FCC SAR Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2201-1
FCC ID	:	IHDT56AB1
STANDARD	:	FCC 47 CFR Part 2 (2.1093)

We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Tony Zhang

Reviewed by: Tony Zhang / Supervisor

Kat Yin

Approved by: Kat Yin / Manager

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People's Republic of China

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA192317	Rev. 01	Initial issue of report.	Dec. 14, 2021
FA192317	Rev. 02	1. Add note 23 for DBS function on page 9. 2. Updated relevant data of WCDMA Band IV, 5G NR n77/n78 and WLAN 5GHz. 3. Updated Simultaneous SAR analysis for these bands.	Dec. 22, 2021

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT2201-1,** are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	1.24	0.93	1.17	1.58
		GSM1900	<0.10	0.92	1.25	
	WCDMA	Band II	<0.10	0.92	1.24	
		Band IV	0.10	0.94	1.24	
		Band V	1.16	0.94	1.25	
	LTE	Band 7	1.25	0.94	1.25	
		Band 12/ 17	1.00	0.84	1.19	
		Band 13	0.83	0.89	1.15	
		Band 25/ 2	1.25	0.94	1.26	
		Band 26/ 5	1.25	0.94	1.17	
		Band 66/ 4	1.25	0.94	1.23	
		Band 38	1.19	0.95	**1.28**	
		Band 41	**1.26**	0.94	1.25	
		Band 42 Part27Q	0.86	**0.98**	1.26	
		Band 48 / 42/ 43	0.71	0.90	1.24	
	5G NR	n5	0.17	0.94	0.99	
		n7	**1.26**	0.93	1.24	
		n38	1.23	0.93	1.25	
		n66	**1.26**	0.94	1.24	
		n77	1.24	0.94	1.25	
		n78	1.23	0.92	1.25	
DTS	WLAN	2.4GHz WLAN	1.15	0.53	1.13	1.56
NII		5GHz WLAN	1.19	0.28	1.20	1.58
DSS	Bluetooth	2.4GHz Bluetooth	0.27	0.32	0.32	1.58

Highest 10g SAR Summary				
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)	Highest Simultaneous Transmission 10g SAR (W/kg)
Licensed	GSM	GSM850	1.75	3.86
		GSM1900	3.11	
	WCDMA	Band II	3.13	
		Band IV	3.13	
		Band V	1.94	
	LTE	Band 7	3.11	
		Band 25/ 2	3.14	
		Band 66/ Band 4	3.12	
		Band 38	3.13	
		Band 41	3.13	
		Band 42	3.13	
		Band 48 / 43	**3.23**	
	5G NR	n7	3.11	
		n38	3.12	
		n66	3.11	
		n77	3.08	

		n78	3.12	
DTS		2.4GHz WLAN	2.13	3.86
NII	WLAN	5GHz WLAN	3.04	3.86
Date of Testing:			2021/10/27 ~ 2021/12/20	

Remark:

1. This device supports LTE B2 / B4 / B5 / B17 and B25 / B66 / B26 / B12. Since the supported frequency span for LTE B2 / B4 / B5 / B17 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B12, 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.
2. LTE B42(3550 MHz ~ 3600MHz) / B43 SAR test was covered by LTE B48, due to the output power level and have duplicate frequency range.

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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.

2. Administration Data

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Testing Laboratory			
Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR06-KS	CN1257	314309

Applicant	
Company Name	Motorola Mobility LLC
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

Manufacturer	
Company Name	Motorola Mobility LLC
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- 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 616217 D04 SAR for laptop and tablets v01r02
- 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

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2201-1
FCC ID	IHDT56AB1
IMEI Code	SIM1: 355871980014455 SIM2: 355871980014463
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 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 ~ 3550MHz, 3550 MHz ~ 3600MHz LTE Band 43: 3600 MHz ~ 3700MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz 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 6E U-NII-5: 5925 MHz ~ 6425 MHz WLAN 6E U-NII-6: 6425 MHz ~ 6525 MHz WLAN 6E U-NII-7: 6525 MHz ~ 6875 MHz WLAN 6E U-NII-8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz WPC: 110KHz ~ 148 KHz NFC: 13.56 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 : CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac/ax VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160

	WLAN 6GHz 802.11a WLAN 6GHz 802.11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE WPC: ASK NFC: ASK
HW Version	DVT2
SW Version	SSH32.79
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 and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. This device 2.4GHz WLAN 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). WIFI 6E has no hotspot function.
4. The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
5. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
6. There are two different types of EUT. They are single SIM card mobile and dual SIM card mobile. The others are the same including circuit design, PCB board, structure and all components. It is special to declare. After pre-scan two types of EUT, we found test result of the sample that dual SIM was the worst, so we chose dual SIM card mobile to perform all tests.
7. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.
8. The device implements the power management 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. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head and Handheld. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and Handheld.
10. For some WWAN bands, sensor on reduced power level is higher than hotspot reduced power level, so front/back sensor on SAR can represent hotspot conservatively.
11. 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 WCDMA, LTE and 5GNR 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 can be referred to section 18 and appendix F.
12. This device supports HPUE for LTE Band 38 with class 2 level, HPUE power have been measured separately. 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 we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
13. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
14. 5GNR n78 supports HPUE, HPUE power and SAR testing performed separately.
15. 5GNR n78 HUPE with higher power, 5GNR n78 HUPE SAR can represent power class 3 level SAR.
16. 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.
17. 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time.
18. 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.
19. 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.
20. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.
21. SAR Power density test report for WIFI 6E U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth, always chose higher SAR of WLAN5G U-NII-1/2A/2C/3 and U-NII-5/6/7/8.
22. RF exposure report for WPC (Wireless power charging) will be separately submitted.

23. This device supports DBS function, DBS means dual-band simultaneous, it integrates two complete path units, including two complete baseband processing and two RF front ends. Since it has two independent path units, it means that DBS can support both 2.4GHz and 5GHz/6GHz frequency bands at the same time. For DBS has independent reduced power level which can refer to power table at appendix E and please refer to section 17 Simultaneous Transmission Analysis, we have evaluated for simultaneous transmission.

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40
	n66	FDD	15	5, 10, 15, 20, 30, 40
	n38	TDD	30	10, 15, 20, 30, 40
	n77	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
SA	n7	FDD	15	5, 10, 15, 20, 25, 30, 40
	n38	TDD	30	10, 15, 20, 30, 40
	n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100

4.2 General LTE SAR Test and Reporting Considerations

<table>
<tr><th colspan="2">Summarized necessary items addressed in KDB 941225 D05 v02r05</th></tr>
<tr><td>FCC ID</td><td>IHDT56AB1</td></tr>
<tr><td>Equipment Name</td><td>Mobile Cellular Phone</td></tr>
<tr><td>Operating Frequency Range of each LTE transmission band</td><td>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 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 ~ 3550MHz, 3550 MHz ~ 3600MHz
LTE Band 43: 3600 MHz ~ 3700MHz
LTE Band 48: 3550 MHz ~ 3700 MHz
LTE Band 66: 1710 MHz ~ 1780 MHz</td></tr>
<tr><td>Channel Bandwidth</td><td>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 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</td></tr>
<tr><td>uplink modulations used</td><td>QPSK / 16QAM / 64QAM /256QAM</td></tr>
<tr><td>LTE Voice / Data requirements</td><td>Voice and Data</td></tr>
<tr><td>LTE Release Version</td><td>R16, Cat18</td></tr>
<tr><td>CA Support</td><td>Supported, Uplink and Downlink</td></tr>
<tr><td>LTE MPR permanently built-in by design</td><td>Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3
<table>
<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></td></tr>
<tr><td>LTE A-MPR</td><td>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)</td></tr>
<tr><td>Spectrum plots for RB configuration</td><td>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.</td></tr>
<tr><td>Power reduction applied to satisfy SAR compliance</td><td>Yes, head/body-worn/ hotspot/extremity will trigger reduced power for some LTE bands, the detail please referred to section 14.</td></tr>
<tr><td>LTE Carrier Aggregation Combinations</td><td>Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 14.</td></tr>
<tr><td>LTE Carrier Aggregation Additional Information</td><td>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 5 carriers in the downlink and 2 carriers in the uplink.</td></tr>
</table>

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)
L	20407	824.7	20415	825.5	20425	826.5	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	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)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	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)
L	23017	699.7	23025	700.5	23035	701.5	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	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 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	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

3450 MHz ~ 3550 MHz

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

4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz
Channel Bandwidth	5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz 5G NR n38: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz 5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz 5G NR n77: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz 5G NR n78: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
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 n5	LTE B7/66
LTE Anchor Bands for n7	LTE B2/5/66
LTE Anchor Bands for n66	LTE B2/5/7
LTE Anchor Bands for n78	LTE B2/4/5/7/38/41/66

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band

NR Band 5

	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	165300	826.5	165800	829	166300	831.5	166800	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839

NR Band 7

	Bandwidth 5MHz		Bandwidth 10MHz		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)	Ch. #	Freq. (MHz)
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520
M	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	510000	2550

NR Band 38

	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	515004	2575.02	515502	2577.51	516000	2580	517002	2585.01	518004	2590.02
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	522996	2614.98	522498	2612.49	522000	2610	520998	2604.99	519996	2599.98

NR Band 66

	Bandwidth 5MHz		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)	Ch. #	Freq. (MHz)
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	345000	1725	346000	1730
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353000	1765	352000	1760

NR Band 77																				
	Bandwidth 20MHz		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)
L	647334	3710.01	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	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	664668	3970.02	664334	3965.01	664000	3960	663668	3955.02	663334	3950.01	663000	3945	662668	3940.02	662334	3935.01	662000	3930

NR Band 78																		
	Bandwidth 20MHz		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)
L	647334	3710.01	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	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	652668	3790.02	652334	3785.01	652000	3780	651668	3775.02	651334	3770.01	651000	3765	650668	3760.02	650334	3755.01		

For <3450 MHz ~ 3550 MHz >

NR Band 77																		
	Bandwidth 20MHz		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)
L	630668	3460.02	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636000	3540	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

NR Band 78																		
	Bandwidth 20MHz		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)
L	630668	3460.02	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636000	3540	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

5. Smart Transmit feature for RF Exposure compliance

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 transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR (transmit frequency ≤ 6GHz). 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) to enable the Smart Transmit 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 6 GHz or below. It will then be used as input for Smart Transmit to control and manage RF exposure for f < 6 GHz.

<SAR design target and uncertainty>

	Uncertainty dB (k=2)
Total uncertainty	1.5

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

$$SAR\_design\_target < SAR_{regulatory\_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

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).

<P_{limit} for supported technologies and bands (P_{limit} in EFS file)>

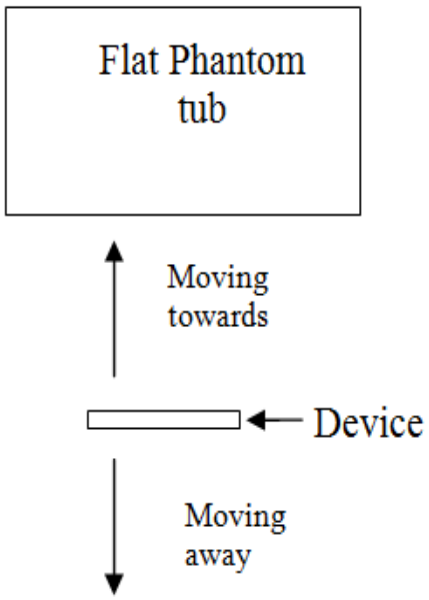
Band	Antenna	Head DSI 2 Standalone	Head DSI 2 Simultaneous	Body Worn DSI 3 Standalone	Body Worn & Hotspot DSI 3 Simultaneous	Extremely DSI6 Standalone	Extremely DSI6 Simultaneous	Sensor Off DSI4	Pamx
GSM850(3 Tx slots)	Ant 0	30.5	29	23.7	22.5	26.8	25.3	24.2	24.2
GSM850(3 Tx slots)	Ant 1	22.5	20.5	25.3	22.6	26.8	25.3	24.2	24.2
GSM1900(3 Tx slots)	Ant 0	35.1	33.8	17.7	13.5	20.7	19.7	21.2	21.2
WCDMA II	Ant 0	35.6	34.1	18.6	15	20.2	18.7	24.0	24.0
WCDMA IV	Ant 0	34.9	33.6	18.2	15.1	20.8	19.8	24.0	24.0
WCDMA V	Ant 0	31.3	30	23.5	22.5	26	24.5	24.0	24.0
WCDMA V	Ant 1	23.5	22.5	24.3	22.3	28.7	27.2	24.0	24.0
LTE Band 7	Ant 0	33	31.7	18.7	14.2	23.4	21.9	23.0	23.0
LTE Band 7	Ant 1	17.4	16.4	18.7	15.7	19.7	18.2	23.0	23.0
LTE Band 12/17	Ant 0	30.8	29.5	23.2	22.5	23	23	23.0	23.0
LTE Band 12/17	Ant 1	24	22.5	26.7	24.1	23	23	23.0	23.0
LTE Band 13	Ant 0	30.8	29.5	23.3	23.2	23	23	23.0	23.0
LTE Band 13	Ant 1	23.2	22.7	25.4	23.2	22	22	22.0	22.0
LTE Band 25/2	Ant 0	34.6	33.3	18.4	14.8	22.5	21	23.0	23.0
LTE Band 25/2	Ant 1	17.1	16.1	19.6	16.7	22.5	21	23.0	23.0
LTE Band 26/5	Ant 0	29.3	28	22.5	22	25.5	24	23.0	23.0
LTE Band 26/5	Ant 1	22.4	22.1	24.4	22.5	23	23	23.0	23.0
LTE Band 66/4	Ant 0	36	34.7	18.4	15.3	20.3	19.3	23.0	23.0
LTE Band 66/4	Ant 1	16.7	15.2	17.1	14.8	20.4	18.9	22.0	22.0
LTE Band 41	Ant 0	32.7	31.4	19.3	14.3	22.1	20.5	21.0	21.0
LTE Band 41	Ant 1	17.1	16.1	18.6	14.5	19.8	18.3	21.0	21.0
LTE Band 38	Ant 0	36.6	35.3	19.6	14.8	24.3	22.8	21.0	21.0
LTE Band 38	Ant 1	16.5	15.5	19	14.9	20.3	18.8	21.0	21.0
LTE Band 38 HPUE	Ant 0	36.6	35.3	19.6	14.8	24.3	22.8	22.4	22.4
LTE Band 38 HPUE	Ant 1	16.5	15.5	19	14.9	20.3	18.8	21.9	21.9
LTE Band 42	Ant 2	21.6	20.3	12.9	11.9	17.8	16.3	20.0	20.0
LTE Band 48/43	Ant 2	23.5	22.2	14.2	13.3	18.1	16.6	21.0	21.0
FR1 n5	Ant 0	31.6	29.7	24	22.3	23	23	23.0	23.0
FR1 n7	Ant 0	35.3	34.1	19.4	14.5	23	21.5	23.0	23.0
FR1 n7	Ant 1	18.3	17.3	19.3	15.3	19.7	18.7	23.0	23.0
FR1 n66	Ant 1	16.4	15.4	17.1	14.5	20	19	23.0	23.0
FR1 n38	Ant 1	17.8	16.8	19.1	14.6	20.1	18.6	23.0	23.0
FR1 n77	Ant 2	20.7	19.4	13.4	11.9	18	16.7	23.0	23.0
FR1 n78	Ant 2	21	19.7	12.9	12.2	18	16.7	23.0	23.0
FR1 n78 HPUE	Ant 2	21	19.7	12.9	12.2	18	16.7	26.0	26.0
FR1 N78	Ant 3	36.3	35	26.2	24.9	23	23	23.0	23.0
FR1 N78	Ant 7	27.9	26.6	17.8	15.2	21.5	20.5	23.0	23.0
FR1 N78 HPUE	Ant 7	27.9	26.6	17.8	15.2	21.5	20.5	26.0	26.0
FR1 N78	Ant 8	35.3	35.9	19.6	18.5	21.9	20.9	21.9	21.9

Note: 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + 1.0 dB uncertainty.
2) All P_{limit} 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).
3) The max allowed output power is the Plimit + 1.0 dB device uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.
4) 5G NR n78 ant 3, ant 7 and ant 8 support SRS (Sounding Reference Signal) functionality.

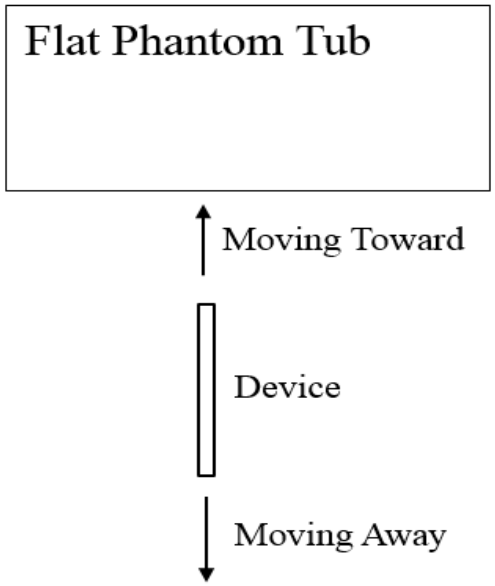
6. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according 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 (5850MHz) and lowest (835MHz) 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.
3. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
4. The sensors used to detect the proximity of the user's body at the front or back surface of the device use a detection threshold distance. The data shown in the sections below shows the distance(s). When front or back body worn condition is detected reduced power will be active.
5. 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/left/right sides of the device. When front/back/top/bottom/left/right sides of handheld condition is detected reduced power will be active.
6. 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:



Sensor detection test set-up, front and back sides



Sensor detection test set-up, top, bottom, left and right sides

<P-Sensor>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	19	21	22	23

<Handheld for ANT0>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	10	13	13	15	15	17

<Handheld for ANT1>

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	10	12	13	15	7	8	14	15

<Handheld for ANT2/7>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	8	9	18	21	20	23	4	5

<Handheld for ANT5>

Proximity Sensor Triggering Distance (mm)		
Position	Back	
	Moving towards	Moving away
Minimum	8	9

<Handheld for ANT6>

Proximity Sensor Triggering Distance (mm)		
Position	Back	
	Moving towards	Moving away
Minimum	5	7

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.

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:

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

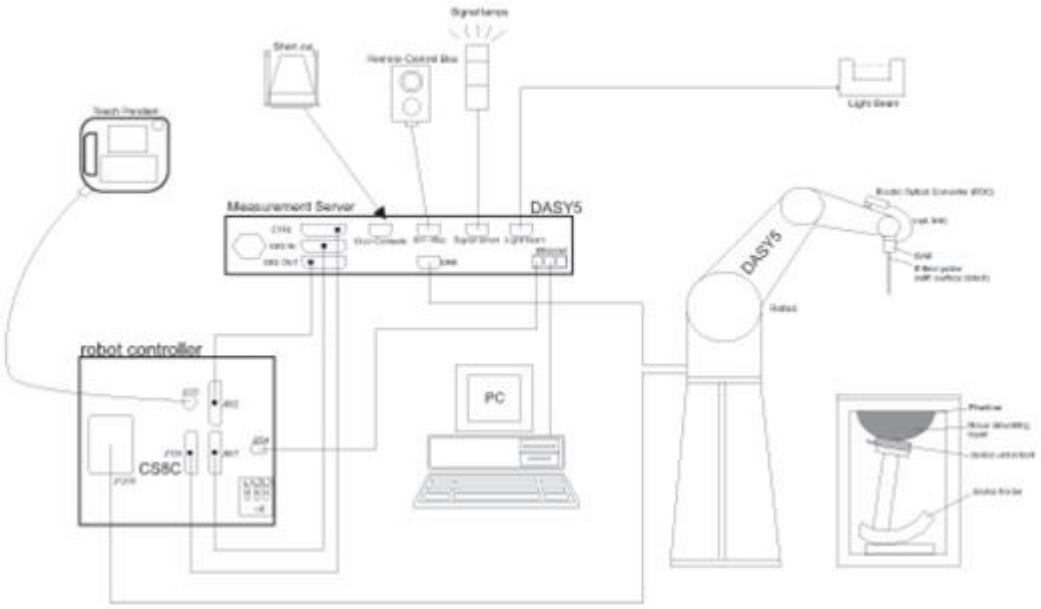
SAR is expressed in units of Watts per kilogram (W/kg)

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

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



- 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 WinXP or Win10 and the DASY5 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 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	10 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 µW/g – >100 mW/g Linearity: ±0.2 dB (noise: typically <1 µW/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

9.2 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.

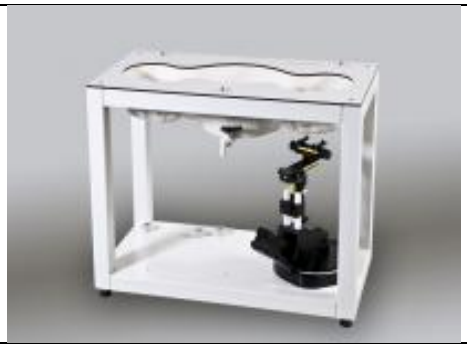
The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Photo of DAE

9.3 Phantom

<SAM Twin Phantom>

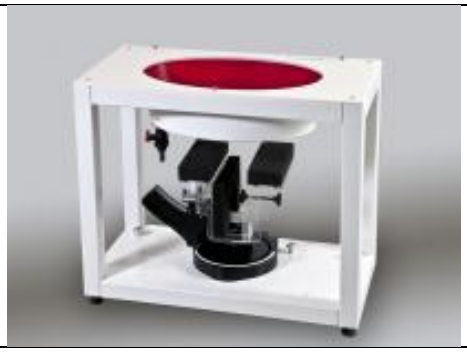
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



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.

9.4 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:

<Conducted power measurement>

(a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
(b) Read the WWAN RF power level from the base station simulator.
(c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
(d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

(a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, 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 form 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.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 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 ≤ 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 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 shoes 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: Δx_{Zoom}, Δy_{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: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
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 *reported* SAR from the *area scan based 1-g SAR estimation* 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 for 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	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	2019/3/27	2022/3/24
SPEAG	835MHz System Validation Kit	D835V2	4d258	2020/5/7	2023/5/6
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2019/3/27	2022/3/25
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	2019/3/26	2022/3/24
SPEAG	2450MHz System Validation Kit	D2450V2	908	2019/3/25	2022/3/23
SPEAG	2600MHz System Validation Kit	D2600V2	1061	2020/11/26	2021/11/25
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2020/11/25	2023/11/24
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2020/11/25	2023/11/24
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2020/5/14	2023/5/13
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2019/9/24	2022/9/22
SPEAG	Data Acquisition Electronics	DAE4	690	2021/3/17	2022/3/16
SPEAG	Data Acquisition Electronics	DAE4	1650	2021/6/9	2022/6/8
SPEAG	Dosimetric E-Field Probe	EX3DV4	7630	2021/2/10	2022/2/9
SPEAG	Dosimetric E-Field Probe	EX3DV4	3935	2021/4/29	2022/4/28
SPEAG	SAM Twin Phantom	SAM Twin	TP-1697	NCR	NCR
SPEAG	SAM Twin Phantom	SAM Twin	TP-2022	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6201432831	2021/4/13	2022/4/12
Agilent	ENA Series Network Analyzer	E5071C	MY46106933	2021/7/31	2022/7/30
SPEAG	Dielectric Probe Kit	DAK-3.5	1144	2020/12/2	2021/12/1
SPEAG	Dielectric Probe Kit	DAK-3.5	1138	2021/6/9	2022/6/8
Anritsu	Vector Signal Generator	MG3710A	6201682672	2021/1/7	2022/1/6
Rohde & Schwarz	Power Meter	NRVD	102081	2021/8/12	2022/8/11
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2021/8/12	2022/8/11
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2021/8/12	2022/8/11
R&S	CBT BLUETOOTH TESTER	CBT	101246	2021/4/12	2022/4/11
EXA	Spectrum Analyzer	FSV7	101632	2021/1/7	2022/1/6
FLUKE	DIGITAC THERMOMETER	51II	97240029	2021/8/13	2022/8/12
Testo	Thermo-Hygrometer	608-H1	1241332126	2021/1/7	2022/1/6
Testo	Thermo-Hygrometer	608-H1	1241332088	2021/1/7	2022/1/6
ARRA	Power Divider	A3200-2	N/A	Note 1	
MCL	Attenuation1	BW-S10W5+	N/A	Note 1	
MCL	Attenuation2	BW-S10W5+	N/A	Note 1	
MCL	Attenuation3	BW-S10W5+	N/A	Note 1	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	

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
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

12. System Verification

12.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 11.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 11.2.

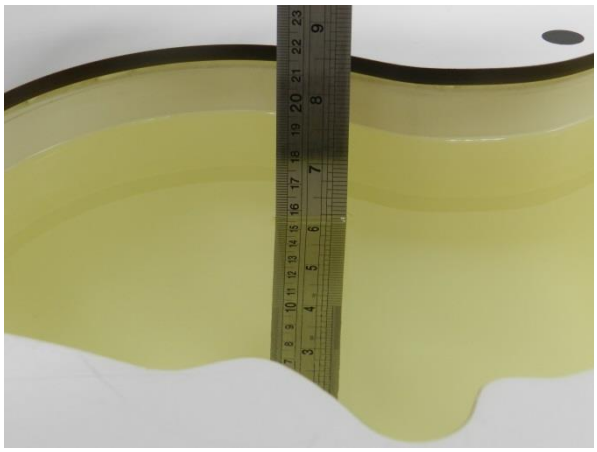


Fig 11.1 Photo of Liquid Height for Head SAR

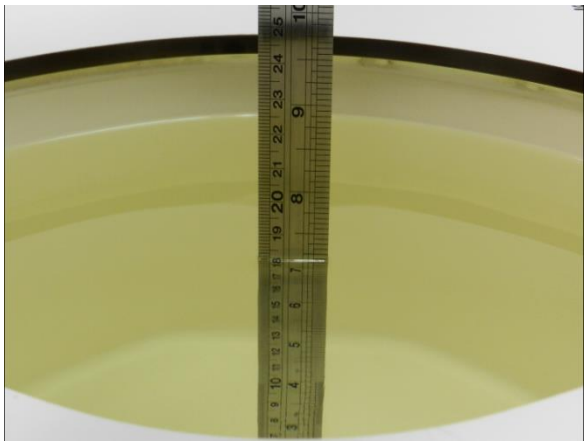


Fig 11.2 Photo of Liquid Height for Body SAR

12.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)
For Head								
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0

Simulating Liquid for 5GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	64~78%
Mineral oil	11~18%
Emulsifiers	9~15%
Additives and Salt	2~3%

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε_r)	Conductivity Target (σ)	Permittivity Target (ε_r)	Delta (σ) (%)	Delta (ε_r) (%)	Limit (%)	Date
750	Head	22.7	0.916	43.396	0.89	41.90	2.92	3.57	±5	2021/10/27
835	Head	22.8	0.933	41.176	0.90	41.50	3.67	-0.78	±5	2021/10/28
1750	Head	22.7	1.394	40.500	1.37	40.10	1.75	1.00	±5	2021/10/29
1900	Head	22.9	1.458	39.790	1.40	40.00	4.14	-0.53	±5	2021/10/30
2450	Head	22.7	1.805	38.565	1.80	39.20	0.28	-1.62	±5	2021/10/31
2600	Head	22.6	1.923	38.258	1.96	39.00	-1.89	-1.90	±5	2021/11/1
3500	Head	22.7	2.787	39.107	2.91	37.90	-4.23	3.18	±5	2021/11/3
3700	Head	22.7	3.023	38.717	3.12	37.70	-3.11	2.70	±5	2021/11/4
3900	Head	22.9	3.177	38.251	3.32	37.50	-4.31	2.00	±5	2021/11/6
5250	Head	22.9	4.589	36.226	4.71	35.90	-2.57	0.91	±5	2021/11/7
5600	Head	22.9	4.968	35.681	5.07	35.50	-2.01	0.51	±5	2021/11/8
5750	Head	22.9	5.138	35.510	5.22	35.40	-1.57	0.31	±5	2021/11/9
750	Head	22.7	0.898	42.323	0.89	41.90	0.90	1.01	±5	2021/11/10
835	Head	22.8	0.928	42.060	0.90	41.50	3.11	1.35	±5	2021/11/11
1750	Head	22.7	1.380	39.991	1.37	40.10	0.73	-0.27	±5	2021/11/12
1900	Head	22.9	1.453	39.680	1.40	40.00	3.79	-0.80	±5	2021/11/13
2450	Head	22.7	1.873	40.808	1.80	39.20	4.06	4.10	±5	2021/11/14
2600	Head	22.6	1.980	40.596	1.96	39.00	1.02	4.09	±5	2021/11/15
3500	Head	22.7	2.798	38.957	2.91	37.90	-3.85	2.79	±5	2021/11/17
3700	Head	22.7	2.981	38.650	3.12	37.70	-4.46	2.52	±5	2021/11/18
3900	Head	22.9	3.181	38.361	3.32	37.50	-4.19	2.30	±5	2021/11/20
5250	Head	22.7	4.587	36.212	4.71	35.90	-2.61	0.87	±5	2021/11/21
5600	Head	22.7	4.964	35.707	5.07	35.50	-2.09	0.58	±5	2021/11/22
5750	Head	22.7	5.137	35.516	5.22	35.40	-1.59	0.33	±5	2021/11/23
1750	Head	22.9	1.344	38.993	1.37	40.10	-1.90	-2.76	±5	2021/12/15
3500	Head	22.7	2.826	39.043	2.91	37.90	-2.89	3.02	±5	2021/12/17
3700	Head	22.7	3.015	38.714	3.12	37.70	-3.37	2.69	±5	2021/12/17
3900	Head	22.7	3.219	38.416	3.32	37.50	-3.04	2.44	±5	2021/12/17
5250	Head	22.8	4.588	36.225	4.71	35.90	-2.59	0.91	±5	2021/12/20
5750	Head	22.8	5.137	35.509	5.22	35.40	-1.59	0.31	±5	2021/12/20

12.3 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.

<1g SAR>

Date	Frequency (MHz)	Tissue Type	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 (%)
2021/10/27	750	Head	50	1087	7630	690	0.417	8.36	8.34	-0.24
2021/10/28	835	Head	50	4d258	7630	690	0.501	9.44	10.02	6.14
2021/10/29	1750	Head	50	1090	7630	690	1.870	36.40	37.4	2.75
2021/10/30	1900	Head	50	5d170	7630	690	2.010	39.00	40.2	3.08
2021/10/31	2450	Head	50	908	7630	690	2.510	52.80	50.2	-4.92
2021/11/1	2600	Head	50	1061	7630	690	2.690	56.60	53.8	-4.95
2021/11/3	3500	Head	50	1037	7630	690	3.190	68.00	63.8	-6.18
2021/11/4	3700	Head	50	1008	7630	690	3.150	67.60	63	-6.80
2021/11/6	3900	Head	50	1048	3935	1650	3.300	68.90	66	-4.21
2021/11/7	5250	Head	50	1113	7630	690	3.790	80.50	75.8	-5.84
2021/11/8	5600	Head	50	1113	7630	690	3.920	83.40	78.4	-6.00
2021/11/9	5750	Head	50	1113	7630	690	3.750	80.00	75	-6.25
2021/11/10	750	Head	50	1087	7630	690	0.406	8.36	8.12	-2.87
2021/11/11	835	Head	50	4d258	7630	690	0.499	9.44	9.98	5.72
2021/11/12	1750	Head	50	1090	7630	690	1.840	36.40	36.8	1.10
2021/11/13	1900	Head	50	5d170	7630	690	2.030	39.00	40.6	4.10
2021/11/14	2450	Head	50	908	7630	690	2.430	52.80	48.6	-7.95
2021/11/15	2600	Head	50	1061	7630	690	2.670	56.60	53.4	-5.65
2021/11/17	3500	Head	50	1037	7630	690	3.150	68.00	63	-7.35
2021/11/18	3700	Head	50	1008	7630	690	3.220	67.60	64.4	-4.73
2021/11/20	3900	Head	50	1048	3935	1650	3.290	68.90	65.8	-4.50
2021/11/21	5250	Head	50	1113	7630	690	3.710	80.50	74.2	-7.83
2021/11/22	5600	Head	50	1113	7630	690	3.850	83.40	77	-7.67
2021/11/23	5750	Head	50	1113	7630	690	3.780	80.00	75.6	-5.50
2021/12/15	1750	Head	50	1090	7630	690	1.800	36.40	36	-1.10
2021/12/17	3500	Head	50	1037	7630	690	3.290	68.00	65.8	-3.24
2021/12/17	3700	Head	50	1008	7630	690	3.110	67.60	62.2	-7.99
2021/12/17	3900	Head	50	1048	3935	1650	3.350	68.90	67	-2.76
2021/12/20	5250	Head	50	1113	7630	690	3.710	80.50	74.2	-7.83
2021/12/20	5750	Head	50	1113	7630	690	3.880	80.00	77.6	-3.00

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2021/10/27	750	Head	50	1087	7630	690	0.275	5.65	5.5	-2.65
2021/10/28	835	Head	50	4d258	7630	690	0.328	6.13	6.56	7.01
2021/10/29	1750	Head	50	1090	7630	690	0.994	19.20	19.88	3.54
2021/10/30	1900	Head	50	5d170	7630	690	1.040	20.30	20.8	2.46
2021/10/31	2450	Head	50	908	7630	690	1.130	24.20	22.6	-6.61
2021/11/1	2600	Head	50	1061	7630	690	1.170	25.10	23.4	-6.77
2021/11/3	3500	Head	50	1037	7630	690	1.230	25.40	24.6	-3.15
2021/11/4	3700	Head	50	1008	7630	690	1.270	24.40	25.4	4.10
2021/11/6	3900	Head	50	1048	3935	1650	1.180	23.70	23.6	-0.42
2021/11/7	5250	Head	50	1113	7630	690	1.150	23.10	23	-0.43
2021/11/8	5600	Head	50	1113	7630	690	1.250	23.80	25	5.04
2021/11/9	5750	Head	50	1113	7630	690	1.050	22.80	21	-7.89
2021/11/10	750	Head	50	1087	7630	690	0.268	5.65	5.36	-5.13
2021/11/11	835	Head	50	4d258	7630	690	0.326	6.13	6.52	6.36
2021/11/12	1750	Head	50	1090	7630	690	0.984	19.20	19.68	2.50
2021/11/13	1900	Head	50	5d170	7630	690	1.050	20.30	21	3.45
2021/11/14	2450	Head	50	908	7630	690	1.140	24.20	22.8	-5.79
2021/11/15	2600	Head	50	1061	7630	690	1.200	25.10	24	-4.38
2021/11/17	3500	Head	50	1037	7630	690	1.230	25.40	24.6	-3.15
2021/11/18	3700	Head	50	1008	7630	690	1.270	24.40	25.4	4.10
2021/11/20	3900	Head	50	1048	3935	1650	1.180	23.70	23.6	-0.42
2021/11/21	5250	Head	50	1113	7630	690	1.130	23.10	22.6	-2.16
2021/11/22	5600	Head	50	1113	7630	690	1.180	23.80	23.6	-0.84
2021/11/23	5750	Head	50	1113	7630	690	1.090	22.80	21.8	-4.39
2021/12/15	1750	Head	50	1090	7630	690	0.958	19.20	19.16	-0.21
2021/12/17	3500	Head	50	1037	7630	690	1.270	25.40	25.4	0.00
2021/12/17	3700	Head	50	1008	7630	690	1.170	24.40	23.4	-4.10
2021/12/17	3900	Head	50	1048	3935	1650	1.170	23.70	23.4	-1.27
2021/12/20	5250	Head	50	1113	7630	690	1.120	23.10	22.4	-3.03
2021/12/20	5750	Head	50	1113	7630	690	1.050	22.80	21	-7.89

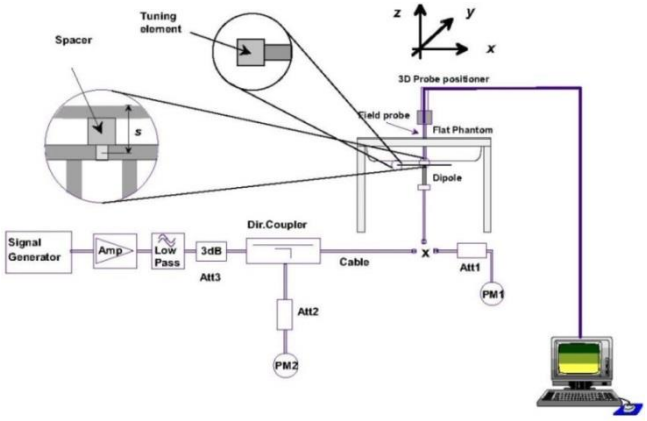


Fig 11.3.1 System Performance Check Setup

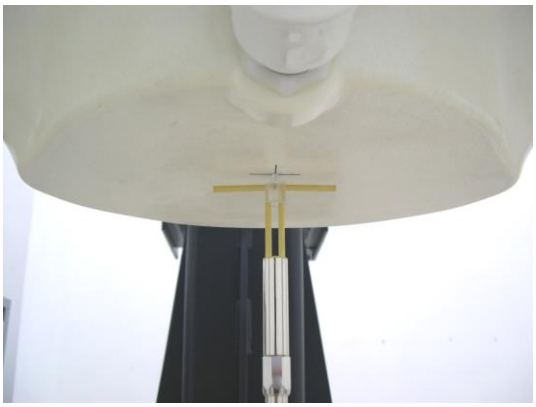


Fig 11.3.2 Setup Photo

13. RF Exposure Positions

13.1 Ear and handset reference point

Figure 12.1.1 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 12.1.2 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 12.1.3). 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 12.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

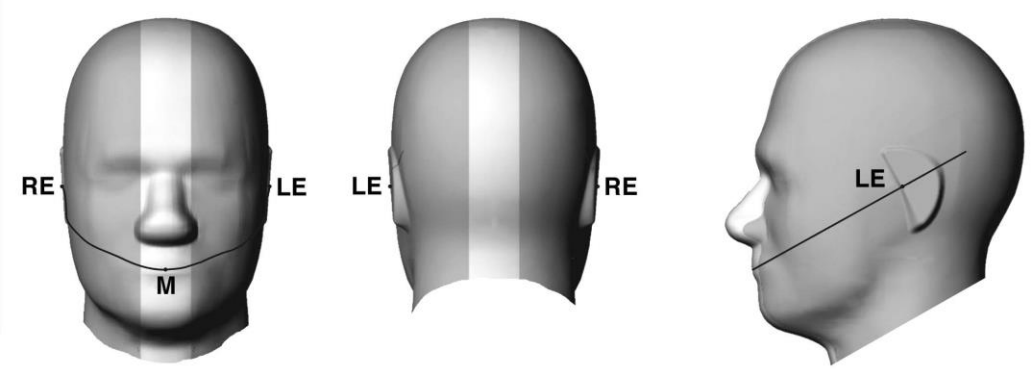


Fig 12.1.1 Front, back, and side views of SAM twin phantom

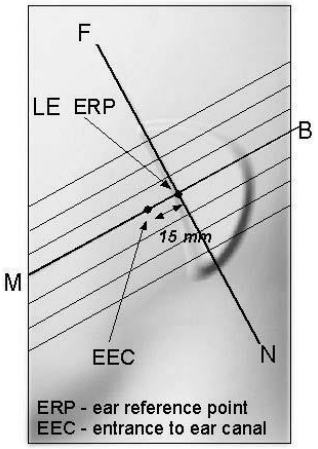


Fig 12.1.2 Close-up side view of phantom showing the ear region.

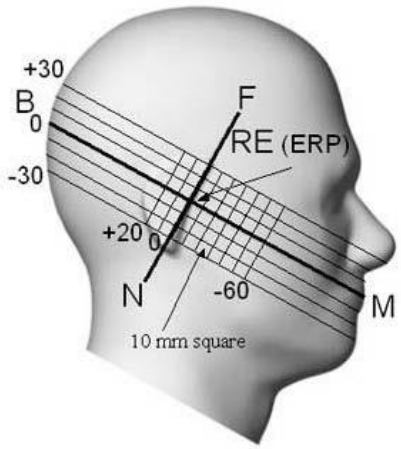


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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 wt of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width wb 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 12.2.1). 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 12.2.2), 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 12.2.3), 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 12.2.3. The actual rotation angles should be documented in the test report.

