



FCC SAR Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2213-1, XT2213DL, XT2213-2,
XT2213-3
FCC ID : IHDT56AA3
STANDARD : FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Kunshan), 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 Inc. (Kunshan), the test report shall not be reproduced except in full.

Tony Zhang

Reviewed by: Tony Zhang / Supervisor

Kat Yin

Approved by: Kat Yin / Manager



Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT2213-1, XT2213DL, XT2213-2, XT2213-3**, 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	0.56	1.40	1.40	1.59
		GSM1900	0.26	1.40	1.40	
	WCDMA	Band II	0.49	1.35	1.30	
		Band IV	0.17	1.39	1.39	
		Band V	0.57	1.38	1.38	
	LTE	Band 5(ANT0)	1.13	0.63	0.63	
		Band 7	0.54	1.37	1.37	
		Band 12/ 17	0.58	0.85	0.85	
		Band 13	0.77	1.27	1.11	
		Band 14	0.58	1.40	1.14	
		Band 25/ 2	1.23	1.28	1.26	
		Band 26/ 5(ANT1)	1.13	1.38	1.36	
		Band 30	0.23	1.28	1.22	
		Band 41/38	0.24	1.31	1.31	
		Band 48	1.29	1.27	1.27	
		Band 66/ 4	1.22	1.40	1.40	
	Band 71	0.48	0.83	0.83		
	5G NR	n5	0.53	0.55	0.55	
		n12	0.54	0.59	0.40	
		n14	0.31	0.89	0.73	
		n25/n2	0.60	1.40	1.37	
		n26	0.27	1.14	0.96	
		n30	0.57	0.63	0.60	
n71		0.42	0.51	0.51		
n41		0.55	1.12	1.12		
n70		0.20	1.39	1.39		
n66	0.54	1.39	1.39			
n77/ n78	1.12	1.36	1.36			
DTS	WLAN	2.4GHz WLAN	1.27	0.17	1.16	1.56
NII		5GHz WLAN	1.18	0.25	1.19	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.12	0.11	0.11	1.50



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	2.96	3.99
		GSM1900	3.43	
	WCDMA	Band II	3.37	
		Band IV	3.45	
		Band V	2.87	
	LTE	Band 5(ANT0)	1.56	
		Band 7	3.37	
		Band 13	2.12	
		Band 14	2.04	
		Band 25/ 2	3.45	
		Band 26/ 5(ANT1)	2.61	
		Band 30	3.41	
		Band 41/38	3.49	
		Band 48	2.57	
		Band 66/ 4	3.42	
	5G NR	n25/n2	3.32	
		n30	1.59	
		n41	3.26	
n70		3.20		
n66		3.47		
n77/ n78		3.45		
DTS	WLAN	2.4GHz WLAN	1.49	3.97
NII		5GHz WLAN	3.16	3.99
Date of Testing:			2021/12/23 ~ 2022/1/21	

Remark:

1. This device supports LTE B2 / B4 / B5 / B17 / B38 and B25 / B66 / B26 / B12 / B41. Since the supported frequency span for LTE B2 / B4 / B5 / B17 / B38 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B12 / B41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25 / B66 / B26 / B12 / B41.
2. This device supports 5GNR n2/ n78 and 5GNR n25/ n77. Since the supported frequency span for 5GNR n2/ n78 falls completely within the supports frequency span for 5GNR n25/ n77, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for 5GNR n25, n77.

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

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
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.
	SAR02-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	XT2213-1, XT2213DL, XT2213-2, XT2213-3
FCC ID	IHDT56AA3
IMEI Code	Sample 1: 353739480012265 Sample 2: 353739480025465
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 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 ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM (Downlink only) 5G NR : CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40



	WLAN 5GHz 802.11ac VHT20/MHT40/MHT80 Bluetooth BR/EDR/LE
HW Version	DVT2
SW Version	S1SA32.27
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).
4. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
5. The device implements Proximity sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table. Full power table and reduced power table (DSI 2: receiver on reduced power for head; DSI 3: P-sensor on for Body Worn; DSI 7: hotspot on; DSI 6: P-sensor on for handheld; DSI 4: receiver off/P-sensor off).
6. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and Handheld.
7. 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.
8. LTE band 41 supports HPUE, we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
9. 5G NR n41/n77/n78 HPUE with higher power, n41/n77/n78 HPUE SAR can represent power class 3 level SAR.
10. There are three samples, the difference between them could be referred to the XT2213-1, XT2213DL, XT2213-2, XT2213-3_Operational Description of Product Equality Declaration which is exhibited separately. According to the difference, we choose the sample 1 to full test and the sample 2 are verified the difference. For sample 3, the differences do not affect the test, so sample 3 is not tested.
11. 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.
12. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
13. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
14. 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.
15. 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.
16. For 5G NR EN-DC mode, standalone SAR performed for 5G NR band with the maximum power, EN-DC SAR summed 5G NR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
17. The different model name is for different market purpose.
18. This device supports 5G NR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.



<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n2	FDD	15	5, 10, 15, 20, 25, 30
	n5	FDD	15	5, 10, 15, 20, 25
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 30, 40
	n71	FDD	15	5, 10, 15, 20
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 100
	n77	TDD	30	10, 15, 20, 40, 50, 60, 80, 90, 100
n78	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100	
SA	n2	FDD	15	5, 10, 15, 20, 25, 30
	n5	FDD	15	5, 10, 15, 20, 25
	n12	FDD	15	5, 10, 15
	n14	FDD	15	5, 10
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
	n26	FDD	15	5, 10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 30, 40
	n70	FDD	15	5, 10, 15
	n71	FDD	15	5, 10, 15, 20
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 100
	n77	TDD	30	10, 15, 20, 40, 50, 60, 80, 90, 100
	n78	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100



4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																															
FCC ID	IHDT56AA3																																																														
Equipment Name	Mobile Cellular Phone																																																														
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																														
Channel Bandwidth	LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																														
uplink modulations used	QPSK / 16QAM / 64QAM																																																														
LTE Voice / Data requirements	Voice and Data																																																														
LTE Release Version	R15, Cat13																																																														
CA Support	Supported, Uplink and Downlink																																																														
LTE MPR permanently built-in by design	<p>Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</p> <table border="1"> <thead> <tr> <th rowspan="2">Modulation</th> <th colspan="6">Channel bandwidth / Transmission bandwidth (N_{ch})</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> </thead> <tbody> <tr> <td>QPSK</td> <td>> 5</td> <td>> 4</td> <td>> 8</td> <td>> 12</td> <td>> 15</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>≤ 15</td> <td>≤ 18</td> <td>≤ 1</td> </tr> <tr> <td>64 QAM</td> <td>> 5</td> <td>> 4</td> <td>> 8</td> <td>> 12</td> <td>> 15</td> <td>> 18</td> <td>≤ 2</td> </tr> <tr> <td>256 QAM</td> <td>≤ 5</td> <td>≤ 4</td> <td>≤ 8</td> <td>≤ 12</td> <td>≤ 15</td> <td>≤ 18</td> <td>≤ 2</td> </tr> <tr> <td>256 QAM</td> <td>> 5</td> <td>> 4</td> <td>> 8</td> <td>> 12</td> <td>> 15</td> <td>> 18</td> <td>≤ 3</td> </tr> <tr> <td></td> <td colspan="6" style="text-align: center;">≥ 1</td> <td>≤ 5</td> </tr> </tbody> </table>	Modulation	Channel bandwidth / Transmission bandwidth (N _{ch})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 15	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 15	≤ 18	≤ 1	64 QAM	> 5	> 4	> 8	> 12	> 15	> 18	≤ 2	256 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 15	≤ 18	≤ 2	256 QAM	> 5	> 4	> 8	> 12	> 15	> 18	≤ 3		≥ 1						≤ 5
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	≥ 1						≤ 5																																																								
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																														
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																														
Power reduction applied to satisfy SAR compliance	Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body-worn/hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 13.																																																														
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 13.																																																														
LTE Carrier Aggregation Additional Information	1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 2 carriers in the downlink and 2 carriers in the uplink.																																																														



Transmission (H, M, L) channel numbers and frequencies in each LTE band																
LTE Band 2																
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860				
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880				
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900				
LTE Band 4																
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720				
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5				
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745				
LTE Band 5																
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		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	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829				
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5				
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844				
LTE Band 7																
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510				
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535				
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560				
LTE Band 12																
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		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	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704				
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5				
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711				
LTE Band 13																
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz				Bandwidth 20 MHz			
	Channel #		Freq. (MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23205		779.5		23230		782		23255		784.5		23280		787	
M	23230		782		23255		784.5		23280		787		23305		789.5	
H	23255		784.5		23280		787		23305		789.5		23330		792	
LTE Band 14																
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz				Bandwidth 20 MHz			
	Channel #		Channel #		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23305		790.5		23330		793		23355		795.5		23380		798	
M	23330		793		23355		795.5		23380		798		23405		800.5	
H	23355		795.5		23380		798		23405		800.5		23430		803	
LTE Band 17																
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz				Bandwidth 20 MHz			
	Channel #		Freq. (MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709		23805		711.5		23830		714	
M	23790		710		23815		713		23840		715.5		23865		718	
H	23825		713.5		23850		716		23875		718.5		23900		721	
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)	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 30												
	Bandwidth 5 MHz					Bandwidth 10 MHz						
	Channel #		Freq.(MHz)			Channel #			Freq.(MHz)			
L	27685		2307.5			27710			2310			
M	27710		2310									
H	27735		2312.5									

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

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



4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 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 n2: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz 5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz 5G NR n12: 5MHz, 10MHz, 15MHz 5G NR n14: 5MHz, 10MHz 5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz 5G NR n26: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n30: 5MHz, 10MHz 5G NR n41: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 100MHz 5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz 5G NR n70: 5MHz, 10MHz, 15MHz 5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n77: 10MHz, 15MHz, 20MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz 5G NR n78: 10MHz, 15MHz, 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 n2	LTE B2/5/7/12/13/14/30/66/71
LTE Anchor Bands for n5	LTE B2/7/30/66
LTE Anchor Bands for n12	LTE B2/66
LTE Anchor Bands for n25	LTE B12/48/66
LTE Anchor Bands for n30	LTE B2/5/12/14/66
LTE Anchor Bands for n41	LTE B2/12/25/26/66/71
LTE Anchor Bands for n66	LTE B2/5/7/12/13/14/25/30/71
LTE Anchor Bands for n71	LTE B2/7/66
LTE Anchor Bands for n77	LTE B2/5/7/12/13/14/30/66
LTE Anchor Bands for n78	LTE B2/5/7/12/13/66

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band													
NR Band 2													
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	
M	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895	
NR Band 5													
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz				
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	165300	826.5	165800	829	166300	831.5	166800	834					
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5	167300	836.5			
H	169300	846.5	168800	844	168300	841.5	167800	839					
NR Band 12													
	Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz				
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	



L	140300	701.5	140800	704	141300	706.5								
M	141500	707.5	141500	707.5	141500	707.5								
H	142700	713.5	142200	711	141700	708.5								
NR Band 14														
Bandwidth 5MHz			Bandwidth 10MHz											
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)										
L	158100	790.5	158600	793										
M	158600	793												
H	159100	795.5												
NR Band 25														
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	374000	1870
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379000	1895
NR Band 26														
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz								
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)						
L	163300	816.5	163800	819	164300	821.5	164800	824						
M	166300	831.5	166300	831.5	166300	831.5	166300	831.5						
H	169300	846.5	168800	844	168300	841.5	167800	839						
NR Band 30														
Bandwidth 5MHz			Bandwidth 10MHz											
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)							
L	461500	2307.5												
M	462000	2310				462000	2310							
H	462500	2312.5												
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 70														
Bandwidth 5MHz		Bandwidth 10MHz			Bandwidth 15MHz									
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)						
L	339500	1697.5	340000	1700	340500	1702.5								
M	340500	1702.5	340500	1702.5										
H	341500	1707.5	341000	1705										
NR Band 71														
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz								
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)						
L	133100	665.5	133600	668	134100	670.5	134600	673						
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5						
H	139100	695.5	138600	693	138100	690.5	137600	688						



NR Band 41																				
Bandwidth10MHz		Bandwidth15MHz		Bandwidth20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth70MHz		Bandwidth 80MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204	2536.02	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528000	2640

NR Band 77																		
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	648000	3720	648334	3725.01	648668	3730.02	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	665000	3975	664834	3972.51	664668	3970.02	664000	3960	663668	3955.02	663334	3950.01	662668	3940.02	662334	3935.01	662000	3930

NR Band 78																						
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		648000
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652834	3792.51	652668	3790.02	652334	3785.01	652000	3780	651668	3775.02	651334	3770.01	651000	3765	650668	3760.02	650334	3755.01		652000

For <3450 MHz ~ 3550 MHz >

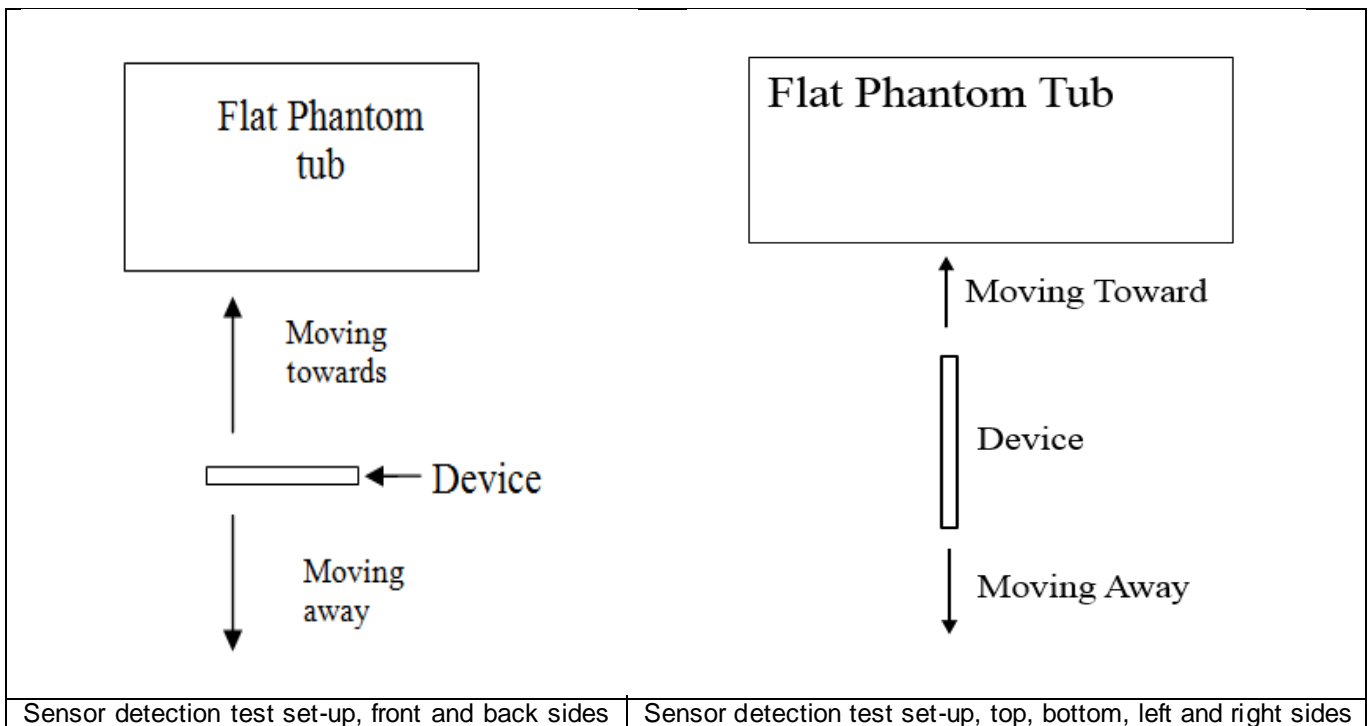
NR Band 77																		
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	630334	3455.01	630500	3457.5	630668	3460.02	631334	3470.01	631668	3475.02	632000	3480	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	636334	3545.01	636168	3542.52	636000	3540	635334	3530.01	635000	3525	634668	3520.01	634000	3510	633668	3505.02		

NR Band 78																						
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	630334	3455.01	630500	3457.5	630668	3460.02	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	633334	3500.01	633334	3500.01
H	636334	3545.01	636168	3542.52	636000	3540	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

5. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (5850MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device.
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:





<P-Sensor>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving tow ards	Moving aw ay	Moving tow ards	Moving aw ay
Minimum	15	17	22	33

<Handheld for ANT0>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Bottom Side		Right Side	
	Moving tow ards	Moving aw ay	Moving tow ards	Moving aw ay	Moving tow ards	Moving aw ay	Moving tow ards	Moving aw ay
Minimum	8	10	15	22	15	20	5	8

<Handheld for ANT1>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Top Side		Left Side	
	Moving tow ards	Moving aw ay	Moving tow ards	Moving aw ay	Moving tow ards	Moving aw ay	Moving tow ards	Moving aw ay
Minimum	9	11	16	22	10	18	7	10

<Handheld for ANT2>

Proximity Sensor Triggering Distance (mm)				
Position	Back		Top Side	
	Moving tow ards	Moving aw ay	Moving tow ards	Moving aw ay
Minimum	7	11	8	11

<Handheld for ANT8>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving tow ards	Moving aw ay	Moving tow ards	Moving aw ay	Moving tow ards	Moving aw ay	Moving tow ards	Moving aw ay
Minimum	8	12	15	17	8	10	8	12



6. RF Exposure Limits

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. 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 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.



