	7.55	9.00	No
		213	7015	7.16	9.00	No
		229	7095	7.53	9.00	No
		233	7115	7.50	9.00	No
	802.11ax40(HE40)	3	5965	9.56	11.00	No
		43	6165	9.77	11.00	No
		91	6405	9.85	11.00	No
		99	6445	8.99	10.00	No
		107	6485	8.98	10.00	No

		115	6525	8.76	10.00	No
		123	6565	8.89	10.00	No
		155	6725	9.05	10.00	No
		179	6845	8.33	10.00	No
		187	6885	8.45	10.00	No
		211	7005	8.38	10.00	No
		227	7085	8.33	10.00	No
	802.11ax(HE80)	7	5985	9.40	11.00	No
		39	6145	9.91	11.00	No
		87	6385	9.16	11.00	No
		103	6465	11.44	12.00	No
		119	6545	11.49	12.00	No
		135	6625	10.88	11.00	No
		151	6705	10.71	11.00	No
		167	6785	10.58	11.00	No
		183	6865	9.76	11.00	No
		199	6945	9.79	11.00	No
		215	7025	9.61	11.00	No
	802.11ax(HE160)	15	6025	11.57	12.00	Yes
		47	6185	11.40	12.00	Yes
		79	6345	11.45	12.00	Yes
		111	6505	11.25	12.00	Yes
		143	6665	10.70	12.00	Yes
		175	6825	11.77	12.00	Yes
		207	6985	11.54	12.00	Yes

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.

8.3.8 6G WIFI Ant.1

Band (GHz)	Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6G(5.995-7.115)	802.11ax(HE20)	1	5955	7.07	9.00	No
		45	6175	6.81	8.00	No
		93	6415	6.71	8.00	No
		97	6435	7.20	9.00	No
		105	6475	7.12	9.00	No

		113	6515	7.19	9.00	No
		117	6535	7.84	9.00	No
		153	6715	7.85	9.00	No
		181	6855	8.04	9.00	No
		185	6875	7.59	9.00	No
		213	7015	7.12	9.00	No
		229	7095	7.21	9.00	No
		233	7115	7.35	9.00	No
	802.11ax(HE40)	3	5965	8.90	10.00	No
		43	6165	8.07	10.00	No
		91	6405	8.74	10.00	No
		99	6445	8.06	10.00	No
		107	6485	7.99	9.50	No
		115	6525	9.94	10.00	No
		123	6565	9.28	10.00	No
		155	6725	10.83	10.00	No
		179	6845	10.68	10.00	No
		187	6885	8.83	10.00	No
		211	7005	8.74	10.00	No
		227	7085	8.07	10.00	No
	802.11ax(HE80)	7	5985	10.29	11.00	No
		39	6145	10.40	11.00	No
		87	6385	10.33	11.00	No
		103	6465	11.52	12.00	No
		119	6545	11.46	12.00	No
		135	6625	11.75	12.00	No
		151	6705	11.37	12.00	No
		167	6785	11.80	12.00	No
		183	6865	11.61	12.00	No
		199	6945	11.70	12.00	No
		215	7025	11.24	12.00	No
	802.11ax(HE160)	15	6025	11.31	12.00	Yes
		47	6185	11.65	12.00	Yes
		79	6345	11.34	12.00	Yes
		111	6505	11.60	12.00	Yes
		143	6665	11.38	12.00	Yes
		175	6825	11.28	12.00	Yes
		207	6985	11.58	12.00	Yes

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.

8.3.9 6G WIFI Ant.MIMO

Band (GHz)	Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6G(5.995-7.115)	802.11ax(HE20)	1	5955	3.84	5.00	No
		45	6175	1.28	3.00	No
		93	6415	-0.28	1.00	No
		97	6435	2.78	4.00	No
		105	6475	2.54	4.00	No
		113	6515	2.67	4.00	No
		117	6535	2.59	4.00	No
		153	6715	3.10	5.00	No
		181	6855	3.52	5.00	No
		185	6875	3.71	5.00	No
		213	7015	3.48	5.00	No
		229	7095	2.95	4.00	No
		233	7115	2.43	4.00	No
	802.11ax40(HE40)	3	5965	6.02	7.00	No
		43	6165	4.37	6.00	No
		91	6405	2.99	4.50	No
		99	6445	6.04	7.00	No
		107	6485	5.85	7.00	No
		115	6525	5.79	7.00	No
		123	6565	6.19	7.00	No
		155	6725	5.76	7.00	No
		179	6845	5.93	7.00	No
		187	6885	6.31	7.00	No
		211	7005	6.32	7.00	No
		227	7085	6.06	7.00	No
	802.11ax(HE80)	7	5985	9.11	11.00	No
		39	6145	7.93	9.50	No
		87	6385	5.81	7.50	No
		103	6465	9.01	11.00	No
		119	6545	9.05	11.00	No

		135	6625	8.54	10.00	No
		151	6705	8.29	10.00	No
		167	6785	8.77	10.00	No
		183	6865	9.30	11.00	No
		199	6945	9.72	11.00	No
		215	7025	9.62	11.00	No
	802.11ax(HE160)	15	6025	11.59	12.00	Yes
		47	6185	10.74	12.00	Yes
		79	6345	9.21	11.00	Yes
		111	6505	11.15	12.00	Yes
		143	6665	10.80	12.00	Yes
		175	6825	11.36	12.00	Yes
		207	6985	11.67	12.00	Yes

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

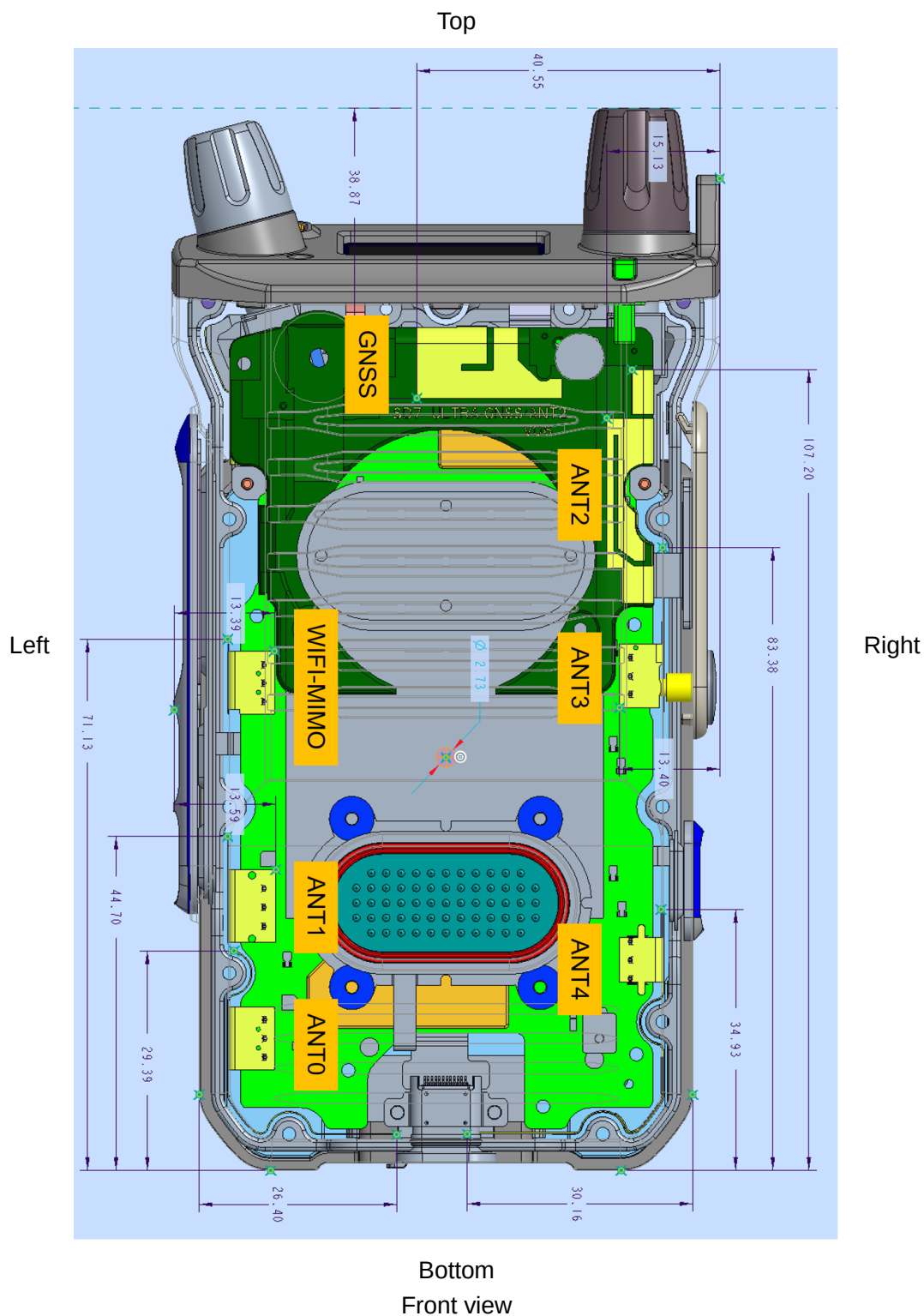
1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.

8.4 Bluetooth

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	7.96	8.56	5.43	7.39	8.00	4.77
Tune-Up Limit (dBm)	9.00	9.00	6.00	9.00	9.00	6.00
SAR Test Require	NO	NO	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Conducted Power (dBm)	7.85	8.51	5.37	/	/	/
Tune-Up Limit (dBm)	9.00	9.00	6.00	/	/	/
SAR Test Require	NO	NO	NO	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Conducted Power (dBm)	14.91	15.92	13.37	15.72	16.18	14.42
Tune-Up Limit (dBm)	16.50	16.50	14.50	16.50	16.50	14.50
SAR Test Require	YES	YES	YES	NO	NO	NO

Note 1: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using BLE-1Mbps modulation, and SAR measurement is not required for other mode. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

9 TEST EXCLUSION CONSIDERATION



Antenna	Support Bands
Ant.0	LTE B2/B4/B7/B25/B30/B66/B38/B41 NR n2/n7/n25/n30/n66/n38/n41 WIFI 2.4G/WIFI 5G/WIFI 6G BT
Ant.1	LTE B42/B43/B48 NR n48/n77/n78 WIFI 2.4G/WIFI 5G/WIFI 6G
Ant.2	Only RX
Ant.3	Only RX
Ant.4	LTE B5/B12/B13/B14/B17/B26/B71 NR n5/n12/n13/n14/n26/n71/n38/n41/n48/n77n/78

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
Ant.0	<25	<25	<25	>25	>25	<25
Ant.1	<25	<25	<25	>25	>25	>25
Ant.4	<25	<25	>25	<25	>25	<25

Note: 1. Per KDB 941225 DO6, When the overall length and width of a device is > 9 cm *5 cm, a test separation distance of 10 mm is required for hotspot mode SAR measurements and hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.

10 TEST RESULT

Note: Refer to ANNEX C for the detailed test data for each test configuration.

10.1LTE Band 2

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B2	Body-worn														
LTE B2	Ant.0	Back side	0mm	QPSK-20MHz	18900	1880	1	0	-0.07	0.243	22.39	23.50	1.291	0.314	/
LTE B2	Ant.0	Back side	0mm		18700	1880	1	0	0.16	0.307	22.37	23.50	1.297	0.398	1
LTE B2	Ant.0	Back side	0mm		19100	1900	1	0	0.11	0.221	22.32	23.50	1.312	0.290	/
LTE B2	Ant.0	Back side	0mm		18900	1880	50	0	-0.04	0.198	21.56	22.50	1.242	0.243	/
LTE B2	Ant.0	Back side	0mm		18700	1880	50	0	0.19	0.239	21.27	22.50	1.327	0.317	/
LTE B2	Ant.0	Back side	0mm		19100	1900	50	0	-0.06	0.188	21.30	22.50	1.318	0.248	/
LTE B2	Hotspot Front of face														
LTE B2	Ant.0	Front side	10mm	QPSK-20MHz	18900	1880	1	0	0.10	0.137	22.39	23.50	1.291	0.177	/
LTE B2	Ant.0	Back side	10mm		18900	1880	1	0	0.11	0.102	22.39	23.50	1.291	0.132	/
LTE B2	Ant.0	Left side	10mm		18900	1880	1	0	-0.19	0.233	22.39	23.50	1.291	0.301	/
LTE B2	Ant.0	Bottom side	10mm		18900	1880	1	0	0.12	0.048	22.39	23.50	1.291	0.062	/
LTE B2	Ant.0	Left side	10mm		18700	1880	1	0	-0.09	0.254	22.37	23.50	1.297	0.329	2
LTE B2	Ant.0	Left side	10mm		19100	1900	1	0	-0.08	0.248	22.32	23.50	1.312	0.325	/
LTE B2	Ant.0	Front side	10mm		18900	1880	50	0	-0.17	0.121	21.56	22.50	1.242	0.150	/
LTE B2	Ant.0	Back side	10mm		18900	1880	50	0	-0.03	0.083	21.56	22.50	1.242	0.103	/
LTE B2	Ant.0	Left side	10mm		18900	1880	50	0	0.10	0.215	21.56	22.50	1.242	0.267	/
LTE B2	Ant.0	Bottom side	10mm		18900	1880	50	0	-0.01	0.020	21.56	22.50	1.242	0.025	/
LTE B2	Ant.0	Left side	10mm		18700	1880	50	0	-0.04	0.221	21.27	22.50	1.327	0.293	/
LTE B2	Ant.0	Left side	10mm		19100	1900	50	0	-0.11	0.208	21.30	22.50	1.318	0.274	/

10.2LTE Band 4

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B4	Body-worn														
LTE B4	Ant.0	Back side	0mm	QPSK-20MHz	20175	1732.5	1	0	-0.10	0.238	22.97	24.00	1.268	0.302	/
LTE B4	Ant.0	Back side	0mm		20050	1720	1	0	0.03	0.348	22.75	24.00	1.334	0.464	3
LTE B4	Ant.0	Back side	0mm		20300	1745	1	0	-0.12	0.249	22.76	24.00	1.330	0.331	/
LTE B4	Ant.0	Back side	0mm		20175	1732.5	50	0	-0.16	0.198	21.81	23.00	1.315	0.260	/
LTE B4	Ant.0	Back side	0mm		20050	1720	50	0	-0.14	0.189	21.84	23.00	1.306	0.247	/
LTE B4	Ant.0	Back side	0mm		20300	1745	50	0	0.14	0.185	21.79	23.00	1.321	0.244	/
LTE B4	Hotspot Front of face														
LTE B4	Ant.0	Front side	10mm	QPSK-20MHz	20175	1732.5	1	0	-0.08	0.139	22.97	24.00	1.268	0.176	/
LTE B4	Ant.0	Back side	10mm		20175	1732.5	1	0	-0.01	0.121	22.97	24.00	1.268	0.153	/
LTE B4	Ant.0	Left side	10mm		20175	1732.5	1	0	0.18	0.152	22.97	24.00	1.268	0.193	/
LTE B4	Ant.0	Bottom side	10mm		20175	1732.5	1	0	0.18	0.065	22.97	24.00	1.268	0.082	/
LTE B4	Ant.0	Left side	10mm		20050	1720	1	0	0.10	0.134	22.75	24.00	1.334	0.179	/
LTE B4	Ant.0	Left side	10mm		20300	1745	1	0	-0.02	0.165	22.76	24.00	1.330	0.220	4
LTE B4	Ant.0	Front side	10mm		20175	1732.5	50	0	-0.10	0.107	21.81	23.00	1.315	0.141	/
LTE B4	Ant.0	Back side	10mm		20175	1732.5	50	0	-0.13	0.094	21.81	23.00	1.315	0.124	/
LTE B4	Ant.0	Left side	10mm		20175	1732.5	50	0	-0.12	0.127	21.81	23.00	1.315	0.167	/
LTE B4	Ant.0	Bottom side	10mm		20175	1732.5	50	0	0.08	0.054	21.81	23.00	1.315	0.071	/
LTE B4	Ant.0	Left side	10mm		20050	1720	50	0	-0.18	0.117	21.84	23.00	1.306	0.153	/
LTE B4	Ant.0	Left side	10mm		20300	1745	50	0	-0.01	0.143	21.79	23.00	1.321	0.189	/

10.3LTE Band 5

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B5	Body-worn														
LTE B5	Ant.4	Back side	0mm	QPSK-10MHz	20525	836.5	1	0	-0.12	0.383	23.34	24.50	1.306	0.500	/
LTE B5	Ant.4	Back side	0mm		20450	829	1	0	-0.04	0.300	23.28	24.50	1.324	0.397	/
LTE B5	Ant.4	Back side	0mm		20600	844	1	0	0.02	0.399	23.32	24.50	1.312	0.524	5
LTE B5	Ant.4	Back side	0mm		20525	836.5	25	0	-0.11	0.288	22.40	23.50	1.288	0.371	/
LTE B5	Ant.4	Back side	0mm		20450	829	25	0	0.16	0.265	22.22	23.50	1.343	0.356	/
LTE B5	Ant.4	Back side	0mm		20600	844	25	0	-0.03	0.336	22.31	23.50	1.315	0.442	/
LTE B5	Hotspot	Front of face													
LTE B5	Ant.4	Front side	10mm	QPSK-10MHz	20525	836.5	1	0	0.09	0.274	23.34	24.50	1.306	0.358	/
LTE B5	Ant.4	Back side	10mm		20525	836.5	1	0	0.19	0.147	23.34	24.50	1.306	0.192	/
LTE B5	Ant.4	Right side	10mm		20525	836.5	1	0	-0.01	0.106	23.34	24.50	1.306	0.138	/
LTE B5	Ant.4	Bottom side	10mm		20525	836.5	1	0	-0.13	0.228	23.34	24.50	1.306	0.298	/
LTE B5	Ant.4	Front side	10mm		20450	829	1	0	-0.10	0.261	23.28	24.50	1.324	0.346	/
LTE B5	Ant.4	Front side	10mm		20600	844	1	0	-0.03	0.292	23.32	24.50	1.312	0.383	6
LTE B5	Ant.4	Front side	10mm		20525	836.5	25	0	-0.01	0.240	22.40	23.50	1.288	0.309	/
LTE B5	Ant.4	Back side	10mm		20525	836.5	25	0	-0.05	0.121	22.40	23.50	1.288	0.156	/
LTE B5	Ant.4	Right side	10mm		20525	836.5	25	0	0.02	0.075	22.40	23.50	1.288	0.097	/
LTE B5	Ant.4	Bottom side	10mm		20525	836.5	25	0	-0.02	0.191	22.40	23.50	1.288	0.246	/
LTE B5	Ant.4	Front side	10mm		20450	829	25	0	0.14	0.203	22.22	23.50	1.343	0.273	/
LTE B5	Ant.4	Front side	10mm		20600	844	25	0	-0.08	0.265	22.31	23.50	1.315	0.349	/

10.4LTE Band 7

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B7	Body-worn														
LTE B7	Ant.0	Back side	0mm	QPSK-20MHz	21100	2535	1	0	0.13	0.320	22.73	23.50	1.194	0.382	/
LTE B7	Ant.0	Back side	0mm		20850	2510	1	0	0.09	0.331	22.64	23.50	1.219	0.403	7
LTE B7	Ant.0	Back side	0mm		21350	2560	1	0	0.05	0.315	22.68	23.50	1.208	0.380	/
LTE B7	Ant.0	Back side	0mm		21100	2535	50	0	-0.10	0.301	21.97	22.50	1.130	0.340	/
LTE B7	Ant.0	Back side	0mm		20850	2510	50	0	0.06	0.314	21.86	22.50	1.159	0.364	/
LTE B7	Ant.0	Back side	0mm		21350	2560	50	0	0.03	0.282	21.97	22.50	1.130	0.319	/
LTE B7	Hotspot	Front of face													
LTE B7	Ant.0	Front side	10mm	QPSK-20MHz	21100	2535	1	0	-0.18	0.190	22.73	23.50	1.194	0.227	/
LTE B7	Ant.0	Back side	10mm		21100	2535	1	0	-0.08	0.101	22.73	23.50	1.194	0.121	/
LTE B7	Ant.0	Left side	10mm		21100	2535	1	0	0.06	0.217	22.73	23.50	1.194	0.259	/
LTE B7	Ant.0	Bottom side	10mm		21100	2535	1	0	0.01	0.204	22.73	23.50	1.194	0.244	/
LTE B7	Ant.0	Left side	10mm		20850	2510	1	0	0.13	0.212	22.64	23.50	1.219	0.259	/
LTE B7	Ant.0	Left side	10mm		21350	2560	1	0	0.02	0.216	22.68	23.50	1.208	0.261	8
LTE B7	Ant.0	Front side	10mm		21100	2535	50	0	-0.01	0.153	21.97	22.50	1.130	0.173	/
LTE B7	Ant.0	Back side	10mm		21100	2535	50	0	0.08	0.083	21.97	22.50	1.130	0.094	/
LTE B7	Ant.0	Left side	10mm		21100	2535	50	0	-0.02	0.164	21.97	22.50	1.130	0.186	/
LTE B7	Ant.0	Bottom side	10mm		21100	2535	50	0	-0.09	0.129	21.97	22.50	1.130	0.146	/
LTE B7	Ant.0	Left side	10mm		20850	2510	50	0	0.03	0.160	21.86	22.50	1.159	0.186	/
LTE B7	Ant.0	Left side	10mm		21350	2560	50	0	0.05	0.155	21.97	22.50	1.130	0.175	/