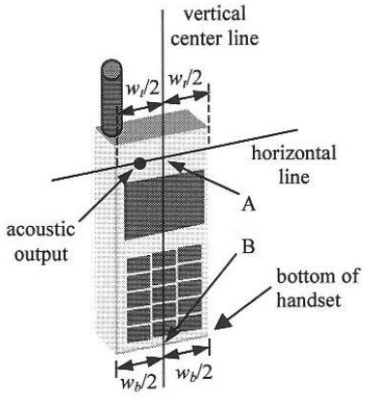


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

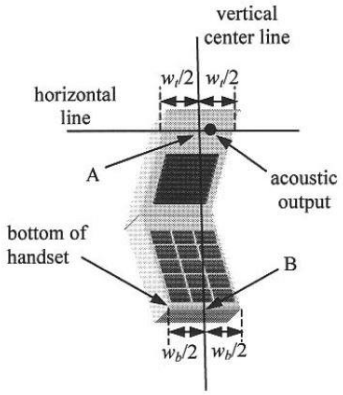


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

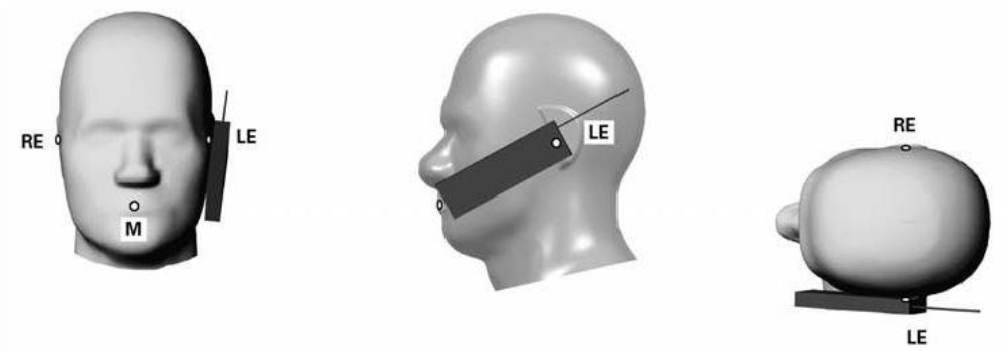


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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 12.3.1. 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

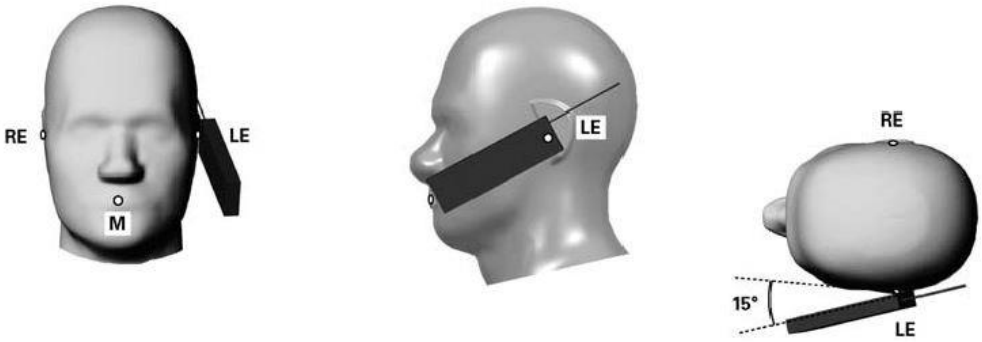


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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 12.4). 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 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-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

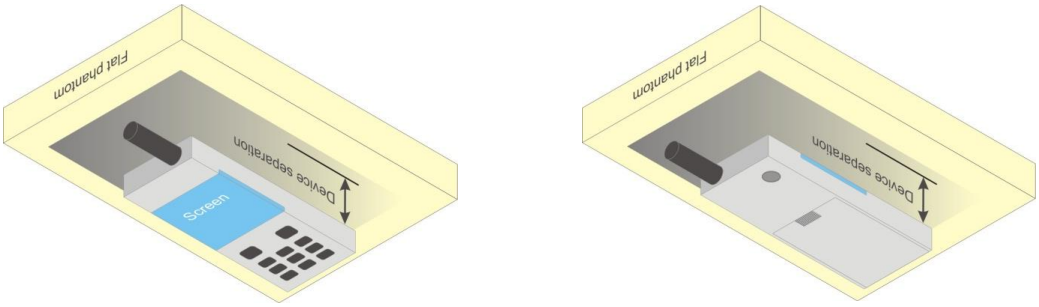


Fig 12.4 Body Worn Position

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 provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that 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 ≥ 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 form 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.

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. Therefore, the GPRS 3Tx slots for GSM850/GSM1900 at ANT0, and GPRS 4Tx slots for GSM850 at ANT1 are considered as the primary mode.
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 ≤ ¼ 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} (Note1, 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 Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_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 Δ_{NACK} = 30/15 with β_{hs} = 30/15 * β_c, and Δ_{CQI} = 24/15 with β_{hs} = 24/15 * β_c.

Note 3: CM = 1 for β_c/β_d =12/15, β_{hs}/β_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 β_c = 11/15 and β_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} (Note1)	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	209/225	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	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 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 Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c. For sub-test 5, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 5/15 with β_{hs} = 5/15 * β_c.

Note 2: CM = 1 for β_c/β_d =12/15, β_{hs}/β_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 β_c = 10/15 and β_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 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: β_c/β_d=2/15
      b). Subtest 2: β_c/β_d=12/15
      c). Subtest 3: β_c/β_d=15/8
      d). Subtest 4: β_c/β_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	Proces ses	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.		

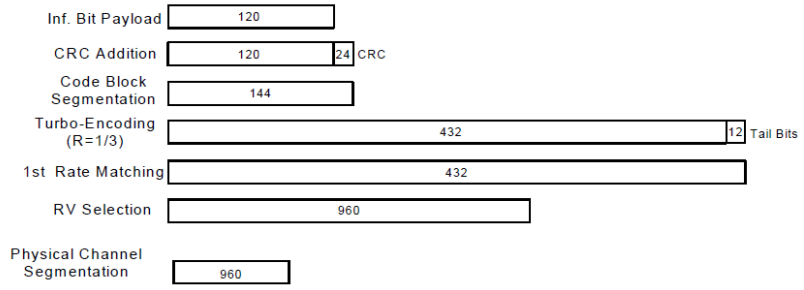


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

<WCDMA Conducted Power>

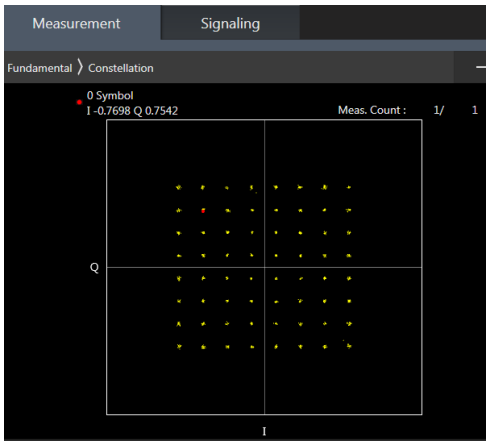
General Note:

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 ≤ ¼ 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 ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

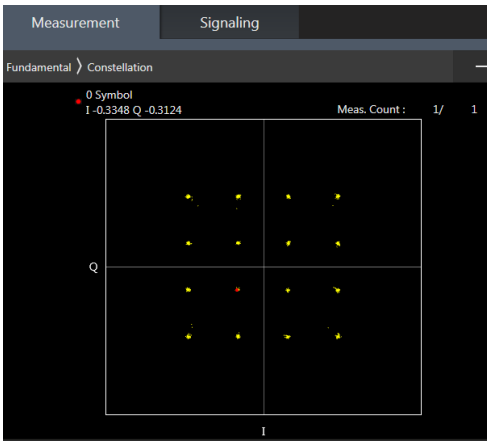
<LTE Conducted Power>

General Note:

1. Anritsu MT8820C 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 ½ 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 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; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 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 B4 / B5 / B17 / B38 SAR test was covered by 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 ≤ 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 2017 TCB workshop, for 64 QAM and 16 QAM 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 64QAM and 16QAM signal modulation are correct.



64QAM



16QAM

<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.

a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
b. "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
c. Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

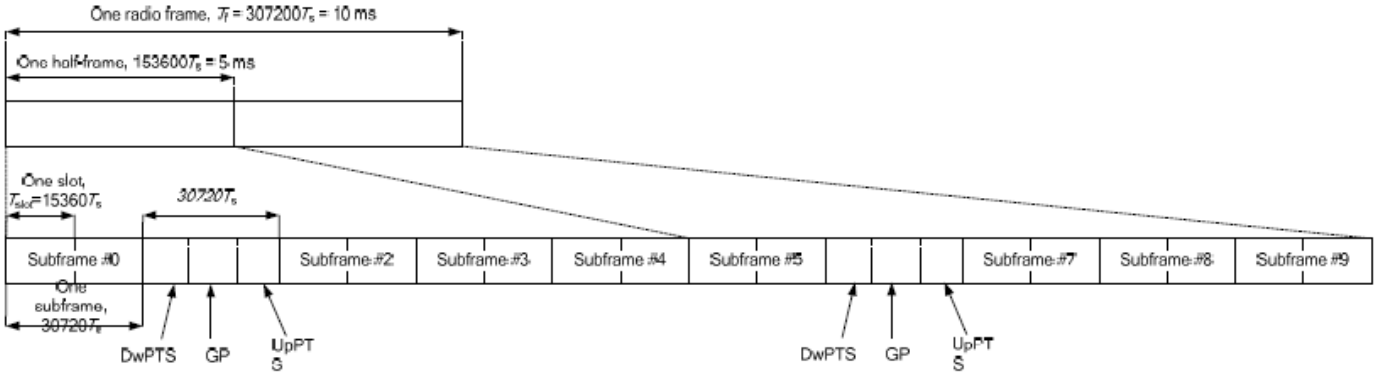


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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	D	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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
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 Band 38/41 Power class 2

i. Uplink-downlink configuration: 1. In a half-frame consisted of 5 subfames, uplink operation is in 2 uplink subframes and 1 special subframe.
ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
iii. 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%
iv. 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%
v. 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 Band 38/41 Power class 3

i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subfames, uplink operation is in 3 uplink subframes and 1 special subframe.
ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
iii. 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%
iv. 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%
v. 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 38/41	> 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>

General Note:

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.
3. The gray color table is covered by other combinations and no need to verify power.

2CC Downlink Carrier Aggregation			3CC Downlink Carrier Aggregation			4CC Downlink Carrier Aggregation			5CC Downlink Carrier Aggregation		
Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset
1	CA_2A-4A	3CC #1	1	CA_2A-4A-5A		1	CA_5A-7C-66A	5CC #1	1	CA_5A-7C-66A-66A	
2	CA_2A-5A	3CC #1	2	CA_2A-4A-7A		2	CA_5A-7A-66A-66A				
3	CA_2A-7A	3CC #2	3	CA_2A-4A-12A		3	CA_7C-66A-66A				
4	CA_2A-12A	3CC #3	4	CA_2A-5A-7A		4	CA_41C-42C				
5	CA_2A-17A		5	CA_2A-5A-66A							
6	CA_2A-66A	3CC #5	6	CA_2A-7C							
7	CA_4A-5A	3CC #1	7	CA_2A-7A-7A							
8	CA_4A-7A	3CC #2	8	CA_2A-12A-66A							
9	CA_4A-12A	3CC #3	9	CA_4A-7C							
10	CA_4A-17A		10	CA_5A-7C	5CC #1						
11	CA_5A-7A	3CC #4	11	CA_5A-7A-66A	4CC #2						
12	CA_5A-41A		12	CA_5A-66A-66A	4CC #2						
13	CA_5A-66A	3CC #5	13	CA_7C-66A	4CC #3						
14	CA_7B		14	CA_7A-66A-66A	4CC #2						
15	CA_7C	3CC #6	15	CA_26A-41C							
16	CA_7A-7A	3CC #7	16	CA_41C-42A							
17	CA_7A_26A		17	CA_41A-42C							
18	CA_7A_42A		18	CA_42D							
19	CA_7A_66A	4CC #2									
20	CA_12A-25A										
21	CA_12A-66A	3CC #8									
22	CA_26A-41A										
23	CA_38C										
24	CA_41C	3CC #15									
25	CA_41A-41A										
26	CA_41A-42A										
27	CA_42C	3CC #17									
28	CA_42A-42A										
29	CA_66B										
30	CA_66C										
31	CA_66A-66A	4CC #2									

LTE Carrier Aggregation Conducted Power (Downlink)

i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.

ii. 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.

iii. The device supports downlink five carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.

iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

v. For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size and offset will base on the PCC corresponding RB allocation.

vi. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.

vii. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lfloor \frac{BW_{Channel(1)} + BW_{Channel(2)} - 0.1\left|BW_{Channel(1)} - BW_{Channel(2)}\right|}{0.6} \right\rfloor 0.3 \ \ [\text{MHz}]$$

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Bands 4/7/38/41/42/66 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC Guidance, SAR for downlink 4x4 MIMO was not needed since the maximum average output power in 4x4 downlink MIMO mode was not > 0.25 dB higher than the maximum output power with downlink 4x4 MIMO inactive. When carrier aggregation is applicable, power measurements were performed with the downlink carrier aggregation and 4x4 DL MIMO active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

4X4 MIMO	Band
	LTE Band 4/7/38/41/42/66

LTE Carrier Aggregation Conducted Power (Uplink)

2CC Uplink Carrier Aggregation		
Number	Combination	Ant No.
1	7C	ANT0/1

<Intra-band>

General Note:

i. The device supports intra-band uplink carrier aggregation for LTE B7 with a maximum of two 20MHz 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. The device supports uplink carrier aggregation with a maximum of two 20MHz 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 the 3GPP requirement.

iii. According 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.

iv. According 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.

v. Additional SAR measurement for LTE UL CA whit 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.

<Inter-band uplink carrier aggregation consideration>

LTE Uplink CA	2CC Uplink Carrier Aggregation	
Combination	Band&Ant No.	Band&Ant No.
4A-5A	LTE B4:ANT0/1	LTE B5: ANT1/0
4A-7A	LTE B4: ANT0/1	LTE B7: ANT1/0
5A-7A	LTE B7: ANT0/1	LTE B5: ANT1/0

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, for SAR (transmit frequency ≤ 6GHz). 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. In Part 1 Report, simultaneous transmission compliance was evaluated with other Radios (WLAN or BT) using standalone LTE SAR mode.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n5 / n7 / n38 / n66 / n77 / n78 is NSA mode.
2. 5G NR n7 / n38 / 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-QPSK and the reported SAR for the DFT-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. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.
5. 5G NR n78 supports HPUE, HPUE power and SAR testing performed separately.
6. 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.
7. 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time.
8. 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.
9. 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.

<3GPP 38.101 MPR for EN-DC>

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	≤ 3.5[1]	≤ 1.2[1]	≤ 0.2[1]
		≤ 0.5[2]	≤ 0.5[2]	0[2]
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
	256 QAM	≤ 4.5		
CP-OFDM	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		

FR 1	ENDC	4G UL	5G-NR UL
n5	DC_66A-n5A	Ant 1	Ant 0
	DC_7A-n5A	Ant 1	Ant 0
n7	DC_2A-n7A	Ant 0	Ant 1
	DC_5A-n7A	Ant 0	Ant 1
	DC_66A-n7A	Ant 0	Ant 1
n66	DC_2A-n66A	Ant 0	Ant 1
	DC_5A-n66A	Ant 0	Ant 1
	DC_7A-n66A	Ant 0	Ant 1
n77	DC_41A-n77A	Ant 0/Ant 1	Ant 2
n78	DC_2A-n78A	Ant 0/Ant 1	Ant 2
	DC_4A-n78A	Ant 0/Ant 1	Ant 2
	DC_5A-n78A	Ant 0/Ant 1	Ant 2
	DC_7A-n78A	Ant 0/Ant 1	Ant 2
	DC_38A-n78A	Ant 0/Ant 1	Ant 2
	DC_41A-n78A	Ant 0/Ant 1	Ant 2
	DC_66A-n78A	Ant 0/Ant 1	Ant 2

<WLAN Conducted Power>

General Note:

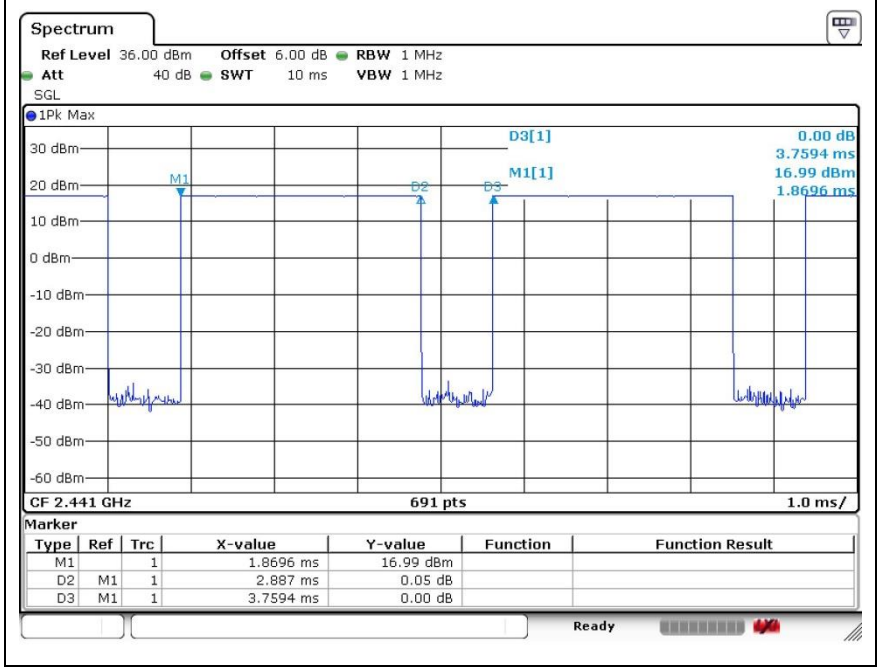
1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. 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.
2. 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).
3. 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.
4. 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.
5. 802.11ax supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
6. The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

<2.4GHz Bluetooth>

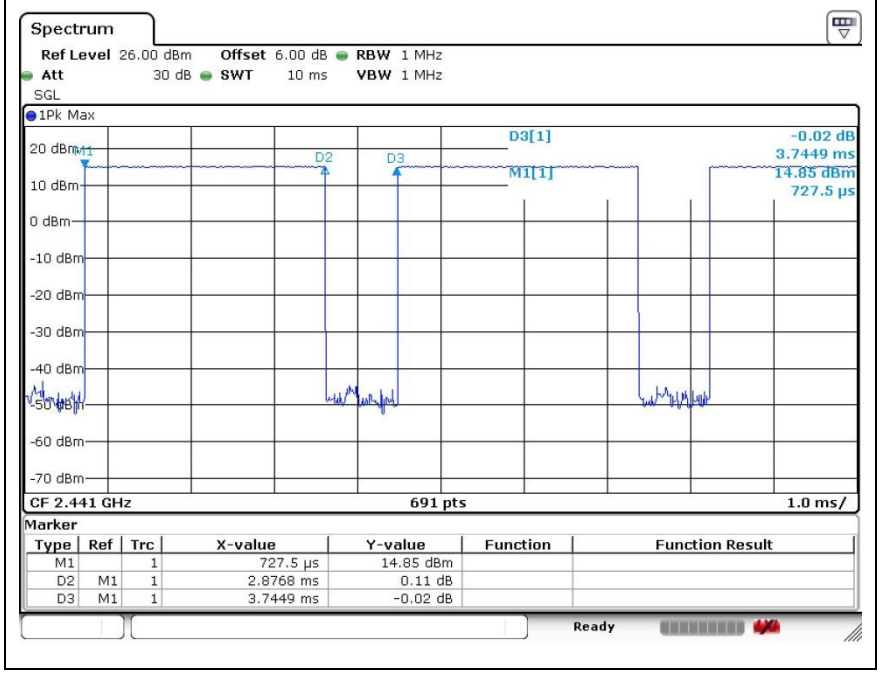
General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.79 % for ANT4, and 76.82 % for ANT6 as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to100% for Bluetooth reported SAR calculation

Bluetooth time-domain plot for ANT4



Bluetooth time-domain plot for ANT6



15. Antenna Location

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

16. SAR Test Results

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 BT/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 WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
   d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
   e. 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.
   f. 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 ≥ 0.8W/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. There are two different types of EUT. They are single SIM card mobile and dual SIM card mobile. The others are the same including circuit design, PCB board, structure and all components. It is special to declare. After pre-scan two types of EUT, we found test result of the sample that dual SIM was the worst, so we chose dual SIM card mobile to perform all tests.
5. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.
6. The device implements the power management 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.
7. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head and Handheld. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and Handheld.
8. For some WWAN bands, sensor on reduced power level is higher than hotspot reduced power level, so front/back sensor on SAR can represent hotspot conservatively.
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 WCDMA, LTE and 5GNR 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 can be referred to section 18 and appendix F.
10. This device supports HPUE for LTE Band 38 with class 2 level, HPUE power have been measured separately. 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 we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
11. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.

12. 5GNR n78 supports HPUE, HPUE power and SAR testing performed separately.
13. 5GNR n78 HUPE with higher power, 5GNR n78 HUPE SAR can represent power class 3 level SAR.
14. 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.
15. 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time.
16. 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.
17. 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.
18. This device supports 5GNR FR1 bands, including NSA mode and SA mode. NSA and SA mode performed SAR separately.
19. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, 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 GSM850/1900, WCDMA Band II/IV/V, LTE Band 2/4/7/25/66/38/41/42/43/48, 5GNR n7/n66/n38/n77/n78, WLAN2.4GHz/5.2GHz/5.3GHz/5.5GHz/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.

GSM Note:

1. 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. Therefore, the GPRS 3Tx slots for GSM850/GSM1900 at ANT0, and GPRS 4Tx slots for GSM850 at ANT1 are considered as the primary mode.
2. 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 ≤ ¼ dB higher than the primary mode, 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 ≤ ¼ 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 ¼ 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 ½ 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 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; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B17 / B26 / B38 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 B4 / B5 / B17 / B38 SAR test was covered by LTE 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 ≤ 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 ½ dB higher than the same configuration in PI/2 BPSK, 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 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
   f. For 5G FR1 n5/n7/n38/n66/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.
6. 802.11ax supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
7. The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

SRS (Sounding Reference Signal) description：

If one or more reive antennas areused as SRS as dedicated antennas,i.e., the antenna(s) is used for receive and Sound Reference Signal transmission (SRS) only (not traffic transmission), then the SAR measurement at Plimit for SAR as dedicated antenna(s) can be performed using FTM mode with CW modulation (as SRS could operate at very low duty cycle in online mode). Reported SAR for SRS dedicated antenna can be calculated by scaling the measured SAR at Plimit to a Tx power corresponding to worst-case SRS duty cycle * Pmax, then reported SAR for SRS = measured SAR @ Plimit * 10^[(Pmax_dBm + 10*log10(duty_cycle) – Plimit_dBm)/10]. The worst-case SRS duty cycle is 10% (Declared by Manufacturer).

DSI status description：

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

This WWAN 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
Head SAR-Standalone	DSI 2
Head SAR-Simultaneous	DSI 2
Body worn Mode SAR-Standalone	DSI 3
Body worn Mode SAR- Simultaneous	DSI 3
Hotspot Mode SAR	DSI 3
Extremity(Handheld) SAR-Standalone	DSI 6
Extremity(Handheld) SAR- Simultaneous	DSI 6
Sensor off SAR	DSI 4

16.1 Head SAR

Plot No.	Band	BW (MHz)	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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																	
	LTE Band 12(17)	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	22.93	24.00	1.279	0.02	0.162	0.207
	LTE Band 12(17)	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	22.92	24.00	1.282	-0.16	0.132	0.169
	LTE Band 12(17)	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	22.93	24.00	1.279	0.06	0.078	0.100
	LTE Band 12(17)	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	22.92	24.00	1.282	0.04	0.064	0.082
	LTE Band 12(17)	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	22.93	24.00	1.279	-0.13	0.098	0.125
	LTE Band 12(17)	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	22.92	24.00	1.282	-0.15	0.077	0.099
	LTE Band 12(17)	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	22.93	24.00	1.279	0.07	0.107	0.137
	LTE Band 12(17)	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	22.92	24.00	1.282	0.06	0.082	0.105
	LTE Band 12(17)	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	22.67	24.00	1.358	0.01	0.444	0.603
	LTE Band 12(17)	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	22.65	24.00	1.365	0.06	0.350	0.478
	LTE Band 12(17)	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	22.67	24.00	1.358	0.07	0.382	0.519
	LTE Band 12(17)	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	22.65	24.00	1.365	0.16	0.305	0.416
01	LTE Band 12(17)	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	22.67	24.00	1.358	0.13	0.734	**0.997**
	LTE Band 12(17)	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	22.65	24.00	1.365	0.1	0.576	0.786
	LTE Band 12(17)	10M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	22.63	24.00	1.371	0.05	0.576	0.790
	LTE Band 12(17)	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	22.67	24.00	1.358	0.06	0.604	0.820
	LTE Band 12(17)	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	22.65	24.00	1.365	0.05	0.483	0.659
	LTE Band 12(17)	10M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	22.63	24.00	1.371	0.06	0.471	0.646
	LTE Band 12(17)	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2 Simultaneous	23095	707.5	22.67	23.50	1.211	0.13	0.734	0.889
	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 2	23230	782	23.22	24.00	1.197	0.03	0.174	0.208
	LTE Band 13	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	DSI 2	23230	782	22.93	24.00	1.279	-0.15	0.144	0.184
	LTE Band 13	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 2	23230	782	23.22	24.00	1.197	-0.18	0.100	0.120
	LTE Band 13	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	DSI 2	23230	782	22.93	24.00	1.279	-0.04	0.083	0.106
	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	23230	782	23.22	24.00	1.197	-0.13	0.149	0.178
	LTE Band 13	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	DSI 2	23230	782	22.93	24.00	1.279	-0.05	0.116	0.148
	LTE Band 13	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 2	23230	782	23.22	24.00	1.197	0.09	0.095	0.114
	LTE Band 13	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	DSI 2	23230	782	22.93	24.00	1.279	0.08	0.077	0.099
	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	23230	782	22.48	23.00	1.127	0.18	0.462	0.521
	LTE Band 13	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI 2	23230	782	22.19	23.00	1.205	-0.03	0.412	0.496
	LTE Band 13	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	23230	782	22.48	23.00	1.127	0.02	0.474	0.534
	LTE Band 13	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI 2	23230	782	22.19	23.00	1.205	0.03	0.414	0.499
02	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	23230	782	22.48	23.00	1.127	-0.09	0.737	**0.831**
	LTE Band 13	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 2	23230	782	22.19	23.00	1.205	0.07	0.659	0.794
	LTE Band 13	10M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 2	23230	782	22.11	23.00	1.227	-0.17	0.652	0.800
	LTE Band 13	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 2	23230	782	22.48	23.00	1.127	-0.14	0.697	0.786
	LTE Band 13	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI 2	23230	782	22.19	23.00	1.205	0.02	0.657	0.792

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
							835MHz											
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 0	DSI 2	189	836.4	28.28	29.50	1.324	0.13	0.222	0.294
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 0	DSI 2	189	836.4	28.28	29.50	1.324	-0.08	0.146	0.193
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Left Cheek	0mm	Ant 0	DSI 2	189	836.4	28.28	29.50	1.324	0.01	0.127	0.168
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Left Tilted	0mm	Ant 0	DSI 2	189	836.4	28.28	29.50	1.324	0.04	0.113	0.150
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	189	836.4	25.29	26.50	1.321	0.12	0.599	0.791
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 1	DSI 2	189	836.4	25.29	26.50	1.321	-0.1	0.551	0.728
03	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 2	189	836.4	25.29	26.50	1.321	-0.01	0.940	**1.242**
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 2	128	824.2	25.11	26.50	1.377	0.12	0.689	0.949
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 2	251	848.8	25.19	26.50	1.352	-0.07	0.898	1.214
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 1	DSI 2	189	836.4	25.29	26.50	1.321	-0.13	0.934	1.234
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 1	DSI 2	128	824.2	25.11	26.50	1.377	-0.09	0.641	0.883
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 1	DSI 2	251	848.8	25.19	26.50	1.352	0.03	0.826	1.117
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 2 Simultaneous	189	836.4	23.39	24.50	1.291	-0.19	0.752	0.971
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	4182	836.4	23.99	25.00	1.262	0.07	0.183	0.231
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	4182	836.4	23.99	25.00	1.262	0.03	0.112	0.141
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	4182	836.4	23.99	25.00	1.262	0.19	0.120	0.151
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	4182	836.4	23.99	25.00	1.262	-0.11	0.091	0.115
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4182	836.4	23.79	24.50	1.178	0.02	0.683	0.804
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4132	826.4	23.67	24.50	1.211	-0.07	0.683	0.827
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4233	846.6	23.74	24.50	1.191	0.01	0.651	0.775
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	4182	836.4	23.79	24.50	1.178	-0.14	0.660	0.777
04	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	4182	836.4	23.79	24.50	1.178	0.05	0.983	**1.158**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	4132	826.4	23.67	24.50	1.211	0.15	0.944	1.143
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	4233	846.6	23.74	24.50	1.191	0.07	0.891	1.061
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	4182	836.4	23.79	24.50	1.178	0.07	0.891	1.049
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	4132	826.4	23.67	24.50	1.211	0.09	0.922	1.116
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	4233	846.6	23.74	24.50	1.191	0.04	0.883	1.052
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2 Simultaneous	4182	836.4	22.90	23.50	1.148	0.19	0.741	0.851
	LTE Band 26(5)	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	22.61	24.00	1.377	-0.03	0.213	0.293
	LTE Band 26(5)	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	22.57	24.00	1.390	-0.03	0.172	0.239
	LTE Band 26(5)	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	22.61	24.00	1.377	-0.1	0.098	0.135
	LTE Band 26(5)	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	22.57	24.00	1.390	0.15	0.078	0.108
	LTE Band 26(5)	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	22.61	24.00	1.377	-0.07	0.147	0.202
	LTE Band 26(5)	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	22.57	24.00	1.390	-0.12	0.125	0.174
	LTE Band 26(5)	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	22.61	24.00	1.377	-0.08	0.110	0.151
	LTE Band 26(5)	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	22.57	24.00	1.390	0.08	0.094	0.131
	LTE Band 26(5)	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	22.40	23.40	1.259	-0.04	0.728	0.916
	LTE Band 26(5)	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	22.38	23.40	1.265	0.07	0.557	0.704
	LTE Band 26(5)	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	22.33	23.40	1.279	0.05	0.558	0.714
	LTE Band 26(5)	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	22.40	23.40	1.259	0.04	0.666	0.838
	LTE Band 26(5)	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	22.38	23.40	1.265	0.02	0.513	0.649
	LTE Band 26(5)	15M	QPSK	75	0	-	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	22.33	23.40	1.279	0.08	0.517	0.661
05	LTE Band 26(5)	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	22.40	23.40	1.259	-0.15	0.994	**1.251**
	LTE Band 26(5)	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	22.38	23.40	1.265	0.07	0.818	1.035
	LTE Band 26(5)	15M	QPSK	75	0	-	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	22.33	23.40	1.279	0.14	0.825	1.055
	LTE Band 26(5)	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	22.40	23.40	1.259	0.11	0.985	1.240
	LTE Band 26(5)	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	22.38	23.40	1.265	-0.17	0.742	0.938
	LTE Band 26(5)	15M	QPSK	75	0	-	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	22.33	23.40	1.279	0.14	0.742	0.949
	LTE Band 26(5)	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2 Simultaneous	26865	831.5	22.21	23.10	1.227	-0.04	0.738	0.906
06	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	167300	836.5	23.48	24.00	1.127	0.05	0.152	**0.171**
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	167300	836.5	23.36	24.00	1.159	0.14	0.129	0.149

	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	167300	836.5	23.48	24.00	1.127	-0.07	0.055	0.062
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	167300	836.5	23.36	24.00	1.159	-0.12	0.039	0.045
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	167300	836.5	23.48	24.00	1.127	0.09	0.108	0.122
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	167300	836.5	23.36	24.00	1.159	0.02	0.095	0.110
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	167300	836.5	23.48	24.00	1.127	0.08	0.049	0.055
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	167300	836.5	23.36	24.00	1.159	-0.11	0.031	0.036

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
1750MHz																		
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	1413	1732.6	24.23	25.00	1.194	-0.07	0.066	0.079
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	1413	1732.6	24.23	25.00	1.194	0.07	0.061	0.073
07	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	1413	1732.6	24.23	25.00	1.194	0.11	0.084	**0.100**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	1413	1732.6	24.23	25.00	1.194	0.13	0.067	0.080
	LTE Band 66(4)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	23.15	24.00	1.216	0.15	0.041	0.050
	LTE Band 66(4)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	22.05	23.00	1.245	-0.19	0.030	0.037
	LTE Band 66(4)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	132322	1745	23.15	24.00	1.216	-0.05	0.043	0.052
	LTE Band 66(4)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	132322	1745	22.05	23.00	1.245	0.09	0.036	0.045
	LTE Band 66(4)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	23.15	24.00	1.216	-0.11	0.051	0.062
	LTE Band 66(4)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	22.05	23.00	1.245	0.02	0.032	0.040
	LTE Band 66(4)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	132322	1745	23.15	24.00	1.216	0.06	0.037	0.045
	LTE Band 66(4)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	132322	1745	22.05	23.00	1.245	0.03	0.035	0.044
	LTE Band 66(4)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	16.74	17.70	1.247	0.13	0.464	0.579
	LTE Band 66(4)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	16.71	17.70	1.256	0.02	0.385	0.484
	LTE Band 66(4)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	16.74	17.70	1.247	-0.03	0.566	0.706
	LTE Band 66(4)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	16.71	17.70	1.256	0.02	0.458	0.575
	LTE Band 66(4)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	16.74	17.70	1.247	0.05	0.914	1.140
	LTE Band 66(4)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132072	1720	16.68	17.70	1.265	0.07	0.784	0.992
	LTE Band 66(4)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132572	1770	16.69	17.70	1.262	0.04	0.979	1.235
	LTE Band 66(4)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	16.71	17.70	1.256	-0.03	0.747	0.938
	LTE Band 66(4)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	132072	1720	16.57	17.70	1.297	-0.04	0.631	0.819
	LTE Band 66(4)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	132572	1770	16.51	17.70	1.315	0.16	0.810	1.065
	LTE Band 66(4)	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	16.69	17.70	1.262	0.01	0.808	1.020
	LTE Band 66(4)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	16.74	17.70	1.247	0.06	0.875	1.091
	LTE Band 66(4)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	132072	1720	16.68	17.70	1.265	0.12	0.770	0.974
08	LTE Band 66(4)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	132572	1770	16.69	17.70	1.262	0.03	0.989	**1.248**
	LTE Band 66(4)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	16.71	17.70	1.256	-0.05	0.731	0.918
	LTE Band 66(4)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	132072	1720	16.57	17.70	1.297	0.05	0.621	0.806
	LTE Band 66(4)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	132572	1770	16.51	17.70	1.315	-0.02	0.794	1.044
	LTE Band 66(4)	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	16.69	17.70	1.262	-0.02	0.792	0.999
	LTE Band 66(4)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2 Simultaneous	132572	1770	15.21	16.20	1.256	-0.06	0.735	0.923
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	16.21	17.40	1.315	0.06	0.458	0.602
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	16.12	17.40	1.343	0.02	0.476	0.639
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	16.21	17.40	1.315	0.17	0.554	0.729
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	16.12	17.40	1.343	0.02	0.568	0.763
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	16.21	17.40	1.315	0.18	0.860	1.131
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	16.12	17.40	1.343	0.01	0.888	1.192
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	16.13	17.40	1.340	0.06	0.894	1.198
09	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	16.21	17.40	1.315	0.03	0.956	**1.257**
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	16.12	17.40	1.343	0.02	0.932	1.251
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	16.13	17.40	1.340	0.03	0.906	1.214
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2 Simultaneous	349000	1745	15.29	16.40	1.291	0.03	0.749	0.967

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
1900MHz																		
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 0	DSI 2	661	1880	25.35	26.50	1.303	0.07	0.034	0.044
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 0	DSI 2	661	1880	25.35	26.50	1.303	0.08	0.031	0.040
10	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Left Cheek	0mm	Ant 0	DSI 2	661	1880	25.35	26.50	1.303	0.08	0.039	**0.051**
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Left Tilted	0mm	Ant 0	DSI 2	661	1880	25.35	26.50	1.303	0.03	0.031	0.040
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	9400	1880	24.24	25.00	1.191	-0.15	0.055	0.066
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	9400	1880	24.24	25.00	1.191	0.09	0.037	0.044
11	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	9400	1880	24.24	25.00	1.191	-0.06	0.073	**0.087**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	9400	1880	24.24	25.00	1.191	-0.03	0.053	0.063
	LTE Band 25(2)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	26340	1880	22.89	24.00	1.291	0.05	0.054	0.070
	LTE Band 25(2)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	26340	1880	22.86	24.00	1.300	0.08	0.039	0.051
	LTE Band 25(2)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	26340	1880	22.89	24.00	1.291	0.08	0.046	0.059
	LTE Band 25(2)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	26340	1880	22.86	24.00	1.300	0.03	0.032	0.042
	LTE Band 25(2)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	26340	1880	22.89	24.00	1.291	-0.08	0.066	0.085
	LTE Band 25(2)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	26340	1880	22.86	24.00	1.300	0.03	0.059	0.077
	LTE Band 25(2)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	26340	1880	22.89	24.00	1.291	0.15	0.021	0.027
	LTE Band 25(2)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	26340	1880	22.86	24.00	1.300	0.03	0.011	0.014
	LTE Band 25(2)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	17.18	18.10	1.236	0.08	0.381	0.471
	LTE Band 25(2)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	17.11	18.10	1.256	0.04	0.315	0.396
	LTE Band 25(2)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	17.18	18.10	1.236	-0.07	0.452	0.559
	LTE Band 25(2)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	17.11	18.10	1.256	-0.16	0.374	0.470
	LTE Band 25(2)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	26340	1880	17.18	18.10	1.236	0.04	0.809	1.000
	LTE Band 25(2)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	26140	1860	17.13	18.10	1.250	0.07	0.985	1.232
	LTE Band 25(2)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	26590	1905	17.11	18.10	1.256	0.04	0.745	0.936
	LTE Band 25(2)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	26340	1880	17.11	18.10	1.256	0.07	0.630	0.791
	LTE Band 25(2)	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 1	DSI 2	26340	1880	17.09	18.10	1.262	-0.13	0.643	0.811
	LTE Band 25(2)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	26340	1880	17.18	18.10	1.236	0.17	0.848	1.048
12	LTE Band 25(2)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	26140	1860	17.13	18.10	1.250	0.08	0.997	**1.247**
	LTE Band 25(2)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	26590	1905	17.11	18.10	1.256	0.12	0.706	0.887
	LTE Band 25(2)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	26340	1880	17.11	18.10	1.256	-0.13	0.672	0.844
	LTE Band 25(2)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	26140	1860	17.02	18.10	1.282	-0.12	0.794	1.018
	LTE Band 25(2)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	26590	1905	17.09	18.10	1.262	0.08	0.577	0.728
	LTE Band 25(2)	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 1	DSI 2	26340	1880	17.09	18.10	1.262	0.07	0.667	0.842
	LTE Band 25(2)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2 Simultaneous	26140	1860	16.24	17.10	1.219	0.18	0.737	0.898

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	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)
								2600MHz												
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	21100	2535	23.46	24.00	1.132	-	-	0.15	0.111	0.126
	LTE Band 7C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	21100+ 21298	2535+ 2554.8	23.32	24.00	1.169	-	-	0.03	0.089	0.104
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	21100	2535	23.44	24.00	1.138	-	-	-0.16	0.087	0.099
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	21100	2535	23.46	24.00	1.132	-	-	0.08	0.038	0.043
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	21100	2535	23.44	24.00	1.138	-	-	0.03	0.032	0.036
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	21100	2535	23.46	24.00	1.132	-	-	-0.18	0.050	0.057
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	21100	2535	23.44	24.00	1.138	-	-	0.03	0.075	0.085
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	21100	2535	23.46	24.00	1.132	-	-	-0.05	0.069	0.078
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	21100	2535	23.44	24.00	1.138	-	-	0.17	0.069	0.078
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	17.67	18.40	1.183	-	-	-0.08	0.608	0.719
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	17.59	18.40	1.205	-	-	0.06	0.501	0.604
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	17.67	18.40	1.183	-	-	0.04	0.651	0.770
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	17.59	18.40	1.205	-	-	0.08	0.524	0.631
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	17.67	18.40	1.183	-	-	0.09	0.896	1.060
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	20850	2510	17.45	18.40	1.245	-	-	0.04	0.939	1.169
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	21350	2560	17.53	18.40	1.222	-	-	0.04	0.945	1.155
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	17.59	18.40	1.205	-	-	0.13	0.749	0.903
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	20850	2510	17.46	18.40	1.242	-	-	-0.05	0.801	0.995
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	21350	2560	17.43	18.40	1.250	-	-	0.08	0.778	0.973
	LTE Band 7	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	17.57	18.40	1.211	-	-	-0.07	0.746	0.903
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	17.67	18.40	1.183	-	-	0.06	0.988	1.169
13	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	20850	2510	17.45	18.40	1.245	-	-	0.15	1.000	**1.245**
	LTE Band 7C	20M	QPSK	1	99	-	Left Tilted	0mm	Ant 1	DSI 2	20850+ 21048	2510+ 2529.8	17.31	18.40	1.285	-	-	0.03	0.781	1.004
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	21350	2560	17.53	18.40	1.222	-	-	-0.09	0.974	1.190
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	17.59	18.40	1.205	-	-	0.12	0.801	0.965
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	20850	2510	17.46	18.40	1.242	-	-	-0.09	0.867	1.077
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	21350	2560	17.43	18.40	1.250	-	-	0.18	0.876	1.095
	LTE Band 7	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	17.57	18.40	1.211	-	-	0.07	0.804	0.973
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2 Simultaneous	20850	2510	16.41	17.40	1.256	-	-	0.02	0.730	0.917
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	38000	2595	23.49	24.00	1.125	62.9	1.006	0.021	0.075	0.085
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	38000	2595	23.43	24.00	1.140	62.9	1.006	0.04	0.074	0.085
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	38000	2595	23.49	24.00	1.125	62.9	1.006	0.08	0.037	0.042
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	38000	2595	23.43	24.00	1.140	62.9	1.006	0.03	0.034	0.039
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	38000	2595	23.49	24.00	1.125	62.9	1.006	0.09	0.044	0.050
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	38000	2595	23.43	24.00	1.140	62.9	1.006	0.05	0.042	0.048
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	38000	2595	23.49	24.00	1.125	62.9	1.006	0.04	0.039	0.044
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	38000	2595	23.43	24.00	1.140	62.9	1.006	-0.14	0.043	0.049
	LTE Band 38_HPUE	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	38000	2595	26.41	27.00	1.146	42.9	1.009	-0.08	0.094	0.109
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	38000	2595	18.87	19.50	1.156	62.9	1.006	0.05	0.397	0.462
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	38000	2595	18.80	19.50	1.175	62.9	1.006	0.11	0.405	0.479
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	38000	2595	18.87	19.50	1.156	62.9	1.006	0.04	0.473	0.550
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	38000	2595	18.80	19.50	1.175	62.9	1.006	-0.02	0.489	0.578
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	38000	2595	18.87	19.50	1.156	62.9	1.006	0.04	0.565	0.657
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	37850	2580	18.74	19.50	1.191	62.9	1.006	-0.14	0.503	0.603
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	38150	2610	18.75	19.50	1.189	62.9	1.006	0.09	0.603	0.721
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	38000	2595	18.80	19.50	1.175	62.9	1.006	-0.08	0.573	0.677
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	37850	2580	18.59	19.50	1.233	62.9	1.006	0.01	0.516	0.640
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	38150	2610	18.49	19.50	1.262	62.9	1.006	0.05	0.622	0.790
	LTE Band 38	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 1	DSI 2	38000	2595	18.71	19.50	1.199	62.9	1.006	0.19	0.592	0.714
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	38000	2595	18.87	19.50	1.156	62.9	1.006	-0.16	0.723	0.841
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	37850	2580	18.74	19.50	1.191	62.9	1.006	-0.09	0.655	0.785

