

FCC SAR TEST REPORT

FCC ID : IHDT56AX5
Equipment : Mobile Cellular Phone
Brand Name : Motorola
Model Name : XT2651V
Applicant : Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA
Manufacturer : Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Jun. 17, 2025 and testing was started from Jun. 18, 2026 and completed on Jul. 13, 2026. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA660814	01	Initial issue of report	Aug. 05, 2026
FA660814	02	1. Updated section 3.3 and section 18; 2. Updated Appendix H. This report is an updated version, replacing the report issued on Aug. 05, 2026.	Aug. 06, 2026

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for **Motorola Mobility LLC, Mobile Cellular Phone, XT2651V**, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary					Highest Simultaneous Transmission 1g SAR (W/kg)	Highest Simultaneous Transmission 10g SAR (W/kg)
		Head (Separation: 0 mm)	Hotspot (Separation: 5 mm)	Body Open (Tablet) (Separation: 0mm)	Body worn (Separation: 5 mm)	Extremity Close (Separation: 0 mm)		
		1g SAR (W/kg)				10g SAR (W/kg)		
Licensed	GSM850	0.23	0.93	1.23	0.93		1.59	3.55
	GSM1900	1.05	1.31	1.27	1.29	1.57		
	WCDMA II	1.28	1.17	1.20	1.06	2.66		
	WCDMA IV	1.27	1.25	1.27	1.27	3.06		
	WCDMA V	0.31	1.25	1.23	1.25	1.35		
	LTE Band 7	1.29	1.28	1.29	1.27	3.16		
	LTE Band 12	0.17	1.17	1.29	0.95			
	LTE Band 13	0.16	0.89	1.28	0.81			
	LTE Band 14	0.15	1.03	1.29	1.03			
	LTE Band 25/2	1.07	1.29	1.30	1.28	3.28		
	LTE Band 26	0.20	1.24	1.29	1.24	1.64		
	LTE Band 66/4	1.27	1.44	1.31	1.30	3.17		
	LTE Band 71	0.17	1.07	1.27	0.74			
	LTE Band 41/38	1.00	1.35	1.30	1.29	3.20		
	LTE Band 42	0.69	1.09	1.30	1.30	3.20		
	LTE Band 48/43	0.59	1.29	1.38	1.30	3.23		
	FR1 n7	1.09	1.30	1.30	1.30	3.17		
	FR1 n12	0.18	0.90	1.29	0.60			
	FR1 n13	0.11	0.46	1.28	0.70			
	FR1 n14	0.20	0.77	1.28	0.77			
	FR1 n25/2	1.20	1.29	1.31	1.27	3.19		
	FR1 n26	0.22	0.89	1.29	0.89			
	FR1 n66	1.28	1.28	1.28	1.28	3.21		
	FR1 n71	0.17	0.78	1.28	0.53			
	FR1 n41/38	1.02	1.28	1.29	1.38	3.14		
FR1 n48	1.08	1.27	1.29	1.32	3.18			
FR1 n77/78	1.33	1.28	1.26	1.29	3.18			
DTS	2.4GHz WLAN	0.93	0.86	1.34	0.82	1.98	1.59	3.55
NII	5GHz WLAN	0.49	1.00	0.99	1.09	2.41	1.59	3.55
6XD	6GHz WLAN	0.21		0.75	0.63	0.22	1.59	3.55
DSS	Bluetooth	0.25	0.25	1.28	0.25		1.59	3.55
DXX	NFC			<0.10		<0.10	1.47	3.55
Highest Total Exposure Ratio		Ratio ≤ 1.0						
		1.00				0.89		
Equipment Class	Frequency Band	Measured APD				Reported PD		
		Head (W/m^2)	Body Worn (W/m^2)	Body (W/m^2)	Phablet (W/m^2)	psPD (W/m^2)		
6XD	6GHz WLAN	0.74	2.23	2.41	3.34	6.95		
Date of Testing:		2026/06/18 ~ 2026/07/13						

Remark:

1. This device supports LTE B2 / B4 / B5 / B17 / B38 / B42 (3550 MHz ~ 3600MHz)&B43 and B25 / B66 / B26 / B12 / B41 / B48. Since the supported frequency span for LTE B2 / B4 / B5 / B17 / B38 / B42 (3550 MHz ~ 3600MHz)&B43 falls completely within the support's frequency span for LTE B25 / B66 / B26 / B12 / B41 / B48, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25 / B66 / B26 / B12 / B41 / B48.
2. This device supports 5GNR n38/n5/n78/n2 and n41/n26/n77/n25. Since the supported frequency span for 5GNR n38/n5/n78/n2 falls completely within the support's frequency span for n41/n26/n77/n25, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n41/n26/n77/n25.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: Jason Wang

Report Producer: Carlie Tsai



2. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- IEC/IEEE 62209-1528:2020
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- IEC TR 63170:2018
- IEC 62479:2010
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)
- FCC KDB 484596 D01 Referencing Test Data v03

3. Data Reuse Approach

3.1 Introduction Section

This application re-uses data collected on a similar device, FCC ID: IHDT56AW3 (reference model) and FCC ID: IHDT56AX5 (variant model). Due to the same design are identical between parent model and variant model, SAR data reuse is requested and spot check data in this report is used to justify the SAR data reuse.

Per KDB 484596 D01 v03 Section 3.2.2, variants and parent models always satisfy Eq.(6), and the WWAN/WLAN max SAR summary always selects the higher SAR between the parent and variant models.

The applicant should take full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AX5.

3.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AW3 and FCC ID: IHDT56AX5 is as below:

- Removed LTE Band B30 and 5G NR n30/n70.
- Added 5G NR n260/n261

ther differences and all the details of similarity and difference can be found in the confidential documents (XT2651V_Operational Description of Product Equality Declaration).



3.3 Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	FCC ID (Reference)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Test on the variant
Part 2.1093	PCE	GSM	GSM850(except ANT0) /GSM1900				IHDT56AX5	Full Test
		WCDMA	B2/4 /B5(except ANT0)				IHDT56AX5	Full Test
		LTE	B48/43/38/41 Ant2 B66/25/2 Ant0	IHDT56AW3	Original Grant	FA5N1310	IHDT56AX5	Spot check
		LTE	B2/4/5/7/12/13/14/17/ 25/26/38/41/42/43/66/71/48 (except ANT0/2)				IHDT56AX5	Full Test
		5G NR FR1	n41/38 Ant0& n77/78 Ant2	IHDT56AW3	Original Grant	FA5N1310	IHDT56AX5	Spot check
		5G NR FR1	n2/5/7/12/13/14/25/26/38 /41/66/48/71/77/78 (except ANT0/2)				IHDT56AX5	Full Test
	DTS	BLE/ WiFi	2400~2483.5				IHDT56AX5	Full Test
	NII	Wi-Fi	5150 ~ 5250 5250 ~ 5350 5470 ~ 5725 5725 ~ 5850				IHDT56AX5	Full Test
			5925 ~ 6425 6425 ~ 6525 6525 ~ 6875 6875 ~ 7125				IHDT56AX5	Full Test
	DSS	Bluetooth	2400~2483.5				IHDT56AX5	Full Test
	DXX	NFC	13.56				IHDT56AX5	Full Test
	DCD	WPT	0.110 ~ 0.145				IHDT56AX5	Full Test



4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2651V
FCC ID	IHDT56AX5
IMEI Code	352595240017593/352595240017601, 352595240017379/352595240017387, 352595240017270/352595240017288
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3700 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14: 788 MHz ~ 798 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz 5G NR n260: 37 GHz~40 GHz 5G NR n261: 27.5 GHz~28.35 GHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz WLAN 6GHz U-NII 5: 5925 MHz ~ 6425 MHz WLAN 6GHz U-NII 6: 6425 MHz ~ 6525 MHz WLAN 6GHz U-NII 7: 6525 MHz ~ 6875 MHz WLAN 6GHz U-NII 8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz WPT: 110 KHz ~ 145 KHz UWB: 6489.6 MHz & 7987.2 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA/HSUPA DC-HSDPA HSPA+ (16QAM uplink is not supported) LTE: QPSK, 16QAM, 64QAM, 256QAM

	5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax/be HE20/HE40/EHT20/EHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 5GHz 802.11be EHT20/EHT40/EHT80/EHT160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11be EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE / CS GFSK/ CS ASK NFC: ASK WPT: ASK UWB: BPM-BPSK
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark: 1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5G NR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. 2. This device WLAN 2.4GHz support hotspot operation and Bluetooth support tethering applications. 3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). WLAN 6GHz has no hotspot function. 4. This device supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). 5. This device does not support DTM operation and support GRPS/EGPRS mode up to multi-slot class 12. 6. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO/MIMO mode. 7. Bluetooth and Bluetooth LE modes support TX beamforming mode, while Bluetooth LE Channel Sounding mode supports only SISO mode. 8. The device implements the power management, Hall sensor and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E. 9. This device implements antenna tuning techniques for several WWAN (cellular) operating modes and frequencies for the purpose of improving antenna efficiency over a broad range of frequencies. Specifically, these techniques are employed in the LTE and 5G NR modes. In this report SAR was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing. The detail descriptions of the antenna tuner and supplemental data for additional information on section 18 and appendix H. 10. This device supports HPUE mode for LTE Band 41 and 5G NR n41/n77/n78 with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so power class 3 was chosen to perform full SAR testing and power class 2 verified the worst case of power class 3 SAR. 11. For 5G NR n41/n77/n78 HPUE, 5G NR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing. 12. The UWB output power is -9.1 dBm and it is less than 1mW and exempt from power density testing. 13. 5G NR n2/n7/n25/n41/n48/n66/n77/n78 supports UL MIMO mode. 14. The device supports HPUE (power class 2) under SISO mode and HPUE (power class 1.5) under UL MIMO mode for 5G NR n41/n78/n77. 15. The RF exposure report for WPC (Wireless Power Charging) will be submitted separately. 16. The power density test report for 5G NR FR2 will be submitted separately. 17. This device supports 5G NR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.	

**<5G NR>**

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n2	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 50
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n26	FDD	15	5, 10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 45
	n71	FDD	15	5, 10, 15, 20, 25, 30, 35
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 15, 20, 30, 40
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
SA	n2	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 50
	n12	FDD	15	5, 10, 15
	n13	FDD	15	5, 10
	n14	FDD	15	5, 10
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n26	FDD	15	5, 10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 45
	n71	FDD	15	5, 10, 15, 20, 25, 30, 35
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 15, 20, 30, 40
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100



4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																										
FCC ID		IHDT56AX5																																																																								
Equipment Name		Mobile Cellular Phone																																																																								
Operating Frequency Range of each LTE transmission band		LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3700 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																																								
Channel Bandwidth		LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 43: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																																								
uplink modulations used		QPSK / 16QAM / 64QAM / 256QAM																																																																								
LTE Voice / Data requirements		Voice and Data																																																																								
LTE Release Version		R18																																																																								
CA Support		Supported, Uplink and Downlink																																																																								
LTE MPR permanently built-in by design		<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>			Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3																																																																										
Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)																																																																			
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																																				
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																																			
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																			
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																																			
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																																			
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																																			
256 QAM	≥ 1						≤ 5																																																																			
LTE A-MPR		In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																																								
Spectrum plots for RB configuration		A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																								
Power reduction applied to satisfy SAR compliance		Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body -worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 14.																																																																								
LTE Carrier Aggregation Combinations		Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 14.																																																																								
LTE Carrier Aggregation Additional Information		1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance.																																																																								

2. This device supports maximum of 2 carriers in the uplink.

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)					
L	23205		779.5		23230		782					
M	23230		782									
H	23255		784.5									
LTE Band 14												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Channel #		Channel #		Freq.(MHz)					
L	23305		790.5		23330		793					
M	23330		793									
H	23355		795.5									
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)					
L	23755		706.5		23780		709					
M	23790		710		23790		710					
H	23825		713.5		23800		711					
LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905

LTE Band 26										
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5

LTE Band 38								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580
M	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610

LTE Band 41								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5
M	40620	2593	40620	2593	40620	2593	40620	2593
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680

LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770

LTE Band 42								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	42115	3452.5	42140	3455	42165	3457.5	42190	3460
M	42590	3500	42590	3500	42590	3500	42590	3500
H	43065	3547.5	43040	3545	43015	3542.5	42990	3540

LTE Band 42								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	43115	3552.5	43140	3555	43165	3557.5	43190	3560
M	43340	3575	43340	3575	43340	3575	43340	3575
H	43565	3597.5	43540	3595	43515	3592.5	43490	3590

LTE Band 43								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	43615	3602.5	43640	3605	43665	3607.5	43690	3610
M	44090	3650	44090	3650	44090	3650	44090	3650
H	44565	3697.5	44540	3695	44515	3692.5	44490	3690

LTE Band 48								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560
LM	55810	3607	55815	3607.5	55820	3608	55830	3609
MH	56170	3643	56165	3642.5	56160	3642	56150	3641
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690

LTE Band 71								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133147	665.5	133172	668	133197	670.5	133222	673
M	133247	675.5	133272	678	133297	680.5	133322	683
H	133447	695.5	133422	693	133397	690.5	133372	688

<For LTE Overlap Bands Description>

1) LTE Bands BW

Band	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
LTE Band 12	Yes	Yes	Yes	Yes		
LTE Band 17			Yes	Yes		
LTE Band 2	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 25	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 5	Yes	Yes	Yes	Yes		
LTE Band 26	Yes	Yes	Yes	Yes	Yes	
LTE Band 4	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 66	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 38			Yes	Yes	Yes	Yes
LTE Band 41			Yes	Yes	Yes	Yes
LTE Band 42			Yes	Yes	Yes	Yes
LTE Band 43			Yes	Yes	Yes	Yes
LTE Band 48			Yes	Yes	Yes	Yes

2) LTE Bands tune up:

Band	Antenna	Head DSI2	Body worn DSI3	Hotspot DSI7	Extremity DSI6	Body DSI12	Sensor off DSI4	Default Tune-up Limit
LTE Band 12(17)	Ant 0	24.0	24.0	24.0	24.0	20.3	24.0	24.0
LTE Band 12(17)	Ant 1	24.0	21.7	21.7	21.7	21.7	21.7	24.0
LTE Band 25(2)	Ant 3	22.0	19.8	19.4	24.0	16.3	24.0	24.0
LTE Band 25(2)	Ant 2	24.0	20.8	20.1	22.8	15.9	24.0	24.0
LTE Band 25(2)	Ant 4	23.0	23.0	23.0	23.0	16.7	23.0	23.0
LTE Band 25(2)	Ant 0	23.0	22.7	21.8	22.9	17.5	23.0	23.0
LTE Band 26(5)	Ant 0	24.0	24.0	24.0	24.0	21.6	24.0	24.0
LTE Band 26(5)	Ant 1	24.0	21.4	21.4	21.4	21.4	21.4	24.0
LTE Band 66(4)	Ant 3	21.5	19.1	19.1	22.6	15.9	24.0	24.0
LTE Band 66(4)	Ant 2	24.0	21.0	19.7	22.8	15.6	24.0	24.0
LTE Band 66(4)	Ant 4	23.0	22.8	22.8	23.0	16.5	23.0	23.0
LTE Band 66(4)	Ant 0	23.0	20.8	19.6	23.0	18.1	23.0	23.0
LTE Band 41(38) PC3	Ant 3	18.6	20.3	18.6	23.7	15.3	24.0	24.0
LTE Band 41 PC2	Ant 3	20.2	21.9	20.2	25.3	16.9	27.0	27.0
LTE Band 41(38) PC3	Ant 2	24.0	22.4	22.0	24.0	15.7	24.0	24.0
LTE Band 41 PC2	Ant 2	27.0	24.0	23.6	25.6	17.3	27.0	27.0
LTE Band 41(38) PC3	Ant 4	23.0	21.5	21.5	23.0	16.1	23.0	23.0
LTE Band 41 PC2	Ant 4	26.0	23.1	23.1	25.4	17.7	26.0	26.0
LTE Band 41(38) PC3	Ant 0	24.0	23.9	23.6	24.0	16.2	24.0	24.0
LTE Band 41 PC2	Ant 0	27.0	25.5	25.2	27.0	17.8	27.0	27.0
LTE Band 42 Part 96	Ant 2	22.0	20.5	19.3	22.0	15.8	22.0	22.0
LTE Band 42 Part 96	Ant 4	24.0	24.0	24.0	24.0	17.0	24.0	24.0
LTE Band 42 Part 96	Ant 6	23.0	21.5	21.5	23.0	17.1	23.0	23.0
LTE Band 42 Part 96	Ant 8	23.0	20.9	20.7	22.7	13.2	24.0	24.0
LTE Band 43 Part 96	Ant 2	22.0	20.0	19.2	22.0	14.5	22.0	22.0
LTE Band 48_Part 96	Ant 2	22.0	20.7	20.0	22.0	15.4	22.0	22.0
LTE Band 48(43)_Part 96	Ant 4	24.0	24.0	24.0	24.0	18.7	24.0	24.0
LTE Band 48(43)_Part 96	Ant 6	23.0	21.5	21.5	23.0	17.1	23.0	23.0
LTE Band 48(43)_Part 96	Ant 8	23.0	21.1	21.1	22.9	13.2	24.0	24.0



4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
FCC ID	IHDT56AX5
Equipment Name	Mobile Cellular Phone
Operating Frequency Range of each 5G NR transmission band	5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14: 788 MHz ~ 798 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz
Channel Bandwidth	The detail please refers to section 4.1 5GNR FR1 bands table.
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B4/5/66/12/13/14/48/71/7
LTE Anchor Bands for n5	LTE B2/4/48/66/7
LTE Anchor Bands for n7	LTE B2/4/66
LTE Anchor Bands for n25	LTE B7/12/66
LTE Anchor Bands for n26	LTE B7
LTE Anchor Bands for n38	LTE B2/66
LTE Anchor Bands for n41	LTE B2/4/12/25/66/71
LTE Anchor Bands for n48	LTE B71
LTE Anchor Bands for n66	LTE B2/5/7/14/48/71/13/12
LTE Anchor Bands for n71	LTE B2/7/48/66
LTE Anchor Bands for n77	LTE B2/7/14/25/41/66/71/13/12
LTE Anchor Bands for n78	LTE B2/4/7/12/13/25/38/41/66/71

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band																
NR Band 2																
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	373500	1867.5	374000	1870
M	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895	378500	1892.5	378000	1890
NR Band 5																
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	165300	826.5	165800	829	166300	831.5	166800	834	167300	836.5	167800	839	168300	841.5	168800	844
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839	167300	836.5	166800	834	166300	831.5	165800	829
NR Band 7																
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	503500	2517.5	504000	2520
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510500	2552.5	510000	2550



NR Band 12						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	140300	701.5	140800	704	141300	706.5
M	141500	707.5	141500	707.5	141500	707.5
H	142700	713.5	142200	711	141700	708.5

NR Band 13				
	Bandwidth 5MHz		Bandwidth 10MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	155900	779.5	156400	782
M	156400	782		
H	156900	784.5		

NR Band 14				
	Bandwidth 5MHz		Bandwidth 10MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	158100	790.5	158600	793
M	158600	793		
H	159100	795.5		

NR Band 25																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	373500	1867.5	374000	1870
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895

NR Band 26								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	163300	816.5	163800	819	164300	821.5	164800	824
M	166300	831.5	166300	831.5	166300	831.5	166300	831.5
H	169300	846.5	168800	844	168300	841.5	167800	839

NR Band 66																		
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 45MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	345500	1727.5	346000	1730	346500	1732.5
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352500	1762.5	352000	1760	351500	1757.5

NR Band 71														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133100	665.5	133600	668	134100	670.5	134600	673	135100	675.5	135600	678		
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5
H	139100	695.5	138600	693	138100	690.5	137600	688	137100	685.5	136600	683		

NR Band 38												
	Bandwidth10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	515004	2575.02	515502	2577.51	516000	2580	516504	2582.52	517002	2585.01	518004	2590.02
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	522996	2614.98	522498	2612.49	522000	2610	521496	2607.48	520998	2604.99	519996	2599.98



NR Band 41

Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 45MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	500202	2501.01	500700	2503.5	501204	2506.02	501702	2508.51	502200	2511	502704	2513.52	503202	2516.01	503700	2518.5	504204	2521.02	505200	2526	500202	2501.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	535500	2677.5	534996	2674.98	534498	2672.49	534000	2670	533496	2667.48	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640

NR Band 77 SCS30KHz

Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840.00	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.50	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930

NR Band 78 SCS30KHz

Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M	650000	3750	650000	3750	650000	3750	650000	3750.00	650000	3750.00	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.5	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		

NR Band 48

	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	637000	3555	637168	3557.52	637334	3560.01	637668	3565.02	638000	3570
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99
H	646332	3694.98	646166	3692.49	646000	3690	645666	3684.99	645332	3679.98

NR Band 77 SCS30KHz

Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

NR Band 78 SCS30KHz

	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

<For NR Overlap Bands Description>
1) NR Bands BW

Band	5 MHz	10 MHz	15 MHz	20 MHz	25 MHz	30 MHz	35MHz	40 MHz	45 MHz	50 MHz	60 MHz	70 MHz	80 MHz	90 MHz	100MHz
FR1 n2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes							
FR1 n25	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes							
FR1 n5	Yes	Yes	Yes	Yes											
FR1 n26	Yes	Yes	Yes	Yes											
FR1 n38		Yes	Yes	Yes	Yes	Yes		Yes							
FR1 n41		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FR1 n77		Yes	Yes	Yes	Yes	Yes		Yes		Yes	Yes	Yes	Yes	Yes	Yes
FR1 n78		Yes	Yes	Yes	Yes	Yes		Yes		Yes	Yes	Yes	Yes	Yes	Yes

2) NR Bands Tune up:

Band	Antenna	Head DSI2	Body worn DSI3	Hotspot DSI7	Extremity DSI6	Body DSI12	Sensor off DSI4	Default Tune-up Limit
FR1 n25(2)	Ant 3	21.4	19.5	18.9	23.4	16.0	24.0	24.0
FR1 n25(2)	Ant 2	24.0	20.2	19.9	22.6	14.8	24.0	24.0
FR1 n26(5)	Ant 0	24.0	24.0	24.0	24.0	21.4	24.0	24.0
FR1 n26(5)	Ant 1	24.0	20.8	20.8	20.8	20.8	20.8	24.0
FR1 n41(38) PC3	Ant 3	16.4	18.2	16.4	21.0	13.5	23.5	24.0
FR1 n41 PC2	Ant 3	19.4	21.2	19.4	24.0	16.5	26.5	27.0
FR1 n41(38) PC3	Ant 2	24.0	19.8	20.0	21.8	12.8	24.0	24.0
FR1 n41 PC2	Ant 2	27.0	22.8	23.0	24.8	15.8	27.0	27.0
FR1 n41(38) PC3	Ant 4	23.0	21.6	21.2	21.7	16.0	23.0	23.0
FR1 n41 PC2	Ant 4	26.0	24.6	24.2	24.7	19.0	26.0	26.0
FR1 n41(38) PC3	Ant 0	24.0	24.0	22.7	24.0	20.4	24.0	24.0
FR1 n41 PC2	Ant 0	27.0	27.0	25.7	27.0	23.4	27.0	27.0
FR1 n77(78) Part 27Q PC3	Ant 2	24.0	19.5	18.4	21.9	11.4	24.0	24.0
FR1 n77(78) Part 27Q PC2	Ant 2	27.0	22.5	21.4	24.9	14.4	27.0	27.0
FR1 n77(78) Part 27O PC3	Ant 2	24.0	19.5	18.4	21.9	11.4	24.0	24.0
FR1 n77(78) Part 27O PC2	Ant 2	27.0	22.5	21.4	24.9	14.4	27.0	27.0
FR1 n77(78) Part 27Q PC3	Ant 4	24.0	19.9	19.9	24.0	14.8	24.0	24.0
FR1 n77(78) Part 27Q PC2	Ant 4	27.0	22.9	22.9	27.0	17.8	27.0	27.0
FR1 n77(78) Part 27O PC3	Ant 4	24.0	19.9	19.9	24.0	14.8	24.0	24.0
FR1 n77(78) Part 27O PC2	Ant 4	27.0	22.9	22.9	27.0	17.8	27.0	27.0
FR1 n77(78) Part 27Q PC3	Ant 6	24.0	22.4	22.4	24.0	15.0	24.0	24.0
FR1 n77(78) Part 27Q PC2	Ant 6	27.0	25.4	25.4	27.0	18.0	27.0	27.0
FR1 n77(78) Part 27O PC3	Ant 6	24.0	22.4	22.4	24.0	15.0	24.0	24.0
FR1 n77(78) Part 27O PC2	Ant 6	27.0	25.4	25.4	27.0	18.0	27.0	27.0
FR1 n77(78) Part 27Q PC3	Ant 8	21.2	18.9	18.4	19.9	11.2	24.0	24.0
FR1 n77(78) Part 27Q PC2	Ant 8	24.2	21.9	21.4	22.9	14.2	27.0	27.0
FR1 n77(78) Part 27O PC3	Ant 8	21.2	18.9	18.4	19.9	11.2	24.0	24.0
FR1 n77(78) Part 27O PC2	Ant 8	24.2	21.9	21.4	22.9	14.2	27.0	27.0

5. Smart Transmit feature for RF Exposure compliance

The Qualcomm® Smart Transmit™ Plus of Smart Transmit (GEN2) Feature operates based on pre-defined sub6 antenna groups (AG). This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature. The RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN and WLAN/BT transmitter to ensure the product in compliance with RF exposure limit over a defined time window. To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) version 24 to enable the Smart Transmit GEN2 Feature.

<Terminologies in this report>

P_{limit}	The time-averaged RF power which corresponds to SAR_design_target.
P_{max}	Maximum target power level
SAR_design_target:	The design target for SAR compliance. It should be less than regulatory SAR limit to account for all device design related uncertainty.
SAR char	P _{limit} for all the technologies/bands for all applicable DSI

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at WWAN and WLAN/BT bands. It will then be used as input for Smart Transmit to control and manage RF exposure for WWAN and WLAN/BT bands.

<SAR design target and uncertainty>

Item		Uncertainty dB (k=2)
Total uncertainty	WWAN	1.5
	WLAN/BT	2.0

To account for total uncertainty, SAR_design_target should be determined as:

$$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

Antenna Group:

Antenna Group 0 (AG0)	ANT1 & ANT4 & ANT3 & ANT6 & ANT7 & ANT8 & ANT11 & mmW Antenna
Antenna Group 1 (AG1)	ANT0 & ANT2 & ANT1 & mmW Antenna

Note: ANT1 and mmW Antenna serve as shared antennas (sAnt) between between AG0 and AG1.



The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Plimit EFS settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Device State Index DSI).

<Plimit for supported technologies and bands (Plimit in EFS file)>

Band	Antenna	Head DSI2	Body worn DSI3	Extremity DSI6	Hotspot DSI7	Body DSI12	Sensor off DSI4	Pmax
GSM850	Ant 0	33.8	26.2	24.7	26.2	18.4	24.0	24.7
GSM850	Ant 1	31.9	21.6	21.6	21.6	21.6	21.6	24.7
GSM1900	Ant 3	22.1	18.4	24.3	18.1	15.0	21.2	21.2
GSM1900	Ant 4	24.8	23.4	19.7	19.7	15.0	19.7	19.7
WCDMA II	Ant 3	20.7	18.2	21.5	18.2	14.6	23.0	23.0
WCDMA II	Ant 4	25.6	21.7	23.8	21.7	15.0	23.0	23.0
WCDMA IV	Ant 3	19.0	19.9	20.0	19.0	14.1	23.0	23.0
WCDMA IV	Ant 4	24.1	21.2	23.0	21.2	15.0	23.0	23.0
WCDMA V	Ant 0	31.7	23.1	26.7	23.1	21.8	23.0	23.0
WCDMA V	Ant 1	29.1	20.5	20.5	20.5	20.5	20.5	23.0
LTE Band 7	Ant 3	16.7	17.1	20.7	16.2	12.6	23.0	23.0
LTE Band 7	Ant 2	33.8	20.9	22.1	20.9	13.6	23.0	23.0
LTE Band 7	Ant 4	25.1	19.0	21.0	18.7	12.9	22.0	22.0
LTE Band 7	Ant 0	31.4	23.3	23.4	20.8	13.9	23.0	23.0
LTE Band 12(17)	Ant 0	31.9	24.3	23.0	23.4	19.3	23.0	23.0
LTE Band 12(17)	Ant 1	30.0	20.7	20.7	20.7	20.7	20.7	23.0
LTE Band 13	Ant 0	32.4	24.0	23.0	23.6	19.8	23.0	23.0
LTE Band 13	Ant 1	30.3	20.4	20.4	20.4	20.4	20.4	23.0
LTE Band 14	Ant 0	32.4	23.9	23.0	23.9	21.2	23.0	23.0
LTE Band 14	Ant 1	29.8	20.6	20.6	20.6	20.6	20.6	23.0
LTE Band 25(2)	Ant 3	21.0	18.8	23.0	18.4	15.3	23.0	23.0
LTE Band 25(2)	Ant 2	34.3	19.8	21.8	19.1	14.9	23.0	23.0
LTE Band 25(2)	Ant 4	22.9	22.0	23.6	22.0	15.7	22.0	22.0
LTE Band 25(2)	Ant 0	45.1	21.7	21.9	20.8	16.5	22.0	22.0
LTE Band 26(5)	Ant 0	31.2	23.1	25.9	23.1	20.6	23.0	23.0
LTE Band 26(5)	Ant 1	29.5	20.4	20.4	23.3	20.4	20.4	23.0
LTE Band 66(4)	Ant 3	20.5	18.1	21.6	18.1	14.9	23.0	23.0
LTE Band 66(4)	Ant 2	34.8	20.0	21.8	18.7	14.6	23.0	23.0
LTE Band 66(4)	Ant 4	23.5	21.8	23.1	21.8	15.5	22.0	22.0
LTE Band 66(4)	Ant 0	42.7	19.8	22.7	18.6	17.1	22.0	22.0
LTE Band 71	Ant 0	32.7	25.4	23.0	23.8	20.2	23.0	23.0
LTE Band 71	Ant 1	31.1	19.8	19.8	19.8	19.8	19.8	23.0
LTE Band 41(38) PC3	Ant 3	15.6	17.3	20.7	15.6	12.3	21.0	21.0
LTE Band 41 PC2	Ant 3	15.6	17.3	20.7	15.6	12.3	22.4	22.4
LTE Band 41(38) PC3	Ant 2	33.4	19.4	21.0	19.0	12.7	22.4	21.0
LTE Band 41 PC2	Ant 2	33.4	19.4	21.0	19.0	12.7	22.4	22.4
LTE Band 41(38) PC3	Ant 4	24.1	18.5	20.8	18.5	13.1	20.0	20.0
LTE Band 41 PC2	Ant 4	24.1	18.5	20.8	18.5	13.1	21.4	21.4
LTE Band 41(38) PC3	Ant 0	32.9	20.9	25.2	20.6	13.2	22.4	21.0
LTE Band 41 PC2	Ant 0	32.9	20.9	25.2	20.6	13.2	22.4	22.4
LTE Band 42 Part 27Q	Ant 2	30.5	17.5	19.0	16.3	12.8	19.0	19.0
LTE Band 42 Part 96	Ant 2	30.5	17.5	19.0	16.3	12.8	19.0	19.0
LTE Band 42 Part 27Q	Ant 4	26.0	21.5	22.1	21.5	14.0	21.0	21.0
LTE Band 42 Part 96	Ant 4	26.0	21.5	22.1	21.5	14.0	21.0	21.0
LTE Band 42 Part 27Q	Ant 6	22.8	18.5	20.3	18.5	14.1	20.0	20.0
LTE Band 42 Part 96	Ant 6	22.8	18.5	20.3	18.5	14.1	20.0	20.0
LTE Band 42 Part 27Q	Ant 8	20.0	17.9	19.7	17.7	10.2	21.0	21.0



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LTE Band 42 Part 96	Ant 8	20.0	17.9	19.7	17.7	10.2	21.0	21.0
LTE Band 43 Part 96	Ant 2	30.5	17.0	19.0	16.2	11.5	19.0	19.0
LTE Band 48_Part 96	Ant 2	30.5	17.7	19.0	17.0	12.4	19.0	19.0
LTE Band 48(43)_Part 96	Ant 4	26.0	21.5	22.1	21.5	15.7	21.0	21.0
LTE Band 48(43)_Part 96	Ant 6	22.8	18.5	20.3	18.5	14.1	20.0	20.0
LTE Band 48(43)_Part 96	Ant 8	20.0	18.1	19.9	18.1	10.2	21.0	21.0
FR1 n7	Ant 3	15.7	17.4	24.9	15.7	12.5	22.5	23.0
FR1 n7	Ant 2	34.8	18.9	21.2	18.9	13.3	23.0	23.0
FR1 n7	Ant 4	29.0	19.8	23.2	19.8	14.3	22.0	22.0
FR1 n7	Ant 0	32.4	23.3	23.7	21.1	14.9	23.0	23.0
FR1 n12	Ant 0	33.3	26.3	23.0	24.6	21.2	23.0	23.0
FR1 n12	Ant 1	31.7	19.6	19.6	19.6	19.6	19.6	23.0
FR1 n13	Ant 0	33.9	25.6	23.0	27.4	21.5	23.0	23.0
FR1 n13	Ant 1	35.4	20.8	20.8	20.8	20.8	20.8	23.0
FR1 n14	Ant 0	33.5	25.2	23.0	25.2	20.7	23.0	23.0
FR1 n14	Ant 1	31.5	20.4	20.4	20.4	20.4	20.4	23.0
FR1 n25(2)	Ant 3	20.4	18.5	22.4	17.9	15.0	23.0	23.0
FR1 n25(2)	Ant 2	36.3	19.2	21.6	18.9	13.8	23.0	23.0
FR1 n26(5)	Ant 0	32.7	24.6	23.0	24.6	20.4	23.0	23.0
FR1 n26(5)	Ant 1	31.4	19.8	19.8	19.8	19.8	19.8	23.0
FR1 n66	Ant 3	19.7	18.8	22.2	17.8	13.4	23.0	23.0
FR1 n66	Ant 2	36.1	19.9	22.2	19.1	14.1	23.0	23.0
FR1 n71	Ant 0	33.7	26.9	23.0	25.2	22.0	23.0	23.0
FR1 n71	Ant 1	32.2	20.0	20.0	20.0	20.0	20.0	23.0
FR1 n41(38) PC3	Ant 3	15.4	17.2	20.0	15.4	12.5	22.5	23.0
FR1 n41 PC2	Ant 3	15.4	17.2	20.0	15.4	12.5	22.5	23.0
FR1 n41(38) PC3	Ant 2	34.1	18.8	20.8	19.0	11.8	23.0	23.0
FR1 n41 PC2	Ant 2	34.1	18.8	20.8	19.0	11.8	23.0	23.0
FR1 n41(38) PC3	Ant 4	27.5	20.6	20.7	20.2	15.0	22.0	22.0
FR1 n41 PC2	Ant 4	27.5	20.6	20.7	20.2	15.0	22.0	22.0
FR1 n41(38) PC3	Ant 0	30.8	23.8	24.3	21.7	19.4	23.0	23.0
FR1 n41 PC2	Ant 0	30.8	23.8	24.3	21.7	19.4	23.0	23.0
FR1 n48_Part 96	Ant 2	35.3	18.5	21.5	18.4	10.1	23.0	23.0
FR1 n48_Part 96	Ant 4	27.3	20.8	22.0	20.7	13.5	23.0	23.0
FR1 n48_Part 96	Ant 6	27.4	23.0	25.7	21.7	16.5	23.0	23.0
FR1 n48_Part 96	Ant 8	21.5	17.6	19.2	17.2	9.5	23.0	23.0
FR1 n77(78) Part 27Q PC3	Ant 2	33.2	18.5	20.9	17.4	10.4	23.0	23.0
FR1 n77(78) Part 27Q PC2	Ant 2	33.2	18.5	20.9	17.4	10.4	23.0	23.0
FR1 n77(78) Part 27O PC3	Ant 2	33.2	18.5	20.9	17.4	10.4	23.0	23.0
FR1 n77(78) Part 27O PC2	Ant 2	33.2	18.5	20.9	17.4	10.4	23.0	23.0
FR1 n77(78) Part 27Q PC3	Ant 4	32.7	18.9	23.0	18.9	13.8	23.0	23.0
FR1 n77(78) Part 27Q PC2	Ant 4	32.7	18.9	23.0	18.9	13.8	23.0	23.0
FR1 n77(78) Part 27O PC3	Ant 4	32.7	18.9	23.0	18.9	13.8	23.0	23.0
FR1 n77(78) Part 27O PC2	Ant 4	32.7	18.9	23.0	18.9	13.8	23.0	23.0
FR1 n77(78) Part 27Q PC3	Ant 6	26.3	21.4	24.3	21.4	14.0	23.0	23.0
FR1 n77(78) Part 27Q PC2	Ant 6	26.3	21.4	24.3	21.4	14.0	23.0	23.0
FR1 n77(78) Part 27O PC3	Ant 6	26.3	21.4	24.3	21.4	14.0	23.0	23.0
FR1 n77(78) Part 27O PC2	Ant 6	26.3	21.4	24.3	21.4	14.0	23.0	23.0
FR1 n77(78) Part 27Q PC3	Ant 8	20.2	17.9	18.9	17.4	10.2	23.0	23.0
FR1 n77(78) Part 27Q PC2	Ant 8	20.2	17.9	18.9	17.4	10.2	23.0	23.0
FR1 n77(78) Part 27O PC3	Ant 8	20.2	17.9	18.9	17.4	10.2	23.0	23.0
FR1 n77(78) Part 27O PC2	Ant 8	20.2	17.9	18.9	17.4	10.2	23.0	23.0
Bluetooth	Ant 7	29.9	26.4	17.9	26.4	14.3	17.9	17.9
Bluetooth	Ant 11	35.2	24.9	18.3	24.9	15.8	18.3	18.3
WLAN2.4G	Ant7	21.0	19.8	21.0	21.0	14.0	21.0	21.0
WLAN2.4G	Ant11	21.0	19.8	21.0	21.0	14.0	21.0	21.0

WLAN2.4G	Ant7+11	21,21	19.8,19.8	21,21	21,21	14,14	21,21	24.0
WLAN5.2G	Ant6	23.0	16.0	16.5	17.5	8.0	16.5	19.0
WLAN5.2G	Ant1	23.0	16.0	16.5	18.0	8.0	16.5	19.5
WLAN5.2G	Ant6+1	23,23	16,16	16.5,16.5	17.5,17.5	8,8	16.5,16.5	22.3
WLAN5.3G	Ant6	23.0	16.0	17.0		8.0	17.0	20.0
WLAN5.3G	Ant1	23.0	16.0	16.5		8.0	16.5	19.5
WLAN5.3G	Ant6+1	23,23	16,16	16.5,16.5		8,8	16.5,16.5	22.8
WLAN5.5G	Ant6	23.0	16.5	17.5		8.5	17.5	20.0
WLAN5.5G	Ant1	23.0	16.5	17.5		8.5	17.5	19.5
WLAN5.5G	Ant6+1	23,23	16.5,16.5	17.5,17.5		8.5,8.5	17.5,17.5	22.8
WLAN5.8G	Ant6	23.0	17.5	17.5	17.5	9.5	17.5	20.5
WLAN5.8G	Ant1	23.0	17.5	17.5	17.5	9.5	17.5	20.5
WLAN5.8G	Ant6+1	23,23	17.5,17.5	17.5,17.5	17.5,17.5	9.5,9.5	17.5,17.5	23.5
WLAN6E B5	Ant6	21.2	13.8	11.8		10.0	15.0	15.0
WLAN6E B5	Ant1	21.2	13.8	11.8		10.0	15.5	15.5
WLAN6E B5	Ant6+1	21.2,21.2	13.8,13.8	11.8,11.8		10,10	15,15	18.3
WLAN6E B6	Ant6	20.2	13.8	11.8		9.5	15.5	15.5
WLAN6E B6	Ant1	20.2	13.8	11.8		9.5	15.5	15.5
WLAN6E B6	Ant6+1	20.2,20.2	13.8,13.8	11.8,11.8		9.5,9.5	15,15	18.5
WLAN6E B7	Ant6	18.6	13.3	11.3		9	15.5	15.5
WLAN6E B7	Ant1	18.6	13.3	11.3		9	15.5	15.5
WLAN6E B7	Ant6+1	18.6,18.6	13.3,13.3	11.3,11.3		9,9	15,15	18.5
WLAN6E B8	Ant6	18.1	13.8	11.8		9	17.5	17.5
WLAN6E B8	Ant1	18.1	13.8	11.8		9	17.5	17.5
WLAN6E B8	Ant6+1	18.1,18.1	13.8,13.8	11.8,11.8		9,9	17.5,17.5	20.5
FR1 n7 PC2	Ant3+2	15.4,15.4	16.3,16.3	20.2,20.2	15.8,15.8	10.6,10.6	22.5,22.5	26.0
FR1 n7 PC2	Ant4+2	26.8,26.8	18.9,18.9	21.2,21.2	18.9,18.9	13.3,13.3	22.5,22.5	25.5
FR1 n7 PC2	Ant3+0	15.4,15.4	16.3,16.3	20.2,20.2	15.8,15.8	10.6,10.6	23,23	26.0
FR1 n7 PC2	Ant4+0	26.8,26.8	20.8,20.8	23.3,23.3	20.8,20.8	14.3,14.3	22,22	25.5
FR1 n25(2) PC2	Ant3+2	20,20	18.3,18.3	20.7,20.7	17.4,17.4	13.8,13.8	23,23	26.0
FR1 n41 PC2	Ant3+2	15.4,15.4	16.5,16.5	20.3,20.3	15.7,15.7	11.8,11.8	22.5,22.5	23.0
FR1 N41 PC1.5	Ant3+2	15.4,15.4	16.5,16.5	20.3,20.3	15.7,15.7	11.8,11.8	22.5,22.5	23.0
FR1 n41 PC2	Ant4+2	27.7,27.7	18.8,18.8	20.8,20.8	19,19	11.8,11.8	22.5,22.5	22.5
FR1 N41 PC1.5	Ant4+2	27.7,27.7	18.8,18.8	20.8,20.8	19,19	11.8,11.8	22.5,22.5	22.5
FR1 n41 PC2	Ant3+0	15.4,15.4	16.5,16.5	20.3,20.3	15.7,15.7	12.6,12.6	22.5,22.5	23.0
FR1 n41 PC1.5	Ant3+0	15.4,15.4	16.5,16.5	20.3,20.3	15.7,15.7	12.6,12.6	22.5,22.5	23.0
FR1 n41 PC2	Ant4+0	27.7,27.7	20.6,20.6	22.5,22.5	20.6,20.6	14,14	22,22	22.5
FR1 N41 PC1.5	Ant4+0	27.7,27.7	20.6,20.6	22.5,22.5	20.6,20.6	14,14	22,22	22.5
FR1 n48	Ant8+4	22.8,22.8	19.3,19.3	19.8,19.8	19.3,19.3	10.2,10.2	23,23	23.0
FR1 n48	Ant2+4	29.7,29.7	18.5,18.5	21.5,21.5	18.4,18.4	10.1,10.1	23,23	23.0
FR1 n48	Ant8+6	22.8,22.8	19.3,19.3	19.8,19.8	19.3,19.3	10.2,10.2	23,23	23.0
FR1 n48	Ant2+6	26.4,26.4	18.5,18.5	21.5,21.5	18.4,18.4	10.1,10.1	23,23	23.0
FR1 n66 PC2	Ant3+2	22.2,22.2	19.9,19.9	22.2,22.2	19.1,19.1	14.1,14.1	23,23	26.0
FR1 n77(78) PC2	Ant8+4	20.7,20.7	17.9,17.9	18.9,18.9	17.9,17.9	9,9	20.9,20.9	23.0
FR1 n77(78) PC1.5	Ant8+4	20.7,20.7	17.9,17.9	18.9,18.9	17.9,17.9	9,9	20.9,20.9	23.0
FR1 n77(78) PC2	Ant2+4	26.9,26.9	18.5,18.5	20.9,20.9	17.4,17.4	10.4,10.4	23,23	23.0
FR1 n77(78) PC1.5	Ant2+4	26.9,26.9	18.5,18.5	20.9,20.9	17.4,17.4	10.4,10.4	23,23	23.0
FR1 n77(78) PC2	Ant8+6	20.7,20.7	17.9,17.9	18.9,18.9	17.9,17.9	9,9	20.9,20.9	23.0
FR1 n77(78) PC1.5	Ant8+6	20.7,20.7	17.9,17.9	18.9,18.9	17.9,17.9	9,9	20.9,20.9	23.0
FR1 n77(78) PC2	Ant2+6	23.2,23.2	18.4,18.4	20.9,20.9	17.4,17.4	10.4,10.4	23,23	23.0
FR1 n77(78) PC1.5	Ant2+6	23.2,23.2	18.4,18.4	20.9,20.9	17.4,17.4	10.4,10.4	23,23	23.0

Note:

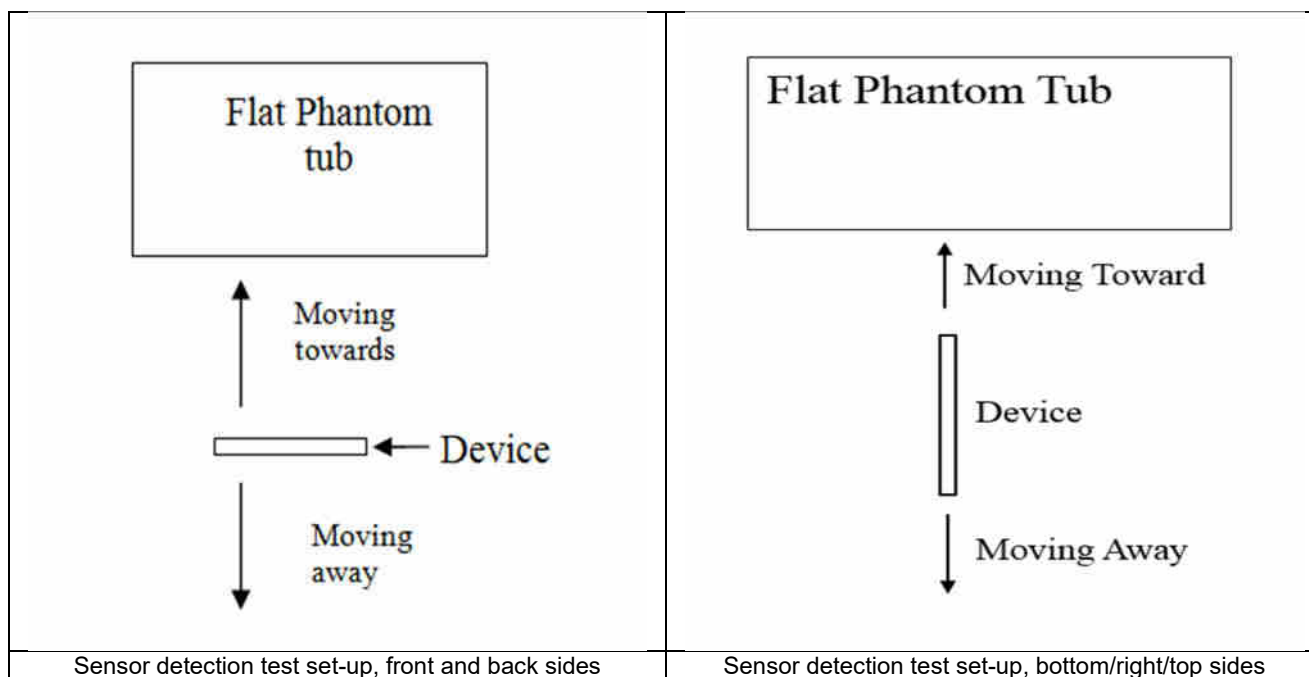
- 1) *Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + Total uncertainty. (The DUT's device uncertainty is 1.0 dB for Sub-6GHz WWAN and 1.5 dB for WLAN/BT bands.)
- 2) All Plimit power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD & WLAN/BT).

3) The max allowed output power is the Plimit + Total uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.

6. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (7125MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
3. The device employs proximity sensors also can detect the presence of the user's a finger or hand when handheld state at the front/back/top/bottom /right sides of the device. When front/back/top/bottom /right sides of handheld condition is detected reduced power will be active.
4. The sensors can use to detect the proximity of the user's body or handheld states at the front or back or top or right or bottom side of the device use a detection threshold distance. When front/back/top/right/ bottom sides of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
5. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed.



**<Flip-Open Mode>
<P-Sensor>**

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	13	19	16	21

<Handheld for ANT 0&2>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	19	24	16	22	16	22	15	20

<Handheld for ANT6&3&8>

Proximity Sensor Triggering Distance (mm)							
Position	Front		Back		Top Side		
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	
Minimum	11	16	13	17	16	21	

<Handheld for ANT4&7>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	15	21	15	18	16	21	10	16

**<Flip-Close Mode>
<P-Sensor>**

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	10	13	14	19

<Handheld for ANT 0&2>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	11	15	11	16	10	15	7	12

<Handheld for ANT6&8>

Proximity Sensor Triggering Distance (mm)				
Position	Back		Top Side	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	5	9	8	14

<Handheld for ANT4&7>

Proximity Sensor Triggering Distance (mm)						
Position	Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	7	11	9	14	8	14

<Handheld for ANT 3>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	8	13	5	9	8	14

7. RF Exposure Limits

7.1 Uncontrolled Environment

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

7.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The 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.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

7.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

8. Specific Absorption Rate (SAR)

8.1 Introduction

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.

8.2 SAR Definition

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:

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

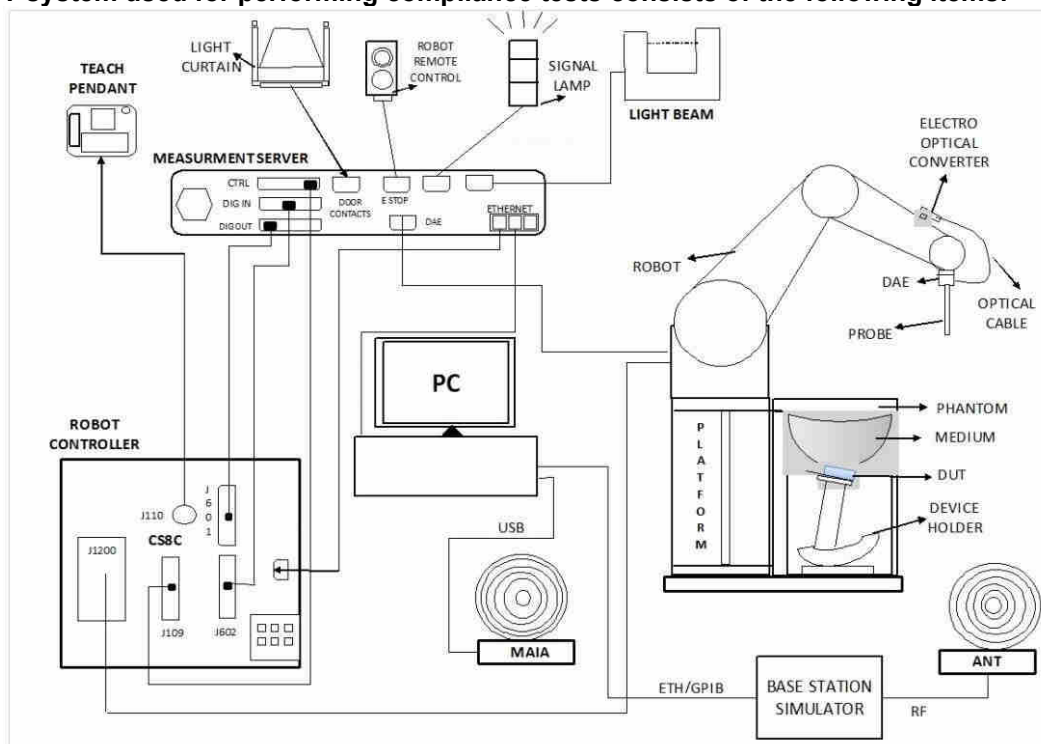
SAR is expressed in units of Watts per kilogram (W/kg)

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

9. System Description and Setup

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



- The DASY system in SAR Configuration is shown above
- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (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.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running windows software and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

9.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Laboratory	Wensan Laboratory	
Test Site Location	TW3786 No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan	
Test Site No.	SAR14-HY	SAR20-HY
	SAR18-HY	SAR21-HY
	SAR19-HY	

9.2 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

< EX3DV4 Probe >

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – > 6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

9.3 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists 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 and 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.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig 5.1 Photo of DAE

9.4 Phantom

< SAM Twin Phantom >

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

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. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

< ELI Phantom >

Shell Thickness	2 ± 0.2 mm (sagging: < 1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

9.5 Device Holder

< Mounting Device for Hand-Held Transmitter >

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

< Mounting Device for Laptops and other Body-Worn Transmitters >

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

10. Measurement Procedures

The measurement procedures are as follows:

- (a) Configure the device RF transmitters to be in continuous transmission mode., at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

10.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

10.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

10.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	$\leq 2 \text{ GHz: } \leq 15 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 12 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 12 \text{ mm}$ $4 - 6 \text{ GHz: } \leq 10 \text{ mm}$
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

10.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

10.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

10.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

11. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	13MHz System Validation Kit	CLA13	1011	Jul. 10, 2023	Jul. 07, 2026
SPEAG	750MHz System Validation Kit	D750V3	1117	Mar. 12, 2025	Mar. 10, 2027
SPEAG	835MHz System Validation Kit	D835V2	4d167	Apr. 23, 2026	Apr. 22, 2027
SPEAG	1750MHz System Validation Kit	D1750V2	1112	Feb. 20, 2025	Feb. 18, 2027
SPEAG	1900MHz System Validation Kit	D1900V2	5d041	Aug. 15, 2024	Aug. 13, 2026
SPEAG	1900MHz System Validation Kit	D1900V2	5d185	Jun. 11, 2025	Jun. 09, 2027
SPEAG	2450MHz System Validation Kit	D2450V2	929	Nov. 12, 2025	Nov. 11, 2026
SPEAG	2600MHz System Validation Kit	D2600V2	1008	Aug. 15, 2024	Aug. 13, 2026
SPEAG	2600MHz System Validation Kit	D2600V2	1078	Jun. 11, 2025	Jun. 09, 2027
SPEAG	3500MHz System Validation Kit	D3500V2	1014	Jan. 15, 2025	Jan. 13, 2027
SPEAG	3700MHz System Validation Kit	D3700V2	1006	Jun. 12, 2025	Jun. 10, 2027
SPEAG	3900MHz System Validation Kit	D3900V2	1092	May 11, 2026	May 10, 2027
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1083	Oct. 22, 2025	Oct. 21, 2026
SPEAG	5GHz System Validation Kit	D5GHzV2	1006	Oct. 15, 2024	Oct. 13, 2026
SPEAG	5G Verification Source	10GHz	1052	Oct. 13, 2025	Oct. 12, 2026
SPEAG	Data Acquisition Electronics	DAE4	1424	Dec. 03, 2025	Dec. 02, 2026
SPEAG	Data Acquisition Electronics	DAE4	1776	Feb. 13, 2026	Feb. 12, 2027
SPEAG	Data Acquisition Electronics	DAE4	699	Feb. 13, 2026	Feb. 12, 2027
SPEAG	Data Acquisition Electronics	DAE4	1399	Mar. 11, 2026	Mar. 10, 2027
SPEAG	Data Acquisition Electronics	DAE4	376	Apr. 20, 2026	Apr. 19, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Oct. 23, 2025	Oct. 22, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	3976	Jan. 27, 2026	Jan. 26, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	7791	Feb. 20, 2026	Feb. 19, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	3728	Mar. 26, 2026	Mar. 25, 2027
SPEAG	EUmmWV Probe Tip Protection	EUmmWV3	9424	Mar. 12, 2026	Mar. 11, 2027
SPEAG	Dielectric Probe Kit	DAK-3.5	1146	Jul. 14, 2025	Jul. 13, 2026
SPEAG	Dielectric Probe Kit	DAK-12	1156	Jul. 14, 2025	Jul. 13, 2026
Testo	Hygro meter	608-H1	45196600	Nov. 04, 2025	Nov. 03, 2026
Testo	Hygro meter	608-H1	45207528	Nov. 04, 2025	Nov. 03, 2026
Anritsu	Radio Communication Analyzer	MT8821C	6201074414	Aug. 19, 2025	Aug. 18, 2026
Keysight	5G Wireless Test Platform	E7515B	MY58300712	Sep. 09, 2025	Sep. 08, 2026
R&S	BT Base Station	CBT	101136	Oct. 29, 2025	Oct. 28, 2026
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 24, 2025	Sep. 23, 2026
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 14, 2025	Oct. 13, 2026
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3690	Aug. 14, 2025	Aug. 13, 2026
Anritsu	Power Meter	ML2495A	1419002	Aug. 13, 2024	Aug. 11, 2026
Anritsu	Power Sensor	MA2411B	1911334	Jul. 14, 2025	Jul. 13, 2026
Anritsu	Spectrum Analyzer	MS2830A	6272625959	Aug. 14, 2025	Aug. 13, 2026
Mini-Circuits	Power Amplifier	ZHL-42W+	N147802518	Jul. 30, 2025	Jul. 29, 2026
Mini-Circuits	Power Amplifier	ZVE-8G+	D120604	Oct. 17, 2025	Oct. 16, 2026
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4B1	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005- 3	N/A	Note 1	

General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
2. The dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

12. System Verification

12.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The depth of the tissue-equivalent liquid in the phantom was at least 15 cm for all SAR testing.