7. Specific Absorption Rate (SAR)

7.1 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.

7.2 SAR Definition

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

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

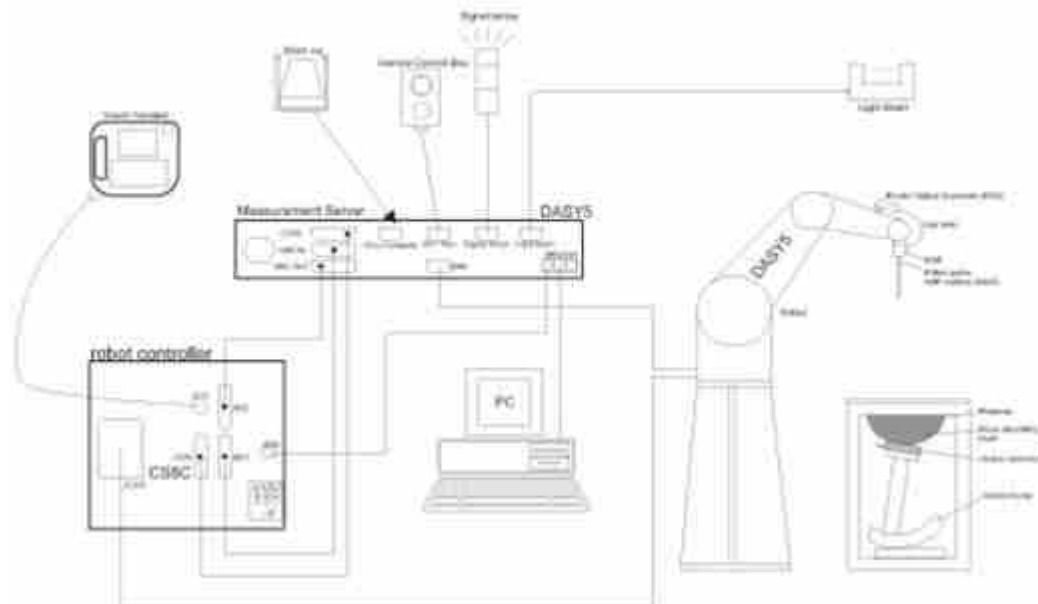
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

8. 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.


8.1 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	

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ±0.2 dB (30 MHz – 4 GHz)	
Directivity	±0.2 dB in TSL (rotation around probe axis) ±0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 µW/g – >100 mW/g; Linearity: ±0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

8.2 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


8.3 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.

8.4 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



9. 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 frequencyband
- (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

9.1 Spatial Peak SAR Evaluation

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

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

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

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



9.2 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.

9.3 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 D01 v01r04 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	$\frac{1}{2} \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: 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 \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

9.4 Zoom Scan

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

Zoom scan parameters extracted from FCC KDB 865664 D01 v01r04 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 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
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 <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

9.5 Volume Scan Procedures

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

9.6 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.



10. 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	2300MHz System Validation Kit	D2300V2	1055	2020/9/15	2023/9/14
SPEAG	2450MHz System Validation Kit	D2450V2	908	2019/3/25	2022/3/23
SPEAG	2600MHz System Validation Kit	D2600V2	1061	2020/11/26	2023/11/25
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	1356	2021/6/1	2022/5/31
SPEAG	Data Acquisition Electronics	DAE4	1303	2021/6/18	2022/6/17
SPEAG	Dosimetric E-Field Probe	ES3DV3	3279	2021/8/24	2022/8/23
SPEAG	Dosimetric E-Field Probe	EX3DV4	7684	2021/10/4	2022/10/3
SPEAG	SAM Tw in Phantom	SAM Tw in	TP-1842	NCR	NCR
SPEAG	SAM Tw in Phantom	SAM Tw in	TP-1697	NCR	NCR
Testo	Thermo-Hygrometer	608-H1	1241332126	2021/1/7	2022/1/6
Testo	Thermo-Hygrometer	608-H1	1241332126	2022/1/6	2023/1/5
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	1138	2021/6/9	2022/6/8
Anritsu	Vector Signal Generator	MG3710A	6201682672	2021/1/7	2022/1/6
Anritsu	Vector Signal Generator	MG3710A	6201682672	2022/1/6	2023/1/5
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
EXA	Spectrum Analyzer	FSV7	101632	2022/1/6	2023/1/5
FLUKE	DIGITAC THERMOMETER	51II	97240029	2021/8/13	2022/8/12
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	
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	

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.

11. System Verification

11.1 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



11.2 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 (ε _r)
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)	Head	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	Head	22.7	0.914	41.772	0.89	41.90	2.70	-0.31	±5	2021/12/24
835	Head	22.6	0.944	41.489	0.90	41.50	4.89	-0.03	±5	2021/12/26
1750	Head	22.8	1.409	40.669	1.37	40.10	2.85	1.42	±5	2021/12/28
1900	Head	22.7	1.424	39.376	1.40	40.00	1.71	-1.56	±5	2021/12/30
2300	Head	22.9	1.714	38.711	1.67	39.50	2.63	-2.00	±5	2022/1/1
2450	Head	22.7	1.805	38.548	1.80	39.20	0.28	-1.66	±5	2022/1/3
2600	Head	22.6	1.923	38.241	1.96	39.00	-1.89	-1.95	±5	2022/1/5
3500	Head	22.6	2.833	39.046	2.91	37.90	-2.65	3.02	±5	2022/1/9
3700	Head	22.9	3.023	38.719	3.12	37.70	-3.11	2.70	±5	2022/1/11
3900	Head	22.6	3.226	38.420	3.32	37.50	-2.83	2.45	±5	2022/1/13
5250	Head	22.8	4.569	35.986	4.71	35.90	-2.99	0.24	±5	2022/1/17
5600	Head	22.8	4.968	35.434	5.07	35.50	-2.01	-0.19	±5	2022/1/19
5750	Head	22.8	5.140	35.236	5.22	35.40	-1.53	-0.46	±5	2022/1/21
750	Head	22.6	0.900	41.203	0.89	41.90	1.12	-1.66	±5	2021/12/23
835	Head	22.8	0.929	40.938	0.90	41.50	3.22	-1.35	±5	2021/12/26
1750	Head	22.8	1.375	39.868	1.37	40.10	0.36	-0.58	±5	2021/12/28
1900	Head	22.6	1.453	39.680	1.40	40.00	3.79	-0.80	±5	2021/12/29
2300	Head	22.7	1.718	38.679	1.67	39.50	2.87	-2.08	±5	2021/12/31
2450	Head	22.9	1.808	38.517	1.80	39.20	0.44	-1.74	±5	2022/1/2
2600	Head	22.8	1.975	40.599	1.96	39.00	0.77	4.10	±5	2022/1/4



11.3 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)	Head	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 (%)
2021/12/24	750	Head	50	1087	3279	1356	0.405	8.36	8.1	-3.11
2021/12/26	835	Head	50	4d258	3279	1356	0.508	9.44	10.16	7.63
2021/12/28	1750	Head	50	1090	3279	1356	1.870	36.40	37.4	2.75
2021/12/30	1900	Head	50	5d170	3279	1356	1.940	39.00	38.8	-0.51
2022/1/1	2300	Head	50	1055	3279	1356	2.330	47.70	46.6	-2.31
2022/1/3	2450	Head	50	908	3279	1356	2.530	52.80	50.6	-4.17
2022/1/5	2600	Head	50	1061	3279	1356	2.650	56.60	53	-6.36
2022/1/9	3500	Head	50	1037	7684	1303	3.200	68.00	64	-5.88
2022/1/11	3700	Head	50	1008	7684	1303	3.110	67.60	62.2	-7.99
2022/1/13	3900	Head	50	1048	7684	1303	3.260	70.20	65.2	-7.12
2022/1/17	5250	Head	50	1113	7684	1303	3.790	80.50	75.8	-5.84
2022/1/19	5600	Head	50	1113	7684	1303	4.070	83.40	81.4	-2.40
2022/1/21	5750	Head	50	1113	7684	1303	3.720	80.00	74.4	-7.00
2021/12/23	750	Head	50	1087	3279	1356	0.430	8.36	8.6	2.87
2021/12/26	835	Head	50	4d258	3279	1356	0.457	9.44	9.14	-3.18
2021/12/28	1750	Head	50	1090	3279	1356	1.710	36.40	34.2	-6.04
2021/12/29	1900	Head	50	5d170	3279	1356	2.010	39.00	40.2	3.08
2021/12/31	2300	Head	50	1055	3279	1356	2.510	47.70	50.2	5.24
2022/1/2	2450	Head	50	908	3279	1356	2.680	52.80	53.6	1.52
2022/1/4	2600	Head	50	1061	3279	1356	2.720	56.60	54.4	-3.89

<10g SAR>

Date	Frequency (MHz)	Head	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 (%)
2021/12/24	750	Head	50	1087	3279	1356	0.267	5.65	5.34	-5.49
2021/12/26	835	Head	50	4d258	3279	1356	0.322	6.13	6.44	5.06
2021/12/28	1750	Head	50	1090	3279	1356	0.993	19.20	19.86	3.44
2021/12/30	1900	Head	50	5d170	3279	1356	1.010	20.30	20.2	-0.49
2022/1/1	2300	Head	50	1055	3279	1356	1.120	22.90	22.4	-2.18
2022/1/3	2450	Head	50	908	3279	1356	1.190	24.20	23.8	-1.65
2022/1/5	2600	Head	50	1061	3279	1356	1.190	25.10	23.8	-5.18
2022/1/9	3500	Head	50	1037	7684	1303	1.190	25.40	23.8	-6.30
2022/1/11	3700	Head	50	1008	7684	1303	1.130	24.40	22.6	-7.38
2022/1/13	3900	Head	50	1048	7684	1303	1.160	24.40	23.2	-4.92
2022/1/17	5250	Head	50	1113	7684	1303	1.120	23.10	22.4	-3.03
2022/1/19	5600	Head	50	1113	7684	1303	1.150	23.80	23	-3.36
2022/1/21	5750	Head	50	1113	7684	1303	1.130	22.80	22.6	-0.88
2021/12/23	750	Head	50	1087	3279	1356	0.304	5.65	6.08	7.61
2021/12/26	835	Head	50	4d258	3279	1356	0.307	6.13	6.14	0.16
2021/12/28	1750	Head	50	1090	3279	1356	0.950	19.20	19	-1.04
2021/12/29	1900	Head	50	5d170	3279	1356	1.070	20.30	21.4	5.42
2021/12/31	2300	Head	50	1055	3279	1356	1.180	22.90	23.6	3.06
2022/1/2	2450	Head	50	908	3279	1356	1.210	24.20	24.2	0.00
2022/1/4	2600	Head	50	1061	3279	1356	1.310	25.10	26.2	4.38

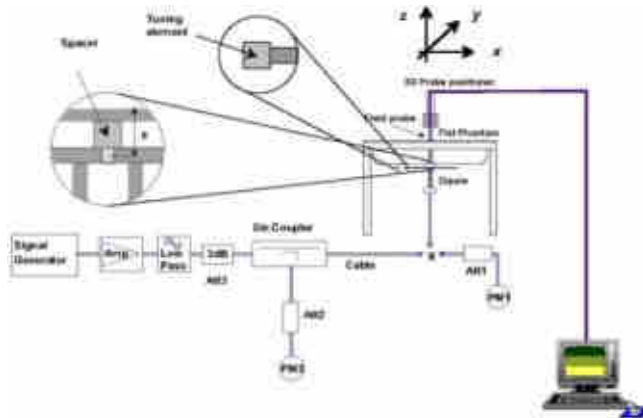


Fig 11.3.1 System Performance Check Setup



Fig 11.3.2 Setup Photo

12. RF Exposure Positions

12.1 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.

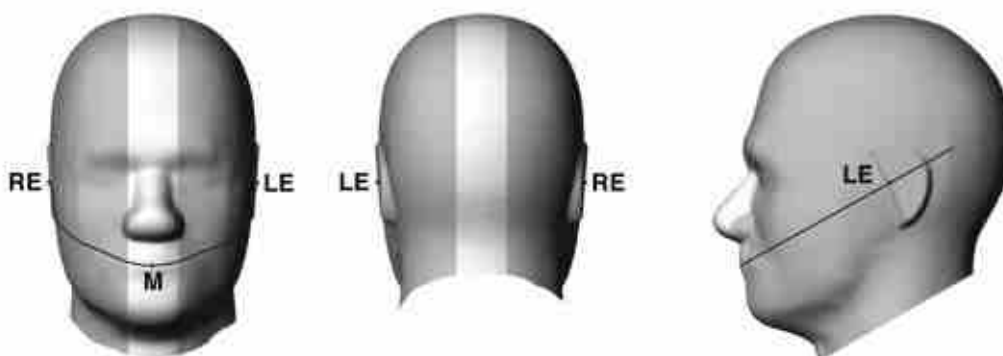


Fig 12.1.1 Front, back, and side views of SAM twin phantom

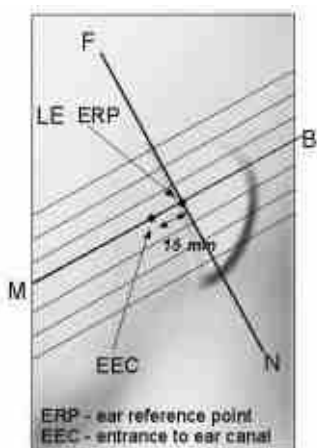


Fig 12.1.2 Close-up side view of phantom showing the ear region.

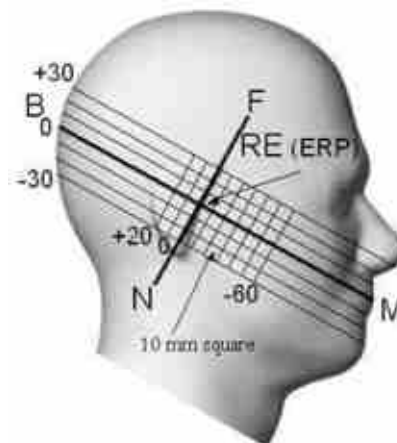


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

12.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 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.

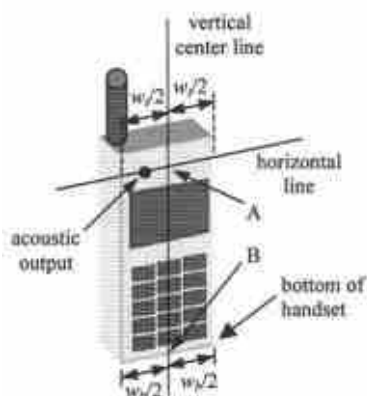


Fig 12.2.1 Handset vertical and horizontal reference lines—“fixed case”

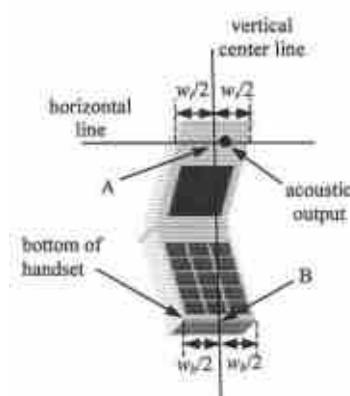


Fig 12.2.2 Handset vertical and horizontal reference lines—“clam-shell case”



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.

12.3 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.

12.4 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 headset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested 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.

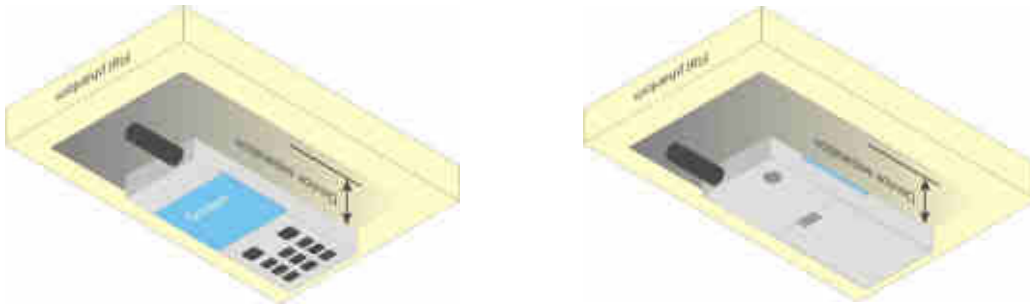


Fig 12.4 Body Worn Position



12.5 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.

12.6 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 from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

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



13. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

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

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
4. 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_o/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

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

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

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

Setup Configuration



HSUPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_{sf} (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	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

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

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

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

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

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

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

Setup Configuration



DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	10
Inter-TTI Distance	TTIs	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{inf})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc	SML's	3200
Coding Rate		1/3
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.