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B7	Body-worn														
LTE B7	Ant.0	Back side	0mm	QPSK-20MHz	20850+21048	2510	1+99	1+0	0.04	0.318	22.51	23.50	1.256	0.399	
LTE B7	Hotspot Front of face														
LTE B7	Ant.0	Left side	10mm	QPSK-20MHz	21350+21152	2560	1+0	0+99	0.01	0.201	22.47	23.50	1.268	0.255	

10.5LTE Band 12

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B12	Body-worn														
LTE B12	Ant.4	Back side	0mm	QPSK-10MHz	23095	707.5	1	0	-0.12	0.108	23.48	24.50	1.265	0.137	/
LTE B12	Ant.4	Back side	0mm		23060	704	1	0	-0.06	0.106	23.46	24.50	1.271	0.135	/
LTE B12	Ant.4	Back side	0mm		23130	711	1	0	-0.06	0.118	23.35	24.50	1.303	0.154	9
LTE B12	Ant.4	Back side	0mm		23095	707.5	25	0	-0.18	0.111	22.45	23.50	1.274	0.141	/
LTE B12	Ant.4	Back side	0mm		23060	704	25	0	0.17	0.106	22.44	23.50	1.276	0.135	/
LTE B12	Ant.4	Back side	0mm		23130	711	25	0	0.12	0.099	22.44	23.50	1.276	0.126	/
LTE B12	Hotspot	Front of face													
LTE B12	Ant.4	Front side	10mm	QPSK-10MHz	23095	707.5	1	0	-0.05	0.126	23.48	24.50	1.265	0.159	10
LTE B12	Ant.4	Back side	10mm		23095	707.5	1	0	0.03	0.093	23.48	24.50	1.265	0.118	/
LTE B12	Ant.4	Right side	10mm		23095	707.5	1	0	-0.04	0.120	23.48	24.50	1.265	0.152	/
LTE B12	Ant.4	Bottom side	10mm		23095	707.5	1	0	-0.04	0.061	23.48	24.50	1.265	0.077	/
LTE B12	Ant.4	Front side	10mm		23060	704	1	0	-0.02	0.092	23.46	24.50	1.271	0.117	/
LTE B12	Ant.4	Front side	10mm		23130	711	1	0	-0.02	0.097	23.35	24.50	1.303	0.126	/
LTE B12	Ant.4	Front side	10mm		23095	707.5	25	0	-0.06	0.123	22.45	23.50	1.274	0.157	/
LTE B12	Ant.4	Back side	10mm		23095	707.5	25	0	-0.12	0.077	22.45	23.50	1.274	0.098	/
LTE B12	Ant.4	Right side	10mm		23095	707.5	25	0	-0.17	0.101	22.45	23.50	1.274	0.129	/
LTE B12	Ant.4	Bottom side	10mm		23095	707.5	25	0	-0.11	0.056	22.45	23.50	1.274	0.071	/
LTE B12	Ant.4	Front side	10mm		23060	704	25	0	-0.12	0.073	22.44	23.50	1.276	0.093	/
LTE B12	Ant.4	Front side	10mm		23130	711	25	0	0.11	0.081	22.44	23.50	1.276	0.103	/

10.6LTE Band 13

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B13	Body-worn														
LTE B13	Ant.4	Back side	0mm	QPSK-10MHz	23230	782	1	0	-0.09	0.214	23.35	24.50	1.303	0.279	11
LTE B13	Ant.4	Back side	0mm		23230	782	25	0	0.08	0.189	22.40	23.50	1.288	0.243	/
LTE B13	Hotspot	Front of face													
LTE B13	Ant.4	Front side	10mm	QPSK-10MHz	23230	782	1	0	-0.06	0.198	23.35	24.50	1.303	0.258	12
LTE B13	Ant.4	Back side	10mm		23230	782	1	0	0.10	0.171	23.35	24.50	1.303	0.223	/
LTE B13	Ant.4	Right side	10mm		23230	782	1	0	0.05	0.118	23.35	24.50	1.303	0.154	/
LTE B13	Ant.4	Bottom side	10mm		23230	782	1	0	-0.02	0.116	23.35	24.50	1.303	0.151	/
LTE B13	Ant.4	Front side	10mm		23230	782	25	0	0.05	0.187	22.40	23.50	1.288	0.241	/
LTE B13	Ant.4	Back side	10mm		23230	782	25	0	-0.11	0.126	22.40	23.50	1.288	0.162	/
LTE B13	Ant.4	Right side	10mm		23230	782	25	0	-0.01	0.088	22.40	23.50	1.288	0.113	/
LTE B13	Ant.4	Bottom side	10mm		23230	782	25	0	-0.01	0.100	22.40	23.50	1.288	0.129	/

10.7LTE Band 14

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B14	Body-worn														
LTE B14	Ant.4	Back side	0mm	QPSK-10MHz	23330	793	1	0	-0.05	0.248	23.48	24.50	1.265	0.314	13
LTE B14	Ant.4	Back side	0mm		23330	793	25	0	0.12	0.206	22.47	23.50	1.268	0.261	/
LTE B14	Hotspot	Front of face													
LTE B14	Ant.4	Front side	10mm	QPSK-10MHz	23330	793	1	0	0.09	0.234	23.48	24.50	1.265	0.296	14
LTE B14	Ant.4	Back side	10mm		23330	793	1	0	0.10	0.135	23.48	24.50	1.265	0.171	/
LTE B14	Ant.4	Right side	10mm		23330	793	1	0	0.03	0.085	23.48	24.50	1.265	0.108	/
LTE B14	Ant.4	Bottom side	10mm		23330	793	1	0	0.02	0.132	23.48	24.50	1.265	0.167	/
LTE B14	Ant.4	Front side	10mm		23330	793	25	0	0.07	0.202	22.47	23.50	1.268	0.256	/
LTE B14	Ant.4	Back side	10mm		23330	793	25	0	-0.11	0.102	22.47	23.50	1.268	0.129	/
LTE B14	Ant.4	Right side	10mm		23330	793	25	0	-0.01	0.062	22.47	23.50	1.268	0.079	/
LTE B14	Ant.4	Bottom side	10mm		23330	793	25	0	0.10	0.106	22.47	23.50	1.268	0.134	/

10.8LTE Band 17

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B17	Body-worn														
LTE B17	Ant.4	Back side	0mm	QPSK-10MHz	23790	710	1	0	-0.01	0.106	23.37	24.50	1.297	0.138	/
LTE B17	Ant.4	Back side	0mm		23780	709	1	0	-0.05	0.103	23.31	24.50	1.315	0.135	/
LTE B17	Ant.4	Back side	0mm		23800	711	1	0	-0.04	0.120	23.34	24.50	1.306	0.157	15
LTE B17	Ant.4	Back side	0mm		23790	710	25	0	0.08	0.107	22.33	23.50	1.309	0.140	/
LTE B17	Ant.4	Back side	0mm		23780	709	25	0	-0.18	0.103	22.34	23.50	1.306	0.135	/
LTE B17	Ant.4	Back side	0mm		23800	711	25	0	0.01	0.101	22.36	23.50	1.300	0.131	/
LTE B17	Hotspot Front of face														
LTE B17	Ant.4	Front side	10mm	QPSK-10MHz	23790	710	1	0	-0.08	0.136	23.37	24.50	1.297	0.176	16
LTE B17	Ant.4	Back side	10mm		23790	710	1	0	0.01	0.099	23.37	24.50	1.297	0.128	/
LTE B17	Ant.4	Right side	10mm		23790	710	1	0	-0.17	0.120	23.37	24.50	1.297	0.156	/
LTE B17	Ant.4	Bottom side	10mm		23790	710	1	0	-0.19	0.065	23.37	24.50	1.297	0.084	/
LTE B17	Ant.4	Front side	10mm		23780	709	1	0	0.17	0.126	23.31	24.50	1.315	0.166	/
LTE B17	Ant.4	Front side	10mm		23800	711	1	0	0.15	0.131	23.34	24.50	1.306	0.171	/
LTE B17	Ant.4	Front side	10mm		23790	710	25	0	0.17	0.123	22.33	23.50	1.309	0.161	/
LTE B17	Ant.4	Back side	10mm		23790	710	25	0	0.09	0.081	22.33	23.50	1.309	0.106	/
LTE B17	Ant.4	Right side	10mm		23790	710	25	0	-0.05	0.113	22.33	23.50	1.309	0.148	/
LTE B17	Ant.4	Bottom side	10mm		23790	710	25	0	0.09	0.054	22.33	23.50	1.309	0.071	/
LTE B17	Ant.4	Front side	10mm		23780	709	25	0	0.12	0.124	22.34	23.50	1.306	0.162	/
LTE B17	Ant.4	Front side	10mm		23800	711	25	0	0.06	0.126	22.36	23.50	1.300	0.164	/

10.9LTE Band 25

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B25	Body-worn														
LTE B25	Ant.0	Back side	0mm	QPSK-20MHz	26365	1882.5	1	0	0.18	0.230	22.59	23.50	1.233	0.284	/
LTE B25	Ant.0	Back side	0mm		26140	1860	1	0	-0.14	0.269	22.50	23.50	1.259	0.339	17
LTE B25	Ant.0	Back side	0mm		26590	1905	1	0	-0.03	0.224	22.58	23.50	1.236	0.277	/
LTE B25	Ant.0	Back side	0mm		26365	1882.5	50	0	-0.04	0.199	21.72	22.50	1.197	0.238	/
LTE B25	Ant.0	Back side	0mm		26140	1860	50	0	-0.17	0.234	21.67	22.50	1.211	0.283	/
LTE B25	Ant.0	Back side	0mm		26590	1905	50	0	0.01	0.188	21.74	22.50	1.191	0.224	/
LTE B25	Hotspot Front of face														
LTE B25	Ant.0	Front side	10mm	QPSK-20MHz	26365	1882.5	1	0	-0.18	0.131	22.59	23.50	1.233	0.162	/
LTE B25	Ant.0	Back side	10mm		26365	1882.5	1	0	-0.17	0.101	22.59	23.50	1.233	0.125	/
LTE B25	Ant.0	Left side	10mm		26365	1882.5	1	0	-0.07	0.239	22.59	23.50	1.233	0.295	/
LTE B25	Ant.0	Bottom side	10mm		26365	1882.5	1	0	0.01	0.050	22.59	23.50	1.233	0.062	/
LTE B25	Ant.0	Left side	10mm		26140	1860	1	0	0.04	0.241	22.50	23.50	1.259	0.303	18
LTE B25	Ant.0	Left side	10mm		26590	1905	1	0	-0.02	0.233	22.58	23.50	1.236	0.288	/
LTE B25	Ant.0	Front side	10mm		26365	1882.5	50	0	-0.14	0.132	21.72	22.50	1.197	0.158	/
LTE B25	Ant.0	Back side	10mm		26365	1882.5	50	0	-0.12	0.087	21.72	22.50	1.197	0.104	/
LTE B25	Ant.0	Left side	10mm		26365	1882.5	50	0	-0.09	0.217	21.72	22.50	1.197	0.260	/
LTE B25	Ant.0	Bottom side	10mm		26365	1882.5	50	0	-0.02	0.043	21.72	22.50	1.197	0.051	/
LTE B25	Ant.0	Left side	10mm		26140	1860	50	0	-0.19	0.205	21.67	22.50	1.211	0.248	/
LTE B25	Ant.0	Left side	10mm		26590	1905	50	0	0.01	0.215	21.74	22.50	1.191	0.256	/

10.10 LTE Band 26

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B26	Body-worn			QPSK-15MHz											
LTE B26	Ant.4	Back side	0mm		26865	831.5	1	0	-0.13	0.290	23.49	24.50	1.262	0.366	/
LTE B26	Ant.4	Back side	0mm		26765	821.5	1	0	-0.04	0.251	23.35	24.50	1.303	0.327	/
LTE B26	Ant.4	Back side	0mm		26965	841.5	1	0	-0.19	0.349	23.40	24.50	1.288	0.450	19
LTE B26	Ant.4	Back side	0mm		26865	831.5	36	0	-0.16	0.260	22.42	23.50	1.282	0.333	/
LTE B26	Ant.4	Back side	0mm		26765	821.5	36	0	0.13	0.214	22.38	23.50	1.294	0.277	/
LTE B26	Ant.4	Back side	0mm		26965	841.5	36	0	0.08	0.294	22.43	23.50	1.279	0.376	/
LTE B26	Hotspot Front of face			QPSK-15MHz											
LTE B26	Ant.4	Front side	10mm		26865	831.5	1	0	0.09	0.257	23.49	24.50	1.262	0.324	/
LTE B26	Ant.4	Back side	10mm		26865	831.5	1	0	-0.11	0.114	23.49	24.50	1.262	0.144	/
LTE B26	Ant.4	Right side	10mm		26865	831.5	1	0	0.02	0.062	23.49	24.50	1.262	0.078	/
LTE B26	Ant.4	Bottom side	10mm		26865	831.5	1	0	0.12	0.213	23.49	24.50	1.262	0.269	/
LTE B26	Ant.4	Front side	10mm		26765	821.5	1	0	0.05	0.184	23.35	24.50	1.303	0.240	/
LTE B26	Ant.4	Front side	10mm		26965	841.5	1	0	0.02	0.258	23.40	24.50	1.288	0.332	20
LTE B26	Ant.4	Front side	10mm		26865	831.5	36	0	-0.12	0.201	22.42	23.50	1.282	0.258	/
LTE B26	Ant.4	Back side	10mm		26865	831.5	36	0	0.15	0.098	22.42	23.50	1.282	0.126	/
LTE B26	Ant.4	Right side	10mm		26865	831.5	36	0	0.15	0.059	22.42	23.50	1.282	0.076	/
LTE B26	Ant.4	Bottom side	10mm		26865	831.5	36	0	0.19	0.018	22.42	23.50	1.282	0.023	/
LTE B26	Ant.4	Front side	10mm		26765	821.5	36	0	0.19	0.158	22.38	23.50	1.294	0.204	/
LTE B26	Ant.4	Front side	10mm		26965	841.5	36	0	-0.01	0.233	22.43	23.50	1.279	0.298	/

10.11 LTE Band 30

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B30	Body-worn			QPSK-10MHz											
LTE B30	Ant.0	Back side	0mm		27710	2310	1	0	-0.19	0.309	23.03	24.00	1.250	0.386	21
LTE B30	Ant.0	Back side	0mm		27710	2310	25	0	0.05	0.287	22.06	23.00	1.242	0.356	/
LTE B30	Hotspot Front of face			QPSK-10MHz											
LTE B30	Ant.0	Front side	10mm		27710	2310	1	0	0.02	0.140	23.03	24.00	1.250	0.175	/
LTE B30	Ant.0	Back side	10mm		27710	2310	1	0	-0.08	0.095	23.03	24.00	1.250	0.119	/
LTE B30	Ant.0	Left side	10mm		27710	2310	1	0	0.07	0.182	23.03	24.00	1.250	0.228	22
LTE B30	Ant.0	Bottom side	10mm		27710	2310	1	0	0.16	0.096	23.03	24.00	1.250	0.120	/
LTE B30	Ant.0	Front side	10mm		27710	2310	25	0	0.14	0.118	22.06	23.00	1.242	0.147	/
LTE B30	Ant.0	Back side	10mm		27710	2310	25	0	-0.05	0.074	22.06	23.00	1.242	0.092	/
LTE B30	Ant.0	Left side	10mm		27710	2310	25	0	-0.14	0.167	22.06	23.00	1.242	0.207	/
LTE B30	Ant.0	Bottom side	10mm		27710	2310	25	0	0.06	0.081	22.06	23.00	1.242	0.101	/
LTE B30	Ant.0	Front side	10mm		27710	2310	50	0	-0.16	0.119	22.12	23.00	1.225	0.146	/

10.12 LTE Band 66

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B66	Body-worn			QPSK-20MHz											
LTE B66	Ant.0	Back side	0mm		132322	1745	1	0	0.12	0.203	22.79	23.50	1.178	0.239	/
LTE B66	Ant.0	Back side	0mm		132072	1720	1	0	-0.04	0.204	22.66	23.50	1.213	0.248	23
LTE B66	Ant.0	Back side	0mm		132572	1770	1	0	-0.11	0.201	22.71	23.50	1.199	0.241	/
LTE B66	Ant.0	Back side	0mm		132322	1745	50	0	-0.02	0.189	21.84	22.50	1.164	0.220	/
LTE B66	Ant.0	Back side	0mm		132072	1720	50	0	0.04	0.195	21.86	22.50	1.159	0.226	/
LTE B66	Ant.0	Back side	0mm		132572	1770	50	0	0.14	0.191	21.77	22.50	1.183	0.226	/
LTE B66	Hotspot Front of face			QPSK-20MHz											
LTE B66	Ant.0	Front side	10mm		132322	1745	1	0	-0.12	0.142	22.79	23.50	1.178	0.167	/
LTE B66	Ant.0	Back side	10mm		132322	1745	1	0	0.19	0.120	22.79	23.50	1.178	0.141	/
LTE B66	Ant.0	Left side	10mm		132322	1745	1	0	-0.11	0.174	22.79	23.50	1.178	0.205	/
LTE B66	Ant.0	Bottom side	10mm		132322	1745	1	0	-0.02	0.065	22.79	23.50	1.178	0.077	/
LTE B66	Ant.0	Left side	10mm		132072	1720	1	0	-0.07	0.130	22.66	23.50	1.213	0.158	/
LTE B66	Ant.0	Left side	10mm		132572	1770	1	0	-0.01	0.204	22.71	23.50	1.199	0.245	24
LTE B66	Ant.0	Front side	10mm		132322	1745	50	0	-0.07	0.115	21.84	22.50	1.164	0.134	/
LTE B66	Ant.0	Back side	10mm		132322	1745	50	0	0.13	0.096	21.84	22.50	1.164	0.112	/
LTE B66	Ant.0	Left side	10mm		132322	1745	50	0	0.05	0.150	21.84	22.50	1.164	0.175	/
LTE B66	Ant.0	Bottom side	10mm		132322	1745	50	0	0.15	0.045	21.84	22.50	1.164	0.052	/
LTE B66	Ant.0	Left side	10mm		132072	1720	50	0	0.10	0.111	21.86	22.50	1.159	0.129	/
LTE B66	Ant.0	Left side	10mm		132572	1770	50	0	-0.02	0.190	21.77	22.50	1.183	0.225	/

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
Body-worn															
LTE B66	Ant.0	Back side	0mm	QPSK-20MHz	132072+132270	1720	1+99	1+0	-0.05	0.200	22.61	23.50	1.227	0.245	
Hotspot Front of face															
LTE B66	Ant.0	Left side	10mm	QPSK-20MHz	132572+132374	1770	1+0	0+99	0.06	0.195	22.68	23.50	1.208	0.236	

10.13 LTE Band 71

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(db)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B71	Body-worn														
LTE B71	Ant.4	Back side	0mm	QPSK-20MHz	133322	683	1	0	-0.11	0.125	23.39	24.50	1.291	0.161	/
LTE B71	Ant.4	Back side	0mm		133222	673	1	0	-0.17	0.118	23.37	24.50	1.297	0.153	/
LTE B71	Ant.4	Back side	0mm		133272	688	1	0	-0.07	0.137	23.33	24.50	1.309	0.179	25
LTE B71	Ant.4	Back side	0mm		133322	683	50	0	-0.12	0.120	22.36	23.50	1.300	0.156	/
LTE B71	Ant.4	Back side	0mm		133222	673	50	0	0.16	0.127	22.28	23.50	1.324	0.168	/
LTE B71	Ant.4	Back side	0mm		133272	688	50	0	0.11	0.133	22.23	23.50	1.340	0.178	/
LTE B71	Hotspot	Front of face													
LTE B71	Ant.4	Front side	10mm	QPSK-20MHz	133322	683	1	0	0.09	0.162	23.39	24.50	1.291	0.209	26
LTE B71	Ant.4	Back side	10mm		133322	683	1	0	-0.03	0.139	23.39	24.50	1.291	0.179	/
LTE B71	Ant.4	Right side	10mm		133322	683	1	0	0.04	0.120	23.39	24.50	1.291	0.155	/
LTE B71	Ant.4	Bottom side	10mm		133322	683	1	0	-0.11	0.020	23.39	24.50	1.291	0.026	/
LTE B71	Ant.4	Front side	10mm		133222	673	1	0	0.15	0.148	23.37	24.50	1.297	0.192	/
LTE B71	Ant.4	Front side	10mm		133272	688	1	0	0.02	0.141	23.33	24.50	1.309	0.185	/
LTE B71	Ant.4	Front side	10mm		133322	683	50	0	-0.11	0.157	22.36	23.50	1.300	0.204	/
LTE B71	Ant.4	Back side	10mm		133322	683	50	0	0.13	0.116	22.36	23.50	1.300	0.151	/
LTE B71	Ant.4	Right side	10mm		133322	683	50	0	-0.06	0.152	22.36	23.50	1.300	0.198	/
LTE B71	Ant.4	Bottom side	10mm		133322	683	50	0	0.16	0.020	22.36	23.50	1.300	0.026	/
LTE B71	Ant.4	Front side	10mm		133222	673	50	0	0.01	0.156	22.28	23.50	1.324	0.207	/
LTE B71	Ant.4	Front side	10mm		133272	688	50	0	0.09	0.151	22.23	23.50	1.340	0.202	/