The SPEAG Dasy Measurement system implement a SAR error compensation algorithm as documented in IEEE Std 1528-2013 to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, according to KDB 865664 D01 and IEC/IEEE 62209-1528, the tolerance for "Delta (σ)" and "Delta (ϵ_r)" can be relaxed to $\pm 10\%$

< Tissue Dielectric Parameter Check Results >

Frequency (MHz)	Liquid Temp (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
13	22.5	0.757	54.9	0.75	55	0.93	-0.18	± 10.0	2026-07-07
750	22.6	0.876	42.7	0.89	41.9	-1.57	1.91	± 10.0	2026-06-18
750	22.6	0.876	42.7	0.89	41.9	-1.57	1.91	± 10.0	2026-06-18
750	22.5	0.908	42.8	0.89	41.9	2.02	2.15	± 10.0	2026-06-22
750	22.5	0.875	45.3	0.89	41.9	-1.69	8.11	± 10.0	2026-06-23
750	22.3	0.876	42.7	0.89	41.9	-1.57	1.91	± 10.0	2026-06-23
750	22.5	0.895	42.8	0.89	41.9	0.56	2.15	± 10.0	2026-06-27
835	22.6	0.908	42.4	0.9	41.5	0.89	2.17	± 10.0	2026-06-18
835	22.5	0.898	44.9	0.9	41.5	-0.22	8.19	± 10.0	2026-06-18
835	22.5	0.937	43	0.9	41.5	4.11	3.61	± 10.0	2026-06-22
835	22.5	0.904	45.1	0.9	41.5	0.44	8.67	± 10.0	2026-06-23
835	22.3	0.908	42.4	0.9	41.5	0.89	2.17	± 10.0	2026-06-23
835	22.5	0.926	42.5	0.9	41.5	2.89	2.41	± 10.0	2026-06-27
1750	22.6	1.32	40.5	1.37	40.1	-3.65	1.00	± 10.0	2026-06-18
1750	22.5	1.32	43.4	1.37	40.1	-3.65	8.23	± 10.0	2026-06-18
1750	22.5	1.34	43.6	1.37	40.1	-2.19	8.73	± 10.0	2026-06-23
1750	22.3	1.36	41	1.37	40.1	-0.73	2.24	± 10.0	2026-06-24
1750	22.6	1.32	42	1.37	40.1	-3.65	4.74	± 10.0	2026-06-26
1750	22.6	1.35	42.7	1.37	40.1	-1.46	6.48	± 10.0	2026-06-27
1750	22.5	1.37	40.8	1.37	40.1	0.00	1.75	± 10.0	2026-06-28
1750	22.7	1.35	41.9	1.37	40.1	-1.46	4.49	± 10.0	2026-07-01
1750	22.3	1.36	40.5	1.37	40.1	-0.73	1.00	± 10.0	2026-07-03
1900	22.6	1.42	40.3	1.4	40	1.43	0.75	± 10.0	2026-06-18
1900	22.5	1.41	43.2	1.4	40	0.71	8.00	± 10.0	2026-06-18
1900	22.5	1.42	43.4	1.4	40	1.43	8.50	± 10.0	2026-06-23
1900	22.3	1.44	40.7	1.4	40	2.86	1.75	± 10.0	2026-06-24
1900	22.5	1.42	43.6	1.4	40	1.43	9.00	± 10.0	2026-06-27
1900	22.6	1.43	42.4	1.4	40	2.14	6.00	± 10.0	2026-06-27
1900	22.5	1.45	40.6	1.4	40	3.57	1.50	± 10.0	2026-06-28
1900	22.7	1.43	41.7	1.4	40	2.14	4.25	± 10.0	2026-07-01
1900	22.3	1.44	40.2	1.4	40	2.86	0.50	± 10.0	2026-07-03
2450	22.5	1.81	39.6	1.8	39.2	0.56	1.02	± 10.0	2026-07-01
2450	22.7	1.79	40.9	1.8	39.2	-0.56	4.34	± 10.0	2026-07-02
2450	22.3	1.82	39.6	1.8	39.2	1.11	1.02	± 10.0	2026-07-13
2600	22.6	1.9	39.2	1.96	39	-3.06	0.51	± 10.0	2026-06-18
2600	22.5	1.91	42.3	1.96	39	-2.55	8.46	± 10.0	2026-06-18
2600	22.5	1.96	39.4	1.96	39	0.00	1.03	± 10.0	2026-06-22
2600	22.3	1.9	39.2	1.96	39	-3.06	0.51	± 10.0	2026-06-23
2600	22.5	1.9	42.2	1.96	39	-3.06	8.21	± 10.0	2026-06-24
2600	22.6	1.99	41.3	1.96	39	1.53	5.90	± 10.0	2026-06-26
2600	22.5	1.97	39.5	1.96	39	0.51	1.28	± 10.0	2026-06-29
2600	22.6	1.97	41.2	1.96	39	0.51	5.64	± 10.0	2026-06-29
2600	22.4	1.99	39.8	1.96	39	1.53	2.05	± 10.0	2026-07-04
3500	22.4	2.8	39.7	2.91	37.9	-3.78	4.75	± 10.0	2026-06-19
3500	22.5	2.66	40.7	2.91	37.9	-8.59	7.39	± 10.0	2026-06-24
3500	22.5	2.71	40.5	2.91	37.9	-6.87	6.86	± 10.0	2026-06-25
3500	22.5	2.75	37.9	2.91	37.9	-5.50	0.00	± 10.0	2026-06-26



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3500	22.5	2.65	37.6	2.91	37.9	-8.93	-0.79	±10.0	2026-06-30
3500	22.6	2.73	37.7	2.91	37.9	-6.19	-0.53	±10.0	2026-07-02
3700	22.4	2.96	39.4	3.12	37.7	-5.13	4.51	±10.0	2026-06-19
3700	22.5	2.98	37.8	3.12	37.7	-4.49	0.27	±10.0	2026-06-19
3700	22.5	2.84	40.4	3.12	37.7	-8.97	7.16	±10.0	2026-06-24
3700	22.5	2.9	40.2	3.12	37.7	-7.05	6.63	±10.0	2026-06-25
3700	22.5	2.93	37.6	3.12	37.7	-6.09	-0.27	±10.0	2026-06-26
3700	22.5	2.87	37.5	3.12	37.7	-8.01	-0.53	±10.0	2026-06-30
3700	22.6	2.91	37.4	3.12	37.7	-6.73	-0.80	±10.0	2026-07-02
3900	22.5	3.1	39.9	3.3272	37.5102	-6.83	6.37	±10.0	2026-06-25
3900	22.5	3.1	37.3	3.3272	37.5102	-6.83	-0.56	±10.0	2026-06-26
3900	22.5	3.01	37.1	3.3272	37.5102	-9.53	-1.09	±10.0	2026-06-30
3900	22.6	3.11	37.1	3.3272	37.5102	-6.53	-1.09	±10.0	2026-07-02
5250	22.5	4.5	34.6	4.71	35.95	-4.46	-3.76	±10.0	2026-07-01
5250	22.7	4.6	35	4.71	35.95	-2.34	-2.64	±10.0	2026-07-07
5600	22.5	4.81	34	5.07	35.5	-5.13	-4.23	±10.0	2026-07-01
5600	22.7	4.98	34.3	5.07	35.5	-1.78	-3.38	±10.0	2026-07-07
5800	22.5	5.14	33.8	5.27	35.3	-2.47	-4.25	±10.0	2026-07-01
5800	22.7	5.23	34	5.27	35.3	-0.76	-3.68	±10.0	2026-07-07
6500	22.5	5.94	32.5	6.07	34.5	-2.14	-5.80	±10.0	2026-07-03

12.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR19	2026-07-07	13	1000	CLA-13 - SN1011	EX3DV4 - SN3931	DAE4 Sn1424	0.515	0.544	0.515	-5.33	0.319	0.34	0.319	-6.18
SAR20	2026-06-18	750	251.189	D750V3 - SN1117	EX3DV4 - SN7791	DAE4 Sn1399	2.11	8.6	8.4	-2.33	1.41	5.57	5.6133	0.78
SAR21	2026-06-18	750	251.189	D750V3 - SN1117	EX3DV4 - SN3728	DAE4 Sn376	1.95	8.6	7.7631	-9.73	1.31	5.57	5.2152	-6.37
SAR21	2026-06-22	750	251.189	D750V3 - SN1117	EX3DV4 - SN3728	DAE4 Sn376	2.15	8.6	8.5593	-0.47	1.41	5.57	5.6133	0.78
SAR20	2026-06-23	750	251.189	D750V3 - SN1117	EX3DV4 - SN7791	DAE4 Sn1399	2.15	8.6	8.5593	-0.47	1.41	5.57	5.6133	0.78
SAR21	2026-06-23	750	251.189	D750V3 - SN1117	EX3DV4 - SN3728	DAE4 Sn376	2.13	8.6	8.4797	-1.40	1.43	5.57	5.6929	2.21
SAR20	2026-06-27	750	251.189	D750V3 - SN1117	EX3DV4 - SN7791	DAE4 Sn1399	2.1	8.6	8.3602	-2.79	1.39	5.57	5.5337	-0.65
SAR21	2026-06-18	835	251.189	D835V2 - SN4d167	EX3DV4 - SN3728	DAE4 Sn376	2.41	9.55	9.5944	0.46	1.6	6.25	6.3697	1.92
SAR20	2026-06-18	835	251.189	D835V2 - SN4d167	EX3DV4 - SN7791	DAE4 Sn1399	2.37	9.55	9.4351	-1.20	1.55	6.25	6.1707	-1.27
SAR21	2026-06-22	835	251.189	D835V2 - SN4d167	EX3DV4 - SN3728	DAE4 Sn376	2.55	9.55	10.1517	6.30	1.65	6.25	6.5688	5.10
SAR20	2026-06-23	835	251.189	D835V2 - SN4d167	EX3DV4 - SN7791	DAE4 Sn1399	2.6	9.55	10.3508	8.39	1.7	6.25	6.7678	8.28
SAR21	2026-06-23	835	251.189	D835V2 - SN4d167	EX3DV4 - SN3728	DAE4 Sn376	2.51	9.55	9.9925	4.63	1.67	6.25	6.6484	6.37
SAR20	2026-06-27	835	251.189	D835V2 - SN4d167	EX3DV4 - SN7791	DAE4 Sn1399	2.42	9.55	9.6342	0.88	1.6	6.25	6.3697	1.92
SAR21	2026-06-18	1750	50.1187	D1750V2 - SN1112	EX3DV4 - SN3728	DAE4 Sn376	1.74	36.3	34.7176	-4.36	0.929	19.3	18.536	-3.96
SAR20	2026-06-18	1750	50.1187	D1750V2 - SN1112	EX3DV4 - SN7791	DAE4 Sn1399	1.71	36.3	34.119	-6.01	0.905	19.3	18.0571	-6.44
SAR20	2026-06-23	1750	251.189	D1750V2 - SN1112	EX3DV4 - SN7791	DAE4 Sn1399	8.76	36.3	34.8741	-3.93	4.63	19.3	18.4323	-4.50
SAR21	2026-06-24	1750	50.1187	D1750V2 - SN1112	EX3DV4 - SN3728	DAE4 Sn376	1.75	36.3	34.9171	-3.81	0.938	19.3	18.7156	-3.03
SAR18	2026-06-26	1750	50.1187	D1750V2 - SN1112	EX3DV4 - SN3976	DAE4 Sn1776	1.74	36.3	34.7176	-4.36	0.931	19.3	18.5759	-3.75
SAR21	2026-06-27	1750	50.1187	D1750V2 - SN1112	EX3DV4 - SN3728	DAE4 Sn376	1.78	36.3	35.5157	-2.16	0.95	19.3	18.955	-1.79
SAR20	2026-06-28	1750	251.189	D1750V2 - SN1112	EX3DV4 - SN7791	DAE4 Sn1399	9.42	36.3	37.5016	3.31	5.03	19.3	20.0248	3.76
SAR21	2026-07-01	1750	50.1187	D1750V2 - SN1112	EX3DV4 - SN3728	DAE4 Sn376	1.77	36.3	35.3162	-2.71	0.947	19.3	18.8951	-2.10
SAR21	2026-07-03	1750	50.1187	D1750V2 - SN1112	EX3DV4 - SN3728	DAE4 Sn376	1.76	36.3	35.1166	-3.26	0.945	19.3	18.8552	-2.30
SAR21	2026-06-18	1900	50.1187	D1900V2 - SN5d041	EX3DV4 - SN3728	DAE4 Sn376	1.9	39.2	37.91	-3.29	0.998	20.7	19.9127	-3.80
SAR20	2026-06-18	1900	50.1187	D1900V2 - SN5d185	EX3DV4 - SN7791	DAE4 Sn1399	1.9	39.6	37.91	-4.27	0.99	20.8	19.7531	-5.03
SAR20	2026-06-23	1900	251.189	D1900V2 - SN5d185	EX3DV4 - SN3728	DAE4 Sn376	10.2	39.6	40.6069	2.54	5.31	20.8	21.1395	1.63
SAR21	2026-06-24	1900	50.1187	D1900V2 - SN5d041	EX3DV4 - SN3728	DAE4 Sn376	1.92	39.2	38.3091	-2.27	1.01	20.7	20.1522	-2.65
SAR18	2026-06-27	1900	50.1187	D1900V2 - SN5d185	EX3DV4 - SN3976	DAE4 Sn1776	1.91	39.6	38.1095	-3.76	1	20.8	19.9526	-4.07
SAR21	2026-06-27	1900	50.1187	D1900V2 - SN5d185	EX3DV4 - SN3728	DAE4 Sn376	1.91	39.6	38.1095	-3.76	1	20.8	19.9526	-4.07
SAR20	2026-06-28	1900	251.189	D1900V2 - SN5d185	EX3DV4 - SN7791	DAE4 Sn1399	9.77	39.6	38.895	-1.78	5.09	20.8	20.2636	-2.58
SAR21	2026-07-01	1900	50.1187	D1900V2 - SN5d041	EX3DV4 - SN3728	DAE4 Sn376	1.87	39.2	37.3114	-4.82	0.979	20.7	19.5336	-5.63
SAR21	2026-07-03	1900	50.1187	D1900V2 - SN5d185	EX3DV4 - SN3728	DAE4 Sn376	1.93	39.6	38.5086	-2.76	1.01	20.8	20.1522	-3.11
SAR20	2026-07-01	2450	50.1187	D2450V2 - SN929	EX3DV4 - SN7791	DAE4 Sn1399	2.5	53.3	49.8816	-6.41	1.17	25.2	23.3446	-7.36
SAR21	2026-07-02	2450	50.1187	D2450V2 - SN929	EX3DV4 - SN3728	DAE4 Sn376	2.48	53.3	49.4825	-7.16	1.16	25.2	23.1451	-8.15
SAR20	2026-07-13	2450	50.1187	D2450V2 - SN929	EX3DV4 - SN7791	DAE4 Sn1399	2.46	53.3	49.0835	-7.91	1.15	25.2	22.9455	-8.95
SAR21	2026-06-18	2600	46.7735	D2600V2 - SN1008	EX3DV4 - SN3728	DAE4 Sn376	2.49	55.7	53.2353	-4.42	1.12	25.3	23.9452	-5.35
SAR20	2026-06-18	2600	50.1187	D2600V2 - SN1008	EX3DV4 - SN7791	DAE4 Sn1399	3.05	55.7	60.8555	9.26	1.31	25.3	26.1379	3.31
SAR21	2026-06-22	2600	251.189	D2600V2 - SN1008	EX3DV4 - SN3728	DAE4 Sn376	13.8	55.7	54.9387	-1.37	6.16	25.3	24.5234	-3.07
SAR21	2026-06-23	2600	251.189	D2600V2 - SN1008	EX3DV4 - SN3728	DAE4 Sn376	13.3	55.7	52.9482	-4.94	6.01	25.3	23.9262	-5.43
SAR20	2026-06-24	2600	46.7735	D2600V2 - SN1008	EX3DV4 - SN7791	DAE4 Sn1399	2.53	55.7	54.0905	-2.89	1.1	25.3	23.5176	-7.05
SAR21	2026-06-26	2600	50.1187	D2600V2 - SN1008	EX3DV4 - SN3728	DAE4 Sn376	2.58	55.7	51.4778	-7.58	1.17	25.3	23.3446	-7.73
SAR21	2026-06-29	2600	251.189	D2600V2 - SN1078	EX3DV4 - SN7791	DAE4 Sn1399	15.1	55.3	60.1141	8.71	6.8	24.9	27.0712	8.72
SAR21	2026-06-29	2600	50.1187	D2600V2 - SN1078	EX3DV4 - SN3728	DAE4 Sn376	2.63	55.3	52.4754	-5.11	1.19	24.9	23.7436	-4.64
SAR21	2026-07-04	2600	50.1187	D2600V2 - SN1078	EX3DV4 - SN3728	DAE4 Sn376	2.56	55.3	51.0787	-7.63	1.16	24.9	23.1451	-7.05
SAR20	2026-06-19	3500	100	D3500V2 - SN1014	EX3DV4 - SN7791	DAE4 Sn1399	6.74	65.7	67.4	2.59	2.59	24.9	25.9	4.02
SAR20	2026-06-24	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7791	DAE4 Sn1399	3.04	65.7	60.656	-7.68	1.13	24.9	22.5465	-9.45
SAR20	2026-06-25	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7791	DAE4 Sn1399	3.21	65.7	64.048	-2.51	1.23	24.9	24.5417	-1.44
SAR20	2026-06-26	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7791	DAE4 Sn1399	3.2	65.7	63.8484	-2.82	1.22	24.9	24.3422	-2.24
SAR20	2026-06-30	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7791	DAE4 Sn1399	3.08	65.7	61.4541	-6.46	1.17	24.9	23.3446	-6.25
SAR20	2026-07-02	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7791	DAE4 Sn1399	3.07	65.7	61.2546	-6.77	1.17	24.9	23.3446	-6.25
SAR20	2026-06-19	3700	100	D3700V2 - SN1006	EX3DV4 - SN7791	DAE4 Sn1399	7.43	69.9	74.3	6.29	2.77	25.6	27.7	8.20
SAR20	2026-06-19	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7791	DAE4 Sn1399	3.31	69.9	66.0432	-5.52	1.22	25.6	24.3422	-4.91
SAR20	2026-06-24	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7791	DAE4 Sn1399	3.31	69.9	66.0432	-5.52	1.18	25.6	23.5441	-8.03
SAR20	2026-06-25	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7791	DAE4 Sn1399	3.36	69.9	67.0408	-4.09	1.25	25.6	24.9408	-2.58
SAR20	2026-06-26	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7791	DAE4 Sn1399	3.34	69.9	66.6418	-4.66	1.24	25.6	24.7413	-3.35
SAR20	2026-06-30	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7791	DAE4 Sn1399	3.25	69.9	64.8461	-7.23	1.21	25.6	24.1427	-5.69
SAR20	2026-07-02	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7791	DAE4 Sn1399	3.24	69.9	64.6465	-7.52	1.2	25.6	23.9432	-6.47
SAR20	2026-06-25	3900	50.1187	D3900V2 - SN1092	EX3DV4 - SN7791	DAE4 Sn1399	3.14	65.7	62.6513	-4.64	1.12	23.1	22.3469	-3.26
SAR20	2026-06-26	3900	50.1187	D3900V2 - SN1092	EX3DV4 - SN7791	DAE4 Sn1399	3.12	65.7	62.2522	-5.25	1.1	23.1	21.9479	-4.99
SAR20	2026-06-30	3900	50.1187	D3900V2 - SN1092	EX3DV4 - SN7791	DAE4 Sn1399	3.03	65.7	60.4565	-7.98	1.07	23.1	21.3493	-7.58
SAR20	2026-07-02	3900	50.1187	D3900V2 - SN1092	EX3DV4 - SN7791	DAE4 Sn1399	3.21	65.7	64.048	-2.51	1.13	23.1	22.5465	-2.40
SAR20	2026-07-01	5250	50.1187	D5GHzV2 - SN1006	EX3DV4 - SN7791	DAE4 Sn1399	3.85	80.6	76.8176	-4.69	1.11	22.8	22.1474	-2.86
SAR21	2026-07-07	5250	50.1187	D5GHzV2 - SN1006	EX3DV4 - SN3728	DAE4 Sn376	4.11	80.6	82.0053	1.74	1.18	22.8	23.5441	3.26
SAR20	2026-07-01	5600	50.1187	D5GHzV2 - SN1006	EX3DV4 - SN7791	DAE4 Sn1399	4.1	83.4	81.8058	-1.91	1.17	23.7	23.3446	-1.50
SAR21	2026-07-07	5600	50.1187	D5GHzV2 - SN1006	EX3DV4 - SN3728	DAE4 Sn376	4.56	83.4	90.984	9.09	1.29	23.7	25.7389	8.60
SAR20	2026-07-01	5800	50.1187	D5GHzV2 - SN1006	EX3DV4 - SN7791	DAE4 Sn1399	3.94	80.6	78.6134	-2.46	1.13	22.7	22.5465	-0.68
SAR21	2026-07-07	5800	50.1187	D5GHzV2 - SN1006	EX3DV4 - SN3728	DAE4 Sn376	3.98	80.6	79.4115	-1.47	1.13	22.7	22.5465	-0.68

SAR20	2026-07-03	6500	100	D6.5GHzV2 - SN1083	EX3DV4 - SN7791	DAE4 Sn1399	32	302	320	5.96	5.97	56.5	59.7	5.66
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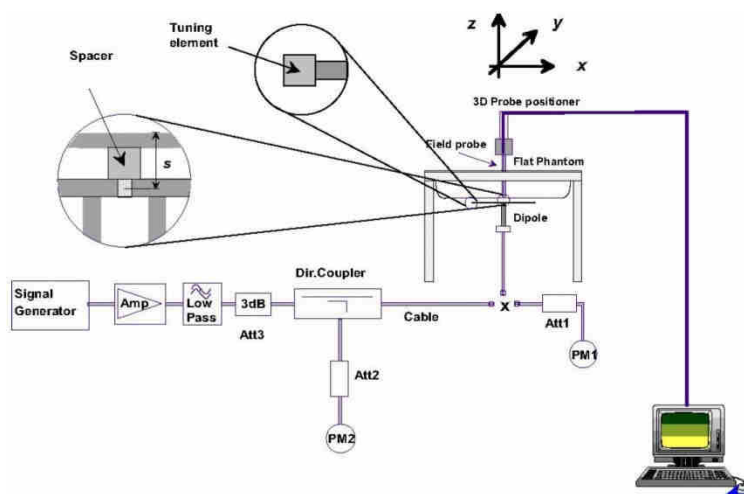


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

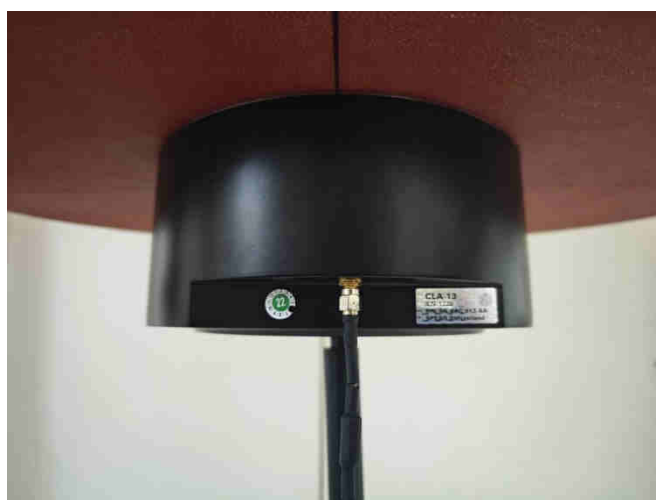
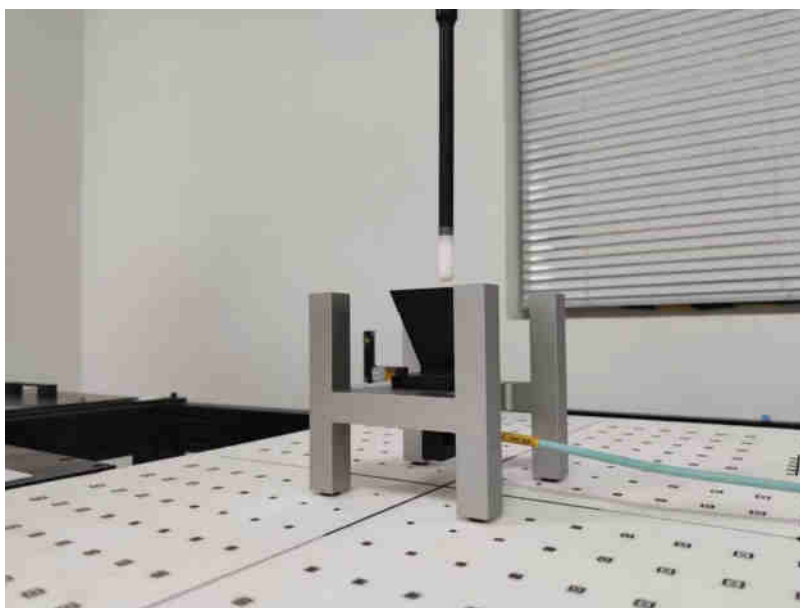


Fig 11.3.3 Setup Photo

12.3 PD System Verification Results

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	psPDtot+ Measured 4 cm ² (W/m ²)	psPDtot+ Targeted 4 cm ² (W/m ²)	Deviation (dB)	Test Site	Date
10G	10GHz_1052	EUmmWV3-9424	DAE4 SN699	10mm	54.8	54	0.06	SAR14	2026/7/8



System Verification Setup Photo

13. RF Exposure Positions

13.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

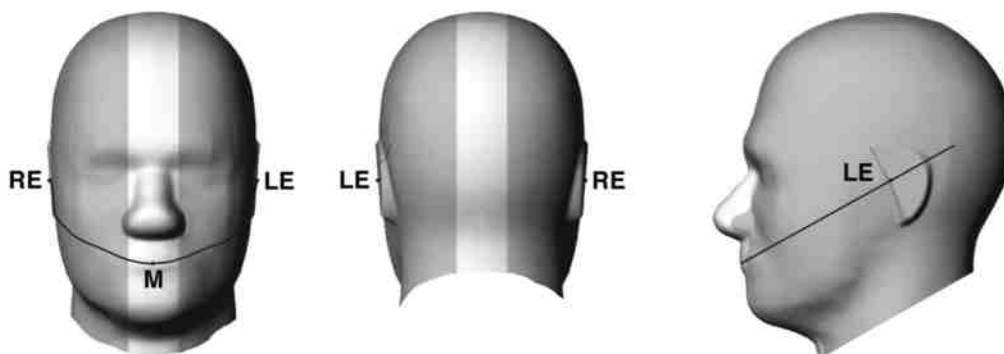


Fig 9.1.1 Front, back, and side views of SAM twin phantom

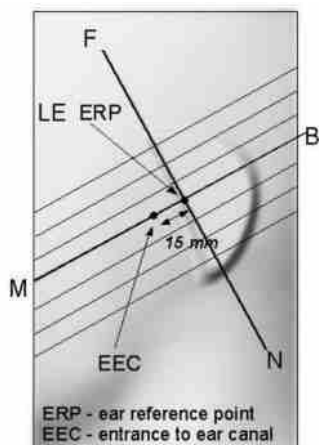


Fig 9.1.2 Close-up side view of phantom showing the ear region.

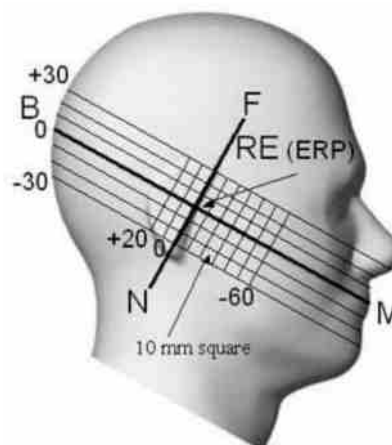


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

13.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

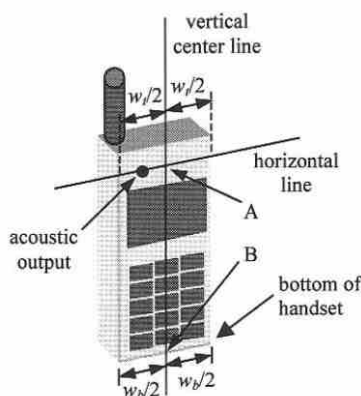


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case"

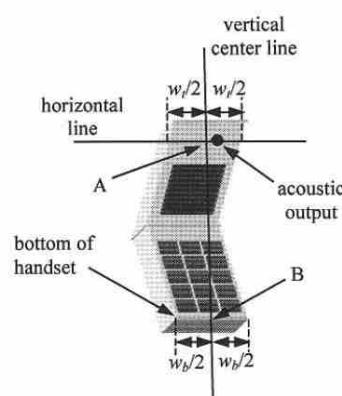


Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

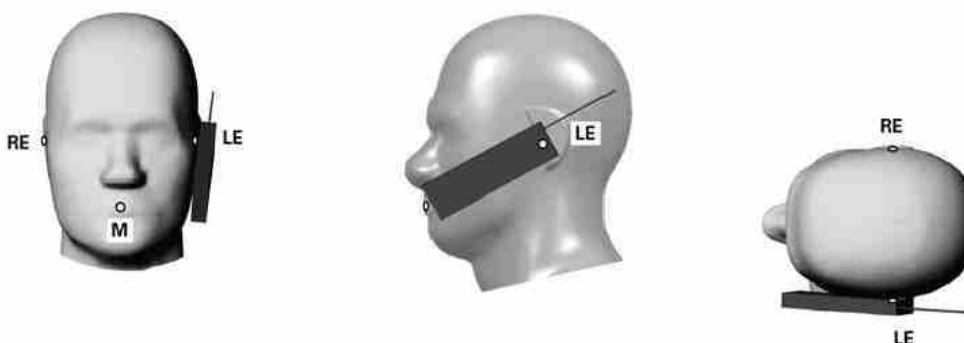


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

13.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

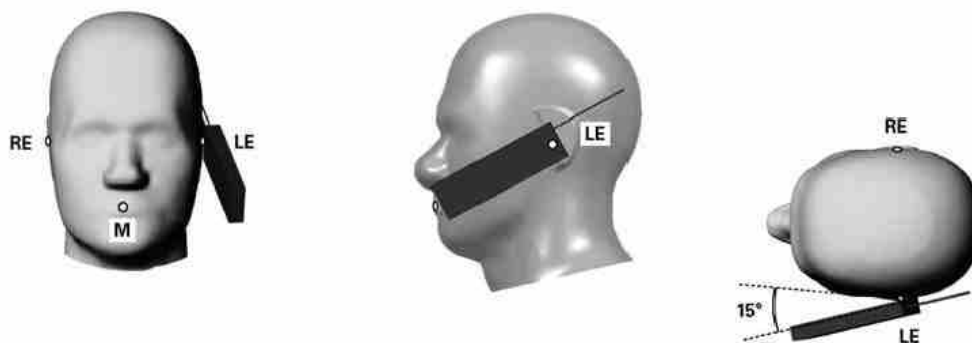


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

13.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, 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 FCC KDB 447498 D01v06 should be 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 applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

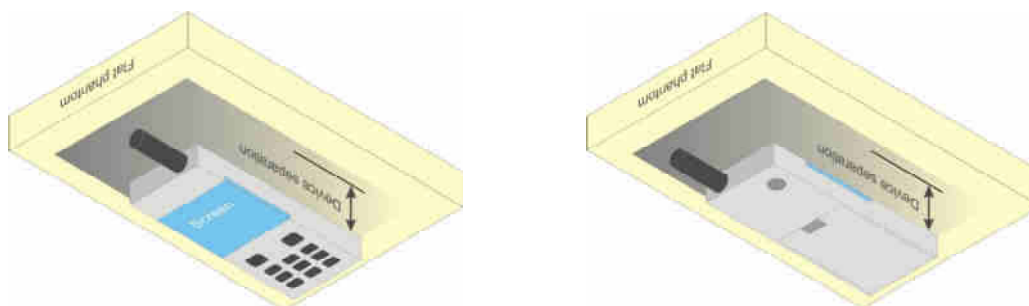


Fig 9.4 Body Worn Position

13.5 Product Specific 10g SAR Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, According to KDB648474 D04v01r03, 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

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. 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 in KDB 865664 to address interactive hand use exposure conditions.6 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.

13.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets (L x W $\geq$ 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

13.7 Miscellaneous Testing Considerations

- Evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020.
- Per procedures of KDB Pubs. 447498 and 248227, and applicable product-specific procedures among KDB Pubs. 648474 (handsets/phones).
- Where supported by the test system, also report estimated absorbed (epithelial) power density (for reference purposes only, not specifically for compliance) and estimated incident PD, derived from measured SAR.
- In addition, for the highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane)

Adjust measured results per amount that measurement uncertainty exceeds 30 % (see e.g. IEC 62479:2010)

14. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{EC}	β_{ED} (Note 4) (Note 5)	β_{ED} (SF)	β_{ED} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ED1} : 47/15 β_{ED2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{HS} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ED} can not be set directly; It is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set RMC 12.2Kbps + HSDPA mode.
 - ii. Set Cell Power = -25 dBm
 - iii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
 - iv. Select HSDPA Uplink Parameters
 - v. Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - a). Subtest 1: $\beta_c/\beta_d=2/15$
 - b). Subtest 2: $\beta_c/\beta_d=12/15$
 - c). Subtest 3: $\beta_c/\beta_d=15/8$
 - d). Subtest 4: $\beta_c/\beta_d=15/4$
 - vi. Set Delta ACK, Delta NACK and Delta CQI = 8
 - vii. Set Ack-Nack Repetition Factor to 3
 - viii. Set CQI Feedback Cycle (k) to 4 ms
 - ix. Set CQI Repetition Factor to 2
 - x. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

C.8.1.12 Fixed Reference Channel Definition H-Set 12

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

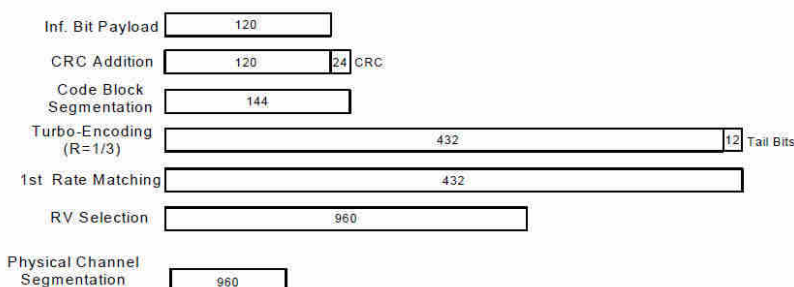


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

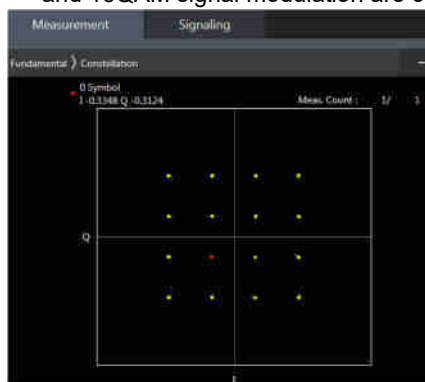
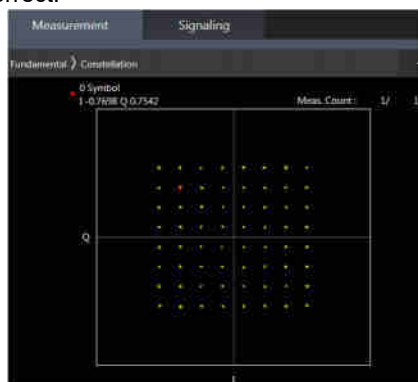
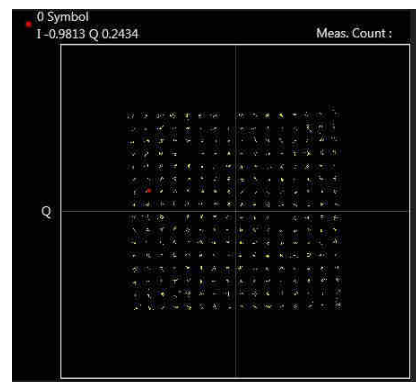
**<WCDMA Conducted Power>****General Note:**

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

< LTE Conducted Power >

General Note:

1. Anritsu MT8821C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B2 / B4 / B5 / B17 / B38 / B42 (3550 MHz ~ 3600MHz)&B43 SAR test was covered by B25 / B66 / B26 / B12 / B41 / B48; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to May 2017 TCB workshop, for 16QAM and 64QAM, 256QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 256QAM, 64QAM and 16QAM signal modulation are correct.


16QAM

64QAM

256QAM

< TDD LTE SAR Measurement >

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Base station simulator was used for LTE output power measurements and SAR testing.

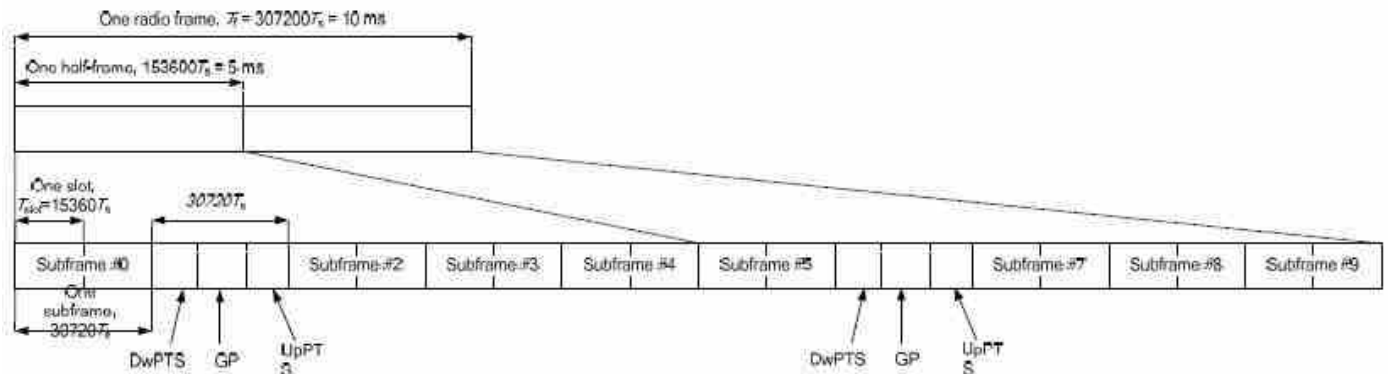


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	U	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink				Extended cyclic prefix in downlink			
	DwPTS	UpPTS			DwPTS	UpPTS		
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink			Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$		$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	
1	$19760 \cdot T_s$				$20480 \cdot T_s$			
2	$21952 \cdot T_s$				$23040 \cdot T_s$			
3	$24144 \cdot T_s$				$25600 \cdot T_s$			
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$		$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	
5	$6592 \cdot T_s$				$20480 \cdot T_s$			
6	$19760 \cdot T_s$				$23040 \cdot T_s$			
7	$21952 \cdot T_s$				$12800 \cdot T_s$			
8	$24144 \cdot T_s$				-			-
9	$13168 \cdot T_s$				-			-

Special subframe (30720·T _s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~4	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T _s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

For LTE TDD Power class 2

- Uplink-downlink configuration: 1. In a half-frame consisted of 5 subframes, uplink operation is in 2 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(2+0.167)/5 = 43.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(2+0.143)/5 = 42.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $43.3\%/42.9\% = 1.009$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

For LTE TDD Power class 3

- Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

The device can adjust uplink/downlink configuration automatically according to the transmitting power class level, as followings:

LTE TDD Band	Power Class level	support uplink/downlink configuration
LTE Band 41	> 23	1,2,3,4,5
	=23	0,1,2,3,4,5,6
	< 23	0,1,2,3,4,5,6

<LTE Carrier Aggregation>

The detailed LTE Carrier Aggregation conducted power table can refer to Appendix F.

General Note:

1. Per Oct. 2024 TCB workshop, the downlink (DL) pertains to receiver functionality, thus it is not related to RF exposure compliance limits related to cumulative effects of different transmitters.
2. Per Oct. 2024 TCB workshop, equipment authorization applications shall refer to the worst-case UL powers resulting from all the possible modes of operations. Accordingly, CA-DL cases do not need to be analyzed separately, unless pertinent to establishing UL power setting.
3. Per Oct. 2024 TCB workshop, Manufacturer declares that TX power measurement for multiple DL CA configurations is deemed not required as the DL CA has no impact on the TX power according to preliminary scan. TX power measured in LTE standalone operation represents the worst case.
4. This device supports LTE carrier aggregation in the downlink. All uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation			
Intra-band	Main Antenna Tx	ASDiv-1 Tx	ASDiv-2 Tx	ASDiv-3 Tx
CA_2C	Ant3	Ant2	Ant4	Ant0
CA_5B	Ant0	Ant1	/	/
CA_7C	Ant3	Ant2	Ant4	Ant0
CA_38C	Ant3	Ant2	Ant4	Ant0
CA_41C	Ant3	Ant2	Ant4	Ant0
CA_42C	Ant8	Ant4	Ant2	Ant0
CA_48B	Ant8	Ant4	Ant2	Ant0
CA_48C	Ant8	Ant4	Ant2	Ant0
CA_66C	Ant3	Ant2	Ant4	Ant0

<Intra-band>

General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B2/5/7/38/41/42/48 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iii. Additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.
- iv. LTE CA_48B test was covered by CA_48C; therefore, SAR was only assessed for CA_48C.

**<Inter-band CA Configuration>**

LTE Inter Band UL CA	PCC ANT	SCC ANT
CA_12A-66A	Ant0	Ant3/Ant4
	Ant0	Ant2
	Ant1	Ant3/Ant4
	Ant1	Ant2/Ant0
CA_13A-66A	Ant0	Ant3/Ant4
	Ant0	Ant2
	Ant1	Ant3/Ant4
	Ant1	Ant2/Ant0
CA_14A-66A	Ant0	Ant3/Ant4
	Ant0	Ant2
	Ant1	Ant3/Ant4
	Ant1	Ant2/Ant0
CA_25A-26A	Ant3/Ant4	Ant0
	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_2A-12A	Ant3/Ant4	Ant0
	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_2A-13A	Ant3/Ant4	Ant0
	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_2A-14A	Ant3/Ant4	Ant0
	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_2A-4A	Ant3/Ant4	Ant2/Ant0
	Ant2/Ant0	Ant3/Ant4
CA_2A-5A	Ant3/Ant4	Ant0
	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_2A-66A	Ant3/Ant4	Ant2/Ant0
	Ant2/Ant0	Ant3/Ant4
CA_2A-71A	Ant3/Ant4	Ant0
	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_2A-7A	Ant3/Ant4	Ant2/Ant0
	Ant2/Ant0	Ant3/Ant4
CA_4A-12A	Ant3/Ant4	Ant0
	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_4A-13A	Ant3/Ant4	Ant0
	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_4A-5A	Ant3/Ant4	Ant0

	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_4A-7A	Ant3/Ant4	Ant2/Ant0
	Ant2/Ant0	Ant3/Ant4
CA_5A-66A	Ant0	Ant3/Ant4
	Ant0	Ant2
	Ant1	Ant3/Ant4
	Ant1	Ant2/Ant0
CA_5A-7A	Ant0	Ant3/Ant4
	Ant0	Ant2
	Ant1	Ant3/Ant4
	Ant1	Ant2/Ant0
CA_7A-26A	Ant3/Ant4	Ant0
	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_7A-66A	Ant3/Ant4	Ant2/Ant0
	Ant2/Ant0	Ant3/Ant4

General Note:

1. The single carrier of inter band CA uplink power level is the same as Non-CA standalone LTE power level.
2. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window. To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.
3. For LTE inter-band CA mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure between two LTE bands. Smart Transmit algorithm controls the total RF exposure base on LTE inter CA bands to not exceed FCC limit.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n7/n25/n26/n38/n41/n48/n66 /n71/n77/n78 is NSA mode.
2. 5G NR n2/n5/n7/n12/n13/n14/n25/n26/n38/n41/n48/n66 /n71/n77/n78 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s QPSK and the reported SAR for the DFT-s QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. For 5G NR n41/n77/n78 HPUE, 5G NR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
5. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
6. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
7. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
8. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
9. For NR inter-band CA mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure between two NR bands. Smart Transmit algorithm controls the total RF exposure base on NR inter band ULCA bands to not exceed FCC limit.
10. 5G NR n2/n7/n25/n41/n48 /n66/n77/n78 supports UL MIMO. If UL MIMO antenna operating on different antenna groups, therefore TAS validation is not required. And if MIMO antennas are in the same AGs, MIMO SAR base on standalone SAR summed together as MIMO SAR, the detail analysis results please referred to section 16.

< 3GPP 38.101 MPR >
Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0^2
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5	≤ 2.5	
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

<EN-DC combination>

ENDC mode	LTE ANT	NR ANT
DC_12A_n25A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
DC_12A_n2A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
DC_12A_n41A	Ant0/Ant1	Ant3/Ant4
	Ant0	Ant2
	Ant1	Ant2/Ant0
DC_12A_n66A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
DC_12A_n77A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
DC_12A_n78A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
DC_13A_n2A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
DC_13A_n66A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
DC_13A_n77A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
DC_13A_n78A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
DC_14A_n2A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
DC_14A_n66A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2

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DC_14A_n77A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
DC_25A_n41A	Ant3/Ant4	Ant2/Ant0
	Ant2/Ant0	Ant3/Ant4
DC_25A_n77A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
DC_25A_n78A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
DC_2A_n38A	Ant3/Ant4	Ant2/Ant0
	Ant2/Ant0	Ant3/Ant4
DC_2A_n41A	Ant3/Ant4	Ant2/Ant0
	Ant2/Ant0	Ant3/Ant4
DC_2A_n5A	Ant3/Ant4	Ant0/Ant1
	Ant2	Ant0/Ant1
	Ant0	Ant1
DC_2A_n66A	Ant3/Ant4	Ant2
	Ant2/Ant0	Ant3
DC_2A_n71A	Ant3/Ant4	Ant0/Ant1
	Ant2	Ant0/Ant1
	Ant0	Ant1
DC_2A_n77A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
DC_2A_n78A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
DC_2A_n7A	Ant3/Ant4	Ant2/Ant0
	Ant2/Ant0	Ant3/Ant4
DC_38A_n78A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
DC_41A_n77A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
DC_41A_n78A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
DC_48A_n2A	Ant8/Ant2	Ant3
	Ant4/Ant6	Ant2
DC_48A_n5A	Ant8/Ant2	Ant0/Ant1
	Ant4/Ant6	Ant0/Ant1
DC_48A_n66A	Ant8/Ant2	Ant3
	Ant4/Ant6	Ant2
DC_48A_n71A	Ant8/Ant2	Ant0/Ant1
	Ant4/Ant6	Ant0/Ant1
DC_4A_n2A	Ant3/Ant4	Ant2
	Ant2/Ant0	Ant3

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DC_4A_n41A	Ant3/Ant4	Ant2/Ant0
	Ant2/Ant0	Ant3/Ant4
DC_4A_n5A	Ant3/Ant4	Ant0/Ant1
	Ant2	Ant0/Ant1
DC_4A_n78A	Ant0	Ant1
	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
DC_4A_n7A	Ant0	Ant8/Ant2
	Ant3/Ant4	Ant2/Ant0
DC_5A_n2A	Ant2/Ant0	Ant3/Ant4
	Ant0/Ant1	Ant3
DC_5A_n66A	Ant0/Ant1	Ant2
	Ant0/Ant1	Ant3
DC_66A_n25A	Ant0/Ant1	Ant2
	Ant3/Ant4	Ant2
DC_66A_n2A	Ant2/Ant0	Ant3
	Ant3/Ant4	Ant2
DC_66A_n38A	Ant2/Ant0	Ant3
	Ant3/Ant4	Ant2/Ant0
DC_66A_n41A	Ant2/Ant0	Ant3/Ant4
	Ant3/Ant4	Ant2/Ant0
DC_66A_n5A	Ant0/Ant1	Ant3/Ant4
	Ant2	Ant0/Ant1
	Ant0	Ant1
DC_66A_n71A	Ant3/Ant4	Ant0/Ant1
	Ant2	Ant0/Ant1
	Ant0	Ant1
DC_66A_n77A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
DC_66A_n78A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
DC_66A_n7A	Ant3/Ant4	Ant2/Ant0
	Ant2/Ant0	Ant3/Ant4
DC_71A_n2A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
DC_71A_n41A	Ant0/Ant1	Ant3/Ant4
	Ant0	Ant2
	Ant1	Ant2/Ant0
DC_71A_n48A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
DC_71A_n66A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
DC_71A_n77A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
DC_71A_n78A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
DC_7A_n25A	Ant3/Ant4	Ant2
	Ant2/Ant0	Ant3
DC_7A_n26A	Ant3/Ant4	Ant0/Ant1
	Ant2	Ant0/Ant1



	Ant0	Ant1
DC_7A_n2A	Ant3/Ant4	Ant2
	Ant2/Ant0	Ant3
DC_7A_n5A	Ant3/Ant4	Ant0/Ant1
	Ant2	Ant0/Ant1
DC_7A_n66A	Ant0	Ant1
	Ant3/Ant4	Ant2
DC_7A_n71A	Ant2/Ant0	Ant3
	Ant3/Ant4	Ant0/Ant1
DC_7A_n77A	Ant2	Ant0/Ant1
	Ant0	Ant1
DC_7A_n78A	Ant3	Ant4/Ant6
	Ant4	Ant6
DC_7A_n78A	Ant2	Ant8
	Ant0	Ant8/Ant2
DC_7A_n78A	Ant3	Ant4/Ant6
	Ant4	Ant6
DC_7A_n78A	Ant2	Ant8
	Ant0	Ant8/Ant2

Inter-Band CA Configuration:

NR UL CA mode	NR ANT	NR ANT
CA_n13A-n66A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
CA_n13A-n77A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
CA_n14A-n66A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
CA_n14A-n77A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
CA_n25A-n38A	Ant3	Ant2/Ant0
	Ant2	Ant3/Ant4
CA_n25A-n41A	Ant3	Ant2/Ant0
	Ant2	Ant3/Ant4
CA_n25A-n48A	Ant3	Ant4/Ant6
	Ant2	Ant8
CA_n25A-n66A	Ant3	Ant2
	Ant2	Ant3
CA_n25A-n71A	Ant3	Ant0/Ant1
	Ant2	Ant0/Ant1
CA_n25A-n77A	Ant3	Ant4/Ant6
	Ant2	Ant8
CA_n25A-n78A	Ant3	Ant4/Ant6
	Ant2	Ant8
CA_n26A-n78A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
CA_n2A-n14A	Ant3	Ant0/Ant1
	Ant2	Ant0/Ant1
CA_n2A-n41A	Ant3	Ant2/Ant0
	Ant2	Ant3/Ant4
CA_n2A-n48A	Ant3	Ant4/Ant6
	Ant2	Ant8
CA_n2A-n5A	Ant3	Ant0/Ant1
	Ant2	Ant0/Ant1
CA_n2A-n66A	Ant3	Ant2



	Ant2	Ant3
CA_n2A-n77A	Ant3	Ant4/Ant6
	Ant2	Ant8
CA_n2A-n78A	Ant3	Ant4/Ant6
	Ant2	Ant8
CA_n38A-n78A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
CA_n41A-n48A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
CA_n41A-n66A	Ant3/Ant4	Ant2
	Ant2/Ant0	Ant3
CA_n41A-n71A	Ant3/Ant4	Ant0
	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_n41A-n77A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
CA_n41A-n78A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
CA_n48A-n66A	Ant8	Ant2
	Ant4/Ant6	Ant3
CA_n48A-n71A	Ant8/Ant2	Ant0/Ant1
	Ant4/Ant6	Ant0/Ant1
CA_n5A-n25A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
CA_n5A-n48A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
CA_n5A-n66A	Ant0/Ant1	Ant3
	Ant0/Ant1	Ant2
CA_n5A-n77A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
CA_n5A-n78A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
CA_n5A-n7A	Ant0	Ant3/Ant4
	Ant0	Ant2
	Ant1	Ant3/Ant4
	Ant1	Ant2/Ant0
CA_n66A-n71A	Ant3	Ant0/Ant1
	Ant2	Ant0/Ant1
CA_n66A-n77A	Ant3	Ant4/Ant6
	Ant2	Ant8
CA_n66A-n78A	Ant3	Ant4/Ant6
	Ant2	Ant8
CA_n71A-n77A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
CA_n71A-n78A	Ant0/Ant1	Ant8/Ant2
	Ant0/Ant1	Ant4/Ant6
CA_n7A-n25A	Ant3/Ant4	Ant2

	Ant2/Ant0	Ant3
CA_n7A-n26A	Ant3/Ant4	Ant0
	Ant2	Ant0
	Ant3/Ant4	Ant1
	Ant2/Ant0	Ant1
CA_n7A-n66A	Ant3/Ant4	Ant2
	Ant2/Ant0	Ant3
CA_n7A-n77A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2
CA_n7A-n78A	Ant3	Ant4/Ant6
	Ant4	Ant6
	Ant2	Ant8
	Ant0	Ant8/Ant2

Intra-Band CA Configuration:

LTE Uplink CA	2CC Uplink Carrier Aggregation			
Intra-band	Main Antenna Tx	ASDiv-1 Tx	ASDiv-2 Tx	ASDiv-3 Tx
CA_n41C	Ant3	Ant2	Ant4	Ant0
CA_n77C	Ant8	Ant4	Ant2	Ant0

UL MIMO combination:

ULMIMO mode	NR ANT	NR ANT
n2	Ant3	Ant2
n7	Ant3	Ant2
	Ant4	Ant2
	Ant3	Ant0
	Ant4	Ant0
n25	Ant3	Ant2
n41	Ant3	Ant2
	Ant4	Ant2
	Ant3	Ant0
	Ant4	Ant0
n48	Ant8	Ant4
	Ant2	Ant4
	Ant8	Ant6
	Ant2	Ant6
n66	Ant3	Ant2
n77	Ant8	Ant4
	Ant2	Ant4
	Ant8	Ant6
	Ant2	Ant6
n78	Ant8	Ant4
	Ant2	Ant4
	Ant8	Ant6
	Ant2	Ant6

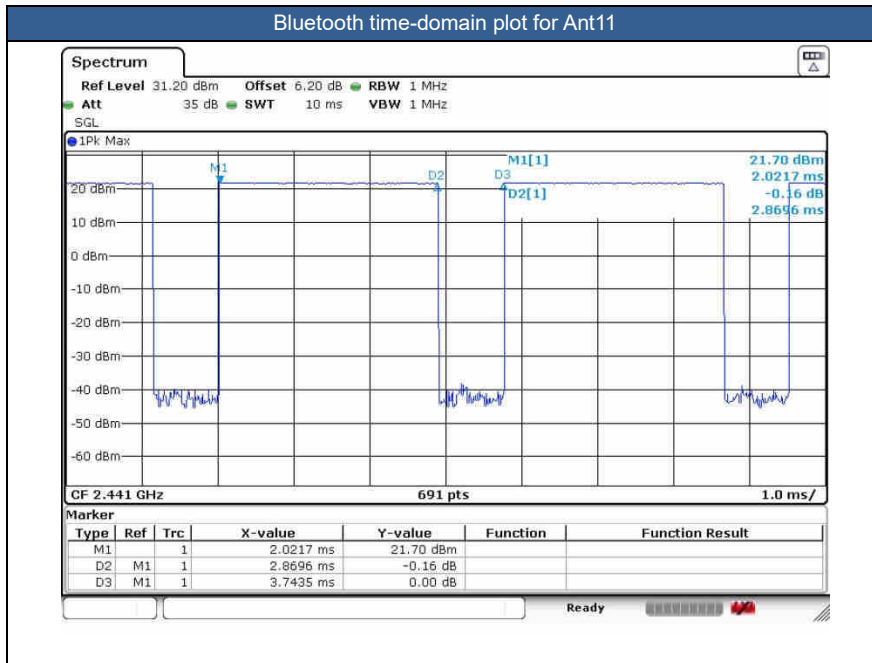
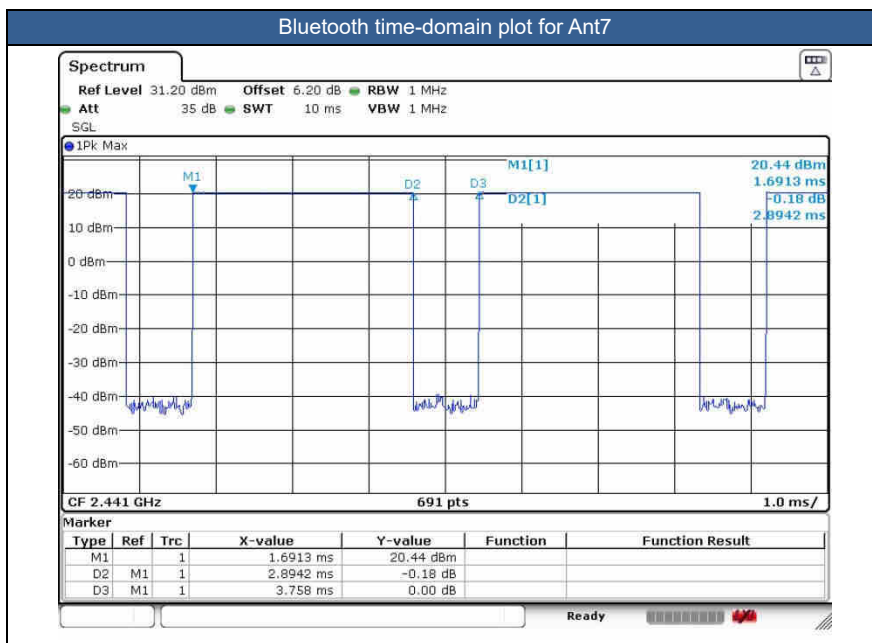
<WLAN Conducted Power>**General Note:**

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration. Additional output power measurements were not necessary.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
6. 802.11 ax/be supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.
7. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz/WLAN6GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing.
8. For the conducted power measurement is MIMO chains transmitting simultaneously and measured the separately conducted power for both chains and then based on the conducted power of two antennas respectively to calculate sum of the power for MIMO mode.