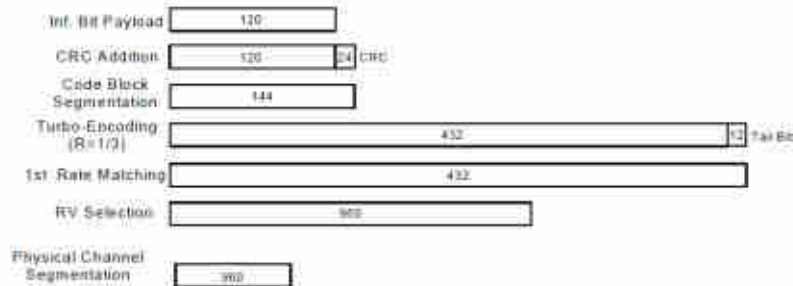


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration



HSPA+ 3GPP release 7 (uplink category 7) 16QAM, 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 = 5.2E:HSPA+:UL with 16QAM
 - 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, C11.1.4, quoted from the TS 34.121-1 s5.2E
 - iii. Set Channel Params
 - iv. Set Cell Power = -86 dBm
 - v. Set Channel Type = HSPA
 - vi. Set UE Target Power =21 dBm
 - vii. Power Ctrl Mode= All Up Bits
 - viii. Set Manual Uplink DPCH Bc/Bd = Manual
 - ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
 - x. Set HSPA Conn DL Channel Levels
 - xi. Set HS-SCCH Configs
 - xii. Set RB TestMode Setup
 - xiii. Set Common HSUPA Parameters
 - xiv. Set Serving Grant
 - xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

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

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.

Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.

Setup Configuration



<WCDMA Conducted Power>

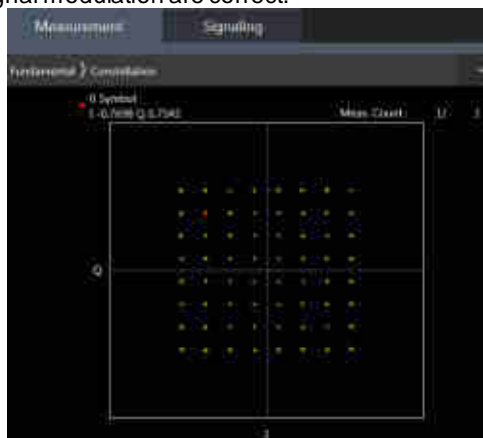
General Note:

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/ HSPA+ is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA/ HSUPA/ DC-HSDPA/ HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA/ HSUPA/ DC-HSDPA/ HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA/ HSUPA/ DC-HSDPA/ HSPA+) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA/ HSUPA/ DC-HSDPA/ HSPA+

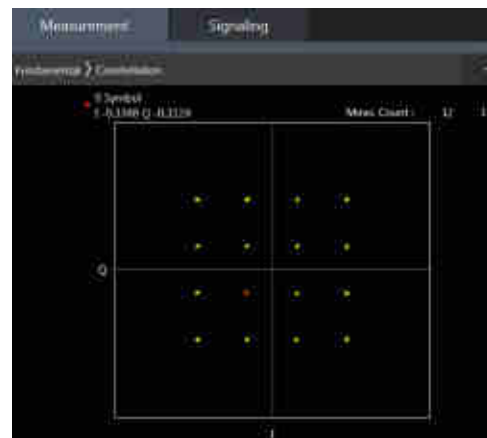
<LTE Conducted Power>

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 $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B2 / B4 / B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is \leq the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
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.

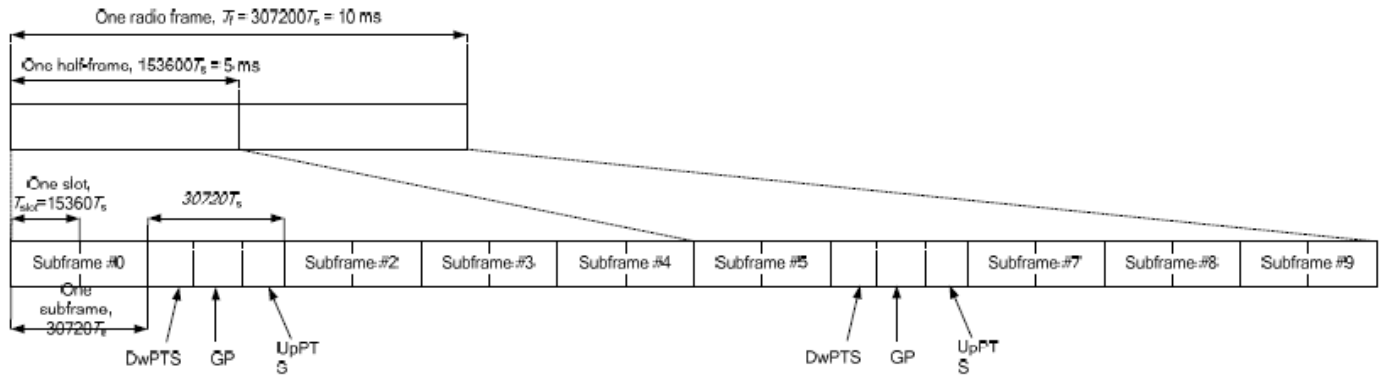


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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 · Ts	2192 · Ts	2560 · Ts	7680 · Ts	2192 · Ts	2560 · Ts
1	19760 · Ts			20480 · Ts		
2	21952 · Ts			23040 · Ts		
3	24144 · Ts			25600 · Ts		
4	26336 · Ts	4384 · Ts	5120 · Ts	7680 · Ts	4384 · Ts	5120 · Ts
5	6592 · Ts			20480 · Ts		
6	19760 · Ts			23040 · Ts		
7	21952 · Ts			12800 · Ts		
8	24144 · Ts			-		-
9	13168 · Ts			-		-



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 41 Power class 2

- i. Uplink-downlink configuration: 1. In a half-frame consisted of 5 subframes, 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 41 Power class 3

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, 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 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. All permutations exist. No restrictions on Pcell & Scell combinations. Only LTE Band 29A is limited to Scell.

2CC Downlink Carrier Aggregation					
Number	Combination	Number	Combination	Number	Combination
1	CA_41C	25	CA_5A-30A	49	CA_2C
2	CA_2A-2A	26	CA_5A-48A	50	CA_5B
3	CA_2A-4A	27	CA_5A-66A	51	CA_5-41A
4	CA_2A-5A	28	CA_7A-7A	52	CA_7B
5	CA_2A-7A	29	CA_7A-12A	53	CA_7C
6	CA_2A-12A	30	CA_7A-13A	54	CA_12B
7	CA_2A-13A	31	CA_7A-66A	55	CA_41C
8	CA_2A-14A	32	CA_12A-30A	56	CA_48C
9	CA_2A-29A	33	CA_12A-66A	57	CA_66B
10	CA_2A-30A	34	CA_13A-48A	58	CA_66C
11	CA_2A-48A	35	CA_13A-66A		
12	CA_2A-66A	36	CA_14A-30A		
13	CA_2A-71A	37	CA_14A-66A		
14	CA_4A-4A	38	CA_25A-25A		
15	CA_4A-5A	39	CA_25A-26A		
16	CA_4A-7A	40	CA_25A-41A		
17	CA_4A-12A	41	CA_26A-41A		
18	CA_4A-13A	42	CA_29A-30A		
19	CA_4A-17A	43	CA_29A-66A		
20	CA_4A-29A	44	CA_30A-66A		
21	CA_4A-48A	45	CA_41A-41A		
22	CA_4A-71A	46	CA_48A-66A		
23	CA_5A-5A	47	CA_66A-66A		
24	CA_5A-7A	48	CA_66A-71A		



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 two 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.

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

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Bands 2/4/25/30/41/48/66 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 2/4/25/30/41/48/66



LTE Carrier Aggregation Conducted Power (Uplink)

2CC Uplink Carrier Aggregation		
Number	Combination	Ant No.
1	CA_41C	ANT0
2	CA_48B	ANT2
3	CA_48C	ANT2
4	CA_66B	ANT0
5	CA_66C	ANT0
6	CA_5B	ANT0

<Intra-band>

General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B41/48/66/5 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. The device supports uplink carrier aggregation with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 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. 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.
- v. LTE CA_66B, CA_48B test was covered by CA_66C, CA_48C; therefore, SAR was only assessed for CA_66C, CA_48C.



<Inter-band uplink carrier aggregation consideration>

2CC Uplink Carrier Aggregation			
Combination	ANT0	ANT1	ANT2
CA_2A-4A	B2	B4	
CA_2A-5A	B2	B5	
CA_2A-12A	B2	B12	
CA_2A-13A	B2	B13	
CA_2A-14A	B2	B14	
CA_2A-48A	B2		B48
CA_2A-66A	B2	B66	
CA_4A-5A	B4	B5	
CA_4A-12A	B4	B12	
CA_4A-13A	B4	B13	
CA_5A-30A	B30	B5	
CA_5A-48A	B5		B48
CA_5A-66A	B66	B5	
CA_7A-66A	B66	B7	
CA_12A-30A	B30	B12	
CA_12A-66A	B66	B12	
CA_13A-48A	B13		B48
CA_13A-66A	B66	B13	
CA_14A-30A	B30	B14	
CA_14A-66A	B66	B14	
CA_48A-66A	B66		B48

General Note:

- For Inter-band CA co-located SAR analysis is performed using standalone SAR summed together and they are more conservatively for inter band CA.

**5G NR Output Power (Unit: dBm)****General Note:**

1. 5G NR n2 / n5 / n12 / n25 / n30 / n66 / n71 / n41 / n77 / n78 is NSA mode.
2. 5G NR n2 / n5 / n12 / n14 / n25 / n26 / n66 / n70 / n71 / n41 / n77 / n78 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 2 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 class 2 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. 5G NR n41/n77/n78 HPUE with higher power, n41/n77/n78 HPUE SAR can represent power class 3 level SAR.
5. 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.
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. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
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	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM		≤ 2.5	
CP-OFDM	256 QAM		≤ 4.5	
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	

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

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

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

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

Inter Band EN-DC Configuration

ENDC	4G UL	5G-NR UL	EN-DC	4G UL	5G-NR UL	EN-DC	4G UL	5G-NR UL	EN-DC	4G UL	5G-NR UL
DC_2A_n2A	ANT0	ANT1	DC_7A_n2A	ANT0	ANT1	DC_13A_n77A	ANT0	ANT2	DC_66A_n5A	ANT0	ANT1
DC_2A_n5A	ANT0	ANT1	DC_7A_n5A	ANT0	ANT1	DC_13A_n78A	ANT0	ANT2	DC_66A_n12A	ANT0	ANT1
DC_2A_n12A	ANT0	ANT1	DC_7A_n66A	ANT0	ANT1	DC_14A_n2A	ANT1	ANT0	DC_66A_n25A	ANT0	ANT1
DC_2A_n30A	ANT0	ANT1	DC_7A_n71A	ANT0	ANT1	DC_14A_n30A	ANT1	ANT0	DC_66A_n30A	ANT0	ANT1
DC_2A_n41A	ANT0	ANT1	DC_7A_n77A	ANT0	ANT2	DC_14A_n66A	ANT1	ANT0	DC_66A_n41A	ANT0	ANT1
DC_2A_n66A	ANT0	ANT1	DC_7A_n78A	ANT0	ANT2	DC_14A_n77A	ANT0	ANT2	DC_66A_n71A	ANT0	ANT1
DC_2A_n71A	ANT0	ANT1	DC_12A_n2A	ANT1	ANT0	DC_25A_n41A	ANT0	ANT1	DC_66A_n77A	ANT0	ANT2
DC_2A_n77A	ANT0	ANT2	DC_12A_n25A	ANT1	ANT0	DC_25A_n66A	ANT0	ANT1	DC_66A_n78A	ANT0	ANT2
DC_2A_n78A	ANT0	ANT2	DC_12A_n30A	ANT1	ANT0	DC_26A_n41A	ANT1	ANT0	DC_71A_n2A	ANT1	ANT0
DC_5A_n2A	ANT1	ANT0	DC_12A_n41A	ANT1	ANT0	DC_30A_n2A	ANT0	ANT1	DC_71A_n41A	ANT1	ANT0
DC_5A_n30A	ANT1	ANT0	DC_12A_n66A	ANT1	ANT0	DC_30A_n5A	ANT0	ANT1	DC_71A_n66A	ANT1	ANT0
DC_5A_n66A	ANT1	ANT0	DC_12A_n77A	ANT0	ANT2	DC_30A_n66A	ANT0	ANT1			
DC_5A_n77A	ANT0	ANT2	DC_12A_n78A	ANT0	ANT2	DC_30A_n77A	ANT0	ANT2			
DC_5A_n78A	ANT0	ANT2	DC_13A_n2A	ANT1	ANT0	DC_48A_n25A	ANT2	ANT0			
			DC_13A_n66A	ANT1	ANT0	DC_66A_n2A	ANT0	ANT1			

Note: 1. For EN-DC component, LTE band 7/12/14/71 for ANT 1 is limited to EN-DC active and they will act as anchor mode. When EN-DC is not active, LTE band 7/12/14/71 will not transmit.



<WLAN Conducted Power>

General Note:

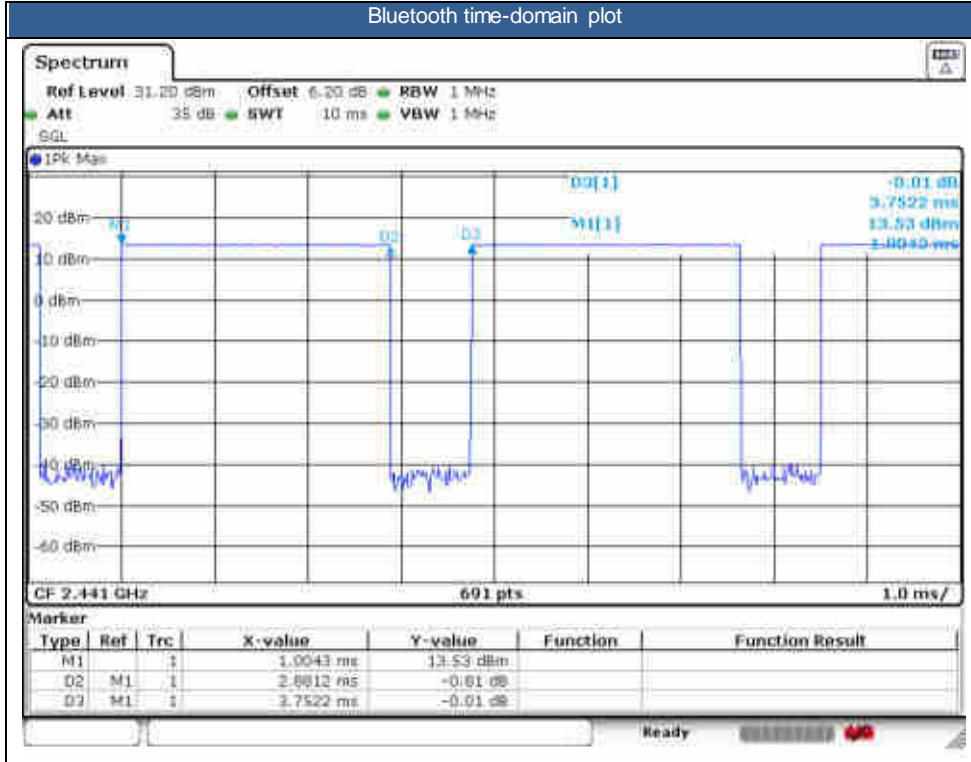
1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. 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.



<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 % 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 to 100% for Bluetooth reported SAR calculation





14. Antenna Location

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



15. 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 ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements Proximity sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table. Full power table and reduced power table (DSI 2: receiver on reduced power for head; DSI 3: P-sensor on for Body Worn; DSI 7: hotspot on; DSI 6: P-sensor on for handheld; DSI 4: receiver off/P-sensor off).
5. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and Handheld.
6. There are three samples. The difference between them could be referred to the XT2213-1, XT2213DL, XT2213-2, XT2213-3_Operational Description of Product Equality Declaration which is exhibited separately. According to the difference, we choose sample 1 for full testing and sample 2 for worst case verification. For sample 3, the differences do not affect the test, so sample 3 is not tested.
7. 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.
8. LTE band 41 supports HPUE, we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
9. 5G NR n41/n77/n78 HPUE with higher power, n41/n77/n78 HPUE SAR can represent power class 3 level SAR.
10. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
11. 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.
12. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
13. 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.
14. 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.



15. This device supports 5G NR FR1 bands, including NSA mode and SA mode. NSA and SA mode performed SAR separately.
16. 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 IV/V/V, LTE Band 2/4/5/7/13/14/25/26/30/66/38/41/48, 5G NR n2/n25/n30/n66/n41/n70/n77/n78, WLAN 2.4 GHz /5.2GHz/5.8GHz, therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz 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.
17. For distance SAR and non-distance SAR, always chose higher SAR to do co-located analysis.

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.
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 \leq 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/HSPA+ is \leq 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/HSPA+ to RMC12.2Kbps and the adjusted SAR is \leq 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA/HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA/HSPA+) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA/HSPA+.

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 \leq 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 \leq 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 \leq 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B17 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B2 / B4 / B5 / B17 / B38 SAR test was covered by LTE B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is \leq the larger band to qualify for the SAR test exclusion



- b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - d. $\pi/2$ BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, $\pi/2$ BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - e. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - f. For 5G FR1 n5/n14/n12/n26/n41 /n71/n77/n78 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 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 closest/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.