	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	38150	2610	18.75	19.50	1.189	62.9	1.006	0.08	0.791	0.946
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	38000	2595	18.80	19.50	1.175	62.9	1.006	0.04	0.739	0.873
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	37850	2580	18.59	19.50	1.233	62.9	1.006	0.04	0.666	0.826
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	38150	2610	18.49	19.50	1.262	62.9	1.006	0.01	0.867	1.101
	LTE Band 38	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 1	DSI 2	38000	2595	18.71	19.50	1.199	62.9	1.006	-0.06	0.772	0.932
14	LTE Band 38_HPUE	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	38150	2610	20.15	21.10	1.245	42.9	1.009	0.09	0.946	**1.188**
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2 Simultaneous	38150	2610	17.64	18.50	1.219	62.9	1.006	0.03	0.632	0.775
	LTE Band 38_HPUE	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2 Simultaneous	38150	2610	19.09	20.10	1.262	42.9	1.009	0.17	0.727	0.926
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	23.64	24.00	1.086	62.9	1.006	-0.07	0.078	0.085
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	23.35	24.00	1.161	62.9	1.006	-0.09	0.062	0.072
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	40620	2593	23.64	24.00	1.086	62.9	1.006	0.18	0.024	0.026
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	40620	2593	23.35	24.00	1.161	62.9	1.006	0.07	0.020	0.023
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	23.64	24.00	1.086	62.9	1.006	0.06	0.059	0.064
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	23.35	24.00	1.161	62.9	1.006	0.19	0.047	0.055
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	23.64	24.00	1.086	62.9	1.006	-0.07	0.053	0.058
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	23.35	24.00	1.161	62.9	1.006	-0.12	0.031	0.036
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	18.94	20.10	1.306	62.9	1.006	0.09	0.472	0.620
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	39750	2506	18.84	20.10	1.337	62.9	1.006	0.15	0.439	0.590
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	40185	2549.5	18.81	20.10	1.346	62.9	1.006	-0.05	0.424	0.574
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	41055	2636.5	18.82	20.10	1.343	62.9	1.006	0.17	0.498	0.673
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	41490	2680	18.74	20.10	1.368	62.9	1.006	0.07	0.513	0.706
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	18.91	20.10	1.315	62.9	1.006	0.04	0.391	0.517
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	18.84	20.10	1.337	62.9	1.006	0.11	0.420	0.565
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	18.94	20.10	1.306	62.9	1.006	-0.16	0.603	0.792
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	18.84	20.10	1.337	62.9	1.006	0.18	0.524	0.705
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	18.81	20.10	1.346	62.9	1.006	0.06	0.517	0.700
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	41055	2636.5	18.82	20.10	1.343	62.9	1.006	0.06	0.647	0.874
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	41490	2680	18.74	20.10	1.368	62.9	1.006	0.08	0.558	0.768
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	18.91	20.10	1.315	62.9	1.006	0.09	0.469	0.621
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	18.71	20.10	1.377	62.9	1.006	0.02	0.391	0.542
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	18.69	20.10	1.384	62.9	1.006	0.07	0.405	0.564
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	41055	2636.5	18.63	20.10	1.403	62.9	1.006	0.19	0.513	0.724
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	41490	2680	18.72	20.10	1.374	62.9	1.006	0.08	0.491	0.679
	LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	18.84	20.10	1.337	62.9	1.006	0.01	0.495	0.666
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	18.94	20.10	1.306	62.9	1.006	0.15	0.651	0.855
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	39750	2506	18.84	20.10	1.337	62.9	1.006	0.05	0.651	0.875
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	40185	2549.5	18.81	20.10	1.346	62.9	1.006	-0.08	0.603	0.816
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	41055	2636.5	18.82	20.10	1.343	62.9	1.006	0.06	0.710	0.959
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	41490	2680	18.74	20.10	1.368	62.9	1.006	-0.14	0.647	0.890
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	18.91	20.10	1.315	62.9	1.006	-0.04	0.532	0.704
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	39750	2506	18.71	20.10	1.377	62.9	1.006	0.11	0.550	0.762
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	40185	2549.5	18.69	20.10	1.384	62.9	1.006	-0.17	0.487	0.678
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	41055	2636.5	18.63	20.10	1.403	62.9	1.006	0.1	0.591	0.834
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	41490	2680	18.72	20.10	1.374	62.9	1.006	0.06	0.580	0.802
	LTE Band 41	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	18.84	20.10	1.337	62.9	1.006	0.1	0.588	0.791
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	18.94	20.10	1.306	62.9	1.006	-0.08	0.833	1.095
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	39750	2506	18.84	20.10	1.337	62.9	1.006	-0.09	0.789	1.061
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	40185	2549.5	18.81	20.10	1.346	62.9	1.006	-0.18	0.766	1.037
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	41055	2636.5	18.82	20.10	1.343	62.9	1.006	0.05	0.904	1.221
15	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	41490	2680	18.74	20.10	1.368	62.9	1.006	0.07	0.915	**1.259**
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	18.91	20.10	1.315	62.9	1.006	0.08	0.718	0.950
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	39750	2506	18.71	20.10	1.377	62.9	1.006	-0.06	0.655	0.907
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	40185	2549.5	18.69	20.10	1.384	62.9	1.006	0.03	0.640	0.891
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	41055	2636.5	18.63	20.10	1.403	62.9	1.006	0.06	0.792	1.118
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	41490	2680	18.72	20.10	1.374	62.9	1.006	0.1	0.774	1.070
	LTE Band 41	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	18.84	20.10	1.337	62.9	1.006	-0.07	0.755	1.015

	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2 Simultaneous	41490	2680	17.93	19.10	1.309	62.9	1.006	0.08	0.732	0.964
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	507000	2535	22.84	24.00	1.306	-	-	0.08	0.053	0.069
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	507000	2535	22.71	24.00	1.346	-	-	0.04	0.055	0.074
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	507000	2535	22.84	24.00	1.306	-	-	0.03	0.046	0.060
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	507000	2535	22.71	24.00	1.346	-	-	0.02	0.042	0.057
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	507000	2535	22.84	24.00	1.306	-	-	0.07	0.037	0.048
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	507000	2535	22.71	24.00	1.346	-	-	0.06	0.043	0.058
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	507000	2535	22.84	24.00	1.306	-	-	0.02	0.050	0.065
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	507000	2535	22.71	24.00	1.346	-	-	0.07	0.051	0.069
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	18.27	19.30	1.268	-	-	-0.01	0.552	0.700
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	18.22	19.30	1.282	-	-	0.08	0.530	0.680
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	18.27	19.30	1.268	-	-	0.04	0.652	0.827
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	18.22	19.30	1.282	-	-	0.13	0.576	0.739
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	18.25	19.30	1.274	-	-	-0.03	0.601	0.765
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	18.27	19.30	1.268	-	-	0.02	0.887	1.124
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	18.22	19.30	1.282	-	-	0.07	0.798	1.023
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	18.25	19.30	1.274	-	-	0.04	0.771	0.982
16	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	18.27	19.30	1.268	-	-	-0.02	0.991	**1.256**
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	18.22	19.30	1.282	-	-	0.09	0.955	1.225
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	18.25	19.30	1.274	-	-	0.13	0.947	1.206
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2 Simultaneous	507000	2535	17.23	18.30	1.279	-	-	-0.04	0.738	0.944
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	519000	2595	17.53	18.80	1.340	-	-	0.06	0.490	0.656
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	519000	2595	17.46	18.80	1.361	-	-	0.06	0.466	0.634
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	519000	2595	17.53	18.80	1.340	-	-	-0.06	0.626	0.839
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	519000	2595	17.46	18.80	1.361	-	-	-0.06	0.588	0.801
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	519000	2595	17.44	18.80	1.368	-	-	0.04	0.551	0.754
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	519000	2595	17.53	18.80	1.340	-	-	0.09	0.703	0.942
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	519000	2595	17.46	18.80	1.361	-	-	0.14	0.645	0.878
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	519000	2595	17.44	18.80	1.368	-	-	-0.09	0.601	0.822
17	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	519000	2595	17.53	18.80	1.340	-	-	0.02	0.920	**1.233**
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	519000	2595	17.46	18.80	1.361	-	-	0.07	0.865	1.178
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	519000	2595	17.44	18.80	1.368	-	-	0.05	0.811	1.109
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2 Simultaneous	519000	2595	16.73	17.80	1.279	-	-	0.05	0.748	0.957

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	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)
3500~3900MHz																				
18	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	42590	3500	22.03	23.00	1.250	62.9	1.006	0.01	0.687	**0.864**
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	42190	3460	21.93	23.00	1.279	62.9	1.006	0.03	0.611	0.786
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	42990	3540	21.83	23.00	1.309	62.9	1.006	0.01	0.633	0.834
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	42590	3500	21.56	22.00	1.107	62.9	1.006	0.08	0.576	0.641
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	42190	3460	21.46	22.00	1.132	62.9	1.006	0.04	0.521	0.594
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	42990	3540	21.36	22.00	1.159	62.9	1.006	0.12	0.549	0.640
	LTE Band 42 Part27Q	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	DSI 2	42590	3500	21.39	22.00	1.151	62.9	1.006	0.03	0.539	0.624
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	42590	3500	22.03	23.00	1.250	62.9	1.006	0.06	0.392	0.493
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	42590	3500	21.56	22.00	1.107	62.9	1.006	-0.14	0.311	0.346
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	42590	3500	22.03	23.00	1.250	62.9	1.006	-0.06	0.181	0.228
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	42590	3500	21.56	22.00	1.107	62.9	1.006	0.02	0.103	0.115
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	42590	3500	22.03	23.00	1.250	62.9	1.006	-0.06	0.151	0.190
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	42590	3500	21.56	22.00	1.107	62.9	1.006	0.18	0.092	0.102
19	LTE Band 48(42&43)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	56150	3641	23.04	24.00	1.247	62.9	1.006	0.02	0.567	**0.712**
	LTE Band 48(42&43)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	55340	3560	22.92	24.00	1.282	62.9	1.006	0.02	0.529	0.682
	LTE Band 48(42&43)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	55830	3609	22.92	24.00	1.282	62.9	1.006	0.02	0.542	0.699
	LTE Band 48(42&43)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	56640	3690	22.87	24.00	1.297	62.9	1.006	-0.12	0.511	0.667
	LTE Band 48(42&43)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	56150	3641	21.91	23.00	1.285	62.9	1.006	0.17	0.469	0.606
	LTE Band 48(42&43)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	55340	3560	21.82	23.00	1.312	62.9	1.006	-0.1	0.427	0.564
	LTE Band 48(42&43)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	55830	3609	21.90	23.00	1.288	62.9	1.006	0.05	0.448	0.581
	LTE Band 48(42&43)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	56640	3690	21.89	23.00	1.291	62.9	1.006	0.07	0.462	0.600
	LTE Band 48(42&43)	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	DSI 2	56150	3641	21.73	23.00	1.340	62.9	1.006	0.01	0.441	0.594
	LTE Band 48(42&43)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	56150	3641	23.04	24.00	1.247	62.9	1.006	-0.1	0.343	0.430
	LTE Band 48(42&43)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	56150	3641	21.91	23.00	1.285	62.9	1.006	-0.08	0.269	0.348
	LTE Band 48(42&43)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	56150	3641	23.04	24.00	1.247	62.9	1.006	-0.1	0.164	0.206
	LTE Band 48(42&43)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	56150	3641	21.91	23.00	1.285	62.9	1.006	0.05	0.114	0.147
	LTE Band 48(42&43)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	56150	3641	23.04	24.00	1.247	62.9	1.006	0.01	0.132	0.166
	LTE Band 48(42&43)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	56150	3641	21.91	23.00	1.285	62.9	1.006	0.11	0.088	0.114
20	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	656000	3840	20.46	21.70	1.330	-	-	0.07	0.929	**1.236**
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	656000	3840	20.20	21.70	1.413	-	-	0.02	0.839	1.185
	FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	656000	3840	20.11	21.70	1.442	-	-	0.07	0.821	1.184
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	656000	3840	20.46	21.70	1.330	-	-	-0.05	0.400	0.532
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	656000	3840	20.20	21.70	1.413	-	-	-0.01	0.398	0.562
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	656000	3840	20.46	21.70	1.330	-	-	0.08	0.281	0.374
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	656000	3840	20.20	21.70	1.413	-	-	0.04	0.260	0.367
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	656000	3840	20.46	21.70	1.330	-	-	0.13	0.167	0.222
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	656000	3840	20.20	21.70	1.413	-	-	-0.03	0.139	0.196
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2 Simultaneous	656000	3840	19.37	20.40	1.268	-	-	0.02	0.745	0.944
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	21.12	21.70	1.143	-	-	0.04	0.886	1.013
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	21.09	21.70	1.151	-	-	-0.02	0.993	1.143
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	21.11	21.70	1.146	-	-	0.09	0.831	0.952
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	633334	3500.01	21.12	21.70	1.143	-	-	0.13	0.644	0.736
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	633334	3500.01	21.09	21.70	1.151	-	-	-0.04	0.650	0.748
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	21.12	21.70	1.143	-	-	0.07	0.273	0.312
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	21.09	21.70	1.151	-	-	0.04	0.294	0.338
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	633334	3500.01	21.12	21.70	1.143	-	-	-0.02	0.247	0.282
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	633334	3500.01	21.09	21.70	1.151	-	-	0.09	0.266	0.306
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2 Simultaneous	633334	3500.01	19.85	20.40	1.135	-	-	0.13	0.729	0.827
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	650000	3750	20.91	22.00	1.285	-	-	-0.04	0.801	1.030
21	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	650000	3750	20.89	22.00	1.291	-	-	-0.06	0.956	**1.234**
	FR1 n78-PC2 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	650000	3750	20.82	22.00	1.312	-	-	0.06	0.789	1.035

	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	650000	3750	20.91	22.00	1.285	-	-	-0.06	0.435	0.559
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	650000	3750	20.89	22.00	1.291	-	-	-0.06	0.463	0.598
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	650000	3750	20.91	22.00	1.285	-	-	0.04	0.273	0.351
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	650000	3750	20.89	22.00	1.291	-	-	0.09	0.296	0.382
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	650000	3750	20.91	22.00	1.285	-	-	0.14	0.170	0.218
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	650000	3750	20.89	22.00	1.291	-	-	-0.09	0.179	0.231
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2 Simultaneous	650000	3750	19.69	20.70	1.262	-	-	0.02	0.731	0.922
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	21.56	22.00	1.107	-	-	0.05	0.803	0.889
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	21.55	22.00	1.109	-	-	0.05	0.991	1.099
	FR1 n78-PC2 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	21.44	22.00	1.138	-	-	0.01	0.821	0.934
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	633334	3500.01	21.56	22.00	1.107	-	-	0.03	0.617	0.683
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	633334	3500.01	21.55	22.00	1.109	-	-	0.01	0.729	0.809
	FR1 n78-PC2 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	633334	3500.01	21.44	22.00	1.138	-	-	0.08	0.633	0.720
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	21.56	22.00	1.107	-	-	0.04	0.307	0.340
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	21.55	22.00	1.109	-	-	0.02	0.327	0.363
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	633334	3500.01	21.56	22.00	1.107	-	-	0.07	0.231	0.256
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	633334	3500.01	21.55	22.00	1.109	-	-	-0.05	0.280	0.311
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2 Simultaneous	633334	3500.01	20.09	20.70	1.151	-	-	-0.01	0.742	0.854

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Duty Cycle %	Pmax	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
3500~3900MHz for SRS Ant																		
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	650000	3750	22.81	10	23.00	0.01	0.034	0.004
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	650000	3750	22.62	10	23.00	0.02	0.031	0.003
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	650000	3750	22.81	10	23.00	0.04	0.041	0.004
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	650000	3750	22.62	10	23.00	0.04	0.040	0.004
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	650000	3750	22.81	10	23.00	-0.15	0.044	0.005
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	650000	3750	22.62	10	23.00	0.05	0.043	0.005
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	650000	3750	22.81	10	23.00	0.03	0.034	0.004
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	650000	3750	22.62	10	23.00	0.01	0.026	0.003
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	22.68	10	23.00	0.03	0.019	0.002
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	22.44	10	23.00	0.01	0.023	0.003
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	633334	3500.01	22.68	10	23.00	0.02	0.026	0.003
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	633334	3500.01	22.44	10	23.00	0.08	0.020	0.002
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	633334	3500.01	22.68	10	23.00	-0.03	0.037	0.004
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	633334	3500.01	22.44	10	23.00	0.08	0.035	0.004
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	633334	3500.01	22.68	10	23.00	0.07	0.031	0.003
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	633334	3500.01	22.44	10	23.00	0.09	0.027	0.003
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	650000	3750	25.73	10	26.00	0.08	0.415	0.044
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	650000	3750	25.42	10	26.00	0.13	0.407	0.047
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	650000	3750	25.73	10	26.00	0.11	0.388	0.041
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	650000	3750	25.42	10	26.00	-0.08	0.460	0.053
	FR1 n78-PC2 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	650000	3750	25.47	10	26.00	0.12	0.435	0.049
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	650000	3750	25.73	10	26.00	0.17	0.245	0.026
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	650000	3750	25.42	10	26.00	0.05	0.208	0.024
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	650000	3750	25.73	10	26.00	0.04	0.250	0.027
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	650000	3750	25.42	10	26.00	0.06	0.259	0.030
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	25.64	10	26.00	0.03	0.436	0.047
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	25.57	10	26.00	0.05	0.562	0.062
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	633334	3500.01	25.64	10	26.00	0.04	0.511	0.056
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	633334	3500.01	25.57	10	26.00	-0.04	0.576	0.064
	FR1 n78-PC2 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	633334	3500.01	25.54	10	26.00	0.01	0.489	0.054
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	25.64	10	26.00	0.08	0.350	0.038
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	25.57	10	26.00	0.04	0.433	0.048
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	25.64	10	26.00	0.01	0.377	0.041
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	25.57	10	26.00	0.08	0.479	0.053
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	650000	3750	22.00	10	21.90	0.03	0.015	0.001
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	650000	3750	21.81	10	21.90	0.01	0.002	0.000
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	650000	3750	22.00	10	21.90	0.01	0.031	0.003
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	650000	3750	21.81	10	21.90	0.02	0.016	0.002
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	650000	3750	22.00	10	21.90	0.05	0.009	0.001
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	650000	3750	21.81	10	21.90	0.04	0.001	0.000
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	650000	3750	22.00	10	21.90	0.06	0.019	0.002
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	650000	3750	21.81	10	21.90	0.04	0.007	0.001
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	633334	3500.01	22.19	10	21.90	0.03	0.013	0.001
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	633334	3500.01	21.98	10	21.90	0.05	0.002	0.000
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	22.19	10	21.90	0.01	0.031	0.003
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	21.98	10	21.90	0.06	0.019	0.002
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	633334	3500.01	22.19	10	21.90	0.04	0.015	0.001
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	633334	3500.01	21.98	10	21.90	0.06	0.005	0.000
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	633334	3500.01	22.19	10	21.90	0.13	0.021	0.002
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	633334	3500.01	21.98	10	21.90	0.11	0.007	0.001

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)
						WLAN/Bluetooth										
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Standalone	1	2412	18.69	20.00	1.352	97.87	1.022	0.01	0.617	0.853
22	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Standalone	11	2462	18.60	20.00	1.380	97.87	1.022	0.07	0.812	**1.146**
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+6	Standalone	1	2412	18.69	20.00	1.352	97.87	1.022	0.06	0.582	0.804
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+6	Standalone	11	2462	18.60	20.00	1.380	97.87	1.022	0.05	0.742	1.047
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+6	Standalone	1	2412	18.69	20.00	1.352	97.87	1.022	0.04	0.255	0.352
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	Standalone	1	2412	18.69	20.00	1.352	97.87	1.022	0.01	0.311	0.430
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	DBS only	11	2462	16.40	17.50	1.288	97.87	1.022	0.05	0.541	0.712
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	WWAN+WLAN	11	2462	14.58	16.00	1.386	97.87	1.022	0.1	0.371	0.525
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	WWAN+DBS	11	2462	11.93	13.50	1.436	97.87	1.022	0.04	0.203	0.298
23	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	Full Power	0	2402	13.53	14.00	1.115	76.79	1.302	-0.16	0.187	**0.272**
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4	Full Power	0	2402	13.53	14.00	1.115	76.79	1.302	0.03	0.170	0.247
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	Full Power	0	2402	13.53	14.00	1.115	76.79	1.302	0.09	0.108	0.157
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	Full Power	0	2402	13.53	14.00	1.115	76.79	1.302	0.11	0.119	0.173
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 6	Full Power	78	2480	15.32	16.50	1.314	76.82	1.302	0.01	0.001	0.002
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 6	Full Power	78	2480	15.32	16.50	1.314	76.82	1.302	0.03	0.000	0.000
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Full Power	78	2480	15.32	16.50	1.314	76.82	1.302	0.02	0.000	0.000
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 6	Full Power	78	2480	15.32	16.50	1.314	76.82	1.302	0.05	0.000	0.000
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+6	Standalone	58	5290	18.85	20.50	1.463	100	1.000	0.05	0.730	1.068
24	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	Standalone	58	5290	18.85	20.50	1.463	100	1.000	0.04	0.810	**1.185**
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+6	Standalone	58	5290	18.85	20.50	1.463	100	1.000	0.05	0.507	0.741
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+6	Standalone	58	5290	18.85	20.50	1.463	100	1.000	0.04	0.622	0.910
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	DBS only	58	5290	17.03	18.50	1.403	100	1.000	-0.12	0.505	0.709
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	58	5290	13.02	14.50	1.407	100	1.000	-0.08	0.208	0.293
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5+6	Standalone	110	5550	19.64	21.00	1.368	100	1.000	0.06	0.664	0.909
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5+6	Standalone	102	5510	19.50	21.00	1.412	100	1.000	0.01	0.627	0.885
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5+6	Standalone	110	5550	19.64	21.00	1.368	100	1.000	0.1	0.728	0.996
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5+6	Standalone	102	5510	19.50	21.00	1.412	100	1.000	0.06	0.696	0.983
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+6	Standalone	110	5550	19.64	21.00	1.368	100	1.000	0.04	0.633	0.866
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+6	Standalone	102	5510	19.50	21.00	1.412	100	1.000	0.12	0.579	0.817
25	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5+6	Standalone	110	5550	19.64	21.00	1.368	100	1.000	-0.19	0.808	**1.106**
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5+6	Standalone	102	5510	19.50	21.00	1.412	100	1.000	0.13	0.750	1.059
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+6	DBS only	106	5530	17.23	19.00	1.503	100	1.000	0.18	0.488	0.734
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	106	5530	13.10	14.50	1.381	100	1.000	0.13	0.196	0.271
26	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+6	Standalone	155	5775	18.60	20.00	1.382	100	1.000	0.02	0.801	**1.107**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	Standalone	155	5775	18.60	20.00	1.382	100	1.000	0.01	0.784	1.083
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+6	Standalone	155	5775	18.60	20.00	1.382	100	1.000	0.07	0.594	0.821
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+6	Standalone	155	5775	18.60	20.00	1.382	100	1.000	0.07	0.765	1.057
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+6	DBS only	155	5775	15.95	17.50	1.429	100	1.000	-0.04	0.517	0.739
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	155	5775	12.30	14.00	1.480	100	1.000	0.08	0.174	0.258

16.2 Hotspot SAR

Plot No.	Band	BW (MHz)	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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																	
	LTE Band 12(17)	10M	QPSK	1	0	Front	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	22.93	23.50	1.140	-0.07	0.390	0.445
	LTE Band 12(17)	10M	QPSK	25	0	Front	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	22.86	23.50	1.159	-0.1	0.302	0.350
27	LTE Band 12(17)	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	22.93	23.50	1.140	0.01	0.739	**0.843**
	LTE Band 12(17)	10M	QPSK	25	0	Back	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	22.86	23.50	1.159	0.1	0.602	0.698
	LTE Band 12(17)	10M	QPSK	50	0	Back	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	22.83	23.50	1.167	-0.19	0.585	0.683
	LTE Band 12(17)	10M	QPSK	1	0	Left Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	22.93	23.50	1.140	0.04	0.129	0.147
	LTE Band 12(17)	10M	QPSK	25	0	Left Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	22.86	23.50	1.159	0.08	0.102	0.118
	LTE Band 12(17)	10M	QPSK	1	0	Right Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	22.93	23.50	1.140	-0.15	0.022	0.025
	LTE Band 12(17)	10M	QPSK	25	0	Right Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	22.86	23.50	1.159	0.04	0.068	0.079
	LTE Band 12(17)	10M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	22.93	23.50	1.140	0.06	0.326	0.372
	LTE Band 12(17)	10M	QPSK	25	0	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	22.86	23.50	1.159	0.04	0.254	0.294
	LTE Band 12(17)	10M	QPSK	1	0	Front	5mm	Ant 1	DSI 4	23095	707.5	22.67	24.00	1.358	-0.15	0.356	0.484
	LTE Band 12(17)	10M	QPSK	25	0	Front	5mm	Ant 1	DSI 4	23095	707.5	22.65	24.00	1.365	-0.11	0.259	0.353
	LTE Band 12(17)	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 4	23095	707.5	22.67	24.00	1.358	-0.11	0.394	0.535
	LTE Band 12(17)	10M	QPSK	25	0	Back	5mm	Ant 1	DSI 4	23095	707.5	22.65	24.00	1.365	0.13	0.320	0.437
	LTE Band 12(17)	10M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 4	23095	707.5	22.67	24.00	1.358	0.03	0.134	0.182
	LTE Band 12(17)	10M	QPSK	25	0	Left Side	5mm	Ant 1	DSI 4	23095	707.5	22.65	24.00	1.365	-0.02	0.105	0.143
	LTE Band 12(17)	10M	QPSK	1	0	Right Side	5mm	Ant 1	DSI 4	23095	707.5	22.67	24.00	1.358	0.16	0.164	0.223
	LTE Band 12(17)	10M	QPSK	25	0	Right Side	5mm	Ant 1	DSI 4	23095	707.5	22.65	24.00	1.365	-0.14	0.216	0.295
	LTE Band 12(17)	10M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 4	23095	707.5	22.67	24.00	1.358	-0.08	0.531	0.721
	LTE Band 12(17)	10M	QPSK	25	0	Top Side	5mm	Ant 1	DSI 4	23095	707.5	22.65	24.00	1.365	-0.02	0.425	0.580
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 0	DSI 4	23230	782	23.22	24.00	1.197	0.06	0.442	0.529
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 0	DSI 4	23230	782	22.93	24.00	1.279	-0.01	0.359	0.459
28	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 4	23230	782	23.22	24.00	1.197	-0.06	0.741	**0.887**
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 0	DSI 4	23230	782	22.93	24.00	1.279	-0.14	0.657	0.841
	LTE Band 13	10M	QPSK	50	0	Back	5mm	Ant 0	DSI 4	23230	782	22.88	24.00	1.294	0.16	0.630	0.815
	LTE Band 13	10M	QPSK	1	0	Left Side	5mm	Ant 0	DSI 4	23230	782	23.22	24.00	1.197	0.11	0.163	0.195
	LTE Band 13	10M	QPSK	25	0	Left Side	5mm	Ant 0	DSI 4	23230	782	22.93	24.00	1.279	-0.15	0.134	0.171
	LTE Band 13	10M	QPSK	1	0	Right Side	5mm	Ant 0	DSI 4	23230	782	23.22	24.00	1.197	-0.11	0.290	0.347
	LTE Band 13	10M	QPSK	25	0	Right Side	5mm	Ant 0	DSI 4	23230	782	22.93	24.00	1.279	0.08	0.238	0.304
	LTE Band 13	10M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 4	23230	782	23.22	24.00	1.197	0.07	0.476	0.570
	LTE Band 13	10M	QPSK	25	0	Bottom Side	5mm	Ant 0	DSI 4	23230	782	22.93	24.00	1.279	0.08	0.359	0.459
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 1	DSI 4	23230	782	22.48	23.00	1.127	0.02	0.427	0.481
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 1	DSI 4	23230	782	22.19	23.00	1.205	0.18	0.366	0.441
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 4	23230	782	22.48	23.00	1.127	-0.09	0.500	0.564
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 1	DSI 4	23230	782	22.19	23.00	1.205	0.04	0.432	0.521
	LTE Band 13	10M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 4	23230	782	22.48	23.00	1.127	-0.13	0.144	0.162
	LTE Band 13	10M	QPSK	25	0	Left Side	5mm	Ant 1	DSI 4	23230	782	22.19	23.00	1.205	0.12	0.128	0.154
	LTE Band 13	10M	QPSK	1	0	Right Side	5mm	Ant 1	DSI 4	23230	782	22.48	23.00	1.127	0.06	0.266	0.300
	LTE Band 13	10M	QPSK	25	0	Right Side	5mm	Ant 1	DSI 4	23230	782	22.19	23.00	1.205	-0.17	0.246	0.296
	LTE Band 13	10M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 4	23230	782	22.48	23.00	1.127	-0.01	0.634	0.715
	LTE Band 13	10M	QPSK	25	0	Top Side	5mm	Ant 1	DSI 4	23230	782	22.19	23.00	1.205	-0.16	0.560	0.675

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
								835MHz										
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	25.37	26.50	1.297	0.03	0.430	0.558
29	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	25.37	26.50	1.297	0.06	0.718	**0.931**
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	128	824.2	25.21	26.50	1.346	0.11	0.493	0.664
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	251	848.8	25.18	26.50	1.355	0.18	0.641	0.869
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	25.37	26.50	1.297	0.18	0.082	0.106
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	25.37	26.50	1.297	0.13	0.153	0.198
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	25.37	26.50	1.297	0.12	0.408	0.529
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	DSI 3 Simultaneous	189	836.4	25.68	26.60	1.236	0.15	0.464	0.573
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	DSI 3 Simultaneous	189	836.4	25.68	26.60	1.236	0.06	0.522	0.645
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 1	DSI 3 Simultaneous	189	836.4	25.68	26.60	1.236	0.08	0.141	0.174
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 1	DSI 3 Simultaneous	189	836.4	25.68	26.60	1.236	-0.06	0.246	0.304
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Top Side	5mm	Ant 1	DSI 3 Simultaneous	189	836.4	25.68	26.60	1.236	0.08	0.748	0.924
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Top Side	5mm	Ant 1	DSI 3 Simultaneous	128	824.2	25.45	26.60	1.303	-0.09	0.536	0.698
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Top Side	5mm	Ant 1	DSI 3 Simultaneous	251	848.8	25.55	26.60	1.274	-0.02	0.707	0.900
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	22.35	23.50	1.303	-0.04	0.426	0.555
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	22.35	23.50	1.303	-0.17	0.684	0.891
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	4132	826.4	22.25	23.50	1.334	0.01	0.637	0.849
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	4233	846.6	22.30	23.50	1.318	-0.03	0.701	0.924
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	22.35	23.50	1.303	0.09	0.072	0.094
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	22.35	23.50	1.303	-0.11	0.141	0.184
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	22.35	23.50	1.303	-0.12	0.581	0.757
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3 Simultaneous	4182	836.4	22.20	23.30	1.288	0.03	0.362	0.466
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3 Simultaneous	4182	836.4	22.20	23.30	1.288	-0.15	0.507	0.653
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3 Simultaneous	4182	836.4	22.20	23.30	1.288	-0.14	0.138	0.178
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI 3 Simultaneous	4182	836.4	22.20	23.30	1.288	0.01	0.216	0.278
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3 Simultaneous	4182	836.4	22.20	23.30	1.288	0.05	0.675	0.870
30	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3 Simultaneous	4132	826.4	22.06	23.30	1.330	0.02	0.705	**0.938**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3 Simultaneous	4233	846.6	22.17	23.30	1.297	0.03	0.655	0.850
	LTE Band 26(5)	15M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.64	23.00	1.368	-0.12	0.318	0.435
	LTE Band 26(5)	15M	QPSK	36	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.57	23.00	1.390	0.06	0.266	0.370
31	LTE Band 26(5)	15M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.64	23.00	1.368	0.01	0.687	**0.940**
	LTE Band 26(5)	15M	QPSK	36	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.57	23.00	1.390	0.03	0.536	0.745
	LTE Band 26(5)	15M	QPSK	75	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.59	23.00	1.384	0.05	0.495	0.685
	LTE Band 26(5)	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.64	23.00	1.368	0.12	0.093	0.127
	LTE Band 26(5)	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.57	23.00	1.390	0.06	0.060	0.083
	LTE Band 26(5)	15M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.64	23.00	1.368	0.05	0.054	0.074
	LTE Band 26(5)	15M	QPSK	36	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.57	23.00	1.390	-0.16	0.051	0.071
	LTE Band 26(5)	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.64	23.00	1.368	-0.01	0.673	0.920
	LTE Band 26(5)	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.57	23.00	1.390	0.18	0.571	0.794
	LTE Band 26(5)	15M	QPSK	75	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	21.59	23.00	1.384	-0.05	0.499	0.690
	LTE Band 26(5)	15M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	26865	831.5	22.40	23.50	1.288	-0.16	0.343	0.442
	LTE Band 26(5)	15M	QPSK	36	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	26865	831.5	22.38	23.50	1.294	0.14	0.334	0.432
	LTE Band 26(5)	15M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	26865	831.5	22.40	23.50	1.288	0.17	0.477	0.614
	LTE Band 26(5)	15M	QPSK	36	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	26865	831.5	22.38	23.50	1.294	0.08	0.422	0.546
	LTE Band 26(5)	15M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	26865	831.5	22.40	23.50	1.288	-0.11	0.116	0.149
	LTE Band 26(5)	15M	QPSK	36	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	26865	831.5	22.38	23.50	1.294	0.06	0.093	0.120
	LTE Band 26(5)	15M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	26865	831.5	22.40	23.50	1.288	-0.1	0.106	0.137
	LTE Band 26(5)	15M	QPSK	36	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	26865	831.5	22.38	23.50	1.294	0.04	0.182	0.236
	LTE Band 26(5)	15M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	26865	831.5	22.40	23.50	1.288	-0.08	0.679	0.875
	LTE Band 26(5)	15M	QPSK	36	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	26865	831.5	22.38	23.50	1.294	0.06	0.503	0.651
	LTE Band 26(5)	15M	QPSK	75	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	26865	831.5	22.33	23.50	1.309	0.18	0.490	0.641
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	22.14	23.30	1.306	0.19	0.441	0.576

	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.99	23.30	1.352	-0.02	0.446	0.603
32	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	22.14	23.30	1.306	-0.12	0.719	**0.939**
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.99	23.30	1.352	-0.16	0.668	0.903
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.94	23.30	1.368	-0.17	0.649	0.888
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	22.14	23.30	1.306	0.09	0.072	0.094
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.99	23.30	1.352	-0.02	0.072	0.097
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	22.14	23.30	1.306	0.03	0.141	0.184
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.99	23.30	1.352	-0.17	0.135	0.183
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	22.14	23.30	1.306	0.05	0.426	0.556
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.99	23.30	1.352	0.09	0.408	0.552

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
1750MHz																		
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3 Simultaneous	1413	1732.6	15.27	16.10	1.211	0.05	0.348	0.421
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	1413	1732.6	15.27	16.10	1.211	0.16	0.425	0.515
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3 Simultaneous	1413	1732.6	15.27	16.10	1.211	-0.13	0.019	0.023
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3 Simultaneous	1413	1732.6	15.27	16.10	1.211	0.08	0.031	0.038
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	1413	1732.6	15.27	16.10	1.211	0.07	0.662	0.801
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	1312	1712.4	15.15	16.10	1.245	-0.1	0.593	0.738
33	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	1513	1752.6	15.09	16.10	1.262	0.08	0.741	**0.935**
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.01	16.30	1.346	-0.12	0.301	0.405
	LTE Band 66(4)	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	14.98	16.30	1.355	0.04	0.227	0.308
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.01	16.30	1.346	0.18	0.375	0.505
	LTE Band 66(4)	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	14.98	16.30	1.355	0.08	0.334	0.453
	LTE Band 66(4)	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.01	16.30	1.346	0.07	0.018	0.024
	LTE Band 66(4)	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	14.98	16.30	1.355	0.08	0.012	0.016
	LTE Band 66(4)	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.01	16.30	1.346	-0.09	0.029	0.039
	LTE Band 66(4)	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	14.98	16.30	1.355	0.07	0.022	0.030
	LTE Band 66(4)	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.01	16.30	1.346	-0.04	0.691	0.930
	LTE Band 66(4)	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132072	1720	14.99	16.30	1.352	0.11	0.552	0.746
	LTE Band 66(4)	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132572	1770	14.97	16.30	1.358	-0.14	0.664	0.902
	LTE Band 66(4)	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	14.98	16.30	1.355	-0.07	0.528	0.716
	LTE Band 66(4)	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	14.93	16.30	1.371	0.06	0.536	0.735
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	14.51	15.80	1.346	-0.09	0.368	0.495
	LTE Band 66(4)	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	14.41	15.80	1.377	0.11	0.284	0.391
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	14.51	15.80	1.346	0.05	0.456	0.614
	LTE Band 66(4)	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	14.41	15.80	1.377	0.02	0.389	0.536
	LTE Band 66(4)	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	14.51	15.80	1.346	0.01	0.011	0.015
	LTE Band 66(4)	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	14.41	15.80	1.377	0.02	0.008	0.011
	LTE Band 66(4)	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	14.51	15.80	1.346	0.02	0.065	0.087
	LTE Band 66(4)	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	14.41	15.80	1.377	0.03	0.052	0.072
	LTE Band 66(4)	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	14.51	15.80	1.346	0.07	0.620	0.834
	LTE Band 66(4)	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132072	1720	14.39	15.80	1.384	-0.17	0.555	0.768
34	LTE Band 66(4)	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132572	1770	14.42	15.80	1.374	-0.03	0.684	**0.940**
	LTE Band 66(4)	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	14.41	15.80	1.377	0.08	0.491	0.676
	LTE Band 66(4)	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	14.19	15.80	1.449	-0.14	0.490	0.710
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	14.38	15.50	1.294	0.02	0.379	0.491
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	14.25	15.50	1.334	0.04	0.430	0.573
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	14.38	15.50	1.294	0.06	0.505	0.654
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	14.25	15.50	1.334	-0.06	0.582	0.776
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	14.38	15.50	1.294	0.08	0.009	0.012
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	14.25	15.50	1.334	-0.11	0.011	0.015
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	14.38	15.50	1.294	0.06	0.066	0.085
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	14.25	15.50	1.334	0.07	0.074	0.099
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	14.38	15.50	1.294	-0.18	0.614	0.795
35	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	14.25	15.50	1.334	-0.06	0.703	**0.937**
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	14.19	15.50	1.352	0.1	0.674	0.911
1900MHz																		
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	DSI 3 Simultaneous	661	1880	16.69	17.50	1.205	0.01	0.363	0.437
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	661	1880	16.69	17.50	1.205	0.05	0.441	0.531
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	DSI 3 Simultaneous	661	1880	16.69	17.50	1.205	0.08	0.018	0.022
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	DSI 3 Simultaneous	661	1880	16.69	17.50	1.205	0.03	0.018	0.022
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	661	1880	16.69	17.50	1.205	0.01	0.689	0.830
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	512	1850.2	16.48	17.50	1.265	0.05	0.704	0.890
36	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	810	1909.8	16.51	17.50	1.256	-0.06	0.734	**0.922**

	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	14.63	16.00	1.371	-0.03	0.316	0.433
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	14.63	16.00	1.371	0.08	0.403	0.552
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	14.63	16.00	1.371	0.02	0.017	0.023
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	14.63	16.00	1.371	0.18	0.016	0.022
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	14.63	16.00	1.371	-0.11	0.642	0.880
37	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	9262	1852.4	14.59	16.00	1.384	-0.09	0.667	**0.923**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	9538	1907.6	14.42	16.00	1.439	0.06	0.601	0.865
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	14.79	15.80	1.262	0.06	0.293	0.370
	LTE Band 25(2)	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	14.65	15.80	1.303	0.03	0.231	0.301
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	14.79	15.80	1.262	-0.03	0.431	0.544
	LTE Band 25(2)	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	14.65	15.80	1.303	0.04	0.311	0.405
	LTE Band 25(2)	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	14.79	15.80	1.262	0.02	0.018	0.023
	LTE Band 25(2)	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	14.65	15.80	1.303	0.03	0.014	0.018
	LTE Band 25(2)	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	14.79	15.80	1.262	0.02	0.022	0.028
	LTE Band 25(2)	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	14.65	15.80	1.303	0.05	0.017	0.022
	LTE Band 25(2)	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	14.79	15.80	1.262	-0.09	0.716	0.903
	LTE Band 25(2)	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26140	1860	14.68	15.80	1.294	0.05	0.641	0.830
	LTE Band 25(2)	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26590	1905	14.71	15.80	1.285	-0.09	0.734	0.943
	LTE Band 25(2)	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	14.65	15.80	1.303	0.13	0.568	0.740
	LTE Band 25(2)	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	14.57	15.80	1.327	0.08	0.584	0.775
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	26340	1880	16.67	17.70	1.268	0.03	0.356	0.451
	LTE Band 25(2)	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	26340	1880	16.62	17.70	1.282	0.04	0.283	0.363
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	26340	1880	16.67	17.70	1.268	0.07	0.489	0.620
	LTE Band 25(2)	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	26340	1880	16.62	17.70	1.282	0.09	0.379	0.486
	LTE Band 25(2)	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	26340	1880	16.67	17.70	1.268	-0.07	0.017	0.022
	LTE Band 25(2)	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	26340	1880	16.62	17.70	1.282	0.16	0.015	0.019
	LTE Band 25(2)	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	26340	1880	16.67	17.70	1.268	-0.14	0.111	0.141
	LTE Band 25(2)	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	26340	1880	16.62	17.70	1.282	0.05	0.105	0.135
38	LTE Band 25(2)	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	26340	1880	16.67	17.70	1.268	-0.04	0.744	**0.943**
	LTE Band 25(2)	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	26140	1860	16.48	17.70	1.324	-0.04	0.658	0.871
	LTE Band 25(2)	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	26590	1905	16.45	17.70	1.334	-0.07	0.648	0.864
	LTE Band 25(2)	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	26340	1880	16.62	17.70	1.282	0.08	0.579	0.742
	LTE Band 25(2)	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	26340	1880	16.65	17.70	1.274	-0.11	0.575	0.732