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 77.01% for ANT7, 76.66% for ANT11 as following figure, Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.





15. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

16. SAR Test Results

General Note:

1. According to section 3.3, spot check conducted power test against the variant project based on the worst-case SAR condition from the original project was performed in this filing to demonstrate the test data from original project remains representative for the variant project. Detail Conducted power measurement referred to appendix E at original report.
2. SAR spot check verification on the worst cases from the original model was performed to demonstrate the test data from original model remains representative for the variant model.
3. Per KDB 484596 D01 v03, the variant filings must demonstrate that the referenced test data remain valid for the variant device by including spot-check measurements that meet the following criteria:

- a. Operating in linear units, the relative difference (expressed as a percentage) between the TER of the variant (TER_V) and that of the parent model used as a reference (TER_R) is defined as

$$DTE_R = | TER_V - TER_R | / TER_R \quad (5)$$

and the acceptance criterion for the spot-check on the variant will be:

$$d_{TER} \leq d_{TERmax} \quad (6)$$

where d_{TERmax} , to be defined further below, is the maximum acceptable d_{TER} , and all the quantities are expressed in linear units.

- b. The maximum d_{TER} allowed for the spot-check to be deemed acceptable, is established based on the compliance margin M corresponding to the worst-case test scenario (i.e., the most challenging from the compliance perspective) for the parent model. The margin M is defined as

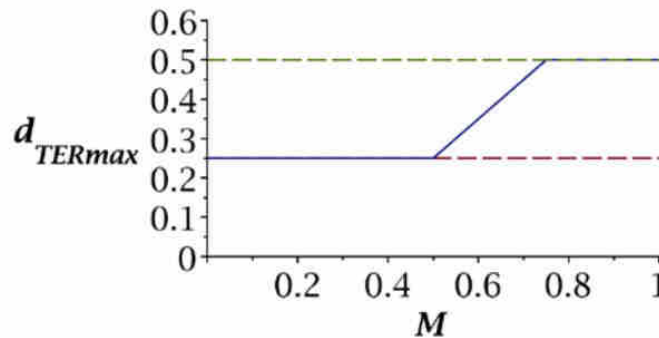
$$M = | TER_T - TER_R = 1 - TER_R \quad (7)$$

where TER_T is the TER corresponding to the compliance threshold, which is always $TER_T = 1$.

- c. The threshold d_{TERmax} is defined as function of the margin M to provide values between 25% and 50%, linearly increasing between $M = 0.5$ (50% of the compliance limit) and $M = 0.75$ (75% of the compliance limit), in accordance with the following expression:

$$d_{TERmax}(M) = \begin{cases} 0.25 & , \text{ for } 0 \leq M < 0.5 \\ M - 0.25 & , \text{ for } 0.5 \leq M < 0.75 \\ 0.5 & , \text{ for } 0.75 \leq M \end{cases} \quad (8)$$

and the following Figure shows a plot of $d_{TERmax}(M)$.



The piecewise linear function for $d_{TERmax}(M)$ in (8), which represents the maximum allowed d_{TER} , is the relative difference between the variant and parent model as defined by eq.

(6). The spot-check is considered acceptable when the d_{TER} is below the curve $d_{TERmax}(M)$.

4. The spot check results showed that the deviation of the SAR results all are met $d_{TER} < d_{TERmax}(M)$, thus the spot-check yields an acceptable condition.

**General Note:**

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
 - d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - e. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - f. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
 - g. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements the power management, Hall sensor and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
5. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
6. Per KDB648474 D04v01r03, this device is considered a "phablet" when it is in a closed configuration since the display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm and less than 200mm, 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, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM1900, WCDMA Band II/IV/V, LTE Band 2/4/5/7/25/26/38/41/66/42/43/48, 5GNR n2/n7/n25/n66/n38/n41/n48/n77/n78 and WLAN 2.4GHz/WLAN 5.2/5.8GHz therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5/6GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
7. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.
8. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
9. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
10. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive

hand use exposure conditions.

11. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors.
12. Per October 2020 TCB Workshop Interim procedures, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02.
13. Absorbed power density (APD) using a 4cm^2 averaging area is reported based on SAR measurements.
14. Per October 2022 TCB Workshop, IPD and SAR test frequencies for 5.85-7.125 GHz portable devices, continue with adapt and apply conducted power-based channel picks and test reduction procedures of KDB 248227 (v02r02), also in case of 320 MHz (pre-802.11be).
15. For testing the WLAN 6GHz of this DUT, the selection of test channels was based on FCC guidance, with five channels selected across the entire WLAN 6GHz Bands.
16. The EUT has two work states, flip open and flip close, SAR testing have been evaluated two states. For head / body-worn / hotspot / extremity mode, only flip close configuration is performed SAR testing.
17. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "tablet" when it is in a flip open configuration since the diagonal dimension is greater than 160mm and more than 200mm. Therefore, tablet SAR tests with 1g SAR are required at a test separation distances of 0 mm.
18. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. Further simplification chose the worse SAR value and the worst scaling factor from each transmit chain perform reported SAR calculation conservatively. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.
19. Since the EUT's rear camera is protruding and multiple transmitting antennas are distributed in various positions of the mobile phone, different reference surfaces are used for each antenna: a 5 mm separation for body testing and a 0 mm separation for extremity testing. For more details, refer to the test photos.

GSM Note:

- Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
- Other configurations of GSM / GPRS / EDGE are considered as secondary modes. Both primary and secondary modes must be in the same frequency band. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

WCDMA Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B17 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B2 / B4 / B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - e. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - f. For 5G FR1 n2/n5/n7/n25/n26/n66/n38/n41/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required 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.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions /

configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

Power Density General Notes:

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements.
3. Absorbed power density (APD) using a 4cm^2 averaging area is reported based on SAR measurements.
4. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
6. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty $> 30\%$. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
7. Per April 2021 TCB Workshop and KDB 388624 D02v18r08, or the highest SAR test configurations, incident power density (total) was also measured using the power-density reconstruction method in the measurement planes closest to the device: 2 mm for head/body/extremity and 5 mm for body-worn.
8. Per October 2020 TCB Workshop, PTP-PR algorithm was used during psPD measurement and calculations.
9. When it is in flip close configuration since this device is considered a phablet and there is no different PD limit on different exposure conditions, therefore select highest phablet SAR at 0 mm test distance and configurations evaluate power density. Since there is no different PD limit on different exposure conditions, therefore the PD test was performed at the required separation distance between Probe sensor and EUT surface to cover Head exposure conditions (Front) at head power level and other exposure conditions at their corresponding power levels of Phone, with distances assigned per condition.
10. When it is in flip open configuration, the PD test was performed of a 2mm separation between Probe sensor and EUT surface.
11. The measurement procedure consists of measuring the PD_{inc} at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD_n fulfill the criterion described below. Since iPD ratio between the two distances is $\geq -1\text{dB}$, the grid step (0.0625) was sufficient for determining compliance at $d=2\text{mm}$.

$$10 \cdot \log_{10} \frac{iPD_n(2\text{mm})}{iPD_n(\lambda/5)} \geq -1$$

DSI status description:

The device has the following DSI state which used at different exposure condition.

This WWAN/WLAN/BT bands enabled with Qualcomm Smart Transmit feature which located at chapter 5. The default power is Pmax power, When Plimit power higher than Pmax power, the output power will be limited at Pmax, and so the SAR will use Pmax power to do the testing.

Exposure Condition	DSI	EUT Flip State	Trigger conditions
Head	DSI 2	Flip Close	Earpiece On
Body worn	DSI 3	Flip Close	Sensor On
Body	DSI 12	Flip Open	Sensor On
Extremity	DSI 6	Flip Close	Sensor On
Hotspot	DSI 7	Flip Close	Hotspot on
Body/ Body Worn / Extremity / Sensor Off	DSI 4	Flip Open/Flip Close	Sensor Off

**16.1 Head SAR**

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900	GPRS 3 Tx slots	Right Cheek	0mm	Ant 3	DSI 2	Close	661	1880	25.36	26.50	1.3	-0.08	0.608	0.790
	GSM1900	GPRS 3 Tx slots	Right Tilted	0mm	Ant 3	DSI 2	Close	661	1880	25.36	26.50	1.3	-0.02	0.705	0.917
	GSM1900	GPRS 3 Tx slots	Right Tilted	0mm	Ant 3	DSI 2	Close	512	1850.2	25.04	26.50	1.4	0.05	0.627	0.878
	GSM1900	GPRS 3 Tx slots	Right Tilted	0mm	Ant 3	DSI 2	Close	810	1909.8	25.00	26.50	1.413	0.11	0.635	0.897
	GSM1900	GPRS 3 Tx slots	Left Cheek	0mm	Ant 3	DSI 2	Close	661	1880	25.36	26.50	1.3	-0.14	0.611	0.794
01	GSM1900	GPRS 3 Tx slots	Left Tilted	0mm	Ant 3	DSI 2	Close	661	1880	25.36	26.50	1.3	-0.01	0.809	1.052
	GSM1900	GPRS 3 Tx slots	Left Tilted	0mm	Ant 3	DSI 2	Close	512	1850.2	25.04	26.50	1.4	-0.06	0.721	1.009
	GSM1900	GPRS 3 Tx slots	Left Tilted	0mm	Ant 3	DSI 2	Close	810	1909.8	25.00	26.50	1.413	0.08	0.719	1.016
	GSM1900	GPRS 3 Tx slots	Right Cheek	0mm	Ant 4	DSI 2	Close	661	1880	24.25	25.00	1.189	-0.11	0.146	0.174
	GSM1900	GPRS 3 Tx slots	Right Tilted	0mm	Ant 4	DSI 2	Close	661	1880	24.25	25.00	1.189	0.10	0.122	0.145
	GSM1900	GPRS 3 Tx slots	Left Cheek	0mm	Ant 4	DSI 2	Close	661	1880	24.25	25.00	1.189	-0.06	0.333	0.396
	GSM1900	GPRS 3 Tx slots	Left Tilted	0mm	Ant 4	DSI 2	Close	661	1880	24.25	25.00	1.189	-0.05	0.252	0.300

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 2	Close	9400	1880	21.06	21.70	1.159	0.18	0.849	0.984
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 2	Close	9262	1852.4	21.02	21.70	1.169	-0.04	0.709	0.829
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 2	Close	9538	1907.6	20.98	21.70	1.18	-0.19	0.661	0.780
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 3	DSI 2	Close	9400	1880	21.06	21.70	1.159	0.12	1.050	1.217
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 3	DSI 2	Close	9262	1852.4	21.02	21.70	1.169	-0.15	0.854	0.998
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 3	DSI 2	Close	9538	1907.6	20.98	21.70	1.18	0.06	0.757	0.893
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	DSI 2	Close	9400	1880	21.06	21.70	1.159	0.13	0.825	0.956
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	DSI 2	Close	9262	1852.4	21.02	21.70	1.169	0.07	0.661	0.773
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	DSI 2	Close	9538	1907.6	20.98	21.70	1.18	0.15	0.719	0.848
02	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 3	DSI 2	Close	9400	1880	21.06	21.70	1.159	-0.02	1.100	1.275
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 3	DSI 2	Close	9262	1852.4	21.02	21.70	1.169	0.05	0.868	1.015
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 3	DSI 2	Close	9538	1907.6	20.98	21.70	1.18	-0.03	0.878	1.036
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	DSI 2	Close	9400	1880	22.74	24.00	1.337	0.12	0.206	0.275
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	DSI 2	Close	9400	1880	22.74	24.00	1.337	-0.12	0.178	0.238
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	DSI 2	Close	9400	1880	22.74	24.00	1.337	-0.11	0.525	0.702
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 4	DSI 2	Close	9400	1880	22.74	24.00	1.337	0.08	0.375	0.501
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 2	Close	1413	1732.6	19.57	20.00	1.104	0.09	0.804	0.888
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 2	Close	1312	1712.4	19.52	20.00	1.117	-0.02	0.682	0.762
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 2	Close	1513	1752.6	19.56	20.00	1.107	0.05	0.903	1.000
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 3	DSI 2	Close	1413	1732.6	19.57	20.00	1.104	0.13	1.040	1.148
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 3	DSI 2	Close	1312	1712.4	19.52	20.00	1.117	-0.04	0.853	0.953
03	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 3	DSI 2	Close	1513	1752.6	19.56	20.00	1.107	0.01	1.150	1.273
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	DSI 2	Close	1413	1732.6	19.57	20.00	1.104	-0.11	0.858	0.947
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	DSI 2	Close	1312	1712.4	19.52	20.00	1.117	0.18	0.692	0.773
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	DSI 2	Close	1513	1752.6	19.56	20.00	1.107	0.06	0.935	1.035
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 3	DSI 2	Close	1413	1732.6	19.57	20.00	1.104	-0.17	0.707	0.781
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	DSI 2	Close	1413	1732.6	22.76	24.00	1.33	-0.04	0.325	0.432
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	DSI 2	Close	1413	1732.6	22.76	24.00	1.33	0.12	0.189	0.251
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	DSI 2	Close	1413	1732.6	22.76	24.00	1.33	-0.18	0.749	0.996
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	DSI 2	Close	1312	1712.4	22.73	24.00	1.34	-0.16	0.706	0.946
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	DSI 2	Close	1513	1752.6	22.72	24.00	1.343	-0.15	0.700	0.940
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 4	DSI 2	Close	1413	1732.6	22.76	24.00	1.33	0.14	0.361	0.480

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	21100	2535	16.42	17.70	1.343			0.01	0.585	0.786
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	21100	2535	16.39	17.70	1.352			-0.11	0.567	0.767
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	21100	2535	16.42	17.70	1.343			0.00	0.914	1.228
	LTE Band 7	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	20850	2510	16.39	17.70	1.352			0.00	0.841	1.137
	LTE Band 7	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	21350	2560	16.33	17.70	1.371			-0.03	0.890	1.220
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	21100	2535	16.39	17.70	1.352			0.13	0.903	1.221
	LTE Band 7	20	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	20850	2510	16.38	17.70	1.355			0.00	0.825	1.118



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	LTE Band 7	20	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	21350	2560	16.38	17.70	1.355			0.12	0.879	1.191
	LTE Band 7	20	QPSK	100	0	Right Tilted	0mm	Ant 3	DSI 2	Close	21100	2535	16.36	17.70	1.361			-0.13	0.860	1.170
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 2	Close	21100	2535	16.42	17.70	1.343			0.02	0.785	1.054
	LTE Band 7	20	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 2	Close	20850	2510	16.39	17.70	1.352			0.02	0.716	0.968
	LTE Band 7	20	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 2	Close	21350	2560	16.33	17.70	1.371			0.10	0.764	1.047
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 2	Close	21100	2535	16.39	17.70	1.352			-0.12	0.769	1.040
	LTE Band 7	20	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 2	Close	20850	2510	16.38	17.70	1.355			0.18	0.690	0.935
	LTE Band 7	20	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 2	Close	21350	2560	16.38	17.70	1.355			0.03	0.765	1.037
	LTE Band 7	20	QPSK	100	0	Left Cheek	0mm	Ant 3	DSI 2	Close	21100	2535	16.36	17.70	1.361			-0.02	0.625	0.851
04	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	21100	2535	16.42	17.70	1.343			0.01	0.961	1.291
	LTE Band 7	20	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	20850	2510	16.39	17.70	1.352			0.03	0.869	1.175
	LTE Band 7	20	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	21350	2560	16.33	17.70	1.371			-0.11	0.938	1.286
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	21100	2535	16.39	17.70	1.352			-0.01	0.945	1.278
	LTE Band 7	20	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	20850	2510	16.38	17.70	1.355			-0.10	0.852	1.154
	LTE Band 7	20	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	21350	2560	16.38	17.70	1.355			0.00	0.940	1.274
	LTE Band 7	20	QPSK	100	0	Left Tilted	0mm	Ant 3	DSI 2	Close	21100	2535	16.36	17.70	1.361			0.18	0.926	1.260
	LTE Band 7	20M	QPSK	1	99	Left Tilted	0mm	Ant 3	DSI 2	Close	21100+21298	2535+2554.8	16.35	17.70	1.365			0.03	0.941	1.284
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	DSI 2	Close	21100	2535	21.95	23.00	1.274			0.08	0.192	0.245
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2	Close	21100	2535	20.98	22.00	1.265			-0.10	0.134	0.170
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	DSI 2	Close	21100	2535	21.95	23.00	1.274			-0.03	0.341	0.434
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	DSI 2	Close	21100	2535	20.98	22.00	1.265			0.07	0.239	0.302
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	DSI 2	Close	21100	2535	21.95	23.00	1.274			-0.01	0.490	0.624
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	DSI 2	Close	21100	2535	20.98	22.00	1.265			-0.04	0.340	0.430
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	DSI 2	Close	21100	2535	21.95	23.00	1.274			-0.01	0.322	0.410
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	DSI 2	Close	21100	2535	20.98	22.00	1.265			0.06	0.231	0.292
	LTE Band 7	20M	QPSK	1	99	Left Cheek	0mm	Ant 4	DSI 2	Close	21100+21298	2535+2554.8	21.92	23.00	1.282			0.03	0.456	0.585
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	26340	1880	20.75	22.00	1.334			0.05	0.633	0.844
	LTE Band 25	20	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	26140	1860	20.67	22.00	1.358			-0.10	0.568	0.771
	LTE Band 25	20	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	26590	1905	20.69	22.00	1.352			0.18	0.506	0.684
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	26340	1880	20.62	22.00	1.374			0.00	0.605	0.831
	LTE Band 25	20	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	26140	1860	20.58	22.00	1.387			0.12	0.543	0.753
	LTE Band 25	20	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	26590	1905	20.54	22.00	1.4			0.11	0.469	0.657
	LTE Band 25	20	QPSK	100	0	Right Cheek	0mm	Ant 3	DSI 2	Close	26340	1880	20.53	22.00	1.403			0.00	0.502	0.704
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	26340	1880	20.75	22.00	1.334			0.12	0.753	1.005
	LTE Band 25	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	26140	1860	20.67	22.00	1.358			0.04	0.687	0.933
	LTE Band 25	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	26590	1905	20.69	22.00	1.352			-0.19	0.605	0.818
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	26340	1880	20.62	22.00	1.374			0.05	0.720	0.989
	LTE Band 25	20	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	26140	1860	20.58	22.00	1.387			-0.17	0.666	0.924
	LTE Band 25	20	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	26590	1905	20.54	22.00	1.4			0.07	0.588	0.823
	LTE Band 25	20	QPSK	100	0	Right Tilted	0mm	Ant 3	DSI 2	Close	26340	1880	20.53	22.00	1.403			0.00	0.605	0.849
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 2	Close	26340	1880	20.75	22.00	1.334			0.01	0.596	0.795
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 2	Close	26340	1880	20.62	22.00	1.374			0.02	0.568	0.780
05	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	26340	1880	20.75	22.00	1.334			0.02	0.802	1.070
	LTE Band 25	20	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	26140	1860	20.67	22.00	1.358			0.12	0.695	0.944
	LTE Band 25	20	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	26590	1905	20.69	22.00	1.352			0.12	0.687	0.929
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	26340	1880	20.62	22.00	1.374			0.19	0.773	1.062
	LTE Band 25	20	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	26140	1860	20.58	22.00	1.387			-0.05	0.662	0.918
	LTE Band 25	20	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	26590	1905	20.54	22.00	1.4			0.04	0.646	0.904
	LTE Band 25	20	QPSK	100	0	Left Tilted	0mm	Ant 3	DSI 2	Close	26340	1880	20.53	22.00	1.403			0.19	0.740	1.038
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	DSI 2	Close	26340	1880	21.67	23.00	1.358			0.01	0.234	0.318
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2	Close	26340	1880	20.68	22.00	1.355			0.15	0.188	0.255
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	DSI 2	Close	26340	1880	21.67	23.00	1.358			-0.03	0.224	0.304
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	DSI 2	Close	26340	1880	20.68	22.00	1.355			0.04	0.180	0.244
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	DSI 2	Close	26340	1880	21.67	23.00	1.358			0.10	0.760	1.032
	LTE Band 25	20	QPSK	1	0	Left Cheek	0mm	Ant 4	DSI 2	Close	26140	1860	21.65	23.00	1.365			0.12	0.654	0.893
	LTE Band 25	20	QPSK	1	0	Left Cheek	0mm	Ant 4	DSI 2	Close	26590	1905	21.62	23.00	1.374			-0.08	0.648	0.890
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	DSI 2	Close	26340	1880	20.68	22.00	1.355			-0.03	0.628	0.851
	LTE Band 25	20	QPSK	50	0	Left Cheek	0mm	Ant 4	DSI 2	Close	26140	1860	20.60	22.00	1.38			0.11	0.611	0.843
	LTE Band 25	20	QPSK	50	0	Left Cheek	0mm	Ant 4	DSI 2	Close	26590	1905	20.63	22.00	1.371			0.17	0.599	0.821
	LTE Band 25	20	QPSK	100	0	Left Cheek	0mm	Ant 4	DSI 2	Close	26340	1880	20.65	22.00	1.365			0.09	0.558	0.762
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	DSI 2	Close	26340	1880	21.67	23.00	1.358			-0.10	0.517	0.702
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	DSI 2	Close	26340	1880	20.68	22.00	1.355			-0.12	0.424	0.575
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	132322	1745	20.53	21.50	1.25			-0.09	0.703	0.879
	LTE Band 66	20	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	132072	1720	20.40	21.50	1.288			-0.08	0.562	0.724
	LTE Band 66	20	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	132572	1770	20.47	21.50	1.268			-0.05	0.743	0.942
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	132322	1745	20.41	21.50	1.285			-0.01	0.679	0.873
	LTE Band 66	20	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	132072	1720	20.21	21.50	1.346			0.03	0.534	0.719
	LTE Band 66	20	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	132572	1770	20.20	21.50	1.349			0.06	0.667	0.900
	LTE Band 66	20	QPSK	100	0	Right Cheek	0mm	Ant 3	DSI 2	Close	132322	1745	20.25	21.50	1.334			0.09	0.631	0.842
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	132322	1745	20.53	21.50	1.25			0.01	0.871	1.089
	LTE Band 66	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	132072	1720	20.40	21.50	1.288			0.06	0.691	0.890
	LTE Band 66	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	132572	1770	20.47	21.50						



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	LTE Band 66	20	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	132572	1770	20.20	21.50	1.349			0.15	0.839	1.132
	LTE Band 66	20	QPSK	100	0	Right Tilted	0mm	Ant 3	DSI 2	Close	132322	1745	20.25	21.50	1.334			-0.04	0.779	1.039
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 2	Close	132322	1745	20.53	21.50	1.25			0.06	0.743	0.929
	LTE Band 66	20	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 2	Close	132072	1720	20.40	21.50	1.288			0.05	0.590	0.760
	LTE Band 66	20	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 2	Close	132572	1770	20.47	21.50	1.268			-0.04	0.775	0.983
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 2	Close	132322	1745	20.41	21.50	1.285			0.05	0.715	0.919
	LTE Band 66	20	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 2	Close	132072	1720	20.21	21.50	1.346			-0.04	0.550	0.740
	LTE Band 66	20	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 2	Close	132572	1770	20.20	21.50	1.349			0.11	0.719	0.970
	LTE Band 66	20	QPSK	100	0	Left Cheek	0mm	Ant 3	DSI 2	Close	132322	1745	20.25	21.50	1.334			-0.07	0.667	0.890
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	132322	1745	20.53	21.50	1.25			0.10	0.948	1.185
	LTE Band 66	20	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	132072	1720	20.40	21.50	1.288			0.18	0.735	0.947
06	LTE Band 66	20	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	132572	1770	20.47	21.50	1.268			-0.01	1.000	1.268
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	132322	1745	20.41	21.50	1.285			0.10	0.871	1.119
	LTE Band 66	20	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	132072	1720	20.21	21.50	1.346			0.13	0.675	0.909
	LTE Band 66	20	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	132572	1770	20.20	21.50	1.349			-0.10	0.912	1.230
	LTE Band 66	20	QPSK	100	0	Left Tilted	0mm	Ant 3	DSI 2	Close	132322	1745	20.25	21.50	1.334			0.19	0.863	1.151
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	132572+132374	1770+1750.2	20.28	21.50	1.324			0.03	0.925	1.225
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	DSI 2	Close	132322	1745	21.70	23.00	1.349			-0.14	0.303	0.409
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2	Close	132322	1745	20.69	22.00	1.352			-0.10	0.241	0.326
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	DSI 2	Close	132322	1745	21.70	23.00	1.349			0.18	0.183	0.247
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	DSI 2	Close	132322	1745	20.69	22.00	1.352			0.09	0.144	0.195
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	DSI 2	Close	132322	1745	21.70	23.00	1.349			-0.07	0.674	0.909
	LTE Band 66	20	QPSK	1	0	Left Cheek	0mm	Ant 4	DSI 2	Close	132072	1720	21.69	23.00	1.352			-0.19	0.641	0.867
	LTE Band 66	20	QPSK	1	0	Left Cheek	0mm	Ant 4	DSI 2	Close	132572	1770	21.65	23.00	1.365			-0.11	0.616	0.841
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	DSI 2	Close	132322	1745	20.69	22.00	1.352			-0.06	0.531	0.718
	LTE Band 66	20	QPSK	100	0	Left Cheek	0mm	Ant 4	DSI 2	Close	132322	1745	20.63	22.00	1.371			-0.06	0.595	0.816
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	DSI 2	Close	132322	1745	21.70	23.00	1.349			0.11	0.338	0.456
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	DSI 2	Close	132322	1745	20.69	22.00	1.352			-0.13	0.264	0.357
	LTE Band 66	20M	QPSK	1	99	Left Cheek	0mm	Ant 4	DSI 2	Close	132322+132520	1745+1764.8	21.68	23.00	1.355			0.00	0.551	0.747
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	40620	2593	17.62	18.60	1.253	62.9	1.006	0.02	0.489	0.616
	LTE Band 41	20	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	39750	2506	17.55	18.60	1.274	62.9	1.006	0.02	0.443	0.568
	LTE Band 41	20	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	40185	2549.5	17.59	18.60	1.262	62.9	1.006	0.01	0.678	0.861
	LTE Band 41	20	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	41055	2636.5	17.59	18.60	1.262	62.9	1.006	-0.01	0.489	0.621
	LTE Band 41	20	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 2	Close	41490	2680	17.51	18.60	1.285	62.9	1.006	-0.06	0.543	0.702
	LTE Band 41	20	QPSK	100	0	Right Cheek	0mm	Ant 3	DSI 2	Close	40620	2593	17.50	18.60	1.288	62.9	1.006	0.01	0.466	0.604
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	40620	2593	17.53	18.60	1.279	62.9	1.006	0.08	0.473	0.609
	LTE Band 41	20	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	39750	2506	17.41	18.60	1.315	62.9	1.006	-0.13	0.420	0.556
	LTE Band 41	20	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	40185	2549.5	17.44	18.60	1.306	62.9	1.006	-0.18	0.635	0.834
	LTE Band 41	20	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	41055	2636.5	17.51	18.60	1.285	62.9	1.006	-0.14	0.468	0.605
	LTE Band 41	20	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 2	Close	41490	2680	17.47	18.60	1.297	62.9	1.006	0.05	0.536	0.699
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	40620	2593	17.62	18.60	1.253	62.9	1.006	-0.16	0.595	0.750
	LTE Band 41	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	39750	2506	17.55	18.60	1.274	62.9	1.006	-0.11	0.528	0.677
07	LTE Band 41	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	40185	2549.5	17.59	18.60	1.262	62.9	1.006	0.02	0.787	0.999
	LTE Band 41	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	41055	2636.5	17.59	18.60	1.262	62.9	1.006	0.18	0.571	0.725
	LTE Band 41	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	41490	2680	17.51	18.60	1.285	62.9	1.006	0.00	0.650	0.840
	LTE Band 41	20	QPSK	100	0	Right Tilted	0mm	Ant 3	DSI 2	Close	40620	2593	17.50	18.60	1.288	62.9	1.006	0.05	0.560	0.726
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	40620	2593	17.53	18.60	1.279	62.9	1.006	0.16	0.571	0.735
	LTE Band 41	20	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	39750	2506	17.41	18.60	1.315	62.9	1.006	-0.11	0.504	0.667
	LTE Band 41	20	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	40185	2549.5	17.44	18.60	1.306	62.9	1.006	0.12	0.750	0.985
	LTE Band 41	20	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	41055	2636.5	17.51	18.60	1.285	62.9	1.006	-0.02	0.536	0.693
	LTE Band 41	20	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 2	Close	41490	2680	17.47	18.60	1.297	62.9	1.006	-0.01	0.626	0.817
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 2	Close	40620	2593	17.62	18.60	1.253	62.9	1.006	-0.19	0.451	0.568
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 2	Close	40620	2593	17.53	18.60	1.279	62.9	1.006	0.12	0.440	0.566
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	40620	2593	17.62	18.60	1.253	62.9	1.006	0.11	0.580	0.731
	LTE Band 41	20	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	39750	2506	17.55	18.60	1.274	62.9	1.006	0.00	0.504	0.646
	LTE Band 41	20	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	40185	2549.5	17.59	18.60	1.262	62.9	1.006	-0.10	0.752	0.955
	LTE Band 41	20	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	41055	2636.5	17.59	18.60	1.262	62.9	1.006	0.07	0.567	0.720
	LTE Band 41	20	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 2	Close	41490	2680	17.51	18.60	1.285	62.9	1.006	0.19	0.637	0.823
	LTE Band 41	20	QPSK	100	0	Left Tilted	0mm	Ant 3	DSI 2	Close	40620	2593	17.50	18.60	1.288	62.9	1.006	-0.04	0.552	0.715
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	40620	2593	17.53	18.60	1.279	62.9	1.006	-0.11	0.556	0.715
	LTE Band 41	20	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	39750	2506	17.41	18.60	1.315	62.9	1.006	0.06	0.480	0.635
	LTE Band 41	20	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	40185	2549.5	17.44	18.60	1.306	62.9	1.006	-0.10	0.713	0.937
	LTE Band 41	20	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	41055	2636.5	17.51	18.60	1.285	62.9	1.006	-0.12	0.538	0.695
	LTE Band 41	20	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 2	Close	41490	2680	17.47	18.60	1.297	62.9	1.006	0.07	0.617	0.805
	LTE Band 41 HPUE	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	40185	2549.5	19.44	20.20	1.191	42.9	1.009	0.03	0.742	0.892
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 3	DSI 2	Close	40185+40383	2549.5+2569.3	17.42	18.60	1.312	62.9	1.006	0.03	0.751	0.991
	LTE Band 41 HPUE	20M	QPSK	1	99	Right Tilted	0mm	Ant 3	DSI 2	Close	40185+40383	2549.5+2569.3	19.22	20.20	1.253	42.9	1.009	0.02	0.721	0.912
	LTE Band 41 HPUE	20	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 2	Close	40620	2593	19.46	20.20	1.186	42.9	1.009	0.03	0.751	0.899
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	DSI 2	Close	40620									



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	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	DSI 2	Close	40620	2593	22.05	23.00	1.245	62.9	1.006	0.01	0.402	0.503
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	DSI 2	Close	40620	2593	21.09	22.00	1.233	62.9	1.006	0.11	0.327	0.406
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	DSI 2	Close	40620	2593	22.05	23.00	1.245	62.9	1.006	-0.04	0.286	0.358
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	DSI 2	Close	40620	2593	21.09	22.00	1.233	62.9	1.006	-0.06	0.227	0.282
	LTE Band 41 HPUE	20	QPSK	1	0	Left Cheek	0mm	Ant 4	DSI 2	Close	40620	2593	24.89	26.00	1.291	42.9	1.009	0.03	0.476	0.620
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 4	DSI 2	Close	40620+40818	2593+2612.8	21.88	23.00	1.294	62.9	1.006	0.03	0.345	0.449
	LTE Band 41 HPUE	20M	QPSK	1	99	Left Cheek	0mm	Ant 4	DSI 2	Close	40620+40818	2593+2612.8	24.62	26.00	1.374	62.9	1.006	0.01	0.325	0.449
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	DSI 2	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	-0.13	0.106	0.131
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	-0.01	< 0.001	< 0.001
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	DSI 2	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	0.04	< 0.001	< 0.001
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	DSI 2	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	0.11	< 0.001	< 0.001
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	DSI 2	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	0.12	0.329	0.405
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	DSI 2	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	-0.18	0.170	0.208
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	DSI 2	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	-0.18	0.282	0.348
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	DSI 2	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	-0.09	0.150	0.183
	LTE Band 42	20M	QPSK	1	99	Left Cheek	0mm	Ant 4	DSI 2	Close	42590+42788	3500+3519.8	23.08	24.00	1.236	62.9	1.006	0.02	0.321	0.399
08	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 6	DSI 2	Close	42590	3500	22.03	23.00	1.25	62.9	1.006	0.01	0.545	0.685
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 6	DSI 2	Close	42590	3500	21.24	22.00	1.191	62.9	1.006	-0.13	0.302	0.362
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 6	DSI 2	Close	42590	3500	22.03	23.00	1.25	62.9	1.006	-0.03	0.508	0.639
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 6	DSI 2	Close	42590	3500	21.24	22.00	1.191	62.9	1.006	0.07	0.285	0.341
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI 2	Close	42590	3500	22.03	23.00	1.25	62.9	1.006	-0.14	0.455	0.572
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 6	DSI 2	Close	42590	3500	21.24	22.00	1.191	62.9	1.006	-0.11	0.263	0.315
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	DSI 2	Close	42590	3500	22.03	23.00	1.25	62.9	1.006	-0.13	0.455	0.572
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	DSI 2	Close	42590	3500	21.24	22.00	1.191	62.9	1.006	0.13	0.249	0.298
	LTE Band 42	20M	QPSK	1	99	Right Cheek	0mm	Ant 6	DSI 2	Close	42590+42788	3500+3519.8	21.98	23.00	1.265	62.9	1.006	0.03	0.512	0.652
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	Close	42590	3500	22.25	23.00	1.189	62.9	1.006	0.09	0.370	0.443
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	Close	42590	3500	21.19	22.00	1.205	62.9	1.006	0.18	0.212	0.257
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	DSI 2	Close	42590	3500	22.25	23.00	1.189	62.9	1.006	0.12	0.515	0.616
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	Close	42590	3500	21.19	22.00	1.205	62.9	1.006	0.01	0.284	0.344
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	DSI 2	Close	42590	3500	22.25	23.00	1.189	62.9	1.006	0.08	0.240	0.287
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	Close	42590	3500	21.19	22.00	1.205	62.9	1.006	0.05	0.134	0.162
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 8	DSI 2	Close	42590	3500	22.25	23.00	1.189	62.9	1.006	0.04	0.319	0.382
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	Close	42590	3500	21.19	22.00	1.205	62.9	1.006	-0.15	0.181	0.219
	LTE Band 42	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	Close	42590+42788	3500+3519.8	22.17	23.00	1.211	62.9	1.006	0.03	0.501	0.610
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	DSI 2	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	0.05	< 0.001	< 0.001
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	-0.01	< 0.001	< 0.001
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	DSI 2	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	-0.14	< 0.001	< 0.001
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	DSI 2	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	0.17	< 0.001	< 0.001
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	DSI 2	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	0.17	0.246	0.301
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	DSI 2	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	-0.10	0.212	0.258
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	DSI 2	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	-0.17	0.218	0.267
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	DSI 2	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	0.14	0.138	0.168
	LTE Band 48	20M	QPSK	1	99	Left Cheek	0mm	Ant 4	DSI 2	Close	55830+56028	3609+3628.8	23.11	24.00	1.227	62.9	1.006	0.03	0.241	0.297
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 6	DSI 2	Close	55830	3609	21.98	23.00	1.265	62.9	1.006	0.10	0.106	0.135
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 6	DSI 2	Close	55830	3609	20.81	22.00	1.315	62.9	1.006	0.05	0.101	0.134
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 6	DSI 2	Close	55830	3609	21.98	23.00	1.265	62.9	1.006	0.02	0.099	0.126
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 6	DSI 2	Close	55830	3609	20.81	22.00	1.315	62.9	1.006	-0.18	0.097	0.128
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI 2	Close	55830	3609	21.98	23.00	1.265	62.9	1.006	0.14	0.091	0.116
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 6	DSI 2	Close	55830	3609	20.81	22.00	1.315	62.9	1.006	-0.13	0.090	0.119
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	DSI 2	Close	55830	3609	21.98	23.00	1.265	62.9	1.006	0.03	0.084	0.107
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	DSI 2	Close	55830	3609	20.81	22.00	1.315	62.9	1.006	0.09	0.082	0.108
	LTE Band 48	20M	QPSK	1	99	Right Cheek	0mm	Ant 6	DSI 2	Close	55830+56028	3609+3628.8	21.76	23.00	1.33	62.9	1.006	0.02	0.098	0.131
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	Close	55830	3609	22.29	23.00	1.178	62.9	1.006	0.14	0.392	0.465
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	Close	55830	3609	21.06	22.00	1.242	62.9	1.006	0.00	0.318	0.397
09	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	DSI 2	Close	55830	3609	22.29	23.00	1.178	62.9	1.006	0.01	0.499	0.591
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	Close	55830	3609	21.06	22.00	1.242	62.9	1.006	0.17	0.412	0.515
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	DSI 2	Close	55830	3609	22.29	23.00	1.178	62.9	1.006	0.11	0.265	0.314
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	Close	55830	3609	21.06	22.00	1.242	62.9	1.006	-0.07	0.211	0.264
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 8	DSI 2	Close	55830	3609	22.29	23.00	1.178	62.9	1.006	-0.10	0.340	0.403
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	Close	55830	3609	21.06	22.00	1.242	62.9	1.006	0.08	0.277	0.346
	LTE Band 48	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	Close	55830+56028	3609+3628.8	21.89	23.00	1.291	62.9	1.006	0.02	0.431	0.560



FCC SAR TEST REPORT

Report No. : FA660814

[FR1 SAR]

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 3	DSI 2	Close	507000	2535	15.12	16.70	1.439			0.03	0.145	0.209
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 3	DSI 2	Close	507000	2535	15.11	16.70	1.442			-0.05	0.213	0.307
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 3	DSI 2	Close	507000	2535	15.12	16.70	1.439			-0.06	0.490	0.705
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 3	DSI 2	Close	507000	2535	15.11	16.70	1.442			-0.00	0.565	0.815
	FR1 n7	50	BPSK	270	0	Right Tilted	0mm	Ant 3	DSI 2	Close	507000	2535	15.09	16.70	1.449			-0.15	0.557	0.807
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 3	DSI 2	Close	507000	2535	15.12	16.70	1.439			-0.09	0.197	0.283
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 3	DSI 2	Close	507000	2535	15.11	16.70	1.442			-0.02	0.314	0.453
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 3	DSI 2	Close	507000	2535	15.12	16.70	1.439			-0.14	0.495	0.712
10	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 3	DSI 2	Close	507000	2535	15.11	16.70	1.442			0.00	0.757	1.092
	FR1 n7	50	BPSK	270	0	Left Tilted	0mm	Ant 3	DSI 2	Close	507000	2535	15.09	16.70	1.449			0.07	0.695	1.007
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 4	DSI 2	Close	507000	2535	22.27	23.00	1.183			-0.18	0.025	0.030
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 4	DSI 2	Close	507000	2535	22.25	23.00	1.189			0.17	0.037	0.044
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 4	DSI 2	Close	507000	2535	22.27	23.00	1.183			0.01	0.041	0.049
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 4	DSI 2	Close	507000	2535	22.25	23.00	1.189			-0.07	0.028	0.033
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI 2	Close	507000	2535	22.27	23.00	1.183			-0.10	0.200	0.237
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 4	DSI 2	Close	507000	2535	22.25	23.00	1.189			-0.06	0.215	0.256
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 4	DSI 2	Close	507000	2535	22.27	23.00	1.183			0.00	0.041	0.049
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 4	DSI 2	Close	507000	2535	22.25	23.00	1.189			-0.13	0.067	0.080
	FR1 n25	40M	BPSK	1	1	Right Cheek	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.89	21.40	1.416			0.18	0.630	0.892
	FR1 n25	40M	BPSK	108	54	Right Cheek	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.81	21.40	1.442			0.18	0.630	0.908
	FR1 n25	40	BPSK	216	0	Right Cheek	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.78	21.40	1.452			-0.11	0.620	0.900
	FR1 n25	40M	BPSK	1	1	Right Tilted	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.89	21.40	1.416			0.07	0.735	1.041
	FR1 n25	40M	BPSK	108	54	Right Tilted	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.81	21.40	1.442			-0.14	0.746	1.076
	FR1 n25	40	BPSK	216	0	Right Tilted	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.78	21.40	1.452			0.09	0.729	1.059
	FR1 n25	40M	BPSK	1	1	Left Cheek	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.89	21.40	1.416			-0.11	0.589	0.834
	FR1 n25	40M	BPSK	108	54	Left Cheek	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.81	21.40	1.442			0.11	0.624	0.900
	FR1 n25	40	BPSK	216	0	Left Cheek	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.78	21.40	1.452			0.04	0.630	0.915
	FR1 n25	40M	BPSK	1	1	Left Tilted	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.89	21.40	1.416			0.09	0.758	1.073
	FR1 n25	40M	BPSK	108	54	Left Tilted	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.81	21.40	1.442			0.02	0.822	1.185
11	FR1 n25	40	BPSK	216	0	Left Tilted	0mm	Ant 3	DSI 2	Close	376500	1882.5	19.78	21.40	1.452			-0.10	0.828	1.202
	FR1 n66	45M	BPSK	1	1	Right Cheek	0mm	Ant 3	DSI 2	Close	349000	1745	19.05	20.70	1.462			-0.02	0.525	0.768
	FR1 n66	45M	BPSK	120	60	Right Cheek	0mm	Ant 3	DSI 2	Close	349000	1745	19.01	20.70	1.476			-0.09	0.516	0.762
	FR1 n66	45M	BPSK	1	1	Right Tilted	0mm	Ant 3	DSI 2	Close	349000	1745	19.05	20.70	1.462			-0.13	0.647	0.946
	FR1 n66	45M	BPSK	120	60	Right Tilted	0mm	Ant 3	DSI 2	Close	349000	1745	19.01	20.70	1.476			-0.11	0.625	0.923
	FR1 n66	45	BPSK	240	0	Right Tilted	0mm	Ant 3	DSI 2	Close	349000	1745	18.98	20.70	1.486			0.10	0.782	1.162
	FR1 n66	45M	BPSK	1	1	Left Cheek	0mm	Ant 3	DSI 2	Close	349000	1745	19.05	20.70	1.462			-0.18	0.554	0.810
	FR1 n66	45M	BPSK	120	60	Left Cheek	0mm	Ant 3	DSI 2	Close	349000	1745	19.01	20.70	1.476			-0.08	0.536	0.791
	FR1 n66	45	BPSK	240	0	Left Cheek	0mm	Ant 3	DSI 2	Close	349000	1745	18.98	20.70	1.486			0.03	0.685	1.018
	FR1 n66	45M	BPSK	1	1	Left Tilted	0mm	Ant 3	DSI 2	Close	349000	1745	19.05	20.70	1.462			-0.01	0.674	0.985
	FR1 n66	45M	BPSK	120	60	Left Tilted	0mm	Ant 3	DSI 2	Close	349000	1745	19.01	20.70	1.476			0.16	0.679	1.002
12	FR1 n66	45	BPSK	240	0	Left Tilted	0mm	Ant 3	DSI 2	Close	349000	1745	18.98	20.70	1.486			-0.04	0.864	1.284
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	DSI 2	Close	518598	2592.99	15.60	16.40	1.202			0.01	0.637	0.766
	FR1 n41	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	DSI 2	Close	518598	2592.99	15.58	16.40	1.208			-0.05	0.585	0.707
13	FR1 n41	100M	BPSK	1	1	Right Tilted	0mm	Ant 3	DSI 2	Close	518598	2592.99	15.60	16.40	1.202			-0.00	0.852	1.024
	FR1 n41	100M	BPSK	135	69	Right Tilted	0mm	Ant 3	DSI 2	Close	518598	2592.99	15.58	16.40	1.208			0.04	0.719	0.869
	FR1 n41	100	BPSK	270	0	Right Tilted	0mm	Ant 3	DSI 2	Close	518598	2592.99	15.53	16.40	1.222			0.05	0.738	0.902
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 3	DSI 2	Close	518598	2592.99	15.60	16.40	1.202			0.04	0.644	0.774
	FR1 n41	100M	BPSK	135	69	Left Cheek	0mm	Ant 3	DSI 2	Close	518598	2592.99	15.58	16.40	1.208			-0.12	0.564	0.681
	FR1 n41	100M	BPSK	1	1	Left Tilted	0mm	Ant 3	DSI 2	Close	518598	2592.99	15.60	16.40	1.202			-0.06	0.850	1.022
	FR1 n41	100M	BPSK	135	69	Left Tilted	0mm	Ant 3	DSI 2	Close	518598	2592.99	15.58	16.40	1.208			0.18	0.743	0.898
	FR1 n41	100M	BPSK	270	0	Left Tilted	0mm	Ant 3	DSI 2	Close	518598	2592.99	15.53	16.40	1.222			0.13	0.745	0.910
	FR1 n41 HPUE	100	BPSK	1	1	Right Tilted	0mm	Ant 3	DSI 2	Close	518598	2592.99	18.47	19.40	1.239	50.0	1.0	0.19	0.806	0.999
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 4	DSI 2	Close	518598	2592.99	22.18	23.00	1.208			0.00	0.127	0.153
	FR1 n41	100M	BPSK	135	69	Right Cheek	0mm	Ant 4	DSI 2	Close	518598	2592.99	22.15	23.00	1.216			0.12	0.159	0.193
	FR1 n41	100M	BPSK	1	1	Right Tilted	0mm	Ant 4	DSI 2	Close	518598	2592.99	22.18	23.00	1.208			0.05	0.140	0.169
	FR1 n41	100M	BPSK	135	69	Right Tilted	0mm	Ant 4	DSI 2	Close	518598	2592.99	22.15	23.00	1.216			0.19	0.180	0.219
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI 2	Close	518598	2592.99	22.18	23.00	1.208			0.12	0.270	0.326
	FR1 n41	100M	BPSK	135	69	Left Cheek	0mm	Ant 4	DSI 2	Close	518598	2592.99	22.15	23.00	1.216			0.03	0.298	0.362
	FR1 n41	100M	BPSK	1	1	Left Tilted	0mm	Ant 4	DSI 2	Close	518598	2592.99	22.18	23.00	1.208			0.15	0.113	0.137
	FR1 n41	100M	BPSK	135	69	Left Tilted	0mm	Ant 4	DSI 2	Close	518598	2592.99	22.15	23.00	1.216			-0.04	0.146	0.178
	FR1 n41 HPUE	100	BPSK	135	69	Left Cheek	0mm	Ant 4	DSI 2	Close	518598	2592.99	24.98	26.00	1.265	50.0	1.0	-0.15	0.279	0.353
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 4	DSI 2	Close	641666	3624.99	23.21	24.00	1.199			0.01	0.060	0.072
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 4	DSI 2	Close	641666	3624.99	23.19	24.00	1.205			-0.04	0.059	0.071
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 4	DSI 2	Close	641666	3624.99	23.21	24.00	1.199			0.12	0.104	0.125
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 4	DSI 2	Close	641666	3624.99	23.19	24.00	1.205			-0.16	0.121	0.146
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI 2	Close	641666	3624.99	23.21	24.00	1.199			-0.09	0.357	0.428