15.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq (MHz)	Sample	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 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	133322	683	1	23.01	24.00	1.256	0.11	0.233	0.293
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	133322	683	1	21.96	23.00	1.271	-0.02	0.202	0.257
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	133322	683	1	23.01	24.00	1.256	0.1	0.112	0.141
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	133322	683	1	21.96	23.00	1.271	0.17	0.098	0.125
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	133322	683	1	23.01	24.00	1.256	-0.09	0.232	0.291
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	133322	683	1	21.96	23.00	1.271	0.1	0.194	0.246
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	133322	683	1	23.01	24.00	1.256	-0.04	0.102	0.128
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	133322	683	1	21.96	23.00	1.271	0.11	0.091	0.116
EN-DC																				
01	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	Full Power	133322	683	1	22.87	24.00	1.297	0.14	0.370	0.480
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	Full Power	133322	683	1	21.93	23.00	1.279	-0.15	0.241	0.308
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	Full Power	133322	683	1	22.87	24.00	1.297	-0.06	0.325	0.422
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	Full Power	133322	683	1	21.93	23.00	1.279	0.11	0.209	0.267
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	Full Power	133322	683	1	22.87	24.00	1.297	-0.07	0.240	0.311
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	Full Power	133322	683	1	21.93	23.00	1.279	0.05	0.152	0.194
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	Full Power	133322	683	1	22.87	24.00	1.297	0.15	0.221	0.287
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	Full Power	133322	683	1	21.93	23.00	1.279	-0.13	0.143	0.183
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	23095	707.5	1	22.84	24.00	1.306	0.18	0.334	0.436
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	23095	707.5	1	21.86	23.00	1.300	0.04	0.260	0.338
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	23095	707.5	1	22.84	24.00	1.306	0.02	0.172	0.225
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	23095	707.5	1	21.86	23.00	1.300	0.11	0.139	0.181
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	23095	707.5	1	22.84	24.00	1.306	0.09	0.349	0.456
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	23095	707.5	1	21.86	23.00	1.300	0.01	0.279	0.363
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	23095	707.5	1	22.84	24.00	1.306	0.1	0.192	0.251
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	23095	707.5	1	21.86	23.00	1.300	0.01	0.139	0.181
EN-DC																				
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	23095	707.5	1	22.43	23.50	1.279	0.08	0.439	0.562
02	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	23095	707.5	1	22.03	23.00	1.250	0.01	0.467	0.584
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	23095	707.5	1	22.43	23.50	1.279	-0.11	0.360	0.461
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	23095	707.5	1	22.03	23.00	1.250	-0.13	0.405	0.506
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	Reduced	23095	707.5	1	22.43	23.50	1.279	0.07	0.268	0.343
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	Reduced	23095	707.5	1	22.03	23.00	1.250	-0.07	0.316	0.395
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	23095	707.5	1	22.43	23.50	1.279	0.17	0.248	0.317
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	23095	707.5	1	22.03	23.00	1.250	0.04	0.282	0.353
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	23230	782	1	22.84	24.00	1.306	-0.09	0.394	0.515
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	23230	782	1	21.88	23.00	1.294	0.13	0.313	0.405
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	23230	782	1	22.84	24.00	1.306	-0.02	0.248	0.324
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	23230	782	1	21.88	23.00	1.294	-0.11	0.198	0.256
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	23230	782	1	22.84	24.00	1.306	0.07	0.354	0.462
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	23230	782	1	21.88	23.00	1.294	0.17	0.298	0.386
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	23230	782	1	22.84	24.00	1.306	-0.13	0.220	0.287
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	23230	782	1	21.88	23.00	1.294	0.05	0.187	0.242
03	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	Full Power	23230	782	1	23.07	24.00	1.239	0.04	0.623	0.772
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	Full Power	23230	782	1	22.12	23.00	1.225	-0.14	0.444	0.544
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	Full Power	23230	782	1	23.07	24.00	1.239	0.11	0.545	0.675
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	Full Power	23230	782	1	22.12	23.00	1.225	-0.14	0.386	0.473
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	Full Power	23230	782	1	23.07	24.00	1.239	-0.04	0.431	0.534
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	Full Power	23230	782	1	22.12	23.00	1.225	-0.01	0.308	0.377
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	Full Power	23230	782	1	23.07	24.00	1.239	-0.09	0.419	0.519
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	Full Power	23230	782	1	22.12	23.00	1.225	-0.09	0.299	0.366
EN-DC																				



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	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant1	DSI 2	Reduced	23230	782	1	22.47	22.50	1.007	-0.06	0.535	0.539
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant1	DSI 2	Reduced	23230	782	1	22.27	22.50	1.054	-0.08	0.381	0.402
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant1	DSI 2	Reduced	23230	782	1	22.47	22.50	1.007	-0.1	0.468	0.471
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant1	DSI 2	Reduced	23230	782	1	22.27	22.50	1.054	0.1	0.332	0.350
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant1	DSI 2	Reduced	23230	782	1	22.47	22.50	1.007	-0.08	0.370	0.373
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant1	DSI 2	Reduced	23230	782	1	22.27	22.50	1.054	-0.17	0.265	0.279
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant1	DSI 2	Reduced	23230	782	1	22.47	22.50	1.007	-0.16	0.360	0.362
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant1	DSI 2	Reduced	23230	782	1	22.27	22.50	1.054	-0.02	0.257	0.271
EN-DC																				
04	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant1	DSI 2	Reduced	23330	793	1	20.02	21.00	1.253	-0.09	0.466	0.584
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant1	DSI 2	Reduced	23330	793	1	19.94	21.00	1.276	0.18	0.367	0.468
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant1	DSI 2	Reduced	23330	793	1	20.02	21.00	1.253	-0.02	0.410	0.514
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant1	DSI 2	Reduced	23330	793	1	19.94	21.00	1.276	0.17	0.303	0.387
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant1	DSI 2	Reduced	23330	793	1	20.02	21.00	1.253	-0.11	0.341	0.427
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant1	DSI 2	Reduced	23330	793	1	19.94	21.00	1.276	0.07	0.253	0.323
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant1	DSI 2	Reduced	23330	793	1	20.02	21.00	1.253	-0.06	0.311	0.390
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant1	DSI 2	Reduced	23330	793	1	19.94	21.00	1.276	0.02	0.235	0.300
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	136100	680.5	1	23.13	24.00	1.222	0.06	0.144	0.176
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	136100	680.5	1	23.05	24.00	1.245	-0.1	0.163	0.203
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	136100	680.5	1	23.13	24.00	1.222	-0.13	0.070	0.086
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	136100	680.5	1	23.05	24.00	1.245	-0.04	0.077	0.096
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	136100	680.5	1	23.13	24.00	1.222	0.1	0.149	0.182
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	136100	680.5	1	23.05	24.00	1.245	-0.09	0.164	0.204
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	136100	680.5	1	23.13	24.00	1.222	0.1	0.079	0.097
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	136100	680.5	1	23.05	24.00	1.245	0.04	0.080	0.100
EN-DC																				
05	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant1	DSI 2	Full Power	136100	680.5	1	22.95	24.00	1.274	0.08	0.327	0.416
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant1	DSI 2	Full Power	136100	680.5	1	22.91	24.00	1.285	0.03	0.304	0.391
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant1	DSI 2	Full Power	136100	680.5	1	22.95	24.00	1.274	-0.08	0.293	0.373
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant1	DSI 2	Full Power	136100	680.5	1	22.91	24.00	1.285	-0.03	0.270	0.347
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant1	DSI 2	Full Power	136100	680.5	1	22.95	24.00	1.274	-0.06	0.210	0.267
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant1	DSI 2	Full Power	136100	680.5	1	22.91	24.00	1.285	-0.03	0.196	0.252
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant1	DSI 2	Full Power	136100	680.5	1	22.95	24.00	1.274	-0.02	0.197	0.251
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant1	DSI 2	Full Power	136100	680.5	1	22.91	24.00	1.285	0.08	0.190	0.244
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	141500	707.5	1	23.15	24.00	1.216	-0.01	0.183	0.223
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	141500	707.5	1	23.13	24.00	1.222	0.14	0.176	0.215
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	141500	707.5	1	23.15	24.00	1.216	-0.18	0.089	0.108
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	141500	707.5	1	23.13	24.00	1.222	-0.18	0.093	0.114
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	141500	707.5	1	23.15	24.00	1.216	0.05	0.182	0.221
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	141500	707.5	1	23.13	24.00	1.222	0.06	0.174	0.213
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	141500	707.5	1	23.15	24.00	1.216	-0.02	0.093	0.113
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	141500	707.5	1	23.13	24.00	1.222	0.11	0.092	0.112
EN-DC																				
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant1	DSI 2	Full Power	141500	707.5	1	23.02	24.00	1.253	-0.06	0.360	0.451
06	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant1	DSI 2	Full Power	141500	707.5	1	22.98	24.00	1.265	-0.03	0.426	0.539
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant1	DSI 2	Full Power	141500	707.5	1	23.02	24.00	1.253	0.1	0.313	0.392
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant1	DSI 2	Full Power	141500	707.5	1	22.98	24.00	1.265	0.16	0.366	0.463
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant1	DSI 2	Full Power	141500	707.5	1	23.02	24.00	1.253	-0.16	0.213	0.267



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	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant1	DSI 2	Full Power	141500	707.5	1	22.98	24.00	1.265	-0.07	0.260	0.329
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant1	DSI 2	Full Power	141500	707.5	1	23.02	24.00	1.253	0.03	0.206	0.258
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant1	DSI 2	Full Power	141500	707.5	1	22.98	24.00	1.265	0.09	0.247	0.312
07	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	158600	793	1	22.94	24.00	1.276	-0.07	0.241	0.308
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	158600	793	1	22.92	24.00	1.282	0.15	0.192	0.246
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	158600	793	1	22.94	24.00	1.276	0.18	0.150	0.191
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	158600	793	1	22.92	24.00	1.282	-0.04	0.123	0.158
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	158600	793	1	22.94	24.00	1.276	-0.03	0.233	0.297
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	158600	793	1	22.92	24.00	1.282	-0.15	0.187	0.240
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	158600	793	1	22.94	24.00	1.276	-0.03	0.141	0.180
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	158600	793	1	22.92	24.00	1.282	-0.16	0.118	0.151

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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																				
08	GSM850	-	-	-	-	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 0	DSI 2	Full Power	189	836.4	1	29.79	31.00	1.321	-0.04	0.420	0.555
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 0	DSI 2	Full Power	189	836.4	1	29.79	31.00	1.321	0.03	0.172	0.227
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Left Cheek	0mm	Ant 0	DSI 2	Full Power	189	836.4	1	29.79	31.00	1.321	-0.06	0.312	0.412
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Left Tilted	0mm	Ant 0	DSI 2	Full Power	189	836.4	1	29.79	31.00	1.321	0.03	0.162	0.214
09	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	Full Power	4182	836.4	1	23.24	24.00	1.191	-0.03	0.477	0.568
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	Full Power	4182	836.4	1	23.24	24.00	1.191	-0.06	0.226	0.269
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	Full Power	4182	836.4	1	23.24	24.00	1.191	-0.13	0.427	0.509
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	Full Power	4182	836.4	1	23.24	24.00	1.191	-0.05	0.220	0.262
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	26865	831.5	1	22.89	24.00	1.291	-0.16	0.353	0.456
	LTE Band 5B	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	20525+ 20597	836.54 843.7	1	22.73	24.00	1.340	-0.16	0.311	0.417
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	26865	831.5	1	21.84	23.00	1.306	-0.11	0.273	0.357
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	26865	831.5	1	22.89	24.00	1.291	0.11	0.180	0.232
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	26865	831.5	1	21.84	23.00	1.306	0.12	0.144	0.188
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	26865	831.5	1	22.89	24.00	1.291	0.15	0.314	0.405
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	26865	831.5	1	21.84	23.00	1.306	-0.08	0.252	0.329
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	26865	831.5	1	22.89	24.00	1.291	-0.02	0.177	0.229
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	26865	831.5	1	21.84	23.00	1.306	0.01	0.135	0.176
10	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	26865	831.5	1	21.36	22.50	1.300	0.01	0.867	1.127
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	26865	831.5	1	20.33	21.50	1.309	0.02	0.664	0.869
	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	26865	831.5	1	20.13	21.50	1.371	0.03	0.636	0.872
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	26865	831.5	1	21.36	22.50	1.300	0.01	0.717	0.932
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	26865	831.5	1	20.33	21.50	1.309	-0.05	0.542	0.710
	LTE Band 26	15M	QPSK	75	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	26865	831.5	1	20.13	21.50	1.371	-0.02	0.529	0.725
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	Reduced	26865	831.5	1	21.36	22.50	1.300	0.07	0.611	0.794
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	DSI 2	Reduced	26865	831.5	1	20.33	21.50	1.309	-0.09	0.463	0.606
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	26865	831.5	1	21.36	22.50	1.300	0.04	0.581	0.755
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	26865	831.5	1	20.33	21.50	1.309	0.06	0.439	0.575
EN-DC																				
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant1	DSI 2	Reduced	26865	831.5	1	18.28	19.00	1.180	-0.12	0.456	0.538
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant1	DSI 2	Reduced	26865	831.5	1	17.23	18.00	1.194	0.1	0.349	0.417
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant1	DSI 2	Reduced	26865	831.5	1	18.28	19.00	1.180	-0.04	0.377	0.445
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant1	DSI 2	Reduced	26865	831.5	1	17.23	18.00	1.194	0.03	0.285	0.340
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant1	DSI 2	Reduced	26865	831.5	1	18.28	19.00	1.180	0.18	0.324	0.382
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant1	DSI 2	Reduced	26865	831.5	1	17.23	18.00	1.194	0.01	0.243	0.290
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant1	DSI 2	Reduced	26865	831.5	1	18.28	19.00	1.180	0.04	0.306	0.361
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant1	DSI 2	Reduced	26865	831.5	1	17.23	18.00	1.194	-0.15	0.231	0.276
11	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	166300	831.5	1	23.08	24.00	1.236	0.16	0.218	0.269
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	166300	831.5	1	23.07	24.00	1.239	0.17	0.197	0.244
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	166300	831.5	1	23.08	24.00	1.236	-0.18	0.133	0.164
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	166300	831.5	1	23.07	24.00	1.239	0.18	0.110	0.136



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	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	166300	831.5	1	23.08	24.00	1.236	-0.17	0.207	0.256	
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	166300	831.5	1	23.07	24.00	1.239	0.04	0.198	0.245	
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	166300	831.5	1	23.08	24.00	1.236	0.12	0.120	0.148	
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	166300	831.5	1	23.07	24.00	1.239	0.04	0.106	0.131	
EN-DC																					
	FR1 n5	25M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Reduced	167300	836.5	1	20.49	21.50	1.262	-0.08	0.394	0.497	
12	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Reduced	167300	836.5	1	20.51	21.50	1.256	-0.03	0.425	0.534	
	FR1 n5	25M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Reduced	167300	836.5	1	20.49	21.50	1.262	0.09	0.343	0.433	
	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Reduced	167300	836.5	1	20.51	21.50	1.256	-0.17	0.362	0.455	
	FR1 n5	25M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Reduced	167300	836.5	1	20.49	21.50	1.262	0.05	0.266	0.336	
	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Reduced	167300	836.5	1	20.51	21.50	1.256	0.09	0.302	0.379	
	FR1 n5	25M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Reduced	167300	836.5	1	20.49	21.50	1.262	-0.08	0.258	0.326	
	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Reduced	167300	836.5	1	20.51	21.50	1.256	-0.07	0.287	0.360	
1750MHz																					
13	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	Full Power	1413	1732.6	1	23.14	24.00	1.219	-0.06	0.139	0.169	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	Full Power	1413	1732.6	1	23.14	24.00	1.219	0.02	0.076	0.093	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	Full Power	1413	1732.6	1	23.14	24.00	1.219	0.04	0.103	0.126	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	Full Power	1413	1732.6	1	23.14	24.00	1.219	-0.06	0.066	0.080	
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	132322	1745	1	22.77	24.00	1.327	-0.02	0.288	0.382	
	LTE_CA_66C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	132322+132520	1745+1764.8	1	22.61	24.00	1.377	0.08	0.231	0.318	
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	132322	1745	1	21.88	23.00	1.294	0.11	0.222	0.287	
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	132322	1745	1	22.77	24.00	1.327	0.1	0.200	0.265	
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	132322	1745	1	21.88	23.00	1.294	-0.17	0.155	0.201	
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	132322	1745	1	22.77	24.00	1.327	0.01	0.235	0.312	
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	132322	1745	1	21.88	23.00	1.294	-0.13	0.179	0.232	
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	132322	1745	1	22.77	24.00	1.327	-0.12	0.162	0.215	
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	132322	1745	1	21.88	23.00	1.294	0.11	0.131	0.170	
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	19.05	20.00	1.245	-0.1	0.872	1.085	
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	132072	1720	1	18.91	20.00	1.285	0.03	0.872	1.121	
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	132572	1770	1	18.93	20.00	1.279	0.13	0.845	1.081	
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	18.08	19.00	1.236	0.03	0.775	0.958	
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	132072	1720	1	18.03	19.00	1.250	0.02	0.711	0.889	
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	132572	1770	1	17.95	19.00	1.274	0.02	0.721	0.918	
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	18.13	19.00	1.222	-0.07	0.711	0.869	
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	19.05	20.00	1.245	0.1	0.969	1.206	
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	132072	1720	1	18.91	20.00	1.285	0.02	0.921	1.184	
14	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	132572	1770	1	18.93	20.00	1.279	0.06	0.953	1.219	
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	18.08	19.00	1.236	0.16	0.856	1.058	
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	132072	1720	1	18.03	19.00	1.250	0.03	0.759	0.949	
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	132572	1770	1	17.95	19.00	1.274	-0.09	0.786	1.001	
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	18.13	19.00	1.222	0.02	0.786	0.960	
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	19.05	20.00	1.245	-0.16	0.592	0.737	
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	18.08	19.00	1.236	0.18	0.486	0.601	
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	19.05	20.00	1.245	0.12	0.705	0.877	
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	132072	1720	1	18.91	20.00	1.285	0.03	0.668	0.859	
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	132572	1770	1	18.93	20.00	1.279	0.03	0.668	0.855	
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	18.08	19.00	1.236	0.08	0.598	0.739	
	LTE Band 66	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	18.13	19.00	1.222	0.14	0.555	0.678	
EN-DC																					
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	16.43	17.50	1.279	-0.02	0.447	0.572	
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	15.49	16.50	1.262	-0.17	0.398	0.502	
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	16.43	17.50	1.279	0.07	0.497	0.636	
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	15.49	16.50	1.262	-0.14	0.439	0.554	
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	16.43	17.50	1.279	0.09	0.304	0.389	
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	15.49	16.50	1.262	0.11	0.249	0.314	
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	16.43	17.50	1.279	0.09	0.362	0.463	