10.14 LTE Band 38

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B38	Body-worn														
LTE B38	Ant.0	Back side	0mm	QPSK-20MHz	38000	2595	1	0	0.15	0.165	23.01	24.00	1.256	0.207	/
LTE B38	Ant.0	Back side	0mm		37850	2580	1	0	0.05	0.167	22.98	24.00	1.265	0.211	27
LTE B38	Ant.0	Back side	0mm		38150	2610	1	0	0.12	0.151	22.96	24.00	1.271	0.192	/
LTE B38	Ant.0	Back side	0mm		38000	2595	50	0	0.15	0.165	22.01	23.00	1.256	0.207	/
LTE B38	Ant.0	Back side	0mm		37850	2580	50	0	-0.16	0.168	22.03	23.00	1.250	0.210	/
LTE B38	Ant.0	Back side	0mm		38150	2610	50	0	-0.17	0.166	22.05	23.00	1.245	0.207	/
LTE B38	Hotspot	Front of face													
LTE B38	Ant.0	Front side	10mm	QPSK-20MHz	38000	2595	1	0	-0.02	0.114	23.01	24.00	1.256	0.143	/
LTE B38	Ant.0	Back side	10mm		38000	2595	1	0	-0.03	0.081	23.01	24.00	1.256	0.102	/
LTE B38	Ant.0	Left side	10mm		38000	2595	1	0	-0.05	0.131	23.01	24.00	1.256	0.165	28
LTE B38	Ant.0	Bottom side	10mm		38000	2595	1	0	0.07	0.090	23.01	24.00	1.256	0.113	/
LTE B38	Ant.0	Left side	10mm		37850	2580	1	0	-0.01	0.127	22.98	24.00	1.265	0.161	/
LTE B38	Ant.0	Left side	10mm		38150	2610	1	0	-0.11	0.120	23.01	24.00	1.256	0.151	/
LTE B38	Ant.0	Front side	10mm		38000	2595	50	0	-0.13	0.111	22.01	23.00	1.256	0.139	/
LTE B38	Ant.0	Back side	10mm		38000	2595	50	0	0.18	0.063	22.01	23.00	1.256	0.079	/
LTE B38	Ant.0	Left side	10mm		38000	2595	50	0	0.16	0.122	22.01	23.00	1.256	0.153	/
LTE B38	Ant.0	Bottom side	10mm		38000	2595	50	0	0.09	0.072	22.01	23.00	1.256	0.090	/
LTE B38	Ant.0	Left side	10mm		37850	2580	50	0	0.18	0.114	22.03	23.00	1.250	0.143	/
LTE B38	Ant.0	Left side	10mm		38150	2610	50	0	-0.06	0.113	22.05	23.00	1.245	0.141	/

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
Body-worn															
LTE B38	Ant.0	Back side	0mm	QPSK-20MHz	37850+38048	2580	1+99	1+0	-0.04	0.152	22.91	24.00	1.285	0.195	
Hotspot Front of face															
LTE B38	Ant.0	Left side	10mm	QPSK-20MHz	38000+38198	2595	1+99	1+0	-0.06	0.113	22.94	24.00	1.276	0.144	

10.15 LTE Band 41

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B41	Body-worn														
LTE B41	Ant.0	Back side	0mm	QPSK-20MHz	40620	2593	1	0	-0.04	0.175	23.09	24.00	1.233	0.216	/
LTE B41	Ant.0	Back side	0mm		39750	2506	1	0	0.09	0.179	22.82	24.00	1.312	0.235	29
LTE B41	Ant.0	Back side	0mm		40185	2549.5	1	0	-0.12	0.164	22.87	24.00	1.297	0.213	/
LTE B41	Ant.0	Back side	0mm		41055	2636.5	1	0	0.08	0.172	23.04	24.00	1.247	0.215	/
LTE B41	Ant.0	Back side	0mm		41490	2680	1	0	-0.11	0.177	22.97	24.00	1.268	0.224	/
LTE B41	Ant.0	Back side	0mm		40620	2593	50	0	0.09	0.171	22.12	23.00	1.225	0.209	/
LTE B41	Ant.0	Back side	0mm		39750	2506	50	0	-0.13	0.174	21.95	23.00	1.274	0.222	/
LTE B41	Ant.0	Back side	0mm		40185	2549.5	50	0	0.1	0.176	22.07	23.00	1.239	0.218	/
LTE B41	Ant.0	Back side	0mm		41055	2636.5	50	0	0.11	0.165	22.15	23.00	1.216	0.201	/
LTE B41	Ant.0	Back side	0mm		41490	2680	50	0	-0.07	0.150	22.06	23.00	1.242	0.186	/
LTE B41	Hotspot Front of face														
LTE B41	Ant.0	Front side	10mm	QPSK-20MHz	40620	2593	1	0	0.08	0.103	23.09	24.00	1.233	0.127	/
LTE B41	Ant.0	Back side	10mm		40620	2593	1	0	0.07	0.091	23.09	24.00	1.233	0.112	/
LTE B41	Ant.0	Left side	10mm		40620	2593	1	0	0.08	0.129	23.09	24.00	1.233	0.159	30
LTE B41	Ant.0	Bottom side	10mm		40620	2593	1	0	0.15	0.115	23.09	24.00	1.233	0.142	/
LTE B41	Ant.0	Left side	10mm		39750	2506	1	0	0.18	0.116	22.82	24.00	1.312	0.152	/
LTE B41	Ant.0	Left side	10mm		40185	2549.5	1	0	-0.09	0.119	22.87	24.00	1.297	0.154	/
LTE B41	Ant.0	Left side	10mm		41055	2636.5	1	0	0.09	0.118	23.04	24.00	1.247	0.147	/
LTE B41	Ant.0	Left side	10mm		41490	2680	1	0	-0.03	0.119	22.97	24.00	1.268	0.151	/
LTE B41	Ant.0	Left side	10mm		40620	2593	50	0	-0.19	0.111	22.12	23.00	1.225	0.136	/
LTE B41	Ant.0	Back side	10mm		40620	2593	50	0	-0.11	0.059	22.12	23.00	1.225	0.072	/
LTE B41	Ant.0	Left side	10mm		40620	2593	50	0	-0.08	0.114	22.12	23.00	1.225	0.140	/
LTE B41	Ant.0	Bottom side	10mm		40620	2593	50	0	-0.17	0.078	22.12	23.00	1.225	0.096	/
LTE B41	Ant.0	Left side	10mm		39750	2506	50	0	-0.13	0.115	21.95	23.00	1.274	0.146	/
LTE B41	Ant.0	Left side	10mm		40185	2549.5	50	0	-0.11	0.113	22.07	23.00	1.239	0.140	/
LTE B41	Ant.0	Left side	10mm		41055	2636.5	50	0	-0.02	0.128	22.15	23.00	1.216	0.156	/
LTE B41	Ant.0	Left side	10mm		41490	2680	50	0	0.1	0.121	22.06	23.00	1.242	0.150	/

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measure d 1g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B41	Body-worn														
LTE B41	Ant.0	Back side	0mm	QPSK-20MHz	39750+39948	2506	1+99	1+0	0.05	0.168	22.74	24.00	1.337	0.225	
LTE B41	Hotspot Front of face														
LTE B41	Ant.0	Left side	10mm	QPSK-20MHz	40620+40818	2593	1+99	1+0	0.09	0.102	23.05	24.00	1.245	0.127	

10.16 LTE Band 42

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B42	Body-worn														
LTE B42	Ant.1	Back side	0mm	QPSK-20MHz	42840	3525	1	0	0.02	0.403	22.12	23.00	1.225	0.494	/
LTE B42	Ant.1	Back side	0mm		42190	3460	1	0	0.15	0.382	21.98	23.00	1.265	0.483	/
LTE B42	Ant.1	Back side	0mm		42515	3492.5	1	0	-0.17	0.376	21.99	23.00	1.262	0.474	/
LTE B42	Ant.1	Back side	0mm		43165	3557.5	1	0	-0.18	0.366	22.06	23.00	1.242	0.454	/
LTE B42	Ant.1	Back side	0mm		43490	3590	1	0	-0.18	0.402	22.08	23.00	1.236	0.497	31
LTE B42	Ant.1	Back side	0mm		42840	3525	50	0	0.03	0.401	21.27	22.00	1.183	0.474	/
LTE B42	Ant.1	Back side	0mm		42190	3460	50	0	-0.17	0.342	20.91	22.00	1.285	0.440	/
LTE B42	Ant.1	Back side	0mm		42515	3492.5	50	0	-0.14	0.331	21.26	22.00	1.186	0.392	/
LTE B42	Ant.1	Back side	0mm		43165	3557.5	50	0	-0.05	0.345	21.19	22.00	1.205	0.416	/
LTE B42	Ant.1	Back side	0mm		43490	3590	50	0	0.18	0.354	20.99	22.00	1.262	0.447	/
LTE B42	Hotspot Front of face														
LTE B42	Ant.1	Front side	10mm	QPSK-20MHz	42840	3525	1	0	-0.05	0.097	22.12	23.00	1.225	0.119	/
LTE B42	Ant.1	Back side	10mm		42840	3525	1	0	-0.15	0.182	22.12	23.00	1.225	0.223	/
LTE B42	Ant.1	Left side	10mm		42840	3525	1	0	0.15	0.195	22.12	23.00	1.225	0.239	/
LTE B42	Ant.1	Left side	10mm		42190	3460	1	0	-0.19	0.179	21.98	23.00	1.265	0.226	/
LTE B42	Ant.1	Left side	10mm		42515	3492.5	1	0	-0.02	0.184	21.99	23.00	1.262	0.232	/
LTE B42	Ant.1	Left side	10mm		43165	3557.5	1	0	0.05	0.186	22.06	23.00	1.242	0.231	/
LTE B42	Ant.1	Left side	10mm		43490	3590	1	0	0.15	0.198	22.08	23.00	1.236	0.245	32
LTE B42	Ant.1	Front side	10mm		42840	3525	50	0	0.16	0.084	21.27	22.00	1.183	0.099	/
LTE B42	Ant.1	Back side	10mm		42840	3525	50	0	-0.11	0.171	21.27	22.00	1.183	0.202	/
LTE B42	Ant.1	Left side	10mm		42840	3525	50	0	-0.18	0.170	21.27	22.00	1.183	0.201	/
LTE B42	Ant.1	Back side	10mm		42190	3460	50	0	-0.12	0.175	20.91	22.00	1.285	0.225	/
LTE B42	Ant.1	Back side	10mm		42515	3492.5	50	0	-0.08	0.173	21.26	22.00	1.186	0.205	/
LTE B42	Ant.1	Back side	10mm		43165	3557.5	50	0	-0.08	0.164	21.19	22.00	1.205	0.198	/
LTE B42	Ant.1	Back side	10mm		43490	3590	50	0	0.19	0.158	20.99	22.00	1.262	0.199	/

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
Body-worn															
LTE B42	Ant.1	Back side	0mm	QPSK-20MHz	43490+43688	3590	1+0	0+99	-0.11	0.347	21.96	23.00	1.271	0.441	
Hotspot Front of face															
LTE B42	Ant.1	Left side	10mm	QPSK-20MHz	43490+43688	3590	1+0	0+99	0.14	0.186	21.96	23.00	1.271	0.236	

10.17 LTE Band 43

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B43	Body-worn														
LTE B43	Ant.1	Back side	0mm	QPSK-20MHz	44590	3700	1	0	0.16	0.429	22.28	23.00	1.180	0.506	/
LTE B43	Ant.1	Back side	0mm		43690	3610	1	0	0.03	0.439	22.12	23.00	1.225	0.538	33
LTE B43	Ant.1	Back side	0mm		44140	3655	1	0	-0.15	0.440	22.22	23.00	1.197	0.527	/
LTE B43	Ant.1	Back side	0mm		45040	3745	1	0	0.15	0.423	22.25	23.00	1.189	0.503	/
LTE B43	Ant.1	Back side	0mm		45490	3790	1	0	-0.07	0.416	22.21	23.00	1.199	0.499	/
LTE B43	Ant.1	Back side	0mm		44590	3700	50	0	0.05	0.416	21.15	22.00	1.216	0.506	/
LTE B43	Ant.1	Back side	0mm		43690	3610	50	0	0.03	0.435	21.08	22.00	1.236	0.538	/
LTE B43	Ant.1	Back side	0mm		44140	3655	50	0	0.09	0.428	21.11	22.00	1.227	0.525	/
LTE B43	Ant.1	Back side	0mm		45040	3745	50	0	-0.02	0.417	21.09	22.00	1.233	0.514	/
LTE B43	Ant.1	Back side	0mm		45490	3790	50	0	0.14	0.436	21.17	22.00	1.211	0.528	/
LTE B43	Hotspot Front of face														
LTE B43	Ant.1	Front side	10mm	QPSK-20MHz	44590	3700	1	0	0.1	0.244	22.28	23.00	1.180	0.288	/
LTE B43	Ant.1	Back side	10mm		44590	3700	1	0	0.09	0.230	22.28	23.00	1.180	0.271	/
LTE B43	Ant.1	Left side	10mm		44590	3700	1	0	-0.18	0.421	22.28	23.00	1.180	0.497	34
LTE B43	Ant.1	Left side	10mm		43690	3610	1	0	0.04	0.332	22.12	23.00	1.225	0.407	/
LTE B43	Ant.1	Left side	10mm		44140	3655	1	0	0.1	0.414	22.22	23.00	1.197	0.495	/
LTE B43	Ant.1	Left side	10mm		45040	3745	1	0	0.06	0.412	22.25	23.00	1.189	0.490	/
LTE B43	Ant.1	Left side	10mm		45490	3790	1	0	-0.07	0.404	22.21	23.00	1.199	0.485	/
LTE B43	Ant.1	Front side	10mm		44590	3700	50	0	-0.12	0.265	21.15	22.00	1.216	0.323	/
LTE B43	Ant.1	Back side	10mm		44590	3700	50	0	0.12	0.160	21.15	22.00	1.216	0.195	/
LTE B43	Ant.1	Left side	10mm		44590	3700	50	0	-0.1	0.393	21.15	22.00	1.216	0.478	/
LTE B43	Ant.1	Left side	10mm		43690	3610	50	0	0.19	0.243	21.08	22.00	1.236	0.300	/
LTE B43	Ant.1	Left side	10mm		44140	3655	50	0	-0.08	0.305	21.11	22.00	1.227	0.374	/
LTE B43	Ant.1	Left side	10mm		45040	3745	50	0	0.19	0.383	21.09	22.00	1.233	0.472	/
LTE B43	Ant.1	Left side	10mm		45490	3790	50	0	0.02	0.375	21.17	22.00	1.211	0.454	/

10.18 LTE Band 48

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
LTE B48	Body-worn														
LTE B48	Ant.1	Back side	0mm	QPSK-20MHz	55340	3560	1	0	-0.16	0.426	22.07	23.00	1.239	0.528	/
LTE B48	Ant.1	Back side	0mm		55830	3609	1	0	0.12	0.426	22.06	23.00	1.242	0.529	/
LTE B48	Ant.1	Back side	0mm		55990	3625	1	0	-0.01	0.432	21.93	23.00	1.279	0.553	/
LTE B48	Ant.1	Back side	0mm		56150	3641	1	0	-0.04	0.430	21.87	23.00	1.297	0.558	35
LTE B48	Ant.1	Back side	0mm		56640	3690	1	0	0.02	0.421	21.82	23.00	1.312	0.552	/
LTE B48	Ant.1	Back side	0mm		55340	3560	50	0	-0.03	0.419	21.08	22.00	1.236	0.518	/
LTE B48	Ant.1	Back side	0mm		55830	3609	50	0	0.02	0.418	20.91	22.00	1.285	0.537	/
LTE B48	Ant.1	Back side	0mm		55990	3625	50	0	-0.03	0.411	20.82	22.00	1.312	0.539	/
LTE B48	Ant.1	Back side	0mm		56150	3641	50	0	0.08	0.402	20.81	22.00	1.315	0.529	/
LTE B48	Ant.1	Back side	0mm		56640	3690	50	0	-0.17	0.381	20.67	22.00	1.358	0.518	/
LTE B48	Hotspot	Front of face													
LTE B48	Ant.1	Front side	10mm	QPSK-20MHz	55990	3625	1	0	0.07	0.168	22.07	23.00	1.239	0.208	/
LTE B48	Ant.1	Back side	10mm		55990	3625	1	0	-0.14	0.203	22.07	23.00	1.239	0.251	/
LTE B48	Ant.1	Left side	10mm		55990	3625	1	0	0.08	0.325	22.07	23.00	1.239	0.403	/
LTE B48	Ant.1	Left side	10mm		55340	3560	1	0	0.02	0.193	22.06	23.00	1.242	0.240	/
LTE B48	Ant.1	Left side	10mm		55665	3592.5	1	0	0.05	0.258	21.93	23.00	1.279	0.330	/
LTE B48	Ant.1	Left side	10mm		56315	3657.5	1	0	-0.09	0.364	21.87	23.00	1.297	0.472	/
LTE B48	Ant.1	Left side	10mm		56640	3690	1	0	0.19	0.377	21.82	23.00	1.312	0.495	36
LTE B48	Ant.1	Front side	10mm		55990	3625	50	0	0.11	0.127	21.08	22.00	1.236	0.157	/
LTE B48	Ant.1	Back side	10mm		55990	3625	50	0	-0.03	0.177	21.08	22.00	1.236	0.219	/
LTE B48	Ant.1	Left side	10mm		55990	3625	50	0	0.19	0.283	21.08	22.00	1.236	0.350	/
LTE B48	Ant.1	Left side	10mm		55340	3560	50	0	0.14	0.161	20.91	22.00	1.285	0.207	/
LTE B48	Ant.1	Left side	10mm		55665	3592.5	50	0	0.03	0.217	20.82	22.00	1.312	0.285	/
LTE B48	Ant.1	Left side	10mm		56315	3657.5	50	0	0.12	0.315	20.81	22.00	1.315	0.414	/
LTE B48	Ant.1	Left side	10mm		56640	3690	50	0	-0.18	0.342	20.67	22.00	1.358	0.465	/

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
Body-worn															
LTE B48	Ant.1	Back side	0mm	QPSK-20MHz	56150+56348	3641	1+0	0+99	-0.09	0.373	21.84	23.00	1.306	0.487	
Hotspot Front of face															
LTE B48	Ant.1	Left side	10mm	QPSK-20MHz	56640+56838	3690	1+0	0+99	-0.13	0.341	21.80	23.00	1.318	0.450	

10.19 NR n2

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq (MHz)	RB Num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n2	Body-worn															
NR n2	Ant.0	Back side	0mm	(BW 20MHz) DFT-s-OFDM BPSK	15kHz	376000	1880	1	1	-0.01	0.271	23.35	24.00	1.161	0.315	/
NR n2	Ant.0	Back side	0mm			372000	1880	1	1	-0.02	0.344	23.26	24.00	1.186	0.408	37
NR n2	Ant.0	Back side	0mm			380000	1900	1	1	-0.05	0.249	23.30	24.00	1.175	0.293	/
NR n2	Ant.0	Back side	0mm			376000	1880	50	28	0.08	0.277	23.28	24.00	1.180	0.327	/
NR n2	Ant.0	Back side	0mm			372000	1880	50	28	0.09	0.312	23.22	24.00	1.197	0.373	/
NR n2	Ant.0	Back side	0mm			380000	1900	50	28	-0.16	0.242	23.25	24.00	1.189	0.288	/
NR n2	Hotspot	Front of face														
NR n2	Ant.0	Front side	10mm	(BW 20MHz) DFT-s-OFDM BPSK	15kHz	376000	1880	1	1	-0.08	0.193	23.35	24.00	1.161	0.224	/
NR n2	Ant.0	Back side	10mm			376000	1880	1	1	-0.10	0.108	23.35	24.00	1.161	0.125	/
NR n2	Ant.0	Left side	10mm			376000	1880	1	1	0.03	0.214	23.35	24.00	1.161	0.249	/
NR n2	Ant.0	Bottom side	10mm			376000	1880	1	1	0.08	0.042	23.35	24.00	1.161	0.049	/
NR n2	Ant.0	Left side	10mm			372000	1880	1	1	0.01	0.231	23.26	24.00	1.186	0.274	38
NR n2	Ant.0	Left side	10mm			380000	1900	1	1	0.13	0.228	23.30	24.00	1.175	0.268	/
NR n2	Ant.0	Front side	10mm			376000	1880	50	28	-0.17	0.152	23.28	24.00	1.180	0.179	/
NR n2	Ant.0	Back side	10mm			376000	1880	50	28	0.09	0.110	23.28	24.00	1.180	0.130	/
NR n2	Ant.0	Left side	10mm			376000	1880	50	28	-0.03	0.220	23.28	24.00	1.180	0.260	/
NR n2	Ant.0	Bottom side	10mm			376000	1880	50	28	0.04	0.055	23.28	24.00	1.180	0.065	/
NR n2	Ant.0	Left side	10mm			372000	1880	50	28	0.01	0.223	23.22	24.00	1.197	0.267	/
NR n2	Ant.0	Left side	10mm			380000	1900	50	28	-0.14	0.211	23.25	24.00	1.189	0.251	/