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	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 4	DSI 2	Close	641666	3624.99	23.19	24.00	1.205			0.01	0.397	0.478
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 4	DSI 2	Close	641666	3624.99	23.21	24.00	1.199			0.08	0.077	0.092
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 4	DSI 2	Close	641666	3624.99	23.19	24.00	1.205			0.09	0.072	0.087
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 6	DSI 2	Close	641666	3624.99	23.43	24.00	1.14			0.10	0.288	0.328
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 6	DSI 2	Close	641666	3624.99	23.40	24.00	1.148			0.04	0.268	0.308
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 6	DSI 2	Close	641666	3624.99	23.43	24.00	1.14			-0.09	0.326	0.372
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 6	DSI 2	Close	641666	3624.99	23.40	24.00	1.148			-0.07	0.335	0.385
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 6	DSI 2	Close	641666	3624.99	23.43	24.00	1.14			-0.17	0.339	0.386
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 6	DSI 2	Close	641666	3624.99	23.40	24.00	1.148			0.11	0.323	0.371
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 6	DSI 2	Close	641666	3624.99	23.43	24.00	1.14			-0.17	0.406	0.463
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 6	DSI 2	Close	641666	3624.99	23.40	24.00	1.148			0.05	0.406	0.466
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	Close	641666	3624.99	21.15	22.50	1.365			0.04	0.598	0.816
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	Close	638000	3570	21.10	22.50	1.38			0.12	0.595	0.821
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	Close	645332	3679.98	21.13	22.50	1.371			-0.02	0.616	0.845
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 8	DSI 2	Close	641666	3624.99	21.11	22.50	1.377			-0.12	0.605	0.833
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 8	DSI 2	Close	638000	3570	21.08	22.50	1.387			0.14	0.606	0.841
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 8	DSI 2	Close	645332	3679.98	21.06	22.50	1.393			0.06	0.623	0.868
	FR1 n48	40M	BPSK	100	0	Right Cheek	0mm	Ant 8	DSI 2	Close	641666	3624.99	21.04	22.50	1.4			0.08	0.606	0.848
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	Close	641666	3624.99	21.15	22.50	1.365			-0.03	0.736	1.005
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	Close	638000	3570	21.10	22.50	1.38			0.06	0.742	1.024
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	Close	645332	3679.98	21.13	22.50	1.371			0.16	0.761	1.043
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 8	DSI 2	Close	641666	3624.99	21.11	22.50	1.377			-0.07	0.761	1.048
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 8	DSI 2	Close	638000	3570	21.08	22.50	1.387			0.18	0.761	1.056
14	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 8	DSI 2	Close	645332	3679.98	21.06	22.50	1.393			0.06	0.773	1.077
	FR1 n48	40M	BPSK	100	0	Right Tilted	0mm	Ant 8	DSI 2	Close	641666	3624.99	21.04	22.50	1.4			0.09	0.742	1.039
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 8	DSI 2	Close	641666	3624.99	21.15	22.50	1.365			0.01	0.415	0.566
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 8	DSI 2	Close	641666	3624.99	21.11	22.50	1.377			-0.18	0.423	0.582
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 8	DSI 2	Close	641666	3624.99	21.15	22.50	1.365			0.02	0.514	0.702
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 8	DSI 2	Close	638000	3570	21.10	22.50	1.38			0.03	0.520	0.718
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 8	DSI 2	Close	645332	3679.98	21.13	22.50	1.371			0.09	0.524	0.718
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 8	DSI 2	Close	641666	3624.99	21.11	22.50	1.377			-0.10	0.529	0.728
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 8	DSI 2	Close	638000	3570	21.08	22.50	1.387			-0.16	0.528	0.732
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 8	DSI 2	Close	645332	3679.98	21.06	22.50	1.393			-0.12	0.547	0.762
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 4	DSI 2	Close	633332	3499.98	23.23	24.00	1.194			0.09	< 0.001	< 0.001
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 4	DSI 2	Close	633332	3499.98	23.20	24.00	1.202			0.03	< 0.001	< 0.001
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 4	DSI 2	Close	633332	3499.98	23.23	24.00	1.194			0.01	< 0.001	< 0.001
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 4	DSI 2	Close	633332	3499.98	23.20	24.00	1.202			0.09	< 0.001	< 0.001
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI 2	Close	633332	3499.98	23.23	24.00	1.194			0.02	0.114	0.136
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 4	DSI 2	Close	633332	3499.98	23.20	24.00	1.202			-0.02	0.097	0.117
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 4	DSI 2	Close	633332	3499.98	23.23	24.00	1.194			0.19	0.034	0.041
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 4	DSI 2	Close	633332	3499.98	23.20	24.00	1.202			0.09	0.047	0.056
	FR1 n77 HPUE	100	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI 2	Close	633332	3499.98	26.23	27.00	1.194	50.0	1.0	0.04	0.109	0.130
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 6	DSI 2	Close	633332	3499.98	23.34	24.00	1.164			0.07	0.392	0.456
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 6	DSI 2	Close	633332	3499.98	23.24	24.00	1.191			0.01	0.395	0.470
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 6	DSI 2	Close	633332	3499.98	23.34	24.00	1.164			0.10	0.512	0.596
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 6	DSI 2	Close	633332	3499.98	23.24	24.00	1.191			0.03	0.507	0.604
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 6	DSI 2	Close	633332	3499.98	23.34	24.00	1.164			0.02	0.396	0.461
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 6	DSI 2	Close	633332	3499.98	23.24	24.00	1.191			0.04	0.397	0.473
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 6	DSI 2	Close	633332	3499.98	23.34	24.00	1.164			-0.18	0.582	0.677
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 6	DSI 2	Close	633332	3499.98	23.24	24.00	1.191			0.12	0.576	0.686
	FR1 n77 HPUE	100	BPSK	135	69	Left Tilted	0mm	Ant 6	DSI 2	Close	633332	3499.98	26.16	27.00	1.213	50.0	1.0	0.03	0.551	0.668
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.42	21.20	1.197			0.03	0.909	1.088
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.38	21.20	1.208			0.06	0.842	1.017
	FR1 n77	100M	BPSK	270	0	Right Cheek	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.34	21.20	1.219			-0.04	0.825	1.006
15	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.42	21.20	1.197			0.00	1.110	1.329
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.38	21.20	1.208			0.02	0.975	1.178
	FR1 n77	100M	BPSK	270	0	Right Tilted	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.34	21.20	1.219			0.16	0.975	1.189
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.42	21.20	1.197			-0.01	0.743	0.889
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.38	21.20	1.208			0.07	0.682	0.824
	FR1 n77	100M	BPSK	270	0	Left Cheek	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.34	21.20	1.219			-0.09	0.674	0.822
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.42	21.20	1.197			0.10	0.788	0.943
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.38	21.20	1.208			0.10	0.709	0.856
	FR1 n77	100M	BPSK	270	0	Left Tilted	0mm	Ant 8	DSI 2	Close	633332	3499.98	20.34	21.20	1.219			-0.01	0.703	0.857
	FR1 n77 HPUE	100	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	Close	633332	3499.98	23.42	24.20	1.197	50.0	1.0	0.12	1.050	1.257
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 4	DSI 2	Close	656000	3840	23.52	24.00	1.117			0.17	0.085	0.095
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 4	DSI 2	Close	656000	3840	23.48	24.00	1.127			0.14	0.109	0.123
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 4	DSI 2	Close	656000	3840	23.52	24.00	1.117			-0.13	0.086	0.096
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 4	DSI 2	Close	656000	3840	23.48	24.00	1.127			-0.03	0.094	0.106
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI 2	Close	656000	3840	23.52	24.00	1.117			-0.01	0.221	0.247
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 4	DSI 2	Close	656000	3840	23.48	24.00	1					



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FR1 n77 HPUE	100	BPSK	135	69	Left Cheek	0mm	Ant 4	DSI 2	Close	656000	3840	26.38	27.00	1.153	50.0	1.0	0.07	0.231	0.266
FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 6	DSI 2	Close	656000	3840	23.40	24.00	1.148			0.15	0.487	0.559
FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 6	DSI 2	Close	656000	3840	23.34	24.00	1.164			0.06	0.443	0.516
FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 6	DSI 2	Close	656000	3840	23.40	24.00	1.148			-0.10	0.512	0.588
FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 6	DSI 2	Close	656000	3840	23.34	24.00	1.164			-0.04	0.466	0.542
FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 6	DSI 2	Close	656000	3840	23.40	24.00	1.148			-0.03	0.300	0.344
FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 6	DSI 2	Close	656000	3840	23.34	24.00	1.164			0.02	0.290	0.338
FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 6	DSI 2	Close	656000	3840	23.40	24.00	1.148			0.00	0.357	0.410
FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 6	DSI 2	Close	656000	3840	23.34	24.00	1.164			-0.19	0.344	0.400
FR1 n77 HPUE	100	BPSK	1	1	Right Tilted	0mm	Ant 6	DSI 2	Close	656000	3840	26.46	27.00	1.132	50.0	1.0	0.06	0.527	0.597
FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	Close	656000	3840	20.70	21.20	1.122			-0.16	0.781	0.876
FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	DSI 2	Close	656000	3840	20.68	21.20	1.127			-0.09	0.729	0.822
FR1 n77	100	BPSK	270	0	Right Cheek	0mm	Ant 8	DSI 2	Close	656000	3840	20.64	21.20	1.138			0.03	0.721	0.820
FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	Close	656000	3840	20.70	21.20	1.122			0.17	0.999	1.121
FR1 n77	100	BPSK	270	0	Right Tilted	0mm	Ant 8	DSI 2	Close	656000	3840	20.64	21.20	1.138			0.12	0.960	1.092
FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 8	DSI 2	Close	656000	3840	20.68	21.20	1.127			-0.10	0.965	1.088
FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	DSI 2	Close	656000	3840	20.70	21.20	1.122			0.06	0.568	0.637
FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 8	DSI 2	Close	656000	3840	20.68	21.20	1.127			-0.14	0.553	0.623
FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 8	DSI 2	Close	656000	3840	20.70	21.20	1.122			-0.06	0.697	0.782
FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 8	DSI 2	Close	656000	3840	20.68	21.20	1.127			0.09	0.677	0.763
FR1 n77 HPUE	100	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	Close	656000	3840	23.71	24.20	1.119	50.0	1.0	0.01	0.972	1.088

Ant1

Plo t No.	Band	BW (MHz)	Modulatio n	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Configuratio n	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reporte d 1g SAR (W/kg)
16	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	133297	680.5	Close	23.39	24.00	1.151	0.14	0.150	0.173
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	133297	680.5	Close	22.36	23.00	1.159	0.05	0.130	0.151
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	133297	680.5	Close	23.39	24.00	1.151	0.06	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	133297	680.5	Close	22.36	23.00	1.159	-0.09	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	133297	680.5	Close	23.39	24.00	1.151	-0.08	0.075	0.086
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	133297	680.5	Close	22.36	23.00	1.159	0.13	0.070	0.081
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	133297	680.5	Close	23.39	24.00	1.151	0.12	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	133297	680.5	Close	22.36	23.00	1.159	0.03	0.001	0.001
17	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	Close	23.46	24.00	1.132	-0.14	0.145	0.164
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	Close	22.52	23.00	1.117	0.18	0.114	0.127
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	Close	23.46	24.00	1.132	0.16	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	Close	22.52	23.00	1.117	-0.1	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	Close	23.46	24.00	1.132	0.07	0.073	0.083
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	Close	22.52	23.00	1.117	0.18	0.059	0.066
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	Close	23.46	24.00	1.132	-0.1	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	Close	22.52	23.00	1.117	0.01	0.001	0.001
18	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	23230	782	Close	23.44	24.00	1.138	0.19	0.138	0.157
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	23230	782	Close	22.43	23.00	1.140	-0.15	0.114	0.130
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	23230	782	Close	23.44	24.00	1.138	0.19	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	23230	782	Close	22.43	23.00	1.140	0.07	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	23230	782	Close	23.44	24.00	1.138	-0.18	0.066	0.075
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	23230	782	Close	22.43	23.00	1.140	0.03	0.055	0.063
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	23230	782	Close	23.44	24.00	1.138	-0.15	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	23230	782	Close	22.43	23.00	1.140	-0.15	0.001	0.001
19	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	23330	793	Close	23.46	24.00	1.132	0.11	0.132	0.149
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	23330	793	Close	22.42	23.00	1.143	0.11	0.105	0.120
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	23330	793	Close	23.46	24.00	1.132	-0.08	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	23330	793	Close	22.42	23.00	1.143	-0.17	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	23330	793	Close	23.46	24.00	1.132	-0.08	0.063	0.071
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	23330	793	Close	22.42	23.00	1.143	-0.04	0.050	0.057
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	23330	793	Close	23.46	24.00	1.132	-0.08	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	23330	793	Close	22.42	23.00	1.143	0.17	0.001	0.001
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	136100	680.5	Close	23.27	24.00	1.183	0.18	0.123	0.146
20	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	136100	680.5	Close	23.24	24.00	1.191	0.02	0.141	0.168



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	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	136100	680.5	Close	23.27	24.00	1.183	-0.04	0.001	0.001
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	136100	680.5	Close	23.24	24.00	1.191	-0.08	0.001	0.001
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	136100	680.5	Close	23.27	24.00	1.183	-0.13	0.058	0.069
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	136100	680.5	Close	23.24	24.00	1.191	-0.13	0.071	0.085
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	136100	680.5	Close	23.27	24.00	1.183	0.06	0.001	0.001
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	136100	680.5	Close	23.24	24.00	1.191	-0.03	0.001	0.001
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	141500	707.5	Close	23.27	24.00	1.183	-0.03	0.143	0.169
21	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	141500	707.5	Close	23.25	24.00	1.189	-0.13	0.149	0.177
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	141500	707.5	Close	23.27	24.00	1.183	0.08	0.001	0.001
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	141500	707.5	Close	23.25	24.00	1.189	-0.07	0.001	0.001
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	141500	707.5	Close	23.27	24.00	1.183	0.05	0.077	0.091
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	141500	707.5	Close	23.25	24.00	1.189	-0.11	0.078	0.093
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	141500	707.5	Close	23.27	24.00	1.183	-0.12	0.001	0.001
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	141500	707.5	Close	23.25	24.00	1.189	0.03	0.001	0.001
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	156400	782	Close	23.36	24.00	1.159	-0.02	0.081	0.094
22	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	156400	782	Close	23.35	24.00	1.161	0.1	0.087	0.101
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	156400	782	Close	23.36	24.00	1.159	0.15	0.001	0.001
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	156400	782	Close	23.35	24.00	1.161	-0.09	0.001	0.001
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	156400	782	Close	23.36	24.00	1.159	0.11	0.041	0.048
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	156400	782	Close	23.35	24.00	1.161	-0.05	0.039	0.045
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	156400	782	Close	23.36	24.00	1.159	-0.08	0.001	0.001
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	156400	782	Close	23.35	24.00	1.161	0.16	0.001	0.001
23	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	158600	793	Close	23.35	24.00	1.161	0.05	0.168	0.195
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	158600	793	Close	23.31	24.00	1.172	0.05	0.162	0.190
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	158600	793	Close	23.35	24.00	1.161	0.05	0.001	0.001
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	158600	793	Close	23.31	24.00	1.172	-0.03	0.001	0.001
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	158600	793	Close	23.35	24.00	1.161	-0.15	0.079	0.092
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	158600	793	Close	23.31	24.00	1.172	0.02	0.073	0.086
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	158600	793	Close	23.35	24.00	1.161	0.07	0.001	0.001
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	158600	793	Close	23.31	24.00	1.172	0.16	0.001	0.001
24	GSM850	-	-	-	-	GPRS 3 Tx slots	Right Cheek	0mm	Ant 1	DSI 2	189	836.4	Close	29.12	30.00	1.225	0.14	0.185	0.227
	GSM850	-	-	-	-	GPRS 3 Tx slots	Right Tilted	0mm	Ant 1	DSI 2	189	836.4	Close	29.12	30.00	1.225	0.13	0.001	0.001
	GSM850	-	-	-	-	GPRS 3 Tx slots	Left Cheek	0mm	Ant 1	DSI 2	189	836.4	Close	29.12	30.00	1.225	-0.18	0.071	0.087
	GSM850	-	-	-	-	GPRS 3 Tx slots	Left Tilted	0mm	Ant 1	DSI 2	189	836.4	Close	29.12	30.00	1.225	0.02	0.001	0.001
25	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4182	836.4	Close	23.26	24.00	1.186	-0.04	0.258	0.306
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	4182	836.4	Close	23.26	24.00	1.186	-0.03	0.001	0.001
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	4182	836.4	Close	23.26	24.00	1.186	0.07	0.106	0.126
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	4182	836.4	Close	23.26	24.00	1.186	0	0.001	0.001
26	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	Close	23.33	24.00	1.167	0.03	0.174	0.203
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	Close	22.34	23.00	1.164	-0.01	0.143	0.166
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	Close	23.33	24.00	1.167	-0.06	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	Close	22.34	23.00	1.164	-0.04	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	Close	23.33	24.00	1.167	-0.09	0.077	0.090
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	Close	22.34	23.00	1.164	-0.17	0.062	0.072
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	Close	23.33	24.00	1.167	-0.1	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	Close	22.34	23.00	1.164	0.18	0.001	0.001
	LTE Band 5	10M	QPSK	1	49	-	Right Cheek	0mm	Ant 1	DSI 2	20476+20575	831.5+841.5	Close	23.15	24.00	1.216	0.03	0.155	0.188
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	166300	831.5	Close	23.33	24.00	1.167	-0.04	0.181	0.211
27	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	166300	831.5	Close	23.29	24.00	1.178	0.09	0.190	0.224
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	166300	831.5	Close	23.33	24.00	1.167	-0.05	0.001	0.001
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	166300	831.5	Close	23.29	24.00	1.178	0	0.001	0.001
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	166300	831.5	Close	23.33	24.00	1.167	-0.13	0.083	0.097
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	166300	831.5	Close	23.29	24.00	1.178	-0.01	0.087	0.102
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	166300	831.5	Close	23.33	24.00	1.167	-0.09	0.001	0.001
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	166300	831.5	Close	23.29	24.00	1.178	0.05	0.001	0.001

**MIMO SAR**

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n48 HPUE	40M	BPSK	1	1	Right Cheek	0mm	Ant 8+4	DSI 2	641666	3624.99	23.20	24.5	1.349	100	1.000	0.15	0.608	0.82
	FR1 n48 HPUE	40M	BPSK	1	1	Right Cheek	0mm	Ant 8+4	DSI 2	638000	3570	23.08	24.5	1.387	100	1.000	0.09	0.640	0.888
	FR1 n48 HPUE	40M	BPSK	1	1	Right Cheek	0mm	Ant 8+4	DSI 2	645332	3679.98	23.09	24.5	1.383	100	1.000	-0.16	0.631	0.873
	FR1 n48 HPUE	40M	BPSK	50	28	Right Cheek	0mm	Ant 8+4	DSI 2	641666	3624.99	23.08	24.5	1.387	100	1.000	0.05	0.594	0.824
	FR1 n48 HPUE	40M	BPSK	50	28	Right Cheek	0mm	Ant 8+4	DSI 2	638000	3570	23.14	24.5	1.368	100	1.000	0.08	0.608	0.832
	FR1 n48 HPUE	40M	BPSK	50	28	Right Cheek	0mm	Ant 8+4	DSI 2	645332	3679.98	23.09	24.5	1.383	100	1.000	-0.18	0.602	0.833
	FR1 n48 HPUE	40M	BPSK	100	0	Right Cheek	0mm	Ant 8+4	DSI 2	641666	3624.99	23.08	24.5	1.387	100	1.000	-0.03	0.596	0.827
	FR1 n48 HPUE	40M	BPSK	1	1	Right Tilted	0mm	Ant 8+4	DSI 2	641666	3624.99	23.20	24.5	1.349	100	1.000	-0.04	0.676	0.912
	FR1 n48 HPUE	40M	BPSK	1	1	Right Tilted	0mm	Ant 8+4	DSI 2	638000	3570	23.08	24.5	1.387	100	1.000	-0.09	0.708	0.982
	FR1 n48 HPUE	40M	BPSK	1	1	Right Tilted	0mm	Ant 8+4	DSI 2	645332	3679.98	23.09	24.5	1.383	100	1.000	0.18	0.692	0.957
	FR1 n48 HPUE	40M	BPSK	50	28	Right Tilted	0mm	Ant 8+4	DSI 2	641666	3624.99	23.08	24.5	1.387	100	1.000	0.11	0.676	0.938
	FR1 n48 HPUE	40M	BPSK	50	28	Right Tilted	0mm	Ant 8+4	DSI 2	638000	3570	23.14	24.5	1.368	100	1.000	0.07	0.668	0.914
	FR1 n48 HPUE	40M	BPSK	50	28	Right Tilted	0mm	Ant 8+4	DSI 2	645332	3679.98	23.09	24.5	1.383	100	1.000	-0.03	0.612	0.846
	FR1 n48 HPUE	40M	BPSK	100	0	Right Tilted	0mm	Ant 8+4	DSI 2	641666	3624.99	23.08	24.5	1.387	100	1.000	0.09	0.638	0.885
	FR1 n48 HPUE	40M	BPSK	1	1	Left Cheek	0mm	Ant 8+4	DSI 2	641666	3624.99	23.20	24.5	1.349	100	1.000	-0.08	0.499	0.673
	FR1 n48 HPUE	40M	BPSK	50	28	Left Cheek	0mm	Ant 8+4	DSI 2	641666	3624.99	23.08	24.5	1.387	100	1.000	-0.05	0.500	0.694
	FR1 n48 HPUE	40M	BPSK	1	1	Left Tilted	0mm	Ant 8+4	DSI 2	641666	3624.99	23.20	24.5	1.349	100	1.000	-0.03	0.581	0.784
	FR1 n48 HPUE	40M	BPSK	50	28	Left Tilted	0mm	Ant 8+4	DSI 2	641666	3624.99	23.08	24.5	1.387	100	1.000	0.17	0.576	0.799
	FR1 n48 HPUE	40M	BPSK	1	1	Right Cheek	0mm	Ant 8+6	DSI 2	641666	3624.99	22.72	24.00	1.343	100	1.000	0.06	0.622	0.835
	FR1 n48 HPUE	40M	BPSK	1	1	Right Cheek	0mm	Ant 8+6	DSI 2	638000	3570	22.64	24.00	1.368	100	1.000	-0.06	0.592	0.81
	FR1 n48 HPUE	40M	BPSK	1	1	Right Cheek	0mm	Ant 8+6	DSI 2	645332	3679.98	22.70	24.00	1.349	100	1.000	-0.15	0.665	0.897
	FR1 n48 HPUE	40M	BPSK	50	28	Right Cheek	0mm	Ant 8+6	DSI 2	641666	3624.99	22.56	24.00	1.393	100	1.000	-0.12	0.444	0.618
	FR1 n48 HPUE	40M	BPSK	100	0	Right Cheek	0mm	Ant 8+6	DSI 2	641666	3624.99	22.54	24.00	1.399	100	1.000	-0.16	0.454	0.635
	FR1 n48 HPUE	40M	BPSK	1	1	Right Tilted	0mm	Ant 8+6	DSI 2	641666	3624.99	22.72	24.00	1.343	100	1.000	-0.03	0.700	0.94
	FR1 n48 HPUE	40M	BPSK	1	1	Right Tilted	0mm	Ant 8+6	DSI 2	638000	3570	22.64	24.00	1.368	100	1.000	0.17	0.636	0.87
	FR1 n48 HPUE	40M	BPSK	1	1	Right Tilted	0mm	Ant 8+6	DSI 2	645332	3679.98	22.70	24.00	1.349	100	1.000	0.02	0.743	1.002
	FR1 n48 HPUE	40M	BPSK	50	28	Right Tilted	0mm	Ant 8+6	DSI 2	641666	3624.99	22.56	24.00	1.393	100	1.000	0	0.598	0.833
	FR1 n48 HPUE	40M	BPSK	50	28	Right Tilted	0mm	Ant 8+6	DSI 2	638000	3570	22.58	24.00	1.387	100	1.000	0.18	0.734	1.018
	FR1 n48 HPUE	40M	BPSK	50	28	Right Tilted	0mm	Ant 8+6	DSI 2	645332	3679.98	22.53	24.00	1.403	100	1.000	-0.11	0.595	0.835
	FR1 n48 HPUE	40M	BPSK	100	0	Right Tilted	0mm	Ant 8+6	DSI 2	641666	3624.99	22.54	24.00	1.399	100	1.000	-0.05	0.629	0.88
	FR1 n48 HPUE	40M	BPSK	1	1	Left Cheek	0mm	Ant 8+6	DSI 2	641666	3624.99	22.72	24.00	1.343	100	1.000	-0.04	0.455	0.611
	FR1 n48 HPUE	40M	BPSK	50	28	Left Cheek	0mm	Ant 8+6	DSI 2	641666	3624.99	22.56	24.00	1.393	100	1.000	-0.08	0.450	0.627
	FR1 n48 HPUE	40M	BPSK	1	1	Left Tilted	0mm	Ant 8+6	DSI 2	641666	3624.99	22.72	24.00	1.343	100	1.000	0	0.578	0.776
	FR1 n48 HPUE	40M	BPSK	50	28	Left Tilted	0mm	Ant 8+6	DSI 2	641666	3624.99	22.56	24.00	1.393	100	1.000	-0.14	0.546	0.761
	FR1 n77 HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 8+4	DSI 2	633332	3499.98	23.43	24.20	1.194	50	1.000	0.18	0.410	0.49
	FR1 n77 HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 8+4	DSI 2	633332	3499.98	23.39	24.20	1.205	50	1.000	0.02	0.380	0.458
	FR1 n77 HPUE	100M	BPSK	1	1	Right Tilted	0mm	Ant 8+4	DSI 2	633332	3499.98	23.43	24.20	1.194	50	1.000	0.16	0.449	0.536
	FR1 n77 HPUE	100M	BPSK	135	69	Right Tilted	0mm	Ant 8+4	DSI 2	633332	3499.98	23.39	24.20	1.205	50	1.000	0.06	0.404	0.487
	FR1 n77 HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 8+4	DSI 2	633332	3499.98	23.43	24.20	1.194	50	1.000	-0.02	0.277	0.331
	FR1 n77 HPUE	100M	BPSK	135	69	Left Cheek	0mm	Ant 8+4	DSI 2	633332	3499.98	23.39	24.20	1.205	50	1.000	0.07	0.261	0.315
	FR1 n77 HPUE	100M	BPSK	1	1	Left Tilted	0mm	Ant 8+4	DSI 2	633332	3499.98	23.43	24.20	1.194	50	1.000	-0.17	0.339	0.405
	FR1 n77 HPUE	100M	BPSK	135	69	Left Tilted	0mm	Ant 8+4	DSI 2	633332	3499.98	23.39	24.20	1.205	50	1.000	0.1	0.308	0.371
	FR1 n77_HPUE	100M	BPSK	1	1	Right Tilted	0mm	Ant 8+4	DSI 2	633332	3499.98	26.43	27.20	1.194	50	1.000	0.08	0.446	0.533
	FR1 n77 HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 8+6	DSI 2	633332	3499.98	23.43	24.20	1.194	50	1.000	-0.13	0.555	0.663
	FR1 n77 HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 8+6	DSI 2	633332	3499.98	23.39	24.20	1.205	50	1.000	-0.1	0.515	0.621
	FR1 n77 HPUE	100M	BPSK	1	1	Right Tilted	0mm	Ant 8+6	DSI 2	633332	3499.98	23.43	24.20	1.194	50	1.000	-0.07	0.621	0.741
	FR1 n77 HPUE	100M	BPSK	135	69	Right Tilted	0mm	Ant 8+6	DSI 2	633332	3499.98	23.39	24.20	1.205	50	1.000	0.11	0.548	0.66
	FR1 n77 HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 8+6	DSI 2	633332	3499.98	23.43	24.20	1.194	50	1.000	-0.17	0.453	0.541
	FR1 n77 HPUE	100M	BPSK	135	69	Left Cheek	0mm	Ant 8+6	DSI 2	633332	3499.98	23.39	24.20	1.205	50	1.000	0.01	0.401	0.483
	FR1 n77 HPUE	100M	BPSK	1	1	Left Tilted	0mm	Ant 8+6	DSI 2	633332	3499.98	23.43	24.20	1.194	50	1.000	0.1	0.508	0.607



FCC SAR TEST REPORT

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FR1 n77 HPUE	100M	BPSK	135	69	Left Tilted	0mm	Ant 8+6	DSI 2	633332	3499.98	23.39	24.20	1.205	50	1.000	0.11	0.447	0.539
FR1 n77_PC1.5	100M	BPSK	1	1	Right Tilted	0mm	Ant 8+6	DSI 2	633332	3499.98	26.43	27.20	1.194	50	1.000	-0.07	0.586	0.7
FR1 n77 HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 8+4	DSI 2	656000	3840	26.72	27.20	1.117	50	1.000	0.12	0.162	0.181
FR1 n77 HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 8+4	DSI 2	656000	3840	26.66	27.20	1.132	50	1.000	0.07	0.137	0.155
FR1 n77 HPUE	100M	BPSK	1	1	Right Tilted	0mm	Ant 8+4	DSI 2	656000	3840	26.72	27.20	1.117	50	1.000	0.15	0.217	0.242
FR1 n77 HPUE	100M	BPSK	135	69	Right Tilted	0mm	Ant 8+4	DSI 2	656000	3840	26.66	27.20	1.132	50	1.000	0.14	0.185	0.209
FR1 n77 HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 8+4	DSI 2	656000	3840	26.72	27.20	1.117	50	1.000	-0.03	0.116	0.13
FR1 n77 HPUE	100M	BPSK	135	69	Left Cheek	0mm	Ant 8+4	DSI 2	656000	3840	26.66	27.20	1.132	50	1.000	-0.14	0.103	0.117
FR1 n77 HPUE	100M	BPSK	1	1	Left Tilted	0mm	Ant 8+4	DSI 2	656000	3840	26.72	27.20	1.117	50	1.000	0.17	0.147	0.164
FR1 n77 HPUE	100M	BPSK	135	69	Left Tilted	0mm	Ant 8+4	DSI 2	656000	3840	26.66	27.20	1.132	50	1.000	0.11	0.128	0.145
FR1 n77_PC1.5	100M	BPSK	1	1	Right Tilted	0mm	Ant 8+4	DSI 2	656000	3840	23.38	24.20	1.208	50	1.000	0.07	0.194	0.234
FR1 n77 HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 8+6	DSI 2	656000	3840	23.71	24.20	1.119	50	1.000	-0.18	0.211	0.236
FR1 n77 HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 8+6	DSI 2	656000	3840	23.69	24.20	1.125	50	1.000	-0.13	0.174	0.196
FR1 n77 HPUE	100M	BPSK	1	1	Right Tilted	0mm	Ant 8+6	DSI 2	656000	3840	23.71	24.20	1.119	50	1.000	-0.13	0.268	0.3
FR1 n77 HPUE	100M	BPSK	135	69	Right Tilted	0mm	Ant 8+6	DSI 2	656000	3840	23.69	24.20	1.125	50	1.000	0	0.224	0.252
FR1 n77 HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 8+6	DSI 2	656000	3840	23.71	24.20	1.119	50	1.000	-0.04	0.163	0.182
FR1 n77 HPUE	100M	BPSK	135	69	Left Cheek	0mm	Ant 8+6	DSI 2	656000	3840	23.69	24.20	1.125	50	1.000	-0.15	0.134	0.151
FR1 n77 HPUE	100M	BPSK	1	1	Left Tilted	0mm	Ant 8+6	DSI 2	656000	3840	23.71	24.20	1.119	50	1.000	-0.09	0.200	0.224
FR1 n77 HPUE	100M	BPSK	135	69	Left Tilted	0mm	Ant 8+6	DSI 2	656000	3840	23.69	24.20	1.125	50	1.000	0.05	0.165	0.186
FR1 n77_PC1.5	100M	BPSK	1	1	Right Tilted	0mm	Ant 8+6	DSI 2	656000	3840	26.72	27.20	1.117	50	1.000	0.13	0.235	0.262

LTE CA SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Power Scaling Factor	Measured Drift (dB)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	99	Left Tilted	0mm	Ant 3	DSI 2	Close	18900+18900	1880+1899.8	20.62	22.00	1.374	0.03	0.743
	LTE Band 2	20M	QPSK	1	99	Left Cheek	0mm	Ant 4	DSI 2	Close	18900+18900	1880+1899.8	21.53	23.00	1.403	0.05	0.711

NRCA SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Maximum Duty Cycle %	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n41	100M	BPSK	144	129	Right Tilted	0mm	Ant 3	DSI 2	Close	509598+528582	2547.99+2642.91	15.43	16.40	1.250	100.0	1.000	100.0	0.03	0.801	1.001
	FR1 n41	100M	BPSK	144	129	Left Cheek	0mm	Ant 4	DSI 2	Close	509598+528582	2547.99+2642.91	21.83	23.00	1.309	100.0	1.000	100.0	0.02	0.258	0.338
	FR1 n77	100M	BPSK	162	108	Left Cheek	0mm	Ant 4	DSI 2	Close	644000+648328	3660+3724.92	23.03	24.00	1.250	100.0	1.000	100.0	-0.09	0.234	0.293
	FR1 n77 HPUE	100M	BPSK	162	108	Left Cheek	0mm	Ant 4	DSI 2	Close	644000+648328	3660+3724.92	26.05	27.00	1.245	50.0	1.000	50.0	-0.09	0.221	0.275
	FR1 n77	100M	BPSK	162	108	Right Tilted	0mm	Ant 6	DSI 2	Close	644000+648328	3660+3724.92	23.13	24.00	1.222	100.0	1.000	100.0	-0.09	0.478	0.584
	FR1 n77	100M	BPSK	162	108	Right Tilted	0mm	Ant 8	DSI 2	Close	644000+648328	3660+3724.92	20.25	21.20	1.245	100.0	1.000	100.0	0.03	0.851	1.059
	FR1 n77 HPUE	100M	BPSK	162	108	Right Tilted	0mm	Ant 8	DSI 2	Close	644000+648328	3660+3724.92	23.22	24.20	1.253	50.0	1.000	50.0	0.03	0.869	1.089

【WLAN 2.4GHz_5GHz SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Power Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7+11(7)	DSI 2	Close	11	2462	20.77	22.50	1.489	97.05	1.03	0.18	0.462	0.709
28	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7+11(7)	DSI 2	Close	11	2462	20.77	22.50	1.489	97.05	1.03	0.15	0.609	0.934
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7+11(7)	DSI 2	Close	6	2437	20.78	22.50	1.486	97.05	1.03	0.05	0.501	0.767
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+11(7)	DSI 2	Close	11	2462	20.77	22.50	1.489	97.05	1.03	-0.11	0.434	0.666
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7+11(7)	DSI 2	Close	11	2462	20.77	22.50	1.489	97.05	1.03	-0.07	0.514	0.788
	WLAN5GHz	802.11ac-VHT40 MCS0	Right Cheek	0mm	Ant 6+1(6)	DSI 2	Close	54	5270	19.75	21.50	1.496	100.00	1.000	-0.03	0.196	0.293
	WLAN5GHz	802.11ac-VHT40 MCS0	Right Tilted	0mm	Ant 6+1(6)	DSI 2	Close	54	5270	19.75	21.50	1.496	100.00	1.000	0.07	0.284	0.425
	WLAN5GHz	802.11ac-VHT40 MCS0	Left Cheek	0mm	Ant 6+1(6)	DSI 2	Close	54	5270	19.75	21.50	1.496	100.00	1.000	0.09	0.288	0.431
29	WLAN5GHz	802.11ac-VHT40 MCS0	Left Tilted	0mm	Ant 6+1(6)	DSI 2	Close	54	5270	19.75	21.50	1.496	100.00	1.000	0.17	0.324	0.485
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+1(1)	DSI 2	Close	138	5690	19.39	21.00	1.449	100.00	1.000	0.00	0.179	0.259
30	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+1(1)	DSI 2	Close	138	5690	19.39	21.00	1.449	100.00	1.000	0.17	0.216	0.313

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	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+1(1)	DSI 2	Close	138	5690	19.39	21.00	1.449	100.00	1.000	0.01	0.169	0.245
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+1(1)	DSI 2	Close	138	5690	19.39	21.00	1.449	100.00	1.000	0.16	0.176	0.255
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+1(1)	DSI 2	Close	155	5775	20.30	22.00	1.479	100.00	1.000	0.17	0.236	0.349
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+1(1)	DSI 2	Close	155	5775	20.30	22.00	1.479	100.00	1.000	-0.04	0.248	0.367
31	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+1(1)	DSI 2	Close	155	5775	20.30	22.00	1.479	100.00	1.000	0.10	0.325	0.481
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+1(1)	DSI 2	Close	155	5775	20.30	22.00	1.479	100.00	1.000	-0.05	0.276	0.408

【Bluetooth SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	BR / EDR 1Mbps	Right Cheek	0mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	-0.19	0.140	0.220
	Bluetooth	BR / EDR 1Mbps	Right Tilted	0mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	0.16	0.138	0.217
32	Bluetooth	BR / EDR 1Mbps	Left Cheek	0mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	-0.04	0.158	0.249
	Bluetooth	BR / EDR 1Mbps	Left Tilted	0mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	0.16	0.148	0.233
	Bluetooth	BR / EDR 1Mbps	Right Cheek	0mm	Ant 11	Full Power	Close	39	2441	19.41	21.00	1.442	76.66	1.087	0.19	0.045	0.071
	Bluetooth	BR / EDR 1Mbps	Right Tilted	0mm	Ant 11	Full Power	Close	39	2441	19.41	21.00	1.442	76.66	1.087	-0.08	0.044	0.069
	Bluetooth	BR / EDR 1Mbps	Left Cheek	0mm	Ant 11	Full Power	Close	39	2441	19.41	21.00	1.442	76.66	1.087	-0.11	0.041	0.064
	Bluetooth	BR / EDR 1Mbps	Left Tilted	0mm	Ant 11	Full Power	Close	39	2441	19.41	21.00	1.442	76.66	1.087	0.05	0.001	0.002

【WLAN 6GHz SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 6+1(6)	DSI 2	207	6985	17.2	19	1.514	100	1.000	-0.03	0.094	0.142	0.462
33	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 6+1(6)	DSI 2	207	6985	17.2	19	1.514	100	1.000	0.09	0.136	0.206	0.742
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 6+1(6)	DSI 2	207	6985	17.2	19	1.514	100	1.000	0.01	0.019	0.029	0.687
	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 6+1(6)	DSI 2	207	6985	17.2	19	1.514	100	1.000	-0.05	0.109	0.165	0.576
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 6+1(6)	DSI 2	15	6025	14.91	16.5	1.442	100	1.000	0.02	0.045	0.065	0.282
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 6+1(1)	DSI 2	47	6185	15.33	17	1.469	100	1.000	0.09	0.022	0.032	0.194
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 6+1(1)	DSI 2	111	6505	15.46	17	1.426	100	1.000	-0.03	0.020	0.029	0.311
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 6+1(6)	DSI 2	143	6665	15.53	17	1.403	100	1.000	0.15	0.073	0.102	0.464

<Spot check>

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Actual Duty Cycle %	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	55830	3609	20.7	22	1.349	62.9	1.006	63.3	0.18	0.034	0.046
	FR1 n41_HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 0	DSI 2	518598	2592.99	25.76	27	1.330	50	1.000	50	0.19	0.237	0.315
	FR1 n77_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 2	DSI 2	656000	3840	25.86	27	1.300	50	1.000	50	0.02	0.046	0.06

**16.2 Hotspot SAR**

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900	GPRS 3 Tx slots	Front	5mm	Ant 3	DSI 7	Close	661	1880	22.81	23.40	1.146	0.15	0.254	0.291
	GSM1900	GPRS 3 Tx slots	Back Top	5mm	Ant 3	DSI 7	Close	661	1880	22.81	23.40	1.146	0.01	1.090	1.249
	GSM1900	GPRS 3 Tx slots	Back Top	5mm	Ant 3	DSI 7	Close	512	1850.2	22.74	23.40	1.164	-0.01	1.060	1.234
	GSM1900	GPRS 3 Tx slots	Back Top	5mm	Ant 3	DSI 7	Close	810	1909.8	22.68	23.40	1.18	-0.06	1.050	1.239
	GSM1900	GPRS 3 Tx slots	Left Side	5mm	Ant 3	DSI 7	Close	661	1880	22.81	23.40	1.146	-0.13	0.054	0.062
34	GSM1900	GPRS 3 Tx slots	Top Side	5mm	Ant 3	DSI 7	Close	661	1880	22.81	23.40	1.146	0.08	1.140	1.306
	GSM1900	GPRS 3 Tx slots	Top Side	5mm	Ant 3	DSI 7	Close	512	1850.2	22.74	23.40	1.164	0.12	1.080	1.257
	GSM1900	GPRS 3 Tx slots	Top Side	5mm	Ant 3	DSI 7	Close	810	1909.8	22.68	23.40	1.18	0.10	1.070	1.263
	GSM1900	GPRS 3 Tx slots	Front	5mm	Ant 4	DSI 7	Close	661	1880	24.25	25.00	1.189	0.01	0.124	0.147
	GSM1900	GPRS 3 Tx slots	Back Right	5mm	Ant 4	DSI 7	Close	661	1880	24.25	25.00	1.189	-0.18	0.364	0.433
	GSM1900	GPRS 3 Tx slots	Right Side	5mm	Ant 4	DSI 7	Close	661	1880	24.25	25.00	1.189	-0.18	0.355	0.422
	GSM1900	GPRS 3 Tx slots	Top Side	5mm	Ant 4	DSI 7	Close	661	1880	24.25	25.00	1.189	0.15	0.179	0.213

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 3	DSI 7	Close	9400	1880	17.55	19.20	1.462	0.07	0.176	0.257
	WCDMA II	RMC 12.2Kbps	Back Top	5mm	Ant 3	DSI 7	Close	9400	1880	17.55	19.20	1.462	-0.10	0.640	0.936
	WCDMA II	RMC 12.2Kbps	Back Top	5mm	Ant 3	DSI 7	Close	9262	1852.4	17.51	19.20	1.476	-0.04	0.719	1.061
	WCDMA II	RMC 12.2Kbps	Back Top	5mm	Ant 3	DSI 7	Close	9538	1907.6	17.53	19.20	1.469	-0.07	0.681	1.000
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	Ant 3	DSI 7	Close	9400	1880	17.55	19.20	1.462	-0.06	0.037	0.054
	WCDMA II	RMC 12.2Kbps	Top Side	5mm	Ant 3	DSI 7	Close	9400	1880	17.55	19.20	1.462	-0.04	0.692	1.012
35	WCDMA II	RMC 12.2Kbps	Top Side	5mm	Ant 3	DSI 7	Close	9262	1852.4	17.51	19.20	1.476	-0.03	0.792	1.169
	WCDMA II	RMC 12.2Kbps	Top Side	5mm	Ant 3	DSI 7	Close	9538	1907.6	17.53	19.20	1.469	-0.17	0.786	1.155
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 4	DSI 7	Close	9400	1880	22.17	22.70	1.13	0.10	0.242	0.273
	WCDMA II	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 7	Close	9400	1880	22.17	22.70	1.13	-0.19	0.804	0.909
	WCDMA II	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 7	Close	9262	1852.4	22.07	22.70	1.156	0.10	0.590	0.682
	WCDMA II	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 7	Close	9538	1907.6	22.16	22.70	1.132	0.01	0.594	0.672
	WCDMA II	RMC 12.2Kbps	Right Side	5mm	Ant 4	DSI 7	Close	9400	1880	22.17	22.70	1.13	-0.10	0.879	0.993
	WCDMA II	RMC 12.2Kbps	Right Side	5mm	Ant 4	DSI 7	Close	9262	1852.4	22.07	22.70	1.156	0.09	0.823	0.951
	WCDMA II	RMC 12.2Kbps	Right Side	5mm	Ant 4	DSI 7	Close	9538	1907.6	22.16	22.70	1.132	0.06	0.809	0.916
	WCDMA II	RMC 12.2Kbps	Top Side	5mm	Ant 4	DSI 7	Close	9400	1880	22.17	22.70	1.13	-0.14	0.148	0.167
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 3	DSI 7	Close	1413	1732.6	19.09	20.00	1.233	-0.11	0.255	0.314
	WCDMA IV	RMC 12.2Kbps	Back Top	5mm	Ant 3	DSI 7	Close	1413	1732.6	19.09	20.00	1.233	-0.14	0.622	0.767
	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	Ant 3	DSI 7	Close	1413	1732.6	19.09	20.00	1.233	-0.18	0.052	0.064
	WCDMA IV	RMC 12.2Kbps	Top Side	5mm	Ant 3	DSI 7	Close	1413	1732.6	19.09	20.00	1.233	0.00	0.773	0.953
	WCDMA IV	RMC 12.2Kbps	Top Side	5mm	Ant 3	DSI 7	Close	1312	1712.4	18.98	20.00	1.265	-0.18	0.729	0.922
	WCDMA IV	RMC 12.2Kbps	Top Side	5mm	Ant 3	DSI 7	Close	1513	1752.6	19.03	20.00	1.25	0.10	0.745	0.931
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 4	DSI 7	Close	1413	1732.6	21.16	22.20	1.271	-0.16	0.184	0.234
	WCDMA IV	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 7	Close	1413	1732.6	21.16	22.20	1.271	0.08	0.697	0.886
	WCDMA IV	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 7	Close	1312	1712.4	21.11	22.20	1.285	-0.08	0.851	1.094
	WCDMA IV	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 7	Close	1513	1752.6	21.13	22.20	1.279	-0.16	0.789	1.009
	WCDMA IV	RMC 12.2Kbps	Right Side	5mm	Ant 4	DSI 7	Close	1413	1732.6	21.16	22.20	1.271	-0.17	0.904	1.149
36	WCDMA IV	RMC 12.2Kbps	Right Side	5mm	Ant 4	DSI 7	Close	1312	1712.4	21.11	22.20	1.285	-0.07	0.976	1.254
	WCDMA IV	RMC 12.2Kbps	Right Side	5mm	Ant 4	DSI 7	Close	1513	1752.6	21.13	22.20	1.279	0.13	0.863	1.104
	WCDMA IV	RMC 12.2Kbps	Top Side	5mm	Ant 4	DSI 7	Close	1413	1732.6	21.16	22.20	1.271	-0.15	0.081	0.103

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 3	DSI 7	Close	21100	2535	15.43	17.20	1.503			-0.17	0.224	0.337
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 3	DSI 7	Close	21100	2535	15.35	17.20	1.531			-0.04	0.218	0.334
	LTE Band 7	20M	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	21100	2535	15.43	17.20	1.503			-0.07	0.638	0.959
	LTE Band 7	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	20850	2510	15.41	17.20	1.51			0.11	0.627	0.947
	LTE Band 7	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	21350	2560	15.38	17.20	1.521			-0.05	0.568	0.864
	LTE Band 7	20M	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	21100	2535	15.35	17.20	1.531			0.13	0.603	0.923
	LTE Band 7	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	20850	2510	15.25	17.20	1.567			0.18	0.605	0.948
	LTE Band 7	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	21350	2560	15.21	17.20	1.581			-0.18	0.544	0.860
	LTE Band 7	20	QPSK	100	0	Back Top	5mm	Ant 3	DSI 7	Close	21100	2535	15.34	17.20	1.535			0.13	0.606	0.930



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	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 3	DSI 7	Close	21100	2535	15.43	17.20	1.503			0.11	0.022	0.033
	LTE Band 7	20M	QPSK	50	0	Left Side	5mm	Ant 3	DSI 7	Close	21100	2535	15.35	17.20	1.531			0.13	0.020	0.031
	LTE Band 7	20M	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	21100	2535	15.43	17.20	1.503			0.05	0.504	0.758
	LTE Band 7	20M	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	21100	2535	15.35	17.20	1.531			-0.05	0.500	0.766
	LTE Band 7	20M	QPSK	1	99	Back Top	5mm	Ant 3	DSI 7	Close	21100+21298	2535+2554.8	15.38	17.20	1.521			0.03	0.605	0.920
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 7	Close	21100	2535	18.08	19.70	1.452			-0.17	0.114	0.166
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 7	Close	21100	2535	17.94	19.70	1.5			-0.18	0.119	0.179
	LTE Band 7	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	21100	2535	18.08	19.70	1.452			0.15	0.744	1.080
	LTE Band 7	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	20850	2510	17.99	19.70	1.483			-0.06	0.660	0.979
37	LTE Band 7	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	21350	2560	18.02	19.70	1.472			-0.10	0.842	1.239
	LTE Band 7	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	21100	2535	17.94	19.70	1.5			-0.01	0.752	1.128
	LTE Band 7	20	QPSK	50	50	Back Right	5mm	Ant 4	DSI 7	Close	20850	2510	17.81	19.70	1.545			0.17	0.727	1.123
	LTE Band 7	20	QPSK	50	50	Back Right	5mm	Ant 4	DSI 7	Close	21350	2560	17.84	19.70	1.535			-0.02	0.797	1.223
	LTE Band 7	20	QPSK	100	0	Back Right	5mm	Ant 4	DSI 7	Close	21100	2535	18.07	19.70	1.455			-0.06	0.638	0.928
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	21100	2535	18.08	19.70	1.452			0.05	0.822	1.194
	LTE Band 7	20	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	20850	2510	17.99	19.70	1.483			-0.09	0.807	1.197
	LTE Band 7	20	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	21350	2560	18.02	19.70	1.472			-0.02	0.817	1.203
	LTE Band 7	20M	QPSK	50	0	Right Side	5mm	Ant 4	DSI 7	Close	21100	2535	17.94	19.70	1.5			0.11	0.817	1.225
	LTE Band 7	20	QPSK	50	50	Right Side	5mm	Ant 4	DSI 7	Close	20850	2510	17.81	19.70	1.545			0.15	0.768	1.187
	LTE Band 7	20	QPSK	50	50	Right Side	5mm	Ant 4	DSI 7	Close	21350	2560	17.84	19.70	1.535			0.08	0.786	1.207
	LTE Band 7	20	QPSK	100	0	Right Side	5mm	Ant 4	DSI 7	Close	21100	2535	18.07	19.70	1.455			-0.15	0.713	1.037
	LTE Band 7	20M	QPSK	1	0	Top Side	5mm	Ant 4	DSI 7	Close	21100	2535	18.08	19.70	1.452			0.03	0.154	0.224
	LTE Band 7	20M	QPSK	50	0	Top Side	5mm	Ant 4	DSI 7	Close	21100	2535	17.94	19.70	1.5			-0.05	0.142	0.213
	LTE Band 7	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	21350+21152	2560+2540.2	17.95	19.70	1.496			0.03	0.801	1.198
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 3	DSI 7	Close	26340	1880	17.99	19.40	1.384			0.02	0.247	0.342
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 3	DSI 7	Close	26340	1880	17.95	19.40	1.396			-0.03	0.234	0.327
38	LTE Band 25	20M	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	26340	1880	17.99	19.40	1.384			-0.05	0.929	1.286
	LTE Band 25	20M	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	26140	1860	17.95	19.40	1.396			-0.18	0.869	1.213
	LTE Band 25	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	26590	1905	17.91	19.40	1.409			0.09	0.847	1.193
	LTE Band 25	20M	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	26340	1880	17.95	19.40	1.396			-0.14	0.845	1.180
	LTE Band 25	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	26140	1860	17.91	19.40	1.409			0.05	0.907	1.278
	LTE Band 25	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	26590	1905	17.83	19.40	1.435			0.04	0.835	1.198
	LTE Band 25	20	QPSK	100	0	Back Top	5mm	Ant 3	DSI 7	Close	26340	1880	17.89	19.40	1.416			0.04	0.833	1.180
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 3	DSI 7	Close	26340	1880	17.99	19.40	1.384			-0.18	0.046	0.064
	LTE Band 25	20M	QPSK	50	0	Left Side	5mm	Ant 3	DSI 7	Close	26340	1880	17.95	19.40	1.396			0.10	0.054	0.075
	LTE Band 25	20M	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	26340	1880	17.99	19.40	1.384			-0.11	0.794	1.099
	LTE Band 25	20	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	26140	1860	17.95	19.40	1.396			-0.00	0.843	1.177
	LTE Band 25	20	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	26590	1905	17.91	19.40	1.409			0.10	0.700	0.986
	LTE Band 25	20M	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	26340	1880	17.95	19.40	1.396			0.13	0.774	1.081
	LTE Band 25	20	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	26140	1860	17.91	19.40	1.409			-0.16	0.825	1.162
	LTE Band 25	20	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	26590	1905	17.83	19.40	1.435			-0.18	0.679	0.974
	LTE Band 25	20	QPSK	100	0	Top Side	5mm	Ant 3	DSI 7	Close	26340	1880	17.89	19.40	1.416			-0.15	0.757	1.072
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 7	Close	26340	1880	21.67	23.00	1.358			-0.16	0.285	0.387
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 7	Close	26340	1880	20.68	22.00	1.355			-0.17	0.245	0.332
	LTE Band 25	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	26340	1880	21.67	23.00	1.358			-0.03	0.938	1.274
	LTE Band 25	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	26140	1860	21.65	23.00	1.365			-0.12	0.724	0.988
	LTE Band 25	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	26590	1905	21.62	23.00	1.374			0.14	0.858	1.179
	LTE Band 25	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	26340	1880	20.68	22.00	1.355			0.01	0.784	1.062
	LTE Band 25	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	26140	1860	20.60	22.00	1.38			0.08	0.645	0.890
	LTE Band 25	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	26590	1905	20.63	22.00	1.371			0.19	0.680	0.932
	LTE Band 25	20	QPSK	100	0	Back Right	5mm	Ant 4	DSI 7	Close	26340	1880	20.65	22.00	1.365			-0.19	0.741	1.011
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	26340	1880	21.67	23.00	1.358			-0.17	0.878	1.192
	LTE Band 25	20	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	26140	1860	21.65	23.00	1.365			-0.19	0.852	1.163
	LTE Band 25	20	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	26590	1905	21.62	23.00	1.374			0.00	0.857	1.178
	LTE Band 25	20M	QPSK	50	0	Right Side	5mm	Ant 4	DSI 7	Close	26340	1880	20.68	22.00	1.355			0.05	0.709	0.961
	LTE Band 25	20	QPSK	50	0	Right Side	5mm	Ant 4	DSI 7	Close	26140	1860	20.60	22.00	1.38			0.10	0.684	0.944
	LTE Band 25	20	QPSK	50	0	Right Side	5mm	Ant 4	DSI 7	Close	26590	1905	20.63	22.00	1.371			0.13	0.676	0.927
	LTE Band 25	20	QPSK	100	0	Right Side	5mm	Ant 4	DSI 7	Close	26340	1880	20.65	22.00	1.365			0.06	0.661	0.902
	LTE Band 25	20M	QPSK	1	0	Top Side	5mm	Ant 4	DSI 7	Close	26340	1880	21.67	23.00	1.358			-0.13	0.166	0.225
	LTE Band 25	20M	QPSK	50	0	Top Side	5mm	Ant 4	DSI 7	Close	26340	1880	20.68	22.00	1.355			0.14	0.159	0.215
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 3	DSI 7	Close	132322	1745	17.43	19.10	1.469			-0.12	0.262	0.385
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 3	DSI 7	Close	132322	1745	17.29	19.10	1.517			0.09	0.251	0.381
	LTE Band 66	20M	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	132322	1745	17.43	19.10	1.469			-0.02	0.901	1.324
	LTE Band 66	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	132072	1720	17.41	19.10	1.476			-0.13	0.853	1.259
	LTE Band 66	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	132572	1770	17.33	19.10	1.503			0.07	0.867	1.303
	LTE Band 66	20M	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	132322	1745	17.29	19.10	1.517			0.03	0.871	1.321
	LTE Band 66	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	132072	1720	17.15	19.10	1.567			0.14	0.837	1.312
	LTE Band 66	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	132572	1770	17.19	19.10	1.552			0.09	0.851	1.321
	LTE Band 66	20	QPSK	100	0	Back Top	5mm	Ant 3	DSI 7	Close	132322	1745	17.20	19.10	1.549			0.15	0.839	1.300
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 3	DSI 7	Close	132322	1745	17.43	19.10	1.469			0.18	0.046	0.068
	LTE Band 66	20M	QPSK	50	0	Left Side	5mm	Ant 3	DSI 7	Close	132322	1745	17.29	19.10	1.517			-0.17	0.044	0.067
39	LTE Band 66	20M	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	132322	1745	17.43	19.10	1.469			-0.02	0.983	1.444
	LTE Band 66	20	QPSK	1	0	Top Side	5mm													