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	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	132322	1745	1	15.49	16.50	1.262	0.03	0.306	0.386
15	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	340500	1702.5	1	22.96	24.00	1.271	-0.17	0.157	0.199
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	340500	1702.5	1	23.01	24.00	1.256	0.15	0.130	0.163
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	340500	1702.5	1	22.96	24.00	1.271	-0.12	0.043	0.055
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	340500	1702.5	1	23.01	24.00	1.256	-0.1	0.028	0.035
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	340500	1702.5	1	22.96	24.00	1.271	0.01	0.121	0.154
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	340500	1702.5	1	23.01	24.00	1.256	0.03	0.094	0.118
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	340500	1702.5	1	22.96	24.00	1.271	-0.12	0.060	0.076
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	340500	1702.5	1	23.01	24.00	1.256	-0.13	0.049	0.062
EN-DC																				
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	349000	1745	1	22.54	24.00	1.400	-0.01	0.127	0.178
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	349000	1745	1	22.63	24.00	1.371	0.02	0.152	0.208
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	349000	1745	1	22.54	24.00	1.400	-0.12	0.053	0.074
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	349000	1745	1	22.63	24.00	1.371	-0.12	0.079	0.108
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	349000	1745	1	22.54	24.00	1.400	-0.08	0.087	0.122
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	349000	1745	1	22.63	24.00	1.371	-0.18	0.120	0.165
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	349000	1745	1	22.54	24.00	1.400	0.1	0.060	0.084
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	349000	1745	1	22.63	24.00	1.371	-0.1	0.077	0.106
EN-DC																				
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Reduced	349000	1745	1	15.69	17.50	1.517	0.12	0.258	0.391
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Reduced	349000	1745	1	15.72	17.50	1.507	-0.09	0.328	0.494
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Reduced	349000	1745	1	15.69	17.50	1.517	-0.12	0.286	0.434
16	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Reduced	349000	1745	1	15.72	17.50	1.507	-0.13	0.360	0.542
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Reduced	349000	1745	1	15.69	17.50	1.517	-0.07	0.165	0.250
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Reduced	349000	1745	1	15.72	17.50	1.507	-0.1	0.211	0.318
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Reduced	349000	1745	1	15.69	17.50	1.517	0.01	0.200	0.303
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Reduced	349000	1745	1	15.72	17.50	1.507	0.07	0.256	0.386

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antennas	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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)	Right Cheek	0mm	Ant 0	DSI 2	Full Power	661	1880	1	25.76	27.00	1.330	-0.16	0.185	0.246
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 0	DSI 2	Full Power	661	1880	1	25.76	27.00	1.330	-0.14	0.133	0.177
17	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 0	DSI 2	Full Power	661	1880	1	25.76	27.00	1.330	-0.03	0.193	0.257
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 0	DSI 2	Full Power	661	1880	1	25.76	27.00	1.330	0.02	0.153	0.204
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	Full Power	9400	1880	1	23.05	24.00	1.245	-0.09	0.361	0.449
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	Full Power	9400	1880	1	23.05	24.00	1.245	-0.03	0.303	0.377
18	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	Full Power	9400	1880	1	23.05	24.00	1.245	0.03	0.392	0.488
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	Full Power	9400	1880	1	23.05	24.00	1.245	0.08	0.313	0.390
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	26340	1880	1	22.67	24.00	1.358	0.09	0.330	0.448
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	26340	1880	1	21.69	23.00	1.352	0.12	0.260	0.352
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	26340	1880	1	22.67	24.00	1.358	0.16	0.273	0.371
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	26340	1880	1	21.69	23.00	1.352	0.17	0.222	0.300
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	26340	1880	1	22.67	24.00	1.358	0.12	0.332	0.451
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	26340	1880	1	21.69	23.00	1.352	0.17	0.261	0.353
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	26340	1880	1	22.67	24.00	1.358	-0.1	0.276	0.375
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	26340	1880	1	21.69	23.00	1.352	0.16	0.222	0.300
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	26340	1880	1	18.27	19.50	1.327	-0.15	0.813	1.079
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	26140	1860	1	18.23	19.50	1.340	-0.02	0.786	1.053
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	26590	1905	1	18.19	19.50	1.352	-0.08	0.819	1.107
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	26340	1880	1	17.36	18.50	1.300	-0.02	0.610	0.793
	LTE Band 25	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	Reduced	26340	1880	1	17.32	18.50	1.312	-0.18	0.783	1.027
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	26340	1880	1	18.27	19.50	1.327	0.03	0.889	1.180
19	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	26140	1860	1	18.23	19.50	1.340	0.08	0.919	1.231
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	26590	1905	1	18.19	19.50	1.352	0.01	0.846	1.144
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	26340	1880	1	17.36	18.50	1.300	0.13	0.673	0.875
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	26140	1860	1	17.29	18.50	1.321	0.06	0.598	0.790

Sporton International Inc. (Kunshan)

TEL : 86-512-57900158 / FAX : 86-512-57900958

FCC ID : IHD56AA3

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FCC SAR Test Report

Report No. : FA1D1722

	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	26590	1905	1	17.16	18.50	1.361	-0.11	0.670	0.912
	LTE Band 25	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	Reduced	26340	1880	1	17.32	18.50	1.312	0.08	0.710	0.932
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	Reduced	26340	1880	1	18.27	19.50	1.327	-0.09	0.458	0.608
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	Reduced	26340	1880	1	17.36	18.50	1.300	-0.02	0.335	0.436
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	26340	1880	1	18.27	19.50	1.327	-0.05	0.567	0.753
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	Reduced	26340	1880	1	17.36	18.50	1.300	-0.19	0.418	0.543
EN-DC																				
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	376500	1882.5	1	22.72	24.00	1.343	-0.08	0.128	0.172
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	376500	1882.5	1	22.74	24.00	1.337	-0.15	0.112	0.150
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	376500	1882.5	1	22.72	24.00	1.343	-0.12	0.100	0.134
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	376500	1882.5	1	22.74	24.00	1.337	-0.17	0.087	0.116
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	376500	1882.5	1	22.72	24.00	1.343	-0.16	0.139	0.187
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	376500	1882.5	1	22.74	24.00	1.337	0.15	0.119	0.159
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	376500	1882.5	1	22.72	24.00	1.343	-0.18	0.110	0.148
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	376500	1882.5	1	22.74	24.00	1.337	-0.02	0.103	0.138
EN-DC																				
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Reduced	376500	1882.5	1	16.00	17.00	1.259	0.12	0.392	0.493
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Reduced	376500	1882.5	1	16.14	17.00	1.219	0.06	0.437	0.533
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Reduced	376500	1882.5	1	16.00	17.00	1.259	-0.14	0.444	0.559
20	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Reduced	376500	1882.5	1	16.14	17.00	1.219	0.06	0.488	0.595
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Reduced	376500	1882.5	1	16.00	17.00	1.259	-0.08	0.230	0.290
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Reduced	376500	1882.5	1	16.14	17.00	1.219	-0.01	0.255	0.311
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Reduced	376500	1882.5	1	16.00	17.00	1.259	0.07	0.283	0.356
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Reduced	376500	1882.5	1	16.14	17.00	1.219	-0.04	0.326	0.397
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	27710	2310	1	22.85	24.00	1.303	-0.06	0.136	0.177
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	27710	2310	1	21.68	23.00	1.355	0.18	0.112	0.152
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	27710	2310	1	22.85	24.00	1.303	0.04	0.152	0.198
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	27710	2310	1	21.68	23.00	1.355	-0.1	0.124	0.168
21	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	27710	2310	1	22.85	24.00	1.303	-0.02	0.176	0.229
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	27710	2310	1	21.68	23.00	1.355	-0.09	0.142	0.192
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	27710	2310	1	22.85	24.00	1.303	-0.08	0.125	0.163
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	27710	2310	1	21.68	23.00	1.355	-0.09	0.094	0.127
EN-DC																				
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	462000	2310	1	22.57	24.00	1.390	-0.09	0.128	0.178
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	462000	2310	1	22.45	24.00	1.429	-0.12	0.150	0.214
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	462000	2310	1	22.57	24.00	1.390	0.01	0.125	0.174
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	462000	2310	1	22.45	24.00	1.429	-0.01	0.147	0.210
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	462000	2310	1	22.57	24.00	1.390	-0.18	0.171	0.238
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	462000	2310	1	22.45	24.00	1.429	-0.07	0.195	0.279
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	462000	2310	1	22.57	24.00	1.390	-0.1	0.131	0.182
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	462000	2310	1	22.45	24.00	1.429	-0.09	0.142	0.203
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Reduced	462000	2310	1	14.83	16.00	1.309	-0.11	0.349	0.457
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Reduced	462000	2310	1	14.86	16.00	1.300	0.09	0.357	0.464
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Reduced	462000	2310	1	14.83	16.00	1.309	-0.07	0.430	0.563
22	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Reduced	462000	2310	1	14.86	16.00	1.300	0.01	0.437	0.568
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Reduced	462000	2310	1	14.83	16.00	1.309	-0.03	0.136	0.178
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Reduced	462000	2310	1	14.86	16.00	1.300	0.01	0.137	0.178
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Reduced	462000	2310	1	14.83	16.00	1.309	-0.05	0.182	0.238
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Reduced	462000	2310	1	14.86	16.00	1.300	0.14	0.182	0.237



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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	Full Power	21100	2535	1	22.62	24.00	1.374	-	-	-0.13	0.194	0.267
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	21100	2535	1	21.62	23.00	1.374	-	-	0.09	0.153	0.210
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	21100	2535	1	22.62	24.00	1.374	-	-	-0.09	0.199	0.273
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	21100	2535	1	21.62	23.00	1.374	-	-	-0.01	0.161	0.221
23	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	21100	2535	1	22.62	24.00	1.374	-	-	0.01	0.389	0.535
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	21100	2535	1	21.62	23.00	1.374	-	-	0.14	0.310	0.426
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	21100	2535	1	22.62	24.00	1.374	-	-	0.02	0.188	0.258
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	21100	2535	1	21.62	23.00	1.374	-	-	0.04	0.152	0.209
EN-DC																						
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant1	DSI 2	Reduced	21100	2535	1	15.97	16.50	1.130	-	-	-0.01	0.393	0.444
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant1	DSI 2	Reduced	21100	2535	1	15.91	16.50	1.146	-	-	-0.08	0.288	0.330
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant1	DSI 2	Reduced	21100	2535	1	15.97	16.50	1.130	-	-	0.04	0.456	0.515
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant1	DSI 2	Reduced	21100	2535	1	15.91	16.50	1.146	-	-	-0.02	0.339	0.388
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant1	DSI 2	Reduced	21100	2535	1	15.97	16.50	1.130	-	-	-0.19	0.131	0.148
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant1	DSI 2	Reduced	21100	2535	1	15.91	16.50	1.146	-	-	-0.18	0.097	0.111
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant1	DSI 2	Reduced	21100	2535	1	15.97	16.50	1.130	-	-	0.01	0.172	0.194
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant1	DSI 2	Reduced	21100	2535	1	15.91	16.50	1.146	-	-	-0.05	0.128	0.147
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	-0.12	0.086	0.116
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	Full Power	40620	2593	1	21.76	23.00	1.330	62.9	1.006	0.11	0.065	0.087
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	0.09	0.091	0.122
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	Full Power	40620	2593	1	21.76	23.00	1.330	62.9	1.006	-0.08	0.070	0.094
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	0.11	0.146	0.196
	LTE_CA_41C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	40620+40818	2593+2612.8	1	22.61	24.00	1.377	62.9	1.006	0.01	0.139	0.193
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	40620	2593	1	21.76	23.00	1.330	62.9	1.006	-0.13	0.142	0.190
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	-0.12	0.091	0.122
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	Full Power	40620	2593	1	21.76	23.00	1.330	62.9	1.006	-0.1	0.072	0.096
24	LTE Band 41_HPUE	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	Full Power	40620	2593	1	25.66	27.00	1.361	42.9	1.009	0.06	0.177	0.243
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	518598	2592.99	1	26.38	27.00	1.153	-	-	-0.15	0.156	0.180
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-	0.03	0.164	0.191
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	518598	2592.99	1	26.38	27.00	1.153	-	-	0.17	0.152	0.175
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-	0.02	0.163	0.190
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	518598	2592.99	1	26.38	27.00	1.153	-	-	0.05	0.351	0.405
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-	-0.07	0.358	0.417
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	518598	2592.99	1	26.38	27.00	1.153	-	-	-0.18	0.160	0.185
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-	-0.01	0.173	0.201
EN-DC																						
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant1	DSI 2	Reduced	518598	2592.99	1	16.85	18.00	1.303	-	-	-0.15	0.356	0.464
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant1	DSI 2	Reduced	518598	2592.99	1	17.00	18.00	1.259	-	-	-0.13	0.343	0.432
25	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant1	DSI 2	Reduced	518598	2592.99	1	16.85	18.00	1.303	-	-	0.07	0.425	0.554
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant1	DSI 2	Reduced	518598	2592.99	1	17.00	18.00	1.259	-	-	-0.06	0.397	0.500
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant1	DSI 2	Reduced	518598	2592.99	1	16.85	18.00	1.303	-	-	-0.17	0.128	0.167
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant1	DSI 2	Reduced	518598	2592.99	1	17.00	18.00	1.259	-	-	-0.07	0.120	0.151
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant1	DSI 2	Reduced	518598	2592.99	1	16.85	18.00	1.303	-	-	-0.03	0.162	0.211
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant1	DSI 2	Reduced	518598	2592.99	1	17.00	18.00	1.259	-	-	0.13	0.146	0.184
3300-4100MHz																						
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	20.27	21.50	1.327	62.9	1.006	-0.05	0.503	0.672
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	Reduced	55340	3560	1	20.16	21.50	1.361	62.9	1.006	0.08	0.433	0.593
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	Reduced	55830	3609	1	20.19	21.50	1.352	62.9	1.006	-0.17	0.600	0.816
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	Reduced	56640	3690	1	20.09	21.50	1.384	62.9	1.006	-0.05	0.733	1.020
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	19.26	20.50	1.330	62.9	1.006	0.14	0.424	0.567
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	19.16	20.50	1.361	62.9	1.006	0.02	0.431	0.590