10.20 NR n5

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB Num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n5	Body-worn															
NR n5	Ant.4	Back side	0mm	(BW 20MHz) DFT-s-OFDM BPSK	15kHz	167300	836.5	1	1	-0.18	0.324	23.74	24.50	1.191	0.386	/
NR n5	Ant.4	Back side	0mm			166800	834	1	1	0.07	0.315	23.71	24.50	1.199	0.378	/
NR n5	Ant.4	Back side	0mm			167800	839	1	1	0.11	0.347	23.69	24.50	1.205	0.418	39
NR n5	Ant.4	Back side	0mm			167300	836.5	50	28	0.03	0.329	23.61	24.50	1.227	0.404	/
NR n5	Ant.4	Back side	0mm			166800	834	50	28	-0.17	0.332	23.59	24.50	1.233	0.409	/
NR n5	Ant.4	Back side	0mm			167800	839	50	28	0.05	0.331	23.57	24.50	1.239	0.410	/
NR n5	Hotspot Front of face															
NR n5	Ant.4	Front side	10mm	(BW 20MHz) DFT-s-OFDM BPSK	15kHz	167300	836.5	1	1	-0.12	0.252	23.74	24.50	1.191	0.300	40
NR n5	Ant.4	Back side	10mm			167300	836.5	1	1	0.06	0.111	23.74	24.50	1.191	0.132	/
NR n5	Ant.4	Right side	10mm			167300	836.5	1	1	-0.11	0.050	23.74	24.50	1.191	0.060	/
NR n5	Ant.4	Bottom side	10mm			167300	836.5	1	1	-0.16	0.192	23.74	24.50	1.191	0.229	/
NR n5	Ant.4	Front side	10mm			166800	834	1	1	-0.17	0.208	23.71	24.50	1.199	0.249	/
NR n5	Ant.4	Front side	10mm			167800	839	1	1	-0.12	0.227	23.69	24.50	1.205	0.274	/
NR n5	Ant.4	Front side	10mm			167300	836.5	50	28	0.03	0.228	23.61	24.50	1.227	0.280	/
NR n5	Ant.4	Back side	10mm			167300	836.5	50	28	-0.17	0.130	23.61	24.50	1.227	0.160	/
NR n5	Ant.4	Right side	10mm			167300	836.5	50	28	-0.04	0.055	23.61	24.50	1.227	0.068	/
NR n5	Ant.4	Bottom side	10mm			167300	836.5	50	28	-0.12	0.205	23.61	24.50	1.227	0.252	/
NR n5	Ant.4	Front side	10mm			166800	834	50	28	0.04	0.242	23.59	24.50	1.233	0.298	/
NR n5	Ant.4	Front side	10mm			167800	839	50	28	0.12	0.241	23.57	24.50	1.239	0.299	/

10.21 NR n7

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB Num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n7	Body-worn			(BW 40MHz) DFT-s-OFDM BPSK	15kHz	507000	2535	1	1	-0.08	0.031	23.72	24.50	1.197	0.037	/
NR n7	Ant.0	Back side	0mm			504000	2520	1	1	-0.02	0.327	23.64	24.50	1.219	0.399	41
NR n7	Ant.0	Back side	0mm			510000	2550	1	1	-0.11	0.321	23.71	24.50	1.199	0.385	/
NR n7	Ant.0	Back side	0mm			507000	2535	108	54	0.14	0.314	23.71	24.50	1.199	0.377	/
NR n7	Ant.0	Back side	0mm			504000	2520	108	54	0.13	0.316	23.62	24.50	1.225	0.387	/
NR n7	Ant.0	Back side	0mm			510000	2550	108	54	0.07	0.311	23.68	24.50	1.208	0.376	/
NR n7	Hotspot Front of face			(BW 40MHz) DFT-s-OFDM BPSK	15kHz	507000	2535	1	1	-0.14	0.128	23.72	24.50	1.197	0.153	/
NR n7	Ant.0	Front side	10mm			507000	2535	1	1	-0.06	0.059	23.72	24.50	1.197	0.071	/
NR n7	Ant.0	Back side	10mm			507000	2535	1	1	-0.13	0.224	23.72	24.50	1.197	0.268	/
NR n7	Ant.0	Bottom side	10mm			507000	2535	1	1	-0.18	0.131	23.72	24.50	1.197	0.157	/
NR n7	Ant.0	Left side	10mm			504000	2520	1	1	0.14	0.265	23.64	24.50	1.219	0.323	42
NR n7	Ant.0	Left side	10mm			510000	2550	1	1	-0.06	0.260	23.71	24.50	1.199	0.312	/
NR n7	Ant.0	Front side	10mm			507000	2535	108	54	0.13	0.126	23.71	24.50	1.199	0.151	/
NR n7	Ant.0	Back side	10mm			507000	2535	108	54	-0.15	0.059	23.71	24.50	1.199	0.071	/
NR n7	Ant.0	Left side	10mm			507000	2535	108	54	-0.11	0.209	23.71	24.50	1.199	0.251	/
NR n7	Ant.0	Bottom side	10mm			507000	2535	108	54	0.19	0.135	23.71	24.50	1.199	0.162	/
NR n7	Ant.0	Left side	10mm			504000	2520	108	54	-0.14	0.249	23.62	24.50	1.225	0.305	/
NR n7	Ant.0	Left side	10mm			510000	2550	108	54	-0.02	0.245	23.68	24.50	1.208	0.296	/

10.22 NR n12

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB Num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n12	Body-worn			(BW 15MHz) DFT-s-OFDM BPSK	15kHz	141500	707.5	1	1	0.14	0.139	23.43	24.50	1.279	0.178	/
NR n12	Ant.4	Back side	0mm			141300	706.5	1	1	0.12	0.157	23.40	24.50	1.288	0.202	43
NR n12	Ant.4	Back side	0mm			141700	708.5	1	1	-0.02	0.139	23.36	24.50	1.300	0.181	/
NR n12	Ant.4	Back side	0mm			141500	707.5	36	22	0.13	0.120	23.40	24.50	1.288	0.155	/
NR n12	Ant.4	Back side	0mm			141300	706.5	36	22	-0.14	0.120	23.35	24.50	1.303	0.156	/
NR n12	Ant.4	Back side	0mm			141700	708.5	36	22	0.04	0.121	23.31	24.50	1.315	0.159	/
NR n12	Hotspot Front of face			(BW 15MHz) DFT-s-OFDM BPSK	15kHz	141500	707.5	1	1	0.08	0.134	23.43	24.50	1.279	0.171	/
NR n12	Ant.4	Front side	10mm			141500	707.5	1	1	-0.05	0.139	23.43	24.50	1.279	0.178	/
NR n12	Ant.4	Back side	10mm			141500	707.5	1	1	0.13	0.163	23.43	24.50	1.279	0.209	/
NR n12	Ant.4	Right side	10mm			141500	707.5	1	1	0.19	0.090	23.43	24.50	1.279	0.115	/
NR n12	Ant.4	Bottom side	10mm			141300	706.5	1	1	0.14	0.166	23.40	24.50	1.288	0.214	/
NR n12	Ant.4	Right side	10mm			141700	708.5	1	1	0.07	0.168	23.36	24.50	1.300	0.218	44
NR n12	Ant.4	Front side	10mm			141500	707.5	36	22	0.14	0.131	23.40	24.50	1.288	0.169	/
NR n12	Ant.4	Back side	10mm			141500	707.5	36	22	-0.14	0.135	23.40	24.50	1.288	0.174	/
NR n12	Ant.4	Right side	10mm			141500	707.5	36	22	0.16	0.165	23.40	24.50	1.288	0.213	/
NR n12	Ant.4	Bottom side	10mm			141500	707.5	36	22	0.06	0.088	23.40	24.50	1.288	0.113	/
NR n12	Ant.4	Right side	10mm			141300	706.5	36	22	-0.03	0.162	23.35	24.50	1.303	0.211	/
NR n12	Ant.4	Right side	10mm			141700	708.5	36	22	0.02	0.160	23.31	24.50	1.315	0.210	/

10.23 NR n13

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB Num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n13	Body-worn			(BW 10MHz) DFT-s-OFDM BPSK	15kHz	156400	782	1	1	0.06	0.191	23.37	24.50	1.297	0.248	45
NR n13	Ant.4	Back side	0mm			156400	782	25	14	-0.09	0.164	23.33	24.50	1.309	0.215	/
NR n13	Hotspot Front of face			(BW 10MHz) DFT-s-OFDM BPSK	15kHz	156400	782	1	1	0.10	0.221	23.37	24.50	1.297	0.287	46
NR n13	Ant.4	Front side	10mm			156400	782	1	1	-0.04	0.184	23.37	24.50	1.297	0.239	/
NR n13	Ant.4	Back side	10mm			156400	782	1	1	0.03	0.201	23.37	24.50	1.297	0.261	/
NR n13	Ant.4	Right side	10mm			156400	782	1	1	-0.02	0.096	23.37	24.50	1.297	0.125	/
NR n13	Ant.4	Bottom side	10mm			156400	782	25	14	-0.19	0.207	23.33	24.50	1.309	0.271	/
NR n13	Ant.4	Front side	10mm			156400	782	25	14	0.15	0.146	23.33	24.50	1.309	0.191	/
NR n13	Ant.4	Back side	10mm			156400	782	25	14	-0.12	0.165	23.33	24.50	1.309	0.216	/
NR n13	Ant.4	Right side	10mm			156400	782	25	14	-0.14	0.093	23.33	24.50	1.309	0.122	/

10.24 NR n14

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB Num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n14	Body-wron															
NR n14	Ant.4	Back side	0mm	(BW 10MHz) DFT-s-OFDM BPSK	15kHz	158600	793	1	1	0.10	0.351	23.65	24.50	1.216	0.427	47
NR n14	Ant.4	Back side	0mm			158600	793	25	14	0.04	0.230	23.63	24.50	1.222	0.281	/
NR n14	Hotspot	Front of face														
NR n14	Ant.4	Front side	10mm	(BW 10MHz) DFT-s-OFDM BPSK	15kHz	158600	793	1	1	0.12	0.327	23.65	24.50	1.216	0.398	48
NR n14	Ant.4	Back side	10mm			158600	793	1	1	-0.14	0.221	23.65	24.50	1.216	0.269	/
NR n14	Ant.4	Right side	10mm			158600	793	1	1	0.09	0.246	23.65	24.50	1.216	0.299	/
NR n14	Ant.4	Bottom side	10mm			158600	793	1	1	-0.19	0.097	23.65	24.50	1.216	0.118	/
NR n14	Ant.4	Front side	10mm			158600	793	25	14	0.19	0.303	23.63	24.50	1.222	0.370	/
NR n14	Ant.4	Back side	10mm			158600	793	25	14	-0.01	0.197	23.63	24.50	1.222	0.241	/
NR n14	Ant.4	Right side	10mm			158600	793	25	14	-0.06	0.225	23.63	24.50	1.222	0.275	/
NR n14	Ant.4	Bottom side	10mm			158600	793	25	14	-0.18	0.105	23.63	24.50	1.222	0.128	/

10.25 NR n25

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB Num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n25	Body-wron															
NR n25	Ant.0	Back side	0mm	(BW 40MHz) DFT-s-OFDM BPSK	15kHz	376500	1882.5	1	1	0.17	0.304	23.33	24.00	1.167	0.355	/
NR n25	Ant.0	Back side	0mm			374000	1870	1	1	-0.17	0.360	23.25	24.00	1.189	0.428	49
NR n25	Ant.0	Back side	0mm			379000	1895	1	1	-0.06	0.295	23.31	24.00	1.172	0.346	/
NR n25	Ant.0	Back side	0mm			376500	1882.5	108	54	0.14	0.289	23.28	24.00	1.180	0.341	/
NR n25	Ant.0	Back side	0mm			374000	1870	108	54	-0.05	0.307	23.21	24.00	1.199	0.368	/
NR n25	Ant.0	Back side	0mm			379000	1895	108	54	-0.12	0.261	23.27	24.00	1.183	0.309	/
NR n25	Hotspot Front of face															
NR n25	Ant.0	Front side	10mm	(BW 40MHz) DFT-s-OFDM BPSK	15kHz	376500	1882.5	1	1	0.16	0.145	23.33	24.00	1.167	0.169	/
NR n25	Ant.0	Back side	10mm			376500	1882.5	1	1	0.01	0.109	23.33	24.00	1.167	0.127	/
NR n25	Ant.0	Left side	10mm			376500	1882.5	1	1	0.17	0.259	23.33	24.00	1.167	0.302	/
NR n25	Ant.0	Bottom side	10mm			376500	1882.5	1	1	0.10	0.062	23.33	24.00	1.167	0.072	/
NR n25	Ant.0	Left side	10mm			374000	1870	1	1	0.08	0.290	23.25	24.00	1.189	0.345	50
NR n25	Ant.0	Left side	10mm			379000	1895	1	1	-0.08	0.272	23.31	24.00	1.172	0.319	/
NR n25	Ant.0	Front side	10mm			376500	1882.5	108	54	0.15	0.148	23.28	24.00	1.180	0.175	/
NR n25	Ant.0	Back side	10mm			376500	1882.5	108	54	-0.04	0.115	23.28	24.00	1.180	0.136	/
NR n25	Ant.0	Left side	10mm			376500	1882.5	108	54	-0.13	0.280	23.28	24.00	1.180	0.330	/
NR n25	Ant.0	Bottom side	10mm			376500	1882.5	108	54	-0.01	0.066	23.28	24.00	1.180	0.078	/
NR n25	Ant.0	Left side	10mm			374000	1870	108	54	0.14	0.268	23.21	24.00	1.199	0.321	/
NR n25	Ant.0	Left side	10mm			379000	1895	108	54	0.08	0.281	23.27	24.00	1.183	0.332	/

10.26 NR n26

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB Num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n26	Body-wron															
NR n26	Ant.4	Back side	0mm	(BW 20MHz) DFT-s-OFDM BPSK	15kHz	166300	831.5	1	1	0.06	0.294	23.62	24.50	1.225	0.360	/
NR n26	Ant.4	Back side	0mm			164800	824	1	1	-0.14	0.244	23.46	24.50	1.271	0.310	/
NR n26	Ant.4	Back side	0mm			167800	839	1	1	0.07	0.329	23.59	24.50	1.233	0.406	51
NR n26	Ant.4	Back side	0mm			166300	831.5	50	28	-0.07	0.317	23.57	24.50	1.239	0.393	/
NR n26	Ant.4	Back side	0mm			164800	824	50	28	0.06	0.283	23.48	24.50	1.265	0.358	/
NR n26	Ant.4	Back side	0mm			167800	839	50	28	0.09	0.314	23.52	24.50	1.253	0.393	/
NR n26	Hotspot	Front of face														
NR n26	Ant.4	Front side	10mm	(BW 20MHz) DFT-s-OFDM BPSK	15kHz	166300	831.5	1	1	-0.16	0.238	23.62	24.50	1.225	0.291	/
NR n26	Ant.4	Back side	10mm			166300	831.5	1	1	0.01	0.111	23.62	24.50	1.225	0.136	/
NR n26	Ant.4	Right side	10mm			166300	831.5	1	1	0.11	0.073	23.62	24.50	1.225	0.089	/
NR n26	Ant.4	Bottom side	10mm			166300	831.5	1	1	0.10	0.211	23.62	24.50	1.225	0.258	/
NR n26	Ant.4	Front side	10mm			164800	824	1	1	-0.10	0.174	23.46	24.50	1.271	0.221	/
NR n26	Ant.4	Front side	10mm			167800	839	1	1	0.08	0.288	23.59	24.50	1.233	0.355	52
NR n26	Ant.4	Front side	10mm			166300	831.5	50	28	0.01	0.279	23.57	24.50	1.239	0.346	/
NR n26	Ant.4	Back side	10mm			166300	831.5	50	28	0.02	0.141	23.57	24.50	1.239	0.175	/
NR n26	Ant.4	Right side	10mm			166300	831.5	50	28	0.03	0.094	23.57	24.50	1.239	0.116	/
NR n26	Ant.4	Bottom side	10mm			166300	831.5	50	28	0.16	0.225	23.57	24.50	1.239	0.279	/
NR n26	Ant.4	Front side	10mm			164800	824	50	28	0.17	0.226	23.48	24.50	1.265	0.286	/
NR n26	Ant.4	Front side	10mm			167800	839	50	28	0.02	0.267	23.52	24.50	1.253	0.335	/

10.27 NR n30

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB Num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.	
NR n30	Body-wron																
NR n30	Ant.0	Back side	0mm	(BW 10MHz) DFT-s-OFDM BPSK	15kHz	462000	2310	1	1	0.02	0.346	23.04	24.00	1.247	0.432	53	
NR n30	Ant.0	Back side	0mm			462000	2310	25	14	0.06	0.309	23.02	24.00	1.253	0.387	/	
NR n30	Hotspot	Front of face															/
NR n30	Ant.0	Front side	10mm	(BW 10MHz) DFT-s-OFDM BPSK	15kHz	462000	2310	1	1	-0.09	0.155	23.04	24.00	1.247	0.193	/	
NR n30	Ant.0	Back side	10mm			462000	2310	1	1	0.02	0.097	23.04	24.00	1.247	0.121	/	
NR n30	Ant.0	Left side	10mm			462000	2310	1	1	-0.01	0.188	23.04	24.00	1.247	0.235	54	
NR n30	Ant.0	Bottom side	10mm			462000	2310	1	1	-0.09	0.110	23.04	24.00	1.247	0.137	/	
NR n30	Ant.0	Front side	10mm			462000	2310	25	14	-0.01	0.159	23.02	24.00	1.253	0.199	/	
NR n30	Ant.0	Back side	10mm			462000	2310	25	14	-0.10	0.102	23.02	24.00	1.253	0.128	/	
NR n30	Ant.0	Left side	10mm			462000	2310	25	14	-0.12	0.175	23.02	24.00	1.253	0.219	/	
NR n30	Ant.0	Bottom side	10mm			462000	2310	25	14	-0.04	0.121	23.02	24.00	1.253	0.152	/	

10.28 NR n66

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB Num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n66	Body-wron			(BW 40MHz) DFT-s-OFDM BPSK	15kHz	349000	1745	1	1	0.19	0.280	23.36	24.00	1.159	0.324	55
NR n66	Ant.0	Back side	0mm			346000	1730	1	1	0.09	0.259	23.28	24.00	1.180	0.306	/
NR n66	Ant.0	Back side	0mm			352000	1760	1	1	0.12	0.275	23.31	24.00	1.172	0.322	/
NR n66	Ant.0	Back side	0mm			349000	1745	108	54	0.08	0.272	23.32	24.00	1.169	0.318	/
NR n66	Ant.0	Back side	0mm			346000	1730	108	54	-0.04	0.269	23.25	24.00	1.189	0.320	/
NR n66	Ant.0	Back side	0mm			352000	1760	108	54	-0.16	0.273	23.28	24.00	1.180	0.322	/
NR n66	Hotspot Front of face			(BW 40MHz) DFT-s-OFDM BPSK	15kHz	349000	1745	1	1	0.09	0.130	23.36	24.00	1.159	0.151	/
NR n66	Ant.0	Front side	10mm			349000	1745	1	1	0.14	0.108	23.36	24.00	1.159	0.125	/
NR n66	Ant.0	Back side	10mm			349000	1745	1	1	-0.11	0.163	23.36	24.00	1.159	0.189	/
NR n66	Ant.0	Left side	10mm			349000	1745	1	1	-0.08	0.067	23.36	24.00	1.159	0.078	/
NR n66	Ant.0	Bottom side	10mm			346000	1730	1	1	-0.18	0.151	23.28	24.00	1.180	0.178	/
NR n66	Ant.0	Left side	10mm			352000	1760	1	1	-0.07	0.200	23.31	24.00	1.172	0.234	56
NR n66	Ant.0	Front side	10mm			349000	1745	108	54	0.01	0.141	23.32	24.00	1.169	0.165	/
NR n66	Ant.0	Back side	10mm			349000	1745	108	54	0.10	0.103	23.32	24.00	1.169	0.120	/
NR n66	Ant.0	Left side	10mm			349000	1745	108	54	-0.15	0.185	23.32	24.00	1.169	0.216	/
NR n66	Ant.0	Bottom side	10mm			349000	1745	108	54	0.08	0.066	23.32	24.00	1.169	0.077	/
NR n66	Ant.0	Left side	10mm			346000	1730	108	54	-0.08	0.160	23.25	24.00	1.189	0.190	/
NR n66	Ant.0	Left side	10mm			352000	1760	108	54	0.03	0.195	23.28	24.00	1.180	0.230	/