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	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)
										2600MHz										
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.19	15.20	1.262	-	-	0.04	0.256	0.323
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.08	15.20	1.294	-	-	0.06	0.211	0.273
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.19	15.20	1.262	-	-	-0.01	0.304	0.384
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.08	15.20	1.294	-	-	-0.18	0.263	0.340
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.19	15.20	1.262	-	-	-0.03	0.018	0.023
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.08	15.20	1.294	-	-	0.11	0.014	0.018
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.19	15.20	1.262	-	-	-0.18	0.028	0.035
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.08	15.20	1.294	-	-	0.03	0.023	0.030
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.19	15.20	1.262	-	-	0.04	0.725	0.915
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	20850	2510	13.99	15.20	1.321	-	-	0.04	0.701	0.926
39	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	21350	2560	14.13	15.20	1.279	-	-	-0.06	0.736	**0.942**
	LTE Band 7C	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	21350+21152	2560+2540	14.06	15.20	1.300	-	-	0.01	0.589	0.766
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.08	15.20	1.294	-	-	0.16	0.598	0.774
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.07	15.20	1.297	-	-	-0.1	0.586	0.760
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	15.45	16.70	1.334	-	-	0.09	0.210	0.280
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	15.40	16.70	1.349	-	-	-0.07	0.170	0.229
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	15.45	16.70	1.334	-	-	-0.1	0.313	0.417
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	15.40	16.70	1.349	-	-	0.06	0.253	0.341
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	15.45	16.70	1.334	-	-	0.07	0.016	0.021
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	15.40	16.70	1.349	-	-	-0.08	0.013	0.018
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	15.45	16.70	1.334	-	-	0.01	0.039	0.052
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	15.40	16.70	1.349	-	-	0.05	0.033	0.045
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	15.45	16.70	1.334	-	-	0.03	0.610	0.813
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	20850	2510	15.30	16.70	1.380	-	-	0.13	0.530	0.732
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	21350	2560	15.39	16.70	1.352	-	-	0.06	0.686	0.928
	LTE Band 7C	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	2135+21152	2560+2579.8	15.31	16.70	1.377	-	-	0.01	0.511	0.704
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	15.40	16.70	1.349	-	-	0.03	0.460	0.621
	LTE Band 7	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	15.36	16.70	1.361	-	-	0.07	0.463	0.630
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	38000	2595	16.75	17.80	1.274	62.9	1.006	0.07	0.212	0.272
	LTE Band 38	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	38000	2595	16.68	17.80	1.294	62.9	1.006	0.02	0.209	0.272
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	38000	2595	16.75	17.80	1.274	62.9	1.006	0.1	0.264	0.338
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	38000	2595	16.68	17.80	1.294	62.9	1.006	0.02	0.264	0.344
	LTE Band 38	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	38000	2595	16.75	17.80	1.274	62.9	1.006	-0.18	0.010	0.013
	LTE Band 38	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	38000	2595	16.68	17.80	1.294	62.9	1.006	0.08	0.011	0.014
	LTE Band 38	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	38000	2595	16.75	17.80	1.274	62.9	1.006	-0.07	0.026	0.033
	LTE Band 38	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	38000	2595	16.68	17.80	1.294	62.9	1.006	0.13	0.028	0.036
	LTE Band 38	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	38000	2595	16.75	17.80	1.274	62.9	1.006	-0.05	0.578	0.741
	LTE Band 38	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	38000	2595	16.68	17.80	1.294	62.9	1.006	-0.17	0.631	0.822
	LTE Band 38	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	37850	2580	16.51	17.80	1.346	62.9	1.006	0.03	0.645	0.873
	LTE Band 38	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	38150	2610	16.59	17.80	1.321	62.9	1.006	0.01	0.599	0.796
	LTE Band 38	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	38000	2595	16.66	17.80	1.300	62.9	1.006	0.06	0.591	0.773
40	LTE Band 38-PC2	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	37850	2580	18.38	19.40	1.265	42.9	1.009	0.04	0.741	**0.946**
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	38000	2595	16.42	17.90	1.406	62.9	1.006	0.06	0.198	0.280
	LTE Band 38	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	38000	2595	16.39	17.90	1.416	62.9	1.006	-0.05	0.208	0.296
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	38000	2595	16.42	17.90	1.406	62.9	1.006	0.09	0.315	0.446
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	38000	2595	16.39	17.90	1.416	62.9	1.006	0.17	0.328	0.467
	LTE Band 38	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	38000	2595	16.42	17.90	1.406	62.9	1.006	-0.13	0.011	0.016
	LTE Band 38	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	38000	2595	16.39	17.90	1.416	62.9	1.006	0.01	0.011	0.016
	LTE Band 38	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	38000	2595	16.42	17.90	1.406	62.9	1.006	0.08	0.053	0.075
	LTE Band 38	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	38000	2595	16.39	17.90	1.416	62.9	1.006	0.07	0.055	0.078
	LTE Band 38	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	38000	2595	16.42	17.90	1.406	62.9	1.006	0.02	0.605	0.856

	LTE Band 38	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	37850	2580	16.28	17.90	1.452	62.9	1.006	0.04	0.551	0.805
	LTE Band 38	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	38150	2610	16.36	17.90	1.426	62.9	1.006	0.01	0.641	0.919
	LTE Band 38	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	38000	2595	16.39	17.90	1.416	62.9	1.006	0.03	0.633	0.902
	LTE Band 38	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	37850	2580	16.21	17.90	1.476	62.9	1.006	0.01	0.615	0.913
	LTE Band 38	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	38150	2610	16.30	17.90	1.445	62.9	1.006	0.01	0.634	0.922
	LTE Band 38	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	38000	2595	16.38	17.90	1.419	62.9	1.006	0.03	0.631	0.901
	LTE Band 38-PC2	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	38150	2610	18.39	19.50	1.291	62.9	1.006	0.07	0.718	0.933
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	40620	2593	16.29	17.30	1.262	62.9	1.006	-0.05	0.266	0.338
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	40620	2593	16.23	17.30	1.279	62.9	1.006	0.04	0.196	0.252
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	40620	2593	16.29	17.30	1.262	62.9	1.006	0.04	0.325	0.413
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	40620	2593	16.23	17.30	1.279	62.9	1.006	0.04	0.271	0.349
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	40620	2593	16.29	17.30	1.262	62.9	1.006	0.09	0.016	0.020
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	40620	2593	16.23	17.30	1.279	62.9	1.006	-0.06	0.013	0.017
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	40620	2593	16.29	17.30	1.262	62.9	1.006	0.02	0.038	0.048
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	40620	2593	16.23	17.30	1.279	62.9	1.006	0.07	0.031	0.040
41	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	40620	2593	16.29	17.30	1.262	62.9	1.006	-0.02	0.742	**0.942**
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	39750	2506	16.23	17.30	1.279	62.9	1.006	0.06	0.618	0.795
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	40185	2549.5	16.17	17.30	1.297	62.9	1.006	0.06	0.701	0.915
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	41055	2636.5	16.21	17.30	1.285	62.9	1.006	0.03	0.664	0.859
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	41490	2680	16.26	17.30	1.271	62.9	1.006	0.1	0.637	0.814
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	40620	2593	16.23	17.30	1.279	62.9	1.006	-0.18	0.568	0.731
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	39750	2506	16.10	17.30	1.318	62.9	1.006	0.06	0.611	0.810
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	40185	2549.5	16.07	17.30	1.327	62.9	1.006	0.06	0.511	0.682
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	41055	2636.5	16.03	17.30	1.340	62.9	1.006	0.03	0.501	0.675
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	41490	2680	16.10	17.30	1.318	62.9	1.006	0.1	0.559	0.741
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	40620	2593	16.21	17.30	1.285	62.9	1.006	0.17	0.567	0.733
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	16.24	17.50	1.337	62.9	1.006	-0.06	0.175	0.235
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	16.20	17.50	1.349	62.9	1.006	0.08	0.152	0.206
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	16.24	17.50	1.337	62.9	1.006	0.08	0.301	0.405
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	16.20	17.50	1.349	62.9	1.006	-0.17	0.216	0.293
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	16.24	17.50	1.337	62.9	1.006	0.16	0.009	0.012
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	16.20	17.50	1.349	62.9	1.006	-0.1	0.008	0.011
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	16.24	17.50	1.337	62.9	1.006	0.19	0.048	0.065
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	16.20	17.50	1.349	62.9	1.006	0.11	0.040	0.054
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	16.24	17.50	1.337	62.9	1.006	0.14	0.586	0.788
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	39750	2506	16.12	17.50	1.374	62.9	1.006	0.07	0.400	0.553
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	40185	2549.5	16.05	17.50	1.396	62.9	1.006	0.09	0.458	0.643
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	41055	2636.5	16.09	17.50	1.384	62.9	1.006	-0.12	0.627	0.873
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	41490	2680	16.08	17.50	1.387	62.9	1.006	0.03	0.670	0.935
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	16.20	17.50	1.349	62.9	1.006	-0.14	0.474	0.643
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	39750	2506	15.97	17.50	1.422	62.9	1.006	-0.07	0.325	0.465
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	40185	2549.5	15.96	17.50	1.426	62.9	1.006	-0.19	0.382	0.548
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	41055	2636.5	15.94	17.50	1.432	62.9	1.006	0.06	0.512	0.738
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	41490	2680	15.95	17.50	1.429	62.9	1.006	0.01	0.538	0.773
	LTE Band 41	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	16.18	17.50	1.355	62.9	1.006	0.08	0.474	0.646
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	507000	2535	14.56	15.50	1.242	-	-	-0.18	0.311	0.386
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	507000	2535	14.48	15.50	1.265	-	-	-0.02	0.292	0.369
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	507000	2535	14.56	15.50	1.242	-	-	-0.16	0.361	0.448
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	507000	2535	14.48	15.50	1.265	-	-	0.02	0.329	0.416
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	507000	2535	14.56	15.50	1.242	-	-	0.09	0.016	0.020
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	507000	2535	14.48	15.50	1.265	-	-	0.02	0.014	0.018
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	507000	2535	14.56	15.50	1.242	-	-	0.02	0.026	0.032
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	507000	2535	14.48	15.50	1.265	-	-	0.05	0.029	0.037
42	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	507000	2535	14.56	15.50	1.242	-	-	-0.14	0.748	**0.929**
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	507000	2535	14.48	15.50	1.265	-	-	0.03	0.721	0.912
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	507000	2535	14.45	15.50	1.274	-	-	0.07	0.711	0.905

	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	15.30	16.30	1.259	-	-	-0.08	0.352	0.443
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	15.25	16.30	1.274	-	-	0.07	0.390	0.497
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	15.30	16.30	1.259	-	-	0.09	0.537	0.676
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	15.25	16.30	1.274	-	-	-0.02	0.539	0.686
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	15.30	16.30	1.259	-	-	-0.03	0.026	0.033
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	15.25	16.30	1.274	-	-	0.07	0.023	0.029
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	15.30	16.30	1.259	-	-	0.07	0.071	0.089
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	15.25	16.30	1.274	-	-	-0.11	0.066	0.084
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	15.30	16.30	1.259	-	-	-0.01	0.735	0.925
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	15.25	16.30	1.274	-	-	-0.09	0.717	0.913
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	15.20	16.30	1.288	-	-	-0.14	0.709	0.913
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	519000	2595	14.71	15.60	1.227	-	-	0.05	0.216	0.265
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	519000	2595	14.61	15.60	1.256	-	-	0.07	0.227	0.285
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	519000	2595	14.71	15.60	1.227	-	-	-0.02	0.340	0.417
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	519000	2595	14.61	15.60	1.256	-	-	0.01	0.354	0.445
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	519000	2595	14.71	15.60	1.227	-	-	0.02	0.013	0.016
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	519000	2595	14.61	15.60	1.256	-	-	0.06	0.010	0.013
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	519000	2595	14.71	15.60	1.227	-	-	0.17	0.054	0.066
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	519000	2595	14.61	15.60	1.256	-	-	0.07	0.053	0.067
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	519000	2595	14.71	15.60	1.227	-	-	0.09	0.590	0.724
43	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	519000	2595	14.61	15.60	1.256	-	-	0.04	0.742	**0.932**
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	519000	2595	14.60	15.60	1.259	-	-	-0.13	0.520	0.655

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	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)
	3500~3900MHz																			
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	13.71	14.90	1.315	62.9	1.006	0.06	0.050	0.066
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	13.69	14.90	1.321	62.9	1.006	0.07	0.044	0.058
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	13.71	14.90	1.315	62.9	1.006	0.01	0.678	0.897
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42190	3460	13.56	14.90	1.361	62.9	1.006	0.03	0.670	0.918
44	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42990	3540	13.58	14.90	1.355	62.9	1.006	-0.09	0.716	**0.976**
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	13.69	14.90	1.321	62.9	1.006	0.01	0.707	0.940
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42190	3460	13.65	14.90	1.334	62.9	1.006	0.03	0.682	0.915
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42990	3540	13.61	14.90	1.346	62.9	1.006	-0.16	0.705	0.955
	LTE Band 42 Part27Q	20M	QPSK	100	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	13.56	14.90	1.361	62.9	1.006	0.02	0.574	0.786
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	13.71	14.90	1.315	62.9	1.006	0.08	0.187	0.247
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	13.69	14.90	1.321	62.9	1.006	0.03	0.177	0.235
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	13.71	14.90	1.315	62.9	1.006	0.07	0.040	0.053
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	13.69	14.90	1.321	62.9	1.006	-0.17	0.031	0.041
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	14.79	16.30	1.416	62.9	1.006	0.17	0.053	0.075
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	14.71	16.30	1.442	62.9	1.006	0.18	0.053	0.077
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	14.79	16.30	1.416	62.9	1.006	0.02	0.614	0.875
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	55340	3560	14.71	16.30	1.442	62.9	1.006	0.07	0.592	0.859
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	55830	3609	14.73	16.30	1.435	62.9	1.006	0.19	0.609	0.879
45	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	56640	3690	14.77	16.30	1.422	62.9	1.006	-0.17	0.631	**0.903**
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	14.71	16.30	1.442	62.9	1.006	0.13	0.614	0.891
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	55340	3560	14.65	16.30	1.462	62.9	1.006	0.04	0.607	0.893
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	55830	3609	14.66	16.30	1.459	62.9	1.006	-0.04	0.613	0.900
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	14.61	16.30	1.476	62.9	1.006	-0.01	0.601	0.892
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	14.52	16.30	1.507	62.9	1.006	-0.01	0.591	0.896
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	14.79	16.30	1.416	62.9	1.006	0.04	0.169	0.241
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	14.71	16.30	1.442	62.9	1.006	0.06	0.171	0.248
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	14.79	16.30	1.416	62.9	1.006	-0.06	0.031	0.044
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	14.71	16.30	1.442	62.9	1.006	0.14	0.040	0.058
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	11.59	12.90	1.352	-	-	0.01	0.063	0.085
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	11.49	12.90	1.384	-	-	0.01	0.063	0.087
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	11.59	12.90	1.352	-	-	-0.07	0.505	0.683
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	11.49	12.90	1.384	-	-	-0.02	0.593	0.820
	FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	11.35	12.90	1.429	-	-	-0.04	0.505	0.722
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	11.59	12.90	1.352	-	-	-0.18	0.164	0.222
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	11.49	12.90	1.384	-	-	0.12	0.177	0.245
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	11.59	12.90	1.352	-	-	-0.09	0.025	0.034
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	11.49	12.90	1.384	-	-	0.14	0.025	0.035
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	11.98	12.90	1.236	-	-	-0.02	0.057	0.070
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	11.90	12.90	1.259	-	-	-0.04	0.058	0.073
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	11.98	12.90	1.236	-	-	-0.18	0.674	0.833
46	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	11.90	12.90	1.259	-	-	-0.05	0.745	**0.938**
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	11.70	12.90	1.318	-	-	-0.09	0.574	0.757
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	11.98	12.90	1.236	-	-	0.14	0.183	0.226
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	11.90	12.90	1.259	-	-	0.18	0.193	0.243
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	11.98	12.90	1.236	-	-	-0.16	0.074	0.091
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	11.90	12.90	1.259	-	-	-0.14	0.067	0.084
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	650000	3750	11.55	13.20	1.462	-	-	0.17	0.049	0.072
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	650000	3750	11.43	13.20	1.503	-	-	0.05	0.062	0.093
	FR1 n78-PC2 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	650000	3750	11.32	13.20	1.542	-	-	-0.03	0.037	0.057
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	650000	3750	11.55	13.20	1.462	-	-	0.07	0.455	0.665
47	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	650000	3750	11.43	13.20	1.503	-	-	0.05	0.615	**0.924**

	FR1 n78-PC2 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	650000	3750	11.32	13.20	1.542	-	-	0.03	0.443	0.683
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	650000	3750	11.55	13.20	1.462	-	-	0.03	0.234	0.342
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	650000	3750	11.43	13.20	1.503	-	-	-0.07	0.258	0.388
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	650000	3750	11.55	13.20	1.462	-	-	0.16	0.037	0.054
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	650000	3750	11.43	13.20	1.503	-	-	-0.18	0.037	0.056
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	12.33	13.20	1.222	-	-	0.03	0.064	0.078
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	12.24	13.20	1.247	-	-	0.03	0.064	0.080
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	12.33	13.20	1.222	-	-	-0.07	0.595	0.727
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	12.24	13.20	1.247	-	-	0.16	0.724	0.903
	FR1 n78-PC2 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	12.17	13.20	1.268	-	-	-0.18	0.660	0.837
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	12.33	13.20	1.222	-	-	0.09	0.225	0.275
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	12.24	13.20	1.247	-	-	0.17	0.257	0.321
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	12.33	13.20	1.222	-	-	0.04	0.080	0.098
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	12.24	13.20	1.247	-	-	0.01	0.080	0.100

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Duty Cycle %	Pmax	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
3500~3900MHz for SRS Ant																		
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	650000	3750	22.81	10	23.00	0.04	0.412	0.043
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	650000	3750	22.62	10	23.00	0.09	0.372	0.041
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	650000	3750	22.81	10	23.00	-0.05	0.453	0.047
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	650000	3750	22.62	10	23.00	0.14	0.428	0.047
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 4	650000	3750	22.81	10	23.00	0.16	0.395	0.041
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 4	650000	3750	22.62	10	23.00	-0.18	0.413	0.045
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 3	DSI 4	650000	3750	22.81	10	23.00	0.15	0.344	0.036
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 3	DSI 4	650000	3750	22.62	10	23.00	0.11	0.361	0.039
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	633334	3500.01	22.68	10	23.00	0.14	0.362	0.039
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	633334	3500.01	22.44	10	23.00	0.08	0.324	0.037
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	633334	3500.01	22.68	10	23.00	-0.07	0.444	0.048
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	633334	3500.01	22.44	10	23.00	0.01	0.409	0.047
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 4	633334	3500.01	22.68	10	23.00	-0.15	0.391	0.042
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 4	633334	3500.01	22.44	10	23.00	-0.19	0.389	0.044
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 3	DSI 4	633334	3500.01	22.68	10	23.00	-0.1	0.380	0.041
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 3	DSI 4	633334	3500.01	22.44	10	23.00	0.16	0.278	0.032
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3 Simultaneous	650000	3750	15.52	10	26.00	-0.12	0.039	0.044
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3 Simultaneous	650000	3750	15.47	10	26.00	-0.14	0.029	0.033
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	650000	3750	15.52	10	26.00	0.09	0.684	0.764
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	650000	3750	15.47	10	26.00	-0.05	0.514	0.581
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3 Simultaneous	650000	3750	15.52	10	26.00	0.08	0.073	0.082
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3 Simultaneous	650000	3750	15.47	10	26.00	0.02	0.048	0.054
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3 Simultaneous	650000	3750	15.52	10	26.00	0.04	0.251	0.280
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3 Simultaneous	650000	3750	15.47	10	26.00	0.08	0.162	0.183
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.47	10	26.00	0.13	0.038	0.043
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.45	10	26.00	0.18	0.040	0.045
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.47	10	26.00	-0.04	0.693	0.783
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.45	10	26.00	0.02	0.689	0.782
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.47	10	26.00	0.16	0.063	0.071
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.45	10	26.00	-0.09	0.049	0.056
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.47	10	26.00	0.03	0.171	0.193
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.45	10	26.00	0.02	0.158	0.179
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 3 Simultaneous	650000	3750	18.67	10	21.90	0.19	0.181	0.038
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 3 Simultaneous	650000	3750	18.42	10	21.90	0.08	0.102	0.023
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3 Simultaneous	650000	3750	18.67	10	21.90	0.02	0.727	0.153
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3 Simultaneous	650000	3750	18.42	10	21.90	0.02	0.610	0.136
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Rigth Side	5mm	Ant 8	DSI 3 Simultaneous	650000	3750	18.67	10	21.90	0.07	0.053	0.011
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Rigth Side	5mm	Ant 8	DSI 3 Simultaneous	650000	3750	18.42	10	21.90	-0.08	0.031	0.007

	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	DSI 3 Simultaneous	650000	3750	18.67	10	21.90	0.02	0.213	0.045
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	DSI 3 Simultaneous	650000	3750	18.42	10	21.90	0.07	0.172	0.038
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 3 Simultaneous	633334	3500.01	18.51	10	21.90	-0.16	0.088	0.019
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 3 Simultaneous	633334	3500.01	18.31	10	21.90	-0.11	0.103	0.024
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3 Simultaneous	633334	3500.01	18.51	10	21.90	-0.04	0.747	0.163
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3 Simultaneous	633334	3500.01	18.31	10	21.90	0.14	0.746	0.171
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Rigth Side	5mm	Ant 8	DSI 3 Simultaneous	633334	3500.01	18.51	10	21.90	0.11	0.049	0.011
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Rigth Side	5mm	Ant 8	DSI 3 Simultaneous	633334	3500.01	18.31	10	21.90	-0.08	0.068	0.016
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	DSI 3 Simultaneous	633334	3500.01	18.51	10	21.90	0.06	0.111	0.024
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	DSI 3 Simultaneous	633334	3500.01	18.31	10	21.90	0.07	0.137	0.031

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)
WLAN/Bluetooth																
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 4+6	WWAN+WLAN	1	2412	16.80	18.00	1.318	97.87	1.022	0.03	0.187	0.252
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	WWAN+WLAN	1	2412	16.80	18.00	1.318	97.87	1.022	0.08	0.216	0.291
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 4+6	WWAN+WLAN	1	2412	16.80	18.00	1.318	97.87	1.022	0.07	0.052	0.070
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 4+6	WWAN+WLAN	1	2412	16.80	18.00	1.318	97.87	1.022	0.02	0.051	0.069
48	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 4+6	WWAN+WLAN	1	2412	16.80	18.00	1.318	97.87	1.022	0.06	0.391	**0.527**
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 4+6	WWAN+DBS	1	2412	14.43	15.50	1.281	97.87	1.022	0.19	0.161	0.211
	Bluetooth	1Mbps	Front	5mm	Ant 4	Full Power	0	2402	13.53	14.00	1.115	76.79	1.302	0.18	0.088	0.128
	Bluetooth	1Mbps	Back	5mm	Ant 4	Full Power	0	2402	13.53	14.00	1.115	76.79	1.302	0.09	0.118	0.171
	Bluetooth	1Mbps	Left Side	5mm	Ant 4	Full Power	0	2402	13.53	14.00	1.115	76.79	1.302	0.03	0.089	0.129
	Bluetooth	1Mbps	Right Side	5mm	Ant 4	Full Power	0	2402	13.53	14.00	1.115	76.79	1.302	-0.11	0.047	0.068
	Bluetooth	1Mbps	Top Side	5mm	Ant 4	Full Power	0	2402	13.53	14.00	1.115	76.79	1.302	-0.08	0.105	0.152
	Bluetooth	1Mbps	Front	5mm	Ant 6	Full Power	78	2480	15.32	16.50	1.314	76.82	1.302	0.19	0.001	0.002
49	Bluetooth	1Mbps	Back	5mm	Ant 6	Full Power	78	2480	15.32	16.50	1.314	76.82	1.302	-0.1	0.188	**0.322**
	Bluetooth	1Mbps	Right Side	5mm	Ant 6	Full Power	78	2480	15.32	16.50	1.314	76.82	1.302	0.19	0.050	0.086
	Bluetooth	1Mbps	Top Side	5mm	Ant 6	Full Power	78	2480	15.32	16.50	1.314	76.82	1.302	0.06	0.003	0.005
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	42	5210	10.03	11.50	1.403	100	1.000	0.01	0.048	0.067
50	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	42	5210	10.03	11.50	1.403	100	1.000	0.01	0.199	**0.279**
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	42	5210	10.03	11.50	1.403	100	1.000	-0.07	0.046	0.065
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	42	5210	10.03	11.50	1.403	100	1.000	-0.02	0.043	0.060
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	42	5210	10.03	11.50	1.403	100	1.000	-0.04	0.166	0.233
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	155	5775	11.66	13.00	1.361	100	1.000	0.17	0.053	0.072
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	155	5775	11.66	13.00	1.361	100	1.000	0.04	0.109	0.148
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	155	5775	11.66	13.00	1.361	100	1.000	0.01	0.033	0.045
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	155	5775	11.66	13.00	1.361	100	1.000	0.03	0.040	0.054
51	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	155	5775	11.66	13.00	1.361	100	1.000	0.03	0.202	**0.275**

16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	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)
750MHz																			
	LTE Band 12(17)	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 4	23095	707.5	22.93	24.00	1.279	0.04	0.488	0.624
	LTE Band 12(17)	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 4	23095	707.5	22.92	24.00	1.282	0.02	0.378	0.485
52	LTE Band 12(17)	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	23095	707.5	22.93	24.00	1.279	-0.13	0.926	**1.185**
	LTE Band 12(17)	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 4	23095	707.5	22.92	24.00	1.282	-0.11	0.755	0.968
	LTE Band 12(17)	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	23095	707.5	22.91	24.00	1.285	-0.07	0.733	0.942
	LTE Band 12(17)	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3 Simultaneous	23095	707.5	22.93	23.50	1.140	-0.07	0.390	0.445
	LTE Band 12(17)	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	23095	707.5	22.93	23.50	1.140	0.01	0.739	0.843
	LTE Band 12(17)	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 4	23095	707.5	22.67	24.00	1.358	-0.15	0.356	0.484
	LTE Band 12(17)	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 4	23095	707.5	22.65	24.00	1.365	-0.11	0.259	0.353
	LTE Band 12(17)	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 4	23095	707.5	22.67	24.00	1.358	-0.11	0.394	0.535
	LTE Band 12(17)	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 4	23095	707.5	22.65	24.00	1.365	0.13	0.320	0.437
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 4	23230	782	23.22	24.00	1.197	0.03	0.573	0.686
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 4	23230	782	22.93	24.00	1.279	0.15	0.465	0.595
53	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	23230	782	23.22	24.00	1.197	-0.06	0.960	**1.149**
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 4	23230	782	22.93	24.00	1.279	0.08	0.851	1.089
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	23230	782	22.88	24.00	1.294	0.15	0.817	1.057
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 4	23230	782	23.22	24.00	1.197	0.06	0.442	0.529
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	23230	782	23.22	24.00	1.197	-0.06	0.741	0.887
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 4	23230	782	22.48	23.00	1.127	0.02	0.427	0.481
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 4	23230	782	22.19	23.00	1.205	0.18	0.366	0.441
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 4	23230	782	22.48	23.00	1.127	-0.09	0.500	0.564
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 4	23230	782	22.19	23.00	1.205	0.04	0.432	0.521
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 4	23230	782	22.11	23.00	1.227	-0.14	0.442	0.543
850MHz																			
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 0	-	DSI 3	189	836.4	28.28	29.00	1.180	-0.11	0.622	0.734
54	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	189	836.4	28.28	29.00	1.180	-0.04	0.987	**1.165**
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	128	824.2	28.47	29.00	1.130	0.09	0.715	0.808
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	251	848.8	28.08	29.00	1.236	-0.16	0.929	1.148
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	18mm	Ant 0	-	DSI 4	189	836.4	28.28	29.50	1.324	0.07	0.181	0.240
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	21mm	Ant 0	-	DSI 4	189	836.4	28.28	29.50	1.324	0.01	0.163	0.216
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3 Simultaneous	189	836.4	25.37	26.50	1.297	0.03	0.430	0.558
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3 Simultaneous	189	836.4	25.37	26.50	1.297	0.06	0.718	0.931
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	-	DSI 4	189	836.4	28.05	29.50	1.396	-0.17	0.504	0.704
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	DSI 4	189	836.4	28.05	29.50	1.396	0.02	0.577	0.806
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	DSI 4	128	824.2	28.03	29.50	1.403	-0.05	0.601	0.843
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	DSI 4	251	848.8	27.79	29.50	1.483	-0.06	0.662	0.981
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	-	DSI 3 Simultaneous	189	836.4	25.68	26.60	1.236	0.15	0.464	0.573
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	DSI 3 Simultaneous	189	836.4	25.68	26.60	1.236	0.06	0.522	0.645
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	4182	836.4	23.59	24.50	1.233	-0.11	0.597	0.736
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4182	836.4	23.59	24.50	1.233	-0.18	0.959	1.183
55	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4132	826.4	23.46	24.50	1.271	-0.09	0.984	**1.250**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	4132	826.4	23.46	24.50	1.271	0.03	0.625	0.794
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	23.54	24.50	1.247	0.03	0.895	1.116
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	18mm	Ant 0	-	DSI 4	4182	836.4	23.99	25.00	1.262	0.01	0.165	0.208
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	21mm	Ant 0	-	DSI 4	4132	826.4	23.76	25.00	1.330	0.12	0.227	0.302
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3 Simultaneous	4182	836.4	22.35	23.50	1.303	-0.04	0.426	0.555
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3 Simultaneous	4233	846.6	22.30	23.50	1.318	-0.03	0.701	0.924
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 4	4182	836.4	23.79	25.00	1.321	0.03	0.584	0.772
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 4	4182	836.4	23.79	25.00	1.321	0.15	0.816	1.078
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 4	4132	826.4	23.78	25.00	1.324	-0.05	0.867	1.148
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 4	4233	846.6	23.75	25.00	1.334	0.1	0.790	1.053

	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3 Simultaneous	4182	836.4	22.20	23.30	1.288	0.03	0.362	0.466
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3 Simultaneous	4182	836.4	22.20	23.30	1.288	-0.15	0.507	0.653
	LTE Band 26(5)	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	26865	831.5	22.61	23.50	1.227	-0.05	0.442	0.543
	LTE Band 26(5)	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	DSI 3	26865	831.5	22.58	23.50	1.236	-0.1	0.371	0.459
56	LTE Band 26(5)	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	22.61	23.50	1.227	0.08	0.956	**1.173**
	LTE Band 26(5)	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	22.58	23.50	1.236	0.09	0.746	0.922
	LTE Band 26(5)	15M	QPSK	75	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	22.58	23.50	1.236	0.04	0.688	0.850
	LTE Band 26(5)	15M	QPSK	1	0	-	Front	18mm	Ant 0	-	DSI 4	26865	831.5	22.61	24.00	1.377	-0.14	0.163	0.224
	LTE Band 26(5)	15M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	26865	831.5	22.61	24.00	1.377	-0.16	0.140	0.193
	LTE Band 26(5)	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3 Simultaneous	26865	831.5	21.64	23.00	1.368	-0.12	0.318	0.435
	LTE Band 26(5)	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	26865	831.5	21.64	23.00	1.368	0.01	0.687	0.940
	LTE Band 26(5)	15M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 4	26865	831.5	22.40	24.00	1.445	0.03	0.449	0.649
	LTE Band 26(5)	15M	QPSK	36	0	-	Front	5mm	Ant 1	-	DSI 4	26865	831.5	22.38	24.00	1.452	0.08	0.437	0.635
	LTE Band 26(5)	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 4	26865	831.5	22.40	24.00	1.445	-0.07	0.624	0.902
	LTE Band 26(5)	15M	QPSK	36	0	-	Back	5mm	Ant 1	-	DSI 4	26865	831.5	22.38	24.00	1.452	-0.02	0.552	0.802
	LTE Band 26(5)	15M	QPSK	75	0	-	Back	5mm	Ant 1	-	DSI 4	26865	831.5	22.33	24.00	1.469	-0.05	0.548	0.805
	LTE Band 26(5)	15M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3 Simultaneous	26865	831.5	22.40	23.50	1.288	-0.16	0.343	0.442
	LTE Band 26(5)	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	26865	831.5	22.40	23.50	1.288	0.17	0.477	0.614
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 4	167300	836.5	23.48	24.00	1.127	0.07	0.544	0.613
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 4	167300	836.5	23.36	24.00	1.159	0.09	0.538	0.623
57	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	167300	836.5	23.48	24.00	1.127	-0.18	0.877	**0.989**
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	167300	836.5	23.36	24.00	1.159	0.07	0.815	0.944
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	167300	836.5	22.99	24.00	1.262	0.06	0.735	0.927
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3 Simultaneous	167300	836.5	21.99	23.30	1.352	-0.02	0.446	0.603
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3 Simultaneous	167300	836.5	22.14	23.30	1.306	-0.12	0.719	0.939

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	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)
1750MHz																			
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	1413	1732.6	18.33	19.20	1.222	0.03	0.754	0.921
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	1312	1712.4	18.26	19.20	1.242	0.01	0.669	0.831
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	1513	1752.6	18.19	19.20	1.262	0.05	0.812	1.025
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	1413	1732.6	18.33	19.20	1.222	0.04	0.920	1.124
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	1312	1712.4	18.26	19.20	1.242	0.04	0.779	0.967
58	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	1513	1752.6	18.19	19.20	1.262	0.08	0.979	**1.235**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	1513	1752.6	18.19	19.20	1.262	0.01	0.621	0.784
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	18mm	Ant 0	-	DSI 4	1513	1752.6	24.14	25.00	1.219	0.02	0.478	0.583
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	21mm	Ant 0	-	DSI 4	1513	1752.6	24.14	25.00	1.219	0.05	0.415	0.506
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3 Simultaneous	1413	1732.6	15.27	16.10	1.211	0.05	0.348	0.421
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3 Simultaneous	1413	1732.6	15.27	16.10	1.211	0.16	0.425	0.515
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	132322	1745	17.99	19.40	1.384	0.05	0.614	0.850
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	132072	1720	17.87	19.40	1.422	0.04	0.586	0.833
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	132572	1770	17.92	19.40	1.406	0.05	0.536	0.754
	LTE Band 66(4)	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	132322	1745	17.89	19.40	1.416	0.01	0.463	0.656
	LTE Band 66(4)	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	132322	1745	17.79	19.40	1.449	0.04	0.414	0.600
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	17.99	19.40	1.384	0.05	0.766	1.060
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132072	1720	17.87	19.40	1.422	0.01	0.852	1.212
59	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132572	1770	17.92	19.40	1.406	0.01	0.877	**1.233**
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	132572	1770	17.92	19.40	1.406	0.01	0.529	0.744
	LTE Band 66(4)	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	17.89	19.40	1.416	0.05	0.682	0.966
	LTE Band 66(4)	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132072	1720	17.74	19.40	1.466	0.04	0.624	0.915
	LTE Band 66(4)	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132572	1770	17.65	19.40	1.496	0.12	0.675	1.010
	LTE Band 66(4)	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	17.79	19.40	1.449	0.13	0.468	0.678
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	18mm	Ant 0	-	DSI 4	132322	1745	23.15	24.00	1.216	0.02	0.461	0.561
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	132572	1770	22.89	24.00	1.291	0.06	0.416	0.537
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3 Simultaneous	132322	1745	15.01	16.30	1.346	-0.12	0.301	0.405
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	132322	1745	15.01	16.30	1.346	0.18	0.375	0.505
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	16.99	18.10	1.291	0.01	0.659	0.851
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132072	1720	16.91	18.10	1.315	0.13	0.635	0.835
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132572	1770	16.94	18.10	1.306	0.15	0.749	0.978
	LTE Band 66(4)	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	16.74	18.10	1.368	0.14	0.508	0.695
	LTE Band 66(4)	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	16.67	18.10	1.390	0.03	0.530	0.737
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	16.99	18.10	1.291	0.01	0.816	1.054
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	16.91	18.10	1.315	0.05	0.820	1.078
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	16.94	18.10	1.306	-0.1	0.943	1.232
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	132572	1770	16.94	18.10	1.306	0.08	0.512	0.669
	LTE Band 66(4)	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	16.74	18.10	1.368	0.02	0.695	0.951
	LTE Band 66(4)	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	16.64	18.10	1.400	0.01	0.620	0.868
	LTE Band 66(4)	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	16.71	18.10	1.377	0.02	0.764	1.052
	LTE Band 66(4)	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	16.67	18.10	1.390	0.04	0.693	0.963
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	18mm	Ant 1	-	DSI 4	132572	1770	22.01	23.00	1.256	0.04	0.404	0.507
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	132572	1770	22.01	23.00	1.256	0.05	0.415	0.521
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3 Simultaneous	132322	1745	14.51	15.80	1.346	-0.09	0.368	0.495
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	132322	1745	14.51	15.80	1.346	0.05	0.456	0.614
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	16.77	18.10	1.358	0.02	0.590	0.801
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	16.73	18.10	1.371	0.01	0.669	0.917
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	16.66	18.10	1.393	0.05	0.661	0.921
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	16.77	18.10	1.358	0.04	0.786	1.068
60	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	16.73	18.10	1.371	-0.06	0.906	**1.242**
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	DSI 3	349000	1745	16.73	18.10	1.371	0.08	0.549	0.753
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	16.66	18.10	1.393	0.05	0.870	1.212
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	18mm	Ant 1	-	DSI 4	349000	1745	23.62	24.00	1.091	0.03	0.069	0.075

	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	18mm	Ant 1	-	DSI 4	349000	1745	23.56	24.00	1.107	-0.05	0.084	0.093
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	18mm	Ant 1	-	DSI 4	349000	1745	23.31	24.00	1.172	0.06	0.091	0.107
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	21mm	Ant 1	-	DSI 4	349000	1745	23.62	24.00	1.091	0.02	0.082	0.089
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	21mm	Ant 1	-	DSI 4	349000	1745	23.56	24.00	1.107	0.01	0.083	0.092
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3 Simultaneous	349000	1745	14.25	15.50	1.334	0.04	0.430	0.573
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3 Simultaneous	349000	1745	14.25	15.50	1.334	-0.06	0.582	0.776

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	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)
									1900MHz										
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3	661	1880	20.24	21.70	1.400	0.01	0.630	0.882
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3	512	1850.2	20.22	21.70	1.406	0.09	0.685	0.963
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3	810	1909.8	20.11	21.70	1.442	0.01	0.575	0.829
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	661	1880	20.24	21.70	1.400	0.05	0.765	1.071
61	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	512	1850.2	20.22	21.70	1.406	-0.03	0.886	**1.246**
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Headset	DSI 3	512	1850.2	20.22	21.70	1.406	0.02	0.457	0.643
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	810	1909.8	20.11	21.70	1.442	0.02	0.754	1.087
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	18mm	Ant 0	-	DSI 4	512	1850.2	25.33	26.50	1.309	0.06	0.297	0.389
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	21mm	Ant 0	-	DSI 4	512	1850.2	25.33	26.50	1.309	-0.02	0.332	0.435
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3 Simultaneous	661	1880	16.69	17.50	1.205	0.01	0.363	0.437
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3 Simultaneous	661	1880	16.69	17.50	1.205	0.05	0.441	0.531
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	9400	1880	18.33	19.60	1.340	-0.03	0.626	0.839
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	9262	1852.4	18.21	19.60	1.377	0.01	0.686	0.945
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	9538	1907.6	18.18	19.60	1.387	0.01	0.577	0.800
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9400	1880	18.33	19.60	1.340	0.08	0.798	1.069
62	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9262	1852.4	18.21	19.60	1.377	-0.02	0.897	**1.235**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	9262	1852.4	18.21	19.60	1.377	0.02	0.455	0.627
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9538	1907.6	18.18	19.60	1.387	0.07	0.681	0.944
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	18mm	Ant 0	-	DSI 4	9262	1852.4	24.16	25.00	1.213	0.08	0.562	0.682
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	21mm	Ant 0	-	DSI 4	9262	1852.4	24.16	25.00	1.213	0.04	0.524	0.636
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3 Simultaneous	9400	1880	14.63	16.00	1.371	-0.03	0.316	0.433
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3 Simultaneous	9400	1880	14.63	16.00	1.371	0.08	0.403	0.552
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	26340	1880	18.33	19.40	1.279	0.06	0.667	0.853
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	26140	1860	18.21	19.40	1.315	0.05	0.735	0.967
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	26590	1905	18.32	19.40	1.282	-0.11	0.608	0.780
	LTE Band 25(2)	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	26340	1880	18.32	19.40	1.282	0.03	0.526	0.675
	LTE Band 25(2)	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	26340	1880	18.28	19.40	1.294	-0.17	0.494	0.639
63	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26340	1880	18.33	19.40	1.279	-0.03	0.982	**1.256**
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	26340	1880	18.33	19.40	1.279	0.05	0.463	0.592
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26140	1860	18.21	19.40	1.315	0.04	0.939	1.235
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26590	1905	18.32	19.40	1.282	-0.16	0.941	1.207
	LTE Band 25(2)	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	26340	1880	18.32	19.40	1.282	0.04	0.708	0.908
	LTE Band 25(2)	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	26140	1860	18.23	19.40	1.309	-0.04	0.713	0.933
	LTE Band 25(2)	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	26590	1905	18.18	19.40	1.324	0.06	0.667	0.883
	LTE Band 25(2)	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	26340	1880	18.28	19.40	1.294	-0.19	0.738	0.955
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	18mm	Ant 0	-	DSI 4	26140	1860	22.80	24.00	1.318	0.02	0.315	0.415
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	26340	1880	22.89	24.00	1.291	-0.11	0.432	0.558
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3 Simultaneous	26340	1880	14.79	15.80	1.262	0.06	0.293	0.370
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	26340	1880	14.79	15.80	1.262	-0.03	0.431	0.544
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	26340	1880	19.58	20.60	1.265	0.03	0.654	0.827
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	26140	1860	19.41	20.60	1.315	0.01	0.741	0.975
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	26590	1905	19.33	20.60	1.340	0.05	0.537	0.719
	LTE Band 25(2)	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	26340	1880	19.51	20.60	1.285	0.04	0.520	0.668
	LTE Band 25(2)	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	26340	1880	19.46	20.60	1.300	0.05	0.520	0.676
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	26340	1880	19.58	20.60	1.265	-0.15	0.992	1.255
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	26340	1880	19.58	20.60	1.265	0.07	0.584	0.739