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LTE Band 66	20M	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	132322	1745	17.29	19.10	1.517			-0.10	0.944	1.432
LTE Band 66	20	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	132072	1720	17.15	19.10	1.567			0.15	0.890	1.395
LTE Band 66	20	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	132572	1770	17.19	19.10	1.552			-0.08	0.918	1.425
LTE Band 66	20	QPSK	100	0	Top Side	5mm	Ant 3	DSI 7	Close	132322	1745	17.20	19.10	1.549			-0.02	0.882	1.366
LTE Band 66	20M	QPSK	1	99	Top Side	5mm	Ant 3	DSI 7	Close	132322+132520	1745+1764.8	17.33	19.10	1.503			0.02	0.902	1.356
LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 7	Close	132322	1745	21.23	22.80	1.435			-0.03	0.183	0.263
LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 7	Close	132322	1745	20.60	22.50	1.549			-0.16	0.148	0.229
LTE Band 66	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	132322	1745	21.23	22.80	1.435			-0.07	0.849	1.218
LTE Band 66	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	132072	1720	21.22	22.80	1.439			-0.14	0.837	1.204
LTE Band 66	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	132572	1770	21.19	22.80	1.449			0.04	0.707	1.024
LTE Band 66	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	132322	1745	20.60	22.50	1.549			-0.05	0.665	1.030
LTE Band 66	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	132072	1720	20.58	22.50	1.556			-0.09	0.677	1.053
LTE Band 66	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	132572	1770	20.50	22.50	1.585			0.17	0.567	0.899
LTE Band 66	20	QPSK	100	0	Back Right	5mm	Ant 4	DSI 7	Close	132322	1745	20.61	22.50	1.545			-0.15	0.587	0.907
LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	132322	1745	21.23	22.80	1.435			0.00	0.847	1.215
LTE Band 66	20	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	132072	1720	21.22	22.80	1.439			0.02	0.797	1.147
LTE Band 66	20	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	132572	1770	21.19	22.80	1.449			0.05	0.822	1.191
LTE Band 66	20M	QPSK	50	0	Right Side	5mm	Ant 4	DSI 7	Close	132322	1745	20.60	22.50	1.549			0.10	0.646	1.001
LTE Band 66	20	QPSK	50	0	Right Side	5mm	Ant 4	DSI 7	Close	132072	1720	20.58	22.50	1.556			-0.06	0.621	0.966
LTE Band 66	20	QPSK	50	0	Right Side	5mm	Ant 4	DSI 7	Close	132572	1770	20.50	22.50	1.585			-0.08	0.619	0.981
LTE Band 66	20	QPSK	100	0	Right Side	5mm	Ant 4	DSI 7	Close	132322	1745	20.61	22.50	1.545			-0.13	0.614	0.949
LTE Band 66	20M	QPSK	1	0	Top Side	5mm	Ant 4	DSI 7	Close	132322	1745	21.23	22.80	1.435			0.02	0.081	0.116
LTE Band 66	20M	QPSK	50	0	Top Side	5mm	Ant 4	DSI 7	Close	132322	1745	20.60	22.50	1.549			0.16	0.066	0.102
LTE Band 66	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 7	Close	132322+132520	1745+1764.8	21.20	22.80	1.445			0.05	0.801	1.157
LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 3	DSI 7	Close	40620	2593	17.62	18.60	1.253	62.9	1.006	0.03	0.180	0.227
LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 3	DSI 7	Close	40620	2593	17.53	18.60	1.279	62.9	1.006	-0.01	0.171	0.220
LTE Band 41	20M	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	40620	2593	17.62	18.60	1.253	62.9	1.006	0.03	0.639	0.805
LTE Band 41	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	39750	2506	17.55	18.60	1.274	62.9	1.006	0.05	0.605	0.775
LTE Band 41	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	40185	2549.5	17.59	18.60	1.262	62.9	1.006	0.17	0.631	0.801
LTE Band 41	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	41055	2636.5	17.59	18.60	1.262	62.9	1.006	0.04	0.622	0.790
LTE Band 41	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 7	Close	41490	2680	17.51	18.60	1.285	62.9	1.006	-0.03	0.601	0.777
LTE Band 41	20M	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	40620	2593	17.53	18.60	1.279	62.9	1.006	0.15	0.613	0.789
LTE Band 41	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	39750	2506	17.41	18.60	1.315	62.9	1.006	-0.07	0.581	0.769
LTE Band 41	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	40185	2549.5	17.44	18.60	1.306	62.9	1.006	0.01	0.595	0.782
LTE Band 41	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	41055	2636.5	17.51	18.60	1.285	62.9	1.006	-0.12	0.587	0.759
LTE Band 41	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 7	Close	41490	2680	17.47	18.60	1.297	62.9	1.006	0.04	0.582	0.759
LTE Band 41	20	QPSK	100	0	Back Top	5mm	Ant 3	DSI 7	Close	40620	2593	17.50	18.60	1.288	62.9	1.006	0.07	0.573	0.742
LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 3	DSI 7	Close	40620	2593	17.62	18.60	1.253	62.9	1.006	0.05	0.016	0.020
LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 3	DSI 7	Close	40620	2593	17.53	18.60	1.279	62.9	1.006	-0.11	0.017	0.022
LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	40620	2593	17.62	18.60	1.253	62.9	1.006	0.15	0.540	0.681
LTE Band 41	20	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	39750	2506	17.55	18.60	1.274	62.9	1.006	-0.14	0.515	0.660
LTE Band 41	20	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	40185	2549.5	17.59	18.60	1.262	62.9	1.006	0.00	0.675	0.857
LTE Band 41	20	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	41055	2636.5	17.59	18.60	1.262	62.9	1.006	0.05	0.507	0.644
LTE Band 41	20	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	41490	2680	17.51	18.60	1.285	62.9	1.006	-0.02	0.582	0.752
LTE Band 41	20M	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	40620	2593	17.53	18.60	1.279	62.9	1.006	0.11	0.527	0.678
LTE Band 41	20	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	39750	2506	17.41	18.60	1.315	62.9	1.006	0.01	0.494	0.654
LTE Band 41	20	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	40185	2549.5	17.44	18.60	1.306	62.9	1.006	-0.06	0.646	0.849
LTE Band 41	20	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	41055	2636.5	17.51	18.60	1.285	62.9	1.006	-0.12	0.491	0.635
LTE Band 41	20	QPSK	50	0	Top Side	5mm	Ant 3	DSI 7	Close	41490	2680	17.47	18.60	1.297	62.9	1.006	0.00	0.559	0.729
LTE Band 41	20	QPSK	100	0	Top Side	5mm	Ant 3	DSI 7	Close	40620	2593	17.50	18.60	1.288	62.9	1.006	0.12	0.523	0.678
LTE Band 41 HPUE	20	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	40620	2593	19.46	20.20	1.186	42.9	1.009	0.02	0.543	0.650
LTE Band 41 HPUE	20	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	39750	2506	19.32	20.20	1.225	42.9	1.009	0.11	0.527	0.651
LTE Band 41 HPUE	20	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	40185	2549.5	19.36	20.20	1.213	42.9	1.009	0.05	0.654	0.800
LTE Band 41 HPUE	20	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	41055	2636.5	19.41	20.20	1.199	42.9	1.009	0.09	0.503	0.609
LTE Band 41 HPUE	20	QPSK	1	0	Top Side	5mm	Ant 3	DSI 7	Close	41490	2680	19.45	20.20	1.189	42.9	1.009	0.03	0.588	0.705
LTE Band 41	20M	QPSK	1	99	Top Side	5mm	Ant 3	DSI 7	Close	40185+40383	2549.5+2569.3	17.41	18.60	1.315	62.9	1.006	0.02	0.632	0.836
LTE Band 41 HPUE	20M	QPSK	1	99	Top Side	5mm	Ant 3	DSI 7	Close	40185+40383	2549.5+2569.3	19.20	20.20	1.259	42.9	1.009	0.03	0.625	0.794
LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 7	Close	40620	2593	20.55	21.50	1.245	62.9	1.006	-0.14	0.077	0.096
LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 7	Close	40620	2593	20.09	21.50	1.384	62.9	1.006	0.16	0.060	0.084
LTE Band 41	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	40620	2593	20.55	21.50	1.245	62.9	1.006	-0.08	0.803	1.006
LTE Band 41	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	39750	2506	20.42	21.50	1.282	62.9	1.006	-0.02	0.593	0.765
LTE Band 41	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	40185	2549.5	20.45	21.50	1.274	62.9	1.006	-0.07	0.932	1.194
LTE Band 41	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	41055	2636.5	20.39	21.50	1.291	62.9	1.006	0.05	0.763	0.991
LTE Band 41	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	41490	2680	20.38	21.50	1.294	62.9	1.006	0.10	0.825	1.074
LTE Band 41	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	40620	2593	20.09	21.50	1.384	62.9	1.006	-0.05	0.749	1.043
LTE Band 41	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	39750	2506	20.02	21.50	1.406	62.9	1.006	-0.05	0.517	0.731
LTE Band 41	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	40185	2549.5	20.06	21.50	1.393	62.9	1.006	0.01	0.615	0.862
LTE Band 41	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	41055	2636.5	19.96	21.50	1.426	62.9	1.006	0.10	0.651	0.934
LTE Band 41	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	41490	2680	19.92	21.50	1.439	62.9	1.006	-0.03	0.660	0.955
LTE Band 41	20	QPSK	100	0	Back Right	5mm	Ant 4	DSI 7	Close	40620	2593	20.07	21.50	1.39	62.9	1.006	0.02	0.615	0.860



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	LTE Band 41	20M	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	40620	2593	20.55	21.50	1.245	62.9	1.006	-0.04	0.457	0.572
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 4	DSI 7	Close	40620	2593	20.09	21.50	1.384	62.9	1.006	0.05	0.397	0.553
	LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 4	DSI 7	Close	40620	2593	20.55	21.50	1.245	62.9	1.006	-0.10	0.075	0.094
	LTE Band 41	20M	QPSK	50	0	Top Side	5mm	Ant 4	DSI 7	Close	40620	2593	20.09	21.50	1.384	62.9	1.006	0.10	0.064	0.089
	LTE Band 41 HPUE	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	40620	2593	22.29	23.10	1.205	42.9	1.009	0.13	0.911	1.108
	LTE Band 41 HPUE	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	39750	2506	22.24	23.10	1.219	42.9	1.009	-0.15	0.602	0.740
	LTE Band 41 HPUE	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	40185	2549.5	22.27	23.10	1.211	42.9	1.009	0.05	0.928	1.134
	LTE Band 41 HPUE	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	41055	2636.5	22.18	23.10	1.236	42.9	1.009	0.00	0.749	0.934
	LTE Band 41 HPUE	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	41490	2680	22.21	23.10	1.227	42.9	1.009	-0.13	0.812	1.005
	LTE Band 41	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 7	Close	40185+40383	2549.5+2569.3	20.21	21.50	1.346	62.9	1.006	0.03	0.851	1.152
	LTE Band 41 HPUE	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 7	Close	40185+40383	2549.5+2569.3	22.13	23.10	1.25	42.9	1.009	0.05	0.835	1.053
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 7	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	0.09	0.044	0.054
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 7	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	-0.19	0.024	0.029
	LTE Band 42	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	-0.18	0.660	0.813
40	LTE Band 42	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	42190	3460	23.06	24.00	1.242	62.9	1.006	0.05	0.870	1.087
	LTE Band 42	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	42990	3540	23.02	24.00	1.253	62.9	1.006	0.11	0.594	0.749
	LTE Band 42	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	-0.02	0.319	0.390
	LTE Band 42	20	QPSK	100	0	Back Right	5mm	Ant 4	DSI 7	Close	42590	3500	22.13	23.00	1.222	62.9	1.006	-0.10	0.285	0.350
	LTE Band 42	20M	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	-0.01	0.474	0.584
	LTE Band 42	20M	QPSK	50	0	Right Side	5mm	Ant 4	DSI 7	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	-0.06	0.258	0.316
	LTE Band 42	20M	QPSK	1	0	Top Side	5mm	Ant 4	DSI 7	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	-0.02	0.134	0.165
	LTE Band 42	20M	QPSK	50	0	Top Side	5mm	Ant 4	DSI 7	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	-0.08	0.076	0.093
	LTE Band 42	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 7	Close	42190+42388	3460+3479.8	23.00	24.00	1.259	62.9	1.006	0.03	0.771	0.977
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 6	DSI 7	Close	42590	3500	20.04	21.50	1.4	62.9	1.006	-0.12	0.123	0.173
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 6	DSI 7	Close	42590	3500	19.93	21.50	1.435	62.9	1.006	-0.13	0.066	0.095
	LTE Band 42	20M	QPSK	1	0	Back Top	5mm	Ant 6	DSI 7	Close	42590	3500	20.04	21.50	1.4	62.9	1.006	-0.04	0.570	0.803
	LTE Band 42	20	QPSK	1	0	Back Top	5mm	Ant 6	DSI 7	Close	42190	3460	20.02	21.50	1.406	62.9	1.006	0.04	0.678	0.959
	LTE Band 42	20	QPSK	1	0	Back Top	5mm	Ant 6	DSI 7	Close	42990	3540	20.03	21.50	1.403	62.9	1.006	-0.13	0.599	0.845
	LTE Band 42	20M	QPSK	50	0	Back Top	5mm	Ant 6	DSI 7	Close	42590	3500	19.93	21.50	1.435	62.9	1.006	-0.11	0.331	0.478
	LTE Band 42	20	QPSK	100	0	Back Top	5mm	Ant 6	DSI 7	Close	42190	3460	19.86	21.50	1.459	62.9	1.006	-0.18	0.620	0.910
	LTE Band 42	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI 7	Close	42590	3500	20.04	21.50	1.4	62.9	1.006	0.05	0.048	0.068
	LTE Band 42	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI 7	Close	42590	3500	19.93	21.50	1.435	62.9	1.006	0.16	0.027	0.039
	LTE Band 42	20M	QPSK	1	0	Top Side	5mm	Ant 6	DSI 7	Close	42590	3500	20.04	21.50	1.4	62.9	1.006	0.15	0.462	0.651
	LTE Band 42	20M	QPSK	50	0	Top Side	5mm	Ant 6	DSI 7	Close	42590	3500	19.93	21.50	1.435	62.9	1.006	-0.08	0.275	0.397
	LTE Band 42	20M	QPSK	1	99	Back Top	5mm	Ant 6	DSI 7	Close	42190+42388	3460+3479.8	19.85	21.50	1.462	62.9	1.006	0.03	0.601	0.884
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 8	DSI 7	Close	42590	3500	19.21	20.70	1.409	62.9	1.006	-0.13	0.104	0.147
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 8	DSI 7	Close	42590	3500	19.10	20.70	1.445	62.9	1.006	-0.15	0.099	0.144
	LTE Band 42	20M	QPSK	1	0	Back Top	5mm	Ant 8	DSI 7	Close	42590	3500	19.21	20.70	1.409	62.9	1.006	0.11	0.609	0.863
	LTE Band 42	20	QPSK	1	0	Back Top	5mm	Ant 8	DSI 7	Close	42190	3460	19.20	20.70	1.413	62.9	1.006	-0.15	0.575	0.817
	LTE Band 42	20	QPSK	1	0	Back Top	5mm	Ant 8	DSI 7	Close	42990	3540	19.19	20.70	1.416	62.9	1.006	-0.17	0.585	0.833
	LTE Band 42	20M	QPSK	50	0	Back Top	5mm	Ant 8	DSI 7	Close	42590	3500	19.10	20.70	1.445	62.9	1.006	0.15	0.585	0.850
	LTE Band 42	20	QPSK	50	0	Back Top	5mm	Ant 8	DSI 7	Close	42190	3460	19.08	20.70	1.452	62.9	1.006	-0.07	0.551	0.805
	LTE Band 42	20	QPSK	50	0	Back Top	5mm	Ant 8	DSI 7	Close	42990	3540	19.05	20.70	1.462	62.9	1.006	-0.05	0.559	0.822
	LTE Band 42	20	QPSK	100	0	Back Top	5mm	Ant 8	DSI 7	Close	42590	3500	18.98	20.70	1.486	62.9	1.006	-0.09	0.553	0.827
	LTE Band 42	20M	QPSK	1	0	Left Side	5mm	Ant 8	DSI 7	Close	42590	3500	19.21	20.70	1.409	62.9	1.006	-0.09	0.097	0.137
	LTE Band 42	20M	QPSK	50	0	Left Side	5mm	Ant 8	DSI 7	Close	42590	3500	19.10	20.70	1.445	62.9	1.006	-0.08	0.094	0.137
	LTE Band 42	20M	QPSK	1	0	Top Side	5mm	Ant 8	DSI 7	Close	42590	3500	19.21	20.70	1.409	62.9	1.006	-0.16	0.691	0.979
	LTE Band 42	20	QPSK	1	0	Top Side	5mm	Ant 8	DSI 7	Close	42190	3460	19.20	20.70	1.413	62.9	1.006	-0.06	0.696	0.989
	LTE Band 42	20	QPSK	1	0	Top Side	5mm	Ant 8	DSI 7	Close	42990	3540	19.19	20.70	1.416	62.9	1.006	0.16	0.689	0.981
	LTE Band 42	20M	QPSK	50	0	Top Side	5mm	Ant 8	DSI 7	Close	42590	3500	19.10	20.70	1.445	62.9	1.006	0.08	0.663	0.964
	LTE Band 42	20	QPSK	50	0	Top Side	5mm	Ant 8	DSI 7	Close	42190	3460	19.08	20.70	1.452	62.9	1.006	0.10	0.659	0.963
	LTE Band 42	20	QPSK	50	0	Top Side	5mm	Ant 8	DSI 7	Close	42990	3540	19.05	20.70	1.462	62.9	1.006	0.15	0.649	0.955
	LTE Band 42	20	QPSK	100	0	Top Side	5mm	Ant 8	DSI 7	Close	42590	3500	18.98	20.70	1.486	62.9	1.006	-0.09	0.625	0.934
	LTE Band 42	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 7	Close	42190+42388	3460+3479.8	19.00	20.70	1.479	62.9	1.006	0.05	0.601	0.894
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 7	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	-0.03	0.060	0.073
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 7	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	0.14	0.059	0.072
	LTE Band 48	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	0.14	0.664	0.812
	LTE Band 48	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	55340	3560	22.97	24.00	1.268	62.9	1.006	-0.08	0.735	0.938
	LTE Band 48	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	56150	3641	22.95	24.00	1.274	62.9	1.006	-0.17	0.594	0.761
	LTE Band 48	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 7	Close	56640	3690	23.09	24.00	1.233	62.9	1.006	0.08	0.650	0.806
	LTE Band 48	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	-0.14	0.549	0.669
	LTE Band 48	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	55340	3560	22.11	23.00	1.227	62.9	1.006	0.08	0.652	0.805
	LTE Band 48	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	56150	3641	22.03	23.00	1.25	62.9	1.006	0.18	0.481	0.605
	LTE Band 48	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 7	Close	56640	3690	22.09	23.00	1.233	62.9	1.006	-0.02	0.527	0.654
	LTE Band 48	20	QPSK	100	0	Back Right	5mm	Ant 4	DSI 7	Close	55830	3609	22.11	23.00	1.227	62.9	1.006	-0.12	0.471	0.581
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	0.05	0.504	0.617
	LTE Band 48	20	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	55340	3560	22.97	24.00	1.268	62.9	1.006	0.07	0.470	0.600
	LTE Band 48	20	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	Close	56150	3641	22.							



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	LTE Band 48	20M	QPSK	1	0	Top Side	5mm	Ant 4	DSI 7	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	-0.16	0.186	0.228
	LTE Band 48	20M	QPSK	50	0	Top Side	5mm	Ant 4	DSI 7	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	0.01	0.153	0.186
	LTE Band 48	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 7	Close	55340+55538	3560+3579.8	22.93	24.00	1.279	62.9	1.006	0.03	0.685	0.881
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 6	DSI 7	Close	55830	3609	20.08	21.50	1.387	62.9	1.006	0.13	0.070	0.098
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 6	DSI 7	Close	55830	3609	19.91	21.50	1.442	62.9	1.006	-0.15	0.065	0.094
	LTE Band 48	20M	QPSK	1	0	Back Top	5mm	Ant 6	DSI 7	Close	55830	3609	20.08	21.50	1.387	62.9	1.006	-0.18	0.432	0.603
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 6	DSI 7	Close	55340	3560	20.05	21.50	1.396	62.9	1.006	0.16	0.614	0.862
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 6	DSI 7	Close	56150	3641	20.03	21.50	1.403	62.9	1.006	0.08	0.535	0.755
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 6	DSI 7	Close	56640	3690	19.98	21.50	1.419	62.9	1.006	0.18	0.509	0.727
	LTE Band 48	20M	QPSK	50	0	Back Top	5mm	Ant 6	DSI 7	Close	55830	3609	19.91	21.50	1.442	62.9	1.006	-0.11	0.573	0.831
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 6	DSI 7	Close	55340	3560	19.81	21.50	1.476	62.9	1.006	0.00	0.626	0.930
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 6	DSI 7	Close	56150	3641	19.82	21.50	1.472	62.9	1.006	-0.07	0.579	0.857
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 6	DSI 7	Close	56640	3690	19.90	21.50	1.445	62.9	1.006	0.09	0.520	0.756
	LTE Band 48	20	QPSK	100	0	Back Top	5mm	Ant 6	DSI 7	Close	55830	3609	19.80	21.50	1.479	62.9	1.006	0.03	0.559	0.832
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI 7	Close	55830	3609	20.08	21.50	1.387	62.9	1.006	-0.04	0.043	0.060
	LTE Band 48	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI 7	Close	55830	3609	19.91	21.50	1.442	62.9	1.006	-0.07	0.040	0.058
	LTE Band 48	20M	QPSK	1	0	Top Side	5mm	Ant 6	DSI 7	Close	55830	3609	20.08	21.50	1.387	62.9	1.006	0.10	0.531	0.741
	LTE Band 48	20	QPSK	1	0	Top Side	5mm	Ant 6	DSI 7	Close	55340	3560	20.05	21.50	1.396	62.9	1.006	0.04	0.519	0.729
	LTE Band 48	20	QPSK	1	0	Top Side	5mm	Ant 6	DSI 7	Close	56150	3641	20.03	21.50	1.403	62.9	1.006	-0.07	0.514	0.725
	LTE Band 48	20	QPSK	1	0	Top Side	5mm	Ant 6	DSI 7	Close	56640	3690	19.98	21.50	1.419	62.9	1.006	0.08	0.525	0.749
	LTE Band 48	20M	QPSK	50	0	Top Side	5mm	Ant 6	DSI 7	Close	55830	3609	19.91	21.50	1.442	62.9	1.006	-0.15	0.545	0.791
	LTE Band 48	20	QPSK	50	0	Top Side	5mm	Ant 6	DSI 7	Close	55340	3560	19.81	21.50	1.476	62.9	1.006	-0.07	0.529	0.785
	LTE Band 48	20	QPSK	50	0	Top Side	5mm	Ant 6	DSI 7	Close	56150	3641	19.82	21.50	1.472	62.9	1.006	0.14	0.516	0.764
	LTE Band 48	20	QPSK	50	0	Top Side	5mm	Ant 6	DSI 7	Close	56640	3690	19.90	21.50	1.445	62.9	1.006	0.09	0.537	0.781
	LTE Band 48	20M	QPSK	1	99	Back Top	5mm	Ant 6	DSI 7	Close	55340+55538	3560+3579.8	19.93	21.50	1.435	62.9	1.006	0.03	0.583	0.842
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 8	DSI 7	Close	55830	3609	19.82	21.10	1.343	62.9	1.006	-0.04	0.153	0.207
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 8	DSI 7	Close	55830	3609	19.70	21.10	1.38	62.9	1.006	-0.11	0.148	0.205
	LTE Band 48	20M	QPSK	1	0	Back Top	5mm	Ant 8	DSI 7	Close	55830	3609	19.82	21.10	1.343	62.9	1.006	0.10	0.755	1.020
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 8	DSI 7	Close	55340	3560	19.68	21.10	1.387	62.9	1.006	0.18	0.705	0.984
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 8	DSI 7	Close	56150	3641	19.77	21.10	1.358	62.9	1.006	0.05	0.744	1.016
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 8	DSI 7	Close	56640	3690	19.69	21.10	1.384	62.9	1.006	-0.13	0.639	0.890
	LTE Band 48	20M	QPSK	50	0	Back Top	5mm	Ant 8	DSI 7	Close	55830	3609	19.70	21.10	1.38	62.9	1.006	-0.02	0.702	0.975
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 8	DSI 7	Close	55340	3560	19.56	21.10	1.426	62.9	1.006	0.15	0.687	0.986
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 8	DSI 7	Close	56150	3641	19.62	21.10	1.406	62.9	1.006	0.18	0.697	0.986
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 8	DSI 7	Close	56640	3690	19.69	21.10	1.384	62.9	1.006	0.13	0.681	0.948
	LTE Band 48	20	QPSK	100	0	Back Top	5mm	Ant 8	DSI 7	Close	55830	3609	19.56	21.10	1.426	62.9	1.006	-0.11	0.693	0.994
	LTE Band 48	20M	QPSK	1	0	Left Side	5mm	Ant 8	DSI 7	Close	55830	3609	19.82	21.10	1.343	62.9	1.006	-0.14	0.144	0.195
	LTE Band 48	20M	QPSK	50	0	Left Side	5mm	Ant 8	DSI 7	Close	55830	3609	19.70	21.10	1.38	62.9	1.006	0.02	0.147	0.204
	LTE Band 48	20M	QPSK	1	0	Top Side	5mm	Ant 8	DSI 7	Close	55830	3609	19.82	21.10	1.343	62.9	1.006	-0.05	0.804	1.086
	LTE Band 48	20	QPSK	1	0	Top Side	5mm	Ant 8	DSI 7	Close	55340	3560	19.68	21.10	1.387	62.9	1.006	-0.07	0.772	1.077
	LTE Band 48	20	QPSK	1	0	Top Side	5mm	Ant 8	DSI 7	Close	56150	3641	19.77	21.10	1.358	62.9	1.006	0.11	0.775	1.059
	LTE Band 48	20	QPSK	1	0	Top Side	5mm	Ant 8	DSI 7	Close	56640	3690	19.69	21.10	1.384	62.9	1.006	-0.15	0.772	1.075
	LTE Band 48	20M	QPSK	50	0	Top Side	5mm	Ant 8	DSI 7	Close	55830	3609	19.70	21.10	1.38	62.9	1.006	0.06	0.770	1.069
	LTE Band 48	20	QPSK	50	0	Top Side	5mm	Ant 8	DSI 7	Close	55340	3560	19.56	21.10	1.426	62.9	1.006	0.15	0.748	1.073
	LTE Band 48	20	QPSK	50	0	Top Side	5mm	Ant 8	DSI 7	Close	56150	3641	19.62	21.10	1.406	62.9	1.006	0.14	0.736	1.041
	LTE Band 48	20	QPSK	50	0	Top Side	5mm	Ant 8	DSI 7	Close	56640	3690	19.69	21.10	1.384	62.9	1.006	0.02	0.738	1.028
	LTE Band 48	20	QPSK	100	0	Top Side	5mm	Ant 8	DSI 7	Close	55830	3609	19.56	21.10	1.426	62.9	1.006	0.03	0.724	1.039
	LTE Band 48	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 7	Close	55830+56028	3609+3628.8	19.74	21.10	1.368	62.9	1.006	0.01	0.756	1.040

【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 3	DSI 7	Close	507000	2535	15.12	16.70	1.439			-0.09	0.157	0.226
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 3	DSI 7	Close	507000	2535	15.11	16.70	1.442			-0.10	0.207	0.298
	FR1 n7	50M	BPSK	1	1	Back Top	5mm	Ant 3	DSI 7	Close	507000	2535	15.12	16.70	1.439			-0.06	0.547	0.787
	FR1 n7	50M	BPSK	135	68	Back Top	5mm	Ant 3	DSI 7	Close	507000	2535	15.11	16.70	1.442			0.01	0.726	1.047
	FR1 n7	50	BPSK	270	0	Back Top	5mm	Ant 3	DSI 7	Close	507000	2535	15.09	16.70	1.449			-0.04	0.716	1.037
	FR1 n7	50M	BPSK	1	1	Left Side	5mm	Ant 3	DSI 7	Close	507000	2535	15.12	16.70	1.439			0.18	0.017	0.024
	FR1 n7	50M	BPSK	135	68	Left Side	5mm	Ant 3	DSI 7	Close	507000	2535	15.11	16.70	1.442			0.06	0.025	0.036
	FR1 n7	50M	BPSK	1	1	Top Side	5mm	Ant 3	DSI 7	Close	507000	2535	15.12	16.70	1.439			-0.08	0.772	1.111
41	FR1 n7	50M	BPSK	135	68	Top Side	5mm	Ant 3	DSI 7	Close	507000	2535	15.11	16.70	1.442			0.00	0.875	1.262
	FR1 n7	50	BPSK	270	0	Top Side	5mm	Ant 3	DSI 7	Close	507000	2535	15.09	16.70	1.449			-0.10	0.823	1.193
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 4	DSI 7	Close	507000	2535	19.19	20.80	1.449			0.12	0.068	0.099
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 4	DSI 7	Close	507000	2535	19.17	20.80	1.455			-0.13	0.078	0.113
	FR1 n7	50M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 7	Close	507000	2535	19.19	20.80	1.449			-0.13	0.692	1.003
	FR1 n7	50M	BPSK	135	68	Back Right	5mm	Ant 4	DSI 7	Close	507000	2535	19.17	20.80	1.455			-0.03	0.717	1.043
	FR1 n7	50	BPSK	270	0	Back Right	5mm	Ant 4	DSI 7	Close	507000	2535	19.11	20.80	1.476			0.19	0.675	0.996
	FR1 n7	50M	BPSK	1	1	Right Side	5mm	Ant 4	DSI 7	Close	507000	2535	19.19	20.80	1.449			-0.13	0.706	1.023
	FR1 n7	50M	BPSK	135	68	Right Side	5mm	Ant 4	DSI 7	Close	507000	2535	19.17	20.80	1.455			-0.13	0.771	1.122
	FR1 n7	50	BPSK	270	0	Right Side	5mm	Ant 4	DSI 7	Close	507000	2535	19.11	20.80	1.476			-0.08	0.723	1.067



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	FR1 n7	50M	BPSK	1	1	Top Side	5mm	Ant 4	DSI 7	Close	507000	2535	19.19	20.80	1.449			-0.17	0.140	0.203
	FR1 n7	50M	BPSK	135	68	Top Side	5mm	Ant 4	DSI 7	Close	507000	2535	19.17	20.80	1.455			0.11	0.138	0.201
	FR1 n25	40M	BPSK	1	1	Front	5mm	Ant 3	DSI 7	Close	376500	1882.5	17.34	18.90	1.432			0.09	0.192	0.275
	FR1 n25	40M	BPSK	108	54	Front	5mm	Ant 3	DSI 7	Close	376500	1882.5	17.31	18.90	1.442			-0.11	0.174	0.251
	FR1 n25	40M	BPSK	1	1	Back Top	5mm	Ant 3	DSI 7	Close	376500	1882.5	17.34	18.90	1.432			-0.05	0.873	1.250
	FR1 n25	40M	BPSK	108	54	Back Top	5mm	Ant 3	DSI 7	Close	376500	1882.5	17.31	18.90	1.442			-0.05	0.707	1.019
	FR1 n25	40M	BPSK	216	0	Back Top	5mm	Ant 3	DSI 7	Close	376500	1882.5	17.28	18.90	1.452			0.04	0.801	1.163
	FR1 n25	40M	BPSK	1	1	Left Side	5mm	Ant 3	DSI 7	Close	376500	1882.5	17.34	18.90	1.432			-0.03	0.046	0.066
	FR1 n25	40M	BPSK	108	54	Left Side	5mm	Ant 3	DSI 7	Close	376500	1882.5	17.31	18.90	1.442			-0.11	0.041	0.059
42	FR1 n25	40M	BPSK	1	1	Top Side	5mm	Ant 3	DSI 7	Close	376500	1882.5	17.34	18.90	1.432			-0.03	0.897	1.285
	FR1 n25	40M	BPSK	108	54	Top Side	5mm	Ant 3	DSI 7	Close	376500	1882.5	17.31	18.90	1.442			0.06	0.805	1.161
	FR1 n25	40M	BPSK	216	0	Top Side	5mm	Ant 3	DSI 7	Close	376500	1882.5	17.28	18.90	1.452			-0.07	0.852	1.237
	FR1 n66	45M	BPSK	1	1	Front	5mm	Ant 3	DSI 7	Close	349000	1745	17.63	18.80	1.309			0.16	0.235	0.308
	FR1 n66	45M	BPSK	120	60	Front	5mm	Ant 3	DSI 7	Close	349000	1745	17.60	18.80	1.318			0.15	0.261	0.344
	FR1 n66	45M	BPSK	1	1	Back Top	5mm	Ant 3	DSI 7	Close	349000	1745	17.63	18.80	1.309			-0.02	0.700	0.916
	FR1 n66	45M	BPSK	120	60	Back Top	5mm	Ant 3	DSI 7	Close	349000	1745	17.60	18.80	1.318			-0.11	0.788	1.039
	FR1 n66	45M	BPSK	240	0	Back Top	5mm	Ant 3	DSI 7	Close	349000	1745	17.53	18.80	1.34			0.09	0.702	0.941
	FR1 n66	45M	BPSK	1	1	Left Side	5mm	Ant 3	DSI 7	Close	349000	1745	17.63	18.80	1.309			0.13	0.046	0.060
	FR1 n66	45M	BPSK	120	60	Left Side	5mm	Ant 3	DSI 7	Close	349000	1745	17.60	18.80	1.318			-0.09	0.052	0.069
	FR1 n66	45M	BPSK	1	1	Top Side	5mm	Ant 3	DSI 7	Close	349000	1745	17.63	18.80	1.309			0.15	0.917	1.200
43	FR1 n66	45M	BPSK	120	60	Top Side	5mm	Ant 3	DSI 7	Close	349000	1745	17.60	18.80	1.318			0.08	0.967	1.275
	FR1 n66	45M	BPSK	240	0	Top Side	5mm	Ant 3	DSI 7	Close	349000	1745	17.53	18.80	1.34			-0.09	0.939	1.258
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 3	DSI 7	Close	518598	2592.99	15.60	16.40	1.202			0.01	0.323	0.388
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 3	DSI 7	Close	518598	2592.99	15.58	16.40	1.208			0.11	0.236	0.285
	FR1 n41	100M	BPSK	1	1	Back Top	5mm	Ant 3	DSI 7	Close	518598	2592.99	15.60	16.40	1.202			-0.01	0.959	1.153
	FR1 n41	100M	BPSK	135	69	Back Top	5mm	Ant 3	DSI 7	Close	518598	2592.99	15.58	16.40	1.208			-0.14	0.623	0.753
	FR1 n41	100M	BPSK	270	0	Back Top	5mm	Ant 3	DSI 7	Close	518598	2592.99	15.53	16.40	1.222			0.11	0.682	0.833
	FR1 n41	100M	BPSK	1	1	Left Side	5mm	Ant 3	DSI 7	Close	518598	2592.99	15.60	16.40	1.202			0.07	0.036	0.043
	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 3	DSI 7	Close	518598	2592.99	15.58	16.40	1.208			-0.05	0.025	0.030
	FR1 n41	100M	BPSK	1	1	Top Side	5mm	Ant 3	DSI 7	Close	518598	2592.99	15.60	16.40	1.202			0.00	1.000	1.202
	FR1 n41	100M	BPSK	135	69	Top Side	5mm	Ant 3	DSI 7	Close	518598	2592.99	15.58	16.40	1.208			-0.10	0.770	0.930
	FR1 n41	100M	BPSK	270	0	Top Side	5mm	Ant 3	DSI 7	Close	518598	2592.99	15.53	16.40	1.222			0.06	0.827	1.011
	FR1 n41 HPUE	100M	BPSK	1	1	Top Side	5mm	Ant 3	DSI 7	Close	518598	2592.99	18.47	19.40	1.239	50.0	1.0	-0.12	0.887	1.099
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 4	DSI 7	Close	518598	2592.99	19.60	21.20	1.445			0.16	0.085	0.123
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 4	DSI 7	Close	518598	2592.99	19.58	21.20	1.452			0.08	0.105	0.152
	FR1 n41	100M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 7	Close	518598	2592.99	19.60	21.20	1.445			0.10	0.864	1.248
	FR1 n41	100M	BPSK	135	69	Back Right	5mm	Ant 4	DSI 7	Close	518598	2592.99	19.58	21.20	1.452			0.03	0.769	1.117
44	FR1 n41	100M	BPSK	270	0	Back Right	5mm	Ant 4	DSI 7	Close	518598	2592.99	19.54	21.20	1.466			-0.08	0.869	1.274
	FR1 n41	100M	BPSK	1	1	Right Side	5mm	Ant 4	DSI 7	Close	518598	2592.99	19.60	21.20	1.445			0.19	0.832	1.202
	FR1 n41	100M	BPSK	135	69	Right Side	5mm	Ant 4	DSI 7	Close	518598	2592.99	19.58	21.20	1.452			-0.05	0.873	1.268
	FR1 n41	100M	BPSK	270	0	Right Side	5mm	Ant 4	DSI 7	Close	518598	2592.99	19.54	21.20	1.466			-0.05	0.817	1.198
	FR1 n41	100M	BPSK	1	1	Top Side	5mm	Ant 4	DSI 7	Close	518598	2592.99	19.60	21.20	1.445			0.19	0.132	0.191
	FR1 n41	100M	BPSK	135	69	Top Side	5mm	Ant 4	DSI 7	Close	518598	2592.99	19.58	21.20	1.452			-0.02	0.141	0.205
	FR1 n41 HPUE	100M	BPSK	270	0	Back Right	5mm	Ant 4	DSI 7	Close	518598	2592.99	22.33	24.20	1.538	50.0	1.0	0.06	0.791	1.217
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 4	DSI 7	Close	641666	3624.99	20.15	21.70	1.429			0.11	0.043	0.061
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 4	DSI 7	Close	641666	3624.99	20.13	21.70	1.435			-0.19	0.041	0.059
	FR1 n48	40M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 7	Close	641666	3624.99	20.15	21.70	1.429			-0.01	0.724	1.035
	FR1 n48	40M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 7	Close	638000	3570	20.11	21.70	1.442			0.10	0.658	0.949
	FR1 n48	40M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 7	Close	645332	3679.98	20.09	21.70	1.449			-0.02	0.734	1.064
	FR1 n48	40M	BPSK	50	28	Back Right	5mm	Ant 4	DSI 7	Close	641666	3624.99	20.13	21.70	1.435			-0.07	0.846	1.214
	FR1 n48	40M	BPSK	50	28	Back Right	5mm	Ant 4	DSI 7	Close	638000	3570	20.05	21.70	1.462			-0.16	0.861	1.259
45	FR1 n48	40M	BPSK	50	28	Back Right	5mm	Ant 4	DSI 7	Close	645332	3679.98	20.08	21.70	1.452			0.11	0.876	1.272
	FR1 n48	40M	BPSK	100	0	Back Right	5mm	Ant 4	DSI 7	Close	641666	3624.99	20.10	21.70	1.445			-0.16	0.795	1.149
	FR1 n48	40M	BPSK	1	1	Right Side	5mm	Ant 4	DSI 7	Close	641666	3624.99	20.15	21.70	1.429			-0.04	0.518	0.740
	FR1 n48	40M	BPSK	1	1	Right Side	5mm	Ant 4	DSI 7	Close	638000	3570	20.11	21.70	1.442			0.17	0.490	0.707
	FR1 n48	40M	BPSK	1	1	Right Side	5mm	Ant 4	DSI 7	Close	645332	3679.98	20.09	21.70	1.449			-0.10	0.486	0.704
	FR1 n48	40M	BPSK	50	28	Right Side	5mm	Ant 4	DSI 7	Close	641666	3624.99	20.13	21.70	1.435			0.11	0.513	0.736
	FR1 n48	40M	BPSK	50	28	Right Side	5mm	Ant 4	DSI 7	Close	638000	3570	20.05	21.70	1.462			-0.08	0.494	0.722
	FR1 n48	40M	BPSK	50	28	Right Side	5mm	Ant 4	DSI 7	Close	645332	3679.98	20.08	21.70	1.452			-0.16	0.495	0.719
	FR1 n48	40M	BPSK	1	1	Top Side	5mm	Ant 4	DSI 7	Close	641666	3624.99	20.15	21.70	1.429			0.17	0.206	0.294
	FR1 n48	40M	BPSK	50	28	Top Side	5mm	Ant 4	DSI 7	Close	641666	3624.99	20.13	21.70	1.435			0.18	0.217	0.311
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 6	DSI 7	Close	641666	3624.99	21.34	22.70	1.368			-0.18	0.057	0.078
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 6	DSI 7	Close	641666	3624.99	21.32	22.70	1.374			-0.16	0.061	0.084
	FR1 n48	40M	BPSK	1	1	Back Top	5mm	Ant 6	DSI 7	Close	641666	3624.99	21.34	22.70	1.368			-0.13	0.491	0.672
	FR1 n48	40M	BPSK	1	1	Back Top	5mm	Ant 6	DSI 7	Close	638000	3570	21.31	22.70	1.377			0.04	0.456	0.628
	FR1 n48	40M	BPSK	1	1	Back Top	5mm	Ant 6	DSI 7	Close	645332	3679.98	21.27	22.70	1.39			-0.02	0.442	0.614
	FR1 n48	40M	BPSK	50	28	Back Top	5mm	Ant 6	DSI 7	Close	641666	3624.99	21.32	22.70	1.374			-0.17	0.494	0.679
	FR1 n48	40M	BPSK	50	28	Back Top	5mm	Ant 6	DSI 7	Close	638000	3570	21.28	22.70	1.387			0.04	0.470	0.652
	FR1 n48	40M	BPSK	50	28	Back Top	5mm	Ant 6	DSI 7	Close	645332	3679.98	21.25	22.70	1.396			0.11	0.463	0.646
	FR1 n48	40M	BPSK	1	1	Right Side	5mm	Ant 6	DSI 7	Close	641666	3624.99	21.34	22.70	1.368			0.01	0.050	0.068
	FR1 n48	40M	BPSK	50	28	Right Side	5mm	Ant 6	DSI 7	Close	641666	3624.99	21.32	22.70	1.374</					



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FR1 n48	40	BPSK	1	1	Top Side	5mm	Ant 6	DSI 7	Close	638000	3570	21.31	22.70	1.377			0.12	0.641	0.883
FR1 n48	40	BPSK	1	1	Top Side	5mm	Ant 6	DSI 7	Close	645332	3679.98	21.27	22.70	1.39			-0.01	0.518	0.720
FR1 n48	40M	BPSK	50	28	Top Side	5mm	Ant 6	DSI 7	Close	641666	3624.99	21.32	22.70	1.374			0.12	0.680	0.934
FR1 n48	40	BPSK	50	28	Top Side	5mm	Ant 6	DSI 7	Close	638000	3570	21.28	22.70	1.387			0.11	0.514	0.713
FR1 n48	40	BPSK	50	28	Top Side	5mm	Ant 6	DSI 7	Close	645332	3679.98	21.25	22.70	1.396			-0.02	0.672	0.938
FR1 n48	40	BPSK	100	0	Top Side	5mm	Ant 6	DSI 7	Close	641666	3624.99	21.29	22.70	1.384			0.09	0.601	0.832
FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 8	DSI 7	Close	641666	3624.99	16.56	18.20	1.459			-0.01	0.148	0.216
FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 8	DSI 7	Close	641666	3624.99	16.52	18.20	1.472			-0.16	0.139	0.205
FR1 n48	40M	BPSK	1	1	Back Top	5mm	Ant 8	DSI 7	Close	641666	3624.99	16.56	18.20	1.459			0.15	0.727	1.061
FR1 n48	40	BPSK	1	1	Back Top	5mm	Ant 8	DSI 7	Close	638000	3570	16.52	18.20	1.472			-0.06	0.709	1.044
FR1 n48	40	BPSK	1	1	Back Top	5mm	Ant 8	DSI 7	Close	645332	3679.98	16.50	18.20	1.479			0.12	0.700	1.035
FR1 n48	40M	BPSK	50	28	Back Top	5mm	Ant 8	DSI 7	Close	641666	3624.99	16.52	18.20	1.472			-0.14	0.738	1.086
FR1 n48	40	BPSK	50	28	Back Top	5mm	Ant 8	DSI 7	Close	638000	3570	16.46	18.20	1.493			-0.11	0.721	1.076
FR1 n48	40	BPSK	50	28	Back Top	5mm	Ant 8	DSI 7	Close	645332	3679.98	16.49	18.20	1.483			0.06	0.686	1.017
FR1 n48	40	BPSK	100	0	Back Top	5mm	Ant 8	DSI 7	Close	641666	3624.99	16.42	18.20	1.507			-0.14	0.660	0.995
FR1 n48	40M	BPSK	1	1	Left Side	5mm	Ant 8	DSI 7	Close	641666	3624.99	16.56	18.20	1.459			0.18	0.174	0.254
FR1 n48	40M	BPSK	50	28	Left Side	5mm	Ant 8	DSI 7	Close	641666	3624.99	16.52	18.20	1.472			-0.10	0.160	0.236
FR1 n48	40M	BPSK	1	1	Top Side	5mm	Ant 8	DSI 7	Close	641666	3624.99	16.56	18.20	1.459			-0.12	0.788	1.150
FR1 n48	40	BPSK	1	1	Top Side	5mm	Ant 8	DSI 7	Close	638000	3570	16.52	18.20	1.472			-0.10	0.788	1.160
FR1 n48	40	BPSK	1	1	Top Side	5mm	Ant 8	DSI 7	Close	645332	3679.98	16.50	18.20	1.479			-0.19	0.825	1.220
FR1 n48	40M	BPSK	50	28	Top Side	5mm	Ant 8	DSI 7	Close	641666	3624.99	16.52	18.20	1.472			0.11	0.699	1.029
FR1 n48	40	BPSK	50	28	Top Side	5mm	Ant 8	DSI 7	Close	638000	3570	16.46	18.20	1.493			0.06	0.827	1.235
FR1 n48	40	BPSK	50	28	Top Side	5mm	Ant 8	DSI 7	Close	645332	3679.98	16.49	18.20	1.483			-0.14	0.764	1.133
FR1 n48	40	BPSK	100	0	Top Side	5mm	Ant 8	DSI 7	Close	641666	3624.99	16.42	18.20	1.507			-0.07	0.742	1.118
FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 4	DSI 7	Close	633332	3499.98	19.15	19.90	1.189			0.16	0.034	0.040
FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 4	DSI 7	Close	633332	3499.98	19.12	19.90	1.197			0.18	0.024	0.029
FR1 n77	100M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 7	Close	633332	3499.98	19.15	19.90	1.189			-0.07	0.841	1.000
FR1 n77	100M	BPSK	135	69	Back Right	5mm	Ant 4	DSI 7	Close	633332	3499.98	19.12	19.90	1.197			0.09	0.707	0.846
FR1 n77	100	BPSK	270	0	Back Right	5mm	Ant 4	DSI 7	Close	633332	3499.98	19.00	19.90	1.23			-0.19	0.591	0.727
FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 4	DSI 7	Close	633332	3499.98	19.15	19.90	1.189			-0.05	0.462	0.549
FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 4	DSI 7	Close	633332	3499.98	19.12	19.90	1.197			-0.03	0.408	0.488
FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 4	DSI 7	Close	633332	3499.98	19.15	19.90	1.189			0.13	0.113	0.134
FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 4	DSI 7	Close	633332	3499.98	19.12	19.90	1.197			-0.11	0.104	0.124
FR1 n77 HPUE	100	BPSK	1	1	Back Right	5mm	Ant 4	DSI 7	Close	633332	3499.98	22.14	22.90	1.191	50.0	1.0	-0.19	0.791	0.942
FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 6	DSI 7	Close	633332	3499.98	21.25	22.40	1.303			-0.12	0.087	0.113
FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 6	DSI 7	Close	633332	3499.98	21.21	22.40	1.315			0.10	0.100	0.132
FR1 n77	100M	BPSK	1	1	Back Top	5mm	Ant 6	DSI 7	Close	633332	3499.98	21.25	22.40	1.303			0.00	0.823	1.072
FR1 n77	100M	BPSK	135	69	Back Top	5mm	Ant 6	DSI 7	Close	633332	3499.98	21.21	22.40	1.315			0.02	0.829	1.090
FR1 n77	100	BPSK	270	0	Back Top	5mm	Ant 6	DSI 7	Close	633332	3499.98	21.15	22.40	1.334			-0.03	0.919	1.226
FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 6	DSI 7	Close	633332	3499.98	21.25	22.40	1.303			0.11	0.057	0.074
FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 6	DSI 7	Close	633332	3499.98	21.21	22.40	1.315			0.11	0.057	0.075
FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 6	DSI 7	Close	633332	3499.98	21.25	22.40	1.303			-0.05	0.774	1.009
FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 6	DSI 7	Close	633332	3499.98	21.21	22.40	1.315			-0.00	0.768	1.010
FR1 n77	100	BPSK	270	0	Top Side	5mm	Ant 6	DSI 7	Close	633332	3499.98	21.15	22.40	1.334			0.04	0.841	1.122
FR1 n77 HPUE	100	BPSK	270	0	Back Top	5mm	Ant 6	DSI 7	Close	633332	3499.98	24.17	25.40	1.327	50.0	1.0	0.02	0.872	1.157
FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 8	DSI 7	Close	633332	3499.98	17.19	18.40	1.321			-0.16	0.162	0.214
FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 8	DSI 7	Close	633332	3499.98	17.17	18.40	1.327			0.05	0.183	0.243
FR1 n77	100M	BPSK	1	1	Back Top	5mm	Ant 8	DSI 7	Close	633332	3499.98	17.19	18.40	1.321			0.06	0.850	1.123
FR1 n77	100M	BPSK	135	69	Back Top	5mm	Ant 8	DSI 7	Close	633332	3499.98	17.17	18.40	1.327			0.14	0.822	1.091
FR1 n77	100	BPSK	270	0	Back Top	5mm	Ant 8	DSI 7	Close	633332	3499.98	17.16	18.40	1.33			0.16	0.830	1.104
FR1 n77	100M	BPSK	1	1	Left Side	5mm	Ant 8	DSI 7	Close	633332	3499.98	17.19	18.40	1.321			-0.06	0.129	0.170
FR1 n77	100M	BPSK	135	69	Left Side	5mm	Ant 8	DSI 7	Close	633332	3499.98	17.17	18.40	1.327			-0.14	0.135	0.179
FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 8	DSI 7	Close	633332	3499.98	17.19	18.40	1.321			0.01	0.933	1.232
FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 8	DSI 7	Close	633332	3499.98	17.17	18.40	1.327			-0.13	0.900	1.194
FR1 n77	100	BPSK	270	0	Top Side	5mm	Ant 8	DSI 7	Close	633332	3499.98	17.16	18.40	1.33			-0.11	0.878	1.168
FR1 n77 HPUE	100	BPSK	1	1	Top Side	5mm	Ant 8	DSI 7	Close	633332	3499.98	20.18	21.40	1.324	50.0	1.0	0.10	0.901	1.193
FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 4	DSI 7	Close	656000	3840	19.48	19.90	1.102			-0.08	0.041	0.045
FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 4	DSI 7	Close	656000	3840	19.42	19.90	1.117			0.09	0.037	0.041
FR1 n77	100M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 7	Close	656000	3840	19.48	19.90	1.102			-0.02	0.980	1.080
FR1 n77	100M	BPSK	135	69	Back Right	5mm	Ant 4	DSI 7	Close	656000	3840	19.42	19.90	1.117			0.18	0.867	0.968
FR1 n77	100	BPSK	270	0	Back Right	5mm	Ant 4	DSI 7	Close	656000	3840	19.35	19.90	1.135			0.16	0.852	0.967
FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 4	DSI 7	Close	656000	3840	19.48	19.90	1.102			0.03	0.563	0.620
FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 4	DSI 7	Close	656000	3840	19.42	19.90	1.117			0.16	0.490	0.547
FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 4	DSI 7	Close	656000	3840	19.48	19.90	1.102			-0.05	0.118	0.130
FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 4	DSI 7	Close	656000	3840	19.42	19.90	1.117			-0.01	0.105	0.117
FR1 n77 HPUE	100	BPSK	1	1	Back Right	5mm	Ant 4	DSI 7	Close	656000	3840	22.34	22.90	1.138	50.0	1.0	0.16	0.901	1.025
FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 6	DSI 7	Close	656000	3840	21.30	22.40	1.288			-0.08	0.301	0.388
FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 6	DSI 7	Close	656000	3840	21.28	22.40	1.294			-0.08	0.264	0.342
FR1 n77	100M	BPSK	1	1	Back Top	5mm	Ant 6	DSI 7	Close	656000	3840	21.30	22.40	1.288			-0.05	0.541	0.697
FR1 n77	100M	BPSK	135	69	Back Top	5mm	Ant 6	DSI 7	Close	656000	3840	21.28	22.40	1.294			-0.05	0.533	0.690
FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 6	DSI 7	Close	656000	3840	21.30	22.40	1.288			0.03	0.165	0.213



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46	FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 6	DSI 7	Close	656000	3840	21.28	22.40	1.294			-0.01	0.144	0.186
	FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 6	DSI 7	Close	656000	3840	21.30	22.40	1.288			-0.12	0.957	1.233
	FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 6	DSI 7	Close	656000	3840	21.28	22.40	1.294			-0.02	0.845	1.093
	FR1 n77	100	BPSK	270	0	Top Side	5mm	Ant 6	DSI 7	Close	656000	3840	21.23	22.40	1.309			-0.14	0.864	1.131
	FR1 n77 HPUE	100	BPSK	1	1	Top Side	5mm	Ant 6	DSI 7	Close	656000	3840	24.32	25.40	1.282	50.0	1.0	0.09	0.936	1.200
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 8	DSI 7	Close	656000	3840	17.30	18.40	1.288			-0.05	0.074	0.095
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 8	DSI 7	Close	656000	3840	17.09	18.40	1.352			-0.03	0.071	0.096
	FR1 n77	100M	BPSK	1	1	Back Top	5mm	Ant 8	DSI 7	Close	656000	3840	17.30	18.40	1.288			-0.01	0.682	0.878
	FR1 n77	100M	BPSK	135	69	Back Top	5mm	Ant 8	DSI 7	Close	656000	3840	17.09	18.40	1.352			-0.15	0.642	0.868
	FR1 n77	100	BPSK	270	0	Back Top	5mm	Ant 8	DSI 7	Close	656000	3840	17.04	18.40	1.368			0.02	0.605	0.828
	FR1 n77	100M	BPSK	1	1	Left Side	5mm	Ant 8	DSI 7	Close	656000	3840	17.30	18.40	1.288			0.13	0.113	0.146
	FR1 n77	100M	BPSK	135	69	Left Side	5mm	Ant 8	DSI 7	Close	656000	3840	17.09	18.40	1.352			0.16	0.106	0.143
	FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 8	DSI 7	Close	656000	3840	17.30	18.40	1.288			0.08	0.622	0.801
	FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 8	DSI 7	Close	656000	3840	17.09	18.40	1.352			-0.13	0.572	0.773
	FR1 n77	100	BPSK	270	0	Top Side	5mm	Ant 8	DSI 7	Close	656000	3840	17.04	18.40	1.368			0.16	0.543	0.743
	FR1 n77 HPUE	100	BPSK	1	1	Back Top	5mm	Ant 8	DSI 7	Close	656000	3840	20.28	21.40	1.294	50.0	1.0	0.14	0.661	0.855