10.29 NR n71

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB Num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.	
NR n71	Body-wron			(BW 20MHz) DFT-s-OFDM BPSK	15kHz	136100	680.5	1	1	0.09	0.088	23.87	25.00	1.297	0.114	57	
NR n71	Ant.4	Back side	0mm			134600	673	1	1	-0.13	0.081	23.84	25.00	1.306	0.106	/	
NR n71	Ant.4	Back side	0mm			137600	688	1	1	0.11	0.074	23.76	25.00	1.330	0.098	/	
NR n71	Ant.4	Back side	0mm			136100	680.5	50	28	0.14	0.081	23.86	25.00	1.300	0.105	/	
NR n71	Ant.4	Back side	0mm			134600	673	50	28	-0.17	0.073	23.82	25.00	1.312	0.096	/	
NR n71	Ant.4	Back side	0mm			137600	688	50	28	-0.04	0.082	23.78	25.00	1.324	0.108	/	
NR n71	Hotspot	Front of face			(BW 20MHz) DFT-s-OFDM BPSK	15kHz	136100	680.5	1	1	0.12	0.045	23.87	25.00	1.297	0.058	/
NR n71	Ant.4	Front side	10mm	136100			680.5	1	1	-0.17	0.088	23.87	25.00	1.297	0.114	/	
NR n71	Ant.4	Right side	10mm	136100			680.5	1	1	-0.13	0.090	23.87	25.00	1.297	0.116	58	
NR n71	Ant.4	Bottom side	10mm	136100			680.5	1	1	-0.10	0.033	23.87	25.00	1.297	0.043	/	
NR n71	Ant.4	Right side	10mm	134600			673	1	1	0.05	0.070	23.84	25.00	1.306	0.091	/	
NR n71	Ant.4	Right side	10mm	137600			688	1	1	0.09	0.060	23.76	25.00	1.330	0.080	/	
NR n71	Ant.4	Front side	10mm	136100			680.5	50	28	0.07	0.072	23.86	25.00	1.300	0.094	/	
NR n71	Ant.4	Back side	10mm	136100			680.5	50	28	0.10	0.083	23.86	25.00	1.300	0.108	/	
NR n71	Ant.4	Right side	10mm	136100			680.5	50	28	-0.05	0.065	23.86	25.00	1.300	0.085	/	
NR n71	Ant.4	Bottom side	10mm	136100			680.5	50	28	0.12	0.030	23.86	25.00	1.300	0.039	/	
NR n71	Ant.4	Right side	10mm	134600			673	50	28	0.06	0.077	23.82	25.00	1.312	0.101	/	
NR n71	Ant.4	Right side	10mm	137600			688	50	28	0.19	0.075	23.78	25.00	1.324	0.099	/	

10.30 NR n38

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n38	Body-wron															
NR n38	Ant.0	Back side	0mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	519000	2595	1	1	-0.11	0.341	23.93	25.00	1.279	0.436	/
NR n38	Ant.0	Back side	0mm			518004	2590.02	1	1	0.09	0.339	23.84	25.00	1.306	0.443	/
NR n38	Ant.0	Back side	0mm			519996	2599.98	1	1	0.08	0.341	23.91	25.00	1.285	0.438	/
NR n38	Ant.0	Back side	0mm			519000	2595	50	28	-0.12	0.326	23.92	25.00	1.282	0.418	/
NR n38	Ant.0	Back side	0mm			518004	2590.02	50	28	-0.04	0.333	23.82	25.00	1.312	0.437	/
NR n38	Ant.0	Back side	0mm			519996	2599.98	50	28	-0.14	0.320	23.88	25.00	1.294	0.414	/
NR n38	Ant.4	Back side	0mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	519000	2595	1	1	0.18	0.368	24.48	25.50	1.265	0.465	/
NR n38	Ant.4	Back side	0mm			518004	2590.02	1	1	0.04	0.360	24.43	25.00	1.140	0.410	/
NR n38	Ant.4	Back side	0mm			519996	2599.98	1	1	-0.05	0.423	24.47	25.00	1.130	0.478	59
NR n38	Ant.4	Back side	0mm			519000	2595	50	28	0.01	0.373	24.44	25.50	1.276	0.476	/
NR n38	Ant.4	Back side	0mm			518004	2590.02	50	28	-0.06	0.374	24.37	25.00	1.156	0.432	/
NR n38	Ant.4	Back side	0mm			519996	2599.98	50	28	0.02	0.385	24.42	25.00	1.143	0.440	/
NR n38	Hotspot Front of face															
NR n38	Ant.0	Front side	10mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	519000	2595	1	1	0.17	0.143	23.93	25.00	1.279	0.183	/
NR n38	Ant.0	Back side	10mm			519000	2595	1	1	0.17	0.102	23.93	25.00	1.279	0.130	/
NR n38	Ant.0	Left side	10mm			519000	2595	1	1	-0.19	0.149	23.93	25.00	1.279	0.191	/
NR n38	Ant.0	Bottom side	10mm			519000	2595	1	1	0.11	0.145	23.93	25.00	1.279	0.186	/
NR n38	Ant.0	Left side	10mm			518004	2590.02	1	1	-0.03	0.158	23.84	25.00	1.306	0.206	/
NR n38	Ant.0	Left side	10mm			519996	2599.98	1	1	-0.13	0.157	23.91	25.00	1.285	0.202	/
NR n38	Ant.0	Front side	10mm			519000	2595	50	28	0.05	0.156	23.92	25.00	1.282	0.200	/
NR n38	Ant.0	Back side	10mm			519000	2595	50	28	-0.04	0.106	23.92	25.00	1.282	0.136	/
NR n38	Ant.0	Left side	10mm			519000	2595	50	28	0.17	0.145	23.92	25.00	1.282	0.186	/
NR n38	Ant.0	Bottom side	10mm			519000	2595	50	28	-0.09	0.150	23.92	25.00	1.282	0.192	/
NR n38	Ant.0	Left side	10mm			518004	2590.02	50	28	0.15	0.151	23.82	25.00	1.312	0.198	/
NR n38	Ant.0	Left side	10mm			519996	2599.98	50	28	-0.19	0.155	23.88	25.00	1.294	0.201	/
NR n38	Ant.4	Front side	10mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	519000	2595	1	1	0.15	0.172	24.48	25.50	1.265	0.218	/
NR n38	Ant.4	Back side	10mm			519000	2595	1	1	0.01	0.110	24.48	25.50	1.265	0.139	/
NR n38	Ant.4	Right side	10mm			519000	2595	1	1	-0.02	0.145	24.48	25.50	1.265	0.183	/
NR n38	Ant.4	Bottom side	10mm			519000	2595	1	1	-0.05	0.071	24.48	25.50	1.265	0.090	/
NR n38	Ant.4	Right side	10mm			518004	2590.02	1	1	0.05	0.177	24.43	25.00	1.140	0.202	/
NR n38	Ant.4	Right side	10mm			519996	2599.98	1	1	-0.02	0.200	24.47	25.00	1.130	0.226	60
NR n38	Ant.4	Front side	10mm			519000	2595	50	28	-0.1	0.168	24.44	25.50	1.276	0.214	/
NR n38	Ant.4	Back side	10mm			519000	2595	50	28	-0.13	0.135	24.44	25.50	1.276	0.172	/
NR n38	Ant.4	Right side	10mm			519000	2595	50	28	-0.17	0.136	24.44	25.50	1.276	0.174	/
NR n38	Ant.4	Bottom side	10mm			519000	2595	50	28	-0.08	0.088	24.44	25.50	1.276	0.112	/
NR n38	Ant.4	Right side	10mm			518004	2590.02	50	28	-0.16	0.125	24.37	25.00	1.156	0.145	/
NR n38	Ant.4	Right side	10mm			519996	2599.98	50	28	0.03	0.178	24.42	25.00	1.143	0.203	/

10.31 NR n41

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n41	Body-wron															
NR n41	Ant.0	Back side	0mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	518598	2592.99	1	1	0.18	0.392	25.48	26.00	1.127	0.442	/
NR n41	Ant.0	Back side	0mm			509202	2546.01	1	1	-0.04	0.385	25.39	26.00	1.151	0.443	/
NR n41	Ant.0	Back side	0mm			528000	2640	1	1	0.16	0.372	25.43	26.00	1.140	0.424	/
NR n41	Ant.0	Back side	0mm			518598	2592.99	135	69	-0.02	0.376	25.42	26.00	1.143	0.430	/
NR n41	Ant.0	Back side	0mm			509202	2546.01	135	69	-0.15	0.380	25.35	26.00	1.161	0.441	/
NR n41	Ant.0	Back side	0mm			528000	2640	135	69	-0.05	0.360	25.39	26.00	1.151	0.414	/
NR n41	Ant.4	Back side	0mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	518598	2592.99	1	1	0.09	0.293	24.15	25.00	1.216	0.356	/
NR n41	Ant.4	Back side	0mm			509202	2546.01	1	1	0.18	0.311	24.13	25.00	1.222	0.380	/
NR n41	Ant.4	Back side	0mm			528000	2640	1	1	0.06	0.372	23.85	25.00	1.303	0.485	61
NR n41	Ant.4	Back side	0mm			518598	2592.99	135	69	-0.06	0.209	24.10	25.00	1.230	0.257	/
NR n41	Ant.4	Back side	0mm			509202	2546.01	135	69	0.13	0.298	24.03	25.00	1.250	0.373	/
NR n41	Ant.4	Back side	0mm			528000	2640	135	69	-0.04	0.338	23.83	25.00	1.309	0.443	/
NR n41	Hotspot Front of face															
NR n41	Ant.0	Front side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	518598	2592.99	1	1	-0.19	0.185	25.48	26.00	1.127	0.209	/
NR n41	Ant.0	Back side	10mm			518598	2592.99	1	1	0.03	0.101	25.48	26.00	1.127	0.114	/
NR n41	Ant.0	Left side	10mm			518598	2592.99	1	1	0.13	0.281	25.48	26.00	1.127	0.317	/
NR n41	Ant.0	Bottom side	10mm			518598	2592.99	1	1	0.13	0.184	25.48	26.00	1.127	0.207	/
NR n41	Ant.0	Left side	10mm			509202	2546.01	1	1	0.16	0.338	25.39	26.00	1.151	0.389	/
NR n41	Ant.0	Left side	10mm			528000	2640	1	1	0.01	0.323	25.43	26.00	1.140	0.368	/
NR n41	Ant.0	Front side	10mm			518598	2592.99	135	69	-0.09	0.209	25.42	26.00	1.143	0.239	/
NR n41	Ant.0	Back side	10mm			518598	2592.99	135	69	0.1	0.130	25.42	26.00	1.143	0.149	/
NR n41	Ant.0	Left side	10mm			518598	2592.99	135	69	0.19	0.337	25.42	26.00	1.143	0.385	/
NR n41	Ant.0	Bottom side	10mm			518598	2592.99	135	69	-0.15	0.176	25.42	26.00	1.143	0.201	/
NR n41	Ant.0	Left side	10mm			509202	2546.01	135	69	-0.05	0.303	25.35	26.00	1.161	0.352	/
NR n41	Ant.0	Left side	10mm			528000	2640	135	69	-0.06	0.327	25.39	26.00	1.151	0.376	/
NR n41	Ant.4	Front side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	518598	2592.99	1	1	0.12	0.099	24.15	25.00	1.216	0.120	/
NR n41	Ant.4	Back side	10mm			518598	2592.99	1	1	-0.17	0.075	24.15	25.00	1.216	0.091	/
NR n41	Ant.4	Right side	10mm			518598	2592.99	1	1	0.17	0.234	24.15	25.00	1.216	0.285	/
NR n41	Ant.4	Bottom side	10mm			518598	2592.99	1	1	0.02	0.066	24.15	25.00	1.216	0.080	/
NR n41	Ant.4	Right side	10mm			509202	2546.01	1	1	-0.14	0.225	24.13	25.00	1.222	0.275	/
NR n41	Ant.4	Right side	10mm			528000	2640	1	1	0.05	0.350	23.85	25.00	1.303	0.456	62
NR n41	Ant.4	Front side	10mm			518598	2592.99	135	69	0.13	0.098	24.10	25.00	1.230	0.121	/
NR n41	Ant.4	Back side	10mm			518598	2592.99	135	69	0.09	0.066	24.10	25.00	1.230	0.081	/
NR n41	Ant.4	Right side	10mm			518598	2592.99	135	69	-0.13	0.179	24.10	25.00	1.230	0.220	/
NR n41	Ant.4	Bottom side	10mm			518598	2592.99	135	69	0.15	0.060	24.10	25.00	1.230	0.074	/
NR n41	Ant.4	Right side	10mm			509202	2546.01	135	69	0.1	0.213	24.03	25.00	1.250	0.266	/
NR n41	Ant.4	Right side	10mm			528000	2640	135	69	-0.14	0.335	23.83	25.00	1.309	0.439	/

10.32 NR n48

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n48	Body-wron															
NR n48	Ant.1	Back side	0mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	641666	3624.99	1	1	0.19	0.322	19.14	20.00	1.219	0.393	/
NR n48	Ant.1	Back side	0mm			638000	3570	1	1	-0.17	0.294	19.12	20.00	1.225	0.360	/
NR n48	Ant.1	Back side	0mm			645332	3679.98	1	1	-0.05	0.381	19.06	20.00	1.242	0.473	63
NR n48	Ant.1	Back side	0mm			641666	3624.99	50	28	0.08	0.322	18.96	20.00	1.271	0.409	/
NR n48	Ant.1	Back side	0mm			638000	3570	50	28	-0.07	0.344	18.93	20.00	1.279	0.440	/
NR n48	Ant.1	Back side	0mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	645332	3679.98	50	28	-0.01	0.346	18.83	20.00	1.309	0.453	/
NR n48	Ant.4	Back side	0mm			641666	3624.99	1	1	0.1	0.034	21.85	23.00	1.303	0.044	/
NR n48	Ant.4	Back side	0mm			638000	3570	1	1	-0.05	0.045	21.83	23.00	1.309	0.059	/
NR n48	Ant.4	Back side	0mm			645332	3679.98	1	1	0.14	0.043	21.74	23.00	1.337	0.057	/
NR n48	Ant.4	Back side	0mm			641666	3624.99	50	28	0.15	0.038	21.77	23.00	1.327	0.050	/
NR n48	Ant.4	Back side	0mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	638000	3570	50	28	-0.13	0.041	21.71	23.00	1.346	0.055	/
NR n48	Ant.4	Back side	0mm			645332	3679.98	50	28	-0.09	0.040	21.63	23.00	1.371	0.055	/
NR n48	Hotspot	Front of face														
NR n48	Ant.1	Front side	10mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	641666	3624.99	1	1	0.06	0.125	19.14	20.00	1.219	0.152	/
NR n48	Ant.1	Back side	10mm			641666	3624.99	1	1	0.14	0.199	19.14	20.00	1.219	0.243	/
NR n48	Ant.1	Left side	10mm			641666	3624.99	1	1	0.09	0.302	19.14	20.00	1.219	0.368	/
NR n48	Ant.1	Left side	10mm			638000	3570	1	1	0.13	0.255	19.12	20.00	1.225	0.312	/
NR n48	Ant.1	Left side	10mm			645332	3679.98	1	1	-0.05	0.391	19.06	20.00	1.242	0.485	64
NR n48	Ant.1	Front side	10mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	641666	3624.99	50	28	-0.03	0.147	18.96	20.00	1.271	0.187	/
NR n48	Ant.1	Back side	10mm			641666	3624.99	50	28	0.05	0.200	18.96	20.00	1.271	0.254	/
NR n48	Ant.1	Left side	10mm			641666	3624.99	50	28	0.05	0.273	18.96	20.00	1.271	0.347	/
NR n48	Ant.1	Left side	10mm			638000	3570	50	28	-0.11	0.134	18.93	20.00	1.279	0.171	/
NR n48	Ant.1	Left side	10mm			645332	3679.98	50	28	0.17	0.286	18.83	20.00	1.309	0.374	/
NR n48	Ant.4	Front side	10mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	641666	3624.99	1	1	-0.12	0.056	21.85	23.00	1.303	0.073	/
NR n48	Ant.4	Back side	10mm			641666	3624.99	1	1	0.09	0.048	21.85	23.00	1.303	0.063	/
NR n48	Ant.4	Right side	10mm			641666	3624.99	1	1	-0.13	0.049	21.85	23.00	1.303	0.064	/
NR n48	Ant.4	Bottom side	10mm			641666	3624.99	1	1	0.08	0.022	21.85	23.00	1.303	0.029	/
NR n48	Ant.4	Front side	10mm			638000	3570	1	1	0.03	0.032	21.85	23.00	1.303	0.042	/
NR n48	Ant.4	Front side	10mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	645332	3679.98	1	1	0.08	0.033	21.83	23.00	1.309	0.043	/
NR n48	Ant.4	Front side	10mm			641666	3624.99	50	28	-0.01	0.053	21.77	23.00	1.327	0.070	/
NR n48	Ant.4	Back side	10mm			641666	3624.99	50	28	-0.15	0.045	21.77	23.00	1.327	0.060	/
NR n48	Ant.4	Right side	10mm			641666	3624.99	50	28	-0.03	0.024	21.77	23.00	1.327	0.032	/
NR n48	Ant.4	Bottom side	10mm			641666	3624.99	50	28	0.09	0.044	21.77	23.00	1.327	0.058	/
NR n48	Ant.4	Front side	10mm	(BW 40MHz) DFT-s-OFDM BPSK	30kHz	638000	3570	50	28	0.01	0.042	21.71	23.00	1.346	0.057	/
NR n48	Ant.4	Front side	10mm			645332	3679.98	50	28	-0.05	0.041	21.63	23.00	1.371	0.056	/

10.33 NR n77

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n77	Body-wron															
NR n77	Ant.1	Back side	0mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	636666	3549.99	1	1	0.15	0.339	20.46	21.50	1.271	0.431	/
NR n77	Ant.1	Back side	0mm			633334	3500.01	1	1	-0.04	0.356	20.34	21.50	1.306	0.465	65
NR n77	Ant.1	Back side	0mm			640000	3600	1	1	0.15	0.333	20.44	21.50	1.276	0.425	/
NR n77	Ant.1	Back side	0mm			636666	3549.99	135	69	0.15	0.321	20.42	21.50	1.282	0.412	/
NR n77	Ant.1	Back side	0mm			633334	3500.01	135	69	-0.14	0.338	20.12	21.50	1.374	0.464	/
NR n77	Ant.1	Back side	0mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	640000	3600	135	69	0.11	0.339	20.38	21.50	1.294	0.439	/
NR n77	Ant.4	Back side	0mm			636666	3549.99	1	1	0.14	0.034	25.54	26.00	1.112	0.038	/
NR n77	Ant.4	Back side	0mm			633334	3500.01	1	1	0.17	0.035	25.52	26.00	1.117	0.039	/
NR n77	Ant.4	Back side	0mm			640000	3600	1	1	0.06	0.033	25.43	26.00	1.140	0.038	/
NR n77	Ant.4	Back side	0mm			636666	3549.99	135	69	-0.12	0.042	25.49	26.00	1.125	0.047	/
NR n77	Ant.4	Back side	0mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	633334	3500.01	135	69	0.05	0.038	25.46	26.00	1.132	0.043	/
NR n77	Ant.4	Back side	0mm			640000	3600	135	69	-0.18	0.041	25.41	26.00	1.146	0.047	/
NR n77	Hotspot Front of face															
NR n77	Ant.1	Front side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	636666	3549.99	1	1	-0.06	0.145	20.46	21.50	1.271	0.184	/
NR n77	Ant.1	Back side	10mm			636666	3549.99	1	1	-0.09	0.260	20.46	21.50	1.271	0.330	/
NR n77	Ant.1	Left side	10mm			636666	3549.99	1	1	0.15	0.280	20.46	21.50	1.271	0.356	/
NR n77	Ant.1	Left side	10mm			633334	3500.01	1	1	0.18	0.294	20.34	21.50	1.306	0.384	/
NR n77	Ant.1	Left side	10mm			640000	3600	1	1	-0.17	0.302	20.44	21.50	1.276	0.385	66
NR n77	Ant.1	Front side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	636666	3549.99	135	69	0.03	0.114	20.42	21.50	1.282	0.146	/
NR n77	Ant.1	Back side	10mm			636666	3549.99	135	69	0.05	0.242	20.42	21.50	1.282	0.310	/
NR n77	Ant.1	Left side	10mm			636666	3549.99	135	69	0.08	0.268	20.42	21.50	1.282	0.344	/
NR n77	Ant.1	Left side	10mm			633334	3500.01	135	69	-0.04	0.262	20.12	21.50	1.374	0.360	/
NR n77	Ant.1	Left side	10mm			640000	3600	135	69	-0.17	0.297	20.38	21.50	1.294	0.384	/
NR n77	Ant.4	Front side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	636666	3549.99	1	1	-0.1	0.054	25.54	26.00	1.112	0.060	/
NR n77	Ant.4	Back side	10mm			636666	3549.99	1	1	-0.16	0.052	25.54	26.00	1.112	0.058	/
NR n77	Ant.4	Right side	10mm			636666	3549.99	1	1	-0.11	0.050	25.54	26.00	1.112	0.056	/
NR n77	Ant.4	Bottom side	10mm			636666	3549.99	1	1	0.16	0.047	25.54	26.00	1.112	0.052	/
NR n77	Ant.4	Front side	10mm			633334	3500.01	1	1	0.01	0.041	25.52	26.00	1.117	0.046	/
NR n77	Ant.4	Front side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	640000	3600	1	1	-0.07	0.046	25.43	26.00	1.140	0.052	/
NR n77	Ant.4	Front side	10mm			636666	3549.99	135	69	0.19	0.052	25.49	26.00	1.125	0.058	/
NR n77	Ant.4	Back side	10mm			636666	3549.99	135	69	0.14	0.045	25.49	26.00	1.125	0.051	/
NR n77	Ant.4	Right side	10mm			636666	3549.99	135	69	0.15	0.047	25.49	26.00	1.125	0.053	/
NR n77	Ant.4	Bottom side	10mm			636666	3549.99	135	69	0.02	0.044	25.49	26.00	1.125	0.049	/
NR n77	Ant.4	Front side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	633334	3500.01	135	69	0.16	0.038	25.46	26.00	1.132	0.043	/
NR n77	Ant.4	Front side	10mm			640000	3600	135	69	0.03	0.046	25.41	26.00	1.146	0.053	/