	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	26140	1860	19.41	20.60	1.315	0.07	0.899	1.182
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	26590	1905	19.33	20.60	1.340	0.05	0.751	1.006
	LTE Band 25(2)	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	26340	1880	19.51	20.60	1.285	0.09	0.696	0.895
	LTE Band 25(2)	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	26140	1860	19.40	20.60	1.318	0.04	0.837	1.103
	LTE Band 25(2)	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	26590	1905	19.21	20.60	1.377	0.07	0.606	0.835
	LTE Band 25(2)	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	26340	1880	19.46	20.60	1.300	0.05	0.706	0.918
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	18mm	Ant 1	-	DSI 4	26140	1860	23.13	24.00	1.222	0.04	0.232	0.283
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	26340	1880	23.28	24.00	1.180	0.02	0.215	0.254
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3 Simultaneous	26340	1880	16.67	17.70	1.268	0.03	0.356	0.451
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	26340	1880	16.67	17.70	1.268	0.07	0.489	0.620

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	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)
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	21100	2535	18.71	19.70	1.256	-	-	0.04	0.772	0.970
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	20850	2510	18.39	19.70	1.352	-	-	-0.16	0.770	1.041
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	21350	2560	18.67	19.70	1.268	-	-	-0.04	0.754	0.956
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	21100	2535	18.64	19.70	1.276	-	-	0.06	0.635	0.811
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	20850	2510	18.34	19.70	1.368	-	-	0.17	0.617	0.844
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	21350	2560	18.36	19.70	1.361	-	-	-0.01	0.593	0.807
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	21100	2535	18.60	19.70	1.288	-	-	-0.14	0.569	0.733
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	21100	2535	18.71	19.70	1.256	-	-	-0.01	0.914	1.148
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	20850	2510	18.39	19.70	1.352	-	-	0.1	0.909	1.229
64	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	21350	2560	18.67	19.70	1.268	-	-	-0.06	0.983	**1.246**
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	21350+ 21152	2560+ 2579.8	18.63	19.70	1.279	-	-	0.01	0.733	0.938
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	21350	2560	18.67	19.70	1.268	-	-	0.02	0.621	0.787
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	21100	2535	18.64	19.70	1.276	-	-	-0.18	0.793	1.012
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	20850	2510	18.34	19.70	1.368	-	-	0.07	0.759	1.038
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	21350	2560	18.36	19.70	1.361	-	-	0.1	0.783	1.066
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	21100	2535	18.60	19.70	1.288	-	-	0.06	0.788	1.015
	LTE Band 7	20M	QPSK	1	0	-	Front	18mm	Ant 0	-	DSI 4	20850	2510	23.21	24.00	1.199	-	-	0.06	0.565	0.678
	LTE Band 7	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	21350	2560	23.40	24.00	1.148	-	-	0.1	0.531	0.610
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3 Simultaneous	21100	2535	14.19	15.20	1.262	-	-	0.04	0.256	0.323
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	21100	2535	14.19	15.20	1.262	-	-	-0.01	0.304	0.384
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	18.69	19.70	1.262	-	-	0.09	0.602	0.760
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	18.57	19.70	1.297	-	-	-0.07	0.487	0.632
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	18.69	19.70	1.262	-	-	-0.1	0.898	1.133
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	18.33	19.70	1.371	-	-	-0.11	0.889	1.219
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	18.63	19.70	1.279	-	-	0.01	0.971	1.242
	LTE Band 7C	20M	QPSK	1	99	-	Back	5mm	Ant 1	-	DSI 3	21350+ 21152	2560+ 2579.8	18.61	19.70	1.285	-	-	0.01	0.712	0.915
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	21350	2560	18.63	19.70	1.279	-	-	0.03	0.659	0.843
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	18.57	19.70	1.297	-	-	0.06	0.725	0.940
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	18.24	19.70	1.400	-	-	0.03	0.759	1.062
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	18.29	19.70	1.384	-	-	-0.05	0.808	1.118
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	18.53	19.70	1.309	-	-	0.03	0.731	0.957
	LTE Band 7	20M	QPSK	1	0	-	Front	18mm	Ant 1	-	DSI 4	21100	2535	22.71	24.00	1.346	-	-	0.16	0.263	0.354
	LTE Band 7	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	21350	2560	22.67	24.00	1.358	-	-	0.02	0.251	0.341
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3 Simultaneous	21100	2535	15.45	16.70	1.334	-	-	0.09	0.210	0.280
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	21100	2535	15.45	16.70	1.334	-	-	-0.1	0.313	0.417
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	38000	2595	21.00	22.60	1.445	42.9	1.009	0.07	0.597	0.871
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	37850	2580	20.82	22.60	1.507	62.9	1.006	0.07	0.590	0.894
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	38150	2610	20.88	22.60	1.486	62.9	1.006	-0.04	0.643	0.961
	LTE Band 38	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	38000	2595	20.97	22.60	1.455	62.9	1.006	0.02	0.590	0.864
	LTE Band 38	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	37850	2580	20.81	22.60	1.510	62.9	1.006	0.13	0.618	0.939

	LTE Band 38	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	38150	2610	20.92	22.60	1.472	62.9	1.006	-0.09	0.625	0.926
	LTE Band 38	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	38000	2595	20.95	22.60	1.462	62.9	1.006	0.08	0.548	0.806
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	38000	2595	21.00	22.60	1.445	62.9	1.006	0.1	0.744	1.082
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	37850	2580	20.82	22.60	1.507	62.9	1.006	0.03	0.800	1.213
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	38150	2610	20.88	22.60	1.486	62.9	1.006	0.01	0.821	1.227
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	38150	2610	20.88	22.60	1.486	62.9	1.006	-0.03	0.805	1.203
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	38000	2595	20.97	22.60	1.455	62.9	1.006	0.02	0.744	1.089
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	37850	2580	20.81	22.60	1.510	62.9	1.006	0.08	0.779	1.183
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	38150	2610	20.92	22.60	1.472	62.9	1.006	0.1	0.797	1.180
	LTE Band 38	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	38000	2595	20.95	22.60	1.462	62.9	1.006	0.02	0.727	1.069
	LTE Band 38-PC2	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	38150	2610	22.91	24.20	1.346	42.9	1.009	0.03	0.913	1.240
	LTE Band 38	20M	QPSK	1	0	-	Front	18mm	Ant 0	-	DSI 4	38150	2610	23.26	24.00	1.186	62.9	1.006	0.07	0.214	0.255
	LTE Band 38	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	38150	2610	23.26	24.00	1.186	62.9	1.006	0.13	0.211	0.252
	LTE Band 38-PC2	20M	QPSK	1	0	-	Front	18mm	Ant 0	-	DSI 4	38150	2610	26.33	27.00	1.167	42.9	1.009	0.07	0.255	0.300
	LTE Band 38-PC2	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	38150	2610	26.33	27.00	1.167	42.9	1.009	0.13	0.251	0.296
	LTE Band 38	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3 Simultaneous	38000	2595	16.68	17.80	1.294	62.9	1.006	0.02	0.209	0.272
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	38000	2595	16.68	17.80	1.294	62.9	1.006	0.02	0.264	0.344
	LTE Band 38-PC2	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	38000	2595	18.38	19.40	1.265	42.9	1.009	0.04	0.741	0.946
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	38000	2595	20.91	22.00	1.285	62.9	1.006	0.06	0.453	0.586
	LTE Band 38	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	38000	2595	20.86	22.00	1.300	62.9	1.006	-0.05	0.475	0.621
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	38000	2595	20.91	22.00	1.285	62.9	1.006	0.09	0.721	0.932
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	37850	2580	20.71	22.00	1.346	62.9	1.006	0.02	0.641	0.868
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	38150	2610	20.77	22.00	1.327	62.9	1.006	0.02	0.804	1.074
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	38000	2595	20.86	22.00	1.300	62.9	1.006	0.17	0.751	0.982
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	37850	2580	20.71	22.00	1.346	62.9	1.006	0.08	0.672	0.910
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	38150	2610	20.82	22.00	1.312	62.9	1.006	0.01	0.849	1.121
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 1	Headset	DSI 3	38150	2610	20.82	22.00	1.312	62.9	1.006	0.03	0.735	0.970
	LTE Band 38	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	38000	2595	20.85	22.00	1.303	62.9	1.006	-0.18	0.785	1.029
65	LTE Band 38-PC2	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	38150	2610	22.31	23.60	1.346	42.9	1.009	0.04	0.939	**1.275**
	LTE Band 38	20M	QPSK	1	0	-	Front	18mm	Ant 1	-	DSI 4	38000	2595	22.89	24.00	1.291	62.9	1.006	0.02	0.125	0.162
	LTE Band 38	20M	QPSK	50	0	-	Front	18mm	Ant 1	-	DSI 4	38000	2595	22.85	24.00	1.303	62.9	1.006	0.13	0.105	0.138
	LTE Band 38	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	38150	2610	22.72	24.00	1.343	62.9	1.006	0.07	0.156	0.211
	LTE Band 38	20M	QPSK	50	0	-	Back	21mm	Ant 1	-	DSI 4	38150	2610	22.71	24.00	1.346	62.9	1.006	0.01	0.148	0.200
	LTE Band 38-PC2	20M	QPSK	1	0	-	Front	18mm	Ant 1	-	DSI 4	38000	2595	25.68	26.50	1.208	42.9	1.009	-0.09	0.131	0.160
	LTE Band 38-PC2	20M	QPSK	50	0	-	Front	18mm	Ant 1	-	DSI 4	38000	2595	25.56	26.50	1.242	42.9	1.009	0.13	0.115	0.144
	LTE Band 38-PC2	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	38150	2610	25.5	26.50	1.259	42.9	1.009	0.01	0.162	0.206
	LTE Band 38-PC2	20M	QPSK	50	0	-	Back	21mm	Ant 1	-	DSI 4	38150	2610	25.2	26.50	1.349	42.9	1.009	0.01	0.159	0.216
	LTE Band 38	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3 Simultaneous	38000	2595	16.39	17.90	1.416	62.9	1.006	-0.05	0.208	0.296
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	38000	2595	16.39	17.90	1.416	62.9	1.006	0.17	0.328	0.467
	LTE Band 38-PC2	20M	QPSK	50	0		Back	5mm	Ant 1	-	DSI 3 Simultaneous	38000	2595	18.39	19.50	1.291	62.9	1.006	0.07	0.718	0.933
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	40620	2593	21.35	22.30	1.245	62.9	1.006	-0.05	0.795	0.995
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	39750	2506	21.08	22.30	1.324	62.9	1.006	-0.19	0.754	1.005
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	40185	2549.5	21.27	22.30	1.268	62.9	1.006	-0.14	0.723	0.922
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	41055	2636.5	21.16	22.30	1.300	62.9	1.006	0.09	0.643	0.841
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	41490	2680	21.23	22.30	1.279	62.9	1.006	0.07	0.580	0.746
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	40620	2593	21.30	22.30	1.259	62.9	1.006	0.04	0.585	0.741
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	39750	2506	21.20	22.30	1.288	62.9	1.006	0.07	0.665	0.862
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	40185	2549.5	21.25	22.30	1.274	62.9	1.006	-0.12	0.625	0.801
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	41055	2636.5	20.99	22.30	1.352	62.9	1.006	-0.12	0.513	0.698
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	41490	2680	21.06	22.30	1.330	62.9	1.006	-0.17	0.482	0.645
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	40620	2593	21.26	22.30	1.271	62.9	1.006	0.05	0.545	0.697
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	40620	2593	21.35	22.30	1.245	62.9	1.006	0.04	0.894	1.119
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	39750	2506	21.08	22.30	1.324	62.9	1.006	0.16	0.878	1.170
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	40185	2549.5	21.27	22.30	1.268	62.9	1.006	0.03	0.982	1.252
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	40185	2549.5	21.27	22.30	1.268	62.9	1.006	0.03	0.467	0.596

	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	41055	2636.5	21.16	22.30	1.300	62.9	1.006	-0.05	0.897	1.173
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	41490	2680	21.23	22.30	1.279	62.9	1.006	0.05	0.808	1.040
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	40620	2593	21.30	22.30	1.259	62.9	1.006	0.04	0.808	1.023
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	39750	2506	21.20	22.30	1.288	62.9	1.006	0.07	0.857	1.111
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	40185	2549.5	21.25	22.30	1.274	62.9	1.006	-0.05	0.839	1.075
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	41055	2636.5	20.99	22.30	1.352	62.9	1.006	-0.06	0.737	1.002
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	41490	2680	21.06	22.30	1.330	62.9	1.006	-0.14	0.670	0.897
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	40620	2593	21.26	22.30	1.271	62.9	1.006	-0.19	0.781	0.998
	LTE Band 41	20M	QPSK	1	0	-	Front	18mm	Ant 0	-	DSI 4	40185	2549.5	23.14	24.00	1.219	62.9	1.006	0.08	0.320	0.392
	LTE Band 41	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	40185	2549.5	23.14	24.00	1.219	62.9	1.006	0.03	0.352	0.432
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3 Simultaneous	40620	2593	16.29	17.30	1.262	62.9	1.006	-0.05	0.266	0.338
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	40620	2593	16.29	17.30	1.262	62.9	1.006	0.04	0.325	0.413
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	20.64	21.60	1.247	62.9	1.006	-0.06	0.520	0.653
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	39750	2506	20.37	21.60	1.327	62.9	1.006	0.07	0.495	0.661
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	40185	2549.5	20.53	21.60	1.279	62.9	1.006	-0.07	0.465	0.598
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	41055	2636.5	20.48	21.60	1.294	62.9	1.006	0.05	0.524	0.682
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	41490	2680	20.58	21.60	1.265	62.9	1.006	-0.12	0.672	0.855
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	20.57	21.60	1.268	62.9	1.006	0.08	0.452	0.576
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	20.54	21.60	1.276	62.9	1.006	0.09	0.461	0.592
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	20.64	21.60	1.247	62.9	1.006	0.08	0.896	1.124
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	20.37	21.60	1.327	62.9	1.006	0.06	0.799	1.067
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	20.53	21.60	1.279	62.9	1.006	0.02	0.710	0.914
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	20.48	21.60	1.294	62.9	1.006	0.09	0.888	1.156
66	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	20.58	21.60	1.265	62.9	1.006	-0.06	0.985	**1.253**
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	41490	2680	20.58	21.60	1.265	62.9	1.006	0.03	0.833	1.060
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	20.57	21.60	1.268	62.9	1.006	-0.17	0.643	0.820
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	20.50	21.60	1.288	62.9	1.006	0.04	0.605	0.784
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	20.53	21.60	1.279	62.9	1.006	-0.06	0.571	0.735
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	20.26	21.60	1.361	62.9	1.006	0.02	0.769	1.053
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	20.38	21.60	1.324	62.9	1.006	0.18	0.782	1.042
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	20.54	21.60	1.276	62.9	1.006	0.05	0.706	0.907
	LTE Band 41	20M	QPSK	1	0	-	Front	18mm	Ant 1	-	DSI 4	41490	2680	22.57	24.00	1.390	62.9	1.006	0.12	0.189	0.264
	LTE Band 41	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	41490	2680	22.57	24.00	1.390	62.9	1.006	-0.15	0.241	0.337
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3 Simultaneous	40620	2593	16.24	17.50	1.337	62.9	1.006	-0.06	0.175	0.235
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	40620	2593	16.24	17.50	1.337	62.9	1.006	0.08	0.301	0.405
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	507000	2535	19.18	20.40	1.324	-	-	-0.18	0.804	1.065
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	507000	2535	19.11	20.40	1.346	-	-	-0.02	0.755	1.016
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	507000	2535	19.07	20.40	1.358	-	-	0.03	0.762	1.035
67	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	507000	2535	19.18	20.40	1.324	-	-	-0.16	0.933	**1.236**
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	Headset	DSI 3	507000	2535	19.18	20.40	1.324	-	-	0.04	0.580	0.768
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	507000	2535	19.11	20.40	1.346	-	-	0.02	0.849	1.143
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	507000	2535	19.07	20.40	1.358	-	-	0.06	0.856	1.163
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	18mm	Ant 0	-	DSI 4	507000	2535	22.84	24.00	1.306	-	-	-0.14	0.307	0.401
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	21mm	Ant 0	-	DSI 4	507000	2535	22.84	24.00	1.306	-	-	0.05	0.269	0.351
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3 Simultaneous	507000	2535	14.56	15.50	1.242	-	-	-0.18	0.311	0.386
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3 Simultaneous	507000	2535	14.56	15.50	1.242	-	-	-0.16	0.361	0.448
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	507000	2535	18.88	20.30	1.387	-	-	-0.08	0.578	0.802
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	507000	2535	18.85	20.30	1.396	-	-	0.07	0.640	0.894
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	507000	2535	18.70	20.30	1.445	-	-	-0.08	0.553	0.799
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	18.88	20.30	1.387	-	-	0.09	0.883	1.225
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	18.85	20.30	1.396	-	-	-0.02	0.885	1.236
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	DSI 3	507000	2535	18.85	20.30	1.396	-	-	0.02	0.731	1.021
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	18.70	20.30	1.445	-	-	-0.02	0.810	1.171
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	18mm	Ant 1	-	DSI 4	507000	2535	23.56	24.00	1.107	-	-	0.14	0.437	0.484
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	21mm	Ant 1	-	DSI 4	507000	2535	23.56	24.00	1.107	-	-	0.09	0.277	0.307

	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3 Simultaneous	507000	2535	15.25	16.30	1.274	-	-	0.07	0.390	0.497
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3 Simultaneous	507000	2535	15.25	16.30	1.274	-	-	-0.02	0.539	0.686
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	-	DSI 3	519000	2595	19.10	20.10	1.259	-	-	0.05	0.596	0.750
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 1	-	DSI 3	519000	2595	19.04	20.10	1.276	-	-	0.07	0.627	0.800
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Front	5mm	Ant 1	-	DSI 3	519000	2595	18.90	20.10	1.318	-	-	0.09	0.493	0.650
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	519000	2595	19.10	20.10	1.259	-	-	-0.02	0.938	1.181
68	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	519000	2595	19.04	20.10	1.276	-	-	0.01	0.977	**1.247**
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 1	Headset	DSI 3	519000	2595	19.04	20.10	1.276	-	-	0.02	0.744	0.950
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	519000	2595	18.90	20.10	1.318	-	-	0.13	0.750	0.989
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	18mm	Ant 1	-	DSI 4	519000	2595	23.46	24.00	1.132	-	-	0.05	0.258	0.292
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	21mm	Ant 1	-	DSI 4	519000	2595	23.46	24.00	1.132	-	-	0.11	0.349	0.395
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 1	-	DSI 3 Simultaneous	519000	2595	14.61	15.60	1.256	-	-	0.07	0.227	0.285
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3 Simultaneous	519000	2595	14.61	15.60	1.256	-	-	0.01	0.354	0.445

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	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)
3500~3900MHz																					
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	42590	3500	14.64	15.90	1.337	62.9	1.006	-0.09	0.078	0.105
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	42590	3500	14.61	15.90	1.346	62.9	1.006	-0.16	0.090	0.122
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	42590	3500	14.64	15.90	1.337	62.9	1.006	-0.14	0.892	1.199
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	42190	3460	14.59	15.90	1.352	62.9	1.006	0.03	0.831	1.130
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	42990	3540	14.54	15.90	1.368	62.9	1.006	-0.05	0.799	1.099
69	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	42590	3500	14.61	15.90	1.346	62.9	1.006	-0.03	0.929	**1.258**
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	42190	3460	14.55	15.90	1.365	62.9	1.006	0.02	0.905	1.242
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	42990	3540	14.58	15.90	1.355	62.9	1.006	0.07	0.894	1.219
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	5mm	Ant 2	Headset	DSI 3	42590	3500	14.61	15.90	1.346	62.9	1.006	-0.02	0.554	0.750
	LTE Band 42 Part27Q	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	42590	3500	14.57	15.90	1.358	62.9	1.006	0.03	0.826	1.129
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Front	18mm	Ant 2	-	DSI 4	42590	3500	22.03	23.00	1.250	62.9	1.006	0.13	0.065	0.082
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	21mm	Ant 2	-	DSI 4	42990	3540	21.56	23.00	1.393	62.9	1.006	0.12	0.340	0.477
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3 Simultaneous	42590	3500	13.71	14.90	1.315	62.9	1.006	0.06	0.050	0.066
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3 Simultaneous	42990	3540	13.58	14.90	1.355	62.9	1.006	-0.09	0.631	0.976
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	56150	3641	15.72	17.20	1.406	62.9	1.006	0.17	0.071	0.100
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	56150	3641	15.66	17.20	1.426	62.9	1.006	0.18	0.072	0.103
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	56150	3641	15.72	17.20	1.406	62.9	1.006	0.02	0.835	1.181
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	55340	3560	15.63	17.20	1.435	62.9	1.006	0.07	0.806	1.164
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	55830	3609	15.65	17.20	1.429	62.9	1.006	0.19	0.829	1.192
70	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	56640	3690	15.69	17.20	1.416	62.9	1.006	-0.05	0.871	**1.241**
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	Headset	DSI 3	56640	3690	15.69	17.20	1.416	62.9	1.006	0.03	0.821	1.169
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	56150	3641	15.66	17.20	1.426	62.9	1.006	0.13	0.835	1.198
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	55340	3560	15.61	17.20	1.442	62.9	1.006	0.04	0.826	1.198
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	55830	3609	15.60	17.20	1.445	62.9	1.006	-0.04	0.852	1.239
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	56640	3690	15.68	17.20	1.419	62.9	1.006	0.01	0.859	1.226
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	56150	3641	15.62	17.20	1.439	62.9	1.006	-0.01	0.856	1.239
	LTE Band 48	20M	QPSK	50	0	-	Front	18mm	Ant 2	-	DSI 4	56640	3690	21.89	23.00	1.291	62.9	1.006	0.05	0.083	0.108
	LTE Band 48	20M	QPSK	50	0	-	Back	21mm	Ant 2	-	DSI 4	56640	3690	21.89	23.00	1.291	62.9	1.006	0.13	0.358	0.465
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3 Simultaneous	56150	3641	14.71	16.30	1.442	62.9	1.006	0.18	0.053	0.077
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3 Simultaneous	56640	3690	14.77	16.30	1.422	62.9	1.006	-0.17	0.631	0.903
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	656000	3840	12.97	14.40	1.390	-	-	-0.09	0.088	0.122
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	656000	3840	12.95	14.40	1.396	-	-	0.01	0.095	0.133
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	656000	3840	12.97	14.40	1.390	-	-	0.06	0.797	1.108
71	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	656000	3840	12.95	14.40	1.396	-	-	-0.03	0.892	**1.246**
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	Headset	DSI 3	656000	3840	12.95	14.40	1.396	-	-	0.06	0.873	1.219
	FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	656000	3840	12.81	14.40	1.442	-	-	-0.01	0.724	1.044
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	18mm	Ant 2	-	DSI 4	656000	3840	22.20	24.00	1.514	-	-	0.06	0.115	0.174
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	21mm	Ant 2	-	DSI 4	656000	3840	22.20	24.00	1.514	-	-	0.17	0.505	0.764
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3 Simultaneous	656000	3840	11.59	12.90	1.352	-	-	0.01	0.063	0.085
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3 Simultaneous	656000	3840	11.49	12.90	1.384	-	-	0.01	0.063	0.087
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	656000	3840	11.59	12.90	1.352	-	-	-0.07	0.505	0.683
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	656000	3840	11.49	12.90	1.384	-	-	-0.02	0.593	0.820
	FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	656000	3840	11.35	12.90	1.429	-	-	-0.04	0.505	0.722
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	633334	3500.01	13.59	14.40	1.205	-	-	-0.15	0.075	0.090
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	633334	3500.01	13.53	14.40	1.222	-	-	0.04	0.077	0.094
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	13.59	14.40	1.205	-	-	-0.08	0.894	1.077
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	13.53	14.40	1.222	-	-	0.06	0.989	1.208
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	Headset	DSI 3	633334	3500.01	13.53	14.40	1.222	-	-	0.03	0.897	1.096
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	13.31	14.40	1.285	-	-	0.09	0.762	0.979
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	18mm	Ant 2	-	DSI 4	633334	3500.01	23.05	24.00	1.245	-	-	-0.07	0.103	0.128
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	21mm	Ant 2	-	DSI 4	633334	3500.01	23.05	24.00	1.245	-	-	0.08	0.485	0.604
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3 Simultaneous	633334	3500.01	11.98	12.90	1.236	-	-	-0.02	0.057	0.070
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3 Simultaneous	633334	3500.01	11.90	12.90	1.259	-	-	-0.04	0.058	0.073

	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	633334	3500.01	11.98	12.90	1.236	-	-	-0.18	0.674	0.833
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	633334	3500.01	11.90	12.90	1.259	-	-	0.12	0.745	0.938
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	633334	3500.01	11.70	12.90	1.318	-	-	-0.09	0.574	0.757
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	650000	3750	12.98	13.90	1.236	-	-	-0.04	0.092	0.114
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	650000	3750	12.91	13.90	1.256	-	-	0.09	0.098	0.123
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	650000	3750	12.98	13.90	1.236	-	-	-0.03	0.771	0.953
72	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	650000	3750	12.91	13.90	1.256	-	-	0.01	0.998	**1.254**
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	Headset	DSI 3	650000	3750	12.91	13.90	1.256	-	-	0.03	0.936	1.176
	FR1 n78-PC2 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	650000	3750	12.78	13.90	1.294	-	-	0.02	0.698	0.903
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	18mm	Ant 2	-	DSI 4	650000	3750	25.22	27.00	1.507	-	-	0.09	0.197	0.297
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	21mm	Ant 2	-	DSI 4	650000	3750	25.22	27.00	1.507	-	-	-0.18	0.521	0.785
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3 Simultaneous	650000	3750	11.55	13.20	1.462	-	-	0.17	0.049	0.072
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3 Simultaneous	650000	3750	11.43	13.20	1.503	-	-	0.05	0.062	0.093
	FR1 n78-PC2 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3 Simultaneous	650000	3750	11.32	13.20	1.542	-	-	-0.03	0.037	0.057
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	650000	3750	11.55	13.20	1.462	-	-	0.07	0.455	0.665
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	650000	3750	11.43	13.20	1.503	-	-	0.05	0.615	0.924
	FR1 n78-PC2 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	650000	3750	11.32	13.20	1.542			0.03	0.443	0.683
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	633334	3500.01	13.88	13.90	1.005	-	-	-0.04	0.101	0.101
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	633334	3500.01	13.78	13.90	1.028	-	-	0.02	0.098	0.101
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	13.88	13.90	1.005	-	-	-0.01	0.844	0.848
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	13.78	13.90	1.028	-	-	0.08	0.986	1.014
	FR1 n78-PC2 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	13.77	13.90	1.030	-	-	0.03	0.623	0.642
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	18mm	Ant 2	-	DSI 4	633334	3500.01	25.61	27.00	1.377	-	-	0.01	0.121	0.167
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	21mm	Ant 2	-	DSI 4	633334	3500.01	25.61	27.00	1.377	-	-	-0.03	0.547	0.753
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3 Simultaneous	633334	3500.01	12.33	13.20	1.222	-	-	0.03	0.064	0.078
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3 Simultaneous	633334	3500.01	12.24	13.20	1.247	-	-	0.03	0.064	0.080
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	633334	3500.01	12.33	13.20	1.222	-	-	-0.07	0.595	0.727
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	633334	3500.01	12.24	13.20	1.247	-	-	0.16	0.724	0.903
	FR1 n78-PC2 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	633334	3500.01	12.17	13.20	1.268	-	-	-0.18	0.660	0.837

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Duty Cycle %	Pmax	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
3500~3900MHz for SRS Ant																			
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	-	DSI 4	650000	3750	22.81	10	23.00	0.11	0.412	0.043
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	-	DSI 4	650000	3750	22.62	10	23.00	0.06	0.372	0.041
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 4	650000	3750	22.81	10	23.00	-0.05	0.453	0.047
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 4	650000	3750	22.62	10	23.00	0.11	0.428	0.047
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	-	DSI 4	633334	3500.01	22.68	10	23.00	0.08	0.362	0.039
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	-	DSI 4	633334	3500.01	22.44	10	23.00	0.08	0.324	0.037
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 4	633334	3500.01	22.68	10	23.00	-0.07	0.444	0.048
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 4	633334	3500.01	22.44	10	23.00	0.02	0.409	0.047
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	650000	3750	17.59	10	26.00	0.01	0.047	0.033
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	650000	3750	17.30	10	26.00	0.02	0.035	0.026
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	650000	3750	17.59	10	26.00	0.02	0.934	0.648
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	Headset	DSI 3	650000	3750	17.59	10	26.00	0.01	0.821	0.569
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	650000	3750	17.30	10	26.00	0.07	0.619	0.459
	FR1 n78-PC2 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	650000	3750	17.39	10	26.00	-0.05	0.545	0.396
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	18mm	Ant 7	-	DSI 4	650000	3750	25.73	10	26.00	0.01	0.009	0.001
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 7	-	DSI 4	650000	3750	25.73	10	26.00	-0.14	0.097	0.010
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	633334	3500.01	17.84	10	26.00	0.08	0.057	0.037
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	633334	3500.01	17.57	10	26.00	0.02	0.061	0.042
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	633334	3500.01	17.84	10	26.00	0.06	0.994	0.651
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	Headset	DSI 3	633334	3500.01	17.84	10	26.00	0.01	0.811	0.531
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	633334	3500.01	17.57	10	26.00	0.06	0.887	0.618
	FR1 n78-PC2 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	633334	3500.01	17.66	10	26.00	0.11	0.788	0.538
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	18mm	Ant 7	-	DSI 4	633334	3500.01	25.64	10	26.00	-0.14	0.011	0.001

	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 7	-	DSI 4	633334	3500.01	25.64	10	26.00	-0.03	0.066	0.007
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	-	DSI 3	650000	3750	19.27	10	21.90	0.01	0.181	0.033
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	-	DSI 3	650000	3750	19.04	10	21.90	0.06	0.102	0.020
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	650000	3750	19.27	10	21.90	0.02	0.727	0.133
	FR1 n78 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	650000	3750	19.04	10	21.90	0.13	0.610	0.118
	FR1 n78 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	650000	3750	19.07	10	21.90	0.17	0.469	0.090
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	18mm	Ant 8	-	DSI 4	650000	3750	22.00	10	21.90	0.08	0.006	0.001
	FR1 n78 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 8	-	DSI 4	650000	3750	22.00	10	21.90	0.14	0.085	0.008
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	-	DSI 3	633334	3500.01	19.38	10	21.90	-0.06	0.107	0.019
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	-	DSI 3	633334	3500.01	19.22	10	21.90	-0.13	0.125	0.023
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	633334	3500.01	19.38	10	21.90	-0.08	0.916	0.164
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Headset	DSI 3	633334	3500.01	19.38	10	21.90	0.03	0.815	0.146
	FR1 n78 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	633334	3500.01	19.22	10	21.90	-0.07	0.821	0.152
	FR1 n78 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	633334	3500.01	19.20	10	21.90	-0.14	0.722	0.134
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	18mm	Ant 8	-	DSI 4	633334	3500.01	22.19	10	21.90	0.14	0.003	0.000
	FR1 n78 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 8	-	DSI 4	633334	3500.01	22.19	10	21.90	0.12	0.122	0.011

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	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)
							WLAN/Bluetooth										
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 4+6	-	Standalone	11	2462	21.50	23.00	1.412	97.87	1.022	0.05	0.671	0.968
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 4+6	-	Standalone	1	2412	21.70	23.00	1.350	97.87	1.022	0.01	0.460	0.635
73	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	Standalone	11	2462	21.50	23.00	1.412	97.87	1.022	-0.01	0.784	**1.131**
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	Standalone	1	2412	21.70	23.00	1.350	97.87	1.022	-0.15	0.532	0.734
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	DBS Only	11	2462	19.14	20.50	1.367	97.87	1.022	0.04	0.511	0.714
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	WWAN+WLAN	11	2462	18.05	19.50	1.397	97.87	1.022	-0.08	0.388	0.554
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	WWAN+DBS	11	2462	15.33	17.00	1.470	97.87	1.022	0.06	0.188	0.282
	WLAN2.4GHz	802.11b 1Mbps	Front	18mm	Ant 4+6	-	Full Power	11	2462	22.11	23.50	1.377	97.87	1.022	0.03	0.095	0.134
	WLAN2.4GHz	802.11b 1Mbps	Back	21mm	Ant 4+6	-	Full Power	11	2462	22.11	23.50	1.377	97.87	1.022	0.01	0.102	0.144
	Bluetooth	1Mbps	Front	5mm	Ant 4	-	Standalone	0	2402	13.53	14.00	1.115	76.79	1.302	0.18	0.088	0.128
	Bluetooth	1Mbps	Back	5mm	Ant 4	-	Standalone	0	2402	13.53	14.00	1.115	76.79	1.302	0.09	0.118	0.171
	Bluetooth	1Mbps	Front	5mm	Ant 6	-	Full Power	78	2480	15.32	16.50	1.314	76.82	1.302	0.19	0.001	0.002
74	Bluetooth	1Mbps	Back	5mm	Ant 6	-	Full Power	78	2480	15.32	16.50	1.314	76.82	1.302	-0.1	0.188	**0.322**
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+6	-	Standalone	58	5290	15.77	17.50	1.489	100	1.000	0.03	0.439	0.654
75	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	Standalone	58	5290	15.77	17.50	1.489	100	1.000	0.09	0.758	**1.129**
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	DBS Only	58	5290	13.81	15.50	1.476	100	1.000	-0.07	0.508	0.749
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	WWAN+WLAN&WWAN+DBS	58	5290	10.59	11.50	1.233	100	1.000	0.08	0.182	0.224
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	18mm	Ant 5+6	-	Full Power	62	5310	19.00	21.00	1.585	100	1.000	0.01	0.072	0.114
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	21mm	Ant 5+6	-	Full Power	62	5310	19.00	21.00	1.585	100	1.000	0.03	0.219	0.347
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 5+6	-	Standalone	110	5550	19.64	21.00	1.368	100	1.000	0.03	0.403	0.551
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 5+6	-	Standalone	134	5670	19.40	21.00	1.447	100	1.000	-0.06	0.355	0.514
76	WLAN5.5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 5+6	-	Standalone	110	5550	19.64	21.00	1.368	100	1.000	0.08	0.873	**1.195**
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 5+6	-	Standalone	134	5670	19.40	21.00	1.447	100	1.000	0.01	0.690	0.998
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	DBS Only	106	5530	17.23	19.00	1.503	100	1.000	0.13	0.491	0.738
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	WWAN+WLAN&WWAN+DBS	106	5530	13.10	14.50	1.382	100	1.000	0.07	0.200	0.276
	WLAN5.5GHz	802.11a 6Mbps	Front	18mm	Ant 5+6	-	Full Power	124	5620	21.07	22.50	1.389	100	1.000	0.05	0.100	0.139
	WLAN5.5GHz	802.11a 6Mbps	Back	21mm	Ant 5+6	-	Full Power	124	5620	21.07	22.50	1.389	100	1.000	0.04	0.251	0.349
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	5mm	Ant 5+6	-	Standalone	159	5795	19.60	21.00	1.380	100	1.000	0.09	0.424	0.585
77	WLAN5.8GHz	802.11n-HT40 MCS0	Back	5mm	Ant 5+6	-	Standalone	159	5795	19.60	21.00	1.380	100	1.000	0.01	0.863	**1.191**
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	5mm	Ant 5+6	-	Standalone	151	5755	19.54	21.00	1.398	100	1.000	0.11	0.774	1.082
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	DBS Only	155	5775	17.16	19.00	1.528	100	1.000	0.07	0.465	0.710
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	WWAN+WLAN&WWAN+DBS	155	5775	12.30	14.00	1.480	100	1.000	0.03	0.192	0.284
	WLAN5.8GHz	802.11a 6Mbps	Front	18mm	Ant 5+6	-	Full Power	165	5825	21.31	22.50	1.315	100	1.000	0.01	0.098	0.129
	WLAN5.8GHz	802.11a 6Mbps	Back	21mm	Ant 5+6	-	Full Power	165	5825	21.31	22.50	1.315	100	1.000	0.03	0.311	0.409

16.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
835MHz																		
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	189	836.4	28.28	29.50	1.324	0.17	1.310	1.735
78	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	0mm	Ant 1	DSI 6	189	836.4	28.05	29.50	1.396	0.14	1.250	**1.745**
79	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4182	836.4	23.99	25.00	1.262	0.07	1.540	**1.943**
1750MHz																		
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1413	1732.6	20.77	21.80	1.268	-0.13	1.670	2.117
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1312	1712.4	20.71	21.80	1.285	-0.17	1.470	1.889
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1513	1752.6	20.61	21.80	1.315	0.11	1.690	2.223
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1413	1732.6	20.77	21.80	1.268	0.02	1.850	2.345
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1312	1712.4	20.71	21.80	1.285	-0.02	1.630	2.095
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1513	1752.6	20.61	21.80	1.315	0.12	1.830	2.407
80	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1413	1732.6	20.77	21.80	1.268	-0.01	2.470	**3.131**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1312	1712.4	20.71	21.80	1.285	0.14	1.930	2.481
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1513	1752.6	20.61	21.80	1.315	0.04	1.930	2.538
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	1413	1732.6	19.78	20.80	1.265	-0.07	1.790	2.264
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	9mm	Ant 0	DSI 4	1513	1752.6	24.14	25.00	1.219	-0.1	0.329	0.401
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	12mm	Ant 0	DSI 4	1513	1752.6	24.14	25.00	1.219	-0.12	0.681	0.830
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	14mm	Ant 0	DSI 4	1413	1732.6	24.23	25.00	1.194	-0.18	0.893	1.066
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	20.34	21.30	1.247	0.03	1.220	1.522
	LTE Band 66(4)	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	20.18	21.30	1.294	0.01	0.951	1.231
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	20.34	21.30	1.247	0.01	1.120	1.397
	LTE Band 66(4)	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	20.18	21.30	1.294	0.03	0.764	0.989
	LTE Band 66(4)	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	20.34	21.30	1.247	0.04	2.090	2.607
	LTE Band 66(4)	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132072	1720	20.30	21.30	1.259	0.06	2.030	2.556
	LTE Band 66(4)	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	19.96	21.30	1.361	-0.06	2.210	3.009
	LTE Band 66(4)	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	20.18	21.30	1.294	0.07	1.700	2.200
	LTE Band 66(4)	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132072	1720	19.98	21.30	1.355	0.15	1.550	2.101
	LTE Band 66(4)	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	19.95	21.30	1.365	0.16	1.680	2.292
	LTE Band 66(4)	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	20.12	21.30	1.312	0.17	1.500	1.968
	LTE Band 66(4)	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	132572	1770	18.98	20.30	1.355	-0.05	1.770	2.399
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	9mm	Ant 0	DSI 4	132322	1745	23.15	24.00	1.216	0.07	0.817	0.994
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	12mm	Ant 0	DSI 4	132322	1745	23.15	24.00	1.216	0.09	0.622	0.756
	LTE Band 66(4)	20M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 4	132572	1770	22.89	24.00	1.291	0.05	0.831	1.073
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	20.06	21.40	1.361	-0.09	1.530	2.083
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132072	1720	19.99	21.40	1.384	0.05	1.550	2.145
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132572	1770	20.01	21.40	1.377	0.14	1.670	2.300
	LTE Band 66(4)	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	20.03	21.40	1.371	0.08	1.290	1.768
	LTE Band 66(4)	20M	QPSK	100	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	19.98	21.40	1.387	0.03	1.280	1.775
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	20.06	21.40	1.361	-0.1	1.200	1.634
	LTE Band 66(4)	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	20.03	21.40	1.371	0.15	1.050	1.439
81	LTE Band 66(4)	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	20.06	21.40	1.361	-0.03	2.290	**3.118**
	LTE Band 66(4)	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132072	1720	19.99	21.40	1.384	-0.02	2.110	2.919
	LTE Band 66(4)	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132572	1770	20.01	21.40	1.377	0.02	2.120	2.920
	LTE Band 66(4)	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	20.03	21.40	1.371	0.06	1.770	2.426
	LTE Band 66(4)	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132072	1720	19.93	21.40	1.403	-0.12	1.840	2.581
	LTE Band 66(4)	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132572	1770	20.00	21.40	1.380	-0.09	1.740	2.402
	LTE Band 66(4)	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	19.98	21.40	1.387	-0.06	1.780	2.468
	LTE Band 66(4)	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6 Simultaneous	132322	1745	18.52	19.90	1.374	-0.03	1.670	2.295
	LTE Band 66(4)	20M	QPSK	1	0	-	Front	9mm	Ant 1	DSI 4	132572	1770	22.01	23.00	1.256	0.04	0.731	0.918
	LTE Band 66(4)	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	132322	1745	22.05	23.00	1.245	0.06	0.644	0.801
	LTE Band 66(4)	20M	QPSK	1	0	-	Top Side	13mm	Ant 1	DSI 4	132322	1745	22.05	23.00	1.245	-0.08	0.715	0.890

	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	19.77	21.00	1.327	-0.14	1.560	2.071
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	19.75	21.00	1.334	0.09	1.740	2.320
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	19.64	21.00	1.368	-0.03	1.670	2.284
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	349000	1745	19.77	21.00	1.327	0.08	1.320	1.752
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	349000	1745	19.75	21.00	1.334	0.08	1.480	1.974
82	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	19.77	21.00	1.327	-0.06	2.340	**3.106**
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	19.75	21.00	1.334	0.1	2.230	2.974
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	19.64	21.00	1.368	0.09	2.270	3.105
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6 Simultaneous	349000	1745	18.73	20.00	1.340	-0.07	1.630	2.184
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	9mm	Ant 1	DSI 4	349000	1745	23.62	24.00	1.091	0.16	0.719	0.785
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	9mm	Ant 1	DSI 4	349000	1745	23.56	24.00	1.107	-0.06	0.723	0.800
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	12mm	Ant 1	DSI 4	349000	1745	23.62	24.00	1.091	-0.14	0.561	0.612
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	12mm	Ant 1	DSI 4	349000	1745	23.56	24.00	1.107	0.07	0.617	0.683
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	13mm	Ant 1	DSI 4	349000	1745	23.62	24.00	1.091	0.09	0.730	0.797