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	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	20.27	21.50	1.327	62.9	1.006	0.17	0.599	0.800
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	Reduced	55340	3560	1	20.16	21.50	1.361	62.9	1.006	0.02	0.597	0.818
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	Reduced	55830	3609	1	20.19	21.50	1.352	62.9	1.006	0.05	0.696	0.947
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	Reduced	56640	3690	1	20.09	21.50	1.384	62.9	1.006	0.13	0.829	1.154
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	19.26	20.50	1.330	62.9	1.006	-0.08	0.492	0.659
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	Reduced	55340	3560	1	19.09	20.50	1.384	62.9	1.006	0.15	0.402	0.560
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	Reduced	55830	3609	1	19.18	20.50	1.355	62.9	1.006	0.05	0.581	0.792
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	Reduced	56640	3690	1	19.07	20.50	1.390	62.9	1.006	-0.15	0.621	0.868
	LTE Band 48	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	19.16	20.50	1.361	62.9	1.006	0.11	0.504	0.690
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	20.27	21.50	1.327	62.9	1.006	0.18	0.616	0.823
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	Reduced	55340	3560	1	20.16	21.50	1.361	62.9	1.006	-0.16	0.696	0.953
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	Reduced	55830	3609	1	20.19	21.50	1.352	62.9	1.006	-0.14	0.671	0.913
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	Reduced	56640	3690	1	20.09	21.50	1.384	62.9	1.006	-0.13	0.785	1.093
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	19.26	20.50	1.330	62.9	1.006	-0.06	0.494	0.661
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	Reduced	55340	3560	1	19.09	20.50	1.384	62.9	1.006	-0.1	0.410	0.571
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	Reduced	55830	3609	1	19.18	20.50	1.355	62.9	1.006	-0.14	0.590	0.804
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	Reduced	56640	3690	1	19.07	20.50	1.390	62.9	1.006	-0.14	0.410	0.573
	LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	19.16	20.50	1.361	62.9	1.006	-0.11	0.497	0.681
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	20.27	21.50	1.327	62.9	1.006	-0.1	0.709	0.947
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	Reduced	55340	3560	1	20.16	21.50	1.361	62.9	1.006	-0.01	0.797	1.092
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	Reduced	55830	3609	1	20.19	21.50	1.352	62.9	1.006	0.1	0.791	1.076
26	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	Reduced	56640	3690	1	20.09	21.50	1.384	62.9	1.006	-0.08	0.924	1.286
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	Reduced	56640	3690	2	20.09	21.50	1.384	62.9	1.006	0.09	0.912	1.269
	LTE Band 48C	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	Reduced	56640+56442	3690+3670.2	1	20.43	21.50	1.279	62.9	1.006	-0.03	0.876	1.127
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	19.26	20.50	1.330	62.9	1.006	0.12	0.564	0.755
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	Reduced	55340	3560	1	19.09	20.50	1.384	62.9	1.006	-0.13	0.480	0.668
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	Reduced	55830	3609	1	19.18	20.50	1.355	62.9	1.006	0.1	0.650	0.886
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	Reduced	56640	3690	1	19.07	20.50	1.390	62.9	1.006	-0.05	0.470	0.657
	LTE Band 48	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 2	DSI 2	Reduced	56150	3641	1	19.16	20.50	1.361	62.9	1.006	-0.02	0.563	0.771
EN-DC																						
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant2	DSI 2	Reduced	56150	3641	1	17.75	18.50	1.189	62.9	1.006	-0.03	0.254	0.304
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant2	DSI 2	Reduced	56150	3641	1	16.73	17.50	1.194	62.9	1.006	0.01	0.214	0.257
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant2	DSI 2	Reduced	56150	3641	1	17.75	18.50	1.189	62.9	1.006	0.11	0.303	0.362
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant2	DSI 2	Reduced	56150	3641	1	16.73	17.50	1.194	62.9	1.006	0.1	0.249	0.299
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant2	DSI 2	Reduced	56150	3641	1	17.75	18.50	1.189	62.9	1.006	-0.06	0.311	0.372
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant2	DSI 2	Reduced	56150	3641	1	16.73	17.50	1.194	62.9	1.006	0.03	0.250	0.300
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant2	DSI 2	Reduced	56150	3641	1	17.75	18.50	1.189	62.9	1.006	0.08	0.467	0.558
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant2	DSI 2	Reduced	56150	3641	1	16.73	17.50	1.194	62.9	1.006	-0.1	0.285	0.342
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.80	18.50	1.175	-	-	0.19	0.459	0.539
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.88	18.50	1.153	-	-	0.08	0.572	0.660
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.05	18.50	1.396	-	-	0.12	0.522	0.729
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.80	18.50	1.175	-	-	0.03	0.570	0.670
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.88	18.50	1.153	-	-	-0.17	0.703	0.811
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.05	18.50	1.396	-	-	0.11	0.648	0.905
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.80	18.50	1.175	-	-	0.1	0.606	0.712
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.88	18.50	1.153	-	-	0.05	0.742	0.856
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.05	18.50	1.396	-	-	-0.17	0.718	1.003
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.80	18.50	1.175	-	-	0.12	0.687	0.807
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.88	18.50	1.153	-	-	0.01	0.879	1.014
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	Reduced	656000	3840	1	17.05	18.50	1.396	-	-	-0.15	0.724	1.011
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	Reduced	633334	3500.01	1	17.01	18.50	1.409	-	-	0.04	0.561	0.791
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	Reduced	633334	3500.01	1	17.65	18.50	1.216	-	-	-0.13	0.713	0.867
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	Reduced	633334	3500.01	1	16.69	18.50	1.517	-	-	0.12	0.635	0.963
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	Reduced	633334	3500.01	1	17.01	18.50	1.409	-	-	0.06	0.648	0.913
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	Reduced	633334	3500.01	1	17.65	18.50	1.216	-	-	-0.02	0.843	1.025
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm														



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	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	Reduced	633334	3500.01	1	17.01	18.50	1.409	-	-	0.05	0.626	0.882
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	Reduced	633334	3500.01	1	17.65	18.50	1.216	-	-	0.04	0.744	0.905
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	Reduced	633334	3500.01	1	16.69	18.50	1.517	-	-	-0.13	0.536	0.813
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	Reduced	633334	3500.01	1	17.01	18.50	1.409	-	-	-0.09	0.715	1.008
27	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	Reduced	633334	3500.01	1	17.65	18.50	1.216	-	-	0.15	0.923	1.123
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	Reduced	633334	3500.01	1	16.69	18.50	1.517	-	-	-0.16	0.677	1.027
EN-DC																						
	FR1 n77 Part 27O(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant2	DSI 2	Reduced	656000	3840	1	14.34	15.00	1.164	-	-	-0.16	0.216	0.251
	FR1 n77 Part 27O(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant2	DSI 2	Reduced	656000	3840	1	14.53	15.00	1.114	-	-	-0.16	0.269	0.300
	FR1 n77 Part 27O(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant2	DSI 2	Reduced	656000	3840	1	14.34	15.00	1.164	-	-	0.14	0.268	0.312
	FR1 n77 Part 27O(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant2	DSI 2	Reduced	656000	3840	1	14.53	15.00	1.114	-	-	0.08	0.334	0.372
	FR1 n77 Part 27O(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant2	DSI 2	Reduced	656000	3840	1	14.34	15.00	1.164	-	-	-0.03	0.285	0.332
	FR1 n77 Part 27O(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant2	DSI 2	Reduced	656000	3840	1	14.53	15.00	1.114	-	-	-0.07	0.350	0.390
	FR1 n77 Part 27O(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant2	DSI 2	Reduced	656000	3840	1	14.34	15.00	1.164	-	-	-0.01	0.324	0.377
	FR1 n77 Part 27O(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant2	DSI 2	Reduced	656000	3840	1	14.53	15.00	1.114	-	-	0.05	0.416	0.464
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant2	DSI 2	Reduced	633334	3500.01	1	14.48	15.00	1.127	-	-	-0.05	0.277	0.312
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant2	DSI 2	Reduced	633334	3500.01	1	14.59	15.00	1.099	-	-	0.02	0.352	0.387
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant2	DSI 2	Reduced	633334	3500.01	1	14.48	15.00	1.127	-	-	0.04	0.320	0.361
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant2	DSI 2	Reduced	633334	3500.01	1	14.59	15.00	1.099	-	-	0.08	0.417	0.458
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant2	DSI 2	Reduced	633334	3500.01	1	14.48	15.00	1.127	-	-	0.13	0.309	0.348
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant2	DSI 2	Reduced	633334	3500.01	1	14.59	15.00	1.099	-	-	-0.04	0.368	0.404
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant2	DSI 2	Reduced	633334	3500.01	1	14.48	15.00	1.127	-	-	0.07	0.353	0.398
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant2	DSI 2	Reduced	633334	3500.01	1	14.59	15.00	1.099	-	-	0.06	0.456	0.501

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Sample	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 8	Standalone	6	2437	1	12.95	14.50	1.429	100	1.000	0.07	0.344	0.492	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 8	Standalone	6	2437	1	12.95	14.50	1.429	100	1.000	0.03	0.302	0.432	
28	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Standalone	6	2437	1	12.95	14.50	1.429	100	1.000	-0.11	0.890	1.272	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Standalone	11	2462	1	12.84	14.50	1.466	100	1.000	-0.14	0.695	1.019	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Standalone	1	2412	1	12.80	14.50	1.479	100	1.000	-0.1	0.731	1.081	
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 8	Standalone	6	2437	1	13.27	14.50	1.327	97.46	1.026	-0.09	0.612	0.833	
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Cheek	0mm	Ant 8	Standalone	6	2437	1	13.30	14.50	1.318	97.28	1.028	-0.01	0.733	0.993	
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8	Standalone	6	2437	1	13.12	14.50	1.374	94.92	1.054	0.05	0.685	0.992	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8	Standalone	6	2437	1	12.95	14.50	1.429	100	1.000	0.16	0.747	1.067	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8	Standalone	11	2462	1	12.84	14.50	1.466	100	1.000	0.08	0.647	0.948	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Simultaneous	6	2437	1	9.11	10.50	1.377	100	1.000	0.02	0.117	0.161	
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 8	Full Power	78	2480	1	14.23	15.00	1.195	76.79	1.302	-0.08	0.032	0.050	
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 8	Full Power	78	2480	1	14.23	15.00	1.195	76.79	1.302	-0.08	0.028	0.044	
29	Bluetooth	1Mbps	Left Cheek	0mm	Ant 8	Full Power	78	2480	1	14.23	15.00	1.195	76.79	1.302	-0.08	0.077	0.120	
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 8	Full Power	78	2480	1	14.23	15.00	1.195	76.79	1.302	-0.08	0.073	0.114	
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 8	Standalone	54	5270	1	16.11	17.50	1.377	94.68	1.056	0.08	0.357	0.519	
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 8	Standalone	54	5270	1	16.11	17.50	1.377	94.68	1.056	0.09	0.448	0.652	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8	Standalone	54	5270	1	16.11	17.50	1.377	94.68	1.056	0.07	0.559	0.813	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8	Standalone	62	5310	1	14.70	16.00	1.349	94.68	1.056	0.03	0.595	0.848	
30	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 8	Standalone	54	5270	1	16.11	17.50	1.377	94.68	1.056	-0.03	0.730	1.062	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 8	Standalone	62	5310	1	14.70	16.00	1.349	94.68	1.056	0.07	0.636	0.906	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8	Simultaneous	58	5290	1	8.32	10.00	1.472	90.28	1.108	0.03	0.131	0.214	
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 8	Standalone	134	5670	1	16.81	18.50	1.476	94.68	1.056	-0.15	0.406	0.633	
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 8	Standalone	134	5670	1	16.81	18.50	1.476	94.68	1.056	0.06	0.514	0.801	
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 8	Standalone	110	5550	1	16.75	18.50	1.496	94.68	1.056	-0.03	0.458	0.724	
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8	Standalone	134	5670	1	16.81	18.50	1.476	94.68	1.056	0.01	0.610	0.951	
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8	Standalone	110	5550	1	16.75	18.50	1.496	94.68	1.056	0.05	0.518	0.818	
31	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 8	Standalone	134	5670	1	16.81	18.50	1.476	94.68	1.056	-0.18	0.759	1.183	

Sporton International Inc. (Kunshan)

TEL : 86-512-57900158 / FAX : 86-512-57900958

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	WLAN5.8GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 8	Standalone	110	5550	1	16.75	18.50	1.496	94.68	1.056	0.09	0.657	1.038
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8	Simultaneous	106	5530	1	8.76	10.50	1.493	90.28	1.108	0.08	0.129	0.213
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 8	Standalone	155	5775	1	16.85	18.50	1.462	90.28	1.108	-0.03	0.347	0.562
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 8	Standalone	155	5775	1	16.85	18.50	1.462	90.28	1.108	0.09	0.429	0.695
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8	Standalone	155	5775	1	16.85	18.50	1.462	90.28	1.108	0.05	0.503	0.815
32	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8	Standalone	155	5775	1	16.85	18.50	1.462	90.28	1.108	0.15	0.728	1.179
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8	Simultaneous	155	5775	1	8.89	10.50	1.449	90.28	1.108	0.15	0.120	0.193

15.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq (MHz)	Sample	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 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 4	Full Power	133322	683	1	23.01	24.00	1.256	0.02	0.364	0.457
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 4	Full Power	133322	683	1	21.96	23.00	1.271	0.01	0.309	0.393
33	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 4	Full Power	133322	683	1	23.01	24.00	1.256	-0.03	0.664	0.834
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 4	Full Power	133322	683	1	21.96	23.00	1.271	-0.05	0.540	0.686
	LTE Band 71	20M	QPSK	100	0	-	Back	5mm	Ant 0	DSI 4	Full Power	133322	683	1	21.89	23.00	1.291	0.01	0.564	0.728
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 4	Full Power	133322	683	1	23.01	24.00	1.256	0.08	0.269	0.338
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 4	Full Power	133322	683	1	21.96	23.00	1.271	0.04	0.238	0.302
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 4	Full Power	133322	683	1	23.01	24.00	1.256	0.09	0.454	0.570
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 4	Full Power	133322	683	1	21.96	23.00	1.271	0.04	0.407	0.517
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	133322	683	1	23.01	24.00	1.256	0.01	0.523	0.657
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	133322	683	1	21.96	23.00	1.271	-0.06	0.420	0.534
EN-DC																				
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant1	DSI 4	Full Power	133322	683	1	22.87	24.00	1.297	-0.09	0.146	0.189
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant1	DSI 4	Full Power	133322	683	1	21.93	23.00	1.279	0.05	0.097	0.124
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant1	DSI 4	Full Power	133322	683	1	22.87	24.00	1.297	0.01	0.330	0.428
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant1	DSI 4	Full Power	133322	683	1	21.93	23.00	1.279	-0.04	0.213	0.273
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant1	DSI 4	Full Power	133322	683	1	22.87	24.00	1.297	0.06	0.233	0.302
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant1	DSI 4	Full Power	133322	683	1	21.93	23.00	1.279	0.08	0.138	0.177
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant1	DSI 4	Full Power	133322	683	1	22.87	24.00	1.297	-0.06	0.094	0.122
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant1	DSI 4	Full Power	133322	683	1	21.93	23.00	1.279	0.08	0.049	0.063
	LTE Band 71	20M	QPSK	1	0	-	Top Side	5mm	Ant1	DSI 4	Full Power	133322	683	1	22.87	24.00	1.297	0.09	0.316	0.410
	LTE Band 71	20M	QPSK	50	0	-	Top Side	5mm	Ant1	DSI 4	Full Power	133322	683	1	21.93	23.00	1.279	-0.01	0.224	0.287
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	22.84	24.00	1.306	0.05	0.456	0.596
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	21.86	23.00	1.300	-0.04	0.364	0.473
34	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	22.84	24.00	1.306	-0.17	0.647	0.845
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	21.86	23.00	1.300	-0.08	0.520	0.676
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	21.79	23.00	1.321	-0.09	0.612	0.809
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	22.84	24.00	1.306	0.07	0.352	0.460
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	21.86	23.00	1.300	-0.11	0.272	0.354
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	22.84	24.00	1.306	-0.15	0.603	0.788
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	21.86	23.00	1.300	-0.11	0.502	0.653
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	22.84	24.00	1.306	-0.13	0.629	0.822
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	21.86	23.00	1.300	0.02	0.490	0.637
	LTE Band 12	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	23095	707.5	1	21.79	23.00	1.321	-0.01	0.593	0.784
EN-DC																				
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant0	DSI 3	Reduced	23095	707.5	1	21.36	23.00	1.459	0.02	0.302	0.441
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant0	DSI 3	Reduced	23095	707.5	1	20.34	22.00	1.466	-0.07	0.241	0.353
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant0	DSI 3	Reduced	23095	707.5	1	21.36	23.00	1.459	-0.04	0.429	0.626
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant0	DSI 3	Reduced	23095	707.5	1	20.34	22.00	1.466	-0.13	0.345	0.506
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	23095	707.5	1	21.86	23.00	1.300	-0.04	0.233	0.303
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	23095	707.5	1	20.84	22.00	1.306	0.05	0.181	0.236