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n77	Body-wron															
NR n77	Ant.1	Back side	0mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	650000	3750	1	1	0.03	0.307	19.81	20.50	1.172	0.360	67
NR n77	Ant.1	Back side	0mm			656000	3840	1	1	-0.13	0.302	19.80	20.50	1.175	0.355	/
NR n77	Ant.1	Back side	0mm			662000	3930	1	1	0.06	0.250	19.57	20.50	1.239	0.310	/
NR n77	Ant.1	Back side	0mm			650000	3750	135	69	0.13	0.301	19.82	20.50	1.169	0.352	/
NR n77	Ant.1	Back side	0mm			656000	3840	135	69	0.08	0.295	19.77	20.50	1.183	0.349	/
NR n77	Ant.1	Back side	0mm			662000	3930	135	69	-0.18	0.268	19.48	20.50	1.265	0.339	/
NR n77	Ant.4	Back side	0mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	650000	3750	1	1	-0.15	0.051	25.41	26.00	1.146	0.058	/
NR n77	Ant.4	Back side	0mm			656000	3840	1	1	-0.19	0.050	25.35	26.00	1.161	0.058	/
NR n77	Ant.4	Back side	0mm			662000	3930	1	1	0.09	0.049	25.36	26.00	1.159	0.057	/
NR n77	Ant.4	Back side	0mm			650000	3750	135	69	-0.1	0.045	25.32	26.00	1.169	0.053	/
NR n77	Ant.4	Back side	0mm			656000	3840	135	69	0.12	0.042	25.27	26.00	1.183	0.050	/
NR n77	Ant.4	Back side	0mm			662000	3930	135	69	-0.03	0.044	25.03	26.00	1.250	0.055	/
NR n77	Hotspot Front of face															
NR n77	Ant.1	Front side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	650000	3750	1	1	0.02	0.328	19.81	20.50	1.172	0.384	/
NR n77	Ant.1	Back side	10mm			650000	3750	1	1	-0.01	0.241	19.81	20.50	1.172	0.282	/
NR n77	Ant.1	Left side	10mm			650000	3750	1	1	-0.07	0.528	19.81	20.50	1.172	0.619	68
NR n77	Ant.1	Left side	10mm			656000	3840	1	1	0.1	0.494	19.80	20.50	1.175	0.580	/
NR n77	Ant.1	Left side	10mm			662000	3930	1	1	-0.05	0.490	19.57	20.50	1.239	0.607	/
NR n77	Ant.1	Front side	10mm			650000	3750	135	69	0.15	0.375	19.82	20.50	1.169	0.439	/
NR n77	Ant.1	Back side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	650000	3750	135	69	-0.04	0.237	19.82	20.50	1.169	0.277	/
NR n77	Ant.1	Left side	10mm			650000	3750	135	69	0.12	0.449	19.82	20.50	1.169	0.525	/
NR n77	Ant.1	Left side	10mm			656000	3840	135	69	-0.05	0.449	19.77	20.50	1.183	0.531	/
NR n77	Ant.1	Left side	10mm			662000	3930	135	69	-0.18	0.458	19.48	20.50	1.265	0.579	/
NR n77	Ant.4	Front side	10mm			650000	3750	1	1	0.03	0.045	25.41	26.00	1.146	0.052	/
NR n77	Ant.4	Back side	10mm			650000	3750	1	1	0.18	0.034	25.41	26.00	1.146	0.039	/
NR n77	Ant.4	Right side	10mm			650000	3750	1	1	-0.05	0.042	25.41	26.00	1.146	0.048	/
NR n77	Ant.4	Bottom side	10mm			650000	3750	1	1	0.1	0.036	25.41	26.00	1.146	0.041	/
NR n77	Ant.4	Front side	10mm			656000	3840	1	1	0.04	0.038	25.35	26.00	1.161	0.044	/
NR n77	Ant.4	Front side	10mm			662000	3930	1	1	0.02	0.046	25.36	26.00	1.159	0.053	/
NR n77	Ant.4	Front side	10mm			650000	3750	135	69	-0.18	0.038	25.32	26.00	1.169	0.044	/
NR n77	Ant.4	Back side	10mm			650000	3750	135	69	-0.08	0.039	25.32	26.00	1.169	0.046	/
NR n77	Ant.4	Right side	10mm			650000	3750	135	69	-0.09	0.043	25.32	26.00	1.169	0.050	/
NR n77	Ant.4	Bottom side	10mm			650000	3750	135	69	-0.18	0.039	25.32	26.00	1.169	0.046	/
NR n77	Ant.4	Right side	10mm			656000	3840	135	69	0.03	0.041	25.27	26.00	1.183	0.049	/
NR n77	Ant.4	Right side	10mm			662000	3930	135	69	-0.04	0.034	25.03	26.00	1.250	0.043	/

10.34 NR n78

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n78	Body-wron															
NR n78	Ant.1	Back side	0mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	636666	3549.99	1	1	0.08	0.364	19.50	20.50	1.259	0.458	/
NR n78	Ant.1	Back side	0mm			633334	3500.01	1	1	-0.06	0.377	19.31	20.50	1.315	0.496	69
NR n78	Ant.1	Back side	0mm			640000	3600	1	1	-0.05	0.371	19.43	20.50	1.279	0.475	/
NR n78	Ant.1	Back side	0mm			636666	3549.99	135	69	0.12	0.361	19.43	20.50	1.279	0.462	/
NR n78	Ant.1	Back side	0mm			633334	3500.01	135	69	0.11	0.330	19.18	20.50	1.355	0.447	/
NR n78	Ant.1	Back side	0mm			640000	3600	135	69	0.16	0.371	19.39	20.50	1.291	0.479	/
NR n78	Ant.4	Back side	0mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	636666	3549.99	1	1	0.09	0.015	25.65	26.00	1.084	0.016	/
NR n78	Ant.4	Back side	0mm			633334	3500.01	1	1	-0.12	0.012	25.63	26.00	1.089	0.013	/
NR n78	Ant.4	Back side	0mm			640000	3600	1	1	0.05	0.013	25.54	26.00	1.112	0.014	/
NR n78	Ant.4	Back side	0mm			636666	3549.99	135	69	-0.18	0.045	25.60	26.00	1.096	0.049	/
NR n78	Ant.4	Back side	0mm			633334	3500.01	135	69	-0.08	0.045	25.57	26.00	1.104	0.050	/
NR n78	Ant.4	Back side	0mm			640000	3600	135	69	-0.03	0.046	25.52	26.00	1.117	0.051	/
NR n78	Hotspot Front of face															
NR n78	Ant.1	Front side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	636666	3549.99	1	1	-0.07	0.071	19.50	20.50	1.259	0.089	/
NR n78	Ant.1	Back side	10mm			636666	3549.99	1	1	-0.13	0.151	19.50	20.50	1.259	0.190	/
NR n78	Ant.1	Left side	10mm			636666	3549.99	1	1	-0.11	0.162	19.50	20.50	1.259	0.204	/
NR n78	Ant.1	Left side	10mm			633334	3500.01	1	1	-0.05	0.150	19.31	20.50	1.315	0.197	/
NR n78	Ant.1	Left side	10mm			640000	3600	1	1	-0.02	0.167	19.43	20.50	1.279	0.214	70
NR n78	Ant.1	Front side	10mm			636666	3549.99	135	69	-0.1	0.065	19.43	20.50	1.279	0.083	/
NR n78	Ant.1	Back side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	636666	3549.99	135	69	0.17	0.129	19.43	20.50	1.279	0.165	/
NR n78	Ant.1	Left side	10mm			636666	3549.99	135	69	-0.04	0.154	19.43	20.50	1.279	0.197	/
NR n78	Ant.1	Left side	10mm			633334	3500.01	135	69	-0.19	0.114	19.18	20.50	1.355	0.154	/
NR n78	Ant.1	Left side	10mm			640000	3600	135	69	-0.12	0.152	19.39	20.50	1.291	0.196	/
NR n78	Ant.4	Front side	10mm			636666	3549.99	1	1	0.18	0.041	25.65	26.00	1.084	0.044	/
NR n78	Ant.4	Back side	10mm			636666	3549.99	1	1	-0.13	0.043	25.65	26.00	1.084	0.047	/
NR n78	Ant.4	Right side	10mm			636666	3549.99	1	1	-0.1	0.038	25.65	26.00	1.084	0.041	/
NR n78	Ant.4	Bottom side	10mm			636666	3549.99	1	1	0.16	0.042	25.65	26.00	1.084	0.046	/
NR n78	Ant.4	Back side	10mm			633334	3500.01	1	1	0.06	0.037	25.63	26.00	1.089	0.040	/
NR n78	Ant.4	Back side	10mm			640000	3600	1	1	0.02	0.040	25.54	26.00	1.112	0.044	/
NR n78	Ant.4	Front side	10mm			636666	3549.99	135	69	-0.15	0.041	25.60	26.00	1.096	0.045	/
NR n78	Ant.4	Back side	10mm			636666	3549.99	135	69	-0.08	0.038	25.60	26.00	1.096	0.042	/
NR n78	Ant.4	Back side	10mm			636666	3549.99	135	69	-0.17	0.050	25.60	26.00	1.096	0.055	/
NR n78	Ant.4	Bottom side	10mm			636666	3549.99	135	69	-0.11	0.048	25.60	26.00	1.096	0.053	/
NR n78	Ant.4	Right side	10mm			633334	3500.01	135	69	0.04	0.049	25.60	26.00	1.096	0.054	/
NR n78	Ant.4	Right side	10mm			640000	3600	135	69	0.07	0.047	25.60	26.00	1.096	0.052	/

Test Band	Antenna	Test Position	Dist.	Test Mode	SCS	Channel	Freq.(MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
NR n78	Body-wron															
NR n78	Ant.1	Back side	0mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	650000	3750	1	1	0.16	0.358	19.21	20.00	1.199	0.429	71
NR n78	Ant.1	Back side	0mm			650000	3750	135	69	-0.14	0.323	19.17	20.00	1.211	0.391	/
NR n78	Ant.4	Back side	0mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	650000	3750	1	1	0.01	0.044	25.43	26.00	1.140	0.050	/
NR n78	Ant.4	Back side	0mm			650000	3750	135	69	-0.09	0.051	25.35	26.00	1.161	0.059	/
NR n78	Hotspot	Front of face														
NR n78	Ant.1	Front side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	650000	3750	1	1	0.19	0.230	19.21	20.00	1.199	0.276	/
NR n78	Ant.1	Back side	10mm			650000	3750	1	1	0.07	0.190	19.21	20.00	1.199	0.228	/
NR n78	Ant.1	Left side	10mm			650000	3750	1	1	-0.05	0.420	19.21	20.00	1.199	0.504	72
NR n78	Ant.1	Front side	10mm			650000	3750	135	69	-0.18	0.293	19.17	20.00	1.211	0.355	/
NR n78	Ant.1	Back side	10mm			650000	3750	135	69	-0.14	0.182	19.17	20.00	1.211	0.220	/
NR n78	Ant.1	Left side	10mm			650000	3750	135	69	-0.05	0.386	19.17	20.00	1.211	0.467	/
NR n78	Ant.4	Front side	10mm	(BW 100MHz) DFT-s-OFDM BPSK	30kHz	650000	3750	1	1	0.12	0.041	25.43	26.00	1.140	0.047	/
NR n78	Ant.4	Back side	10mm			650000	3750	1	1	0.12	0.042	25.43	26.00	1.140	0.048	/
NR n78	Ant.4	Right side	10mm			650000	3750	1	1	0.16	0.039	25.43	26.00	1.140	0.044	/
NR n78	Ant.4	Bottom side	10mm			650000	3750	1	1	-0.09	0.052	25.43	26.00	1.140	0.059	/
NR n78	Ant.4	Front side	10mm			650000	3750	135	69	0.13	0.047	25.35	26.00	1.161	0.055	/
NR n78	Ant.4	Back side	10mm			650000	3750	135	69	-0.1	0.042	25.35	26.00	1.161	0.049	/
NR n78	Ant.4	Right side	10mm			650000	3750	135	69	0.01	0.041	25.35	26.00	1.161	0.048	/
NR n78	Ant.4	Bottom side	10mm			650000	3750	135	69	0.1	0.051	25.35	26.00	1.161	0.059	/

10.35 Bluetooth

Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power(dBm)	Max tune-power(dBm)	Scaling Factor	Duty Cycle(%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Front of Face													
BLE	Front of face	10	0	2402	-0.01	0.013	15.92	16.50	1.143	76.30	1.311	0.019	/
BLE	Front of face	10	19	2440	-0.07	0.012	14.91	16.50	1.442	76.30	1.311	0.023	73
BLE	Front of face	10	39	2480	0.03	0.010	13.37	14.50	1.297	76.30	1.311	0.017	/
Body													
BLE	Back Side	0	0	2402	0.05	0.063	15.92	16.50	1.143	76.30	1.311	0.094	/
BLE	Back Side	0	19	2440	0.05	0.057	14.91	16.50	1.442	76.30	1.311	0.108	74
BLE	Back Side	0	39	2480	-0.09	0.042	13.37	14.50	1.297	76.30	1.311	0.071	/
Hotspot													
BLE	Front Side	10	0	2402	-0.04	0.016	15.92	16.50	1.143	76.30	1.311	0.018	/
BLE	Back Side	10	0	2402	0.05	0.021	15.92	16.50	1.143	76.30	1.311	0.024	/
BLE	Left Side	10	0	2402	0.09	0.006	15.92	16.50	1.143	76.30	1.311	0.007	/
BLE	Right Side	10	0	2402	-0.11	0.018	15.92	16.50	1.143	76.30	1.311	0.021	/
BLE	Bottom Side	10	0	2402	0.05	0.001	15.92	16.50	1.143	76.30	1.311	0.001	/
BLE	Back Side	10	19	2440	0.11	0.019	14.91	16.50	1.442	76.30	1.311	0.027	75
BLE	Back Side	10	39	2480	-0.07	0.016	13.37	14.50	1.297	76.30	1.311	0.021	/

10.36 2.4G WIFI

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power(dBm)	Max. tune-power(dBm)	Scaling Factor	Duty Cycle(%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Front of Face														
Ant.0	802.11 b	Front Side	10	1	2412	0.05	0.092	11.41	12.00	1.146	97.50	1.026	0.108	\
	802.11 b	Front Side	10	6	2437	-0.05	0.104	11.57	12.00	1.104	97.50	1.026	0.118	76
	802.11 b	Front Side	10	11	2462	-0.12	0.094	11.26	12.00	1.186	97.50	1.026	0.114	\
Ant.1	802.11 b	Front Side	10	1	2412	-0.12	0.105	11.81	12.00	1.045	97.50	1.026	0.113	\
	802.11 b	Front Side	10	6	2437	0.06	0.102	11.53	12.00	1.114	97.50	1.026	0.117	\
	802.11 b	Front Side	10	11	2462	0.13	0.091	11.84	12.00	1.038	97.50	1.026	0.097	\
MIMO	802.11n (HT40)	Front Side	10	3	2422	0.01	0.102	14.72	15.00	1.067	99.30	1.007	0.110	\
	802.11n (HT40)	Front Side	10	6	2437	-0.08	0.098	14.28	15.00	1.180	99.30	1.007	0.116	\
	802.11n (HT40)	Front Side	10	9	2452	0.05	0.096	14.21	15.00	1.199	99.30	1.007	0.116	\
Body														
Ant.0	802.11 b	Back Side	0	1	2412	-0.01	0.503	11.41	12.00	1.146	97.50	1.026	0.591	\
	802.11 b	Back Side	0	6	2437	-0.01	0.546	11.57	12.00	1.104	97.50	1.026	0.618	77
	802.11 b	Back Side	0	11	2462	-0.07	0.392	11.26	12.00	1.186	97.50	1.026	0.477	\
Ant.1	802.11 b	Back Side	0	1	2412	0.00	0.330	11.81	12.00	1.045	97.50	1.026	0.354	\
	802.11 b	Back Side	0	6	2437	0.06	0.290	11.53	12.00	1.114	97.50	1.026	0.331	\
	802.11 b	Back Side	0	11	2462	0.08	0.315	11.84	12.00	1.038	97.50	1.026	0.335	\
MIMO	802.11n (HT40)	Back Side	0	3	2422	0.05	0.451	14.72	15.00	1.067	99.30	1.007	0.485	\
	802.11n (HT40)	Back Side	0	6	2437	0.09	0.468	14.28	15.00	1.180	99.30	1.007	0.556	\
	802.11n (HT40)	Back Side	0	9	2452	-0.02	0.458	14.21	15.00	1.199	99.30	1.007	0.553	\
Hotspot														
Ant.0	802.11 b	Front Side	10	6	2437	0.01	0.148	11.57	12.00	1.104	97.50	1.026	0.168	\
	802.11 b	Back Side	10	6	2437	0.02	0.167	11.57	12.00	1.104	97.50	1.026	0.189	\
	802.11 b	Left Side	10	6	2437	-0.07	0.036	11.57	12.00	1.104	97.50	1.026	0.041	\
	802.11 b	Right Side	10	6	2437	-0.02	0.228	11.57	12.00	1.104	97.50	1.026	0.258	\
	802.11 b	Right Side	10	1	2412	-0.12	0.233	11.41	12.00	1.146	97.50	1.026	0.274	\
Ant.1	802.11 b	Right Side	10	11	2462	-0.04	0.181	11.26	12.00	1.186	97.50	1.026	0.220	\
	802.11 b	Front Side	10	11	2462	-0.04	0.200	11.84	12.00	1.038	97.50	1.026	0.213	\
	802.11 b	Back Side	10	11	2462	0.07	0.112	11.84	12.00	1.038	97.50	1.026	0.119	\
	802.11 b	Left Side	10	11	2462	-0.10	0.017	11.84	12.00	1.038	97.50	1.026	0.018	\
	802.11 b	Right Side	10	11	2462	0.03	0.159	11.84	12.00	1.038	97.50	1.026	0.169	\
MIMO	802.11 b	Front Side	10	1	2412	0.03	0.153	11.81	12.00	1.045	97.50	1.026	0.164	\
	802.11 b	Front Side	10	6	2437	-0.11	0.143	11.53	12.00	1.114	97.50	1.026	0.163	\
	802.11n (HT40)	Front Side	10	3	2422	-0.12	0.149	14.72	15.00	1.067	99.30	1.007	0.160	\
	802.11n (HT40)	Back Side	10	3	2422	-0.05	0.138	14.72	15.00	1.067	99.30	1.007	0.148	\
	802.11n (HT40)	Left Side	10	3	2422	-0.10	0.033	14.72	15.00	1.067	99.30	1.007	0.035	\
	802.11n (HT40)	Right Side	10	3	2422	0.12	0.261	14.72	15.00	1.067	99.30	1.007	0.280	\
	802.11n (HT40)	Right Side	10	6	2437	0.02	0.238	14.28	15.00	1.180	99.30	1.007	0.283	78
	802.11n (HT40)	Right Side	10	9	2452	0.06	0.224	14.21	15.00	1.199	99.30	1.007	0.270	\