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
								1900MHz										
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 0	DSI 6	661	1880	25.07	26.00	1.239	0.09	1.740	2.156
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 0	DSI 6	512	1850.2	24.95	26.00	1.274	0.04	2.230	2.840
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 0	DSI 6	810	1909.8	24.90	26.00	1.288	0.05	1.990	2.564
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	661	1880	25.07	26.00	1.239	0.05	2.000	2.478
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	512	1850.2	24.95	26.00	1.274	0.04	2.340	2.980
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	810	1909.8	24.90	26.00	1.288	0.09	2.020	2.602
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	661	1880	25.07	26.00	1.239	0.05	1.660	2.056
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	512	1850.2	24.95	26.00	1.274	0.03	1.730	2.203
83	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	810	1909.8	24.90	26.00	1.288	0.06	2.410	**3.105**
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	810	1909.8	22.33	23.70	1.371	0.06	1.750	2.399
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	9mm	Ant 0	DSI 4	512	1850.2	25.33	26.50	1.309	0.07	0.505	0.661
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	12mm	Ant 0	DSI 4	512	1850.2	25.33	26.50	1.309	0.12	0.419	0.549
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	14mm	Ant 0	DSI 4	810	1909.8	25.19	26.50	1.352	0.13	0.504	0.681
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	9400	1880	20.25	21.20	1.245	0.04	1.350	1.680
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9400	1880	20.25	21.20	1.245	0.05	1.520	1.892
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9400	1880	20.25	21.20	1.245	0.05	1.660	2.066
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9262	1852.4	20.19	21.20	1.262	0.12	2.110	2.662
84	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9538	1907.6	20.21	21.20	1.256	0.01	2.490	**3.128**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	9538	1907.6	18.69	19.70	1.262	0.08	1.750	2.208
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	9mm	Ant 0	DSI 4	9400	1880	24.24	25.00	1.191	0.04	0.733	0.873
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	12mm	Ant 0	DSI 4	9400	1880	24.24	25.00	1.191	0.07	0.577	0.687
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	14mm	Ant 0	DSI 4	9538	1907.6	24.18	25.00	1.208	-0.06	0.925	1.117
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	26340	1880	22.51	23.50	1.256	0.05	1.430	1.796
	LTE Band 25(2)	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	26340	1880	22.05	23.50	1.396	0.04	1.130	1.578
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	22.51	23.50	1.256	0.08	1.500	1.884
	LTE Band 25(2)	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	22.05	23.50	1.396	0.18	1.220	1.704
	LTE Band 25(2)	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26340	1880	22.51	23.50	1.256	0.09	2.200	2.763
85	LTE Band 25(2)	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26140	1860	22.22	23.50	1.343	-0.1	2.340	**3.142**
	LTE Band 25(2)	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26590	1905	22.31	23.50	1.315	0.05	2.120	2.788
	LTE Band 25(2)	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	26340	1880	22.05	23.50	1.396	-0.19	1.740	2.430
	LTE Band 25(2)	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	26140	1860	21.97	23.50	1.422	-0.09	1.880	2.674
	LTE Band 25(2)	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	26590	1905	22.00	23.50	1.413	0.03	1.660	2.345
	LTE Band 25(2)	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	26340	1880	22.02	23.50	1.406	-0.09	1.710	2.404
	LTE Band 25(2)	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	26140	1860	20.78	22.00	1.324	-0.07	1.710	2.265
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	9mm	Ant 0	DSI 4	26340	1880	22.89	24.00	1.291	0.09	0.855	1.104
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	12mm	Ant 0	DSI 4	26340	1880	22.89	24.00	1.291	-0.18	0.680	0.878

	LTE Band 25(2)	20M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 4	26140	1860	22.80	24.00	1.318	0.04	1.030	1.358
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	26340	1880	22.11	23.50	1.377	0.02	1.090	1.501
	LTE Band 25(2)	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	26340	1880	21.83	23.00	1.309	0.14	0.895	1.172
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	26340	1880	22.11	23.50	1.377	0.11	0.984	1.355
	LTE Band 25(2)	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	26340	1880	21.83	23.00	1.309	0.07	0.774	1.013
	LTE Band 25(2)	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	26340	1880	22.11	23.50	1.377	-0.08	2.160	2.975
	LTE Band 25(2)	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	26140	1860	22.01	23.50	1.409	-0.08	2.220	3.129
	LTE Band 25(2)	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	26590	1905	22.03	23.50	1.403	-0.04	2.190	3.072
	LTE Band 25(2)	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	26340	1880	21.83	23.00	1.309	-0.09	1.730	2.265
	LTE Band 25(2)	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	26140	1860	21.73	23.00	1.340	0.1	1.750	2.344
	LTE Band 25(2)	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	26590	1905	21.75	23.00	1.334	0.01	1.780	2.374
	LTE Band 25(2)	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	26340	1880	21.79	23.00	1.321	-0.1	1.760	2.325
	LTE Band 25(2)	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6 Simultaneous	26140	1860	20.51	22.00	1.409	0.05	1.680	2.368
	LTE Band 25(2)	20M	QPSK	1	0	-	Front	9mm	Ant 1	DSI 4	26340	1880	23.28	24.00	1.180	-0.01	0.435	0.513
	LTE Band 25(2)	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	26340	1880	23.28	24.00	1.180	0.02	0.360	0.425
	LTE Band 25(2)	20M	QPSK	1	0	-	Top Side	13mm	Ant 1	DSI 4	26140	1860	23.13	24.00	1.222	0.09	0.504	0.616

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	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 10g SAR (W/kg)	Reported 10g SAR (W/kg)
										2600MHz										
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	21100	2535	23.46	24.00	1.132	-	-	-0.06	1.460	1.653
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	21100	2535	23.44	24.00	1.138	-	-	-0.06	1.180	1.342
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	21100	2535	23.46	24.00	1.132	-	-	0.12	2.110	2.389
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	20850	2510	23.21	24.00	1.199	-	-	0.01	2.300	2.759
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	21350	2560	23.40	24.00	1.148	-	-	-0.05	2.250	2.583
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	21100	2535	23.44	24.00	1.138	-	-	0.08	1.880	2.139
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	20850	2510	23.31	24.00	1.172	-	-	0.18	1.890	2.215
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	21350	2560	23.38	24.00	1.153	-	-	0.15	1.830	2.111
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	21100	2535	23.40	24.00	1.148	-	-	0.08	1.850	2.124
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	23.46	24.00	1.132	-	-	-0.08	2.480	2.808
	LTE Band 7C	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100+21298	2535+2554.8	23.32	24.00	1.169	-	-	0.03	2.110	2.468
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	20850	2510	23.21	24.00	1.199	-	-	0.07	2.300	2.759
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	21350	2560	23.40	24.00	1.148	-	-	0.03	2.250	2.583
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	23.44	24.00	1.138	-	-	0.1	2.000	2.275
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	20850	2510	23.31	24.00	1.172	-	-	-0.02	1.870	2.192
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	21350	2560	23.38	24.00	1.153	-	-	0.07	1.990	2.295
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	23.40	24.00	1.148	-	-	0.09	2.000	2.296
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	21100	2535	22.09	22.90	1.205	-	-	0.06	1.730	2.085
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	19.75	20.70	1.245	-	-	-0.15	1.170	1.456
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	19.59	20.70	1.291	-	-	0.07	0.958	1.237
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	19.75	20.70	1.245	-	-	-0.15	1.190	1.481
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	19.59	20.70	1.291	-	-	-0.19	0.970	1.252
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	21100	2535	19.75	20.70	1.245	-	-	0.14	2.260	2.813
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	20850	2510	19.65	20.70	1.274	-	-	0.03	2.360	3.005
86	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	21350	2560	19.70	20.70	1.259	-	-	-0.09	2.470	**3.110**
	LTE Band 7C	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	21350+21152	2560+2579.8	19.63	20.70	1.279	-	-	0.03	2.010	2.572
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	21100	2535	19.59	20.70	1.291	-	-	0.04	1.990	2.570
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	20850	2510	19.45	20.70	1.334	-	-	0.01	1.930	2.574
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	21350	2560	19.55	20.70	1.303	-	-	0.08	1.990	2.593
	LTE Band 7	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	21100	2535	19.58	20.70	1.294	-	-	0.12	2.000	2.588
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6 Simultaneous	21350	2560	18.11	19.20	1.285	-	-	-0.07	1.730	2.224
	LTE Band 7	20M	QPSK	1	0	-	Front	9mm	Ant 1	DSI 4	21100	2535	22.71	24.00	1.346	-	-	-0.14	0.413	0.556
	LTE Band 7	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	21100	2535	22.71	24.00	1.346	-	-	-0.13	0.383	0.515
	LTE Band 7	20M	QPSK	1	0	-	Top Side	13mm	Ant 1	DSI 4	21350	2560	22.67	24.00	1.358	-	-	-0.09	0.556	0.755
	LTE Band 38	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	38000	2595	23.49	24.00	1.125	62.9	1.006	-0.02	0.805	0.911

	LTE Band 38	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	38000	2595	23.43	24.00	1.140	62.9	1.006	0.09	0.913	1.159
	LTE Band 38	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	38000	2595	23.49	24.00	1.125	62.9	1.006	0.03	1.370	1.550
	LTE Band 38	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	38000	2595	23.43	24.00	1.140	62.9	1.006	-0.09	1.320	1.514
	LTE Band 38	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	38000	2595	23.49	24.00	1.125	62.9	1.006	-0.08	1.140	1.414
	LTE Band 38	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	38000	2595	23.43	24.00	1.140	62.9	1.006	0.02	1.040	1.193
	LTE Band 38-PC2	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	38000	2595	26.41	27.00	1.146	42.9	1.009	0.07	1.660	1.919
	LTE Band 38	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	38000	2595	21.98	23.30	1.355	62.9	1.006	0.04	0.834	1.137
	LTE Band 38	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	38000	2595	21.96	23.30	1.361	62.9	1.006	0.05	0.953	1.305
	LTE Band 38	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	38000	2595	21.98	23.30	1.355	62.9	1.006	-0.08	1.110	1.513
	LTE Band 38	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	38000	2595	21.96	23.30	1.361	62.9	1.006	0.12	1.120	1.534
	LTE Band 38	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	38000	2595	21.98	23.30	1.355	62.9	1.006	0.16	1.950	2.658
	LTE Band 38	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	37850	2580	21.73	23.30	1.435	62.9	1.006	0.05	1.980	2.859
	LTE Band 38	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	38150	2610	21.72	23.30	1.439	62.9	1.006	0.06	2.030	2.938
87	LTE Band 38-PC2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	38150	2610	23.82	24.90	1.282	42.9	1.009	-0.03	2.420	**3.131**
	LTE Band 38	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	38000	2595	21.96	23.30	1.361	62.9	1.006	-0.01	1.970	2.698
	LTE Band 38	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	37850	2580	21.73	23.30	1.435	62.9	1.006	-0.06	1.980	2.859
	LTE Band 38	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	38150	2610	21.83	23.30	1.403	62.9	1.006	0.04	1.990	2.808
	LTE Band 38	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	38000	2595	21.93	23.30	1.371	62.9	1.006	0.01	2.000	2.758
	LTE Band 38	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6 Simultaneous	38150	2610	20.32	21.80	1.406	62.9	1.006	0.11	1.610	2.277
	LTE Band 38-PC2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6 Simultaneous	38150	2610	22.34	23.40	1.276	42.9	1.009	-0.05	1.800	2.318
	LTE Band 38	20M	QPSK	1	0	-	Front	9mm	Ant 1	DSI 4	38000	2595	22.89	24.00	1.291	62.9	1.006	-0.18	0.197	0.256
	LTE Band 38	20M	QPSK	50	0		Front	9mm	Ant 1	DSI 4	38000	2595	22.85	24.00	1.303	62.9	1.006	0.02	0.165	0.216
	LTE Band 38	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	38000	2595	22.89	24.00	1.291	62.9	1.006	-0.03	0.220	0.286
	LTE Band 38	20M	QPSK	50	0		Back	12mm	Ant 1	DSI 4	38000	2595	22.85	24.00	1.303	62.9	1.006	0.09	0.215	0.282
	LTE Band 38	20M	QPSK	1	0	-	Top Side	13mm	Ant 1	DSI 4	38150	2610	22.72	24.00	1.343	62.9	1.006	0.16	0.351	0.474
	LTE Band 38-PC2	20M	QPSK	1	0	-	Front	9mm	Ant 1	DSI 4	38000	2595	25.68	26.50	1.208	42.9	1.009	-0.18	0.201	0.245
	LTE Band 38-PC2	20M	QPSK	50	0		Front	9mm	Ant 1	DSI 4	38000	2595	25.56	26.50	1.242	42.9	1.009	0.03	0.188	0.236
	LTE Band 38-PC2	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	38000	2595	25.68	26.50	1.208	42.9	1.009	-0.03	0.239	0.291
	LTE Band 38-PC2	20M	QPSK	50	0		Back	12mm	Ant 1	DSI 4	38000	2595	25.56	26.50	1.242	42.9	1.009	0.05	0.233	0.292
	LTE Band 38-PC2	20M	QPSK	1	0	-	Top Side	13mm	Ant 1	DSI 4	38150	2610	25.50	26.50	1.259	42.9	1.009	0.16	0.391	0.497
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	40620	2593	23.64	24.00	1.086	62.9	1.006	0.18	1.520	1.661
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	39750	2506	23.28	24.00	1.180	62.9	1.006	0.02	1.580	1.876
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	40185	2549.5	23.14	24.00	1.219	62.9	1.006	0.02	1.340	1.643
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	41055	2636.5	23.33	24.00	1.167	62.9	1.006	0.04	1.110	1.303
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	41490	2680	23.53	24.00	1.114	62.9	1.006	-0.03	0.991	1.111
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	40620	2593	23.35	24.00	1.161	62.9	1.006	0.03	1.140	1.332
	LTE Band 41	20M	QPSK	100	0	-	Front	0mm	Ant 0	DSI 6	40620	2593	23.34	24.00	1.164	62.9	1.006	-0.02	1.050	1.230
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	40620	2593	23.64	24.00	1.086	62.9	1.006	0.08	1.890	2.066
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	39750	2506	23.28	24.00	1.180	62.9	1.006	-0.05	1.910	2.268
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	40185	2549.5	23.14	24.00	1.219	62.9	1.006	0.06	1.850	2.269
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	41055	2636.5	23.33	24.00	1.167	62.9	1.006	0.09	1.940	2.277
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	41490	2680	23.53	24.00	1.114	62.9	1.006	0.06	1.830	2.051
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	40620	2593	23.35	24.00	1.161	62.9	1.006	-0.07	1.670	1.951
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	39750	2506	23.17	24.00	1.211	62.9	1.006	0.05	1.710	2.083
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	40185	2549.5	23.14	24.00	1.219	62.9	1.006	0.09	1.700	2.085
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	41055	2636.5	23.20	24.00	1.202	62.9	1.006	-0.19	1.550	1.875
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	41490	2680	23.34	24.00	1.164	62.9	1.006	0.08	1.480	1.733
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	40620	2593	23.34	24.00	1.164	62.9	1.006	0.03	1.670	1.956
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	23.64	24.00	1.086	62.9	1.006	-0.02	2.250	2.459
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	39750	2506	23.28	24.00	1.180	62.9	1.006	0.07	2.070	2.458
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	40185	2549.5	23.14	24.00	1.219	62.9	1.006	0.09	1.880	2.305
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	41055	2636.5	23.33	24.00	1.167	62.9	1.006	0.18	1.990	2.336
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	41490	2680	23.53	24.00	1.114	62.9	1.006	0.18	1.880	2.107
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	23.35	24.00	1.161	62.9	1.006	0.04	1.800	2.103
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	39750	2506	23.17	24.00	1.211	62.9	1.006	-0.18	1.650	2.009
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	40185	2549.5	23.14	24.00	1.219	62.9	1.006	-0.1	1.620	1.987

	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	41055	2636.5	23.20	24.00	1.202	62.9	1.006	0.06	1.670	2.020
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	41490	2680	23.34	24.00	1.164	62.9	1.006	-0.08	1.600	1.874
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	23.34	24.00	1.164	62.9	1.006	0.07	1.720	2.014
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	40620	2593	23.24	23.50	1.062	62.9	1.006	-0.07	1.620	1.730
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	21.65	22.80	1.303	62.9	1.006	-0.13	1.060	1.390
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	21.56	22.80	1.330	62.9	1.006	0.04	1.030	1.379
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	21.65	22.80	1.303	62.9	1.006	0.11	1.090	1.429
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	21.56	22.80	1.330	62.9	1.006	-0.07	1.060	1.419
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	21.65	22.80	1.303	62.9	1.006	-0.1	2.350	3.081
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	39750	2506	21.29	22.80	1.416	62.9	1.006	-0.05	2.140	3.048
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	40185	2549.5	21.38	22.80	1.387	62.9	1.006	-0.11	2.130	2.972
88	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	41055	2636.5	21.62	22.80	1.312	62.9	1.006	-0.03	2.370	**3.129**
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	41490	2680	21.46	22.80	1.361	62.9	1.006	-0.09	2.170	2.972
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	21.56	22.80	1.330	62.9	1.006	-0.15	1.920	2.570
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	39750	2506	21.28	22.80	1.419	62.9	1.006	-0.05	1.850	2.641
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	40185	2549.5	21.51	22.80	1.346	62.9	1.006	-0.18	1.910	2.586
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	41055	2636.5	21.36	22.80	1.393	62.9	1.006	-0.11	1.900	2.663
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	41490	2680	21.45	22.80	1.365	62.9	1.006	0.07	1.880	2.581
	LTE Band 41	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	21.54	22.80	1.337	62.9	1.006	-0.03	1.930	2.595
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6 Simultaneous	41055	2636.5	20.13	21.30	1.309	62.9	1.006	-0.07	1.690	2.226
	LTE Band 41	20M	QPSK	1	0	-	Front	9mm	Ant 1	DSI 4	40620	2593	22.98	24.00	1.265	62.9	1.006	0.13	0.198	0.252
	LTE Band 41	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	40620	2593	22.98	24.00	1.265	62.9	1.006	0.07	0.211	0.268
	LTE Band 41	20M	QPSK	1	0	-	Top Side	13mm	Ant 1	DSI 4	41055	2636.5	22.56	24.00	1.393	62.9	1.006	0.03	0.323	0.453
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	507000	2535	22.84	24.00	1.306	-	-	0.04	1.480	1.933
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	507000	2535	22.71	24.00	1.346	-	-	-0.12	1.320	1.777
89	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	507000	2535	22.84	24.00	1.306	-	-	0.06	2.380	**3.109**
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	507000	2535	22.71	24.00	1.346	-	-	0.06	2.190	2.947
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	507000	2535	22.32	24.00	1.472	-	-	0.05	2.110	3.107
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	507000	2535	22.84	24.00	1.306	-	-	0.04	1.710	2.234
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	507000	2535	22.71	24.00	1.346	-	-	0.03	1.590	2.140
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	507000	2535	22.32	24.00	1.472	-	-	-0.07	1.620	2.385
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6 Simultaneous	507000	2535	21.48	22.50	1.265	-	-	0.04	1.750	2.213
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	19.33	20.70	1.371	-	-	0.02	1.130	1.549
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	19.31	20.70	1.377	-	-	0.14	1.180	1.625
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	19.33	20.70	1.371	-	-	-0.05	1.100	1.508
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	19.31	20.70	1.377	-	-	-0.13	1.150	1.584
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	19.33	20.70	1.371	-	-	0.09	2.250	3.084
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	19.31	20.70	1.377	-	-	0.08	2.030	2.796
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	19.24	20.70	1.400	-	-	-0.12	2.000	2.799
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6 Simultaneous	507000	2535	18.27	19.70	1.390	-	-	-0.02	1.680	2.335
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	9mm	Ant 1	DSI 4	507000	2535	23.60	24.00	1.096	-	-	-0.11	0.457	0.501
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	12mm	Ant 1	DSI 4	507000	2535	23.60	24.00	1.096	-	-	0.03	0.428	0.469
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	13mm	Ant 1	DSI 4	507000	2535	23.60	24.00	1.096	-	-	0.16	0.549	0.602
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	519000	2595	20.05	21.10	1.274	-	-	0.05	1.530	1.948
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	519000	2595	20.03	21.10	1.279	-	-	0.13	1.400	1.791
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	519000	2595	20.05	21.10	1.274	-	-	-0.02	1.610	2.050
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	519000	2595	20.03	21.10	1.279	-	-	0.02	1.570	2.009
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	519000	2595	19.87	21.10	1.327	-	-	0.04	1.250	1.659
90	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 1	DSI 6	519000	2595	20.05	21.10	1.274	-	-	0.04	2.450	**3.120**
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	0mm	Ant 1	DSI 6	519000	2595	20.03	21.10	1.279	-	-	-0.04	2.200	2.815
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Top Side	0mm	Ant 1	DSI 6	519000	2595	19.87	21.10	1.327	-	-	-0.03	1.750	2.323
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 1	DSI 6 Simultaneous	519000	2595	18.52	19.60	1.282	-	-	0.01	1.750	2.244
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	9mm	Ant 1	DSI 4	519000	2595	23.55	24.00	1.109	-	-	0.08	0.451	0.500
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	12mm	Ant 1	DSI 4	519000	2595	23.55	24.00	1.109	-	-	0.06	0.480	0.532
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	13mm	Ant 1	DSI 4	519000	2595	23.55	24.00	1.109	-	-	-0.13	0.769	0.853

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	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 10g SAR (W/kg)	Reported 10g SAR (W/kg)
3500~3900MHz																				
91	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	42590	3500	19.62	20.80	1.312	62.9	1.006	0.14	2.370	**3.129**
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	42190	3460	19.51	20.80	1.346	62.9	1.006	0.03	2.310	3.128
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	42990	3540	19.33	20.80	1.403	62.9	1.006	0.01	2.090	2.949
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	42590	3500	19.59	20.80	1.321	62.9	1.006	0.16	2.260	3.004
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	42190	3460	19.54	20.80	1.337	62.9	1.006	0.09	2.210	2.972
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	42990	3540	19.44	20.80	1.368	62.9	1.006	0.11	2.190	3.013
	LTE Band 42 Part27Q	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	42590	3500	19.57	20.80	1.327	62.9	1.006	0.15	2.210	2.951
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 6	42590	3500	19.62	20.80	1.312	62.9	1.006	-0.11	0.745	0.983
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 6	42590	3500	19.59	20.80	1.321	62.9	1.006	0.18	0.733	0.974
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6 Simultaneous	42590	3500	18.13	19.30	1.309	62.9	1.006	-0.06	1.710	2.252
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	17mm	Ant 2	DSI 4	42590	3500	22.03	23.00	1.250	62.9	1.006	-0.01	0.190	0.239
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Left Side	19mm	Ant 2	DSI 4	42590	3500	22.03	23.00	1.250	62.9	1.006	-0.11	0.150	0.189
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	56150	3641	19.81	21.10	1.346	62.9	1.006	-0.19	1.990	2.694
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	55340	3560	19.77	21.10	1.358	62.9	1.006	0.06	2.130	2.911
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	55830	3609	19.69	21.10	1.384	62.9	1.006	0.04	2.100	2.923
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	56640	3690	19.69	21.10	1.384	62.9	1.006	-0.08	2.000	2.784
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	56150	3641	19.68	21.10	1.387	62.9	1.006	-0.08	2.130	2.972
92	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	55340	3560	19.63	21.10	1.403	62.9	1.006	-0.02	2.290	**3.232**
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	55830	3609	19.60	21.10	1.413	62.9	1.006	0.16	2.040	2.899
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	56640	3690	19.60	21.10	1.413	62.9	1.006	0.06	2.050	2.913
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	56150	3641	19.61	21.10	1.409	62.9	1.006	-0.16	2.110	2.991
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 6	56150	3641	19.81	21.10	1.346	62.9	1.006	0.01	0.845	1.144
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 6	56150	3641	19.68	21.10	1.387	62.9	1.006	0.02	0.805	1.123
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6 Simultaneous	55340	3560	18.17	19.60	1.390	62.9	1.006	-0.03	1.620	2.265
	LTE Band 48	20M	QPSK	1	0	-	Back	17mm	Ant 2	DSI 4	55340	3560	22.92	24.00	1.282	62.9	1.006	0.06	0.198	0.255
	LTE Band 48	20M	QPSK	50	0	-	Back	17mm	Ant 2	DSI 4	55340	3560	21.82	24.00	1.652	62.9	1.006	0.14	0.210	0.349
	LTE Band 48	20M	QPSK	1	0	-	Left Side	19mm	Ant 2	DSI 4	56150	3641	23.04	24.00	1.247	62.9	1.006	0.16	0.153	0.192
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	656000	3840	17.41	19.00	1.442	-	-	0.18	2.070	2.985
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	656000	3840	17.35	19.00	1.462	-	-	-0.14	1.640	2.398
	FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	656000	3840	17.29	19.00	1.483	-	-	0.03	1.530	2.268
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	656000	3840	17.41	19.00	1.442	-	-	-0.04	0.910	1.312
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	656000	3840	17.35	19.00	1.462	-	-	-0.01	0.860	1.257
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6 Simultaneous	656000	3840	16.46	17.70	1.330	-	-	0.09	1.560	2.076
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	17mm	Ant 2	DSI 4	656000	3840	22.46	24.00	1.426	-	-	0.04	0.065	0.093
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	19mm	Ant 2	DSI 4	656000	3840	22.46	24.00	1.426	-	-	0.14	0.239	0.341
93	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	18.03	19.00	1.250	-	-	-0.03	2.46	**3.076**
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.91	19.00	1.285	-	-	0.07	2.33	2.995
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.72	19.00	1.343	-	-	0.01	1.93	2.592
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	633334	3500.01	18.03	19.00	1.250	-	-	0.05	0.820	1.025
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	633334	3500.01	17.91	19.00	1.285	-	-	-0.03	0.820	1.054
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6 Simultaneous	633334	3500.01	17.05	17.70	1.161	-	-	0.07	1.76	2.044
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	17mm	Ant 2	DSI 4	633334	3500.01	23.12	24.00	1.225	-	-	0.05	0.283	0.347
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	19mm	Ant 2	DSI 4	633334	3500.01	23.12	24.00	1.225	-	-	0.03	0.195	0.239
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	650000	3750	17.61	19.00	1.377	-	-	0.09	1.91	2.630
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	650000	3750	17.49	19.00	1.416	-	-	0.17	2.130	3.016
	FR1 n78-PC2 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	650000	3750	17.39	19.00	1.449	-	-	0.01	1.76	2.550
	FR1 n78-PC2 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	650000	3750	17.61	19.00	1.377	-	-	0.03	0.95	1.308
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	650000	3750	17.49	19.00	1.416	-	-	0.03	1.04	1.472
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6 Simultaneous	650000	3750	17.02	17.70	1.169	-	-	0.04	1.48	1.731
	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	17mm	Ant 2	DSI 4	650000	3750	25.22	27.00	1.507	-	-	0.01	0.593	0.893

	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	19mm	Ant 2	DSI 4	650000	3750	25.22	27.00	1.507	-	-	0.06	0.411	0.619
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	18.11	19.00	1.227	-	-	0.03	1.990	2.443
94	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.84	19.00	1.306	-	-	0.03	2.390	**3.122**
	FR1 n78-PC2 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.80	19.00	1.318	-	-	-0.14	1.770	2.333
	FR1 n78-PC2 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	633334	3500.01	18.11	19.00	1.227	-	-	0.05	1.050	1.289
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	633334	3500.01	17.84	19.00	1.306	-	-	0.02	1.130	1.476
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6 Simultaneous	633334	3500.01	17.04	17.70	1.164	-	-	0.02	1.750	2.037
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	17mm	Ant 2	DSI 4	633334	3500.01	25.61	27.00	1.377	-	-	0.06	0.628	0.865
	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	19mm	Ant 2	DSI 4	633334	3500.01	25.61	27.00	1.377	-	-	-0.09	0.431	0.594

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 10g SAR (W/kg)	Reported 10g SAR (W/kg)
WLAN																
95	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 4+6	Full Power	11	2462	22.11	23.50	1.377	97.87	1.022	0.04	1.510	**2.125**
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 4+6	Full Power	1	2412	22.10	23.50	1.381	97.87	1.022	0.19	1.450	2.046
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 4+6	Full Power	11	2462	22.11	23.50	1.377	97.87	1.022	-0.02	1.320	1.858
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 4+6	DBS only	11	2462	21.50	23.00	1.413	97.87	1.022	0.1	1.220	1.761
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 4+6	WWAN+WLAN	11	2462	20.62	22.00	1.374	97.87	1.022	0.08	0.998	1.401
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 4+6	WWAN+DBS	11	2462	17.56	19.00	1.393	97.87	1.022	0.15	0.521	0.742
	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 5+6	Full Power	48	5240	20.94	22.50	1.432	100	1.000	-0.18	1.000	1.432
	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 5+6	Full Power	44	5220	20.83	22.50	1.469	100	1.000	0.12	1.220	1.792
96	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+6	Full Power	48	5240	20.94	22.50	1.432	100	1.000	-0.09	1.540	**2.206**
	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+6	Full Power	44	5220	20.83	22.50	1.469	100	1.000	0.14	1.340	1.968
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6	DBS only	46	5230	19.93	21.50	1.435	100	1.000	0.18	1.210	1.737
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	WWAN+WLAN	42	5210	18.73	20.50	1.503	100	1.000	-0.16	0.925	1.391
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	WWAN+DBS	42	5210	15.51	17.50	1.581	100	1.000	-0.14	0.450	0.712
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+6	Full Power	62	5310	19.00	21.00	1.585	100	1.000	0.09	0.444	0.704
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+6	Full Power	62	5310	19.00	21.00	1.585	100	1.000	0.17	1.060	1.680
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 5+6	Full Power	62	5310	19.00	21.00	1.585	100	1.000	0.04	0.330	0.523
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+6	Full Power	62	5310	19.00	21.00	1.585	100	1.000	0.01	0.266	0.422
97	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6	Full Power	62	5310	19.00	21.00	1.585	100	1.000	0.03	1.920	**3.043**
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6	Full Power	54	5270	18.88	21.00	1.629	100	1.000	-0.08	1.830	2.982
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	DBS only	62	5310	17.31	19.00	1.476	100	1.000	0.03	1.170	1.727
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	WWAN+WLAN	58	5290	15.77	17.50	1.489	100	1.000	-0.16	0.878	1.308
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	WWAN+DBS	58	5290	13.81	15.50	1.476	100	1.000	-0.14	0.487	0.719
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 5+6	Full Power	124	5620	21.07	22.50	1.389	100	1.000	0.17	0.777	1.079
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 5+6	Full Power	124	5620	21.07	22.50	1.389	100	1.000	0.05	1.220	1.695
	WLAN5.5GHz	802.11a 6Mbps	Left Side	0mm	Ant 5+6	Full Power	124	5620	21.07	22.50	1.389	100	1.000	-0.03	0.412	0.572
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+6	Full Power	124	5620	21.07	22.50	1.389	100	1.000	0.07	0.193	0.268
98	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+6	Full Power	124	5620	21.07	22.50	1.389	100	1.000	0.05	2.010	**2.792**
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+6	Full Power	116	5580	21.06	22.50	1.393	100	1.000	0.03	1.960	2.731
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	DBS only	122	5610	18.54	20.00	1.401	100	1.000	-0.07	1.200	1.681
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	WWAN+WLAN	122	5610	13.16	14.50	1.363	100	1.000	0.16	0.902	1.229
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	WWAN+DBS	122	5610	14.46	16.00	1.427	100	1.000	-0.18	0.488	0.696
	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 5+6	Full Power	165	5825	21.31	22.50	1.315	100	1.000	0.04	0.769	1.011
99	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+6	Full Power	165	5825	21.31	22.50	1.315	100	1.000	0.03	1.590	**2.091**
	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+6	Full Power	157	5785	21.06	22.50	1.393	100	1.000	0.05	1.240	1.728
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6	DBS only	159	5795	19.60	21.00	1.380	100	1.000	-0.05	1.220	1.684
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	WWAN+WLAN	155	5775	18.60	20.00	1.382	100	1.000	-0.14	0.924	1.277
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	WWAN+DBS	155	5775	14.87	16.50	1.457	100	1.000	0.15	0.466	0.679

16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	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)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 26(5)	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	-	DSI 2	26865	831.5	22.40	23.40	1.259	-	-	-0.15	0.994	1	1.251
2nd	LTE Band 26(5)	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	-	DSI 2	26865	831.5	22.40	23.40	1.259	-	-	0.01	0.969	1.026	1.220
1st	LTE Band 66(4)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	-	DSI 2	132572	1770	16.69	17.70	1.262	-	-	0.03	0.989	1	1.248
2nd	LTE Band 66(4)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	-	DSI 2	132572	1770	16.69	17.70	1.262	-	-	0.01	0.883	1.120	1.114
1st	LTE Band 25(2)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	-	DSI 2	26140	1860	17.13	18.10	1.250	-	-	0.08	0.997	1	1.247
2nd	LTE Band 25(2)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	-	DSI 2	26140	1860	17.13	18.10	1.250	-	-	0.01	0.971	1.027	1.214
1st	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	-	DSI 2	20850	2510	17.45	18.40	1.245	-	-	0.15	1.000	1	1.245
2nd	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	-	DSI 2	20850	2510	17.45	18.40	1.245	-	-	0.03	0.992	1.018	1.222
1st	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	-	DSI 2	633334	3500.01	21.55	22.00	1.109	-	-	0.05	0.991	1	1.099
2nd	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	-	DSI 2	633334	3500.01	21.55	22.00	1.109	-	-	-0.03	0.883	1.122	0.979
1st	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	-	DSI 2	656000	3840	20.46	21.70	1.330	-	-	0.07	0.929	1	1.236
2nd	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	-	DSI 2	656000	3840	20.46	21.70	1.330	-	-	0.06	0.925	1.004	1.231
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	-	Standalone	11	2462	18.60	20.00	1.380	97.87	1.022	0.07	0.812	1	1.146
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	-	Standalone	11	2462	18.60	20.00	1.380	97.87	1.022	0.03	0.805	1.009	1.136
1st	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	-	Standalone	58	5290	18.85	20.50	1.463	100	1.000	0.04	0.810	1	1.185
2nd	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	-	Standalone	58	5290	18.85	20.50	1.463	100	1.000	0.03	0.803	1.009	1.174
1st	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	650000	3750	12.91	13.90	1.256	-	-	0.01	0.998	1	1.254
2nd	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	650000	3750	12.91	13.90	1.256	-	-	0.05	0.985	1.013	1.237
1st	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	23230	782	23.22	24.00	1.197	-	-	-0.06	0.960	1	1.149
2nd	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	23230	782	23.22	24.00	1.197	-	-	0.03	0.934	1.028	1.118
1st	WLAN5GHz	-	-	-	-	802.11n-HT40 MCS0	Back	5mm	Ant 5+6	-	Standalone	110	5550	19.64	21.00	1.368	100	1.000	0.08	0.873	1	1.195
2nd	WLAN5GHz	-	-	-	-	802.11n-HT40 MCS0	Back	5mm	Ant 5+6	-	Standalone	110	5550	19.64	21.00	1.368	100	1.000	0.01	0.837	1.009	1.145
1st	WLAN5GHz	-	-	-	-	802.11n-HT40 MCS0	Back	5mm	Ant 5+6	-	Standalone	159	5795	19.60	21.00	1.380	100	1.000	0.01	0.863	1	1.191
2nd	WLAN5GHz	-	-	-	-	802.11n-HT40 MCS0	Back	5mm	Ant 5+6	-	Standalone	159	5795	19.60	21.00	1.380	100	1.000	0.03	0.855	1.009	1.180

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1413	1732.6	20.77	21.80	1.268	-	-	-0.01	2.470	1	3.131
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1413	1732.6	20.77	21.80	1.268	-	-	0.05	2.250	1.098	2.852
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9538	1907.6	20.21	21.20	1.256	-	-	0.01	2.490	1	3.128
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9538	1907.6	20.21	21.20	1.256	-	-	0.05	2.310	1.078	2.901
1st	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 4	21100	2535	23.46	24.00	1.132	-	-	-0.08	2.480	1	2.808
2nd	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 4	21100	2535	23.46	24.00	1.132	-	-	0.01	2.250	1.102	2.548
1st	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.84	19.00	1.306	-	-	0.03	2.390	1	3.122
2nd	FR1 n78-PC2 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.84	19.00	1.306	-	-	-0.16	2.070	1.155	2.704
1st	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Top Side	0mm	Ant 5+6	Full Power	124	5620	21.07	22.50	1.389	100	1.000	0.05	2.010	1	2.792
2nd	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Top Side	0mm	Ant 5+6	Full Power	124	5620	21.07	22.50	1.389	100	1.000	0.03	1.985	1.013	2.757
1st	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	656000	3840	17.41	19.00	1.442	-	-	0.18	2.070	1	2.985
2nd	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	656000	3840	17.41	19.00	1.442	-	-	-0.16	1.970	1.051	2.841
1st	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	650000	3750	17.49	19.00	1.416	-	-	0.17	2.130	1	3.016
2nd	FR1 n78-PC2 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	650000	3750	17.49	19.00	1.416	-	-	0.04	2.050	1.039	2.902

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.

3. 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 ratio is the difference in percentage between original and repeated *measured SAR*.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16.6 TDD B38 Linearity Data Analysis

General Note:
This device support Power Class 2 and Power Class 3 operations for LTE Band 38. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required

LTE Band 38(HPUE) Ant 0-Linearity Data for Head		
	LTE Band 38 (Power Class 3)	LTE Band 38 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.085	0.109
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	0.116	
% deviation from expected linearity		-6.04%
LTE Band 38(HPUE) Ant 0-Linearity Data for Hotspot		
	LTE Band 38 (Power Class 3)	LTE Band 38 (Power Class 2)
Maximum Tune up Power (dBm)	17.80	19.40
Reported 1g SAR (W/kg)	0.873	0.946
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	38.14	37.71
Linearity SAR (W/kg)	0.863	
% deviation from expected linearity		9.60%
LTE Band 38(HPUE) Ant 0-Linearity Data for Body-worn		
	LTE Band 38 (Power Class 3)	LTE Band 38 (Power Class 2)
Maximum Tune up Power (dBm)	22.60	24.20
Reported 1g SAR (W/kg)	1.227	1.240
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	115.19	113.89
Linearity SAR (W/kg)	1.213	
% deviation from expected linearity		2.21%
LTE Band 38(HPUE) Ant 0-Linearity Data for Extremity SAR		
	LTE Band 38 (Power Class 3)	LTE Band 38 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	1.550	1.919
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	2.116	
% deviation from expected linearity		-9.29%

LTE Band 38(HPUE) Ant 1-Linearity Data for Head		
	LTE Band 38 (Power Class 3)	LTE Band 38 (Power Class 2)
Maximum Tune up Power (dBm)	19.50	21.10
Reported 1g SAR (W/kg)	1.101	1.188
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	56.42	55.78
Linearity SAR (W/kg)	1.089	
% deviation from expected linearity		9.13%
LTE Band 38(HPUE) Ant 1-Linearity Data for Hotspot		
	LTE Band 38 (Power Class 3)	LTE Band 38 (Power Class 2)
Maximum Tune up Power (dBm)	17.90	19.50
Reported 1g SAR (W/kg)	0.922	0.933
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	39.03	38.59
Linearity SAR (W/kg)	0.912	
% deviation from expected linearity		2.34%
LTE Band 38(HPUE) Ant 1-Linearity Data for Body-worn		
	LTE Band 38 (Power Class 3)	LTE Band 38 (Power Class 2)
Maximum Tune up Power (dBm)	22.30	23.60
Reported 1g SAR (W/kg)	1.257	1.275
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	107.50	99.19
Linearity SAR (W/kg)	1.160	
% deviation from expected linearity		9.92%
LTE Band 38(HPUE) Ant 1-Linearity Data for Extremity SAR		
	LTE Band 38 (Power Class 3)	LTE Band 38 (Power Class 2)
Maximum Tune up Power (dBm)	23.30	24.90
Reported 1g SAR (W/kg)	2.938	3.131
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	135.33	133.81
Linearity SAR (W/kg)	2.905	
% deviation from expected linearity		7.78%

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + WLAN6E	Yes	Yes		Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	Bluetooth + WLAN5GHz	Yes	Yes	Yes	Yes
6.	Bluetooth + WLAN6E	Yes	Yes		Yes
7.	WWAN + Bluetooth + WLAN5GHz	Yes	Yes	Yes	Yes
8.	WWAN + Bluetooth + WLAN6E	Yes	Yes		Yes
9.	WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
10.	WWAN + WLAN 2.4GHz + WLAN 5GHz	Yes	Yes	Yes	Yes
11.	WLAN2.4GHz + WLAN6E	Yes	Yes		Yes
12.	WWAN + WLAN 2.4GHz + WLAN6E	Yes	Yes		Yes

General Note:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands.
3. EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
4. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
5. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
6. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).WIFI 6E has no hotspot function.
7. The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
8. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
9. WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
10. According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.
11. According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously.
12. According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can't transmit simultaneously.
13. The maximum SAR summation is calculated based on the same configuration and test position.
14. SAR Power density test report for WLAN6E U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth, always chose higher SAR of WLAN5G U-NII-1/2A/2C/3 and U-NII-5/6/7/8.
15. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
    i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
    ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
    iii) If SPLSR ≤ 0.04 for 1g SAR and SPLSR≤ 0.10 for 10g SAR , simultaneously transmission SAR measurement is not necessary.
    iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.

17.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

*x% * A + (100-x)% * B ≤ 1.0,*

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and A ≤ 1.0; B is normalized reported time-averaged exposure ratio from 5G NR (i.e. SAR exposure for 5G FR1), and B ≤1.0.

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

*x% * A + (100-x)% * B + C ≤ 1.0* (1)

x% * A + (100-x)% * B ≤ x% * max(A, B) + (100-x)% * max(A, B) ≤ max(A, B)

*x% * A + (100-x)% * B + C ≤ max(A, B) + C ≤ 1.0* (2)

if A + C ≤ 1.0 and B + C ≤ 1.0 can be proven, then “x% * A + (100-x)% * B + C ≤ 1.0”. Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1

Above analysis is also apply to LTE inter band uplink, LTE1 + LTE2 + WLAN + BT simultaneous transmission, So inter band CA uplink no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of LTE + WLAN + BT < 1.