Ant1

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Configuration	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 7	133297	680.5	close	19.63	20.80	1.309	0.02	0.044	0.058
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 7	133297	680.5	close	19.61	20.80	1.315	-0.13	0.049	0.064
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	133297	680.5	close	19.63	20.80	1.309	0.17	0.131	0.171
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 7	133297	680.5	close	19.61	20.80	1.315	0.06	0.134	0.176
	LTE Band 71	20M	QPSK	1	0	-	Back 1	5mm	Ant 1	DSI 7	133297	680.5	close	19.63	20.80	1.309	0	0.073	0.096
	LTE Band 71	20M	QPSK	50	0	-	Back 1	5mm	Ant 1	DSI 7	133297	680.5	close	19.61	20.80	1.315	-0.04	0.081	0.107
47	LTE Band 71	20M	QPSK	1	0	-	Back Right	5mm	Ant 1	DSI 7	133297	680.5	close	19.63	20.80	1.309	-0.05	0.178	0.233
	LTE Band 71	20M	QPSK	50	0	-	Back Right	5mm	Ant 1	DSI 7	133297	680.5	close	19.61	20.80	1.315	-0.15	0.172	0.226
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 7	133297	680.5	close	19.63	20.80	1.309	-0.06	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 7	133297	680.5	close	19.61	20.80	1.315	0	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 7	133297	680.5	close	19.63	20.80	1.309	-0.03	0.128	0.168
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 7	133297	680.5	close	19.61	20.80	1.315	0.07	0.147	0.193
	LTE Band 71	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	133297	680.5	close	19.63	20.80	1.309	-0.12	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 7	133297	680.5	close	19.61	20.80	1.315	-0.03	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 7	133297	680.5	close	19.63	20.80	1.309	0.02	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 7	133297	680.5	close	19.61	20.80	1.315	0.12	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 7	23095	707.5	close	20.15	21.70	1.429	-0.02	0.072	0.103
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI 7	23095	707.5	close	20.13	21.70	1.435	0.1	0.074	0.106
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	23095	707.5	close	20.15	21.70	1.429	0.04	0.179	0.256
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI 7	23095	707.5	close	20.13	21.70	1.435	0.13	0.184	0.264
	LTE Band 12	10M	QPSK	1	0	-	Back 1	5mm	Ant 1	DSI 7	23095	707.5	close	20.15	21.70	1.429	-0.18	0.125	0.179
	LTE Band 12	10M	QPSK	25	0	-	Back 1	5mm	Ant 1	DSI 7	23095	707.5	close	20.13	21.70	1.435	-0.11	0.124	0.178
48	LTE Band 12	10M	QPSK	1	0	-	Back Right	5mm	Ant 1	DSI 7	23095	707.5	close	20.15	21.70	1.429	0.16	0.240	0.343
	LTE Band 12	10M	QPSK	25	0	-	Back Right	5mm	Ant 1	DSI 7	23095	707.5	close	20.13	21.70	1.435	-0.16	0.236	0.339
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 7	23095	707.5	close	20.15	21.70	1.429	-0.05	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	DSI 7	23095	707.5	close	20.13	21.70	1.435	-0.08	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 7	23095	707.5	close	20.15	21.70	1.429	-0.08	0.133	0.190
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	DSI 7	23095	707.5	close	20.13	21.70	1.435	-0.13	0.136	0.195
	LTE Band 12	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	23095	707.5	close	20.15	21.70	1.429	0.01	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	DSI 7	23095	707.5	close	20.13	21.70	1.435	-0.11	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 7	23095	707.5	close	20.15	21.70	1.429	0.03	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	DSI 7	23095	707.5	close	20.13	21.70	1.435	-0.05	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 7	23230	782	close	20.18	21.40	1.324	-0.06	0.083	0.110
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI 7	23230	782	close	20.13	21.40	1.340	-0.14	0.082	0.110
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	23230	782	close	20.18	21.40	1.324	-0.19	0.183	0.242
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI 7	23230	782	close	20.13	21.40	1.340	0.01	0.191	0.256
	LTE Band 13	10M	QPSK	1	0	-	Back 1	5mm	Ant 1	DSI 7	23230	782	close	20.18	21.40	1.324	0.06	0.121	0.160
	LTE Band 13	10M	QPSK	25	0	-	Back 1	5mm	Ant 1	DSI 7	23230	782	close	20.13	21.40	1.340	0.02	0.134	0.180



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49	LTE Band 13	10M	QPSK	1	0	-	Back Right	5mm	Ant 1	DSI 7	23230	782	close	20.18	21.40	1.324	0.15	0.258	0.342
	LTE Band 13	10M	QPSK	25	0	-	Back Right	5mm	Ant 1	DSI 7	23230	782	close	20.13	21.40	1.340	0.12	0.252	0.338
	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 7	23230	782	close	20.18	21.40	1.324	0.12	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	DSI 7	23230	782	close	20.13	21.40	1.340	-0.11	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 7	23230	782	close	20.18	21.40	1.324	0.17	0.204	0.270
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	DSI 7	23230	782	close	20.13	21.40	1.340	-0.16	0.203	0.272
	LTE Band 13	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	23230	782	close	20.18	21.40	1.324	-0.17	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	DSI 7	23230	782	close	20.13	21.40	1.340	0.11	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 7	23230	782	close	20.18	21.40	1.324	-0.05	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	DSI 7	23230	782	close	20.13	21.40	1.340	-0.01	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 7	23330	793	close	20.63	21.60	1.250	-0.12	0.082	0.103
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI 7	23330	793	close	20.61	21.60	1.256	0.07	0.083	0.104
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	23330	793	close	20.63	21.60	1.250	-0.02	0.191	0.239
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI 7	23330	793	close	20.61	21.60	1.256	-0.05	0.204	0.256
	LTE Band 14	10M	QPSK	1	0	-	Back 1	5mm	Ant 1	DSI 7	23330	793	close	20.63	21.60	1.250	-0.13	0.111	0.139
	LTE Band 14	10M	QPSK	25	0	-	Back 1	5mm	Ant 1	DSI 7	23330	793	close	20.61	21.60	1.256	0.08	0.129	0.162
50	LTE Band 14	10M	QPSK	1	0	-	Back Right	5mm	Ant 1	DSI 7	23330	793	close	20.63	21.60	1.250	0.12	0.265	0.331
	LTE Band 14	10M	QPSK	25	0	-	Back Right	5mm	Ant 1	DSI 7	23330	793	close	20.61	21.60	1.256	0.16	0.249	0.313
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 7	23330	793	close	20.63	21.60	1.250	-0.01	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	DSI 7	23330	793	close	20.61	21.60	1.256	0.09	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 7	23330	793	close	20.63	21.60	1.250	0.1	0.263	0.329
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	DSI 7	23330	793	close	20.61	21.60	1.256	-0.04	0.247	0.310
	LTE Band 14	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	23330	793	close	20.63	21.60	1.250	0.15	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	DSI 7	23330	793	close	20.61	21.60	1.256	0.09	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 7	23330	793	close	20.63	21.60	1.250	-0.16	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	DSI 7	23330	793	close	20.61	21.60	1.256	0.05	0.001	0.001
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 7	136100	680.5	close	19.83	21.00	1.309	-0.16	0.064	0.084
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 7	136100	680.5	close	19.82	21.00	1.312	0.1	0.067	0.088
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 7	136100	680.5	close	19.83	21.00	1.309	-0.04	0.173	0.226
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 7	136100	680.5	close	19.82	21.00	1.312	-0.01	0.191	0.251
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 7	136100	680.5	close	19.83	21.00	1.309	0	0.106	0.139
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 7	136100	680.5	close	19.82	21.00	1.312	-0.11	0.125	0.164
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 7	136100	680.5	close	19.83	21.00	1.309	-0.06	0.203	0.266
51	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 7	136100	680.5	close	19.82	21.00	1.312	-0.15	0.256	0.336
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 7	136100	680.5	close	19.83	21.00	1.309	-0.03	0.001	0.001
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 7	136100	680.5	close	19.82	21.00	1.312	0.09	0.001	0.001
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 7	136100	680.5	close	19.83	21.00	1.309	-0.08	0.237	0.310
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 7	136100	680.5	close	19.82	21.00	1.312	-0.05	0.244	0.320
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 7	136100	680.5	close	19.83	21.00	1.309	-0.03	0.001	0.001
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 7	136100	680.5	close	19.82	21.00	1.312	0.17	0.001	0.001
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	DSI 7	136100	680.5	close	19.83	21.00	1.309	-0.14	0.001	0.001
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	DSI 7	136100	680.5	close	19.82	21.00	1.312	0.06	0.001	0.001
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 7	141500	707.5	close	19.35	20.60	1.334	0.03	0.063	0.084
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 7	141500	707.5	close	19.34	20.60	1.337	-0.13	0.068	0.091
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 7	141500	707.5	close	19.35	20.60	1.334	0.16	0.182	0.243
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 7	141500	707.5	close	19.34	20.60	1.337	-0.15	0.192	0.257
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 7	141500	707.5	close	19.35	20.60	1.334	-0.02	0.112	0.149
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 7	141500	707.5	close	19.34	20.60	1.337	-0.09	0.122	0.163
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 7	141500	707.5	close	19.35	20.60	1.334	0.14	0.221	0.295
52	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 7	141500	707.5	close	19.34	20.60	1.337	-0.1	0.250	0.334
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 7	141500	707.5	close	19.35	20.60	1.334	0.18	0.001	0.001
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 7	141500	707.5	close	19.34	20.60	1.337	-0.11	0.001	0.001
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 7	141500	707.5	close	19.35	20.60	1.334	-0.05	0.228	0.304
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 7	141500	707.5	close	19.34	20.60	1.337	-0.04	0.225	0.301
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 7	141500	707.5	close	19.35	20.60	1.334	-0.08	0.001	0.001
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 7	141500	707.5	close	19.34	20.60	1.337	0	0.001	0.001



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	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	DSI 7	141500	707.5	close	19.35	20.60	1.334	-0.14	0.001	0.001
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	DSI 7	141500	707.5	close	19.34	20.60	1.337	0.01	0.001	0.001
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 7	156400	782	close	20.45	21.80	1.365	-0.09	0.080	0.109
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 7	156400	782	close	20.43	21.80	1.371	0.07	0.078	0.107
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 7	156400	782	close	20.45	21.80	1.365	-0.09	0.280	0.382
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 7	156400	782	close	20.43	21.80	1.371	-0.16	0.278	0.381
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 7	156400	782	close	20.45	21.80	1.365	-0.18	0.102	0.139
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 7	156400	782	close	20.43	21.80	1.371	-0.07	0.122	0.167
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 7	156400	782	close	20.45	21.80	1.365	0.11	0.253	0.345
53	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 7	156400	782	close	20.43	21.80	1.371	-0.04	0.281	0.385
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 7	156400	782	close	20.45	21.80	1.365	0.08	0.001	0.001
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 7	156400	782	close	20.43	21.80	1.371	0	0.001	0.001
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 7	156400	782	close	20.45	21.80	1.365	-0.13	0.281	0.384
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 7	156400	782	close	20.43	21.80	1.371	-0.1	0.269	0.369
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 7	156400	782	close	20.45	21.80	1.365	-0.07	0.001	0.001
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 7	156400	782	close	20.43	21.80	1.371	0.11	0.001	0.001
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	DSI 7	156400	782	close	20.45	21.80	1.365	-0.17	0.001	0.001
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	DSI 7	156400	782	close	20.43	21.80	1.371	0.01	0.001	0.001
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 7	158600	793	close	20.35	21.40	1.274	-0.1	0.086	0.110
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 7	158600	793	close	20.33	21.40	1.279	-0.01	0.086	0.110
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 7	158600	793	close	20.35	21.40	1.274	-0.09	0.202	0.257
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 7	158600	793	close	20.33	21.40	1.279	-0.06	0.196	0.251
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 7	158600	793	close	20.35	21.40	1.274	-0.17	0.128	0.163
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 7	158600	793	close	20.33	21.40	1.279	-0.01	0.106	0.136
54	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 7	158600	793	close	20.35	21.40	1.274	-0.04	0.277	0.353
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 7	158600	793	close	20.33	21.40	1.279	-0.11	0.264	0.338
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 7	158600	793	close	20.35	21.40	1.274	-0.03	0.001	0.001
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 7	158600	793	close	20.33	21.40	1.279	-0.14	0.001	0.001
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 7	158600	793	close	20.35	21.40	1.274	0.17	0.275	0.350
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 7	158600	793	close	20.33	21.40	1.279	0.11	0.241	0.308
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 7	158600	793	close	20.35	21.40	1.274	0.07	0.001	0.001
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 7	158600	793	close	20.33	21.40	1.279	-0.04	0.001	0.001
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	DSI 7	158600	793	close	20.35	21.40	1.274	-0.18	0.001	0.001
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	DSI 7	158600	793	close	20.33	21.40	1.279	-0.13	0.001	0.001
	GSM850	-	-	-	-	GPRS 3 Tx slots	Front	5mm	Ant 1	DSI 7	189	836.4	close	24.21	25.60	1.377	0.14	0.045	0.062
	GSM850	-	-	-	-	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 7	189	836.4	close	24.21	25.60	1.377	0.03	0.084	0.116
	GSM850	-	-	-	-	GPRS 3 Tx slots	Back 1	5mm	Ant 1	DSI 7	189	836.4	close	24.21	25.60	1.377	0.1	0.077	0.106
55	GSM850	-	-	-	-	GPRS 3 Tx slots	Back Right	5mm	Ant 1	DSI 7	189	836.4	close	24.21	25.60	1.377	-0.1	0.159	0.219
	GSM850	-	-	-	-	GPRS 3 Tx slots	Left Side	5mm	Ant 1	DSI 7	189	836.4	close	24.21	25.60	1.377	-0.15	0.001	0.001
	GSM850	-	-	-	-	GPRS 3 Tx slots	Right Side	5mm	Ant 1	DSI 7	189	836.4	close	24.21	25.60	1.377	-0.09	0.153	0.211
	GSM850	-	-	-	-	GPRS 3 Tx slots	Top Side	5mm	Ant 1	DSI 7	189	836.4	close	24.21	25.60	1.377	0.05	0.001	0.001
	GSM850	-	-	-	-	GPRS 3 Tx slots	Bottom Side	5mm	Ant 1	DSI 7	189	836.4	close	24.21	25.60	1.377	0.13	0.001	0.001
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 7	4182	836.4	close	20.21	21.50	1.346	-0.06	0.068	0.092
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 7	4182	836.4	close	20.21	21.50	1.346	0.02	0.157	0.211
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back 1	5mm	Ant 1	DSI 7	4182	836.4	close	20.21	21.50	1.346	-0.16	0.094	0.127
56	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back Right	5mm	Ant 1	DSI 7	4182	836.4	close	20.21	21.50	1.346	-0.13	0.243	0.327
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 7	4182	836.4	close	20.21	21.50	1.346	-0.07	0.001	0.001
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI 7	4182	836.4	close	20.21	21.50	1.346	0.1	0.227	0.306
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 7	4182	836.4	close	20.21	21.50	1.346	-0.11	0.001	0.001
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	DSI 7	4182	836.4	close	20.21	21.50	1.346	-0.02	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 7	26865	831.5	close	20.03	21.40	1.371	-0.03	0.072	0.099
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	DSI 7	26865	831.5	close	19.95	21.40	1.396	0.17	0.078	0.109
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	26865	831.5	close	20.03	21.40	1.371	-0.15	0.159	0.218
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	DSI 7	26865	831.5	close	19.95	21.40	1.396	0.16	0.168	0.235
	LTE Band 26	15M	QPSK	1	0	-	Back 1	5mm	Ant 1	DSI 7	26865	831.5	close	20.03	21.40	1.371	0.05	0.099	0.136
	LTE Band 26	15M	QPSK	36	0	-	Back 1	5mm	Ant 1	DSI 7	26865	831.5	close	19.95	21.40	1.396	-0.06	0.106	0.148



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57	LTE Band 26	15M	QPSK	1	0	-	Back Right	5mm	Ant 1	DSI 7	26865	831.5	close	20.03	21.40	1.371	-0.13	0.238	0.326
	LTE Band 26	15M	QPSK	36	0	-	Back Right	5mm	Ant 1	DSI 7	26865	831.5	close	19.95	21.40	1.396	-0.13	0.211	0.295
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 7	26865	831.5	close	20.03	21.40	1.371	0.01	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 1	DSI 7	26865	831.5	close	19.95	21.40	1.396	-0.06	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 7	26865	831.5	close	20.03	21.40	1.371	0.14	0.229	0.314
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 1	DSI 7	26865	831.5	close	19.95	21.40	1.396	-0.09	0.220	0.307
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	26865	831.5	close	20.03	21.40	1.371	-0.09	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	-	Top Side	5mm	Ant 1	DSI 7	26865	831.5	close	19.95	21.40	1.396	-0.12	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 7	26865	831.5	close	20.03	21.40	1.371	-0.06	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 1	DSI 7	26865	831.5	close	19.95	21.40	1.396	-0.19	0.001	0.001
	LTE Band 5	10M	QPSK	1	49	-	Back Right	5mm	Ant 1	DSI 7	20476+20575	831.5+841.5	close	19.85	21.40	1.429	0.02	0.195	0.279
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 7	166300	831.5	close	19.47	20.80	1.358	-0.11	0.084	0.114
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 7	166300	831.5	close	19.44	20.80	1.368	0.19	0.082	0.112
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 7	166300	831.5	close	19.47	20.80	1.358	-0.14	0.193	0.262
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 7	166300	831.5	close	19.44	20.80	1.368	-0.18	0.179	0.245
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 7	166300	831.5	close	19.47	20.80	1.358	-0.06	0.117	0.159
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 7	166300	831.5	close	19.44	20.80	1.368	0.02	0.118	0.161
58	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 7	166300	831.5	close	19.47	20.80	1.358	-0.17	0.215	0.292
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 7	166300	831.5	close	19.44	20.80	1.368	0.16	0.207	0.283
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 7	166300	831.5	close	19.47	20.80	1.358	-0.16	0.000	0.000
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 7	166300	831.5	close	19.44	20.80	1.368	-0.03	0.000	0.000
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 7	166300	831.5	close	19.47	20.80	1.358	-0.06	0.179	0.243
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 7	166300	831.5	close	19.44	20.80	1.368	0.08	0.194	0.265
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 7	166300	831.5	close	19.47	20.80	1.358	-0.07	0.000	0.000
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 7	166300	831.5	close	19.44	20.80	1.368	0.11	0.000	0.000
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	DSI 7	166300	831.5	close	19.47	20.80	1.358	-0.13	0.000	0.000
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	DSI 7	166300	831.5	close	19.44	20.80	1.368	0.04	0.000	0.000

MIMO SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n48 HPUE	40M	BPSK	1	1	Front	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.60	18.2	1.445	100	1.000	0	0.107	0.155
	FR1 n48 HPUE	40M	BPSK	50	28	Front	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.50	18.2	1.479	100	1.000	-0.12	0.103	0.152
	FR1 n48 HPUE	40M	BPSK	1	1	Back Top	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.60	18.2	1.445	100	1.000	0.15	0.741	1.071
	FR1 n48 HPUE	40M	BPSK	1	1	Back Top	5mm	Ant 8+4	DSI 7	Close	638000	3570	16.56	18.2	1.459	100	1.000	-0.05	0.685	0.999
	FR1 n48 HPUE	40M	BPSK	1	1	Back Top	5mm	Ant 8+4	DSI 7	Close	645332	3679.98	16.50	18.2	1.479	100	1.000	-0.07	0.681	1.007
	FR1 n48 HPUE	40M	BPSK	50	28	Back Top	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.50	18.2	1.479	100	1.000	0.1	0.666	0.985
	FR1 n48 HPUE	40M	BPSK	50	28	Back Top	5mm	Ant 8+4	DSI 7	Close	638000	3570	16.45	18.2	1.496	100	1.000	-0.11	0.625	0.935
	FR1 n48 HPUE	40M	BPSK	50	28	Back Top	5mm	Ant 8+4	DSI 7	Close	645332	3679.98	16.53	18.2	1.469	100	1.000	-0.02	0.621	0.912
	FR1 n48 HPUE	40M	BPSK	100	0	Back Top	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.45	18.2	1.496	100	1.000	-0.1	0.601	0.899
	FR1 n48 HPUE	40M	BPSK	1	1	Left Side	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.60	18.2	1.445	100	1.000	0.14	0.123	0.178
	FR1 n48 HPUE	40M	BPSK	50	28	Left Side	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.50	18.2	1.479	100	1.000	0.04	0.128	0.189
	FR1 n48 HPUE	40M	BPSK	1	1	Right Side	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.60	18.2	1.445	100	1.000	-0.05	0.189	0.273
	FR1 n48 HPUE	40M	BPSK	50	28	Right Side	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.50	18.2	1.479	100	1.000	-0.04	0.160	0.237
	FR1 n48 HPUE	40M	BPSK	1	1	Top Side	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.60	18.2	1.445	100	1.000	0.14	0.807	1.166
	FR1 n48 HPUE	40M	BPSK	1	1	Top Side	5mm	Ant 8+4	DSI 7	Close	638000	3570	16.56	18.2	1.459	100	1.000	0.03	0.691	1.008
	FR1 n48 HPUE	40M	BPSK	1	1	Top Side	5mm	Ant 8+4	DSI 7	Close	645332	3679.98	16.50	18.2	1.479	100	1.000	0.16	0.762	1.127
	FR1 n48 HPUE	40M	BPSK	50	28	Top Side	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.50	18.2	1.479	100	1.000	0.01	0.746	1.103
	FR1 n48 HPUE	40M	BPSK	50	28	Top Side	5mm	Ant 8+4	DSI 7	Close	638000	3570	16.45	18.2	1.496	100	1.000	-0.06	0.756	1.131
	FR1 n48 HPUE	40M	BPSK	50	28	Top Side	5mm	Ant 8+4	DSI 7	Close	645332	3679.98	16.53	18.2	1.469	100	1.000	0.14	0.714	1.049
	FR1 n48 HPUE	40M	BPSK	100	0	Top Side	5mm	Ant 8+4	DSI 7	Close	641666	3624.99	16.45	18.2	1.496	100	1.000	-0.09	0.762	1.14
	FR1 n48 HPUE	40M	BPSK	1	1	Front	5mm	Ant 8+6	DSI 7	Close	641666	3624.99	15.59	17.2	1.449	100	1.000	-0.12	0.084	0.122
	FR1 n48 HPUE	40M	BPSK	50	28	Front	5mm	Ant 8+6	DSI 7	Close	641666	3624.99	15.57	17.2	1.455	100	1.000	-0.06	0.096	0.14
	FR1 n48 HPUE	40M	BPSK	1	1	Back Top	5mm	Ant 8+6	DSI 7	Close	641666	3624.99	15.59	17.2	1.449	100	1.000	-0.19	0.585	0.848
	FR1 n48 HPUE	40M	BPSK	1	1	Back Top	5mm	Ant 8+6	DSI 7	Close	638000	3570	15.49	17.2	1.483	100	1.000	0.09	0.673	0.998



FCC SAR TEST REPORT

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FR1 n48 HPUE	40M	BPSK	1	1	Back Top	5mm	Ant 8+6	DSI 7	Close	645332	3679.98	15.55	17.2	1.462	100	1.000	0.13	0.848	1.24
FR1 n48 HPUE	40M	BPSK	50	28	Back Top	5mm	Ant 8+6	DSI 7	Close	641666	3624.99	15.57	17.2	1.455	100	1.000	-0.08	0.712	1.036
FR1 n48 HPUE	40M	BPSK	50	28	Back Top	5mm	Ant 8+6	DSI 7	Close	638000	3570	15.46	17.2	1.493	100	1.000	0.08	0.732	1.093
FR1 n48 HPUE	40M	BPSK	50	28	Back Top	5mm	Ant 8+6	DSI 7	Close	645332	3679.98	15.53	17.2	1.469	100	1.000	-0.04	0.585	0.859
FR1 n48 HPUE	40M	BPSK	100	0	Back Top	5mm	Ant 8+6	DSI 7	Close	641666	3624.99	15.48	17.2	1.486	100	1.000	0.12	0.796	1.183
FR1 n48 HPUE	40M	BPSK	1	1	Left Side	5mm	Ant 8+6	DSI 7	Close	641666	3624.99	15.59	17.2	1.449	100	1.000	0.09	0.095	0.138
FR1 n48 HPUE	40M	BPSK	50	28	Left Side	5mm	Ant 8+6	DSI 7	Close	641666	3624.99	15.57	17.2	1.455	100	1.000	-0.02	0.097	0.141
FR1 n48 HPUE	40M	BPSK	1	1	Right Side	5mm	Ant 8+6	DSI 7	Close	641666	3624.99	15.59	17.2	1.449	100	1.000	-0.16	0.036	0.052
FR1 n48 HPUE	40M	BPSK	50	28	Right Side	5mm	Ant 8+6	DSI 7	Close	641666	3624.99	15.57	17.2	1.455	100	1.000	-0.03	0.041	0.06
FR1 n48 HPUE	40M	BPSK	1	1	Top Side	5mm	Ant 8+6	DSI 7	Close	641666	3624.99	15.59	17.2	1.449	100	1.000	-0.06	0.521	0.755
FR1 n48 HPUE	40M	BPSK	50	28	Top Side	5mm	Ant 8+6	DSI 7	Close	641666	3624.99	15.57	17.2	1.455	100	1.000	0.08	0.513	0.746
FR1 n77 HPUE	100M	BPSK	1	1	Front	5mm	Ant 8+4	DSI 7	Close	633332	3499.98	20.20	21.4	1.318	50	1.000	0.11	0.124	0.163
FR1 n77 HPUE	100M	BPSK	135	69	Front	5mm	Ant 8+4	DSI 7	Close	633332	3499.98	20.18	21.4	1.324	50	1.000	-0.13	0.120	0.159
FR1 n77 HPUE	100M	BPSK	1	1	Back Top	5mm	Ant 8+4	DSI 7	Close	633332	3499.98	20.20	21.4	1.318	50	1.000	0.04	0.575	0.758
FR1 n77 HPUE	100M	BPSK	135	69	Back Top	5mm	Ant 8+4	DSI 7	Close	633332	3499.98	20.18	21.4	1.324	50	1.000	0.17	0.534	0.707
FR1 n77 HPUE	100M	BPSK	1	1	Left Side	5mm	Ant 8+4	DSI 7	Close	633332	3499.98	20.20	21.4	1.318	50	1.000	-0.1	0.095	0.125
FR1 n77 HPUE	100M	BPSK	135	69	Left Side	5mm	Ant 8+4	DSI 7	Close	633332	3499.98	20.18	21.4	1.324	50	1.000	0.17	0.090	0.119
FR1 n77 HPUE	100M	BPSK	1	1	Right Side	5mm	Ant 8+4	DSI 7	Close	633332	3499.98	20.20	21.4	1.318	50	1.000	-0.15	0.134	0.177
FR1 n77 HPUE	100M	BPSK	135	69	Right Side	5mm	Ant 8+4	DSI 7	Close	633332	3499.98	20.18	21.4	1.324	50	1.000	0.18	0.135	0.179
FR1 n77 HPUE	100M	BPSK	1	1	Top Side	5mm	Ant 8+4	DSI 7	Close	633332	3499.98	20.20	21.4	1.318	50	1.000	0.05	0.502	0.662
FR1 n77 HPUE	100M	BPSK	135	69	Top Side	5mm	Ant 8+4	DSI 7	Close	633332	3499.98	20.18	21.4	1.324	50	1.000	0.04	0.488	0.646
FR1 n77_PC1.5	100M	BPSK	1	1	Back Top	5mm	Ant 8+4	DSI 7	Close	633332	3499.98	23.19	24.4	1.321	50	1.000	0.15	0.533	0.704
FR1 n77 HPUE	100M	BPSK	1	1	Front	5mm	Ant 8+6	DSI 7	Close	633332	3499.98	20.20	21.4	1.318	50	1.000	-0.1	0.117	0.154
FR1 n77 HPUE	100M	BPSK	135	69	Front	5mm	Ant 8+6	DSI 7	Close	633332	3499.98	20.18	21.4	1.324	50	1.000	0.14	0.099	0.131
FR1 n77 HPUE	100M	BPSK	1	1	Back Top	5mm	Ant 8+6	DSI 7	Close	633332	3499.98	20.20	21.4	1.318	50	1.000	-0.16	0.458	0.604
FR1 n77 HPUE	100M	BPSK	135	69	Back Top	5mm	Ant 8+6	DSI 7	Close	633332	3499.98	20.18	21.4	1.324	50	1.000	-0.02	0.477	0.632
FR1 n77 HPUE	100M	BPSK	1	1	Left Side	5mm	Ant 8+6	DSI 7	Close	633332	3499.98	20.20	21.4	1.318	50	1.000	0.1	0.080	0.105
FR1 n77 HPUE	100M	BPSK	135	69	Left Side	5mm	Ant 8+6	DSI 7	Close	633332	3499.98	20.18	21.4	1.324	50	1.000	-0.1	0.073	0.097
FR1 n77 HPUE	100M	BPSK	1	1	Right Side	5mm	Ant 8+6	DSI 7	Close	633332	3499.98	20.20	21.4	1.318	50	1.000	-0.05	0.049	0.065
FR1 n77 HPUE	100M	BPSK	135	69	Right Side	5mm	Ant 8+6	DSI 7	Close	633332	3499.98	20.18	21.4	1.324	50	1.000	-0.04	0.035	0.046
FR1 n77 HPUE	100M	BPSK	1	1	Top Side	5mm	Ant 8+6	DSI 7	Close	633332	3499.98	20.20	21.4	1.318	50	1.000	0.01	0.531	0.7
FR1 n77 HPUE	100M	BPSK	135	69	Top Side	5mm	Ant 8+6	DSI 7	Close	633332	3499.98	20.18	21.4	1.324	50	1.000	-0.09	0.456	0.604
FR1 n77_PC1.5	100M	BPSK	1	1	Top Side	5mm	Ant 8+6	DSI 7	Close	633332	3499.98	23.19	24.4	1.321	50	1.000	0.03	0.466	0.616
FR1 n77 HPUE	100M	BPSK	1	1	Front	5mm	Ant 8+4	DSI 7	Close	656000	3840	20.31	21.4	1.285	50	1.000	-0.16	0.051	0.066
FR1 n77 HPUE	100M	BPSK	135	69	Front	5mm	Ant 8+4	DSI 7	Close	656000	3840	20.10	21.4	1.349	50	1.000	0.15	0.042	0.057
FR1 n77 HPUE	100M	BPSK	1	1	Back Top	5mm	Ant 8+4	DSI 7	Close	656000	3840	20.31	21.4	1.285	50	1.000	-0.15	0.424	0.545
FR1 n77 HPUE	100M	BPSK	135	69	Back Top	5mm	Ant 8+4	DSI 7	Close	656000	3840	20.10	21.4	1.349	50	1.000	0.06	0.343	0.463
FR1 n77 HPUE	100M	BPSK	1	1	Left Side	5mm	Ant 8+4	DSI 7	Close	656000	3840	20.31	21.4	1.285	50	1.000	0.15	0.064	0.082
FR1 n77 HPUE	100M	BPSK	135	69	Left Side	5mm	Ant 8+4	DSI 7	Close	656000	3840	20.10	21.4	1.349	50	1.000	-0.1	0.053	0.071
FR1 n77 HPUE	100M	BPSK	1	1	Right Side	5mm	Ant 8+4	DSI 7	Close	656000	3840	20.31	21.4	1.285	50	1.000	0.17	0.126	0.162
FR1 n77 HPUE	100M	BPSK	135	69	Right Side	5mm	Ant 8+4	DSI 7	Close	656000	3840	20.10	21.4	1.349	50	1.000	0.13	0.092	0.124
FR1 n77 HPUE	100M	BPSK	1	1	Top Side	5mm	Ant 8+4	DSI 7	Close	656000	3840	20.31	21.4	1.285	50	1.000	-0.02	0.359	0.461
FR1 n77 HPUE	100M	BPSK	135	69	Top Side	5mm	Ant 8+4	DSI 7	Close	656000	3840	20.10	21.4	1.349	50	1.000	0	0.348	0.469
FR1 n77_PC1.5	100M	BPSK	1	1	Back Top	5mm	Ant 8+4	DSI 7	Close	656000	3840	23.29	24.4	1.291	50	1.000	0.1	0.378	0.488
FR1 n77 HPUE	100M	BPSK	1	1	Front	5mm	Ant 8+6	DSI 7	Close	656000	3840	20.31	21.4	1.285	50	1.000	-0.04	0.059	0.076
FR1 n77 HPUE	100M	BPSK	135	69	Front	5mm	Ant 8+6	DSI 7	Close	656000	3840	20.10	21.4	1.349	50	1.000	-0.12	0.058	0.078
FR1 n77 HPUE	100M	BPSK	1	1	Back Top	5mm	Ant 8+6	DSI 7	Close	656000	3840	20.31	21.4	1.285	50	1.000	-0.07	0.477	0.613
FR1 n77 HPUE	100M	BPSK	135	69	Back Top	5mm	Ant 8+6	DSI 7	Close	656000	3840	20.10	21.4	1.349	50	1.000	-0.03	0.349	0.471
FR1 n77 HPUE	100M	BPSK	1	1	Left Side	5mm	Ant 8+6	DSI 7	Close	656000	3840	20.31	21.4	1.285	50	1.000	-0.13	0.076	0.098
FR1 n77 HPUE	100M	BPSK	135	69	Left Side	5mm	Ant 8+6	DSI 7	Close	656000	3840	20.10	21.4	1.349	50	1.000	0.05	0.061	0.082
FR1 n77 HPUE	100M	BPSK	1	1	Right Side	5mm	Ant 8+6	DSI 7	Close	656000	3840	20.31	21.4	1.285	50	1.000	-0.15	0.029	0.037
FR1 n77 HPUE	100M	BPSK	135	69	Right Side	5mm	Ant 8+6	DSI 7	Close	656000	3840	20.10	21.4	1.349	50	1.000	-0.11	0.032	0.043
FR1 n77 HPUE	100M	BPSK	1	1	Top Side	5mm	Ant 8+6	DSI 7	Close	656000	3840	20.31	21.4	1.285	50	1.000	0.07	0.502	0.645
FR1 n77 HPUE	100M	BPSK	135	69	Top Side	5mm	Ant 8+6	DSI 7	Close	656000	3840	20.10	21.4	1.349	50	1.000	0	0.452	0.61
FR1 n77_PC1.5	100M	BPSK	1	1	Top Side	5mm	Ant 8+6	DSI 7	Close	656000	3840	23.29	24.4	1.291	50	1.000	-0.12	0.456	0.589



LTE CA SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	99	Back Top	5mm	Ant 3	DSI 7	Close	18900+18900	1880+1899.8	17.93	19.40	1.403	0.01	0.835	1.172
	LTE Band 2	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 7	Close	18900+18900	1880+1899.8	21.53	23.00	1.403	0.03	0.813	1.141

NRCA SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Maximum Duty Cycle %	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n41	100M	BPSK	144	129	Top Side	5mm	Ant 3	DSI 7	Close	509598+528582	2547.99+2642.91	15.43	16.40	1.250	100.0	1.000	100.0	0.03	0.953	1.191
	FR1 n41	100M	BPSK	144	129	Back Right	5mm	Ant 4	DSI 7	Close	509598+528582	2547.99+2642.91	19.35	21.20	1.531	100.0	1.000	100.0	0.05	0.821	1.257
	FR1 n77	100M	BPSK	162	108	Back Right	5mm	Ant 4	DSI 7	Close	644000+648328	3660+3724.92	18.93	19.90	1.250	100.0	1.000	100.0	0.03	0.841	1.051
	FR1 n77 HPUE	100M	BPSK	162	108	Back Right	5mm	Ant 4	DSI 7	Close	644000+648328	3660+3724.92	21.89	22.90	1.262	50.0	1.000	50.0	0.02	0.801	1.011
	FR1 n77	100M	BPSK	162	108	Top Side	5mm	Ant 6	DSI 7	Close	644000+648328	3660+3724.92	21.13	22.40	1.340	100.0	1.000	100.0	0.03	0.857	1.148
	FR1 n77	100M	BPSK	162	108	Back Top	5mm	Ant 8	DSI 7	Close	644000+648328	3660+3724.92	16.81	18.40	1.442	100.0	1.000	100.0	0.03	0.601	0.867
	FR1 n77 HPUE	100M	BPSK	162	108	Back Top	5mm	Ant 8	DSI 7	Close	644000+648328	3660+3724.92	19.98	21.40	1.387	50.0	1.000	50.0	0.02	0.603	0.836

【WLAN 2.4GHz_5GHz SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 7+11(7)	DSI 7	Close	11	2462	19.79	21.50	1.483	97.05	1.03	-0.09	0.108	0.165
59	WLAN2.4GHz	802.11b 1Mbps	Back Top	5mm	Ant 7+11(7)	DSI 7	Close	11	2462	19.79	21.50	1.483	97.05	1.03	-0.04	0.562	0.858
	WLAN2.4GHz	802.11b 1Mbps	Back Top	5mm	Ant 7+11(7)	DSI 7	Close	6	2437	19.72	21.50	1.507	97.05	1.03	-0.04	0.474	0.736
	WLAN2.4GHz	802.11b 1Mbps	Back Right	5mm	Ant 7+11(7)	DSI 7	Close	11	2462	19.79	21.50	1.483	97.05	1.03	0.06	0.253	0.386
	WLAN2.4GHz	802.11b 1Mbps	Back Left	5mm	Ant 7+11(7)	DSI 7	Close	11	2462	19.79	21.50	1.483	97.05	1.03	-0.13	0.060	0.092
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 7+11(7)	DSI 7	Close	11	2462	19.79	21.50	1.483	97.05	1.03	0.12	0.038	0.058
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 7+11(7)	DSI 7	Close	11	2462	19.79	21.50	1.483	97.05	1.03	0.07	0.195	0.298
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 7+11(7)	DSI 7	Close	11	2462	19.79	21.50	1.483	97.05	1.03	0.01	0.516	0.788
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+1(1)	DSI 7	Close	42	5210	18.51	19.50	1.256	100.00	1.000	-0.04	0.091	0.114
	WLAN5GHz	802.11ac-VHT80 MCS0	Back Top	5mm	Ant 6+1(1)	DSI 7	Close	42	5210	18.51	19.50	1.256	100.00	1.000	-0.17	0.770	0.967
60	WLAN5GHz	802.11ac-VHT80 MCS0	Back Right	5mm	Ant 6+1(1)	DSI 7	Close	42	5210	18.51	19.50	1.256	100.00	1.000	-0.09	0.798	1.002
	WLAN5GHz	802.11ac-VHT80 MCS0	Back 1	5mm	Ant 6+1(1)	DSI 7	Close	42	5210	18.51	19.50	1.256	100.00	1.000	0.06	0.421	0.529
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6+1(1)	DSI 7	Close	42	5210	18.51	19.50	1.256	100.00	1.000	-0.17	0.235	0.295
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6+1(1)	DSI 7	Close	42	5210	18.51	19.50	1.256	100.00	1.000	-0.19	0.671	0.843
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+1(1)	DSI 7	Close	155	5775	17.30	19.00	1.479	100.00	1.000	0.15	0.048	0.071
	WLAN5GHz	802.11ac-VHT80 MCS0	Back Top	5mm	Ant 6+1(1)	DSI 7	Close	155	5775	17.30	19.00	1.479	100.00	1.000	-0.19	0.372	0.550
61	WLAN5GHz	802.11ac-VHT80 MCS0	Back Right	5mm	Ant 6+1(1)	DSI 7	Close	155	5775	17.30	19.00	1.479	100.00	1.000	-0.01	0.447	0.661
	WLAN5GHz	802.11ac-VHT80 MCS0	Back 1	5mm	Ant 6+1(1)	DSI 7	Close	155	5775	17.30	19.00	1.479	100.00	1.000	0.01	0.245	0.362
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6+1(1)	DSI 7	Close	155	5775	17.30	19.00	1.479	100.00	1.000	-0.09	0.195	0.288
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6+1(1)	DSI 7	Close	155	5775	17.30	19.00	1.479	100.00	1.000	0.10	0.369	0.546

【Bluetooth SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	BR / EDR 1Mbps	Front	5mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	0.14	0.093	0.146
62	Bluetooth	BR / EDR 1Mbps	Back Top	5mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	-0.19	0.157	0.247
	Bluetooth	BR / EDR 1Mbps	Back Right	5mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	0.00	< 0.001	< 0.001
	Bluetooth	BR / EDR 1Mbps	Right Side	5mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	0.00	< 0.001	< 0.001
	Bluetooth	BR / EDR 1Mbps	Top Side	5mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	-0.01	0.111	0.175
	Bluetooth	BR / EDR 1Mbps	Front	5mm	Ant 11	Full Power	Close	39	2441	19.41	21.00	1.442	76.66	1.087	0.00	< 0.001	< 0.001
	Bluetooth	BR / EDR 1Mbps	Back Left	5mm	Ant 11	Full Power	Close	39	2441	19.41	21.00	1.442	76.66	1.087	0.10	0.043	0.067
	Bluetooth	BR / EDR 1Mbps	Left Side	5mm	Ant 11	Full Power	Close	39	2441	19.41	21.00	1.442	76.66	1.087	0.00	< 0.001	< 0.001
	Bluetooth	BR / EDR 1Mbps	Top Side	5mm	Ant 11	Full Power	Close	39	2441	19.41	21.00	1.442	76.66	1.087	-0.10	0.134	0.210



<Spot check>

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 0	DSI 7	132072	1720	18.52	19.6	1.282	100	1.000	-0.11	0.841	1.078
63	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	40185	2549.5	21.25	22	1.189	62.9	1.006	0	1.130	1.352
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	39750	2506	21.3	22	1.175	62.9	1.006	0.01	1.010	1.194
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	41055	2636.5	21.28	22	1.180	62.9	1.006	-0.03	1.080	1.282
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	41490	2680	21.3	22	1.175	62.9	1.006	0.07	1.110	1.312
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	40620	2593	21.29	22	1.178	62.9	1.006	0.02	1.050	1.244
64	LTE Band 48	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	55340	3560	18.92	20	1.282	62.9	1.006	0	0.977	1.26
	LTE Band 48	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	55830	3609	18.97	20	1.268	62.9	1.006	0.08	0.956	1.219
	LTE Band 48	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	56150	3641	18.9	20	1.288	62.9	1.006	0.01	0.913	1.183
	LTE Band 48	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	56640	3690	18.92	20	1.282	62.9	1.006	-0.05	0.945	1.219

**16.3 Body Worn Accessory SAR**

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900	GPRS 3 Tx slots	Front	5mm	Ant 3	DSI 3	Close	661	1880	22.81	23.70	1.227	-0.15	0.222	0.272
65	GSM1900	GPRS 3 Tx slots	Back Top	5mm	Ant 3	DSI 3	Close	661	1880	22.81	23.70	1.227	-0.06	1.050	1.288
	GSM1900	GPRS 3 Tx slots	Back Top	5mm	Ant 3	DSI 3	Headset	661	1880	22.81	23.70	1.227	0.07	0.994	1.220
	GSM1900	GPRS 3 Tx slots	Back Top	5mm	Ant 3	DSI 3	Close	512	1850.2	22.74	23.70	1.247	-0.14	1.000	1.247
	GSM1900	GPRS 3 Tx slots	Back Top	5mm	Ant 3	DSI 3	Close	810	1909.8	22.68	23.70	1.265	-0.10	1.010	1.278
	GSM1900	GPRS 3 Tx slots	Front	9mm	Ant 3	DSI 4	Close	661	1880	25.36	26.50	1.3	0.10	0.229	0.298
	GSM1900	GPRS 3 Tx slots	Back Top	13mm	Ant 3	DSI 4	Close	661	1880	25.36	26.50	1.3	0.11	0.402	0.523
	GSM1900	GPRS 3 Tx slots	Front	5mm	Ant 4	DSI 3	Close	661	1880	24.25	25.00	1.189	0.12	0.119	0.141
	GSM1900	GPRS 3 Tx slots	Back Right	5mm	Ant 4	DSI 3	Close	661	1880	24.25	25.00	1.189	-0.04	0.466	0.554
	GSM1900	GPRS 3 Tx slots	Front	9mm	Ant 4	DSI 4	Close	661	1880	24.25	25.00	1.189	0.14	0.069	0.082
	GSM1900	GPRS 3 Tx slots	Back Right	13mm	Ant 4	DSI 4	Close	661	1880	24.25	25.00	1.189	0.13	0.095	0.113

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 3	DSI 3	Close	9400	1880	17.55	19.20	1.462	-0.05	0.161	0.235
	WCDMA II	RMC 12.2Kbps	Back Top	5mm	Ant 3	DSI 3	Close	9400	1880	17.55	19.20	1.462	-0.10	0.640	0.936
66	WCDMA II	RMC 12.2Kbps	Back Top	5mm	Ant 3	DSI 3	Close	9262	1852.4	17.51	19.20	1.476	-0.04	0.719	1.061
	WCDMA II	RMC 12.2Kbps	Back Top	5mm	Ant 3	DSI 3	Close	9538	1907.6	17.53	19.20	1.469	-0.07	0.681	1.000
	WCDMA II	RMC 12.2Kbps	Front	9mm	Ant 3	DSI 4	Close	9400	1880	23.76	24.00	1.057	0.03	0.418	0.442
	WCDMA II	RMC 12.2Kbps	Back Top	13mm	Ant 3	DSI 4	Close	9400	1880	23.76	24.00	1.057	0.05	0.829	0.876
	WCDMA II	RMC 12.2Kbps	Back Top	13mm	Ant 3	DSI 4	Close	9262	1852.4	23.70	24.00	1.072	0.01	0.878	0.941
	WCDMA II	RMC 12.2Kbps	Back Top	13mm	Ant 3	DSI 4	Close	9538	1907.6	23.74	24.00	1.062	0.02	0.632	0.671
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 4	DSI 3	Close	9400	1880	22.17	22.70	1.13	0.14	0.245	0.277
	WCDMA II	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 3	Close	9400	1880	22.17	22.70	1.13	-0.12	0.893	1.009
	WCDMA II	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 3	Close	9262	1852.4	22.07	22.70	1.156	0.17	0.655	0.757
	WCDMA II	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 3	Close	9538	1907.6	22.16	22.70	1.132	-0.17	0.660	0.747
	WCDMA II	RMC 12.2Kbps	Front	9mm	Ant 4	DSI 4	Close	9400	1880	22.74	24.00	1.337	0.03	0.238	0.318
	WCDMA II	RMC 12.2Kbps	Back Right	13mm	Ant 4	DSI 4	Close	9400	1880	22.74	24.00	1.337	-0.17	0.322	0.431
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 3	DSI 3	Close	1413	1732.6	19.09	20.90	1.517	-0.03	0.252	0.382
	WCDMA IV	RMC 12.2Kbps	Back Top	5mm	Ant 3	DSI 3	Close	1413	1732.6	19.09	20.90	1.517	-0.14	0.820	1.244
	WCDMA IV	RMC 12.2Kbps	Back Top	5mm	Ant 3	DSI 3	Close	1312	1712.4	18.98	20.90	1.556	0.01	0.779	1.212
	WCDMA IV	RMC 12.2Kbps	Back Top	5mm	Ant 3	DSI 3	Close	1513	1752.6	19.03	20.90	1.538	0.01	0.826	1.270
	WCDMA IV	RMC 12.2Kbps	Back Top	5mm	Ant 3	DSI 3	Headset	1513	1752.6	19.03	20.90	1.538	0.04	0.787	1.210
	WCDMA IV	RMC 12.2Kbps	Front	9mm	Ant 3	DSI 4	Close	1413	1732.6	23.75	24.00	1.059	-0.10	0.618	0.654
	WCDMA IV	RMC 12.2Kbps	Back Top	13mm	Ant 3	DSI 4	Close	1413	1732.6	23.75	24.00	1.059	-0.14	0.913	0.967
	WCDMA IV	RMC 12.2Kbps	Back Top	13mm	Ant 3	DSI 4	Close	1312	1712.4	23.67	24.00	1.079	0.17	0.764	0.824
	WCDMA IV	RMC 12.2Kbps	Back Top	13mm	Ant 3	DSI 4	Close	1513	1752.6	23.73	24.00	1.064	-0.01	0.994	1.058
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 4	DSI 3	Close	1413	1732.6	21.16	22.20	1.271	0.16	0.251	0.319
	WCDMA IV	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 3	Close	1413	1732.6	21.16	22.20	1.271	0.19	0.890	1.131
67	WCDMA IV	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 3	Close	1312	1712.4	21.11	22.20	1.285	-0.07	0.988	1.270
	WCDMA IV	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 3	Headset	1312	1712.4	21.11	22.20	1.285	-0.08	0.911	1.171
	WCDMA IV	RMC 12.2Kbps	Back Right	5mm	Ant 4	DSI 3	Close	1513	1752.6	21.13	22.20	1.279	-0.13	0.916	1.172
	WCDMA IV	RMC 12.2Kbps	Front	9mm	Ant 4	DSI 4	Close	1413	1732.6	22.76	24.00	1.33	0.12	0.179	0.238
	WCDMA IV	RMC 12.2Kbps	Back Right	13mm	Ant 4	DSI 4	Close	1413	1732.6	22.76	24.00	1.33	-0.02	0.401	0.533

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 3	DSI 3	Close	21100	2535	16.41	18.10	1.476			0.14	0.202	0.298
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 3	DSI 3	Close	21100	2535	16.35	18.10	1.496			0.15	0.197	0.295
	LTE Band 7	20M	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	21100	2535	16.41	18.10	1.476			-0.01	0.837	1.235
	LTE Band 7	20M	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Headset	21100	2535	16.41	18.10	1.476			0.13	0.793	1.170
	LTE Band 7	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	20850	2510	16.35	18.10	1.496			0.02	0.512	0.766
	LTE Band 7	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	21350	2560	16.38	18.10	1.486			0.03	0.823	1.223
	LTE Band 7	20M	QPSK	50	0	Back Top	5mm	Ant 3	DSI 3	Close	21100	2535	16.35	18.10	1.496			-0.18	0.763	1.141
	LTE Band 7	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 3	Close	20850	2510	16.25	18.10	1.531			-0.10	0.629	0.963



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	LTE Band 7	20	QPSK	50	50	Back Top	5mm	Ant 3	DSI 3	Close	21350	2560	16.24	18.10	1.535			-0.01	0.749	1.150
	LTE Band 7	20	QPSK	100	0	Back Top	5mm	Ant 3	DSI 3	Close	21100	2535	16.33	18.10	1.503			-0.07	0.755	1.135
	LTE Band 7	20M	QPSK	1	0	Front	9mm	Ant 3	DSI 4	Close	21100	2535	23.35	24.00	1.161			-0.15	0.646	0.750
	LTE Band 7	20M	QPSK	50	0	Front	9mm	Ant 3	DSI 4	Close	21100	2535	22.36	23.00	1.159			0.08	0.660	0.765
	LTE Band 7	20M	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	21100	2535	23.35	24.00	1.161			-0.10	0.825	0.958
	LTE Band 7	20	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	20850	2510	23.28	24.00	1.18			-0.10	0.523	0.617
	LTE Band 7	20	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	21350	2560	23.33	24.00	1.167			-0.13	0.899	1.049
	LTE Band 7	20M	QPSK	50	0	Back Top	13mm	Ant 3	DSI 4	Close	21100	2535	22.36	23.00	1.159			0.19	0.717	0.831
	LTE Band 7	20	QPSK	50	0	Back Top	13mm	Ant 3	DSI 4	Close	20850	2510	22.31	23.00	1.172			-0.02	0.531	0.622
	LTE Band 7	20	QPSK	50	0	Back Top	13mm	Ant 3	DSI 4	Close	21350	2560	22.34	23.00	1.164			-0.06	0.690	0.803
	LTE Band 7	20	QPSK	100	0	Back Top	13mm	Ant 3	DSI 4	Close	21100	2535	22.32	23.00	1.169			-0.08	0.717	0.838
	LTE Band 7	20M	QPSK	1	99	Back Top	5mm	Ant 3	DSI 3	Close	21100+21298	2535+2554.8	16.35	18.10	1.496			0.02	0.805	1.204
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 3	Close	21100	2535	19.08	20.00	1.236			-0.13	0.096	0.119
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 3	Close	21100	2535	18.98	20.00	1.265			-0.18	0.100	0.127
68	LTE Band 7	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	21100	2535	19.08	20.00	1.236			-0.17	1.030	1.273
	LTE Band 7	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Headset	21100	2535	19.08	20.00	1.236			0.06	0.981	1.213
	LTE Band 7	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	20850	2510	19.05	20.00	1.245			-0.09	0.914	1.138
	LTE Band 7	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	21350	2560	19.06	20.00	1.242			-0.15	0.967	1.201
	LTE Band 7	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	21100	2535	18.98	20.00	1.265			0.04	0.964	1.219
	LTE Band 7	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	20850	2510	18.92	20.00	1.282			-0.10	0.844	1.082
	LTE Band 7	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	21350	2560	18.96	20.00	1.271			-0.18	0.933	1.186
	LTE Band 7	20	QPSK	100	0	Back Right	5mm	Ant 4	DSI 3	Close	21100	2535	18.94	20.00	1.276			0.17	0.883	1.127
	LTE Band 7	20M	QPSK	1	0	Front	9mm	Ant 4	DSI 4	Close	21100	2535	21.95	23.00	1.274			0.14	0.160	0.204
	LTE Band 7	20M	QPSK	50	0	Front	9mm	Ant 4	DSI 4	Close	21100	2535	20.98	22.00	1.265			-0.12	0.148	0.187
	LTE Band 7	20M	QPSK	1	0	Back Right	13mm	Ant 4	DSI 4	Close	21100	2535	21.95	23.00	1.274			0.14	0.552	0.703
	LTE Band 7	20M	QPSK	50	0	Back Right	13mm	Ant 4	DSI 4	Close	21100	2535	20.98	22.00	1.265			-0.04	0.469	0.593
	LTE Band 7	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 3	Close	21100+21298	2535+2554.8	19.02	20.00	1.253			0.02	0.951	1.192
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 3	DSI 3	Close	26340	1880	17.99	19.80	1.517			-0.12	0.189	0.287
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 3	DSI 3	Close	26340	1880	17.95	19.80	1.531			-0.10	0.179	0.274
	LTE Band 25	20M	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	26340	1880	17.99	19.80	1.517			-0.19	0.712	1.080
	LTE Band 25	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	26140	1860	17.95	19.80	1.531			0.01	0.761	1.165
	LTE Band 25	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	26590	1905	17.91	19.80	1.545			-0.03	0.694	1.072
	LTE Band 25	20M	QPSK	50	0	Back Top	5mm	Ant 3	DSI 3	Close	26340	1880	17.95	19.80	1.531			-0.05	0.692	1.059
	LTE Band 25	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 3	Close	26140	1860	17.81	19.80	1.581			0.10	0.710	1.123
	LTE Band 25	20	QPSK	50	24	Back Top	5mm	Ant 3	DSI 3	Close	26590	1905	17.81	19.80	1.581			0.11	0.685	1.083
	LTE Band 25	20	QPSK	100	0	Back Top	5mm	Ant 3	DSI 3	Close	26340	1880	17.89	19.80	1.552			-0.04	0.682	1.058
	LTE Band 25	20M	QPSK	1	0	Front	9mm	Ant 3	DSI 4	Close	26340	1880	23.36	24.00	1.159			0.17	0.525	0.608
	LTE Band 25	20M	QPSK	50	0	Front	9mm	Ant 3	DSI 4	Close	26340	1880	22.33	23.00	1.167			0.18	0.454	0.530
	LTE Band 25	20M	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	26340	1880	23.36	24.00	1.159			-0.08	0.910	1.055
	LTE Band 25	20	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	26140	1860	23.04	24.00	1.247			-0.07	0.876	1.092
	LTE Band 25	20	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	26590	1905	23.23	24.00	1.194			-0.03	0.843	1.007
	LTE Band 25	20M	QPSK	50	0	Back Top	13mm	Ant 3	DSI 4	Close	26340	1880	22.33	23.00	1.167			-0.04	0.789	0.921
	LTE Band 25	20	QPSK	50	0	Back Top	13mm	Ant 3	DSI 4	Close	26140	1860	22.00	23.00	1.259			-0.05	0.809	1.019
	LTE Band 25	20	QPSK	50	0	Back Top	13mm	Ant 3	DSI 4	Close	26590	1905	22.19	23.00	1.205			0.16	0.700	0.844
	LTE Band 25	20	QPSK	100	0	Back Top	13mm	Ant 3	DSI 4	Close	26340	1880	22.08	23.00	1.236			-0.17	0.757	0.936
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 3	Close	26340	1880	21.67	23.00	1.358			0.14	0.213	0.289
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 3	Close	26340	1880	20.68	22.00	1.355			-0.17	0.173	0.234
69	LTE Band 25	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	26340	1880	21.67	23.00	1.358			-0.03	0.938	1.274
	LTE Band 25	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Headset	26340	1880	21.67	23.00	1.358			0.07	0.897	1.218
	LTE Band 25	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	26140	1860	21.65	23.00	1.365			0.13	0.724	0.988
	LTE Band 25	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	26590	1905	21.62	23.00	1.374			0.11	0.858	1.179
	LTE Band 25	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	26340	1880	20.68	22.00	1.355			0.18	0.784	1.062
	LTE Band 25	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	26140	1860	20.60	22.00	1.38			0.18	0.645	0.890
	LTE Band 25	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	26590	1905	20.63	22.00	1.371			0.11	0.680	0.932
	LTE Band 25	20	QPSK	100	0	Back Right	5mm	Ant 4	DSI 3	Close	26340	1880	20.65	22.00	1.365			0.17	0.741	1.011
	LTE Band 25	20M	QPSK	1	0	Front	9mm	Ant 4	DSI 4	Close	26340	1880	21.67	23.00	1.358			-0.07	0.171	0.232
	LTE Band 25	20M	QPSK	50	0	Front	9mm	Ant 4	DSI 4	Close	26340	1880	20.68	22.00	1.355			0.01	0.141	0.191
	LTE Band 25	20M	QPSK	1	0	Back Right	13mm	Ant 4	DSI 4	Close	26340	1880	21.67	23.00	1.358			-0.12	0.183	0.249
	LTE Band 25	20M	QPSK	50	0	Back Right	13mm	Ant 4	DSI 4	Close	26340	1880	20.68	22.00	1.355			-0.10	0.152	0.206
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 3	DSI 3	Close	132322	1745	17.43	19.10	1.469			0.08	0.246	0.361
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 3	DSI 3	Close	132322	1745	17.29	19.10	1.517			-0.14	0.225	0.341
	LTE Band 66	20M	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	132322	1745	17.43	19.10	1.469			0.16	0.747	1.097
	LTE Band 66	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	132072	1720	17.41	19.10	1.476			-0.16	0.575	0.849
	LTE Band 66	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	132572	1770	17.33	19.10	1.503			-0.02	0.768	1.154
	LTE Band 66	20M	QPSK	50	0	Back Top	5mm	Ant 3	DSI 3	Close	132322	1745	17.29	19.10	1.517			0.07	0.639	0.969
	LTE Band 66	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 3	Close	132072	1720	17.15	19.10	1.567			-0.18	0.603	0.945
	LTE Band 66	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 3	Close	132572	1770	17.19	19.10	1.552			0.06	0.680	1.055
	LTE Band 66	20	QPSK	100	0	Back Top	5mm	Ant 3	DSI 3	Close	132322	1745	17.20	19.10	1.549			0.05	0.685	1.061
	LTE Band 66	20M	QPSK	1	0	Front	9mm	Ant 3	DSI 4	Close	132322	1745	23.28	24.00	1.153			0.14	0.714	0.823
	LTE Band 66	20	QPSK	1	0	Front	9mm	Ant 3	DSI 4	Close	132072	1720	23.24	24.00	1.191			0.12	0.541	0.644
	LTE Band 66	20	QPSK	1	0	Front	9mm	Ant 3	DSI 4	Close	132572	1770	23.18	24.00	1.208			-0.15	0.565	0.683
	LTE Band 66	20M	QPSK	50	0	Front	9mm	Ant 3	DSI 4	Close	132322	1745	22.20	23.00	1.202			-0.03	0.583	0.701
	LTE Band 66	20	QPSK	100	0															