10.37 5G WIFI

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power(dBm)	Max. tune-power(dBm)	Scaling Factor	Duty Cycle(%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.	
Front of Face															
Ant.0	5.3G	802.11ac (VHT80)	Front Side	10	58	5290	0.14	0.048	10.85	11.00	1.084	99.40	1.008	0.052	79
Ant.1	5.3G	802.11ac (VHT80)	Front Side	10	58	5290	-0.07	0.035	10.81	11.00	1.094	99.40	1.008	0.039	/
MIMO	5.3G	802.11ac (VHT80)	Front Side	10	58	5290	0.06	0.046	13.66	14.00	1.081	99.40	1.008	0.050	/
Ant.0	5.8G	802.11ac (VHT160)	Front Side	10	114	5570	0.13	0.027	10.50	11.00	1.122	99.30	1.007	0.031	80
Ant.1	5.8G	802.11ac (VHT160)	Front Side	10	114	5570	0.04	0.021	10.33	11.00	1.167	99.30	1.007	0.025	/
MIMO	5.8G	802.11ac (VHT160)	Front Side	10	114	5570	-0.08	0.025	13.52	14.00	1.117	99.30	1.007	0.028	/
Ant.0	5.8G	802.11ac (VHT80)	Front Side	10	155	5775	-0.07	0.030	11.33	12.00	1.167	99.40	1.008	0.035	/
Ant.1	5.8G	802.11ac (VHT80)	Front Side	10	155	5775	-0.12	0.025	11.46	12.00	1.132	99.40	1.008	0.028	/
MIMO	5.8G	802.11ac (VHT80)	Front Side	10	155	5775	0.03	0.031	14.18	15.00	1.208	99.40	1.008	0.038	81
Body															
Ant.0	5.3G	802.11ac (VHT80)	Back Side	0	58	5290	-0.02	0.528	10.85	11.00	1.084	99.40	1.008	0.576	/
Ant.1	5.3G	802.11ac (VHT80)	Back Side	0	58	5290	0.14	0.089	10.81	11.00	1.094	99.40	1.008	0.098	/
MIMO	5.3G	802.11ac (VHT80)	Back Side	0	58	5290	-0.02	0.554	13.66	14.00	1.081	99.40	1.008	0.603	82
Ant.0	5.8G	802.11ac (VHT160)	Back Side	0	114	5570	0.03	0.585	10.50	11.00	1.122	99.30	1.007	0.661	83
Ant.1	5.8G	802.11ac (VHT160)	Back Side	0	114	5570	-0.05	0.119	10.33	11.00	1.167	99.30	1.007	0.140	/
MIMO	5.8G	802.11ac (VHT160)	Back Side	0	114	5570	-0.10	0.578	13.52	14.00	1.117	99.30	1.007	0.648	/
Ant.0	5.8G	802.11ac (VHT80)	Back Side	0	155	5775	0.03	0.418	11.33	12.00	1.167	99.40	1.008	0.491	/
Ant.1	5.8G	802.11ac (VHT80)	Back Side	0	155	5775	-0.09	0.095	11.46	12.00	1.132	99.40	1.008	0.108	/
MIMO	5.8G	802.11ac (VHT80)	Back Side	0	155	5775	0.02	0.554	14.18	15.00	1.208	99.40	1.008	0.673	84
Hotspot															
Ant.0	5.2G	802.11ac (VHT80)	Front Side	10	42	5210	-0.02	0.067	10.75	11.00	1.059	99.40	1.008	0.071	/
	5.2G	802.11ac (VHT80)	Back Side	10	42	5210	0.00	0.122	10.75	11.00	1.059	99.40	1.008	0.130	/
	5.2G	802.11ac (VHT80)	Left Side	10	42	5210	0.03	0.119	10.75	11.00	1.059	99.40	1.008	0.127	/
	5.2G	802.11ac (VHT80)	Right Side	10	42	5210	0.13	0.006	10.75	11.00	1.059	99.40	1.008	0.006	/
Ant.1	5.2G	802.11ac (VHT80)	Front Side	10	42	5210	0.02	0.044	10.55	11.00	1.109	99.40	1.008	0.049	/
	5.2G	802.11ac (VHT80)	Back Side	10	42	5210	-0.09	0.019	10.55	11.00	1.109	99.40	1.008	0.021	/
	5.2G	802.11ac (VHT80)	Left Side	10	42	5210	0.01	0.072	10.55	11.00	1.109	99.40	1.008	0.080	/
	5.2G	802.11ac (VHT80)	Right Side	10	42	5210	0.02	0.005	10.55	11.00	1.109	99.40	1.008	0.006	/
MIMO	5.2G	802.11ac (VHT80)	Front Side	10	42	5210	-0.08	0.085	13.62	14.00	1.091	99.40	1.008	0.093	/
	5.2G	802.11ac (VHT80)	Back Side	10	42	5210	-0.03	0.158	13.62	14.00	1.091	99.40	1.008	0.173	85
	5.2G	802.11ac (VHT80)	Left Side	10	42	5210	0.04	0.145	13.62	14.00	1.091	99.40	1.008	0.159	/
	5.2G	802.11ac (VHT80)	Right Side	10	42	5210	-0.10	0.008	13.62	14.00	1.091	99.40	1.008	0.009	/
Ant.0	5.8G	802.11ac (VHT80)	Front Side	10	155	5775	-0.02	0.056	11.33	12.00	1.167	99.40	1.008	0.068	/
	5.8G	802.11ac (VHT80)	Back Side	10	155	5775	0.00	0.162	11.33	12.00	1.167	99.40	1.008	0.190	/
	5.8G	802.11ac (VHT80)	Left Side	10	155	5775	-0.01	0.181	11.33	12.00	1.167	99.40	1.008	0.212	/
	5.8G	802.11ac (VHT80)	Right Side	10	155	5775	-0.02	0.016	11.33	12.00	1.167	99.40	1.008	0.019	/
Ant.1	5.8G	802.11ac (VHT80)	Front Side	10	155	5775	0.12	0.049	11.46	12.00	1.132	99.50	1.005	0.058	/
	5.8G	802.11ac (VHT80)	Back Side	10	155	5775	-0.03	0.029	11.46	12.00	1.132	99.50	1.005	0.033	/
	5.8G	802.11ac (VHT80)	Left Side	10	155	5775	-0.11	0.108	11.46	12.00	1.132	99.50	1.005	0.123	/
	5.8G	802.11ac (VHT80)	Right Side	10	155	5775	0.11	0.009	11.46	12.00	1.132	99.50	1.005	0.010	/
MIMO	5.8G	802.11ac (VHT80)	Front Side	10	155	5775	0.00	0.074	14.18	15.00	1.208	99.40	1.008	0.090	/
	5.8G	802.11ac (VHT80)	Back Side	10	155	5775	0.01	0.169	14.18	15.00	1.208	99.40	1.008	0.205	/
	5.8G	802.11ac (VHT80)	Left Side	10	155	5775	-0.13	0.177	14.18	15.00	1.208	99.40	1.008	0.215	86
	5.8G	802.11ac (VHT80)	Right Side	10	155	5775	0.00	0.028	14.18	15.00	1.208	99.40	1.008	0.034	/

10.38 6G WIFI

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power(dBm)	Max. tune-power(dBm)	Scaling Factor	Duty Cycle(%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Front of Face														
Ant.0	6G	802.11ax (HE160)	Front of face	10	15	8025	0.03	0.051	11.57	1.104	98.90	1.011	0.057	/
	6G	802.11ax (HE160)	Front of face	10	47	8185	-0.09	0.083	11.40	1.148	98.90	1.011	0.073	/
	6G	802.11ax (HE160)	Front of face	10	79	8345	0.13	0.086	11.45	1.135	98.90	1.011	0.078	/
	6G	802.11ax (HE160)	Front of face	10	111	8505	0.01	0.090	11.25	1.189	98.90	1.011	0.108	87
	6G	802.11ax (HE160)	Front of face	10	143	8685	-0.10	0.059	10.70	1.349	98.90	1.011	0.080	/
	6G	802.11ax (HE160)	Front of face	10	175	8825	-0.01	0.096	11.77	1.054	98.90	1.011	0.102	/
Ant.1	6G	802.11ax (HE160)	Front of face	10	207	8985	-0.06	0.082	11.54	1.112	98.90	1.011	0.092	/
	6G	802.11ax (HE160)	Front of face	10	15	8025	0.13	0.050	11.31	1.172	98.90	1.011	0.059	/
	6G	802.11ax (HE160)	Front of face	10	47	8185	-0.09	0.078	11.85	1.084	98.90	1.011	0.085	/
	6G	802.11ax (HE160)	Front of face	10	79	8345	0.06	0.090	11.34	1.164	98.90	1.011	0.106	/
	6G	802.11ax (HE160)	Front of face	10	111	8505	0.09	0.086	11.80	1.096	98.90	1.011	0.095	/
	6G	802.11ax (HE160)	Front of face	10	143	8685	-0.05	0.067	11.38	1.153	98.90	1.011	0.078	/
MIMO	6G	802.11ax (HE160)	Front of face	10	175	8825	-0.07	0.045	11.28	1.180	98.90	1.011	0.054	/
	6G	802.11ax (HE160)	Front of face	10	207	8985	0.05	0.036	11.58	1.102	98.90	1.011	0.040	/
	6G	802.11ax (HE160)	Front of face	10	15	8025	0.02	0.049	11.59	1.099	98.90	1.011	0.054	/
	6G	802.11ax (HE160)	Front of face	10	47	8185	0.10	0.072	10.74	1.337	98.90	1.011	0.097	/
	6G	802.11ax (HE160)	Front of face	10	79	8345	-0.10	0.070	9.21	1.510	98.90	1.011	0.107	/
	6G	802.11ax (HE160)	Front of face	10	111	8505	0.07	0.083	11.15	1.216	98.90	1.011	0.102	/
Body	6G	802.11ax (HE160)	Front of face	10	143	8685	0.01	0.078	10.80	1.318	98.90	1.011	0.104	/
	6G	802.11ax (HE160)	Front of face	10	175	8825	0.11	0.081	11.36	1.159	98.90	1.011	0.095	/
	6G	802.11ax (HE160)	Front of face	10	207	8985	0.07	0.086	11.87	1.079	98.90	1.011	0.094	/
	6G	802.11ax (HE160)	Back Side	0	15	8025	-0.07	0.803	11.57	1.104	98.90	1.011	0.673	88
	6G	802.11ax (HE160)	Back Side	0	47	8185	-0.04	0.550	11.40	1.148	98.90	1.011	0.638	/
	6G	802.11ax (HE160)	Back Side	0	79	8345	0.13	0.529	11.45	1.135	98.90	1.011	0.607	/
Ant.0	6G	802.11ax (HE160)	Back Side	0	111	8505	0.01	0.510	11.25	1.189	98.90	1.011	0.613	/
	6G	802.11ax (HE160)	Back Side	0	143	8685	-0.02	0.371	10.70	1.349	98.90	1.011	0.506	/
	6G	802.11ax (HE160)	Back Side	0	175	8825	-0.04	0.325	11.77	1.054	98.90	1.011	0.346	/
	6G	802.11ax (HE160)	Back Side	0	207	8985	0.09	0.320	11.54	1.112	98.90	1.011	0.360	/
	6G	802.11ax (HE160)	Back Side	0	15	8025	0.07	0.087	11.31	1.172	98.90	1.011	0.103	/
	6G	802.11ax (HE160)	Back Side	0	47	8185	0.09	0.107	11.65	1.084	98.90	1.011	0.117	/
Ant.1	6G	802.11ax (HE160)	Back Side	0	79	8345	0.11	0.109	11.34	1.164	98.90	1.011	0.128	/
	6G	802.11ax (HE160)	Back Side	0	111	8505	-0.07	0.133	11.80	1.096	98.90	1.011	0.147	/
	6G	802.11ax (HE160)	Back Side	0	143	8685	0.07	0.103	11.38	1.153	98.90	1.011	0.120	/
	6G	802.11ax (HE160)	Back Side	0	175	8825	-0.11	0.084	11.28	1.180	98.90	1.011	0.100	/
	6G	802.11ax (HE160)	Back Side	0	207	8985	0.14	0.067	11.58	1.102	98.90	1.011	0.075	/
	6G	802.11ax (HE160)	Back Side	0	15	8025	0.09	0.467	11.59	1.099	98.90	1.011	0.508	/
MIMO	6G	802.11ax (HE160)	Back Side	0	47	8185	0.04	0.492	10.74	1.337	98.90	1.011	0.665	/
	6G	802.11ax (HE160)	Back Side	0	79	8345	-0.05	0.382	9.21	1.510	98.90	1.011	0.583	/
	6G	802.11ax (HE160)	Back Side	0	111	8505	0.01	0.521	11.15	1.216	98.90	1.011	0.641	/
	6G	802.11ax (HE160)	Back Side	0	143	8685	-0.05	0.455	10.80	1.318	98.90	1.011	0.606	/
	6G	802.11ax (HE160)	Back Side	0	175	8825	-0.06	0.354	11.36	1.159	98.90	1.011	0.415	/
	6G	802.11ax (HE160)	Back Side	0	207	8985	-0.04	0.275	11.87	1.079	98.90	1.011	0.300	/
Limbs														
Ant.0	6G	802.11ax (HE160)	Front Side	0	175	8825	-0.01	0.026	11.77	1.054	98.90	1.011	0.028	/
	6G	802.11ax (HE160)	Back Side	0	175	8825	0.01	0.118	11.77	1.054	98.90	1.011	0.126	/
	6G	802.11ax (HE160)	Right Edge	0	175	8825	-0.02	0.010	11.77	1.054	98.90	1.011	0.011	/
	6G	802.11ax (HE160)	Left Edge	0	175	8825	0.13	0.169	11.77	1.054	98.90	1.011	0.180	/
	6G	802.11ax (HE160)	Left Edge	0	15	8025	0.19	0.256	11.57	1.104	98.90	1.011	0.286	89
	6G	802.11ax (HE160)	Left Edge	0	47	8185	0.04	0.210	11.40	1.148	98.90	1.011	0.244	/
Ant.1	6G	802.11ax (HE160)	Left Edge	0	79	8345	0.08	0.205	11.45	1.135	98.90	1.011	0.235	/
	6G	802.11ax (HE160)	Left Edge	0	111	8505	0.07	0.213	11.25	1.189	98.90	1.011	0.256	/
	6G	802.11ax (HE160)	Left Edge	0	143	8685	0.06	0.178	10.70	1.349	98.90	1.011	0.243	/
	6G	802.11ax (HE160)	Left Edge	0	207	8985	-0.02	0.156	11.54	1.112	98.90	1.011	0.175	/
	6G	802.11ax (HE160)	Front Side	0	47	8185	0.09	0.093	11.85	1.084	98.90	1.011	0.102	/
	6G	802.11ax (HE160)	Back Side	0	47	8185	-0.03	0.096	11.65	1.084	98.90	1.011	0.105	/
MIMO	6G	802.11ax (HE160)	Right Edge	0	47	8185	0.12	0.016	11.85	1.084	98.90	1.011	0.018	/
	6G	802.11ax (HE160)	Left Edge	0	47	8185	-0.01	0.189	11.85	1.084	98.90	1.011	0.207	/
	6G	802.11ax (HE160)	Left Edge	0	15	8025	0.00	0.138	11.31	1.172	98.90	1.011	0.164	/
	6G	802.11ax (HE160)	Left Edge	0	79	8345	0.13	0.163	11.34	1.164	98.90	1.011	0.192	/
	6G	802.11ax (HE160)	Left Edge	0	111	8505	0.14	0.210	11.80	1.096	98.90	1.011	0.233	/
	6G	802.11ax (HE160)	Left Edge	0	143	8685	-0.12	0.162	11.38	1.153	98.90	1.011	0.189	/
MIMO	6G	802.11ax (HE160)	Left Edge	0	175	8825	-0.01	0.175	11.28	1.180	98.90	1.011	0.209	/
	6G	802.11ax (HE160)	Left Edge	0	207	8985	0.09	0.165	11.58	1.102	98.90	1.011	0.184	/
	6G	802.11ax (HE160)	Front Side	0	207	8985	0.10	0.085	11.87	1.079	98.90	1.011	0.093	/
	6G	802.11ax (HE160)	Back Side	0	207	8985	0.14	0.110	11.87	1.079	98.90	1.011	0.120	/
	6G	802.11ax (HE160)	Right Edge	0	207	8985	0.02	0.017	11.87	1.079	98.90	1.011	0.019	/
	6G	802.11ax (HE160)	Left Edge	0	207	8985	-0.03	0.182	11.87	1.079	98.90	1.011	0.199	/
MIMO	6G	802.11ax (HE160)	Left Edge	0	15	8025	0.02	0.249	11.59	1.099	98.90	1.011	0.277	/
	6G	802.11ax (HE160)	Left Edge	0	47	8185	0.10	0.183	10.74	1.337	98.90	1.011	0.247	/
	6G	802.11ax (HE160)	Left Edge	0	79	8345	0.10	0.185	9.21	1.510	98.90	1.011	0.282	/
	6G	802.11ax (HE160)	Left Edge	0	111	8505	-0.12	0.226	11.15	1.216	98.90	1.011	0.278	/
	6G	802.11ax (HE160)	Left Edge	0	143	8685	-0.03	0.213	10.80	1.318	98.90	1.011	0.284	/
	6G	802.11ax (HE160)	Left Edge	0	175	8825	0.10	0.185	11.36	1.159	98.90	1.011	0.217	/

10.39 NFC

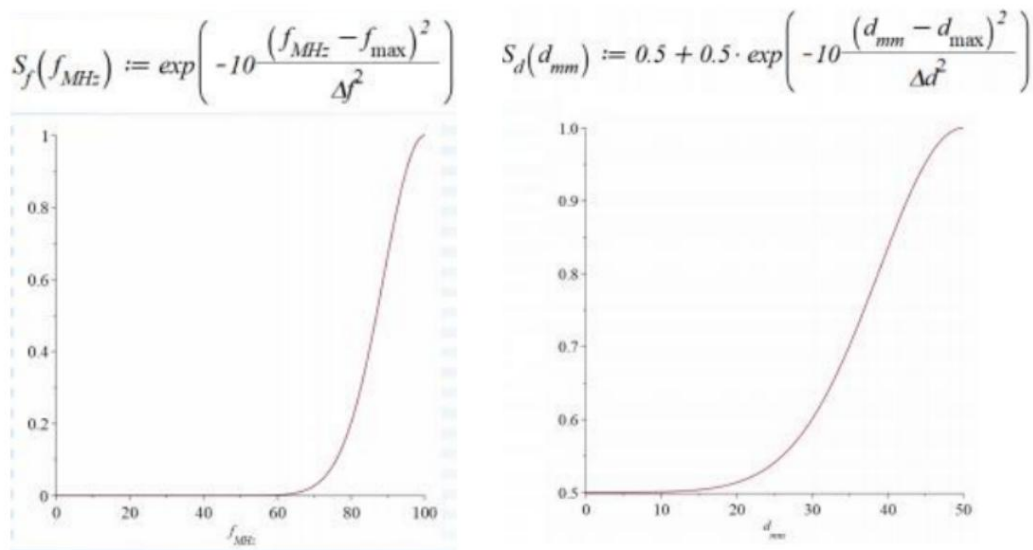
1. According to the 2022.04 TCBC Workshop meeting, the power threshold is $\leq 100\text{MHz}$, refer to P6s.

$$P_{7X}(d_{mm}, f_{MHz}) := \begin{cases} P_{6S}(d_{mm}, f_{MHz}) & f_{MHz} \leq 100 \\ P_{6to7}(d_{mm}, f_{MHz}) & 100 < f_{MHz} \leq 300 \\ P_7(d_{mm}, f_{MHz}) & 300 < f_{MHz} \end{cases}$$

2. For portable products, when using a distance of $\leq 50\text{mm}$, such as mobile phone NFC, P6s is calculated with the following formula calculate.

$$S_f(f_{MHz}) \cdot P_{431a}(d_{mm}, f_{MHz}) + (1 - S_f(f_{MHz})) \cdot S_d(d_{mm}) \cdot P_{431b1}(50., 100.) \cdot \left(1 + \log_{10}\left(\frac{100.}{f_{MHz}}\right)\right) \quad d_{mm} \leq 50 \text{ and } f_{MHz} \leq 100$$

3. The smoothing functions Sf and Sd in P6s calculate the limits based on KDB 447498 V06 and are calculated as follows.



d≤50mm			
f Max(MHz)	100	d Max(mm)	50
f MHz	13.56	d(mm)	5
△f(MHz)	100	△d	50
Sf(f _{MHz})	0.000568861	Sd (d _{mm})	0.50015177
P6s(mW)	443.1257378		
Note: SAR testing is required when the distance is 5mm and the power is greater than 443.13mW.			

4. According to the ANSI C63.10 clause 11.12.2.2:

The value of maximum peak output power is according to the method described in ANSI C63.10 clause 11.12.2.2 General procedure for conducted measurements in restricted bands:

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the ERP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the ERP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant ERP level to an equivalent electric field strength using the following relationship: $E = ERP - 20\log D + 104.8$

where:

E = electric field strength in dB μ V/m,

ERP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Mode	f (MHz)	Max. E-Field strength (dB μ V/m)	D (m)	Ground reflection factor (dB)	ERP (dBm)
NFC (13.56MHz)	13.56	54.66	3	6	-24.14
Note: 1. Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies ≤ 30 MHz). 2. $ERP = 54.66 + 20 \cdot \log(10) - 104.8 + 6 = -24.14$ (dBm)					

According to the FCC KDB 447498 D04

Estimated SAR: $SAR_{test} = 1.6 \cdot P_{ant} / P_{th}$ [W/kg]

Estimated SAR	$1.6 \cdot P_{ant} / P_{th}$ [W/kg]		
P _{meas} .(dBm)	-24.14	P _{meas} .(mW)	0.004
P _{th} .(mW)	443.13		
NFC Estimated 1g SAR [W/kg]	<0.001		

11 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

11.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Front of face	Body-worn	Hotspot
1	WWAN + WLAN 2.4GHz(chain 0)	Yes	Yes	Yes
2	WWAN + WLAN 2.4GHz(chain 1)	Yes	Yes	Yes
3	WWAN + WLAN 2.4GHz MIMO	Yes	Yes	Yes
4	WWAN + WLAN 5/6GHz(chain 0)	Yes	Yes	Yes
5	WWAN + WLAN 5/6GHz(chain 1)	Yes	Yes	Yes
6	WWAN + WLAN 5/6GHz MIMO	Yes	Yes	Yes
7	WWAN + WLAN 2.4GHz (chain 0) + WLAN 5/6GHz (chain 1)	Yes	Yes	Yes
8	WWAN + WLAN 2.4GHz (chain 1) + WLAN 5/6GHz (chain 0)	Yes	Yes	Yes

Note:

- 2.4G WLAN can't transmit simultaneously with Bluetooth or 5G WLAN.
- WWAN antennas can switch automatically, but up and down antenna can't transmit simultaneously.
- The maximum SAR summation is calculated based on the same configuration and test position.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 2.4GHz WLAN/5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz WLAN/5.5GHz WLAN supports WiFi Direct (GC only).

11.2 Evaluation by Summation of Peak Spatial-averaged SAR Values

Please refer the document "BL-SH2580981-AST.pdf".

11.3 Highest Total Exposure Ratio of Simultaneous Transmission

NFC multi-transmit requires the use of the TER formula:

$$TER = \sum_{k=1}^{N_s} \left(\frac{SAR_k}{SAR_{lim}} \right) + \sum_{k=1}^{N_f} \left(\frac{MPE_{field, k}}{MPE_{field, lim}} \right)^2 + \sum_{k=1}^{N_{PD}} \left(\frac{MPE_{PD, k}}{MPE_{PD, lim}} \right) \quad \text{The}$$

maximum SAR value for Simultaneous Transmission is 1.585 [W/kg]. Therefore, the worst TER = (1.585+0.001)/1.6 = 0.991 < 1, the NFC SAR transmit simultaneously Pass.