17.2 Head Exposure Conditions

FR1 Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+8+10 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 4+6 DBS Only	WLAN 2.4GHz Ant 4+6 WWAN+ WLAN	WLAN 2.4GHz Ant 4+6 WWAN +DBS	WLAN 5GHz Ant 5+6 DBS Only	WLAN 5GHz Ant 5+6 WWAN +WLAN	WLAN 5GHz Ant 5+6 WWAN+ DBS	Bluetooth Ant 4	Bluetooth Ant 6	WIFI 6E								
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
GSM850 Ant 0	Right Cheek	0.294	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.82	0.89	0.79	0.86	0.59	0.76	0.49
	Right Tilted	0.193	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.72	0.78	0.57	0.76	0.49	0.54	0.27
	Left Cheek	0.168	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.69	0.76	0.52	0.73	0.46	0.50	0.23
	Left Tilted	0.150	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.68	0.74	0.51	0.72	0.45	0.48	0.21
GSM850 Ant 1	Right Cheek	0.971	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.50	**1.56**	1.47	1.54	1.27	1.44	1.17
	Right Tilted	0.971	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	1.50	1.56	1.35	1.54	1.27	1.32	1.05
	Left Cheek	0.971	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	1.50	1.56	1.33	1.54	1.27	1.30	1.03
	Left Tilted	0.971	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	1.50	1.56	1.33	1.54	1.27	1.30	1.03
WCDMA II Ant 0	Right Cheek	0.066	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.59	0.66	0.56	0.63	0.36	0.54	0.27
	Right Tilted	0.044	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.57	0.64	0.42	0.61	0.34	0.40	0.13
	Left Cheek	0.087	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.61	0.68	0.44	0.65	0.38	0.42	0.15
	Left Tilted	0.063	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.59	0.65	0.42	0.63	0.36	0.40	0.13
WCDMA IV Ant 0	Right Cheek	0.079	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.60	0.67	0.57	0.64	0.37	0.55	0.28
	Right Tilted	0.073	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.60	0.66	0.45	0.64	0.37	0.42	0.15
	Left Cheek	0.100	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.63	0.69	0.46	0.67	0.40	0.43	0.16
	Left Tilted	0.080	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.61	0.67	0.44	0.65	0.38	0.41	0.14
WCDMA V Ant 0	Right Cheek	0.231	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.76	0.82	0.73	0.80	0.53	0.70	0.43
	Right Tilted	0.141	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.67	0.73	0.52	0.71	0.44	0.49	0.22
	Left Cheek	0.151	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.68	0.74	0.51	0.72	0.45	0.48	0.21
	Left Tilted	0.115	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.64	0.71	0.47	0.68	0.41	0.45	0.18
WCDMA V Ant 1	Right Cheek	0.851	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.38	1.44	1.35	1.42	1.15	1.32	1.05
	Right Tilted	0.851	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	1.38	1.44	1.23	1.42	1.15	1.20	0.93
	Left Cheek	0.851	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	1.38	1.44	1.21	1.42	1.15	1.18	0.91
	Left Tilted	0.851	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	1.38	1.44	1.21	1.42	1.15	1.18	0.91
LTE Band 7 Ant 0	Right Cheek	0.126	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.65	0.72	0.62	0.69	0.42	0.60	0.33
	Right Tilted	0.043	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.57	0.63	0.42	0.61	0.34	0.39	0.12
	Left Cheek	0.085	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.61	0.68	0.44	0.65	0.38	0.41	0.14
	Left Tilted	0.078	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.60	0.67	0.44	0.64	0.37	0.41	0.14
LTE Band 7 Ant 1	Right Cheek	0.917	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.44	1.51	1.41	1.48	1.21	1.39	1.12
	Right Tilted	0.917	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	1.44	1.51	1.29	1.48	1.21	1.27	1.00
	Left Cheek	0.917	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	1.44	1.51	1.27	1.48	1.21	1.25	0.98
	Left Tilted	0.917	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	1.44	1.51	1.28	1.48	1.21	1.25	0.98
LTE Band 12(17) Ant 0	Right Cheek	0.207	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.73	0.80	0.70	0.77	0.50	0.68	0.41
	Right Tilted	0.100	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.63	0.69	0.48	0.67	0.40	0.45	0.18
	Left Cheek	0.125	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.65	0.72	0.48	0.69	0.42	0.45	0.18
	Left Tilted	0.137	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.66	0.73	0.50	0.70	0.43	0.47	0.20
LTE Band 12(17) Ant 1	Right Cheek	0.889	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.41	1.48	1.38	1.45	1.18	1.36	1.09
	Right Tilted	0.889	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	1.41	1.48	1.27	1.45	1.18	1.24	0.97
	Left Cheek	0.889	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	1.41	1.48	1.24	1.45	1.18	1.22	0.95
	Left Tilted	0.889	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	1.41	1.48	1.25	1.45	1.18	1.22	0.95
LTE Band 13 Ant 0	Right Cheek	0.208	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.73	0.80	0.70	0.77	0.50	0.68	0.41
	Right Tilted	0.120	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.65	0.71	0.50	0.69	0.42	0.47	0.20
	Left Cheek	0.178	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.70	0.77	0.53	0.74	0.47	0.51	0.24
	Left Tilted	0.114	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.64	0.71	0.47	0.68	0.41	0.45	0.18
LTE Band 13 Ant 1	Right Cheek	0.521	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.05	1.11	1.02	1.09	0.82	0.99	0.72
	Right Tilted	0.534	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	1.06	1.13	0.91	1.10	0.83	0.89	0.62
	Left Cheek	0.831	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	1.36	1.42	1.19	1.40	1.13	1.16	0.89
	Left Tilted	0.792	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	1.32	1.38	1.15	1.36	1.09	1.13	0.86

LTE Band 25(2) Ant 0	Right Cheek	0.070	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.60	0.66	0.57	0.64	0.37	0.54	0.27
	Right Tilted	0.059	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.58	0.65	0.44	0.62	0.35	0.41	0.14
	Left Cheek	0.085	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.61	0.68	0.44	0.65	0.38	0.41	0.14
	Left Tilted	0.027	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.55	0.62	0.39	0.59	0.32	0.36	0.09
LTE Band 25(2) Ant 1	Right Cheek	0.898	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.42	1.49	1.39	1.46	1.19	1.37	1.10
	Right Tilted	0.898	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	1.42	1.49	1.28	1.46	1.19	1.25	0.98
	Left Cheek	0.898	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	1.42	1.49	1.25	1.46	1.19	1.23	0.96
	Left Tilted	0.898	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	1.42	1.49	1.26	1.46	1.19	1.23	0.96
LTE Band 26(5) Ant 0	Right Cheek	0.293	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.82	0.88	0.79	0.86	0.59	0.76	0.49
	Right Tilted	0.135	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.66	0.73	0.51	0.70	0.43	0.49	0.22
	Left Cheek	0.202	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.73	0.79	0.56	0.77	0.50	0.53	0.26
	Left Tilted	0.151	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.68	0.74	0.51	0.72	0.45	0.48	0.21
LTE Band 26(5) Ant 1	Right Cheek	0.906	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.43	1.50	1.40	1.47	1.20	1.38	1.11
	Right Tilted	0.906	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	1.43	1.50	1.28	1.47	1.20	1.26	0.99
	Left Cheek	0.906	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	1.43	1.50	1.26	1.47	1.20	1.24	0.97
	Left Tilted	0.906	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	1.43	1.50	1.27	1.47	1.20	1.24	0.97
LTE Band 66(4) Ant 0	Right Cheek	0.050	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.58	0.64	0.55	0.62	0.35	0.52	0.25
	Right Tilted	0.052	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.58	0.64	0.43	0.62	0.35	0.40	0.13
	Left Cheek	0.062	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.59	0.65	0.42	0.63	0.36	0.39	0.12
	Left Tilted	0.045	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.57	0.64	0.40	0.61	0.34	0.38	0.11
LTE Band 66(4) Ant 1	Right Cheek	0.923	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.45	1.51	1.42	1.49	1.22	1.39	1.12
	Right Tilted	0.923	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	1.45	1.51	1.30	1.49	1.22	1.27	1.00
	Left Cheek	0.923	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	1.45	1.51	1.28	1.49	1.22	1.25	0.98
	Left Tilted	0.923	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	1.45	1.51	1.28	1.49	1.22	1.26	0.99
LTE Band 38 Ant 0	Right Cheek	0.085	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.61	0.68	0.58	0.65	0.38	0.55	0.28
	Right Tilted	0.042	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.57	0.63	0.42	0.61	0.34	0.39	0.12
	Left Cheek	0.050	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.58	0.64	0.41	0.62	0.35	0.38	0.11
	Left Tilted	0.049	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.57	0.64	0.41	0.61	0.34	0.38	0.11
LTE Band 38 Ant 1	Right Cheek	0.775	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.30	1.37	1.27	1.34	1.07	1.24	0.97
	Right Tilted	0.775	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	1.30	1.37	1.15	1.34	1.07	1.13	0.86
	Left Cheek	0.775	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	1.30	1.37	1.13	1.34	1.07	1.10	0.83
	Left Tilted	0.775	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	1.30	1.37	1.13	1.34	1.07	1.11	0.84
LTE Band 41 Ant 0	Right Cheek	0.085	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.61	0.68	0.58	0.65	0.38	0.55	0.28
	Right Tilted	0.026	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.55	0.62	0.40	0.59	0.32	0.38	0.11
	Left Cheek	0.064	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.59	0.66	0.42	0.63	0.36	0.39	0.12
	Left Tilted	0.058	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.58	0.65	0.42	0.62	0.35	0.39	0.12
LTE Band 41 Ant 1	Right Cheek	0.964	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.49	1.56	1.46	1.53	1.26	1.43	1.16
	Right Tilted	0.964	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	1.49	1.56	1.34	1.53	1.26	1.32	1.05
	Left Cheek	0.964	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	1.49	1.56	1.32	1.53	1.26	1.29	1.02
	Left Tilted	0.964	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	1.49	1.56	1.32	1.53	1.26	1.30	1.03
LTE Band 42 Part27Q Ant 2	Right Cheek	0.864	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.39	1.46	1.36	1.43	1.16	1.33	1.06
	Right Tilted	0.493	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	1.02	1.08	0.87	1.06	0.79	0.84	0.57
	Left Cheek	0.228	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.75	0.82	0.58	0.79	0.52	0.56	0.29
	Left Tilted	0.190	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.72	0.78	0.55	0.76	0.49	0.52	0.25
LTE Band 48(42&43) Ant 2	Right Cheek	0.712	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.24	1.30	1.21	1.28	1.01	1.18	0.91
	Right Tilted	0.430	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.079	1.45	0.96	1.02	0.81	1.00	0.73	0.78	0.51
	Left Cheek	0.206	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.057	1.45	0.73	0.80	0.56	0.77	0.50	0.54	0.27
	Left Tilted	0.166	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.061	1.45	0.69	0.76	0.53	0.73	0.46	0.50	0.23
LTE Band 38_HPUE Ant 0	Right Cheek	0.109	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	0.63	0.70	0.60	0.67	0.40	0.58	0.31
	Right Tilted	0.109	0.712	0.525	0.298	0.739	0.293	0.293	0.247	0.002	0.079	1.45	0.63	0.70	0.49	0.65	0.40	0.44	0.19
	Left Cheek	0.109	0.712	0.525	0.298	0.739	0.293	0.293	0.157	0.002	0.057	1.45	0.63	0.70	0.46	0.56	0.40	0.32	0.17
	Left Tilted	0.109	0.712	0.525	0.298	0.739	0.293	0.293	0.173	0.002	0.061	1.45	0.63	0.70	0.47	0.58	0.40	0.34	0.17
LTE Band 38_HPUE Ant 1	Right Cheek	0.926	0.712	0.525	0.298	0.739	0.293	0.293	0.272	0.002	0.197	1.45	1.45	1.52	1.42	1.49	1.22	1.40	1.13
	Right Tilted	0.926	0.712	0.525	0.298	0.739	0.293	0.293	0.247	0.002	0.079	1.45	1.45	1.52	1.30	1.47	1.22	1.25	1.01
	Left Cheek	0.926	0.712	0.525	0.298	0.739	0.293	0.293	0.157	0.002	0.057	1.45	1.45	1.52	1.28	1.38	1.22	1.14	0.99
	Left Tilted	0.926	0.712	0.525	0.298	0.739	0.293	0.293	0.173	0.002	0.061	1.45	1.45	1.52	1.29	1.39	1.22	1.16	0.99

<5GNR Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+8+10 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 4+6 DBS Only	WLAN 2.4GHz Ant 4+6 WWAN +WLAN	WLAN 2.4GHz Ant 4+6 WWAN +DBS	WLAN 5GHz Ant 5+6 DBS Only	WLAN 5GHz Ant 5+6 WWAN +WLAN	WLAN 5GHz Ant 5+6 WWAN +DBS	Bluetooth Ant 4	Bluetooth Ant 6	WIFI 6E								
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
FR1 n5 Ant 0	Right Cheek	0.171	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	0.70	0.76	0.67	0.74	0.47	0.64	0.37
	Right Tilted	0.062	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	0.59	0.65	0.44	0.63	0.36	0.41	0.14
	Left Cheek	0.122	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	0.65	0.71	0.48	0.69	0.42	0.45	0.18
	Left Tilted	0.055	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	0.58	0.65	0.41	0.62	0.35	0.39	0.12
FR1 n66 Ant 1	Right Cheek	0.967	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	1.49	1.56	1.46	1.53	1.26	1.44	1.17
	Right Tilted	0.967	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	1.49	1.56	1.34	1.53	1.26	1.32	1.05
	Left Cheek	0.967	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	1.49	1.56	1.32	1.53	1.26	1.30	1.03
	Left Tilted	0.967	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	1.49	1.56	1.33	1.53	1.26	1.30	1.03
FR1 n7 Ant 0	Right Cheek	0.074	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	0.60	0.67	0.57	0.64	0.37	0.54	0.27
	Right Tilted	0.060	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	0.59	0.65	0.44	0.62	0.35	0.41	0.14
	Left Cheek	0.058	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	0.58	0.65	0.41	0.62	0.35	0.39	0.12
	Left Tilted	0.069	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	0.59	0.66	0.43	0.63	0.36	0.40	0.13
FR1 n7 Ant 1	Right Cheek	0.944	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	1.47	1.54	1.44	1.51	1.24	1.41	1.14
	Right Tilted	0.944	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	1.47	1.54	1.32	1.51	1.24	1.30	1.03
	Left Cheek	0.944	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	1.47	1.54	1.30	1.51	1.24	1.27	1.00
	Left Tilted	0.944	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	1.47	1.54	1.30	1.51	1.24	1.28	1.01
FR1 n38 Ant 1	Right Cheek	0.957	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	1.48	1.55	1.45	1.52	1.25	1.43	1.16
	Right Tilted	0.957	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	1.48	1.55	1.33	1.52	1.25	1.31	1.04
	Left Cheek	0.957	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	1.48	1.55	1.31	1.52	1.25	1.29	1.02
	Left Tilted	0.957	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	1.48	1.55	1.32	1.52	1.25	1.29	1.02
FR1 n77 Part 27O Ant 2	Right Cheek	0.944	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	1.47	1.54	1.44	1.51	1.24	1.41	1.14
	Right Tilted	0.944	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	1.47	1.54	1.32	1.51	1.24	1.30	1.03
	Left Cheek	0.944	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	1.47	1.54	1.30	1.51	1.24	1.27	1.00
	Left Tilted	0.944	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	1.47	1.54	1.30	1.51	1.24	1.28	1.01
FR1 n77 Part 27Q Ant 2	Right Cheek	0.827	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	1.35	1.42	1.32	1.39	1.12	1.30	1.03
	Right Tilted	0.827	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	1.35	1.42	1.20	1.39	1.12	1.18	0.91
	Left Cheek	0.827	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	1.35	1.42	1.18	1.39	1.12	1.16	0.89
	Left Tilted	0.827	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	1.35	1.42	1.19	1.39	1.12	1.16	0.89
FR1 n78-PC2 Part 27O Ant 2	Right Cheek	0.922	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	1.45	1.51	1.42	1.49	1.22	1.39	1.12
	Right Tilted	0.922	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	1.45	1.51	1.30	1.49	1.22	1.27	1.00
	Left Cheek	0.922	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	1.45	1.51	1.28	1.49	1.22	1.25	0.98
	Left Tilted	0.922	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	1.45	1.51	1.28	1.49	1.22	1.26	0.99
FR1 n78-PC2 Part 27Q Ant 2	Right Cheek	0.854	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	1.38	1.45	1.35	1.42	1.15	1.32	1.05
	Right Tilted	0.854	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	1.38	1.45	1.23	1.42	1.15	1.21	0.94
	Left Cheek	0.854	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	1.38	1.45	1.21	1.42	1.15	1.18	0.91
	Left Tilted	0.854	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	1.38	1.45	1.21	1.42	1.15	1.19	0.92

<SRS Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+8+10 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 4+6 DBS Only	WLAN 2.4GHz Ant 4+6 WWAN+ WLAN	WLAN 2.4GHz Ant 4+6 WWAN + DBS	WLAN 5GHz Ant 5+6 DBS Only	WLAN 5GHz Ant 5+6 WWAN+ WLAN	WLAN 5GHz Ant 5+6 WWAN + DBS	Bluetooth Ant 4	Bluetooth Ant 6	WIFI 6E								
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
FR1 n78 Part 27O Ant 3	Right Cheek	0.004	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	0.53	0.59	0.50	0.57	0.30	0.47	0.20
	Right Tilted	0.004	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	0.53	0.60	0.38	0.57	0.30	0.36	0.09
	Left Cheek	0.005	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	0.53	0.60	0.36	0.57	0.30	0.33	0.06
	Left Tilted	0.004	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	0.53	0.59	0.36	0.57	0.30	0.34	0.07
FR1 n78 Part 27Q Ant 3	Right Cheek	0.003	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	0.53	0.59	0.50	0.57	0.30	0.47	0.20
	Right Tilted	0.003	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	0.53	0.59	0.38	0.57	0.30	0.35	0.08
	Left Cheek	0.004	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	0.53	0.59	0.36	0.57	0.30	0.33	0.06
	Left Tilted	0.003	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	0.53	0.59	0.36	0.57	0.30	0.34	0.07
FR1 n78-PC2 Part 27O Ant 7	Right Cheek	0.047	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	0.57	0.64	0.54	0.61	0.34	0.52	0.25
	Right Tilted	0.053	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	0.58	0.64	0.43	0.62	0.35	0.40	0.13
	Left Cheek	0.026	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	0.55	0.62	0.38	0.59	0.32	0.36	0.09
	Left Tilted	0.030	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	0.55	0.62	0.39	0.59	0.32	0.36	0.09
FR1 n78-PC2 Part 27Q Ant 7	Right Cheek	0.062	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	0.59	0.65	0.56	0.63	0.36	0.53	0.26
	Right Tilted	0.064	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	0.59	0.65	0.44	0.63	0.36	0.41	0.14
	Left Cheek	0.048	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	0.57	0.64	0.40	0.61	0.34	0.38	0.11
	Left Tilted	0.053	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	0.58	0.64	0.41	0.62	0.35	0.39	0.12
FR1 n78 Part 27O Ant 8	Right Cheek	0.001	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	0.53	0.59	0.50	0.57	0.30	0.47	0.20
	Right Tilted	0.003	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	0.53	0.59	0.38	0.57	0.30	0.35	0.08
	Left Cheek	0.001	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	0.53	0.59	0.36	0.56	0.29	0.33	0.06
	Left Tilted	0.002	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	0.53	0.59	0.36	0.57	0.30	0.33	0.06
FR1 n78 Part 27Q Ant 8	Right Cheek	0.001	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.197	1.45	0.53	0.59	0.50	0.57	0.30	0.47	0.20
	Right Tilted	0.003	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.079	1.45	0.53	0.59	0.38	0.57	0.30	0.35	0.08
	Left Cheek	0.001	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.057	1.45	0.53	0.59	0.36	0.57	0.30	0.33	0.06
	Left Tilted	0.002	0.712	0.525	0.298	0.739	0.292	0.293	0.272	0.002	0.061	1.45	0.53	0.59	0.36	0.57	0.30	0.33	0.06

17.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2 Summed 1g SAR (W/kg)	1+3+5 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)
		WWAN	WLAN2.4GHz Ant 4+6 WWAN+WLAN	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz Ant 5+6 WWAN+WLAN	WLAN5GHz Ant 5+6 WWAN+DBS	Bluetooth Ant 4	Bluetooth Ant 6				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
GSM850 Ant 0	Front	0.558	0.252	0.211	0.072	0.072	0.128	0.002	0.81	0.84	0.76	0.63
	Back	0.931	0.291	0.211	0.279	0.279	0.171	0.322	1.22	1.42	1.38	1.53
	Left side	0.106	0.070	0.211	0.065	0.065	0.129		0.18	0.38	0.30	0.17
	Right side	0.198	0.069	0.211	0.060	0.060	0.068	0.086	0.27	0.47	0.33	0.34
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.529		0.211					0.53	0.74	0.53	0.53
GSM850 Ant 1	Front	0.573	0.252	0.211	0.072	0.072	0.128	0.002	0.83	0.86	0.77	0.65
	Back	0.645	0.291	0.211	0.279	0.279	0.171	0.322	0.94	1.14	1.10	1.25
	Left side	0.174	0.070	0.211	0.065	0.065	0.129		0.24	0.45	0.37	0.24
	Right side	0.304	0.069	0.211	0.060	0.060	0.068	0.086	0.37	0.58	0.43	0.45
	Top side	0.924	0.527	0.211	0.275	0.275	0.152	0.005	1.45	1.41	1.35	1.20
	Bottom side			0.211					0.00	0.21	0.00	0.00
WCDMA II Ant 0	Front	0.433	0.252	0.211	0.072	0.072	0.128	0.002	0.69	0.72	0.63	0.51
	Back	0.552	0.291	0.211	0.279	0.279	0.171	0.322	0.84	1.04	1.00	1.15
	Left side	0.023	0.070	0.211	0.065	0.065	0.129		0.09	0.30	0.22	0.09
	Right side	0.022	0.069	0.211	0.060	0.060	0.068	0.086	0.09	0.29	0.15	0.17
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.923		0.211					0.92	1.13	0.92	0.92
WCDMA IV Ant 0	Front	0.421	0.252	0.211	0.072	0.072	0.128	0.002	0.67	0.70	0.62	0.50
	Back	0.515	0.291	0.211	0.279	0.279	0.171	0.322	0.81	1.01	0.97	1.12
	Left side	0.023	0.070	0.211	0.065	0.065	0.129		0.09	0.30	0.22	0.09
	Right side	0.038	0.069	0.211	0.060	0.060	0.068	0.086	0.11	0.31	0.17	0.18
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.935		0.211					0.94	1.15	0.94	0.94
WCDMA V Ant 0	Front	0.555	0.252	0.211	0.072	0.072	0.128	0.002	0.81	0.84	0.76	0.63
	Back	0.924	0.291	0.211	0.279	0.279	0.171	0.322	1.22	1.41	1.37	1.53
	Left side	0.094	0.070	0.211	0.065	0.065	0.129		0.16	0.37	0.29	0.16
	Right side	0.184	0.069	0.211	0.060	0.060	0.068	0.086	0.25	0.46	0.31	0.33
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.757		0.211					0.76	0.97	0.76	0.76
WCDMA V Ant 1	Front	0.466	0.252	0.211	0.072	0.072	0.128	0.002	0.72	0.75	0.67	0.54
	Back	0.653	0.291	0.211	0.279	0.279	0.171	0.322	0.94	1.14	1.10	1.25
	Left side	0.178	0.070	0.211	0.065	0.065	0.129		0.25	0.45	0.37	0.24
	Right side	0.278	0.069	0.211	0.060	0.060	0.068	0.086	0.35	0.55	0.41	0.42
	Top side	0.938	0.527	0.211	0.275	0.275	0.152	0.005	1.47	1.42	1.37	1.22
	Bottom side			0.211					0.00	0.21	0.00	0.00
LTE Band 7 Ant 0	Front	0.323	0.252	0.211	0.072	0.072	0.128	0.002	0.58	0.61	0.52	0.40
	Back	0.384	0.291	0.211	0.279	0.279	0.171	0.322	0.68	0.87	0.83	0.99
	Left side	0.023	0.070	0.211	0.065	0.065	0.129		0.09	0.30	0.22	0.09
	Right side	0.035	0.069	0.211	0.060	0.060	0.068	0.086	0.10	0.31	0.16	0.18
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.942		0.211					0.94	1.15	0.94	0.94
LTE Band 7 Ant 1	Front	0.280	0.252	0.211	0.072	0.072	0.128	0.002	0.53	0.56	0.48	0.35
	Back	0.417	0.291	0.211	0.279	0.279	0.171	0.322	0.71	0.91	0.87	1.02
	Left side	0.021	0.070	0.211	0.065	0.065	0.129		0.09	0.30	0.22	0.09
	Right side	0.052	0.069	0.211	0.060	0.060	0.068	0.086	0.12	0.32	0.18	0.20
	Top side	0.928	0.527	0.211	0.275	0.275	0.152	0.005	1.46	1.41	1.36	1.21
	Bottom side			0.211					0.00	0.21	0.00	0.00
LTE Band 12(17) Ant 0	Front	0.445	0.252	0.211	0.072	0.072	0.128	0.002	0.70	0.73	0.65	0.52
	Back	0.843	0.291	0.211	0.279	0.279	0.171	0.322	1.13	1.33	1.29	1.44

	Left side	0.147	0.070	0.211	0.065	0.065	0.129		0.22	0.42	0.34	0.21
	Right side	0.079	0.069	0.211	0.060	0.060	0.068	0.086	0.15	0.35	0.21	0.23
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.372		0.211					0.37	0.58	0.37	0.37
LTE Band 12(17) Ant 1	Front	0.484	0.252	0.211	0.072	0.072	0.128	0.002	0.74	0.77	0.68	0.56
	Back	0.535	0.291	0.211	0.279	0.279	0.171	0.322	0.83	1.03	0.99	1.14
	Left side	0.182	0.070	0.211	0.065	0.065	0.129		0.25	0.46	0.38	0.25
	Right side	0.295	0.069	0.211	0.060	0.060	0.068	0.086	0.36	0.57	0.42	0.44
	Top side	0.721	0.527	0.211	0.275	0.275	0.152	0.005	1.25	1.21	1.15	1.00
	Bottom side			0.211					0.00	0.21	0.00	0.00
LTE Band 13 Ant 0	Front	0.529	0.252	0.211	0.072	0.072	0.128	0.002	0.78	0.81	0.73	0.60
	Back	0.887	0.291	0.211	0.279	0.279	0.171	0.322	1.18	1.38	1.34	1.49
	Left side	0.195	0.070	0.211	0.065	0.065	0.129		0.27	0.47	0.39	0.26
	Right side	0.347	0.069	0.211	0.060	0.060	0.068	0.086	0.42	0.62	0.48	0.49
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.570		0.211					0.57	0.78	0.57	0.57
LTE Band 13 Ant 1	Front	0.481	0.252	0.211	0.072	0.072	0.128	0.002	0.73	0.76	0.68	0.56
	Back	0.564	0.291	0.211	0.279	0.279	0.171	0.322	0.86	1.05	1.01	1.17
	Left side	0.162	0.070	0.211	0.065	0.065	0.129		0.23	0.44	0.36	0.23
	Right side	0.300	0.069	0.211	0.060	0.060	0.068	0.086	0.37	0.57	0.43	0.45
	Top side	0.715	0.527	0.211	0.275	0.275	0.152	0.005	1.24	1.20	1.14	1.00
	Bottom side			0.211					0.00	0.21	0.00	0.00
LTE Band 25(2) Ant 0	Front	0.370	0.252	0.211	0.072	0.072	0.128	0.002	0.62	0.65	0.57	0.44
	Back	0.544	0.291	0.211	0.279	0.279	0.171	0.322	0.84	1.03	0.99	1.15
	Left side	0.023	0.070	0.211	0.065	0.065	0.129		0.09	0.30	0.22	0.09
	Right side	0.028	0.069	0.211	0.060	0.060	0.068	0.086	0.10	0.30	0.16	0.17
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.943		0.211					0.94	1.15	0.94	0.94
LTE Band 25(2) Ant 1	Front	0.451	0.252	0.211	0.072	0.072	0.128	0.002	0.70	0.73	0.65	0.53
	Back	0.620	0.291	0.211	0.279	0.279	0.171	0.322	0.91	1.11	1.07	1.22
	Left side	0.022	0.070	0.211	0.065	0.065	0.129		0.09	0.30	0.22	0.09
	Right side	0.141	0.069	0.211	0.060	0.060	0.068	0.086	0.21	0.41	0.27	0.29
	Top side	0.943	0.527	0.211	0.275	0.275	0.152	0.005	1.47	1.43	1.37	1.22
	Bottom side			0.211					0.00	0.21	0.00	0.00
LTE Band 26(5) Ant 0	Front	0.435	0.252	0.211	0.072	0.072	0.128	0.002	0.69	0.72	0.64	0.51
	Back	0.940	0.291	0.211	0.279	0.279	0.171	0.322	1.23	1.43	1.39	1.54
	Left side	0.127	0.070	0.211	0.065	0.065	0.129		0.20	0.40	0.32	0.19
	Right side	0.074	0.069	0.211	0.060	0.060	0.068	0.086	0.14	0.35	0.20	0.22
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.920		0.211					0.92	1.13	0.92	0.92
LTE Band 26(5) Ant 1	Front	0.442	0.252	0.211	0.072	0.072	0.128	0.002	0.69	0.73	0.64	0.52
	Back	0.614	0.291	0.211	0.279	0.279	0.171	0.322	0.91	1.10	1.06	1.22
	Left side	0.149	0.070	0.211	0.065	0.065	0.129		0.22	0.43	0.34	0.21
	Right side	0.236	0.069	0.211	0.060	0.060	0.068	0.086	0.31	0.51	0.36	0.38
	Top side	0.875	0.527	0.211	0.275	0.275	0.152	0.005	1.40	1.36	1.30	1.16
	Bottom side			0.211					0.00	0.21	0.00	0.00
LTE Band 66(4) Ant 0	Front	0.405	0.252	0.211	0.072	0.072	0.128	0.002	0.66	0.69	0.61	0.48
	Back	0.505	0.291	0.211	0.279	0.279	0.171	0.322	0.80	1.00	0.96	1.11
	Left side	0.024	0.070	0.211	0.065	0.065	0.129		0.09	0.30	0.22	0.09
	Right side	0.039	0.069	0.211	0.060	0.060	0.068	0.086	0.11	0.31	0.17	0.19
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.930		0.211					0.93	1.14	0.93	0.93
LTE Band 66(4) Ant 1	Front	0.495	0.252	0.211	0.072	0.072	0.128	0.002	0.75	0.78	0.70	0.57
	Back	0.614	0.291	0.211	0.279	0.279	0.171	0.322	0.91	1.10	1.06	1.22
	Left side	0.015	0.070	0.211	0.065	0.065	0.129		0.09	0.29	0.21	0.08
	Right side	0.087	0.069	0.211	0.060	0.060	0.068	0.086	0.16	0.36	0.22	0.23

	Top side	0.940	0.527	0.211	0.275	0.275	0.152	0.005	1.47	1.43	1.37	1.22
	Bottom side			0.211					0.00	0.21	0.00	0.00
LTE Band 38-PC2 Ant 0	Front		0.252	0.211	0.072	0.072	0.128	0.002	0.25	0.28	0.20	0.07
	Back		0.291	0.211	0.279	0.279	0.171	0.322	0.29	0.49	0.45	0.60
	Left side		0.070	0.211	0.065	0.065	0.129		0.07	0.28	0.19	0.07
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.946		0.211					0.95	1.16	0.95	0.95
LTE Band 38-PC2 Ant 1	Front		0.252	0.211	0.072	0.072	0.128	0.002	0.25	0.28	0.20	0.07
	Back		0.291	0.211	0.279	0.279	0.171	0.322	0.29	0.49	0.45	0.60
	Left side		0.070	0.211	0.065	0.065	0.129		0.07	0.28	0.19	0.07
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side	0.933	0.527	0.211	0.275	0.275	0.152	0.005	1.46	1.42	1.36	1.21
	Bottom side			0.211					0.00	0.21	0.00	0.00
LTE Band 41 Ant 0	Front	0.338	0.252	0.211	0.072	0.072	0.128	0.002	0.59	0.62	0.54	0.41
	Back	0.413	0.291	0.211	0.279	0.279	0.171	0.322	0.70	0.90	0.86	1.01
	Left side	0.020	0.070	0.211	0.065	0.065	0.129		0.09	0.30	0.21	0.09
	Right side	0.048	0.069	0.211	0.060	0.060	0.068	0.086	0.12	0.32	0.18	0.19
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.942		0.211					0.94	1.15	0.94	0.94
LTE Band 41 Ant 1	Front	0.235	0.252	0.211	0.072	0.072	0.128	0.002	0.49	0.52	0.44	0.31
	Back	0.405	0.291	0.211	0.279	0.279	0.171	0.322	0.70	0.90	0.86	1.01
	Left side	0.012	0.070	0.211	0.065	0.065	0.129		0.08	0.29	0.21	0.08
	Right side	0.065	0.069	0.211	0.060	0.060	0.068	0.086	0.13	0.34	0.19	0.21
	Top side	0.935	0.527	0.211	0.275	0.275	0.152	0.005	1.46	1.42	1.36	1.22
	Bottom side			0.211					0.00	0.21	0.00	0.00
LTE Band 42 Part27Q Ant 2	Front	0.066	0.252	0.211	0.072	0.072	0.128	0.002	0.32	0.35	0.27	0.14
	Back	0.976	0.291	0.211	0.279	0.279	0.171	0.322	1.27	1.47	1.43	**1.58**
	Left side	0.247	0.070	0.211	0.065	0.065	0.129		0.32	0.52	0.44	0.31
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side	0.053	0.527	0.211	0.275	0.275	0.152	0.005	0.58	0.54	0.48	0.33
	Bottom side			0.211					0.00	0.21	0.00	0.00

<5GNR Mode>

FR1 Band	Exposure Position	1	2	3	4	5	6	7	1+2 Summed 1g SAR (W/kg)	1+3+5 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)
		WWAN	WLAN2.4GHz Ant 4+6 WWAN+WLAN	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz Ant 5+6 WWAN+WLAN	WLAN5GHz Ant 5+6 WWAN+DBS	Bluetooth Ant 4	Bluetooth Ant 6				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
FR1 n5 Ant 0	Front	0.603	0.252	0.211	0.072	0.072	0.128	0.002	0.86	0.89	0.80	0.68
	Back	0.939	0.291	0.211	0.279	0.279	0.171	0.322	1.23	1.43	1.39	1.54
	Left side	0.097	0.070	0.211	0.065	0.065	0.129		0.17	0.37	0.29	0.16
	Right side	0.184	0.069	0.211	0.060	0.060	0.068	0.086	0.25	0.46	0.31	0.33
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.556		0.211					0.56	0.77	0.56	0.56
FR1 n66 Ant 1	Front	0.573	0.252	0.211	0.072	0.072	0.128	0.002	0.83	0.86	0.77	0.65
	Back	0.776	0.291	0.211	0.279	0.279	0.171	0.322	1.07	1.27	1.23	1.38
	Left side	0.015	0.070	0.211	0.065	0.065	0.129		0.09	0.29	0.21	0.08
	Right side	0.099	0.069	0.211	0.060	0.060	0.068	0.086	0.17	0.37	0.23	0.25
	Top side	0.937	0.527	0.211	0.275	0.275	0.152	0.005	1.46	1.42	1.36	1.22
	Bottom side			0.211					0.00	0.21	0.00	0.00
FR1 n7 Ant 0	Front	0.386	0.252	0.211	0.072	0.072	0.128	0.002	0.64	0.67	0.59	0.46
	Back	0.448	0.291	0.211	0.279	0.279	0.171	0.322	0.74	0.94	0.90	1.05
	Left side	0.020	0.070	0.211	0.065	0.065	0.129		0.09	0.30	0.21	0.09
	Right side	0.037	0.069	0.211	0.060	0.060	0.068	0.086	0.11	0.31	0.17	0.18
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.929		0.211					0.93	1.14	0.93	0.93
FR1 n7 Ant 1	Front	0.497	0.252	0.211	0.072	0.072	0.128	0.002	0.75	0.78	0.70	0.57
	Back	0.686	0.291	0.211	0.279	0.279	0.171	0.322	0.98	1.18	1.14	1.29
	Left side	0.033	0.070	0.211	0.065	0.065	0.129		0.10	0.31	0.23	0.10
	Right side	0.089	0.069	0.211	0.060	0.060	0.068	0.086	0.16	0.36	0.22	0.24
	Top side	0.925	0.527	0.211	0.275	0.275	0.152	0.005	1.45	1.41	1.35	1.21
	Bottom side			0.211					0.00	0.21	0.00	0.00
FR1 n38 Ant 1	Front	0.285	0.252	0.211	0.072	0.072	0.128	0.002	0.54	0.57	0.49	0.36
	Back	0.445	0.291	0.211	0.279	0.279	0.171	0.322	0.74	0.94	0.90	1.05
	Left side	0.016	0.070	0.211	0.065	0.065	0.129		0.09	0.29	0.21	0.08
	Right side	0.067	0.069	0.211	0.060	0.060	0.068	0.086	0.14	0.34	0.20	0.21
	Top side	0.932	0.527	0.211	0.275	0.275	0.152	0.005	1.46	1.42	1.36	1.21
	Bottom side			0.211					0.00	0.21	0.00	0.00
FR1 n77 Part 27O Ant 2	Front	0.087	0.252	0.211	0.072	0.072	0.128	0.002	0.34	0.37	0.29	0.16
	Back	0.820	0.291	0.211	0.279	0.279	0.171	0.322	1.11	1.31	1.27	1.42
	Left side	0.245	0.070	0.211	0.065	0.065	0.129		0.32	0.52	0.44	0.31
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side	0.035	0.527	0.211	0.275	0.275	0.152	0.005	0.56	0.52	0.46	0.32
	Bottom side			0.211					0.00	0.21	0.00	0.00
FR1 n77 Part 27Q Ant 2	Front	0.073	0.252	0.211	0.072	0.072	0.128	0.002	0.33	0.36	0.27	0.15
	Back	0.938	0.291	0.211	0.279	0.279	0.171	0.322	1.23	1.43	1.39	1.54
	Left side	0.243	0.070	0.211	0.065	0.065	0.129		0.31	0.52	0.44	0.31
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side	0.091	0.527	0.211	0.275	0.275	0.152	0.005	0.62	0.58	0.52	0.37
	Bottom side			0.211					0.00	0.21	0.00	0.00
FR1 n78-PC2 Part 27O Ant 2	Front	0.093	0.252	0.211	0.072	0.072	0.128	0.002	0.35	0.38	0.29	0.17
	Back	0.924	0.291	0.211	0.279	0.279	0.171	0.322	1.22	1.41	1.37	1.53
	Left side	0.388	0.070	0.211	0.065	0.065	0.129		0.46	0.66	0.58	0.45
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side	0.056	0.527	0.211	0.275	0.275	0.152	0.005	0.58	0.54	0.48	0.34
	Bottom side			0.211					0.00	0.21	0.00	0.00
FR1 n78-PC2 Part 27Q Ant 2	Front	0.080	0.252	0.211	0.072	0.072	0.128	0.002	0.33	0.36	0.28	0.15
	Back	0.903	0.291	0.211	0.279	0.279	0.171	0.322	1.19	1.39	1.35	1.50
	Left side	0.321	0.070	0.211	0.065	0.065	0.129		0.39	0.60	0.52	0.39

	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side	0.100	0.527	0.211	0.275	0.275	0.152	0.005	0.63	0.59	0.53	0.38
	Bottom side			0.211					0.00	0.21	0.00	0.00

<SRS Mode>

FR1 Band	Exposure Position	1	2	3	4	5	6	7	1+2	1+3+5	1+4+6	1+4+7
		WWAN	WLAN2.4GHz Ant 4+6 WWAN+WLAN	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz Ant 5+6 WWAN+WLAN	WLAN5GHz Ant 5+6 WWAN+DBS	Bluetooth Ant 4	Bluetooth Ant 6	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n78 Part 27O Ant 3	Front	0.043	0.252	0.211	0.072	0.072	0.128	0.002	0.30	0.33	0.24	0.12
	Back	0.047	0.291	0.211	0.279	0.279	0.171	0.322	0.34	0.54	0.50	0.65
	Left side	0.045	0.070	0.211	0.065	0.065	0.129		0.12	0.32	0.24	0.11
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.039		0.211					0.04	0.25	0.04	0.04
FR1 n78 Part 27Q Ant 3	Front	0.039	0.252	0.211	0.072	0.072	0.128	0.002	0.29	0.32	0.24	0.11
	Back	0.048	0.291	0.211	0.279	0.279	0.171	0.322	0.34	0.54	0.50	0.65
	Left side	0.044	0.070	0.211	0.065	0.065	0.129		0.11	0.32	0.24	0.11
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.041		0.211					0.04	0.25	0.04	0.04
FR1 n78-PC2 Part 27O Ant 7	Front	0.044	0.252	0.211	0.072	0.072	0.128	0.002	0.30	0.33	0.24	0.12
	Back	0.764	0.291	0.211	0.279	0.279	0.171	0.322	1.05	1.25	1.21	1.36
	Left side	0.082	0.070	0.211	0.065	0.065	0.129		0.15	0.36	0.28	0.15
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side	0.280	0.527	0.211	0.275	0.275	0.152	0.005	0.81	0.77	0.71	0.56
	Bottom side			0.211					0.00	0.21	0.00	0.00
FR1 n78-PC2 Part 27Q Ant 7	Front	0.045	0.252	0.211	0.072	0.072	0.128	0.002	0.30	0.33	0.25	0.12
	Back	0.783	0.291	0.211	0.279	0.279	0.171	0.322	1.07	1.27	1.23	1.38
	Left side	0.071	0.070	0.211	0.065	0.065	0.129		0.14	0.35	0.27	0.14
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side	0.193	0.527	0.211	0.275	0.275	0.152	0.005	0.72	0.68	0.62	0.47
	Bottom side			0.211					0.00	0.21	0.00	0.00
FR1 n78 Part 27O Ant 8	Front	0.038	0.252	0.211	0.072	0.072	0.128	0.002	0.29	0.32	0.24	0.11
	Back	0.153	0.291	0.211	0.279	0.279	0.171	0.322	0.44	0.64	0.60	0.75
	Left side		0.070	0.211	0.065	0.065	0.129		0.07	0.28	0.19	0.07
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.045		0.211					0.04	0.26	0.04	0.04
FR1 n78 Part 27Q Ant 8	Front	0.024	0.252	0.211	0.072	0.072	0.128	0.002	0.28	0.31	0.22	0.10
	Back	0.171	0.291	0.211	0.279	0.279	0.171	0.322	0.46	0.66	0.62	0.77
	Left side		0.070	0.211	0.065	0.065	0.129		0.07	0.28	0.19	0.07
	Right side		0.069	0.211	0.060	0.060	0.068	0.086	0.07	0.27	0.13	0.15
	Top side		0.527	0.211	0.275	0.275	0.152	0.005	0.53	0.49	0.43	0.28
	Bottom side	0.031		0.211					0.03	0.24	0.03	0.03