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	LTE Band 66	20	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	132072	1720	23.24	24.00	1.191			-0.17	0.709	0.844
	LTE Band 66	20	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	132572	1770	23.18	24.00	1.208			0.03	1.020	1.232
	LTE Band 66	20M	QPSK	50	0	Back Top	13mm	Ant 3	DSI 4	Close	132322	1745	22.20	23.00	1.202			0.11	0.755	0.908
	LTE Band 66	20	QPSK	50	0	Back Top	13mm	Ant 3	DSI 4	Close	132072	1720	22.09	23.00	1.233			0.08	0.573	0.707
	LTE Band 66	20	QPSK	50	0	Back Top	13mm	Ant 3	DSI 4	Close	132572	1770	22.12	23.00	1.225			0.05	0.790	0.968
	LTE Band 66	20M	QPSK	100	0	Back Top	13mm	Ant 3	DSI 4	Close	132322	1745	22.12	23.00	1.225			-0.06	0.753	0.922
	LTE Band 66	20M	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	132572+132374	1770+1750.2	23.11	24.00	1.227			0.02	0.956	1.173
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 3	Close	132322	1745	21.23	22.80	1.435			-0.12	0.191	0.274
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 3	Close	132322	1745	20.60	22.00	1.38			0.05	0.173	0.239
70	LTE Band 66	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	132322	1745	21.23	22.80	1.435			-0.08	0.884	1.269
	LTE Band 66	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Headset	132322	1745	21.23	22.80	1.435			0.12	0.851	1.221
	LTE Band 66	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	132072	1720	21.22	22.80	1.439			-0.01	0.872	1.255
	LTE Band 66	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	132572	1770	21.19	22.80	1.449			-0.03	0.736	1.066
	LTE Band 66	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	132322	1745	20.60	22.00	1.38			0.15	0.816	1.126
	LTE Band 66	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	132072	1720	20.56	22.00	1.393			-0.06	0.828	1.153
	LTE Band 66	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	132572	1770	20.54	22.00	1.4			0.13	0.711	0.995
	LTE Band 66	20	QPSK	100	0	Back Right	5mm	Ant 4	DSI 3	Close	132322	1745	20.61	22.00	1.377			0.13	0.611	0.841
	LTE Band 66	20M	QPSK	1	0	Front	9mm	Ant 4	DSI 4	Close	132322	1745	21.70	23.00	1.349			0.03	0.145	0.196
	LTE Band 66	20M	QPSK	50	0	Front	9mm	Ant 4	DSI 4	Close	132322	1745	20.69	22.00	1.352			0.17	0.119	0.161
	LTE Band 66	20M	QPSK	1	0	Back Right	13mm	Ant 4	DSI 4	Close	132322	1745	21.70	23.00	1.349			-0.01	0.418	0.564
	LTE Band 66	20M	QPSK	50	0	Back Right	13mm	Ant 4	DSI 4	Close	132322	1745	20.69	22.00	1.352			-0.07	0.301	0.407
	LTE Band 66	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 3	Close	132322+132520	1745+1764.8	21.20	22.80	1.445			0.03	0.801	1.157
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 3	DSI 3	Close	40620	2593	18.59	20.30	1.483	62.9	1.006	-0.16	0.290	0.433
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 3	DSI 3	Close	40620	2593	18.38	20.30	1.556	62.9	1.006	0.09	0.275	0.430
	LTE Band 41	20M	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	40620	2593	18.59	20.30	1.483	62.9	1.006	-0.09	0.687	1.025
	LTE Band 41	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	39750	2506	18.52	20.30	1.507	62.9	1.006	0.09	0.764	1.158
	LTE Band 41	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	40185	2549.5	18.48	20.30	1.521	62.9	1.006	-0.01	0.772	1.181
	LTE Band 41	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	41055	2636.5	18.55	20.30	1.496	62.9	1.006	0.03	0.745	1.121
	LTE Band 41	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	41490	2680	18.46	20.30	1.528	62.9	1.006	-0.03	0.668	1.027
	LTE Band 41	20M	QPSK	50	0	Back Top	5mm	Ant 3	DSI 3	Close	40620	2593	18.38	20.30	1.556	62.9	1.006	-0.18	0.723	1.132
	LTE Band 41	20	QPSK	50	0	Back Top	5mm	Ant 3	DSI 3	Close	39750	2506	18.30	20.30	1.585	62.9	1.006	-0.04	0.721	1.150
	LTE Band 41	20	QPSK	50	24	Back Top	5mm	Ant 3	DSI 3	Close	40185	2549.5	18.31	20.30	1.581	62.9	1.006	0.00	0.704	1.120
	LTE Band 41	20	QPSK	50	24	Back Top	5mm	Ant 3	DSI 3	Close	41055	2636.5	18.31	20.30	1.581	62.9	1.006	0.07	0.698	1.110
	LTE Band 41	20	QPSK	50	24	Back Top	5mm	Ant 3	DSI 3	Close	41490	2680	18.31	20.30	1.581	62.9	1.006	-0.01	0.690	1.097
	LTE Band 41	20	QPSK	100	0	Back Top	5mm	Ant 3	DSI 3	Close	40620	2593	18.45	20.30	1.531	62.9	1.006	0.00	0.704	1.084
	LTE Band 41	20M	QPSK	1	0	Front	9mm	Ant 3	DSI 4	Close	40620	2593	23.47	24.00	1.13	62.9	1.006	-0.05	0.568	0.646
	LTE Band 41	20	QPSK	1	0	Front	9mm	Ant 3	DSI 4	Close	39750	2506	23.37	24.00	1.156	62.9	1.006	-0.08	0.523	0.608
	LTE Band 41	20	QPSK	1	0	Front	9mm	Ant 3	DSI 4	Close	40185	2549.5	23.40	24.00	1.148	62.9	1.006	0.03	0.766	0.885
	LTE Band 41	20	QPSK	1	0	Front	9mm	Ant 3	DSI 4	Close	41055	2636.5	23.42	24.00	1.143	62.9	1.006	0.06	0.554	0.637
	LTE Band 41	20	QPSK	1	0	Front	9mm	Ant 3	DSI 4	Close	41490	2680	23.27	24.00	1.183	62.9	1.006	-0.08	0.700	0.833
	LTE Band 41	20M	QPSK	50	0	Front	9mm	Ant 3	DSI 4	Close	40620	2593	22.60	23.00	1.096	62.9	1.006	0.00	0.448	0.494
	LTE Band 41	20	QPSK	100	0	Front	9mm	Ant 3	DSI 4	Close	40620	2593	22.52	23.00	1.117	62.9	1.006	0.18	0.412	0.463
	LTE Band 41	20M	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	40620	2593	23.47	24.00	1.13	62.9	1.006	0.13	0.661	0.751
	LTE Band 41	20	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	39750	2506	23.37	24.00	1.156	62.9	1.006	-0.15	0.589	0.685
	LTE Band 41	20	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	40185	2549.5	23.40	24.00	1.148	62.9	1.006	-0.03	0.709	0.819
	LTE Band 41	20	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	41055	2636.5	23.42	24.00	1.143	62.9	1.006	0.16	0.587	0.675
	LTE Band 41	20	QPSK	1	0	Back Top	13mm	Ant 3	DSI 4	Close	41490	2680	23.27	24.00	1.183	62.9	1.006	0.01	0.525	0.625
	LTE Band 41	20M	QPSK	50	0	Back Top	13mm	Ant 3	DSI 4	Close	40620	2593	22.60	23.00	1.096	62.9	1.006	0.13	0.516	0.569
	LTE Band 41	20	QPSK	100	0	Back Top	13mm	Ant 3	DSI 4	Close	40620	2593	22.52	23.00	1.117	62.9	1.006	0.02	0.499	0.561
	LTE Band 41 HPUE	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	40620	2593	20.42	21.90	1.406	42.9	1.009	0.03	0.725	1.029
	LTE Band 41 HPUE	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	39750	2506	20.36	21.90	1.426	42.9	1.009	0.01	0.724	1.042
	LTE Band 41 HPUE	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	40185	2549.5	20.38	21.90	1.419	42.9	1.009	0.03	0.756	1.082
	LTE Band 41 HPUE	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	41055	2636.5	20.33	21.90	1.435	42.9	1.009	-0.08	0.708	1.025
	LTE Band 41 HPUE	20	QPSK	1	0	Back Top	5mm	Ant 3	DSI 3	Close	41490	2680	20.37	21.90	1.422	42.9	1.009	-0.08	0.687	0.986
	LTE Band 41	20M	QPSK	1	99	Back Top	5mm	Ant 3	DSI 3	Close	40185+40383	2549.5+2569.3	18.35	20.30	1.567	62.9	1.006	0.03	0.702	1.107
	LTE Band 41 HPUE	20M	QPSK	1	99	Back Top	5mm	Ant 3	DSI 3	Close	40185+40383	2549.5+2569.3	20.15	21.90	1.496	42.9	1.009	0.02	0.689	1.040
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 3	Close	40620	2593	20.55	21.50	1.245	62.9	1.006	-0.11	0.104	0.130
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 3	Close	40620	2593	20.09	21.50	1.384	62.9	1.006	-0.04	0.081	0.113
	LTE Band 41	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	40620	2593	20.55	21.50	1.245	62.9	1.006	0.10	0.870	1.090
	LTE Band 41	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	39750	2506	20.42	21.50	1.282	62.9	1.006	0.12	0.691	0.891
71	LTE Band 41	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	40185	2549.5	20.45	21.50	1.274	62.9	1.006	-0.03	1.010	1.294
	LTE Band 41	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Headset	40185	2549.5	20.45	21.50	1.274	62.9	1.006	0.05	0.975	1.250
	LTE Band 41	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	41055	2636.5	20.39	21.50	1.291	62.9	1.006	-0.02	0.826	1.073
	LTE Band 41	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	41490	2680	20.38	21.50	1.294	62.9	1.006	0.10	0.894	1.164
	LTE Band 41	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	40620	2593	20.09	21.50	1.384	62.9	1.006	-0.05	0.812	1.131
	LTE Band 41	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	39750	2506	20.02	21.50	1.406	62.9	1.006	-0.15	0.706	0.999
	LTE Band 41	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	40185	2549.5	20.06	21.50	1.393	62.9	1.006	-0.07	0.812	1.138
	LTE Band 41	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	41055	2636.5	19.96	21.50	1.426	62.9	1.006	-0.13	0.851	1.221
	LTE Band 41	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	41490	2680	19.92	21.50						



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	LTE Band 41	20M	QPSK	1	0	Front	9mm	Ant 4	DSI 4	Close	40620	2593	22.05	23.00	1.245	62.9	1.006	0.11	0.136	0.170
	LTE Band 41	20M	QPSK	50	0	Front	9mm	Ant 4	DSI 4	Close	40620	2593	21.09	22.00	1.233	62.9	1.006	-0.09	0.113	0.140
	LTE Band 41	20M	QPSK	1	0	Back Right	13mm	Ant 4	DSI 4	Close	40620	2593	22.05	23.00	1.245	62.9	1.006	-0.18	0.538	0.674
	LTE Band 41	20	QPSK	1	0	Back Right	13mm	Ant 4	DSI 4	Close	39750	2506	21.92	23.00	1.282	62.9	1.006	-0.13	0.259	0.334
	LTE Band 41	20	QPSK	1	0	Back Right	13mm	Ant 4	DSI 4	Close	40185	2549.5	21.95	23.00	1.274	62.9	1.006	-0.05	0.477	0.611
	LTE Band 41	20	QPSK	1	0	Back Right	13mm	Ant 4	DSI 4	Close	41055	2636.5	21.89	23.00	1.291	62.9	1.006	0.07	0.372	0.483
	LTE Band 41	20	QPSK	1	0	Back Right	13mm	Ant 4	DSI 4	Close	41490	2680	21.88	23.00	1.294	62.9	1.006	-0.05	0.389	0.506
	LTE Band 41	20M	QPSK	50	0	Back Right	13mm	Ant 4	DSI 4	Close	40620	2593	21.09	22.00	1.233	62.9	1.006	-0.08	0.453	0.562
	LTE Band 41 HPUE	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	40620	2593	22.29	23.10	1.205	42.9	1.009	0.02	0.981	1.193
	LTE Band 41 HPUE	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	39750	2506	22.24	23.10	1.219	42.9	1.009	0.06	0.681	0.838
	LTE Band 41 HPUE	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	40185	2549.5	22.27	23.10	1.211	42.9	1.009	-0.08	0.996	1.217
	LTE Band 41 HPUE	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	41055	2636.5	22.18	23.10	1.236	42.9	1.009	0.00	0.815	1.016
	LTE Band 41 HPUE	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	41490	2680	22.21	23.10	1.227	42.9	1.009	0.03	0.882	1.092
	LTE Band 41	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 3	Close	40185+40383	2549.5+2569.3	20.21	21.50	1.346	62.9	1.006	0.02	0.891	1.206
	LTE Band 41 HPUE	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 3	Close	40185+40383	2549.5+2569.3	22.11	23.10	1.256	42.9	1.009	0.01	0.881	1.116
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 3	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	0.09	0.044	0.054
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 3	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	-0.19	0.024	0.029
	LTE Band 42	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	-0.18	0.660	0.813
	LTE Band 42	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	42190	3460	23.06	24.00	1.242	62.9	1.006	0.05	0.870	1.087
	LTE Band 42	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	42990	3540	23.02	24.00	1.253	62.9	1.006	0.11	0.594	0.749
	LTE Band 42	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	-0.02	0.319	0.390
	LTE Band 42	20	QPSK	100	0	Back Right	5mm	Ant 4	DSI 3	Close	42590	3500	22.13	23.00	1.222	62.9	1.006	-0.10	0.285	0.350
	LTE Band 42	20M	QPSK	1	0	Front	9mm	Ant 4	DSI 4	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	-0.17	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Front	9mm	Ant 4	DSI 4	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	0.13	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Back Right	13mm	Ant 4	DSI 4	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	0.06	0.312	0.384
	LTE Band 42	20M	QPSK	50	0	Back Right	13mm	Ant 4	DSI 4	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	0.01	0.136	0.166
	LTE Band 42	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 3	Close	42190+42388	3460+3479.8	23.00	24.00	1.259	62.9	1.006	0.03	0.758	0.960
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 6	DSI 3	Close	42590	3500	20.04	21.50	1.4	62.9	1.006	0.02	0.177	0.249
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 6	DSI 3	Close	42590	3500	19.93	21.50	1.435	62.9	1.006	-0.15	0.144	0.208
72	LTE Band 42	20M	QPSK	1	0	Back Top	5mm	Ant 6	DSI 3	Close	42590	3500	20.04	21.50	1.4	62.9	1.006	-0.00	0.829	1.168
	LTE Band 42	20	QPSK	1	0	Back Top	5mm	Ant 6	DSI 3	Close	42190	3460	20.02	21.50	1.406	62.9	1.006	-0.05	0.814	1.151
	LTE Band 42	20	QPSK	1	0	Back Top	5mm	Ant 6	DSI 3	Close	42990	3540	20.03	21.50	1.403	62.9	1.006	0.03	0.716	1.011
	LTE Band 42	20M	QPSK	50	0	Back Top	5mm	Ant 6	DSI 3	Close	42590	3500	19.93	21.50	1.435	62.9	1.006	-0.13	0.770	1.112
	LTE Band 42	20	QPSK	50	0	Back Top	5mm	Ant 6	DSI 3	Close	42190	3460	19.86	21.50	1.459	62.9	1.006	0.01	0.686	1.007
	LTE Band 42	20	QPSK	50	0	Back Top	5mm	Ant 6	DSI 3	Close	42990	3540	19.91	21.50	1.442	62.9	1.006	-0.13	0.730	1.059
	LTE Band 42	20	QPSK	100	0	Back Top	5mm	Ant 6	DSI 3	Close	42190	3460	19.86	21.50	1.459	62.9	1.006	0.02	0.681	1.000
	LTE Band 42	20M	QPSK	1	0	Front	9mm	Ant 6	DSI 4	Close	42590	3500	22.03	23.00	1.25	62.9	1.006	0.14	0.191	0.240
	LTE Band 42	20M	QPSK	50	0	Front	9mm	Ant 6	DSI 4	Close	42590	3500	21.24	22.00	1.191	62.9	1.006	0.06	0.102	0.122
	LTE Band 42	20M	QPSK	1	0	Back Top	13mm	Ant 6	DSI 4	Close	42590	3500	22.03	23.00	1.25	62.9	1.006	0.07	0.281	0.353
	LTE Band 42	20M	QPSK	50	0	Back Top	13mm	Ant 6	DSI 4	Close	42590	3500	21.24	22.00	1.191	62.9	1.006	-0.13	0.158	0.189
	LTE Band 42	20M	QPSK	1	99	Back Top	5mm	Ant 6	DSI 3	Close	42590+42788	3500+3519.8	19.98	21.50	1.419	62.9	1.006	0.03	0.756	1.079
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 8	DSI 3	Close	42590	3500	19.21	20.90	1.476	62.9	1.006	-0.15	0.113	0.168
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 8	DSI 3	Close	42590	3500	19.10	20.90	1.514	62.9	1.006	0.01	0.101	0.154
	LTE Band 42	20M	QPSK	1	0	Back Top	5mm	Ant 8	DSI 3	Close	42590	3500	19.21	20.90	1.476	62.9	1.006	-0.19	0.643	0.955
	LTE Band 42	20	QPSK	1	0	Back Top	5mm	Ant 8	DSI 3	Close	42190	3460	19.20	20.90	1.479	62.9	1.006	0.08	0.607	0.903
	LTE Band 42	20	QPSK	1	0	Back Top	5mm	Ant 8	DSI 3	Close	42990	3540	19.19	20.90	1.483	62.9	1.006	-0.08	0.618	0.922
	LTE Band 42	20M	QPSK	50	0	Back Top	5mm	Ant 8	DSI 3	Close	42590	3500	19.10	20.90	1.514	62.9	1.006	-0.15	0.512	0.780
	LTE Band 42	20	QPSK	100	0	Back Top	5mm	Ant 8	DSI 3	Close	42590	3500	18.98	20.90	1.556	62.9	1.006	0.13	0.541	0.847
	LTE Band 42	20M	QPSK	1	0	Front	9mm	Ant 8	DSI 4	Close	42590	3500	23.25	24.00	1.189	62.9	1.006	-0.03	0.250	0.299
	LTE Band 42	20M	QPSK	50	0	Front	9mm	Ant 8	DSI 4	Close	42590	3500	22.19	23.00	1.205	62.9	1.006	0.05	0.132	0.160
	LTE Band 42	20M	QPSK	1	0	Back Top	13mm	Ant 8	DSI 4	Close	42590	3500	23.25	24.00	1.189	62.9	1.006	0.19	0.619	0.740
	LTE Band 42	20M	QPSK	50	0	Back Top	13mm	Ant 8	DSI 4	Close	42590	3500	22.19	23.00	1.205	62.9	1.006	-0.08	0.334	0.405
	LTE Band 42	20M	QPSK	1	99	Back Top	5mm	Ant 8	DSI 3	Close	42590+42788	3500+3519.8	19.15	20.90	1.496	62.9	1.006	0.03	0.556	0.837
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 3	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	0.03	0.099	0.121
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 3	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	0.01	0.098	0.119
	LTE Band 48	20M	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	0.02	0.810	0.991
	LTE Band 48	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	55340	3560	22.97	24.00	1.268	62.9	1.006	-0.02	0.897	1.144
	LTE Band 48	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	56150	3641	22.95	24.00	1.274	62.9	1.006	-0.07	0.725	0.929
	LTE Band 48	20	QPSK	1	0	Back Right	5mm	Ant 4	DSI 3	Close	56640	3690	23.09	24.00	1.233	62.9	1.006	0.11	0.794	0.985
	LTE Band 48	20M	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	-0.02	0.670	0.816
	LTE Band 48	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	55340	3560	22.11	23.00	1.227	62.9	1.006	-0.04	0.796	0.983
	LTE Band 48	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	56150	3641	22.03	23.00	1.25	62.9	1.006	-0.01	0.587	0.738
	LTE Band 48	20	QPSK	50	0	Back Right	5mm	Ant 4	DSI 3	Close	56640	3690	22.09	23.00	1.233	62.9	1.006	0.02	0.643	0.798
	LTE Band 48	20	QPSK	100	0	Back Right	5mm	Ant 4	DSI 3	Close	55830	3609	22.11	23.00	1.227	62.9	1.006	0.03	0.575	0.710
	LTE Band 48	20M	QPSK	1	0	Front	9mm	Ant 4	DSI 4	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	-0.08	0.064	0.078
	LTE Band 48	20M	QPSK	50	0	Front	9mm	Ant 4	DSI 4	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	0.09	0.057	0.069
	LTE Band 48	20M	QPSK	1	0	Back Right	13mm	Ant 4	DSI 4	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	-0.03	0.167	0.204
	LTE Band 48	20M	QPSK	50	0	Back Right	13mm	Ant 4	DSI 4	Close	55830									



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	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 6	DSI 3	Close	55830	3609	19.91	21.50	1.442	62.9	1.006	0.03	0.061	0.088
	LTE Band 48	20M	QPSK	1	0	Back Top	5mm	Ant 6	DSI 3	Close	55830	3609	20.08	21.50	1.387	62.9	1.006	-0.16	0.484	0.675
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 6	DSI 3	Close	55340	3560	20.05	21.50	1.396	62.9	1.006	-0.13	0.574	0.806
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 6	DSI 3	Close	56150	3641	20.03	21.50	1.403	62.9	1.006	-0.15	0.501	0.707
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 6	DSI 3	Close	56640	3690	19.98	21.50	1.419	62.9	1.006	0.08	0.396	0.565
	LTE Band 48	20M	QPSK	50	0	Back Top	5mm	Ant 6	DSI 3	Close	55830	3609	19.91	21.50	1.442	62.9	1.006	0.19	0.536	0.778
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 6	DSI 3	Close	55340	3560	19.81	21.50	1.476	62.9	1.006	0.02	0.586	0.870
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 6	DSI 3	Close	56150	3641	19.82	21.50	1.472	62.9	1.006	-0.19	0.542	0.803
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 6	DSI 3	Close	56640	3690	19.90	21.50	1.445	62.9	1.006	0.15	0.414	0.602
	LTE Band 48	20	QPSK	100	0	Back Top	5mm	Ant 6	DSI 3	Close	55830	3609	19.80	21.50	1.479	62.9	1.006	-0.05	0.504	0.750
	LTE Band 48	20M	QPSK	1	0	Front	9mm	Ant 6	DSI 4	Close	55830	3609	21.98	23.00	1.265	62.9	1.006	0.05	0.031	0.039
	LTE Band 48	20M	QPSK	50	0	Front	9mm	Ant 6	DSI 4	Close	55830	3609	20.81	22.00	1.315	62.9	1.006	-0.02	0.032	0.042
	LTE Band 48	20M	QPSK	1	0	Back Top	13mm	Ant 6	DSI 4	Close	55830	3609	21.98	23.00	1.265	62.9	1.006	-0.16	0.088	0.112
	LTE Band 48	20M	QPSK	50	0	Back Top	13mm	Ant 6	DSI 4	Close	55830	3609	20.81	22.00	1.315	62.9	1.006	-0.13	0.080	0.106
	LTE Band 48	20M	QPSK	1	99	Back Top	5mm	Ant 6	DSI 3	Close	55340+55538	3560+3579.8	19.75	21.50	1.496	62.9	1.006	0.02	0.501	0.754
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 8	DSI 3	Close	55830	3609	19.82	21.10	1.343	62.9	1.006	-0.04	0.165	0.223
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 8	DSI 3	Close	55830	3609	19.70	21.10	1.38	62.9	1.006	-0.15	0.146	0.203
	LTE Band 48	20M	QPSK	1	0	Back Top	5mm	Ant 8	DSI 3	Close	55830	3609	19.82	21.10	1.343	62.9	1.006	-0.04	0.752	1.016
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 8	DSI 3	Close	55340	3560	19.68	21.10	1.387	62.9	1.006	0.01	0.702	0.980
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 8	DSI 3	Close	56150	3641	19.77	21.10	1.358	62.9	1.006	-0.16	0.741	1.012
	LTE Band 48	20	QPSK	1	0	Back Top	5mm	Ant 8	DSI 3	Close	56640	3690	19.69	21.10	1.384	62.9	1.006	-0.08	0.636	0.886
	LTE Band 48	20M	QPSK	50	0	Back Top	5mm	Ant 8	DSI 3	Close	55830	3609	19.70	21.10	1.38	62.9	1.006	0.09	0.699	0.970
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 8	DSI 3	Close	55340	3560	19.56	21.10	1.426	62.9	1.006	0.06	0.698	1.001
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 8	DSI 3	Close	56150	3641	19.69	21.10	1.384	62.9	1.006	0.14	0.694	0.966
	LTE Band 48	20	QPSK	50	0	Back Top	5mm	Ant 8	DSI 3	Close	56640	3690	19.69	21.10	1.384	62.9	1.006	-0.17	0.678	0.944
	LTE Band 48	20	QPSK	100	0	Back Top	5mm	Ant 8	DSI 3	Close	55830	3609	19.56	21.10	1.426	62.9	1.006	0.09	0.690	0.990
	LTE Band 48	20M	QPSK	1	0	Front	9mm	Ant 8	DSI 4	Close	55830	3609	23.29	24.00	1.178	62.9	1.006	0.08	0.262	0.310
	LTE Band 48	20M	QPSK	50	0	Front	9mm	Ant 8	DSI 4	Close	55830	3609	22.06	23.00	1.242	62.9	1.006	-0.01	0.206	0.257
	LTE Band 48	20M	QPSK	1	0	Back Top	13mm	Ant 8	DSI 4	Close	55830	3609	23.29	24.00	1.178	62.9	1.006	0.01	0.631	0.748
	LTE Band 48	20	QPSK	1	0	Back Top	13mm	Ant 8	DSI 4	Close	55340	3560	22.96	24.00	1.271	62.9	1.006	0.18	0.608	0.777
	LTE Band 48	20	QPSK	1	0	Back Top	13mm	Ant 8	DSI 4	Close	56150	3641	22.96	24.00	1.271	62.9	1.006	-0.02	0.637	0.814
	LTE Band 48	20	QPSK	1	0	Back Top	13mm	Ant 8	DSI 4	Close	56640	3690	22.99	24.00	1.262	62.9	1.006	-0.18	0.662	0.840
	LTE Band 48	20M	QPSK	50	0	Back Top	13mm	Ant 8	DSI 4	Close	55830	3609	22.06	23.00	1.242	62.9	1.006	-0.17	0.525	0.656
	LTE Band 48	20	QPSK	50	0	Back Top	13mm	Ant 8	DSI 4	Close	55340	3560	21.95	23.00	1.274	62.9	1.006	-0.08	0.511	0.655
	LTE Band 48	20	QPSK	50	0	Back Top	13mm	Ant 8	DSI 4	Close	56150	3641	21.88	23.00	1.294	62.9	1.006	-0.15	0.511	0.665
	LTE Band 48	20	QPSK	50	0	Back Top	13mm	Ant 8	DSI 4	Close	56640	3690	21.99	23.00	1.262	62.9	1.006	-0.04	0.534	0.678
	LTE Band 48	20	QPSK	100	0	Back Top	13mm	Ant 8	DSI 4	Close	55830	3609	22.02	23.00	1.253	62.9	1.006	0.15	0.519	0.654
	LTE Band 48	20M	QPSK	1	99	Back Top	5mm	Ant 8	DSI 3	Close	55830+56028	3609+3628.8	19.74	21.10	1.368	62.9	1.006	0.02	0.701	0.965

【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 3	DSI 3	Close	507000	2535	16.66	18.40	1.493			-0.12	0.169	0.252
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 3	DSI 3	Close	507000	2535	16.64	18.40	1.5			0.04	0.223	0.335
	FR1 n7	50M	BPSK	1	1	Back Top	5mm	Ant 3	DSI 3	Close	507000	2535	16.66	18.40	1.493			0.10	0.466	0.696
	FR1 n7	50M	BPSK	135	68	Back Top	5mm	Ant 3	DSI 3	Close	507000	2535	16.64	18.40	1.5			-0.01	0.618	0.927
	FR1 n7	50	BPSK	270	0	Back Top	5mm	Ant 3	DSI 3	Close	507000	2535	16.61	18.40	1.51			0.15	0.609	0.920
	FR1 n7	50M	BPSK	1	1	Front	9mm	Ant 3	DSI 4	Close	507000	2535	22.52	23.50	1.253			0.02	0.365	0.458
	FR1 n7	50M	BPSK	135	68	Front	9mm	Ant 3	DSI 4	Close	507000	2535	22.50	23.50	1.259			0.05	0.517	0.651
	FR1 n7	50M	BPSK	1	1	Back Top	13mm	Ant 3	DSI 4	Close	507000	2535	22.52	23.50	1.253			0.06	0.570	0.715
	FR1 n7	50M	BPSK	135	68	Back Top	13mm	Ant 3	DSI 4	Close	507000	2535	22.50	23.50	1.259			0.01	0.605	0.762
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 4	DSI 3	Close	507000	2535	19.19	20.80	1.449			-0.08	0.065	0.094
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 4	DSI 3	Close	507000	2535	19.17	20.80	1.455			-0.09	0.074	0.108
	FR1 n7	50M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 3	Close	507000	2535	19.19	20.80	1.449			-0.18	0.692	1.003
73	FR1 n7	50M	BPSK	135	68	Back Right	5mm	Ant 4	DSI 3	Close	507000	2535	19.17	20.80	1.455			-0.03	0.717	1.043
	FR1 n7	50	BPSK	270	0	Back Right	5mm	Ant 4	DSI 3	Close	507000	2535	19.11	20.80	1.476			0.10	0.675	0.996
	FR1 n7	50M	BPSK	1	1	Front	9mm	Ant 4	DSI 4	Close	507000	2535	22.27	23.00	1.183			0.12	0.078	0.092
	FR1 n7	50M	BPSK	135	68	Front	9mm	Ant 4	DSI 4	Close	507000	2535	22.25	23.00	1.189			0.04	0.085	0.101
	FR1 n7	50M	BPSK	1	1	Back Right	13mm	Ant 4	DSI 4	Close	507000	2535	22.27	23.00	1.183			-0.10	0.246	0.291
	FR1 n7	50M	BPSK	135	68	Back Right	13mm	Ant 4	DSI 4	Close	507000	2535	22.25	23.00	1.189			0.17	0.247	0.294
	FR1 n25	40M	BPSK	1	1	Front	5mm	Ant 3	DSI 3	Close	376500	1882.5	17.94	19.50	1.432			-0.03	0.201	0.288
	FR1 n25	40M	BPSK	108	54	Front	5mm	Ant 3	DSI 3	Close	376500	1882.5	17.81	19.50	1.476			-0.15	0.197	0.291
74	FR1 n25	40M	BPSK	1	1	Back Top	5mm	Ant 3	DSI 3	Close	376500	1882.5	17.94	19.50	1.432			-0.05	0.873	1.250
	FR1 n25	40M	BPSK	1	1	Back Top	5mm	Ant 3	DSI 3	Headset	376500	1882.5	17.94	19.50	1.432			0.12	0.847	1.213
	FR1 n25	40M	BPSK	108	54	Back Top	5mm	Ant 3	DSI 3	Close	376500	1882.5	17.81	19.50	1.476			-0.17	0.831	1.227
	FR1 n25	40	BPSK	216	0	Back Top	5mm	Ant 3	DSI 3	Close	376500	1882.5	17.78	19.50	1.486			0.08	0.801	1.190
	FR1 n25	40M	BPSK	1	1	Front	9mm	Ant 3	DSI 4	Close	376500	1882.5	23.32	24.00	1.169			0.10	0.426	0.498
	FR1 n25	40M	BPSK	108	54	Front	9mm	Ant 3	DSI 4	Close	376500	1882.5	23.20	24.00	1.202			-0.17	0.381	0.458
	FR1 n25	40M	BPSK	1	1	Back Top	13mm	Ant 3	DSI 4	Close	376500	1882.5	23.32	24.00	1.169			0.18	0.961	1.123
	FR1 n25	40M	BPSK	108	54	Back Top	13mm	Ant 3	DSI 4	Close	376500	1882.5	23.20	24.00	1.202			-0.08	0.875	1.052



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	FR1 n25	40	BPSK	216	0	Back Top	13mm	Ant 3	DSI 4	Close	376500	1882.5	23.18	24.00	1.208			0.03	0.838	1.012
	FR1 n66	45M	BPSK	1	1	Front	5mm	Ant 3	DSI 3	Close	349000	1745	18.59	19.80	1.321			0.12	0.245	0.324
	FR1 n66	45M	BPSK	120	60	Front	5mm	Ant 3	DSI 3	Close	349000	1745	18.57	19.80	1.327			-0.05	0.272	0.361
	FR1 n66	45M	BPSK	1	1	Back Top	5mm	Ant 3	DSI 3	Close	349000	1745	18.59	19.80	1.321			-0.14	0.854	1.128
75	FR1 n66	45M	BPSK	120	60	Back Top	5mm	Ant 3	DSI 3	Close	349000	1745	18.57	19.80	1.327			0.06	0.962	1.277
	FR1 n66	45M	BPSK	120	60	Back Top	5mm	Ant 3	DSI 3	Headset	349000	1745	18.57	19.80	1.327			0.03	0.920	1.221
	FR1 n66	45	BPSK	240	0	Back Top	5mm	Ant 3	DSI 3	Close	349000	1745	18.45	19.80	1.365			0.02	0.857	1.170
	FR1 n66	45M	BPSK	1	1	Front	9mm	Ant 3	DSI 4	Close	349000	1745	23.62	24.00	1.091			0.10	0.422	0.460
	FR1 n66	45M	BPSK	120	60	Front	9mm	Ant 3	DSI 4	Close	349000	1745	23.58	24.00	1.102			0.01	0.456	0.503
	FR1 n66	45M	BPSK	1	1	Back Top	13mm	Ant 3	DSI 4	Close	349000	1745	23.62	24.00	1.091			-0.10	0.836	0.912
	FR1 n66	45M	BPSK	120	60	Back Top	13mm	Ant 3	DSI 4	Close	349000	1745	23.58	24.00	1.102			-0.08	0.895	0.986
	FR1 n66	45	BPSK	240	0	Back Top	13mm	Ant 3	DSI 4	Close	349000	1745	22.53	23.50	1.25			-0.11	0.826	1.033
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 3	DSI 3	Close	518598	2592.99	16.62	18.20	1.439			-0.08	0.297	0.427
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 3	DSI 3	Close	518598	2592.99	16.59	18.20	1.449			0.17	0.299	0.433
76	FR1 n41	100M	BPSK	1	1	Back Top	5mm	Ant 3	DSI 3	Close	518598	2592.99	16.62	18.20	1.439			-0.01	0.959	1.380
	FR1 n41	100M	BPSK	1	1	Back Top	5mm	Ant 3	DSI 3	Headset	518598	2592.99	16.62	18.20	1.439			0.08	0.905	1.302
	FR1 n41	100M	BPSK	135	69	Back Top	5mm	Ant 3	DSI 3	Close	518598	2592.99	16.59	18.20	1.449			0.06	0.938	1.359
	FR1 n41	100	BPSK	270	0	Back Top	5mm	Ant 3	DSI 3	Close	518598	2592.99	16.55	18.20	1.462			0.16	0.930	1.360
	FR1 n41	100M	BPSK	1	1	Front	9mm	Ant 3	DSI 4	Close	518598	2592.99	22.56	23.50	1.242			-0.18	0.713	0.886
	FR1 n41	100M	BPSK	135	69	Front	9mm	Ant 3	DSI 4	Close	518598	2592.99	22.52	23.50	1.253			0.10	0.711	0.891
	FR1 n41	100	BPSK	270	0	Front	9mm	Ant 3	DSI 4	Close	518598	2592.99	22.46	23.50	1.271			0.07	0.692	0.880
	FR1 n41	100M	BPSK	1	1	Back Top	13mm	Ant 3	DSI 4	Close	518598	2592.99	22.56	23.50	1.242			-0.04	1.020	1.267
	FR1 n41	100M	BPSK	135	69	Back Top	13mm	Ant 3	DSI 4	Close	518598	2592.99	22.52	23.50	1.253			-0.12	0.983	1.232
	FR1 n41	100	BPSK	270	0	Back Top	13mm	Ant 3	DSI 4	Close	518598	2592.99	22.46	23.50	1.271			0.07	0.963	1.224
	FR1 n41 HPUE	100	BPSK	1	1	Back Top	5mm	Ant 3	DSI 3	Close	518598	2592.99	19.46	21.20	1.493	50.0	1.0	0.02	0.913	1.363
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 4	DSI 3	Close	518598	2592.99	20.10	21.60	1.413			-0.02	0.078	0.110
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 4	DSI 3	Close	518598	2592.99	20.08	21.60	1.419			0.16	0.097	0.138
	FR1 n41	100M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 3	Close	518598	2592.99	20.10	21.60	1.413			-0.17	0.810	1.145
	FR1 n41	100M	BPSK	135	69	Back Right	5mm	Ant 4	DSI 3	Close	518598	2592.99	20.08	21.60	1.419			0.16	0.704	0.999
	FR1 n41	100	BPSK	270	0	Back Right	5mm	Ant 4	DSI 3	Close	518598	2592.99	20.04	21.60	1.432			-0.05	0.796	1.140
	FR1 n41	100M	BPSK	1	1	Front	9mm	Ant 4	DSI 4	Close	518598	2592.99	22.18	23.00	1.208			0.05	0.086	0.104
	FR1 n41	100M	BPSK	135	69	Front	9mm	Ant 4	DSI 4	Close	518598	2592.99	22.15	23.00	1.216			-0.15	0.103	0.125
	FR1 n41	100M	BPSK	1	1	Back Right	13mm	Ant 4	DSI 4	Close	518598	2592.99	22.18	23.00	1.208			-0.09	0.314	0.379
	FR1 n41	100M	BPSK	135	69	Back Right	13mm	Ant 4	DSI 4	Close	518598	2592.99	22.15	23.00	1.216			-0.08	0.329	0.400
	FR1 n41 HPUE	100	BPSK	1	1	Back Right	5mm	Ant 4	DSI 3	Close	518598	2592.99	22.89	24.60	1.483	50.0	1.0	0.01	0.752	1.115
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 4	DSI 3	Close	641666	3624.99	20.15	21.80	1.462			0.10	0.054	0.079
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 4	DSI 3	Close	641666	3624.99	20.13	21.80	1.469			-0.15	0.064	0.094
	FR1 n48	40M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 3	Close	641666	3624.99	20.15	21.80	1.462			0.11	0.616	0.901
	FR1 n48	40	BPSK	1	1	Back Right	5mm	Ant 4	DSI 3	Close	638000	3570	20.11	21.80	1.476			-0.04	0.560	0.827
	FR1 n48	40	BPSK	1	1	Back Right	5mm	Ant 4	DSI 3	Close	645332	3679.98	20.09	21.80	1.483			0.16	0.624	0.925
	FR1 n48	40M	BPSK	50	28	Back Right	5mm	Ant 4	DSI 3	Close	641666	3624.99	20.13	21.80	1.469			0.01	0.719	1.056
	FR1 n48	40	BPSK	50	28	Back Right	5mm	Ant 4	DSI 3	Close	638000	3570	20.05	21.80	1.496			-0.08	0.732	1.095
	FR1 n48	40	BPSK	50	28	Back Right	5mm	Ant 4	DSI 3	Close	645332	3679.98	20.08	21.80	1.486			-0.19	0.745	1.107
	FR1 n48	40	BPSK	100	0	Back Right	5mm	Ant 4	DSI 3	Close	641666	3624.99	20.10	21.80	1.479			-0.15	0.676	1.000
	FR1 n48	40M	BPSK	1	1	Front	9mm	Ant 4	DSI 4	Close	641666	3624.99	23.21	24.00	1.199			-0.17	0.059	0.071
	FR1 n48	40M	BPSK	50	28	Front	9mm	Ant 4	DSI 4	Close	641666	3624.99	23.19	24.00	1.205			0.00	0.068	0.082
	FR1 n48	40M	BPSK	1	1	Back Right	13mm	Ant 4	DSI 4	Close	641666	3624.99	23.21	24.00	1.199			0.01	0.296	0.355
	FR1 n48	40M	BPSK	50	28	Back Right	13mm	Ant 4	DSI 4	Close	641666	3624.99	23.19	24.00	1.205			-0.04	0.317	0.382
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 6	DSI 3	Close	641666	3624.99	23.43	24.00	1.14			0.06	0.079	0.090
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 6	DSI 3	Close	641666	3624.99	23.40	24.00	1.148			0.14	0.084	0.096
	FR1 n48	40M	BPSK	1	1	Back Top	5mm	Ant 6	DSI 3	Close	641666	3624.99	23.43	24.00	1.14			0.08	0.765	0.872
	FR1 n48	40	BPSK	1	1	Back Top	5mm	Ant 6	DSI 3	Close	638000	3570	23.38	24.00	1.153			-0.04	0.765	0.882
	FR1 n48	40	BPSK	1	1	Back Top	5mm	Ant 6	DSI 3	Close	645332	3679.98	23.35	24.00	1.161			-0.12	0.743	0.863
	FR1 n48	40M	BPSK	50	28	Back Top	5mm	Ant 6	DSI 3	Close	641666	3624.99	23.40	24.00	1.148			-0.09	0.770	0.884
	FR1 n48	40	BPSK	50	28	Back Top	5mm	Ant 6	DSI 3	Close	638000	3570	23.36	24.00	1.159			-0.15	0.596	0.691
	FR1 n48	40	BPSK	50	28	Back Top	5mm	Ant 6	DSI 3	Close	645332	3679.98	23.33	24.00	1.167			-0.03	0.732	0.854
	FR1 n48	40	BPSK	100	0	Back Top	5mm	Ant 6	DSI 3	Close	641666	3624.99	23.39	24.00	1.151			-0.02	0.645	0.742
	FR1 n48	40M	BPSK	1	1	Front	9mm	Ant 6	DSI 4	Close	641666	3624.99	23.43	24.00	1.14			-0.10	0.088	0.100
	FR1 n48	40M	BPSK	50	28	Front	9mm	Ant 6	DSI 4	Close	641666	3624.99	23.40	24.00	1.148			-0.04	0.091	0.104
	FR1 n48	40M	BPSK	1	1	Back Top	13mm	Ant 6	DSI 4	Close	641666	3624.99	23.43	24.00	1.14			0.06	0.208	0.237
	FR1 n48	40M	BPSK	50	28	Back Top	13mm	Ant 6	DSI 4	Close	641666	3624.99	23.40	24.00	1.148			-0.01	0.269	0.309
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 8	DSI 3	Close	641666	3624.99	17.06	18.60	1.426			-0.08	0.146	0.208
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 8	DSI 3	Close	641666	3624.99	17.02	18.60	1.439			0.04	0.137	0.197
	FR1 n48	40M	BPSK	1	1	Back Top	5mm	Ant 8	DSI 3	Close	641666	3624.99	17.06	18.60	1.426			0.19	0.736	1.050
	FR1 n48	40	BPSK	1	1	Back Top	5mm	Ant 8	DSI 3	Close	638000	3570	17.02	18.60	1.439			0.16	0.760	1.094
	FR1 n48	40	BPSK	1	1	Back Top	5mm	Ant 8	DSI 3	Close	645332	3679.98	17.00	18.60	1.445			-0.05	0.785	1.134
	FR1 n48	40M	BPSK	50	28	Back Top	5mm	Ant 8	DSI 3	Close	641666	3624.99	17.02	18.60	1.439			0.18	0.704	1.013
77	FR1 n48	40	BPSK	50	28	Back Top	5mm	Ant 8	DSI 3	Close	638000	3570	16.96	18.60	1.459			-0.11	0.901	1.315
	FR1 n48	40M	BPSK	50	28	Back Top	5mm	Ant 8	DSI 3	Headset	638000	3570	16.96	18.60	1.459			0.10	0.872	1.272
	FR1 n48	40	BPSK	50	28	Back Top	5mm	Ant 8	DSI 3	Close	645332	3679.98	16.99	18.60	1.449			-0.09	0.833	1.207
	FR1 n48	40	BPSK	100	0	Back Top	5mm	Ant 8	DSI 3	Close	641666	3624.99	16.92	18.60	1.472			-0.07		



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	FR1 n48	40M	BPSK	50	28	Front	9mm	Ant 8	DSI 4	Close	641666	3624.99	23.11	24.00	1.227			-0.15	0.413	0.507
	FR1 n48	40M	BPSK	1	1	Back Top	13mm	Ant 8	DSI 4	Close	641666	3624.99	23.15	24.00	1.216			0.02	0.992	1.206
	FR1 n48	40	BPSK	1	1	Back Top	13mm	Ant 8	DSI 4	Close	638000	3570	23.10	24.00	1.23			0.00	0.872	1.073
	FR1 n48	40	BPSK	1	1	Back Top	13mm	Ant 8	DSI 4	Close	645332	3679.98	23.13	24.00	1.222			-0.16	0.860	1.051
	FR1 n48	40M	BPSK	50	28	Back Top	13mm	Ant 8	DSI 4	Close	641666	3624.99	23.11	24.00	1.227			0.16	0.957	1.174
	FR1 n48	40	BPSK	50	28	Back Top	13mm	Ant 8	DSI 4	Close	638000	3570	23.08	24.00	1.236			0.07	0.876	1.083
	FR1 n48	40	BPSK	50	28	Back Top	13mm	Ant 8	DSI 4	Close	645332	3679.98	23.06	24.00	1.242			0.03	0.903	1.122
	FR1 n48	40	BPSK	100	0	Back Top	13mm	Ant 8	DSI 4	Close	641666	3624.99	23.04	24.00	1.247			0.01	0.990	1.235
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 4	DSI 3	Close	633332	3499.98	19.15	19.90	1.189			-0.01	0.039	0.046
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 4	DSI 3	Close	633332	3499.98	19.12	19.90	1.197			0.12	0.028	0.034
	FR1 n77	100M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 3	Close	633332	3499.98	19.15	19.90	1.189			-0.07	0.841	1.000
	FR1 n77	100M	BPSK	135	69	Back Right	5mm	Ant 4	DSI 3	Close	633332	3499.98	19.12	19.90	1.197			0.17	0.819	0.980
	FR1 n77	100	BPSK	270	0	Back Right	5mm	Ant 4	DSI 3	Close	633332	3499.98	19.00	19.90	1.23			-0.04	0.774	0.952
	FR1 n77	100M	BPSK	1	1	Front	9mm	Ant 4	DSI 4	Close	633332	3499.98	23.23	24.00	1.194			-0.17	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Front	9mm	Ant 4	DSI 4	Close	633332	3499.98	23.20	24.00	1.202			0.11	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Back Right	13mm	Ant 4	DSI 4	Close	633332	3499.98	23.23	24.00	1.194			0.12	0.449	0.536
	FR1 n77	100M	BPSK	135	69	Back Right	13mm	Ant 4	DSI 4	Close	633332	3499.98	23.20	24.00	1.202			-0.11	0.374	0.450
	FR1 n77 HPUE	100	BPSK	1	1	Back Right	5mm	Ant 4	DSI 3	Close	633332	3499.98	22.14	22.90	1.191	50.0	1.0	0.03	0.835	0.994
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 6	DSI 3	Close	633332	3499.98	21.25	22.40	1.303			0.03	0.136	0.177
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 6	DSI 3	Close	633332	3499.98	21.21	22.40	1.315			-0.16	0.156	0.205
	FR1 n77	100M	BPSK	1	1	Back Top	5mm	Ant 6	DSI 3	Close	633332	3499.98	21.25	22.40	1.303			-0.06	0.823	1.072
	FR1 n77	100M	BPSK	135	69	Back Top	5mm	Ant 6	DSI 3	Close	633332	3499.98	21.21	22.40	1.315			-0.18	0.829	1.090
	FR1 n77	100	BPSK	270	0	Back Top	5mm	Ant 6	DSI 3	Close	633332	3499.98	21.15	22.40	1.334			-0.03	0.919	1.226
	FR1 n77	100M	BPSK	270	0	Back Top	5mm	Ant 6	DSI 3	Headset	633332	3499.98	21.15	22.40	1.334			0.05	0.877	1.170
	FR1 n77	100M	BPSK	1	1	Front	9mm	Ant 6	DSI 4	Close	633332	3499.98	23.34	24.00	1.164			-0.05	0.073	0.085
	FR1 n77	100M	BPSK	135	69	Front	9mm	Ant 6	DSI 4	Close	633332	3499.98	23.24	24.00	1.191			0.10	0.078	0.093
	FR1 n77	100M	BPSK	1	1	Back Top	13mm	Ant 6	DSI 4	Close	633332	3499.98	23.34	24.00	1.164			-0.12	0.251	0.292
	FR1 n77	100M	BPSK	135	69	Back Top	13mm	Ant 6	DSI 4	Close	633332	3499.98	23.24	24.00	1.191			-0.15	0.275	0.328
	FR1 n77 HPUE	100	BPSK	270	0	Back Top	5mm	Ant 6	DSI 3	Close	633332	3499.98	24.17	25.40	1.327	50.0	1.0	0.05	0.915	1.214
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 8	DSI 3	Close	633332	3499.98	17.19	18.90	1.483			-0.12	0.162	0.240
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 8	DSI 3	Close	633332	3499.98	17.17	18.90	1.489			0.05	0.183	0.272
78	FR1 n77	100M	BPSK	1	1	Back Top	5mm	Ant 8	DSI 3	Close	633332	3499.98	17.19	18.90	1.483			0.06	0.850	1.261
	FR1 n77	100M	BPSK	1	1	Back Top	5mm	Ant 8	DSI 3	Headset	633332	3499.98	17.19	18.90	1.483			-0.08	0.823	1.221
	FR1 n77	100M	BPSK	135	69	Back Top	5mm	Ant 8	DSI 3	Close	633332	3499.98	17.17	18.90	1.489			0.14	0.822	1.224
	FR1 n77	100	BPSK	270	0	Back Top	5mm	Ant 8	DSI 3	Close	633332	3499.98	17.16	18.90	1.493			-0.17	0.807	1.205
	FR1 n77	100M	BPSK	1	1	Front	9mm	Ant 8	DSI 4	Close	633332	3499.98	23.48	24.00	1.127			-0.17	0.321	0.362
	FR1 n77	100M	BPSK	135	69	Front	9mm	Ant 8	DSI 4	Close	633332	3499.98	23.40	24.00	1.148			0.02	0.368	0.422
	FR1 n77	100M	BPSK	1	1	Back Top	13mm	Ant 8	DSI 4	Close	633332	3499.98	23.48	24.00	1.127			0.02	0.775	0.873
	FR1 n77	100M	BPSK	135	69	Back Top	13mm	Ant 8	DSI 4	Close	633332	3499.98	23.40	24.00	1.148			-0.07	0.845	0.970
	FR1 n77	100	BPSK	270	0	Back Top	13mm	Ant 8	DSI 4	Close	633332	3499.98	23.35	24.00	1.161			0.01	0.713	0.828
	FR1 n77 HPUE	100	BPSK	1	1	Back Top	5mm	Ant 8	DSI 3	Close	633332	3499.98	20.18	21.90	1.486	50.0	1.0	0.19	0.845	1.256
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 4	DSI 3	Close	656000	3840	19.48	19.90	1.102			-0.08	0.041	0.045
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 4	DSI 3	Close	656000	3840	19.42	19.90	1.117			-0.13	0.037	0.041
	FR1 n77	100M	BPSK	1	1	Back Right	5mm	Ant 4	DSI 3	Close	656000	3840	19.48	19.90	1.102			-0.02	0.980	1.080
	FR1 n77	100M	BPSK	135	69	Back Right	5mm	Ant 4	DSI 3	Close	656000	3840	19.42	19.90	1.117			0.11	0.915	1.022
	FR1 n77	100	BPSK	270	0	Back Right	5mm	Ant 4	DSI 3	Close	656000	3840	19.35	19.90	1.135			-0.04	0.893	1.014
	FR1 n77	100M	BPSK	1	1	Front	9mm	Ant 4	DSI 4	Close	656000	3840	23.52	24.00	1.117			-0.04	0.108	0.121
	FR1 n77	100M	BPSK	135	69	Front	9mm	Ant 4	DSI 4	Close	656000	3840	23.48	24.00	1.127			-0.02	0.094	0.106
	FR1 n77	100M	BPSK	1	1	Back Right	13mm	Ant 4	DSI 4	Close	656000	3840	23.52	24.00	1.117			-0.16	0.418	0.467
	FR1 n77	100M	BPSK	135	69	Back Right	13mm	Ant 4	DSI 4	Close	656000	3840	23.48	24.00	1.127			-0.06	0.344	0.388
	FR1 n77 HPUE	100	BPSK	1	1	Back Right	5mm	Ant 4	DSI 3	Close	656000	3840	22.34	22.90	1.138	50.0	1.0	0.03	0.938	1.067
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 6	DSI 3	Close	656000	3840	21.30	22.40	1.288			-0.08	0.301	0.388
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 6	DSI 3	Close	656000	3840	21.28	22.40	1.294			-0.17	0.264	0.342
	FR1 n77	100M	BPSK	1	1	Back Top	5mm	Ant 6	DSI 3	Close	656000	3840	21.30	22.40	1.288			-0.05	0.541	0.697
	FR1 n77	100M	BPSK	135	69	Back Top	5mm	Ant 6	DSI 3	Close	656000	3840	21.28	22.40	1.294			0.17	0.533	0.690
	FR1 n77	100M	BPSK	1	1	Front	9mm	Ant 6	DSI 4	Close	656000	3840	23.40	24.00	1.148			0.00	0.099	0.114
	FR1 n77	100M	BPSK	135	69	Front	9mm	Ant 6	DSI 4	Close	656000	3840	23.34	24.00	1.164			0.04	0.075	0.087
	FR1 n77	100M	BPSK	1	1	Back Top	13mm	Ant 6	DSI 4	Close	656000	3840	23.40	24.00	1.148			0.07	0.173	0.199
	FR1 n77	100M	BPSK	135	69	Back Top	13mm	Ant 6	DSI 4	Close	656000	3840	23.34	24.00	1.164			0.03	0.165	0.192
	FR1 n77 HPUE	100	BPSK	1	1	Back Top	5mm	Ant 6	DSI 3	Close	656000	3840	24.32	25.40	1.282	50.0	1.0	0.03	0.538	0.690
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 8	DSI 3	Close	656000	3840	17.25	18.90	1.462			0.11	0.299	0.437
	FR1 n77	100M	BPSK	135	0	Front	5mm	Ant 8	DSI 3	Close	656000	3840	17.19	18.90	1.483			0.10	0.291	0.432
	FR1 n77	100M	BPSK	1	1	Back Top	5mm	Ant 8	DSI 3	Close	656000	3840	17.25	18.90	1.462			-0.01	0.682	0.997
	FR1 n77	100M	BPSK	135	0	Back Top	5mm	Ant 8	DSI 3	Close	656000	3840	17.19	18.90	1.483			-0.18	0.661	0.980
	FR1 n77	100	BPSK	270	0	Back Top	5mm	Ant 8	DSI 3	Close	656000	3840	17.12	18.90	1.507			0.07	0.565	0.851
	FR1 n77	100M	BPSK	1	1	Front	9mm	Ant 8	DSI 4	Close	656000	3840	23.49	24.00	1.125			-0.13	0.239	0.269
	FR1 n77	100M	BPSK	135	69	Front	9mm	Ant 8	DSI 4	Close	656000	3840	23.34	24.00	1.164			0.13	0.222	0.258
	FR1 n77	100M	BPSK	1	1	Back Top	13mm	Ant 8	DSI 4	Close	656000	3840	23.49	24.00	1.125			-0.02	0.809	0.910
	FR1 n77	100M	BPSK	135	69	Back Top	13mm	Ant 8	DSI 4	Close	656000	3840	23.34	24.00	1.164			-0.13	0.744	0.866
	FR1 n77	100	BPSK	270	0	Back Top	13mm	Ant 8	DSI 4	Close	656000	3840	23.30	24.00	1.175			-0.10	0.695	0.817