12 TEST EQUIPMENTS LIST

This is Shanghai Tejet Communications Technology Co., Ltd. Testing Center test equipment list

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.10.4.1535	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	1201	2024/09/03	2027/09/03
835MHz Validation Dipole	Speag	D835V2	4d277	2024/08/30	2027/08/30
1750MHz Validation Dipole	Speag	D1750V2	1183	2024/09/03	2027/09/03
1900MHz Validation Dipole	Speag	D1900V2	5d155	2024/09/02	2027/09/02
2300MHz Validation Dipole	Speag	D2300V2	1111	2024/09/03	2027/09/03
2600MHz Validation Dipole	Speag	D2600V2	1184	2024/08/30	2027/08/30
3500MHz Validation Dipole	Speag	D3500V2	1115	2024/09/03	2027/09/03
3700MHz Validation Dipole	Speag	D3700V2	1086	2024/09/05	2027/09/05
3900MHz Validation Dipole	Speag	D3900V2	1059	2024/08/30	2027/08/30
Data Acquisition Electronics	Speag	DAE4	SN: 1423	2025/06/05	2026/06/04
E-Field Probe	Speag	EX3DV4	SN: 3974	2025/06/05	2026/06/04
Signal Generator	R&S	SMB100A	182635	2025/02/12	2026/02/12
Power Meter	Agilent	E4419B	MY45104512	2025/02/11	2026/02/11
Power Sensor	Agilent	E9304A	MY41499059	2025/02/11	2026/02/11
Power Sensor	Agilent	E9304A	MY41499060	2025/02/11	2026/02/11
Wireless Communication Test Set	R&S	CMW500	168792	2025/02/11	2026/02/11
Wireless Communication Test Set	Anritsu	MT8820C	6201061029	2025/02/12	2026/02/12
Network Analyzer	Agilent	E5071C	MY56301409	2025/02/12	2026/02/12
Thermometer	CEM	DT-322	210402350	2025/01/22	2026/01/22
Thermometer	Elitech	RC-4HC	EF7247001275	2025/01/22	2026/01/22
Power Amplifier	COM-MW	PAO.4	201704001	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	/	N/A	N/A
Phantom	Speag	SAM	SN: 1473	N/A	N/A
Attenuator	COM-MW	/	/	N/A	N/A

Note: For dipole antennas, Tejet has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

This is test equipment list Shenzhen BALUN Technology Co., Ltd.

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY8	16.2.2.1588	N/A	N/A
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2024/05/09	2027/05/08
6.5GHz Validation Dipole	Speag	D6.5GHzV2	SN: 1037	2024/05/28	2027/05/27
Data Acquisition Electronics	Speag	DAE4	SN: 1710	2025/01/20	2026/01/19
Data Acquisition Electronics	Speag	DAE4	SN: 878	2025/03/05	2026/03/04
E-Field Probe	Speag	EX3DV4	SN: 7607	2025/08/06	2026/08/05
E-Field Probe	Speag	EX3DV4	SN: 7664	2025/06/30	2026/06/29
Signal Generator	Keysight	N5173B	MY62150163	2025/07/15	2026/07/14
Power Meter	R&S	NRVD-B2	835843/014	2025/07/15	2026/07/14
Power Sensor	R&S	NRV-Z4	100381	2025/07/15	2026/07/14
Power Sensor	R&S	NRV-Z2	100211	2025/07/15	2026/07/14
Network Analyzer	Agilent	E5071C	MY46103472	2025/08/13	2026/08/12
Thermometer	Elitech	RC-4HC	EF720B004813	2025/10/30	2026/10/29
Thermometer	Elitech	RC-4HC	EF720B004817	2025/10/30	2026/10/29
Thermometer	Elitech	RC-4HC	EF7239002655	2025/10/29	2026/10/28
Thermometer	Elitech	RC-4HC	EF7216002974	2025/10/30	2026/10/29
Power Amplifier	Mini-Circuits	ZVA-183W-S+	932502132	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	SAM	SN: 2090	N/A	N/A
Phantom	Speag	SAM	SN: 1859	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an 85070E and DAK3.5 Dielectric Probe Kit.

Head Liquid

Date	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity(σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2025.12.16	750	21.3	0.92	41.21	0.89	41.94	3.37	-1.74
2025.12.16	707.5	21.3	0.88	41.29	0.89	42.16	-1.12	-2.06
2025.12.16	704	21.3	0.88	41.29	0.89	42.18	-1.12	-2.11
2025.12.16	709	21.3	0.88	41.28	0.89	42.15	-1.12	-2.06
2025.12.16	710	21.3	0.88	41.25	0.89	42.15	-1.12	-2.14
2025.12.16	711	21.3	0.88	41.23	0.89	42.14	-1.12	-2.16
2025.12.16	782	21.3	0.93	40.96	0.90	41.77	3.33	-1.94
2025.12.16	793	21.3	0.93	40.86	0.90	41.72	3.33	-2.06
2025.12.17	750	21.3	0.91	41.51	0.89	41.94	2.25	-1.03
2025.12.17	683	21.3	0.86	41.68	0.89	42.27	-3.37	-1.40
2025.12.17	673	21.3	0.85	41.71	0.89	42.22	-4.49	-1.21
2025.12.17	688	21.3	0.86	41.64	0.89	42.22	-3.37	-1.37
2025.12.17	706.5	21.3	0.88	41.63	0.89	42.14	-1.12	-1.21
2025.12.17	707.5	21.3	0.88	41.62	0.89	42.11	-1.12	-1.16
2025.12.17	708.5	21.3	0.88	41.61	0.89	42.11	-1.12	-1.19
2025.12.17	782	21.3	0.92	41.47	0.90	41.77	2.22	-0.72
2025.12.17	793	21.3	0.93	41.38	0.90	41.72	3.33	-0.82
2025.12.18	750	21.6	0.87	42.78	0.89	41.94	-2.25	2.00
2025.12.18	680.5	21.6	0.87	43.08	0.89	42.27	-2.25	1.92
2025.12.18	673.5	21.6	0.86	43.18	0.89	42.33	-3.37	2.01
2025.12.18	688	21.6	0.87	42.92	0.89	42.22	-2.25	1.66
2025.12.19	835	21.2	0.90	41.20	0.90	41.50	0.00	-0.72
2025.12.19	829	21.6	0.90	41.29	0.90	41.53	0.00	-0.58
2025.12.19	844	21.2	0.91	41.18	0.91	41.50	0.00	-0.77
2025.12.19	821.5	21.6	0.89	41.29	0.90	41.57	-1.11	-0.67
2025.12.19	831.5	21.6	0.90	41.26	0.90	41.52	0.00	-0.63
2025.12.19	841.5	21.2	0.91	41.20	0.91	41.50	0.00	-0.72
2025.12.19	834	21.6	0.90	41.24	0.90	41.51	0.00	-0.65
2025.12.19	839	21.2	0.91	41.20	0.90	41.50	1.11	-0.72
2025.12.19	836.5	21.2	0.91	41.20	0.90	41.50	1.11	-0.72
2025.12.20	835	21.3	0.92	40.92	0.90	41.50	2.22	-1.40
2025.12.20	839	21.3	0.92	40.92	0.90	41.50	2.22	-1.40
2025.12.20	831.5	21.3	0.91	40.93	0.91	41.50	0.00	-1.37

Date	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity(σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2025.12.20	824	21.3	0.91	40.93	0.90	41.56	1.11	-1.52
2025.12.21	1750	21.3	1.32	39.83	1.37	40.08	-3.65	-0.62
2025.12.21	1720	21.3	1.32	39.94	1.35	40.13	-2.22	-0.47
2025.12.21	1732.5	21.3	1.32	39.92	1.36	40.11	-2.94	-0.47
2025.12.21	1730	21.3	1.32	39.96	1.36	40.11	-2.94	-0.37
2025.12.21	1745	21.3	1.32	39.88	1.37	40.09	-3.65	-0.52
2025.12.21	1760	21.3	1.33	39.71	1.38	40.06	-3.62	-0.87
2025.12.21	1770	21.3	1.34	39.59	1.38	40.05	-2.90	-1.15
2025.12.23	1900	21.7	1.42	39.25	1.40	40.00	1.43	-1.88
2025.12.23	1860	21.7	1.37	39.57	1.40	40.00	-2.14	-1.08
2025.12.23	1880	21.7	1.38	39.43	1.40	40.00	-1.43	-1.43
2025.12.23	1900	21.7	1.42	39.25	1.40	40.00	1.43	-1.88
2025.12.23	1882.5	21.7	1.39	39.42	1.40	40.00	-0.71	-1.45
2025.12.23	1905	21.7	1.42	39.16	1.40	40.00	1.43	-2.10
2025.12.24	1900	21.3	1.43	38.25	1.40	40.00	2.14	-4.38
2025.12.24	1870	21.3	1.39	38.44	1.40	40.00	-0.71	-3.90
2025.12.24	1882.5	21.3	1.40	38.30	1.40	40.00	0.00	-4.25
2025.12.24	1895	21.3	1.40	38.27	1.40	40.00	0.00	-4.33
2025.12.24	2300	21.3	1.71	38.94	1.67	39.47	2.40	-1.34
2025.12.24	2310	21.3	1.72	38.88	1.68	39.45	2.38	-1.44
2025.12.25	2600	21.3	1.93	38.24	1.96	39.01	-1.53	-1.97
2025.12.25	2510	21.3	1.85	38.39	1.87	39.13	-1.07	-1.89
2025.12.25	2535	21.3	1.85	38.34	1.89	39.09	-2.12	-1.92
2025.12.25	2560	21.3	1.92	38.25	1.92	39.06	0.00	-2.07
2025.12.25	2580	21.3	1.92	38.25	1.94	39.03	-1.03	-2.00
2025.12.25	2595	21.3	1.92	38.24	1.96	39.02	-2.04	-2.00
2025.12.25	2610	21.3	1.93	38.18	1.97	39.00	-2.03	-2.10
2025.12.26	2600	21.6	1.96	37.87	1.96	39.01	0.00	-2.92
2025.12.26	2506	21.6	1.89	38.02	1.86	39.13	1.61	-2.84
2025.12.26	2520	21.6	1.90	37.98	1.88	39.11	1.06	-2.89
2025.12.26	2593	21.6	1.96	37.90	1.96	39.02	0.00	-2.87
2025.12.26	2550	21.6	1.92	37.88	1.91	39.07	0.52	-3.05
2025.12.26	2535	21.6	1.91	37.91	1.89	39.09	1.06	-3.02
2025.12.26	2680	21.6	1.97	37.76	2.05	38.91	-3.90	-2.96
2025.12.26	2549.5	21.6	1.91	37.88	1.91	39.07	0.00	-3.05
2025.12.26	2636.5	21.6	1.97	37.84	2.00	38.97	-1.50	-2.90
2025.12.27	2600	21.2	1.97	37.57	1.96	39.01	0.51	-3.69
2025.12.27	2599.98	21.2	1.97	37.60	1.96	39.01	0.51	-3.61
2025.12.27	2595	21.2	1.97	37.65	1.96	39.02	0.51	-3.51

Date	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity(σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2025.12.27	2590.02	21.2	1.97	37.70	1.95	39.01	1.03	-3.36
2025.12.28	2600	21.3	1.99	38.73	1.96	39.01	1.53	-0.72
2025.12.28	2640	21.3	2.02	38.48	2.01	38.96	0.50	-1.23
2025.12.28	2592.99	21.3	1.98	38.88	1.95	39.01	1.54	-0.33
2025.12.28	2546.01	21.3	1.98	38.98	1.90	39.08	4.21	-0.26
2025.12.29	3500	21.2	2.81	36.83	2.91	37.93	-3.44	-2.90
2025.12.29	3590	21.2	2.89	36.73	3.00	37.82	-3.67	-2.88
2025.12.29	3525	21.2	2.81	36.79	2.94	37.90	-4.42	-2.93
2025.12.29	3460	21.2	2.80	36.94	2.87	37.98	-2.44	-2.74
2025.12.29	3492.5	21.2	2.80	36.86	2.90	37.91	-3.45	-2.77
2025.12.29	3557.5	21.2	2.81	36.82	2.93	37.85	-4.10	-2.72
2025.12.30	3500	21.8	2.90	37.71	2.91	37.93	-0.34	-0.58
2025.12.30	3500.01	21.8	2.90	37.71	2.91	37.90	-0.34	-0.50
2025.12.30	3600	21.8	3.00	37.52	3.02	37.81	-0.66	-0.77
2025.12.30	3549.99	21.8	2.90	37.67	2.96	37.85	-2.03	-0.48
2025.12.31	3500	21.2	2.95	37.03	2.91	37.93	1.37	-2.37
2025.12.31	3500.01	21.2	2.96	37.03	2.91	37.90	1.72	-2.30
2025.12.31	3600	21.2	3.05	36.85	3.02	37.81	0.99	-2.54
2025.12.31	3549.99	21.2	2.96	36.99	2.96	37.85	0.00	-2.27
2026.1.1	3700	21.2	3.02	36.75	3.12	37.70	-3.21	-2.52
2026.1.1	3610	21.2	2.97	36.85	3.03	37.80	-1.98	-2.51
2026.1.1	3700	21.2	3.02	36.75	3.12	37.70	-3.21	-2.52
2026.1.1	3655	21.2	3.00	36.85	3.07	37.75	-2.28	-2.38
2026.1.1	3745	21.2	3.05	36.74	3.16	37.65	-3.48	-2.42
2026.1.1	3790	21.2	3.10	36.54	3.21	37.60	-3.43	-2.82
2026.1.2	3700	21.5	3.07	36.62	3.12	37.70	-1.60	-2.86
2026.1.2	3641	21.5	2.97	36.77	3.06	37.77	-2.94	-2.65
2026.1.2	3690	21.5	3.07	36.65	3.11	37.71	-1.29	-2.81
2026.1.2	3560	21.5	2.94	36.89	2.97	37.86	-1.01	-2.56
2026.1.2	3609	21.5	2.96	36.79	3.02	37.80	-1.99	-2.67
2026.1.2	3625	21.5	2.97	36.78	3.04	37.79	-2.30	-2.67
2026.1.3	3700	21.4	3.10	37.35	3.12	37.70	-0.64	-0.93
2026.1.3	3679.98	21.4	3.07	37.39	3.10	37.72	-0.97	-0.87
2026.1.3	3624.99	21.4	3.09	37.48	3.03	37.78	1.98	-0.79
2026.1.3	3570	21.4	3.04	37.58	2.98	37.85	2.01	-0.71
2026.1.4	3700	21.8	3.09	37.18	3.12	37.70	-0.96	-1.38
2026.1.4	3750	21.8	3.17	36.06	3.17	37.64	0.00	-4.20
2026.1.4	3840	21.8	3.17	35.98	3.26	37.54	-2.76	-4.16
2026.1.4	3930	21.8	3.19	35.64	3.35	37.43	-4.78	-4.78

Date	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity(σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2026.1.5	3700	21.4	3.26	36.40	3.12	37.70	4.49	-3.45
2026.1.5	3750	21.4	3.27	36.23	3.17	37.64	3.15	-3.75

Date	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity(σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2025.12.29	2402	21.2	1.76	39.09	1.76	39.29	0.00	-0.51
2025.12.29	2412	21.2	1.77	38.93	1.77	39.27	0.00	-0.87
2025.12.29	2422	21.2	1.78	38.74	1.78	39.25	0.00	-1.30
2025.12.29	2441	21.2	1.80	38.47	1.79	39.22	0.56	-1.91
2025.12.29	2462	21.2	1.83	38.09	1.81	39.19	1.11	-2.81
2025.12.29	2480	21.2	1.86	37.86	1.83	39.16	1.64	-3.32
2025.12.30	2402	21.3	1.75	40.31	1.76	39.29	-0.57	2.60
2025.12.30	2412	21.3	1.77	40.11	1.77	39.27	0.00	2.14
2025.12.30	2422	21.3	1.78	40.03	1.78	39.25	0.00	1.99
2025.12.30	2441	21.3	1.80	39.67	1.79	39.22	0.56	1.15
2025.12.29	2452	21.2	1.82	38.16	1.80	39.20	1.11	-2.65
2025.12.30	2462	21.3	1.83	39.15	1.81	39.19	1.11	-0.10
2025.12.30	2480	21.3	1.85	39.00	1.83	39.16	1.09	-0.41
2025.12.31	5210	21.1	4.69	36.23	4.67	35.98	0.43	0.69
2025.12.31	5250	21.1	4.75	36.09	4.71	35.93	0.85	0.45
2026.01.01	5250	21.4	4.81	35.38	4.71	35.93	2.12	-1.53
2026.01.01	5290	21.4	4.87	34.89	4.75	35.88	2.53	-2.76
2026.01.02	5530	21.4	5.09	36.77	4.99	35.61	2.00	3.26
2026.01.02	5600	21.4	5.18	36.07	5.07	35.53	2.17	1.52
2026.01.03	5745	21.6	5.29	36.25	5.21	35.37	1.54	2.49
2026.01.03	5750	21.6	5.30	36.18	5.22	35.36	1.53	2.32
2026.01.03	5775	21.6	5.34	36.07	5.24	35.33	1.91	2.09
2026.01.03	5785	21.6	5.36	35.96	5.25	35.32	2.10	1.81
2025.12.30	6025	21.6	5.49	35.88	5.51	35.04	-0.36	2.40
2025.12.30	6185	21.6	5.60	35.13	5.60	34.85	0.00	0.80
2025.12.30	6345	21.6	5.91	34.60	5.88	34.65	0.51	-0.14
2025.12.30	6505	21.6	6.13	33.91	6.08	34.45	0.82	-1.57
2025.12.30	6665	21.6	6.35	33.27	6.27	34.27	1.28	-2.92
2025.12.30	6825	21.6	6.57	32.77	6.45	34.08	1.86	-3.84
2025.12.30	6985	21.6	6.78	32.28	6.63	33.90	2.26	-4.78

Date	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity(σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2025.12.31	6025	21.4	5.58	36.13	5.51	35.04	1.27	3.11
2025.12.31	6185	21.4	5.69	35.44	5.60	34.85	1.61	1.69
2025.12.31	6345	21.4	6.00	34.84	5.88	34.65	2.04	0.55
2025.12.31	6665	21.4	6.44	33.53	6.27	34.27	2.71	-2.16
2025.12.31	6825	21.4	6.66	32.93	6.45	34.08	3.26	-3.37
2025.12.31	6985	21.4	6.87	32.24	6.63	33.90	3.62	-4.90
2026.01.01	6025	21.5	5.39	36.13	5.51	35.04	-2.18	3.11
2026.01.01	6185	21.5	5.50	35.44	5.60	34.85	-1.79	1.69
2026.01.01	6345	21.5	5.79	34.84	5.88	34.65	-1.53	0.55
2025.12.31	6505	21.4	6.23	34.11	6.08	34.45	2.47	-0.99
2026.01.01	6985	21.5	6.65	32.40	6.63	33.90	0.30	-4.42

Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by Speag, the validation data should be within its specification of 10 % (for 1 g).

Head liquid 1g

Date	Freq. (MHz)	Power (mW)	1g Meas. SAR (W/kg)	1g Normalized SAR (W/kg)	1g Dipole SAR (W/kg)	1g Dipole. SAR Div. (%)
2025.12.16	750	100	0.862	8.62	8.46	1.89
2025.12.17	750	100	0.898	8.98	8.46	6.15
2025.12.18	750	100	0.835	8.35	8.46	-1.30
2025.12.19	835	100	0.919	9.19	9.59	-4.17
2025.12.20	835	100	0.971	9.71	9.59	1.25
2025.12.21	1750	100	3.390	33.90	36.50	-7.12
2025.12.23	1900	100	3.980	39.80	39.90	-0.25
2025.12.24	2300	100	4.780	47.80	49.10	-2.65
2025.12.25	2600	100	5.260	52.60	55.30	-4.88
2025.12.26	2600	100	5.520	55.20	55.30	-0.18
2025.12.27	2600	100	5.780	57.80	55.30	4.52
2025.12.28	2600	100	5.720	57.20	55.30	3.44
2025.12.29	3500	100	6.310	63.10	67.20	-6.10
2025.12.30	3500	100	6.680	66.80	67.20	-0.60
2025.12.31	3500	100	6.330	63.30	67.20	-5.80
2026.1.1	3700	100	6.620	66.20	66.70	-0.75
2026.1.2	3700	100	6.590	65.90	66.70	-1.20
2026.1.3	3700	100	6.380	63.80	66.70	-4.35
2026.1.4	3700	100	6.610	66.10	66.70	-0.90
2026.1.5	3900	100	6.470	64.70	67.40	-4.01
2025.12.29	2450	100	5.540	55.40	52.60	5.32
2025.12.30	2450	100	5.580	55.80	52.60	6.08
2025.12.31	5250	100	7.670	76.70	77.70	-1.29
2026.01.01	5250	100	7.650	76.50	77.70	-1.54
2026.01.02	5600	100	7.880	78.80	81.30	-3.08
2026.01.03	5750	100	7.710	77.10	77.60	-0.64
2025.12.30	6500	100	29.100	291.00	299.00	-2.68
2025.12.31	6500	100	31.400	314.00	299.00	5.02
2026.01.01	6500	100	30.400	304.00	299.00	1.67

Note: The tolerance limit of System validation $\pm 10\%$.

Please refer the document "BL-SH2580981-ASC.pdf"

ANNEX C TEST DATA

Please refer the document “BL-SH2580981-ATD.pdf”.

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2580981-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SH2580981-AS.pdf” and “BL-SH2580981-AS-1.pdf”

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SH2580981-AC.pdf”, “BL-SH2580981-AC-1.pdf”

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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--END OF REPORT--