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LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	23095	707.5	1	21.86	23.00	1.300	0.13	0.419	0.545	
LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	23095	707.5	1	20.84	22.00	1.306	0.12	0.333	0.435	
LTE Band 12	10M	QPSK	1	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	23095	707.5	1	21.86	23.00	1.300	-0.06	0.417	0.542	
LTE Band 12	10M	QPSK	25	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	23095	707.5	1	20.84	22.00	1.306	-0.07	0.325	0.425	
LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant1	DSI 4	Full Power	23095	707.5	1	22.94	24.00	1.276	-0.1	0.186	0.237	
LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant1	DSI 4	Full Power	23095	707.5	1	22.02	23.00	1.253	-0.02	0.208	0.261	
LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant1	DSI 4	Full Power	23095	707.5	1	22.94	24.00	1.276	-0.04	0.441	0.563	
LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant1	DSI 4	Full Power	23095	707.5	1	22.02	23.00	1.253	-0.11	0.365	0.457	
LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant1	DSI 4	Full Power	23095	707.5	1	22.94	24.00	1.276	-0.01	0.197	0.251	
LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant1	DSI 4	Full Power	23095	707.5	1	22.02	23.00	1.253	-0.11	0.220	0.276	
LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant1	DSI 4	Full Power	23095	707.5	1	22.94	24.00	1.276	-0.08	0.065	0.083	
LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant1	DSI 4	Full Power	23095	707.5	1	22.02	23.00	1.253	0.02	0.077	0.096	
LTE Band 12	10M	QPSK	1	0	-	Top Side	5mm	Ant1	DSI 4	Full Power	23095	707.5	1	22.94	24.00	1.276	0.14	0.337	0.430	
LTE Band 12	10M	QPSK	25	0	-	Top Side	5mm	Ant1	DSI 4	Full Power	23095	707.5	1	22.02	23.00	1.253	0.1	0.361	0.452	
LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 4	Full Power	23230	782	1	22.84	24.00	1.306	0.05	0.600	0.784	
LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	DSI 4	Full Power	23230	782	1	21.88	23.00	1.294	-0.08	0.563	0.729	
LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 4	Full Power	23230	782	1	22.84	24.00	1.306	0.03	0.852	1.113	
LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	DSI 4	Full Power	23230	782	1	21.88	23.00	1.294	-0.01	0.786	1.017	
LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 4	Full Power	23230	782	1	21.81	23.00	1.315	-0.1	0.789	1.038	
LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 4	Full Power	23230	782	1	22.84	24.00	1.306	-0.13	0.383	0.500	
LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	DSI 4	Full Power	23230	782	1	21.88	23.00	1.294	0.13	0.353	0.457	
LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 4	Full Power	23230	782	1	22.84	24.00	1.306	-0.14	0.622	0.812	
LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	DSI 4	Full Power	23230	782	1	21.88	23.00	1.294	0.04	0.595	0.770	
LTE Band 13	10M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 4	Full Power	23230	782	1	21.81	23.00	1.315	0.05	0.601	0.790	
35	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	23230	782	1	22.84	24.00	1.306	-0.07	0.971	1.268
LTE Band 13	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	23230	782	1	21.88	23.00	1.294	-0.08	0.798	1.033	
LTE Band 13	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	23230	782	1	21.81	23.00	1.315	0.09	0.794	1.044	
LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 4	Full Power	23230	782	1	23.07	24.00	1.239	0.02	0.339	0.420	
LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI 4	Full Power	23230	782	1	22.12	23.00	1.225	-0.05	0.237	0.290	
LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 4	Full Power	23230	782	1	23.07	24.00	1.239	-0.09	0.472	0.585	
LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI 4	Full Power	23230	782	1	22.12	23.00	1.225	-0.1	0.328	0.402	
LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 4	Full Power	23230	782	1	23.07	24.00	1.239	-0.08	0.457	0.566	
LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	DSI 4	Full Power	23230	782	1	22.12	23.00	1.225	0.05	0.315	0.386	
LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 4	Full Power	23230	782	1	23.07	24.00	1.239	-0.05	0.223	0.276	
LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	DSI 4	Full Power	23230	782	1	22.12	23.00	1.225	-0.13	0.148	0.181	
LTE Band 13	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 4	Full Power	23230	782	1	23.07	24.00	1.239	-0.11	0.642	0.795	
LTE Band 13	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	DSI 4	Full Power	23230	782	1	22.12	23.00	1.225	-0.05	0.545	0.667	
EN-DC																				
LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant0	DSI 3	Reduced	23230	782	1	19.72	21.50	1.507	-0.02	0.308	0.464	
LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant0	DSI 3	Reduced	23230	782	1	18.59	20.50	1.552	0.02	0.289	0.449	
LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant0	DSI 3	Reduced	23230	782	1	19.72	21.50	1.507	-0.18	0.437	0.658	
LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant0	DSI 3	Reduced	23230	782	1	18.59	20.50	1.552	-0.05	0.403	0.626	
LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	23230	782	1	19.19	21.00	1.517	0.1	0.175	0.265	
LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	23230	782	1	18.33	20.00	1.469	0.01	0.161	0.236	
LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	23230	782	1	19.19	21.00	1.517	0.01	0.284	0.431	
LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	23230	782	1	18.33	20.00	1.469	0.16	0.272	0.400	
LTE Band 13	10M	QPSK	1	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	23230	782	1	19.19	21.00	1.517	-0.07	0.444	0.674	
LTE Band 13	10M	QPSK	25	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	23230	782	1	18.33	20.00	1.469	-0.09	0.365	0.536	
LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant1	DSI 4	Full Power	23230	782	1	23.07	24.00	1.239	0.02	0.339	0.420	
LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant1	DSI 4	Full Power	23230	782	1	22.12	23.00	1.225	-0.05	0.237	0.290	
LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant1	DSI 4	Full Power	23230	782	1	23.07	24.00	1.239	-0.09	0.472	0.585	
LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant1	DSI 4	Full Power	23230	782	1	22.12	23.00	1.225	-0.1	0.328	0.402	
LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant1	DSI 7	Reduced	23230	782	1	20.71	22.00	1.346	-0.08	0.311	0.419	
LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant1	DSI 7	Reduced	23230	782	1	19.52	21.00	1.406	0.05	0.215	0.302	
LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant1	DSI 7	Reduced	23230	782	1	20.71	22.00	1.346	-0.05	0.152	0.205	
LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant1	DSI 7	Reduced	23230	782	1	19.52	21.00	1.406	-0.13	0.101	0.142	



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	LTE Band 13	10M	QPSK	1	0	-	Top Side	5mm	Ant1	DSI 7	Reduced	23230	782	1	20.71	22.00	1.346	-0.17	0.434	0.584	
	LTE Band 13	10M	QPSK	25	0	-	Top Side	5mm	Ant1	DSI 7	Reduced	23230	782	1	19.52	21.00	1.406	-0.05	0.371	0.522	
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 4	Full Power	23330	793	1	22.89	24.00	1.291	0.06	0.607	0.784	
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	DSI 4	Full Power	23330	793	1	21.86	23.00	1.300	-0.18	0.483	0.628	
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 4	Full Power	23330	793	1	22.89	24.00	1.291	-0.05	0.880	1.136	
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	DSI 4	Full Power	23330	793	1	21.86	23.00	1.300	-0.05	0.698	0.908	
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 4	Full Power	23330	793	1	21.85	23.00	1.303	0.18	0.698	0.910	
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 4	Full Power	23330	793	1	22.89	24.00	1.291	-0.04	0.271	0.350	
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	DSI 4	Full Power	23330	793	1	21.86	23.00	1.300	-0.17	0.211	0.274	
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 4	Full Power	23330	793	1	22.89	24.00	1.291	0.14	0.597	0.771	
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	DSI 4	Full Power	23330	793	1	21.86	23.00	1.300	0.18	0.473	0.615	
36	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	23330	793	1	22.89	24.00	1.291	-0.05	1.080	1.395	
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	23330	793	1	21.86	23.00	1.300	0.03	0.848	1.103	
	LTE Band 14	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	23330	793	1	21.85	23.00	1.303	0.02	0.847	1.104	
EN-DC																					
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant0	DSI 3	Reduced	23330	793	1	19.71	21.50	1.510	-0.02	0.291	0.439	
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant0	DSI 3	Reduced	23330	793	1	18.71	20.50	1.510	-0.18	0.231	0.349	
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant0	DSI 3	Reduced	23330	793	1	19.71	21.50	1.510	-0.1	0.422	0.637	
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant0	DSI 3	Reduced	23330	793	1	18.71	20.50	1.510	0.15	0.335	0.506	
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	23330	793	1	18.68	20.50	1.521	-0.13	0.104	0.158	
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	23330	793	1	17.69	19.50	1.517	0.12	0.081	0.123	
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	23330	793	1	18.68	20.50	1.521	-0.03	0.228	0.347	
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	23330	793	1	17.69	19.50	1.517	-0.12	0.181	0.275	
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	23330	793	1	18.68	20.50	1.521	-0.04	0.413	0.628	
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	23330	793	1	17.69	19.50	1.517	0.13	0.324	0.492	
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant1	DSI 3	Reduced	23330	793	1	21.54	22.50	1.247	0.06	0.327	0.408	
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant1	DSI 3	Reduced	23330	793	1	21.47	22.50	1.268	0.04	0.247	0.313	
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant1	DSI 3	Reduced	23330	793	1	21.54	22.50	1.247	-0.07	0.488	0.609	
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant1	DSI 3	Reduced	23330	793	1	21.47	22.50	1.268	0.03	0.371	0.470	
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant1	DSI 7	Reduced	23330	793	1	19.07	20.00	1.239	0.15	0.201	0.249	
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant1	DSI 7	Reduced	23330	793	1	18.91	20.00	1.285	0.18	0.149	0.192	
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant1	DSI 7	Reduced	23330	793	1	19.07	20.00	1.239	0.02	0.098	0.121	
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant1	DSI 7	Reduced	23330	793	1	18.91	20.00	1.285	0.02	0.074	0.095	
	LTE Band 14	10M	QPSK	1	0	-	Top Side	5mm	Ant1	DSI 7	Reduced	23330	793	1	19.07	20.00	1.239	0.05	0.418	0.518	
	LTE Band 14	10M	QPSK	25	0	-	Top Side	5mm	Ant1	DSI 7	Reduced	23330	793	1	18.91	20.00	1.285	0.13	0.277	0.356	
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 4	Full Power	136100	680.5	1	23.13	24.00	1.222	-0.04	0.191	0.233	
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 4	Full Power	136100	680.5	1	23.05	24.00	1.245	-0.1	0.216	0.269	
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 4	Full Power	136100	680.5	1	23.13	24.00	1.222	-0.01	0.334	0.408	
37	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 4	Full Power	136100	680.5	1	23.05	24.00	1.245	-0.08	0.413	0.514	
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 4	Full Power	136100	680.5	1	23.13	24.00	1.222	0.08	0.125	0.153	
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 4	Full Power	136100	680.5	1	23.05	24.00	1.245	0.03	0.154	0.192	
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 4	Full Power	136100	680.5	1	23.13	24.00	1.222	-0.14	0.249	0.304	
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 4	Full Power	136100	680.5	1	23.05	24.00	1.245	-0.1	0.277	0.345	
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 4	Full Power	136100	680.5	1	23.13	24.00	1.222	-0.08	0.225	0.275	
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 4	Full Power	136100	680.5	1	23.05	24.00	1.245	-0.19	0.258	0.321	
EN-DC																					
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 4	Full Power	136100	680.5	1	22.95	24.00	1.274	-0.19	0.139	0.177	
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 4	Full Power	136100	680.5	1	22.91	24.00	1.285	0.18	0.128	0.165	
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 4	Full Power	136100	680.5	1	22.95	24.00	1.274	-0.05	0.251	0.320	
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 4	Full Power	136100	680.5	1	22.91	24.00	1.285	-0.02	0.200	0.257	
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 4	Full Power	136100	680.5	1	22.95	24.00	1.274	-0.15	0.265	0.337	
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 4	Full Power	136100	680.5	1	22.91	24.00	1.285	0.11	0.235	0.302	
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 4	Full Power	136100	680.5	1	22.95	24.00	1.274	0.01	0.109	0.139	
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 4	Full Power	136100	680.5	1	22.91	24.00	1.285	-0.19	0.088	0.113	
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 4	Full Power	136100	680.5	1	22.95	24.00	1.274	-0.17	0.320	0.408	
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 4	Full Power	136100	680.5	1	22.91	24.00	1.285	-0.08	0.295	0.379	



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	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 4	Full Power	141500	707.5	1	23.15	24.00	1.216	0.13	0.255	0.310
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 4	Full Power	141500	707.5	1	23.13	24.00	1.222	-0.14	0.225	0.275
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 4	Full Power	141500	707.5	1	23.15	24.00	1.216	-0.08	0.322	0.392
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 4	Full Power	141500	707.5	1	23.13	24.00	1.222	-0.06	0.293	0.358
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 4	Full Power	141500	707.5	1	23.15	24.00	1.216	0.18	0.248	0.302
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 4	Full Power	141500	707.5	1	23.13	24.00	1.222	-0.15	0.268	0.327
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 4	Full Power	141500	707.5	1	23.15	24.00	1.216	0.17	0.470	0.572
38	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 4	Full Power	141500	707.5	1	23.13	24.00	1.222	-0.08	0.480	0.586
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 4	Full Power	141500	707.5	1	23.15	24.00	1.216	0.02	0.344	0.418
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 4	Full Power	141500	707.5	1	23.13	24.00	1.222	0.08	0.348	0.425

EN-DC

	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 4	Full Power	141500	707.5	1	23.02	24.00	1.253	0.17	0.161	0.202
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 4	Full Power	141500	707.5	1	22.98	24.00	1.265	-0.1	0.199	0.252
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 4	Full Power	141500	707.5	1	23.02	24.00	1.253	-0.07	0.284	0.356
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 4	Full Power	141500	707.5	1	22.98	24.00	1.265	-0.04	0.312	0.395
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 4	Full Power	141500	707.5	1	23.02	24.00	1.253	0.05	0.198	0.248
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 4	Full Power	141500	707.5	1	22.98	24.00	1.265	-0.1	0.255	0.323
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 4	Full Power	141500	707.5	1	23.02	24.00	1.253	-0.02	0.076	0.095
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 4	Full Power	141500	707.5	1	22.98	24.00	1.265	0.16	0.110	0.139
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 4	Full Power	141500	707.5	1	23.02	24.00	1.253	0.02	0.304	0.381
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 4	Full Power	141500	707.5	1	22.98	24.00	1.265	-0.05	0.368	0.465

	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 4	Full Power	158600	793	1	22.94	24.00	1.276	-0.1	0.434	0.554
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 4	Full Power	158600	793	1	22.92	24.00	1.282	-0.13	0.343	0.440
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 4	Full Power	158600	793	1	22.94	24.00	1.276	-0.01	0.569	0.726
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 4	Full Power	158600	793	1	22.92	24.00	1.282	-0.19	0.503	0.645
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 4	Full Power	158600	793	1	22.94	24.00	1.276	0.19	0.195	0.249
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 4	Full Power	158600	793	1	22.92	24.00	1.282	0.1	0.154	0.197
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 4	Full Power	158600	793	1	22.94	24.00	1.276	0.12	0.407	0.520
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 4	Full Power	158600	793	1	22.92	24.00	1.282	-0.01	0.323	0.414
39	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 4	Full Power	158600	793	1	22.94	24.00	1.276	-0.08	0.698	0.891
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 4	Full Power	158600	793	1	22.92	24.00	1.282	-0.19	0.536	0.687
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 4	Full Power	158600	793	1	21.86	23.00	1.300	-0.02	0.553	0.719

Plo No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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)	Front	5mm	Ant 0	DSI 3	Reduced	189	836.4	1	27.77	29.00	1.327	0.15	0.528	0.701
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI 3	Reduced	189	836.4	1	27.77	29.00	1.327	0.11	0.916	1.216
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI 3	Reduced	128	824.2	1	27.74	29.00	1.337	-0.02	0.815	1.089
40	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI 3	Reduced	251	848.8	1	27.76	29.00	1.330	-0.07	1.050	1.397
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI 3	Reduced	251	848.8	2	27.76	29.00	1.330	0.09	0.995	1.324
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Left Side	5mm	Ant 0	DSI 7	Reduced	189	836.4	1	27.76	28.50	1.186	-0.16	0.149	0.177
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Right Side	5mm	Ant 0	DSI 7	Reduced	189	836.4	1	27.76	28.50	1.186	0.03	0.439	0.521
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 0	DSI 7	Reduced	189	836.4	1	27.76	28.50	1.186	0.08	1.040	1.233
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 0	DSI 7	Reduced	128	824.2	1	27.74	28.50	1.191	-0.16	1.050	1.251
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 0	DSI 7	Reduced	251	848.8	1	27.66	28.50	1.213	-0.07	1.080	1.310
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3	Reduced	4182	836.4	1	22.35	23.00	1.161	-0.11	0.648	0.753
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	Reduced	4182	836.4	1	22.35	23.00	1.161	-0.14	1.110	1.289
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	Reduced	4132	826.4	1	22.09	23.00	1.233	0.13	0.972	1.199
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	Reduced	4233	846.6	1	22.27	23.00	1.183	-0.03	1.130	1.337
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 7	Reduced	4182	836.4	1	21.64	22.50	1.219	0.18	0.169	0.206
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 7	Reduced	4182	836.4	1	21.64	22.50	1.219	0.03	0.450	0.549
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	Reduced	4182	836.4	1	21.64	22.50	1.219	-0.02	1.050	1.280
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	Reduced	4132	826.4	1	21.52	22.50	1.253	0.03	0.982	1.231
41	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	Reduced	4233	846.6	1	21.59	22.50	1.233	0.05	1.120	1.381
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3	Reduced	26865	831.5	1	21.79	23.00	1.321	0.16	0.595	0.786

Sporton International Inc. (Kunshan)