17.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 4+6 DBS Only	WLAN 2.4GHz Ant 4+6 WWAN +WLAN	WLAN 2.4GHz Ant 4+6 WWAN DBS	WLAN 5GHz Ant 5+6 DBS Only	WLAN 5GHz Ant 5+6 WWAN +WLAN	WLAN 5GHz Ant 5+6 WWAN +DBS	Bluetooth Ant 4	Bluetooth Ant 6	WIFI 6E Ant 5+6							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
GSM850 Ant 0	Front	0.558	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.11	1.12	0.88	0.97	0.84	0.60
	Back	0.931	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.49	1.50	1.46	1.39	1.54	1.50
GSM850 Ant 1	Front	0.573	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.13	1.14	0.89	0.99	0.86	0.61
	Back	0.645	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.20	1.21	1.17	1.10	1.25	1.21
WCDMA II Ant 0	Front	0.433	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.99	1.00	0.75	0.85	0.72	0.47
	Back	0.552	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.11	1.12	1.08	1.01	1.16	1.12
WCDMA IV Ant 0	Front	0.421	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.98	0.99	0.74	0.83	0.71	0.46
	Back	0.515	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.07	1.08	1.04	0.97	1.12	1.08
WCDMA V Ant 0	Front	0.555	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.11	1.12	0.88	0.97	0.84	0.60
	Back	0.924	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.48	1.49	1.45	1.38	1.53	1.49
WCDMA V Ant 1	Front	0.466	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.02	1.03	0.79	0.88	0.75	0.51
	Back	0.653	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.21	1.22	1.18	1.11	1.26	1.22
LTE Band 7 Ant 0	Front	0.323	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.88	0.89	0.64	0.74	0.61	0.36
	Back	0.384	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	0.94	0.95	0.91	0.84	0.99	0.95
LTE Band 7 Ant 1	Front	0.280	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.83	0.85	0.60	0.69	0.57	0.32
	Back	0.417	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	0.97	0.98	0.95	0.87	1.02	0.99
LTE Band 12(17) Ant 0	Front	0.445	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.00	1.01	0.77	0.86	0.73	0.49
	Back	0.843	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.40	1.41	1.37	1.30	1.45	1.41
LTE Band 12(17) Ant 1	Front	0.484	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.04	1.05	0.80	0.90	0.77	0.52
	Back	0.535	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.09	1.10	1.06	0.99	1.14	1.10
LTE Band 13 Ant 0	Front	0.529	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.08	1.10	0.85	0.94	0.82	0.57
	Back	0.887	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.44	1.45	1.42	1.34	1.49	1.46
LTE Band 13 Ant 1	Front	0.481	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.04	1.05	0.80	0.89	0.77	0.52
	Back	0.564	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.12	1.13	1.09	1.02	1.17	1.13
LTE Band 25(2) Ant 0	Front	0.370	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.92	0.94	0.69	0.78	0.66	0.41
	Back	0.544	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.10	1.11	1.07	1.00	1.15	1.11
LTE Band 25(2) Ant 1	Front	0.451	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.01	1.02	0.77	0.86	0.74	0.49
	Back	0.620	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.17	1.19	1.15	1.08	1.23	1.19
LTE Band 26(5) Ant 0	Front	0.435	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.99	1.00	0.76	0.85	0.72	0.48
	Back	0.940	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.49	1.51	1.47	1.40	1.55	1.51
LTE Band 26(5) Ant 1	Front	0.920	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.47	1.49	1.24	1.33	1.21	0.96
	Back	0.442	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.00	1.01	0.97	0.90	1.05	1.01
LTE Band 66(4) Ant 0	Front	0.405	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.96	0.97	0.73	0.82	0.69	0.45
	Back	0.505	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.06	1.07	1.03	0.96	1.11	1.07
LTE Band 66(4) Ant 1	Front	0.495	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.05	1.06	0.82	0.91	0.78	0.54
	Back	0.614	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.17	1.18	1.14	1.07	1.22	1.18
LTE Band 38 Ant 0	Front	0.272	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.83	0.84	0.59	0.68	0.56	0.31
	Back	0.344	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	0.90	0.91	0.87	0.80	0.95	0.91
LTE Band 38 Ant 1	Front	0.296	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.85	0.86	0.62	0.71	0.58	0.34
	Back	0.467	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.02	1.03	1.00	0.92	1.07	1.04
LTE Band 41 Ant 0	Front	0.338	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.89	0.90	0.66	0.75	0.62	0.38
	Back	0.413	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	0.97	0.98	0.94	0.87	1.02	0.98
LTE Band 41 Ant 1	Front	0.235	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.79	0.80	0.56	0.65	0.52	0.28
	Back	0.405	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	0.96	0.97	0.93	0.86	1.01	0.97
LTE Band 42 Part27Q Ant 2	Front	0.066	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.62	0.63	0.39	0.48	0.35	0.11
	Back	0.976	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.53	1.54	1.50	1.43	1.58	1.54
LTE Band 38-PC2 Ant 0	Front	0.946	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.50	1.51	1.27	1.36	1.23	0.99
	Back	0.946	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.50	1.51	1.47	1.40	1.55	1.51

LTE Band 38-PC2 Ant 1	Front	0.933	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.49	1.50	1.25	1.35	1.22	0.97
	Back	0.933	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.49	1.50	1.46	1.39	1.54	1.50
LTE Band 48 Ant 2	Front	0.077	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.63	0.64	0.40	0.49	0.36	0.12
	Back	0.903	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.46	1.47	1.43	1.36	1.51	1.47

<5GNR Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 DBS Only 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 WWAN +WLAN 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 WWAN +DBS 1g SAR (W/kg)	WLAN 5GHz Ant 5+6 DBS Only 1g SAR (W/kg)	WLAN5 GHz Ant 5+6 WWAN +WLAN 1g SAR (W/kg)	WLAN 5GHz Ant 5+6 WWAN +DBS 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	WIFI 6E Ant 5+6 1g SAR (W/kg)							
FR1 n5 Ant 0	Front	0.603	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.16	1.17	0.92	1.02	0.89	0.64
	Back	0.939	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.49	1.51	1.47	1.39	1.55	1.51
FR1 n66 Ant 1	Front	0.573	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.13	1.14	0.89	0.99	0.86	0.61
	Back	0.776	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.33	1.34	1.30	1.23	1.38	1.34
FR1 n7 Ant 0	Front	0.386	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.94	0.95	0.71	0.80	0.67	0.43
	Back	0.448	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.00	1.01	0.98	0.90	1.05	1.02
FR1 n7 Ant 1	Front	0.497	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	1.05	1.06	0.82	0.91	0.78	0.54
	Back	0.686	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.24	1.25	1.21	1.14	1.29	1.25
FR1 n38 Ant 1	Front	0.285	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.84	0.85	0.61	0.70	0.57	0.33
	Back	0.445	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.00	1.01	0.97	0.90	1.05	1.01
FR1 n77 Part 27O Ant 2	Front	0.087	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.64	0.65	0.41	0.50	0.37	0.13
	Back	0.820	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.37	1.39	1.35	1.28	1.43	1.39
FR1 n77 Part 27Q Ant 2	Front	0.073	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.63	0.64	0.39	0.49	0.36	0.11
	Back	0.938	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.49	1.50	1.47	1.39	1.54	1.51
FR1 n78-PC2 Part 27O Ant 2	Front	0.093	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.65	0.66	0.41	0.51	0.38	0.13
	Back	0.924	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.48	1.49	1.45	1.38	1.53	1.49
FR1 n78-PC2 Part 27Q Ant 2	Front	0.080	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.63	0.65	0.40	0.49	0.37	0.12
	Back	0.903	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.46	1.47	1.43	1.36	1.51	1.47

<SRS Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 4+6 DBS Only	WLAN 2.4GHz Ant 4+6 WWAN +WLAN	WLAN 2.4GHz Ant 4+6 WWAN +DBS	WLAN 5GHz Ant 5+6 DBS Only	WLAN 5GHz Ant 5+6 WWAN +WLAN	WLAN 5GHz Ant 5+6 WWAN +DBS	Bluetooth Ant 4	Bluetooth Ant 6	WIFI 6E Ant 5+6							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
FR1 n78 Part 27O Ant 3	Front	0.043	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.60	0.61	0.36	0.46	0.33	0.08
	Back	0.047	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	0.60	0.61	0.58	0.50	0.65	0.62
FR1 n78 Part 27Q Ant 3	Front	0.039	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.59	0.60	0.36	0.45	0.32	0.08
	Back	0.048	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	0.60	0.61	0.58	0.50	0.65	0.62
FR1 n78-PC2 Part 27O Ant 7	Front	0.033	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.59	0.60	0.35	0.44	0.32	0.07
	Back	0.648	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.20	1.21	1.18	1.10	1.25	1.22
FR1 n78-PC2 Part 27Q Ant 7	Front	0.042	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.60	0.61	0.36	0.45	0.33	0.08
	Back	0.651	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	1.20	1.22	1.18	1.11	1.26	1.22
FR1 n78 Part 27O Ant 8	Front	0.033	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.59	0.60	0.35	0.45	0.32	0.07
	Back	0.133	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	0.69	0.70	0.66	0.59	0.74	0.70
FR1 n78 Part 27Q Ant 8	Front	0.023	0.714	0.554	0.282	0.749	0.284	0.284	0.128	0.002	0.038	1.46	0.58	0.59	0.34	0.44	0.31	0.06
	Back	0.164	0.714	0.554	0.282	0.749	0.284	0.284	0.171	0.322	0.246	1.46	0.72	0.73	0.69	0.62	0.77	0.73

< sensor off>

WWAN Band	Exposure Position	1	2	3	**1+2+3**
		WWAN	WLAN2.4GHz	WLAN5GHz	**Summed**
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	**1g SAR (W/kg)**
WWAN Band	Front at 18mm -	0.682	0.134	0.139	0.96
	Back at 21mm -	0.785	0.144	0.409	1.34

17.5 Product specific 10g SAR Exposure Conditions

Remark:
1. For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	2+5 Summed 10g SAR (W/kg)	1+3 Summed 10g SAR (W/kg)	1+4+7 Summed 10g SAR (W/kg)	1+6 Summed 10g SAR (W/kg)	2+8 Summed 10g SAR (W/kg)	1+4+8 Summed 10g SAR (W/kg)
		WWAN	WLAN2.4GHz Ant 4+6 DBS Only	WLAN2.4GHz Ant 4+6 WWAN+WLAN	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz Ant 5+6 DBS Only	WLAN5GHz Ant 5+6 WWAN+WLAN	WLAN5GHz Ant 5+6 WWAN+DBS	WIFI 6E						
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)						
GSM850 Ant 0	Front		1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	1.40	1.46	1.39	1.81	0.79
	Back	1.735	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.14	3.20	3.13	2.30	3.01
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.77	0.75
GSM850 Ant 1	Front		1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	1.40	1.46	1.39	1.81	0.79
	Back		1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	1.40	1.46	1.39	2.30	1.28
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side	1.745	1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	3.15	3.21	3.14	1.93	2.66
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.77	0.75
GSM1900 Ant 0	Front	2.399	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.80	**3.86**	3.79	1.81	3.19
	Back	2.399	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.80	3.86	3.79	2.30	3.68
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side	2.399	1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	3.80	3.86	3.79	1.77	3.15
WCDMA II Ant 0	Front	2.208	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.61	3.67	3.60	1.81	3.00
	Back	2.208	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.61	3.67	3.60	2.30	3.48
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side	2.208	1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	3.61	3.67	3.60	1.77	2.96
WCDMA IV Ant 0	Front	2.264	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.67	3.73	3.66	1.81	3.06
	Back	2.264	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.67	3.73	3.66	2.30	3.54
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side	2.264	1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	3.67	3.73	3.66	1.77	3.01
WCDMA V Ant 0	Front		1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	1.40	1.46	1.39	1.81	0.79
	Back	1.943	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.34	3.40	3.33	2.30	3.22
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.77	0.75
LTE Band 7 Ant 0	Front	2.085	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.49	3.55	3.48	1.81	2.88
	Back	2.085	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.49	3.55	3.48	2.30	3.36
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side	2.085	1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	3.49	3.55	3.48	1.77	2.83
LTE Band 7 Ant 1	Front	2.224	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.63	3.69	3.62	1.81	3.02
	Back	2.224	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.63	3.69	3.62	2.30	3.50
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side	2.224	1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	3.63	3.69	3.62	1.93	3.14

	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.77	0.75
LTE Band 25(2) Ant 0	Front	2.265	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.67	3.73	3.66	1.81	3.06
	Back	2.265	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.67	3.73	3.66	2.30	3.54
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side	2.265	1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	3.67	3.73	3.66	1.77	3.01
LTE Band 25(2) Ant 1	Front	2.368	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.77	3.83	3.76	1.81	3.16
	Back	2.368	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.77	3.83	3.76	2.30	3.64
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side	2.368	1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	3.77	3.83	3.76	1.93	3.28
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.77	0.75
LTE Band 66(4) Ant 0	Front	2.399	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.80	3.86	3.79	1.81	3.19
	Back	2.399	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.80	3.86	3.79	2.30	3.68
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side	2.399	1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	3.80	3.86	3.79	1.77	3.15
LTE Band 66(4) Ant 1	Front	2.295	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.70	3.76	3.69	1.81	3.09
	Back	2.295	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.70	3.76	3.69	2.30	3.57
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side	2.295	1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	3.70	3.76	3.69	1.93	3.21
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.77	0.75
LTE Band 38 Ant 0	Front	1.159	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	2.56	2.62	2.55	1.81	1.95
	Back	1.550	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	2.95	3.01	2.94	2.30	2.83
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side	1.414	1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	2.82	2.88	2.81	1.77	2.16
LTE Band 38-PC2 Ant 0	Front	1.919	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.32	3.38	3.31	1.81	2.71
	Back	1.919	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.32	3.38	3.31	2.30	3.20
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side	1.919	1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	3.32	3.38	3.31	1.77	2.67
LTE Band 38 Ant 1	Front	2.277	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.68	3.74	3.67	1.81	3.07
	Back	2.277	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.68	3.74	3.46	2.30	3.55
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side	2.277	1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	3.68	3.74	3.67	1.93	3.19
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.77	0.75
LTE Band 38-PC2 Ant 1	Front	2.318	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.72	3.78	3.71	1.81	3.11
	Back	2.318	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.72	3.78	3.71	2.30	3.59
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side	2.318	1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	3.72	3.78	3.71	1.93	3.23
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.77	0.75
LTE Band 41 Ant 0	Front	1.730	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.13	3.19	3.12	1.81	2.52
	Back	1.730	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.13	3.19	3.12	2.30	3.01
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side	1.730	1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	3.13	3.19	3.12	1.77	2.48
LTE Band	Front	2.226	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.63	3.69	3.62	1.81	3.02

41 Ant 1	Back	2.226	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.63	3.69	3.62	2.30	3.50
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side	2.226	1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	3.63	3.69	3.62	1.93	3.14
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.77	0.75
LTE Band 42 Part27Q Ant 2	Front		1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	1.40	1.46	1.39	1.81	0.79
	Back	2.252	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.65	3.71	3.64	2.30	3.53
	Left side	2.252	1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	3.65	3.71	3.64	1.86	3.09
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.77	0.75
LTE Band 48 Ant 2	Front		1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	1.40	1.46	1.39	1.81	0.79
	Back	2.265	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.67	3.73	3.66	2.30	3.54
	Left side	2.265	1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	3.67	3.73	3.66	1.86	3.10
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.86	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.93	0.91
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.77	0.75

<5GNR Mode>

FR1 Band	Exposure Position	1	2	3	4	5	6	7	8	2+5 Summed 10g SAR (W/kg)	1+3 Summed 10g SAR (W/kg)	1+4+7 Summed 10g SAR (W/kg)	1+6 Summed 10g SAR (W/kg)	2+8 Summed 10g SAR (W/kg)	1+4+8 Summed 10g SAR (W/kg)
		WWAN	WLAN2.4GHz Ant 4+6 DBS Only	WLAN2.4GHz Ant 4+6 WWAN + WLAN	WLAN2.4GHz Ant 4+6 WWAN + DBS	WLAN5GHz Ant 5+6 DBS Only	WLAN5GHz Ant 5+6 WWAN + WLAN	WLAN5GHz Ant 5+6 WWAN + DBS	WIFI 6E						
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)						
FR1 n66 Ant 1	Front	2.184	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.59	3.65	3.58	1.76	2.98
	Back	2.184	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.59	3.65	3.58	1.76	3.46
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Top side	2.184	1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	3.59	3.65	3.58	1.76	3.10
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.76	0.75
FR1 n7 Ant 0	Front	2.213	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.61	3.67	3.60	1.76	3.01
	Back	2.213	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.61	3.67	3.60	1.76	3.49
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.76	0.91
	Bottom side	2.213	1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	3.61	3.67	3.60	1.76	2.96
FR1 n7 Ant 1	Front	2.335	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.74	3.80	3.73	1.76	3.13
	Back	2.335	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.74	3.80	3.73	1.76	3.61
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Top side	2.335	1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	3.74	3.80	3.73	1.76	3.25
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.76	0.75
FR1 n38 Ant 1	Front	2.244	1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	3.65	3.71	3.64	1.76	3.04
	Back	2.244	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.65	3.71	3.64	1.76	3.52
	Left side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Top side	2.244	1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	3.65	3.71	3.64	1.76	3.16
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.76	0.75
FR1 n77 Part 27O Ant 2	Front		1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	1.40	1.46	1.39	1.76	0.79
	Back	2.076	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.48	3.54	3.47	1.76	3.35
	Left side	1.312	1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	2.71	2.77	2.70	1.76	2.15
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.76	0.91
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.76	0.75
FR1 n77 Part 27Q Ant 2	Front		1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	1.40	1.46	1.39	1.76	0.79
	Back	2.044	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.45	3.51	3.44	1.76	3.32
	Left side	1.054	1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	2.46	2.52	2.45	1.76	1.89
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.76	0.91
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.76	0.75
FR1 n78-PC2 Part 27O Ant 2	Front		1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	1.40	1.46	1.39	1.76	0.79
	Back	1.731	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.13	3.19	3.12	1.76	3.01
	Left side	1.472	1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	2.87	2.93	2.86	1.76	2.31
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.76	0.91
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.76	0.75
FR1 n78-PC2 Part 27Q Ant 2	Front		1.761	1.401	0.742	1.737	1.391	0.719	0.052	3.50	1.40	1.46	1.39	1.76	0.79
	Back	2.037	1.761	1.401	0.742	1.737	1.391	0.719	0.534	3.50	3.44	3.50	3.43	1.76	3.31
	Left side	1.476	1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	2.88	2.94	2.87	1.76	2.31
	Right side		1.761	1.401	0.742	1.737	1.391	0.719	0.094	3.50	1.40	1.46	1.39	1.76	0.84
	Top side		1.761	1.401	0.742	1.737	1.391	0.719	0.172	3.50	1.40	1.46	1.39	1.76	0.91
	Bottom side		1.761	1.401	0.742	1.737	1.391	0.719	0.007	3.50	1.40	1.46	1.39	1.76	0.75

18. Supplemental tuner tests results

General Note:

1. This device impedance tuner (158 status) antenna tuning techniques in the WCDMA II/IV/V, LTE Band 2/4/5/7/12/13/17/25/26/38/41/66, 5GNR n5/n7 for ANT0.
2. This device impedance tuner (186 status) antenna tuning techniques in the WCDMA V, LTE Band 2/4/5/12/13/17/25/26/38/41/66, 5GNR n7/n38/n66 for ANT1.
3. LTE B38 / B4 / B5 / B17 SAR test was covered by LTE B25 / B66 / B26 / B12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
4. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching.
5. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
6. To evaluate all of the tuner states, the 158 tuner states for ANT0 and the 186 tuner states for ANT1 are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
7. According to TCBC 201904 workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
8. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).

18.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix F.

Test Engineer : Nick Hu, Seven Xu, Bruce Li

19. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be ≤ 30%, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

20. References

[1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”

[2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992

[3] IEEE Std. 1528-2013, “IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, Sep 2013

[4] SPEAG DASY System Handbook

[5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.

[6] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.

[7] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015

[8] FCC KDB 648474 D04 v01r03, “SAR Evaluation Considerations for Wireless Handsets”, Oct 2015.

[9] FCC KDB 248227 D01 v02r02, “SAR Guidance for IEEE 802.11 (WiFi) Transmitters”, Oct 2015.

[10] FCC KDB 616217 D04 v01r02, “SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers”, Oct 2015

[11] FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, Oct 2015

[12] FCC KDB 941225 D05 v02r05, “SAR Evaluation Considerations for LTE Devices”, Dec 2015

[13] FCC KDB 941225 D05A v01r02, “Rel. 10 LTE SAR Test Guidance and KDB Inquiries”, Oct 2015

[14] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

------THE END------

Appendix A. Plots of System Performance Check

The plots are shown as follows.

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2021.10.27

System Check_Head_750MHz

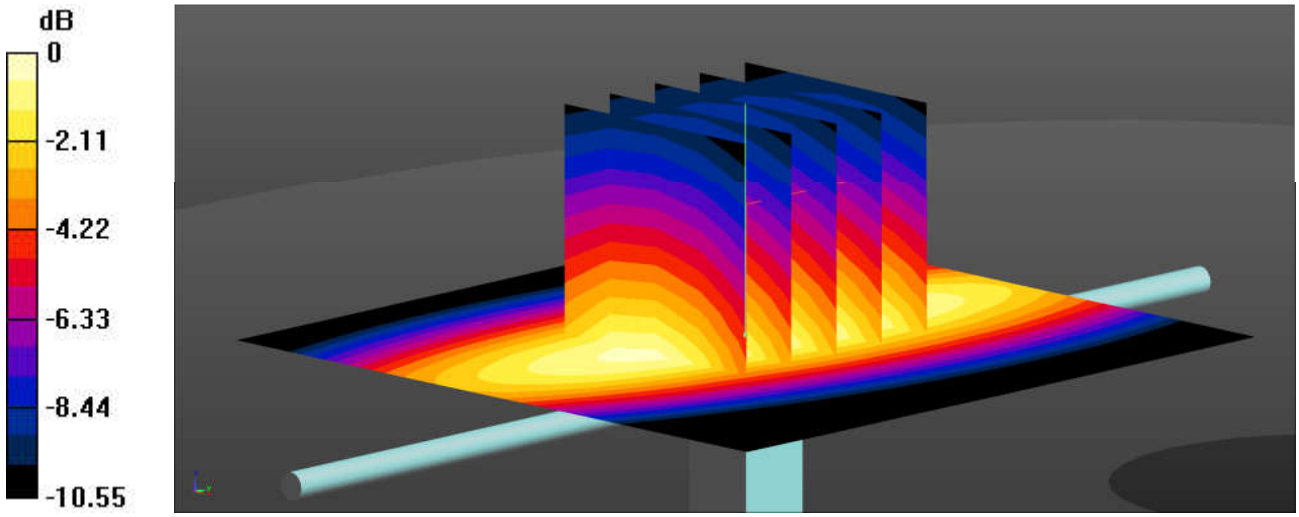
DUT: D750V3 - SN:1087

Communication System: UID 0, CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: HSL_750 Medium parameters used: f = 750 MHz; σ = 0.916 S/m; ε_r = 43.396; ρ = 1000 kg/m^3
Ambient Temperature：23.1 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7630; ConvF(10.38, 10.38, 10.38); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.557 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.60 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 0.631 W/kg
SAR(1 g) = 0.417 W/kg; SAR(10 g) = 0.275 W/kg
Maximum value of SAR (measured) = 0.559 W/kg



0 dB = 0.559 W/kg = -2.53 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2021.10.28

System Check_Head_835MHz

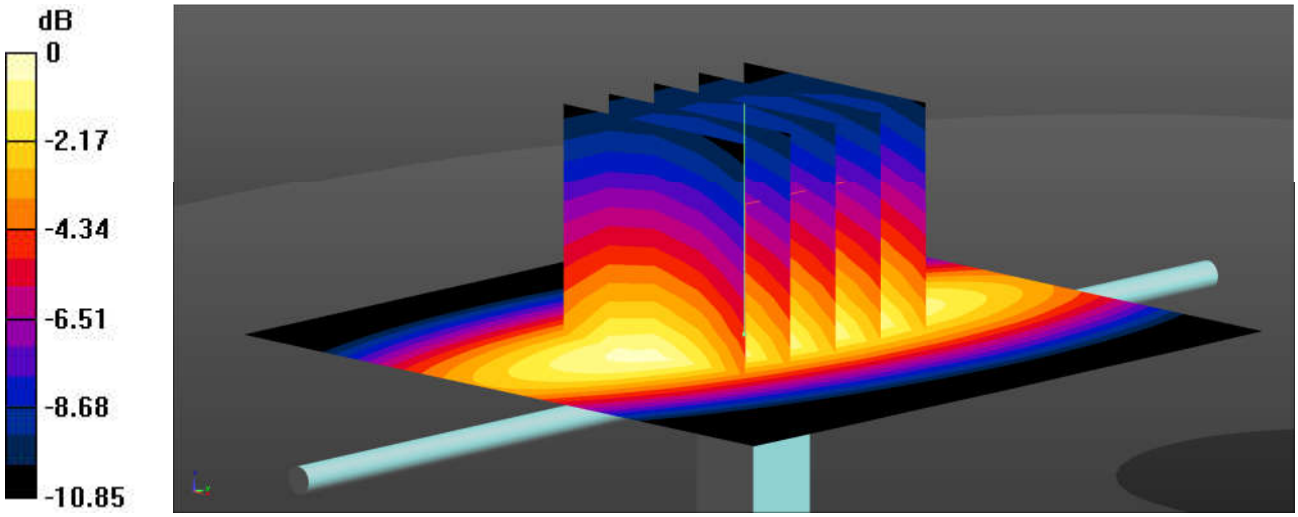
DUT: D835V2 - SN:4d258

Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used: f = 835 MHz; σ = 0.933 S/m; ε_r = 41.176; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7630; ConvF(10.24, 10.24, 10.24); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.680 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.84 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.772 W/kg
SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.328 W/kg
Maximum value of SAR (measured) = 0.680 W/kg



0 dB = 0.680 W/kg = -1.67 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2021.10.29

System Check_Head_1750MHz

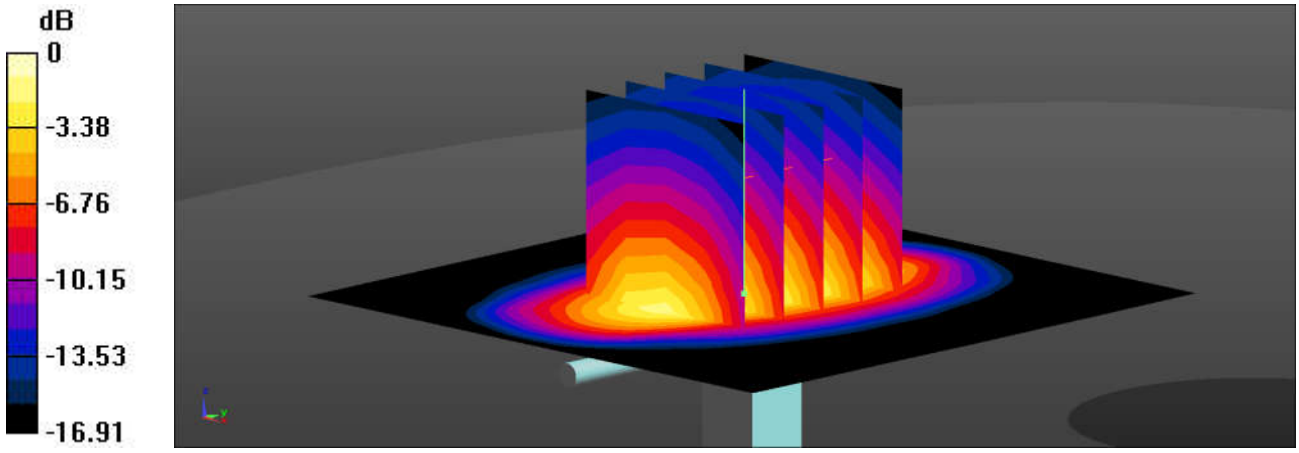
DUT: D1750V2 - SN:1090

Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: f = 1750 MHz; σ = 1.394 S/m; ε_r = 40.5; ρ = 1000 kg/m^3
Ambient Temperature：23.1 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7630; ConvF(8.86, 8.86, 8.86); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.85 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 46.49 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.41 W/kg
SAR(1 g) = 1.87 W/kg; SAR(10 g) = 0.994 W/kg
Maximum value of SAR (measured) = 2.88 W/kg



0 dB = 2.88 W/kg = 4.59 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2021.10.30

System Check_Head_1900MHz

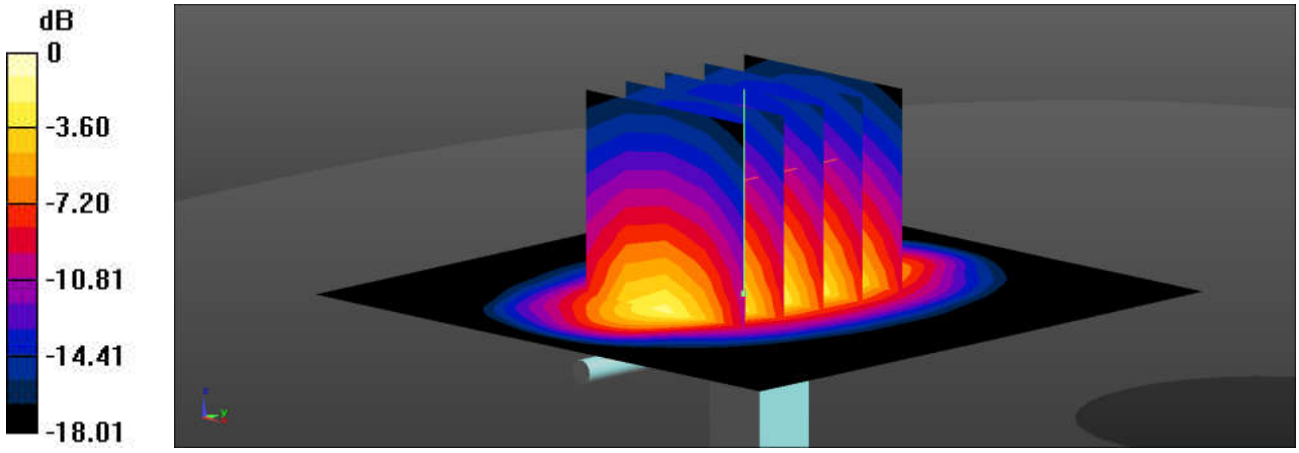
DUT: D1900V2 - SN:5d170

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: f = 1900 MHz; σ = 1.458 S/m; ε_r = 39.79; ρ = 1000 kg/m^3
Ambient Temperature：23.1 ℃; Liquid Temperature：22.9 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7630; ConvF(8.56, 8.56, 8.56); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.13 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 46.92 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 3.80 W/kg
SAR(1 g) = 2.01 W/kg; SAR(10 g) = 1.04 W/kg
Maximum value of SAR (measured) = 3.18 W/kg



0 dB = 3.18 W/kg = 5.02 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2021.10.31

System Check_Head_2450MHz

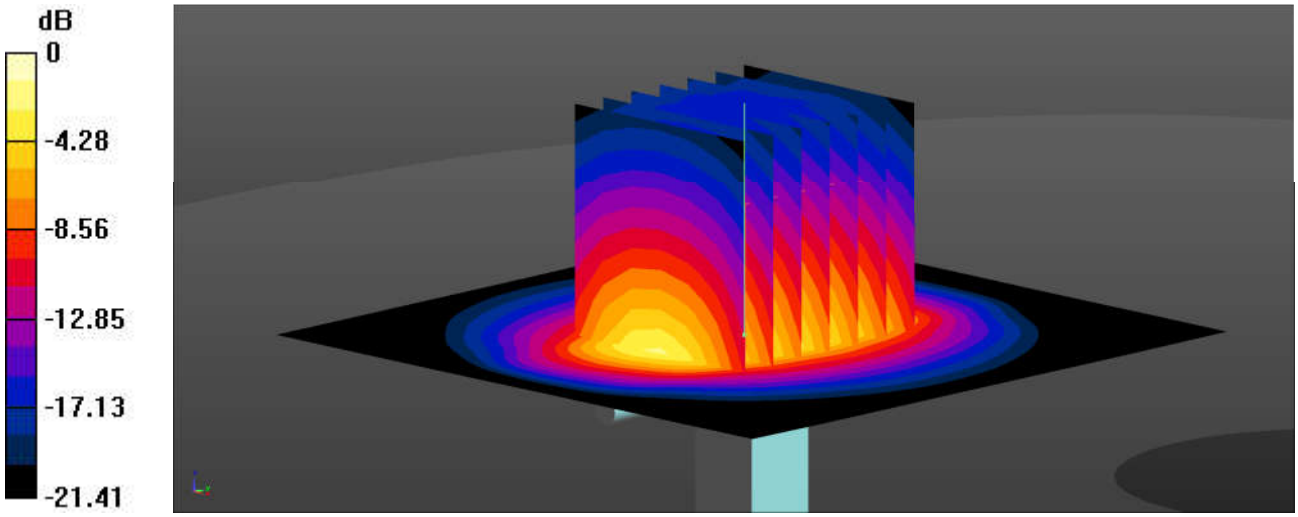
DUT: D2450V2 - SN:908

Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: HSL_2450 Medium parameters used: f = 2450 MHz; σ = 1.805 S/m; ε_r = 38.565; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7630; ConvF(8.14, 8.14, 8.14); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 3.93 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 47.87 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 4.68 W/kg
SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.13 W/kg
Maximum value of SAR (measured) = 3.91 W/kg



0 dB = 3.91 W/kg = 5.92 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2021.11.1

System Check_Head_2600MHz

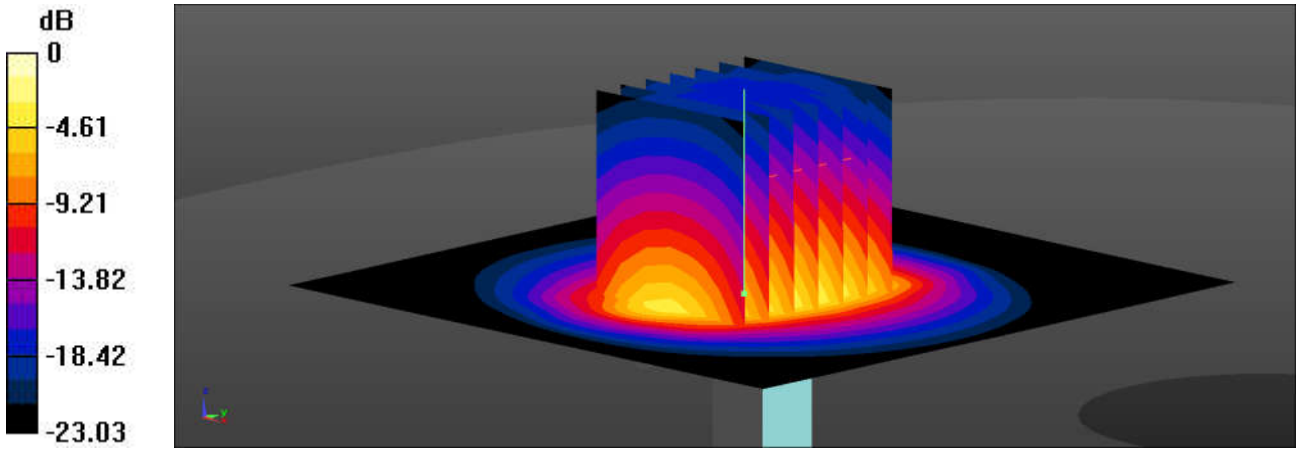
DUT: D2600V2 - SN:1061

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: HSL_2600 Medium parameters used: f = 2600 MHz; σ = 1.923 S/m; ε_r = 38.258; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7630; ConvF(7.85, 7.85, 7.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 4.34 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.66 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 5.49 W/kg
SAR(1 g) = 2.69 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 4.39 W/kg



0 dB = 4.39 W/kg = 6.42 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2021.11.3

System Check_Head_3500MHz

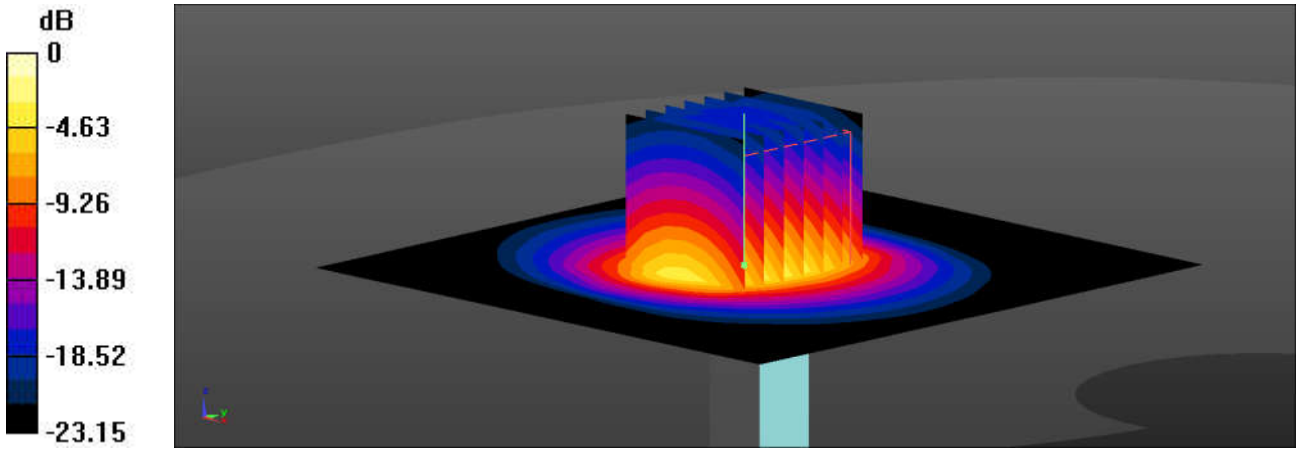
DUT: D3500V2 - SN:1037

Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium: HSL_3500 Medium parameters used: f = 3500 MHz; σ = 2.787 S/m; ε_r = 39.107; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7630; ConvF(7.19, 7.19, 7.19); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 5.03 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 34.66 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 7.19 W/kg
SAR(1 g) = 3.19 W/kg; SAR(10 g) = 1.23 W/kg
Maximum value of SAR (measured) = 5.58 W/kg



0 dB = 5.58 W/kg = 7.47 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2021.11.4

System Check_Head_3700MHz

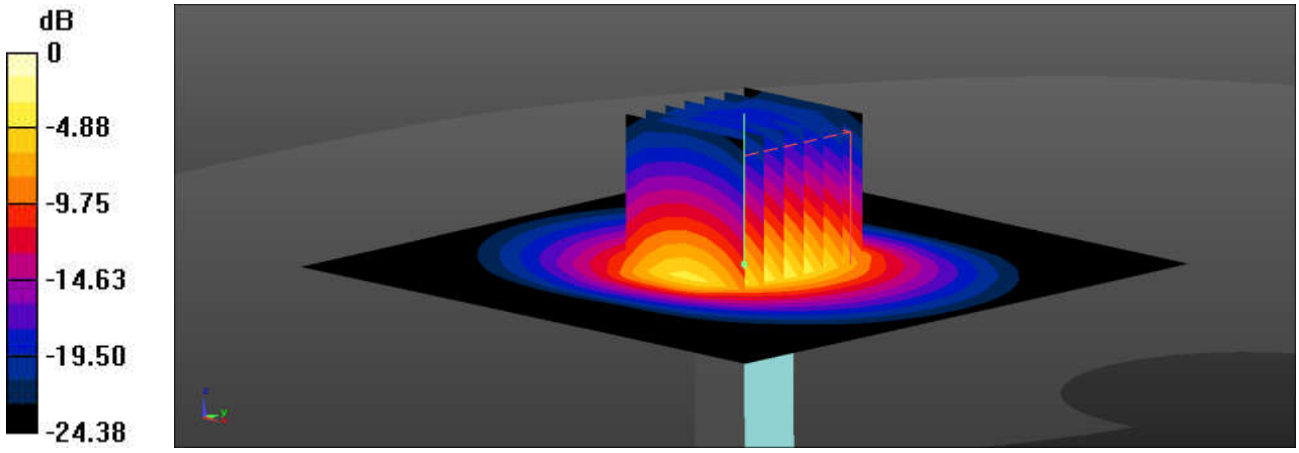
DUT: D3700V2 - SN:1008

Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium: HSL_3700 Medium parameters used: f = 3700 MHz; σ = 3.023 S/m; ε_r = 38.717; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7630; ConvF(7.13, 7.13, 7.13); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 5.03 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 32.90 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 7.43 W/kg
SAR(1 g) = 3.15 W/kg; SAR(10 g) = 1.27 W/kg
Maximum value of SAR (measured) = 5.65 W/kg



0 dB = 5.65 W/kg = 7.52 dBW/kg