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	FR1 n77 HPUE	100	BPSK	1	1	Back Top	5mm	Ant 8	DSI 3	Close	656000	3840	20.28	21.90	1.452	50.0	1.0	0.03	0.663	0.963
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Ant1

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Configuration	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	133297	680.5	close	19.63	20.80	1.309	0.02	0.044	0.058
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3	133297	680.5	close	19.61	20.80	1.315	-0.13	0.049	0.064
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	133297	680.5	close	19.63	20.80	1.309	0.17	0.131	0.171
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	133297	680.5	close	19.61	20.80	1.315	0.06	0.134	0.176
	LTE Band 71	20M	QPSK	1	0	-	Back 1	5mm	Ant 1	DSI 3	133297	680.5	close	19.63	20.80	1.309	0	0.073	0.096
	LTE Band 71	20M	QPSK	50	0	-	Back 1	5mm	Ant 1	DSI 3	133297	680.5	close	19.61	20.80	1.315	-0.04	0.081	0.107
79	LTE Band 71	20M	QPSK	1	0	-	Back Right	5mm	Ant 1	DSI 3	133297	680.5	close	19.63	20.80	1.309	-0.05	0.178	0.233
	LTE Band 71	20M	QPSK	50	0	-	Back Right	5mm	Ant 1	DSI 3	133297	680.5	close	19.61	20.80	1.315	-0.15	0.172	0.226
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	23095	707.5	close	20.15	21.70	1.429	-0.02	0.072	0.103
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI 3	23095	707.5	close	20.13	21.70	1.435	0.1	0.074	0.106
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	23095	707.5	close	20.15	21.70	1.429	0.04	0.179	0.256
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI 3	23095	707.5	close	20.13	21.70	1.435	0.13	0.184	0.264
	LTE Band 12	10M	QPSK	1	0	-	Back 1	5mm	Ant 1	DSI 3	23095	707.5	close	20.15	21.70	1.429	-0.18	0.125	0.179
	LTE Band 12	10M	QPSK	25	0	-	Back 1	5mm	Ant 1	DSI 3	23095	707.5	close	20.13	21.70	1.435	-0.11	0.124	0.178
80	LTE Band 12	10M	QPSK	1	0	-	Back Right	5mm	Ant 1	DSI 3	23095	707.5	close	20.15	21.70	1.429	0.16	0.240	0.343
	LTE Band 12	10M	QPSK	25	0	-	Back Right	5mm	Ant 1	DSI 3	23095	707.5	close	20.13	21.70	1.435	-0.16	0.236	0.339
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	23230	782	close	20.18	21.40	1.324	-0.06	0.083	0.110
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI 3	23230	782	close	20.13	21.40	1.340	-0.14	0.082	0.110
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	23230	782	close	20.18	21.40	1.324	-0.19	0.183	0.242
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI 3	23230	782	close	20.13	21.40	1.340	0.01	0.191	0.256
	LTE Band 13	10M	QPSK	1	0	-	Back 1	5mm	Ant 1	DSI 3	23230	782	close	20.18	21.40	1.324	0.06	0.121	0.160
	LTE Band 13	10M	QPSK	25	0	-	Back 1	5mm	Ant 1	DSI 3	23230	782	close	20.13	21.40	1.340	0.02	0.134	0.180
81	LTE Band 13	10M	QPSK	1	0	-	Back Right	5mm	Ant 1	DSI 3	23230	782	close	20.18	21.40	1.324	0.15	0.258	0.342
	LTE Band 13	10M	QPSK	25	0	-	Back Right	5mm	Ant 1	DSI 3	23230	782	close	20.13	21.40	1.340	0.12	0.252	0.338
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	23330	793	close	20.63	21.60	1.250	-0.12	0.082	0.103
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI 3	23330	793	close	20.61	21.60	1.256	0.07	0.083	0.104
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	23330	793	close	20.63	21.60	1.250	-0.02	0.191	0.239
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI 3	23330	793	close	20.61	21.60	1.256	-0.05	0.204	0.256
	LTE Band 14	10M	QPSK	1	0	-	Back 1	5mm	Ant 1	DSI 3	23330	793	close	20.63	21.60	1.250	-0.13	0.111	0.139
	LTE Band 14	10M	QPSK	25	0	-	Back 1	5mm	Ant 1	DSI 3	23330	793	close	20.61	21.60	1.256	0.08	0.129	0.162
82	LTE Band 14	10M	QPSK	1	0	-	Back Right	5mm	Ant 1	DSI 3	23330	793	close	20.63	21.60	1.250	0.12	0.265	0.331
	LTE Band 14	10M	QPSK	25	0	-	Back Right	5mm	Ant 1	DSI 3	23330	793	close	20.61	21.60	1.256	0.16	0.249	0.313
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	136100	680.5	close	19.83	21.00	1.309	-0.16	0.064	0.084
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	136100	680.5	close	19.82	21.00	1.312	0.1	0.067	0.088
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	136100	680.5	close	19.83	21.00	1.309	-0.04	0.173	0.226
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	136100	680.5	close	19.82	21.00	1.312	-0.01	0.191	0.251
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 3	136100	680.5	close	19.83	21.00	1.309	0	0.106	0.139
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 3	136100	680.5	close	19.82	21.00	1.312	-0.11	0.125	0.164
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 3	136100	680.5	close	19.83	21.00	1.309	-0.06	0.203	0.266
83	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 3	136100	680.5	close	19.82	21.00	1.312	-0.15	0.256	0.336
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	141500	707.5	close	19.35	20.60	1.334	0.03	0.063	0.084



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	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	141500	707.5	close	19.34	20.60	1.337	-0.13	0.068	0.091
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	141500	707.5	close	19.35	20.60	1.334	0.16	0.182	0.243
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	141500	707.5	close	19.34	20.60	1.337	-0.15	0.192	0.257
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 3	141500	707.5	close	19.35	20.60	1.334	-0.02	0.112	0.149
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 3	141500	707.5	close	19.34	20.60	1.337	-0.09	0.122	0.163
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 3	141500	707.5	close	19.35	20.60	1.334	0.14	0.221	0.295
84	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 3	141500	707.5	close	19.34	20.60	1.337	-0.1	0.250	0.334
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	156400	782	close	20.45	21.80	1.365	-0.09	0.080	0.109
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	156400	782	close	20.43	21.80	1.371	0.07	0.078	0.107
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	156400	782	close	20.45	21.80	1.365	-0.09	0.280	0.382
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	156400	782	close	20.43	21.80	1.371	-0.16	0.278	0.381
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 3	156400	782	close	20.45	21.80	1.365	-0.18	0.102	0.139
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 3	156400	782	close	20.43	21.80	1.371	-0.07	0.122	0.167
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 3	156400	782	close	20.45	21.80	1.365	0.11	0.253	0.345
85	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 3	156400	782	close	20.43	21.80	1.371	-0.04	0.281	0.385
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	158600	793	close	20.35	21.40	1.274	-0.1	0.086	0.110
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	158600	793	close	20.33	21.40	1.279	-0.01	0.086	0.110
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	158600	793	close	20.35	21.40	1.274	-0.09	0.202	0.257
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	158600	793	close	20.33	21.40	1.279	-0.06	0.196	0.251
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 3	158600	793	close	20.35	21.40	1.274	-0.17	0.128	0.163
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 3	158600	793	close	20.33	21.40	1.279	-0.01	0.106	0.136
86	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 3	158600	793	close	20.35	21.40	1.274	-0.04	0.277	0.353
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 3	158600	793	close	20.33	21.40	1.279	-0.11	0.264	0.338
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	DSI 3	189	836.4	close	24.21	25.60	1.377	0.14	0.045	0.062
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	DSI 3	189	836.4	close	24.21	25.60	1.377	0.03	0.084	0.116
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back 1	5mm	Ant 1	DSI 3	189	836.4	close	24.21	25.60	1.377	0.1	0.077	0.106
87	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back Right	5mm	Ant 1	DSI 3	189	836.4	close	24.21	25.60	1.377	-0.1	0.159	0.219
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3	4182	836.4	close	20.21	21.50	1.346	-0.06	0.068	0.092
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4182	836.4	close	20.21	21.50	1.346	0.02	0.157	0.211
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back 1	5mm	Ant 1	DSI 3	4182	836.4	close	20.21	21.50	1.346	-0.16	0.094	0.127
88	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back Right	5mm	Ant 1	DSI 3	4182	836.4	close	20.21	21.50	1.346	-0.13	0.243	0.327
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	26865	831.5	close	20.03	21.40	1.371	-0.03	0.072	0.099
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	DSI 3	26865	831.5	close	19.95	21.40	1.396	0.17	0.078	0.109
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	26865	831.5	close	20.03	21.40	1.371	-0.15	0.159	0.218
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	DSI 3	26865	831.5	close	19.95	21.40	1.396	0.16	0.168	0.235
	LTE Band 26	15M	QPSK	1	0	-	Back 1	5mm	Ant 1	DSI 3	26865	831.5	close	20.03	21.40	1.371	0.05	0.099	0.136
	LTE Band 26	15M	QPSK	36	0	-	Back 1	5mm	Ant 1	DSI 3	26865	831.5	close	19.95	21.40	1.396	-0.06	0.106	0.148
89	LTE Band 26	15M	QPSK	1	0	-	Back Right	5mm	Ant 1	DSI 3	26865	831.5	close	20.03	21.40	1.371	-0.13	0.238	0.326
	LTE Band 26	15M	QPSK	36	0	-	Back Right	5mm	Ant 1	DSI 3	26865	831.5	close	19.95	21.40	1.396	-0.13	0.211	0.295
	LTE Band 5	10M	QPSK	1	49	-	Back Right	5mm	Ant 1	DSI 3	20476+205758	831.5+841.5	close	19.85	21.40	1.429	0.02	0.203	0.290
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	166300	831.5	close	19.47	20.80	1.358	-0.11	0.084	0.114
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	166300	831.5	close	19.44	20.80	1.368	0.19	0.082	0.112
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	166300	831.5	close	19.47	20.80	1.358	-0.14	0.193	0.262
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	166300	831.5	close	19.44	20.80	1.368	-0.18	0.179	0.245
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 3	166300	831.5	close	19.47	20.80	1.358	-0.06	0.117	0.159
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Back 1	5mm	Ant 1	DSI 3	166300	831.5	close	19.44	20.80	1.368	0.02	0.118	0.161
90	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 3	166300	831.5	close	19.47	20.80	1.358	-0.17	0.215	0.292
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Back Right	5mm	Ant 1	DSI 3	166300	831.5	close	19.44	20.80	1.368	0.16	0.207	0.283

MIMO SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power	Tune-Up Limit	Tune-Up Scaling	Duty Cycle	Duty Cycle	Power Drift	Measured 1g SAR	Reported 1g SAR
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													(dBm)	(dBm)	Factor	%	Scaling Factor	(dB)	(W/kg)	(W/kg)
	FR1 n48 HPUE	40M	BPSK	1	1		Front	5mm	Ant 8+4	DSI 3	Close	6416663624.99	19.12	20.6	1.406	100	1.000	0.08	0.110	0.155
	FR1 n48 HPUE	40M	BPSK	50	28		Front	5mm	Ant 8+4	DSI 3	Close	6416663624.99	19.01	20.6	1.442	100	1.000	0.01	0.109	0.157
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	5mm	Ant 8+4	DSI 3	Close	6416663624.99	19.12	20.6	1.406	100	1.000	0.03	0.802	1.128
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	5mm	Ant 8+4	DSI 3	Close	638000 3570	19.00	20.6	1.445	100	1.000	-0.08	0.663	0.958
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	5mm	Ant 8+4	DSI 3	Close	6453323679.98	19.02	20.6	1.439	100	1.000	-0.08	0.716	1.03
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	5mm	Ant 8+4	DSI 3	Close	6416663624.99	19.01	20.6	1.442	100	1.000	0.1	0.769	1.109
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	5mm	Ant 8+4	DSI 3	Close	638000 3570	18.94	20.6	1.466	100	1.000	-0.18	0.737	1.08
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	5mm	Ant 8+4	DSI 3	Close	6453323679.98	19.01	20.6	1.442	100	1.000	0.1	0.774	1.116
	FR1 n48 HPUE	40M	BPSK	100	0		Back Top	5mm	Ant 8+4	DSI 3	Close	6416663624.99	18.92	20.6	1.472	100	1.000	0.12	0.653	0.961
	FR1 n48 HPUE	40M	BPSK	1	1		Front	9mm	Ant 8+4	DSI 4	Close	6416663624.99	26.19	27	1.205	100	1.000	0.08	0.304	0.366
	FR1 n48 HPUE	40M	BPSK	50	28		Front	9mm	Ant 8+4	DSI 4	Close	6416663624.99	26.16	27	1.213	100	1.000	-0.17	0.279	0.338
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	13mm	Ant 8+4	DSI 4	Close	6416663624.99	26.19	27	1.205	100	1.000	-0.03	0.933	1.124
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	13mm	Ant 8+4	DSI 4	Close	638000 3570	26.15	27	1.216	100	1.000	0.14	0.921	1.12
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	13mm	Ant 8+4	DSI 4	Close	6453323679.98	26.18	27	1.209	100	1.000	0.11	0.905	1.094
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	13mm	Ant 8+4	DSI 4	Close	6416663624.99	26.16	27	1.213	100	1.000	-0.05	0.902	1.094
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	13mm	Ant 8+4	DSI 4	Close	638000 3570	26.14	27	1.219	100	1.000	0.18	0.851	1.037
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	13mm	Ant 8+4	DSI 4	Close	6453323679.98	26.12	27	1.224	100	1.000	0.14	0.765	0.936
	FR1 n48 HPUE	40M	BPSK	100	0		Back Top	13mm	Ant 8+4	DSI 4	Close	6416663624.99	26.12	27	1.226	100	1.000	-0.17	0.731	0.896
	FR1 n48 HPUE	40M	BPSK	1	1		Front	5mm	Ant 8+6	DSI 3	Close	6416663624.99	18.51	20.1	1.442	100	1.000	-0.05	0.105	0.151
	FR1 n48 HPUE	40M	BPSK	50	28		Front	5mm	Ant 8+6	DSI 3	Close	6416663624.99	18.50	20.1	1.445	100	1.000	0.01	0.094	0.136
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	5mm	Ant 8+6	DSI 3	Close	6416663624.99	18.51	20.1	1.442	100	1.000	0.1	0.806	1.162
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	5mm	Ant 8+6	DSI 3	Close	638000 3570	18.49	20.1	1.449	100	1.000	-0.17	0.813	1.178
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	5mm	Ant 8+6	DSI 3	Close	6453323679.98	18.51	20.1	1.442	100	1.000	0.04	0.757	1.092
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	5mm	Ant 8+6	DSI 3	Close	6416663624.99	18.50	20.1	1.445	100	1.000	-0.01	0.715	1.033
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	5mm	Ant 8+6	DSI 3	Close	638000 3570	18.46	20.1	1.459	100	1.000	-0.08	0.568	0.829
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	5mm	Ant 8+6	DSI 3	Close	6453323679.98	18.50	20.1	1.445	100	1.000	0.05	0.645	0.932
	FR1 n48 HPUE	40M	BPSK	100	0		Back Top	5mm	Ant 8+6	DSI 3	Close	6416663624.99	18.39	20.1	1.482	100	1.000	0.06	0.799	1.184
	FR1 n48 HPUE	40M	BPSK	1	1		Front	9mm	Ant 8+6	DSI 4	Close	6416663624.99	26.30	27	1.174	100	1.000	-0.09	0.372	0.437
	FR1 n48 HPUE	40M	BPSK	50	28		Front	9mm	Ant 8+6	DSI 4	Close	6416663624.99	26.27	27	1.184	100	1.000	-0.08	0.287	0.34
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	13mm	Ant 8+6	DSI 4	Close	6416663624.99	26.30	27	1.174	100	1.000	0.13	0.842	0.989
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	13mm	Ant 8+6	DSI 4	Close	638000 3570	26.25	27	1.189	100	1.000	0.12	0.802	0.954
	FR1 n48 HPUE	40M	BPSK	1	1		Back Top	13mm	Ant 8+6	DSI 4	Close	6453323679.98	26.25	27	1.188	100	1.000	0.03	0.779	0.925
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	13mm	Ant 8+6	DSI 4	Close	6416663624.99	26.27	27	1.184	100	1.000	0.18	0.723	0.856
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	13mm	Ant 8+6	DSI 4	Close	638000 3570	26.23	27	1.194	100	1.000	0.16	0.703	0.839
	FR1 n48 HPUE	40M	BPSK	50	28		Back Top	13mm	Ant 8+6	DSI 4	Close	6453323679.98	26.21	27	1.200	100	1.000	-0.1	0.671	0.805
	FR1 n48 HPUE	40M	BPSK	100	0		Back Top	13mm	Ant 8+6	DSI 4	Close	6416663624.99	26.23	27	1.194	100	1.000	0.07	0.666	0.795
	FR1 n77 HPUE	100M	BPSK	1	1		Front	5mm	Ant 8+4	DSI 3	Close	6333323499.98	20.20	21.9	1.479	50	1.000	-0.1	0.124	0.183
	FR1 n77 HPUE	100M	BPSK	135	69		Front	5mm	Ant 8+4	DSI 3	Close	6333323499.98	20.18	21.9	1.486	50	1.000	0.01	0.120	0.178
	FR1 n77 HPUE	100M	BPSK	1	1		Back Top	5mm	Ant 8+4	DSI 3	Close	6333323499.98	20.20	21.9	1.479	50	1.000	-0.15	0.535	0.791
	FR1 n77 HPUE	100M	BPSK	135	69		Back Top	5mm	Ant 8+4	DSI 3	Close	6333323499.98	20.18	21.9	1.486	50	1.000	0.19	0.524	0.779
	FR1 n77_PC1.5	100M	BPSK	1	1		Back Top	5mm	Ant 8+4	DSI 3	Close	6333323499.98	23.19	24.9	1.482	50	1.000	0.07	0.533	0.79
	FR1 n77_HPUE	100M	BPSK	1	1		Front	9mm	Ant 8+4	DSI 4	Close	6333323499.98	26.37	27	1.157	50	1.000	-0.18	0.174	0.201
	FR1 n77_HPUE	100M	BPSK	135	69		Front	9mm	Ant 8+4	DSI 4	Close	6333323499.98	26.31	27	1.172	50	1.000	0.03	0.156	0.183
	FR1 n77_HPUE	100M	BPSK	1	1		Back Top	13mm	Ant 8+4	DSI 4	Close	6333323499.98	26.37	27	1.157	50	1.000	-0.15	0.308	0.356
	FR1 n77_HPUE	100M	BPSK	135	69		Back Top	13mm	Ant 8+4	DSI 4	Close	6333323499.98	26.31	27	1.172	50	1.000	-0.15	0.236	0.277
	FR1 n77_PC1.5	100M	BPSK	1	1		Back Top	13mm	Ant 8+4	DSI 4	Close	6333323499.98	29.34	30	1.164	50	1.000	0.11	0.330	0.384
	FR1 n77_HPUE	100M	BPSK	1	1		Front	5mm	Ant 8+6	DSI 3	Close	6333323499.98	20.20	21.9	1.479	50	1.000	-0.17	0.117	0.173
	FR1 n77_HPUE	100M	BPSK	135	69		Front	5mm	Ant 8+6	DSI 3	Close	6333323499.98	20.18	21.9	1.486	50	1.000	-0.08	0.099	0.147
	FR1 n77_HPUE	100M	BPSK	1	1		Back Top	5mm	Ant 8+6	DSI 3	Close	6333323499.98	20.20	21.9	1.479	50	1.000	-0.04	0.477	0.705
	FR1 n77_HPUE	100M	BPSK	135	69		Back Top	5mm	Ant 8+6	DSI 3	Close	6333323499.98	20.18	21.9	1.486	50	1.000	-0.08	0.458	0.681
	FR1 n77_PC1.5	100M	BPSK	1	1		Back Top	5mm	Ant 8+6	DSI 3	Close	6333323499.98	23.19	24.9	1.482	50	1.000	0.17	0.466	0.691
	FR1 n77_HPUE	100M	BPSK	1	1		Front	9mm	Ant 8+6	DSI 4	Close	6333323499.98	26.42	27	1.143	50	1.000	0.18	0.160	0.183
	FR1 n77_HPUE	100M	BPSK	135	69		Front	9mm	Ant 8+6	DSI 4	Close	6333323499.98	26.33	27	1.167	50	1.000	-0.04	0.137	0.16
	FR1 n77_HPUE	100M	BPSK	1	1		Back Top	13mm	Ant 8+6	DSI 4	Close	6333323499.98	26.42	27	1.143	50	1.000	-0.08	0.341	0.39
	FR1 n77_HPUE	100M	BPSK	135	69		Back Top	13mm	Ant 8+6	DSI 4	Close	6333323499.98	26.33	27	1.167	50	1.000	-0.13	0.287	0.335



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FR1 n77_PC1.5	100M	BPSK	1	1		Back Top	13mm	Ant 8+6	DSI 4	Close	633332	3499.98	29.41	30	1.147	50	1.000	-0.13	0.359	0.412
FR1 n77_HPUE	100M	BPSK	1	1		Front	5mm	Ant 8+4	DSI 3	Close	656000	3840	20.26	21.9	1.459	50	1.000	-0.03	0.051	0.074
FR1 n77_HPUE	100M	BPSK	135	69		Front	5mm	Ant 8+4	DSI 3	Close	656000	3840	20.19	21.9	1.482	50	1.000	-0.03	0.042	0.062
FR1 n77_HPUE	100M	BPSK	1	1		Back Top	5mm	Ant 8+4	DSI 3	Close	656000	3840	20.26	21.9	1.459	50	1.000	0.08	0.424	0.619
FR1 n77_HPUE	100M	BPSK	135	69		Back Top	5mm	Ant 8+4	DSI 3	Close	656000	3840	20.19	21.9	1.482	50	1.000	-0.07	0.343	0.508
FR1 n77_PC1.5	100M	BPSK	1	1		Back Top	5mm	Ant 8+4	DSI 3	Close	656000	3840	23.29	24.9	1.449	50	1.000	0.05	0.378	0.548
FR1 n77_HPUE	100M	BPSK	1	1		Front	9mm	Ant 8+4	DSI 4	Close	656000	3840	26.52	27	1.118	50	1.000	-0.11	0.074	0.083
FR1 n77_HPUE	100M	BPSK	135	69		Front	9mm	Ant 8+4	DSI 4	Close	656000	3840	26.42	27	1.143	50	1.000	-0.12	0.064	0.073
FR1 n77_HPUE	100M	BPSK	1	1		Back Top	13mm	Ant 8+4	DSI 4	Close	656000	3840	26.52	27	1.118	50	1.000	0.03	0.259	0.29
FR1 n77_HPUE	100M	BPSK	135	69		Back Top	13mm	Ant 8+4	DSI 4	Close	656000	3840	26.42	27	1.143	50	1.000	-0.16	0.212	0.242
FR1 n77_PC1.5	100M	BPSK	1	1		Back Top	13mm	Ant 8+4	DSI 4	Close	656000	3840	29.50	30	1.123	50	1.000	-0.02	0.248	0.279
FR1 n77_HPUE	100M	BPSK	1	1		Front	5mm	Ant 8+6	DSI 3	Close	656000	3840	20.26	21.9	1.459	50	1.000	-0.09	0.059	0.086
FR1 n77_HPUE	100M	BPSK	135	69		Front	5mm	Ant 8+6	DSI 3	Close	656000	3840	20.19	21.9	1.482	50	1.000	0.11	0.058	0.086
FR1 n77_HPUE	100M	BPSK	1	1		Back Top	5mm	Ant 8+6	DSI 3	Close	656000	3840	20.26	21.9	1.459	50	1.000	-0.05	0.477	0.696
FR1 n77_HPUE	100M	BPSK	135	69		Back Top	5mm	Ant 8+6	DSI 3	Close	656000	3840	20.19	21.9	1.482	50	1.000	-0.08	0.349	0.517
FR1 n77_PC1.5	100M	BPSK	1	1		Back Top	5mm	Ant 8+6	DSI 3	Close	656000	3840	23.29	24.9	1.449	50	1.000	0.16	0.426	0.617
FR1 n77_HPUE	100M	BPSK	1	1		Front	9mm	Ant 8+6	DSI 4	Close	656000	3840	26.46	27	1.134	50	1.000	0.05	0.088	0.1
FR1 n77_HPUE	100M	BPSK	135	69		Front	9mm	Ant 8+6	DSI 4	Close	656000	3840	26.35	27	1.161	50	1.000	0.05	0.074	0.086
FR1 n77_HPUE	100M	BPSK	1	1		Back Top	13mm	Ant 8+6	DSI 4	Close	656000	3840	26.46	27	1.134	50	1.000	-0.03	0.267	0.303
FR1 n77_HPUE	100M	BPSK	135	69		Back Top	13mm	Ant 8+6	DSI 4	Close	656000	3840	26.35	27	1.161	50	1.000	-0.15	0.235	0.273
FR1 n77_PC1.5	100M	BPSK	1	1		Back Top	13mm	Ant 8+6	DSI 4	Close	656000	3840	29.51	30	1.121	50	1.000	0.02	0.260	0.291

LTE CA SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	99	Back Top	13mm	Ant 3	DSI 4	Close	18900+18900	1880+1899.8	23.11	24.00	1.227	0.05	0.804	0.987
	LTE Band 2	20M	QPSK	1	99	Back Right	5mm	Ant 4	DSI 3	Close	18900+18900	1880+1899.8	21.53	23.00	1.403	0.03	0.818	1.148

NRCA SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Maximum Duty Cycle %	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n41	100M	BPSK	144	129	Back Top	5mm	Ant 3	DSI 3	Close	509598+528582	2547.99+2642.91	16.45	18.20	1.496	100.0	1.000	100.0	0.02	0.901	1.348
	FR1 n41	100M	BPSK	144	129	Back Right	5mm	Ant 4	DSI 3	Close	509598+528582	2547.99+2642.91	19.83	21.60	1.503	100.0	1.000	100.0	0.02	0.753	1.132
	FR1 n77	100M	BPSK	162	108	Back Right	5mm	Ant 4	DSI 3	Close	644000+648328	3660+3724.92	18.93	19.90	1.250	100.0	1.000	100.0	0.03	0.815	1.019
	FR1 n77 HPUE	100M	BPSK	162	108	Back Right	5mm	Ant 4	DSI 3	Close	644000+648328	3660+3724.92	21.89	22.90	1.262	50.0	1.000	50.0	0.02	0.825	1.041
	FR1 n77	100M	BPSK	162	108	Back Top	5mm	Ant 6	DSI 3	Close	644000+648328	3660+3724.92	21.13	22.40	1.340	100.0	1.000	100.0	0.03	0.456	0.611
	FR1 n77	100M	BPSK	162	108	Back Top	5mm	Ant 8	DSI 3	Close	644000+648328	3660+3724.92	16.98	18.90	1.556	100.0	1.000	100.0	0.03	0.602	0.937
	FR1 n77 HPUE	100M	BPSK	162	108	Back Top	5mm	Ant 8	DSI 3	Close	644000+648328	3660+3724.92	19.98	21.90	1.556	50.0	1.000	50.0	0.03	0.601	0.935

【WLAN 2.4GHz_5GHz SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 7+11(7)	DSI 3	Close	11	2462	19.79	21.30	1.416	97.05	1.03	0.08	0.108	0.158
91	WLAN2.4GHz	802.11b 1Mbps	Back Top	5mm	Ant 7+11(7)	DSI 3	Close	11	2462	19.79	21.30	1.416	97.05	1.03	-0.04	0.562	0.820
	WLAN2.4GHz	802.11b 1Mbps	Back Top	5mm	Ant 7+11(7)	DSI 3	Close	6	2437	19.72	21.30	1.439	97.05	1.03	-0.12	0.474	0.703
	WLAN2.4GHz	802.11b 1Mbps	Back Right	5mm	Ant 7+11(7)	DSI 3	Close	11	2462	19.79	21.30	1.416	97.05	1.03	0.09	0.253	0.369
	WLAN2.4GHz	802.11b 1Mbps	Back Left	5mm	Ant 7+11(7)	DSI 3	Close	11	2462	19.79	21.30	1.416	97.05	1.03	-0.10	0.060	0.088
	WLAN2.4GHz	802.11b 1Mbps	Front	9mm	Ant 7+11(7)	DSI 4	Close	11	2462	20.77	22.50	1.489	97.05	1.03	-0.08	0.058	0.089
	WLAN2.4GHz	802.11b 1Mbps	Back Top	13mm	Ant 7+11(7)	DSI 4	Close	11	2462	20.77	22.50	1.489	97.05	1.03	0.07	0.119	0.183
	WLAN2.4GHz	802.11b 1Mbps	Back Right	13mm	Ant 7+11(7)	DSI 4	Close	11	2462	20.77	22.50	1.489	97.05	1.03	0.00	0.067	0.103
	WLAN2.4GHz	802.11b 1Mbps	Back Left	13mm	Ant 7+11(7)	DSI 4	Close	11	2462	20.77	22.50	1.489	97.05	1.03	-0.11	0.001	0.002
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+1(1)	DSI 3	Close	50	5250	16.42	17.50	1.282	100.00	1.000	0.19	0.094	0.121
	WLAN5GHz	802.11ac-VHT160 MCS0	Back Top	5mm	Ant 6+1(1)	DSI 3	Close	50	5250	16.42	17.50	1.282	100.00	1.000	-0.12	0.675	0.865
92	WLAN5GHz	802.11ac-VHT160 MCS0	Back Right	5mm	Ant 6+1(1)	DSI 3	Close	50	5250	16.42	17.50	1.282	100.00	1.000	-0.11	0.825	1.058
	WLAN5GHz	802.11ac-VHT160 MCS0	Back 1	5mm	Ant 6+1(1)	DSI 3	Close	50	5250	16.42	17.50	1.282	100.00	1.000	-0.11	0.477	0.612

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	WLAN5GHz	802.11ac-VHT40 MCS0	Front	9mm	Ant 6+1(6)	DSI 4	Close	54	5270	16.75	18.50	1.496	100.00	1.000	-0.02	0.072	0.108
	WLAN5GHz	802.11ac-VHT40 MCS0	Back Top	13mm	Ant 6+1(6)	DSI 4	Close	54	5270	16.75	18.50	1.496	100.00	1.000	-0.19	0.162	0.242
	WLAN5GHz	802.11ac-VHT40 MCS0	Back Right	13mm	Ant 6+1(6)	DSI 4	Close	54	5270	16.75	18.50	1.496	100.00	1.000	0.17	0.369	0.552
	WLAN5GHz	802.11ac-VHT40 MCS0	Back 1	13mm	Ant 6+1(6)	DSI 4	Close	54	5270	16.75	18.50	1.496	100.00	1.000	0.00	0.502	0.751
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+1(6)	DSI 3	Close	114	5570	16.79	18.00	1.321	100.00	1.000	-0.06	0.040	0.053
93	WLAN5GHz	802.11ac-VHT160 MCS0	Back Top	5mm	Ant 6+1(6)	DSI 3	Close	114	5570	16.79	18.00	1.321	100.00	1.000	-0.03	0.827	1.092
	WLAN5GHz	802.11ac-VHT160 MCS0	Back Right	5mm	Ant 6+1(6)	DSI 3	Close	114	5570	16.79	18.00	1.321	100.00	1.000	-0.12	0.480	0.634
	WLAN5GHz	802.11ac-VHT160 MCS0	Back 1	5mm	Ant 6+1(6)	DSI 3	Close	114	5570	16.79	18.00	1.321	100.00	1.000	0.07	0.392	0.518
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	9mm	Ant 6+1(1)	DSI 4	Close	138	5690	17.39	19.00	1.449	100.00	1.000	-0.05	0.054	0.078
	WLAN5GHz	802.11ac-VHT80 MCS0	Back Top	13mm	Ant 6+1(1)	DSI 4	Close	138	5690	17.39	19.00	1.449	100.00	1.000	-0.15	0.379	0.549
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+1(1)	DSI 3	Close	155	5775	17.30	19.00	1.479	100.00	1.000	0.10	0.048	0.071
	WLAN5GHz	802.11ac-VHT80 MCS0	Back Top	5mm	Ant 6+1(1)	DSI 3	Close	155	5775	17.30	19.00	1.479	100.00	1.000	0.03	0.372	0.550
94	WLAN5GHz	802.11ac-VHT80 MCS0	Back Right	5mm	Ant 6+1(1)	DSI 3	Close	155	5775	17.30	19.00	1.479	100.00	1.000	-0.01	0.447	0.661
	WLAN5GHz	802.11ac-VHT80 MCS0	Back 1	5mm	Ant 6+1(1)	DSI 3	Close	155	5775	17.30	19.00	1.479	100.00	1.000	0.13	0.245	0.362

【Bluetooth SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	BR / EDR 1Mbps	Front	5mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	-0.18	0.093	0.146
95	Bluetooth	BR / EDR 1Mbps	Back Top	5mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	-0.19	0.157	0.247
	Bluetooth	BR / EDR 1Mbps	Back Right	5mm	Ant 7	Full Power	Close	39	2441	18.87	20.50	1.455	77.01	1.082	0.11	0.002	0.003
	Bluetooth	BR / EDR 1Mbps	Front	5mm	Ant 11	Full Power	Close	39	2441	19.41	21.00	1.442	76.66	1.087	-0.03	0.001	0.002
	Bluetooth	BR / EDR 1Mbps	Back Left	5mm	Ant 11	Full Power	Close	39	2441	19.41	21.00	1.442	76.66	1.087	0.18	0.040	0.063

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11be-EHT320 MCS0	Front	5mm	Ant 6+1(6)	DSI 3	Close	31	6105	13.95	15.3	1.365	100	1.000	-0.02	0.042	0.057	0.173
	WLAN6GHz	802.11be-EHT320 MCS0	Back Top	5mm	Ant 6+1(6)	DSI 3	Close	31	6105	13.95	15.3	1.365	100	1.000	0.02	0.353	0.482	1.670
	WLAN6GHz	802.11be-EHT320 MCS0	Back Top	5mm	Ant 6+1(6)	DSI 3	Close	63	6265	13.71	15.3	1.442	100	1.000	0.09	0.344	0.496	1.740
	WLAN6GHz	802.11be-EHT320 MCS0	Back Top	5mm	Ant 6+1(1)	DSI 3	Close	95	6425	13.56	15.3	1.493	100	1.000	0.01	0.363	0.542	1.870
	WLAN6GHz	802.11be-EHT320 MCS0	Back Top	5mm	Ant 6+1(1)	DSI 3	Close	127	6585	13.79	15.3	1.416	100	1.000	0.09	0.381	0.539	1.970
96	WLAN6GHz	802.11be-EHT320 MCS0	Back Top	5mm	Ant 6+1(1)	DSI 3	Close	159	6745	12.83	14.8	1.574	100	1.000	0.05	0.400	0.63	2.230
	WLAN6GHz	802.11be-EHT320 MCS0	Back Top	5mm	Ant 6+1(6)	DSI 3	Close	191	6905	13.41	15.3	1.545	100	1.000	-0.03	0.398	0.615	2.210
	WLAN6GHz	802.11be-EHT320 MCS0	Back Right	5mm	Ant 6+1(6)	DSI 3	Close	31	6105	13.95	15.3	1.365	100	1.000	0.01	0.284	0.388	1.320
	WLAN6GHz	802.11be-EHT320 MCS0	Back 1	5mm	Ant 6+1(6)	DSI 3	Close	31	6105	13.95	15.3	1.365	100	1.000	0.05	0.270	0.369	1.010
	WLAN6GHz	802.11ax-HE160 MCS0	Front	9mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	-0.02	0.031	0.047	0.161
	WLAN6GHz	802.11ax-HE160 MCS0	Back Top	13mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	0.09	0.229	0.347	1.520
	WLAN6GHz	802.11ax-HE160 MCS0	Back Right	13mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	-0.02	0.126	0.191	0.866
	WLAN6GHz	802.11ax-HE160 MCS0	Back 1	13mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	0.01	0.221	0.335	1.400

<Spot check>

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	132072	1720	19.97	20.8	1.211	100	1.000	-0.09	0.805	0.975
97	LTE Band 43	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	43690	3610	18.85	20	1.303	62.9	1.006	0.02	0.818	1.072
98	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	55340	3560	19.42	20.7	1.343	62.9	1.006	-0.19	0.905	1.223
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	55830	3609	19.44	20.7	1.337	62.9	1.006	-0.03	0.833	1.12
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	56150	3641	19.4	20.7	1.349	62.9	1.006	-0.02	0.845	1.147
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	56640	3690	19.36	20.7	1.361	62.9	1.006	0.08	0.872	1.194

**16.4 Body SAR (Tablet)****<Flip Open>**

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
99	GSM1900	GPRS 4 Tx slots	Back Top	0mm	Ant 3	DSI 12	Open	661	1880	17.70	19.10	1.380	-	-	0.02	0.918	1.267
	GSM1900	GPRS 4 Tx slots	Back Top	0mm	Ant 3	DSI 12	Open	512	1850.2	17.62	19.10	1.406	-	-	0.11	0.890	1.251
	GSM1900	GPRS 4 Tx slots	Back Top	0mm	Ant 3	DSI 12	Open	810	1909.8	17.57	19.10	1.422	-	-	0.10	0.861	1.224
	GSM1900	GPRS 4 Tx slots	Top Side	0mm	Ant 3	DSI 12	Open	661	1880	17.70	19.10	1.380	-	-	0.03	0.847	1.169
	GSM1900	GPRS 4 Tx slots	Top Side	0mm	Ant 3	DSI 12	Open	512	1850.2	17.62	19.10	1.406	-	-	-0.01	0.820	1.153
	GSM1900	GPRS 4 Tx slots	Top Side	0mm	Ant 3	DSI 12	Open	810	1909.8	17.57	19.10	1.422	-	-	-0.10	0.815	1.159
	GSM1900	GPRS 3 Tx slots	Back top	12mm	Ant 3	DSI 4	Open	661	1880	25.36	26.50	1.300	-	-	0.03	0.505	0.657
	GSM1900	GPRS 3 Tx slots	Top Side	15mm	Ant 3	DSI 4	Open	661	1880	25.36	26.50	1.300	-	-	0.01	0.313	0.407
	GSM1900	GPRS 4 Tx slots	Back Right	0mm	Ant 4	DSI 12	Open	661	1880	17.80	19.10	1.349	-	-	-0.15	0.856	1.155
	GSM1900	GPRS 4 Tx slots	Back Right	0mm	Ant 4	DSI 12	Open	512	1850.2	17.66	19.10	1.393	-	-	0.13	0.820	1.142
	GSM1900	GPRS 4 Tx slots	Back Right	0mm	Ant 4	DSI 12	Open	810	1909.8	17.73	19.10	1.371	-	-	-0.09	0.838	1.149
	GSM1900	GPRS 4 Tx slots	Right Side	0mm	Ant 4	DSI 12	Open	661	1880	17.80	19.10	1.349	-	-	-0.01	0.756	1.020
	GSM1900	GPRS 4 Tx slots	Right Side	0mm	Ant 4	DSI 12	Open	512	1850.2	17.66	19.10	1.393	-	-	-0.18	0.717	0.999
	GSM1900	GPRS 4 Tx slots	Right Side	0mm	Ant 4	DSI 12	Open	810	1909.8	17.73	19.10	1.371	-	-	-0.13	0.703	0.964
	GSM1900	GPRS 4 Tx slots	Top Side	0mm	Ant 4	DSI 12	Open	661	1880	17.80	19.10	1.349	-	-	0.07	0.187	0.252
	GSM1900	GPRS 3 Tx slots	Back Right	14mm	Ant 4	DSI 4	Open	661	1880	24.25	25.00	1.189	-	-	-0.13	0.136	0.162
	GSM1900	GPRS 3 Tx slots	Right Side	15mm	Ant 4	DSI 4	Open	661	1880	24.25	25.00	1.189	-	-	-0.17	0.093	0.111
	GSM1900	GPRS 3 Tx slots	Top Side	9mm	Ant 4	DSI 4	Open	661	1880	24.25	25.00	1.189	-	-	0.10	0.022	0.026
	WCDMA II	RMC 12.2Kbps	Back Top	0mm	Ant 3	DSI 12	Open	9400	1880	13.99	15.60	1.449	-	-	-0.12	0.726	1.052
	WCDMA II	RMC 12.2Kbps	Back Top	0mm	Ant 3	DSI 12	Open	9262	1852.4	13.86	15.60	1.493	-	-	-0.10	0.697	1.041
	WCDMA II	RMC 12.2Kbps	Back Top	0mm	Ant 3	DSI 12	Open	9538	1907.6	13.96	15.60	1.459	-	-	-0.19	0.695	1.014
100	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 12	Open	9400	1880	13.99	15.60	1.449	-	-	-0.01	0.829	1.201
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 12	Open	9262	1852.4	13.86	15.60	1.493	-	-	-0.07	0.791	1.181
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 12	Open	9538	1907.6	13.96	15.60	1.459	-	-	-0.18	0.761	1.110
	WCDMA II	RMC 12.2Kbps	Back top	12mm	Ant 3	DSI 4	Open	9400	1880	23.76	24.00	1.057	-	-	0.07	0.728	0.769
	WCDMA II	RMC 12.2Kbps	Top Side	15mm	Ant 3	DSI 4	Open	9400	1880	23.76	24.00	1.057	-	-	-0.18	0.432	0.457
	WCDMA II	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 12	Open	9400	1880	14.28	16.00	1.486	-	-	-0.06	0.541	0.804
	WCDMA II	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 12	Open	9262	1852.4	14.27	16.00	1.489	-	-	-0.03	0.594	0.884
	WCDMA II	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 12	Open	9538	1907.6	14.24	16.00	1.500	-	-	-0.05	0.472	0.708
	WCDMA II	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 12	Open	9400	1880	14.28	16.00	1.486	-	-	0.02	0.646	0.960
	WCDMA II	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 12	Open	9262	1852.4	14.27	16.00	1.489	-	-	0.03	0.640	0.953
	WCDMA II	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 12	Open	9538	1907.6	14.24	16.00	1.500	-	-	0.15	0.628	0.942
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 4	DSI 12	Open	9400	1880	14.28	16.00	1.486	-	-	0.12	0.092	0.137
	WCDMA II	RMC 12.2Kbps	Back Right	14mm	Ant 4	DSI 4	Open	9400	1880	22.74	24.00	1.337	-	-	0.01	0.534	0.714
	WCDMA II	RMC 12.2Kbps	Right Side	15mm	Ant 4	DSI 4	Open	9400	1880	22.74	24.00	1.337	-	-	0.03	0.450	0.602
	WCDMA II	RMC 12.2Kbps	Top Side	9mm	Ant 4	DSI 4	Open	9400	1880	22.74	24.00	1.337	-	-	0.09	0.151	0.202
	WCDMA IV	RMC 12.2Kbps	Back Top	0mm	Ant 3	DSI 12	Open	1413	1732.6	13.89	15.10	1.321	-	-	-0.16	0.763	1.008
	WCDMA IV	RMC 12.2Kbps	Back Top	0mm	Ant 3	DSI 12	Open	1312	1712.4	13.86	15.10	1.330	-	-	-0.04	0.739	0.983
	WCDMA IV	RMC 12.2Kbps	Back Top	0mm	Ant 3	DSI 12	Open	1513	1752.6	13.86	15.10	1.330	-	-	0.14	0.724	0.963
101	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 12	Open	1413	1732.6	13.89	15.10	1.321	-	-	-0.02	0.962	1.271
	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 12	Open	1312	1712.4	13.86	15.10	1.330	-	-	0.07	0.897	1.193
	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 12	Open	1513	1752.6	13.86	15.10	1.330	-	-	-0.11	0.916	1.218
	WCDMA IV	RMC 12.2Kbps	Back top	12mm	Ant 3	DSI 4	Open	1413	1732.6	23.75	24.00	1.059	-	-	0.03	0.834	0.883
	WCDMA IV	RMC 12.2Kbps	Back top	12mm	Ant 3	DSI 4	Open	1312	1712.4	23.67	24.00	1.079	-	-	0.01	0.749	0.808
	WCDMA IV	RMC 12.2Kbps	Back top	12mm	Ant 3	DSI 4	Open	1513	1752.6	23.73	24.00	1.064	-	-	0.06	0.808	0.860
	WCDMA IV	RMC 12.2Kbps	Top Side	15mm	Ant 3	DSI 4	Open	1413	1732.6	23.75	24.00	1.059	-	-	0.08	0.532	0.563
	WCDMA IV	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 12	Open	1413	1732.6	14.46	16.00	1.426	-	-	-0.14	0.762	1.087
	WCDMA IV	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 12	Open	1312	1712.4	14.33	16.00	1.469	-	-	-0.18	0.696	1.022
	WCDMA IV	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 12	Open	1513	1752.6	14.43	16.00	1.435	-	-	0.15	0.654	0.938
	WCDMA IV	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 12	Open	1413	1732.6	14.46	16.00	1.426	-	-	-0.19	0.602	0.858



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	WCDMA IV	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 12	Open	1312	1712.4	14.33	16.00	1.469	-	-	-0.03	0.622	0.914
	WCDMA IV	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 12	Open	1513	1752.6	14.43	16.00	1.435	-	-	-0.08	0.578	0.829
	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 4	DSI 12	Open	1413	1732.6	14.46	16.00	1.426	-	-	-0.08	0.097	0.138
	WCDMA IV	RMC 12.2Kbps	Back Right	14mm	Ant 4	DSI 4	Open	1413	1732.6	22.76	24.00	1.330	-	-	0.03	0.600	0.798
	WCDMA IV	RMC 12.2Kbps	Right Side	15mm	Ant 4	DSI 4	Open	1413	1732.6	22.76	24.00	1.330	-	-	0.01	0.298	0.396
	WCDMA IV	RMC 12.2Kbps	Top Side	9mm	Ant 4	DSI 4	Open	1413	1732.6	22.76	24.00	1.330	-	-	0.09	0.090	0.120

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	21100	2535	12.63	13.60	1.250	-	-	0.07	0.838	1.048
	LTE Band 7	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	20850	2510	12.62	13.60	1.253	-	-	-0.07	0.833	1.044
	LTE Band 7	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	21350	2560	12.62	13.60	1.253	-	-	-0.19	0.932	1.168
	LTE Band 7	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	21100	2535	12.61	13.60	1.256	-	-	-0.06	0.740	0.929
	LTE Band 7	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	20850	2510	12.58	13.60	1.265	-	-	-0.08	0.681	0.861
	LTE Band 7	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	21350	2560	12.57	13.60	1.268	-	-	0.18	0.838	1.063
	LTE Band 7	20M	QPSK	100	0	Back Top	0mm	Ant 3	DSI 12	Open	21100	2535	12.47	13.60	1.297	-	-	0.05	0.651	0.844
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	21100	2535	12.63	13.60	1.250	-	-	0.14	0.885	1.106
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	20850	2510	12.62	13.60	1.253	-	-	0.12	0.868	1.088
102	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	21350	2560	12.62	13.60	1.253	-	-	-0.07	1.030	1.291
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	21100	2535	12.61	13.60	1.256	-	-	-0.12	0.866	1.088
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	20850	2510	12.58	13.60	1.265	-	-	0.18	0.774	0.979
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	21350	2560	12.57	13.60	1.268	-	-	0.09	0.920	1.167
	LTE Band 7	20M	QPSK	100	0	Top Side	0mm	Ant 3	DSI 12	Open	21100	2535	12.47	13.60	1.297	-	-	-0.16	0.915	1.187
	LTE Band 7	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	21100	2535	23.35	24.00	1.161	-	-	0.02	0.934	1.084
	LTE Band 7	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	20850	2510	23.28	24.00	1.180	-	-	0.03	0.908	1.071
	LTE Band 7	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	21350	2560	23.33	24.00	1.167	-	-	0.01	0.925	1.079
	LTE Band 7	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	21100	2535	22.36	23.00	1.159	-	-	-0.13	0.811	0.940
	LTE Band 7	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	20850	2510	22.31	23.00	1.172	-	-	0.09	0.734	0.860
	LTE Band 7	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	21350	2560	22.34	23.00	1.164	-	-	0.02	0.765	0.890
	LTE Band 7	20M	QPSK	100	0	Back top	12mm	Ant 3	DSI 4	Open	21100	2535	22.32	23.00	1.169	-	-	0.01	0.711	0.831
	LTE Band 7	20M	QPSK	1	0	Top Side	15mm	Ant 3	DSI 4	Open	21100	2535	23.35	24.00	1.161	-	-	0.06	0.498	0.578
	LTE Band 7	20M	QPSK	50	0	Top Side	15mm	Ant 3	DSI 4	Open	21100	2535	22.36	23.00	1.159	-	-	0.08	0.401	0.465
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	21350+21152	2560+2540.2	12.41	13.60	1.315	-	-	0.03	0.896	1.178
	LTE Band 7	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	21100	2535	13.04	13.90	1.219	-	-	0.00	0.651	0.794
	LTE Band 7	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	21100	2535	13.02	13.90	1.225	-	-	0.14	0.646	0.791
	LTE Band 7	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	21100	2535	13.04	13.90	1.219	-	-	0.09	0.960	1.170
	LTE Band 7	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	20850	2510	13.01	13.90	1.227	-	-	-0.09	1.020	1.252
	LTE Band 7	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	21350	2560	13.02	13.90	1.225	-	-	0.05	1.050	1.286
	LTE Band 7	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	21100	2535	13.02	13.90	1.225	-	-	-0.18	0.947	1.160
	LTE Band 7	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	20850	2510	12.93	13.90	1.250	-	-	-0.18	0.950	1.188
	LTE Band 7	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	21350	2560	13.00	13.90	1.230	-	-	0.04	0.939	1.155
	LTE Band 7	20M	QPSK	100	0	Right Side	0mm	Ant 4	DSI 12	Open	21350	2560	12.98	13.90	1.236	-	-	0.18	0.886	1.095
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 12	Open	21100	2535	13.04	13.90	1.219	-	-	0.07	0.145	0.177
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 4	DSI 12	Open	21100	2535	13.02	13.90	1.225	-	-	0.08	0.126	0.154
	LTE Band 7	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	21100	2535	21.95	23.00	1.274	-	-	0.03	0.601	0.766
	LTE Band 7	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	21100	2535	20.98	22.00	1.265	-	-	0.14	0.523	0.662
	LTE Band 7	20M	QPSK	1	0	Right Side	15mm	Ant 4	DSI 4	Open	21100	2535	21.95	23.00	1.274	-	-	0.13	0.494	0.629
	LTE Band 7	20M	QPSK	50	0	Right Side	15mm	Ant 4	DSI 4	Open	21100	2535	20.98	22.00	1.265	-	-	0.08	0.414	0.524
	LTE Band 7	20M	QPSK	1	0	Top Side	9mm	Ant 4	DSI 4	Open	21100	2535	21.95	23.00	1.274	-	-	-0.17	0.152	0.194
	LTE Band 7	20M	QPSK	50	0	Top Side	9mm	Ant 4	DSI 4	Open	21100	2535	20.98	22.00	1.265	-	-	-0.16	0.140	0.177
	LTE Band 7	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	21350+21152	2560+2540.2	12.75	13.90	1.303	-	-	0.03	0.958	1.248
	LTE Band 25	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	26340	1880	14.79	16.30	1.416	-	-	-0.06	0.829	1.174
	LTE Band 25	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	26140	1860	14.78	16.30	1.419	-	-	-0.10	0.854	1.212
	LTE Band 25	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	26590	1905	14.77	16.30	1.422	-	-	0.14	0.822	1.169
	LTE Band 25	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	26340	1880	14.76	16.30	1.426	-	-	0.10	0.770	1.098