TEL : 86-512-57900158 / FAX : 86-512-57900958

FCC ID : IHD56AA3

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FCC SAR Test Report

Report No. : FA1D1722

	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	DSI 3	Reduced	26865	831.5	1	20.71	22.00	1.346	0.11	0.475	0.639	
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	26865	831.5	1	21.79	23.00	1.321	0.14	1.030	1.361	
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 0	DSI 3	Reduced	20525+ 20597	836.5+ 843.7	1	21.48	23.00	1.419	0.01	0.873	1.239	
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	DSI 3	Reduced	26865	831.5	1	20.71	22.00	1.346	-0.17	0.811	1.091	
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	DSI 3	Reduced	26865	831.5	1	20.70	22.00	1.349	0.17	0.791	1.067	
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 7	Reduced	26865	831.5	1	21.39	22.50	1.291	0.04	0.161	0.208	
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	DSI 7	Reduced	26865	831.5	1	20.20	21.50	1.349	0.01	0.124	0.167	
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 7	Reduced	26865	831.5	1	21.39	22.50	1.291	-0.05	0.432	0.558	
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 0	DSI 7	Reduced	26865	831.5	1	20.20	21.50	1.349	0.17	0.342	0.461	
42	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	26865	831.5	1	21.39	22.50	1.291	-0.04	1.070	1.382	
	LTE Band 5B	10M	QPSK	1	49	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	20525+ 20597	836.5+ 843.7	1	21.11	22.50	1.377	0.01	0.865	1.191	
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	26865	831.5	1	20.20	21.50	1.349	-0.18	0.821	1.107	
	LTE Band 26	15M	QPSK	75	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	26865	831.5	1	20.21	21.50	1.346	-0.09	0.813	1.094	
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	Reduced	26865	831.5	1	21.73	23.00	1.340	0.02	0.584	0.782	
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	DSI 3	Reduced	26865	831.5	1	20.78	22.00	1.324	-0.13	0.456	0.604	
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	Reduced	26865	831.5	1	21.73	23.00	1.340	-0.08	0.943	1.263	
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	DSI 3	Reduced	26865	831.5	1	20.78	22.00	1.324	0.14	0.724	0.959	
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 1	DSI 3	Reduced	26865	831.5	1	20.67	22.00	1.358	-0.04	0.691	0.939	
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 7	Reduced	26865	831.5	1	20.72	21.50	1.197	-0.09	0.393	0.470	
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 1	DSI 7	Reduced	26865	831.5	1	19.77	20.50	1.183	0.08	0.344	0.407	
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 7	Reduced	26865	831.5	1	20.72	21.50	1.197	-0.06	0.228	0.273	
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 1	DSI 7	Reduced	26865	831.5	1	19.77	20.50	1.183	0.09	0.206	0.244	
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	26865	831.5	1	20.72	21.50	1.197	-0.01	1.080	1.292	
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	26865	831.5	2	20.72	21.50	1.197	-0.06	0.843	1.009	
	LTE Band 26	15M	QPSK	36	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	26865	831.5	1	19.77	20.50	1.183	-0.1	0.776	0.918	
	LTE Band 26	15M	QPSK	75	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	26865	831.5	1	19.68	20.50	1.208	-0.1	0.778	0.940	
EN-DC																					
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant1	DSI 3	Reduced	26865	831.5	1	18.81	19.50	1.172	0.02	0.298	0.349	
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant1	DSI 3	Reduced	26865	831.5	1	17.63	18.50	1.222	-0.13	0.233	0.285	
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant1	DSI 3	Reduced	26865	831.5	1	18.81	19.50	1.172	-0.08	0.482	0.565	
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant1	DSI 3	Reduced	26865	831.5	1	17.63	18.50	1.222	0.14	0.370	0.452	
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant1	DSI 7	Reduced	26865	831.5	1	18.75	19.00	1.059	-0.09	0.135	0.143	
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant1	DSI 7	Reduced	26865	831.5	1	17.65	18.00	1.084	0.08	0.118	0.128	
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant1	DSI 7	Reduced	26865	831.5	1	18.75	19.00	1.059	-0.06	0.078	0.083	
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant1	DSI 7	Reduced	26865	831.5	1	17.65	18.00	1.084	0.09	0.071	0.077	
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant1	DSI 7	Reduced	26865	831.5	1	18.75	19.00	1.059	-0.07	0.396	0.419	
	LTE Band 26	15M	QPSK	36	0	-	Top Side	5mm	Ant1	DSI 7	Reduced	26865	831.5	1	17.65	18.00	1.084	-0.1	0.267	0.289	
EN-DC																					
	LTE Band 5	10M	QPSK	1	0	-	Front	5mm	Ant0	DSI 3	Reduced	20525	836.5	1	18.40	20.00	1.445	0.07	0.267	0.386	
	LTE Band 5	10M	QPSK	25	0	-	Front	5mm	Ant0	DSI 3	Reduced	20525	836.5	1	17.41	19.00	1.442	-0.13	0.213	0.307	
43	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant0	DSI 3	Reduced	20525	836.5	1	18.40	20.00	1.445	-0.08	0.434	0.627	
	LTE Band 5	10M	QPSK	25	0	-	Back	5mm	Ant0	DSI 3	Reduced	20525	836.5	1	17.41	19.00	1.442	0.11	0.364	0.525	
	LTE Band 5	10M	QPSK	1	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	20525	836.5	1	17.70	19.50	1.514	0.12	0.066	0.100	
	LTE Band 5	10M	QPSK	25	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	20525	836.5	1	16.69	18.50	1.517	0.16	0.051	0.077	
	LTE Band 5	10M	QPSK	1	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	20525	836.5	1	17.70	19.50	1.514	-0.05	0.179	0.271	
	LTE Band 5	10M	QPSK	25	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	20525	836.5	1	16.69	18.50	1.517	0.07	0.141	0.214	
	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	20525	836.5	1	17.70	19.50	1.514	-0.02	0.413	0.625	
	LTE Band 5	10M	QPSK	25	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	20525	836.5	1	16.69	18.50	1.517	0.02	0.340	0.516	
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHZ	Front	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	23.08	24.00	1.236	-0.18	0.502	0.620	
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHZ	Front	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	23.07	24.00	1.239	0.05	0.499	0.618	
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHZ	Back	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	23.08	24.00	1.236	0.19	0.741	0.916	
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHZ	Back	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	23.07	24.00	1.239	-0.04	0.777	0.963	
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHZ	Back	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	22.11	23.00	1.227	-0.06	0.736	0.903	
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHZ	Left Side	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	23.08	24.00	1.236	0.04	0.169	0.209	
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHZ	Left Side	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	23.07	24.00	1.239	0.03	0.134	0.166	



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	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	23.08	24.00	1.236	-0.19	0.392	0.484	
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	23.07	24.00	1.239	-0.11	0.360	0.446	
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	23.08	24.00	1.236	-0.1	0.858	1.060	
44	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	23.07	24.00	1.239	-0.04	0.919	1.138	
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 4	Full Power	166300	831.5	1	22.11	23.00	1.227	0.14	0.676	0.830	
EN-DC																					
	FR1 n5	25M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 3	Reduced	167300	836.5	1	21.87	23.00	1.297	-0.1	0.249	0.323	
	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 3	Reduced	167300	836.5	1	21.95	23.00	1.274	0.02	0.287	0.365	
	FR1 n5	25M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 3	Reduced	167300	836.5	1	21.87	23.00	1.297	-0.01	0.338	0.438	
45	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 3	Reduced	167300	836.5	1	21.95	23.00	1.274	-0.08	0.432	0.550	
	FR1 n5	25M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 7	Reduced	167300	836.5	1	20.91	22.00	1.285	0.03	0.113	0.145	
	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 7	Reduced	167300	836.5	1	20.94	22.00	1.276	0.18	0.149	0.190	
	FR1 n5	25M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 7	Reduced	167300	836.5	1	20.91	22.00	1.285	-0.06	0.065	0.084	
	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 7	Reduced	167300	836.5	1	20.94	22.00	1.276	-0.14	0.084	0.107	
	FR1 n5	25M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 7	Reduced	167300	836.5	1	20.91	22.00	1.285	-0.02	0.409	0.526	
	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 7	Reduced	167300	836.5	1	20.94	22.00	1.276	-0.13	0.386	0.493	
1750MHz																					
	WCDMA IV					RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3	Reduced	1413	1732.6	1	18.03	19.00	1.250	0.12	0.396	0.495	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	Reduced	1413	1732.6	1	18.03	19.00	1.250	-0.07	1.040	1.300	
46	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	Reduced	1312	1712.4	1	17.91	19.00	1.285	-0.01	1.080	1.388	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	Reduced	1513	1752.6	1	17.97	19.00	1.268	-0.05	0.958	1.214	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 7	Reduced	1413	1732.6	1	17.26	18.00	1.186	-0.02	0.244	0.289	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 7	Reduced	1413	1732.6	1	17.26	18.00	1.186	-0.03	0.091	0.108	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	Reduced	1413	1732.6	1	17.26	18.00	1.186	0.04	1.130	1.340	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	Reduced	1312	1712.4	1	17.21	18.00	1.199	0.01	1.070	1.283	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	Reduced	1513	1752.6	1	17.24	18.00	1.191	-0.19	1.080	1.287	
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3	Reduced	132322	1745	1	17.62	19.00	1.374	0.17	0.382	0.525	
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3	Reduced	132322	1745	1	16.53	18.00	1.403	-0.13	0.307	0.431	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	132322	1745	1	17.62	19.00	1.374	-0.12	0.963	1.323	
47	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	132072	1720	1	17.59	19.00	1.384	-0.04	1.010	1.397	
	LTE Band 66C	20M	QPSK	1	99	-	Back	5mm	Ant 0	DSI 3	Reduced	132072+132270	1720+1739.8	1	17.56	19.00	1.393	0.03	0.967	1.347	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	132572	1770	1	17.37	19.00	1.455	0.04	0.776	1.129	
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3	Reduced	132322	1745	1	16.53	18.00	1.403	-0.12	0.762	1.069	
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3	Reduced	132072	1720	1	16.46	18.00	1.426	-0.02	0.814	1.160	
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3	Reduced	132572	1770	1	16.40	18.00	1.445	-0.14	0.709	1.025	
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	DSI 3	Reduced	132322	1745	1	16.49	18.00	1.416	-0.18	0.727	1.029	
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 7	Reduced	132322	1745	1	16.45	18.00	1.429	0.17	0.210	0.300	
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 7	Reduced	132322	1745	1	15.57	17.00	1.390	-0.01	0.162	0.225	
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 7	Reduced	132322	1745	1	16.45	18.00	1.429	0.14	0.072	0.103	
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 7	Reduced	132322	1745	1	15.57	17.00	1.390	0.17	0.058	0.081	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	132322	1745	1	16.45	18.00	1.429	-0.01	0.849	1.213	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	132072	1720	1	16.41	18.00	1.442	-0.04	0.906	1.307	
	LTE Band 66C	20M	QPSK	1	99	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	132072+132270	1720+1739.8	1	16.31	18.00	1.476	-0.04	0.812	1.198	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	132572	1770	1	16.35	18.00	1.462	-0.19	0.751	1.098	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	132322	1745	1	15.57	17.00	1.390	-0.09	0.665	0.924	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	132072	1720	1	15.52	17.00	1.406	-0.05	0.706	0.993	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	132572	1770	1	15.38	17.00	1.452	0.01	0.634	0.921	
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	132322	1745	1	15.55	17.00	1.396	-0.16	0.634	0.885	
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	Reduced	132322	1745	1	19.86	21.00	1.300	-0.01	0.581	0.755	
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3	Reduced	132322	1745	1	18.89	20.00	1.291	-0.11	0.519	0.670	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	Reduced	132322	1745	1	19.86	21.00	1.300	0.09	0.922	1.199	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	Reduced	132072	1720	1	19.81	21.00	1.315	-0.17	0.838	1.102	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	Reduced	132572	1770	1	19.67	21.00	1.358	0.08	0.928	1.261	
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	Reduced	132322	1745	1	18.89	20.00	1.291	0.12	0.735	0.949	
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	Reduced	132072	1720	1	18.88	20.00	1.294	-0.07	0.729	0.943	



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	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	Reduced	132572	1770	1	18.68	20.00	1.355	0.06	0.795	1.077
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	DSI 3	Reduced	132322	1745	1	18.86	20.00	1.300	-0.03	0.723	0.940
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 7	Reduced	132322	1745	1	17.82	19.50	1.472	0.09	0.124	0.183
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 7	Reduced	132322	1745	1	16.86	18.50	1.459	-0.04	0.108	0.158
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 7	Reduced	132322	1745	1	17.82	19.50	1.472	0.12	0.026	0.038
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 7	Reduced	132322	1745	1	16.86	18.50	1.459	-0.08	0.024	0.035
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	132322	1745	1	17.82	19.50	1.472	0.01	0.756	1.113
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	132072	1720	1	17.78	19.50	1.486	-0.02	0.668	0.993
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	132572	1770	1	17.67	19.50	1.524	-0.09	0.872	1.329
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	132572	1770	2	17.67	19.50	1.524	0.03	0.444	0.677
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	132322	1745	1	16.86	18.50	1.459	0.15	0.692	1.009
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	132072	1720	1	16.81	18.50	1.476	0.01	0.592	0.874
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	132572	1770	1	16.65	18.50	1.531	0.17	0.724	1.109
	LTE Band 66	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	132322	1745	1	16.78	18.50	1.486	-0.18	0.620	0.921
EN-DC																				
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant0	DSI 3	Reduced	132322	1745	1	15.17	16.50	1.358	-0.07	0.215	0.292
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant0	DSI 3	Reduced	132322	1745	1	14.08	15.50	1.387	0.01	0.172	0.239
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant0	DSI 3	Reduced	132322	1745	1	15.17	16.50	1.358	-0.02	0.542	0.736
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant0	DSI 3	Reduced	132322	1745	1	14.08	15.50	1.387	-0.1	0.429	0.595
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	132322	1745	1	14.36	16.00	1.459	-0.08	0.122	0.178
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	132322	1745	1	13.26	15.00	1.493	-0.08	0.095	0.142
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	132322	1745	1	14.36	16.00	1.459	-0.07	0.041	0.060
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	132322	1745	1	13.26	15.00	1.493	-0.17	0.033	0.049
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	132322	1745	1	14.36	16.00	1.459	-0.05	0.492	0.718
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	132322	1745	1	13.26	15.00	1.493	0.06	0.386	0.576
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant1	DSI 3	Reduced	132322	1745	1	17.21	18.00	1.199	-0.13	0.297	0.356
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant1	DSI 3	Reduced	132322	1745	1	16.29	17.00	1.178	0.14	0.266	0.313
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant1	DSI 3	Reduced	132322	1745	1	17.21	18.00	1.199	0.09	0.472	0.566
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant1	DSI 3	Reduced	132322	1745	1	16.29	17.00	1.178	0.16	0.376	0.443
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant1	DSI 7	Reduced	132322	1745	1	14.85	16.00	1.303	-0.13	0.071	0.093
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant1	DSI 7	Reduced	132322	1745	1	13.93	15.00	1.279	-0.16	0.062	0.079
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant1	DSI 7	Reduced	132322	1745	1	14.85	16.00	1.303	-0.05	0.015	0.020
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant1	DSI 7	Reduced	132322	1745	1	13.93	15.00	1.279	-0.08	0.013	0.017
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant1	DSI 7	Reduced	132322	1745	1	14.85	16.00	1.303	0.09	0.431	0.562
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant1	DSI 7	Reduced	132322	1745	1	13.93	15.00	1.279	0.04	0.395	0.505
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3	Reduced	340500	1702.5	1	20.49	21.50	1.262	0.19	0.462	0.583
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3	Reduced	340500	1702.5	1	20.55	21.50	1.245	0.07	0.377	0.469
48	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	Reduced	340500	1702.5	1	20.49	21.50	1.262	0.06	1.100	1.388
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	Reduced	340500	1702.5	1	20.55	21.50	1.245	0.18	0.986	1.227
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	Reduced	340500	1702.5	1	20.22	21.50	1.343	-0.12	0.975	1.309
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 7	Reduced	340500	1702.5	1	19.46	20.50	1.271	0.11	0.241	0.306
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 7	Reduced	340500	1702.5	1	19.62	20.50	1.225	-0.08	0.197	0.241
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 7	Reduced	340500	1702.5	1	19.46	20.50	1.271	0.01	0.059	0.075
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 7	Reduced	340500	1702.5	1	19.62	20.50	1.225	0.12	0.051	0.062
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	340500	1702.5	1	19.46	20.50	1.271	-0.14	1.010	1.283
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	340500	1702.5	1	19.62	20.50	1.225	-0.08	0.998	1.222
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	340500	1702.5	1	19.23	20.50	1.340	-0.08	0.952	1.275
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3	Reduced	349000	1745	1	20.20	22.00	1.514	-0.08	0.384	0.581
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3	Reduced	349000	1745	1	20.46	22.00	1.426	-0.01	0.410	0.584
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	Reduced	349000	1745	1	20.20	22.00	1.514	-0.16	0.911	1.382
49	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	Reduced	349000	1745	1	20.46	22.00	1.426	-0.17	0.993	1.387
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	Reduced	349000	1745	1	20.36	22.00	1.459	0.13	0.762	1.112
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 7	Reduced	349000	1745	1	19.46	21.00	1.426	-0.17	0.201	0.287
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 7	Reduced	349000	1745	1	19.56	21.00	1.393	0.16	0.228	0.318
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 7	Reduced	349000	1745	1	19.46	21.00	1.426	0.15	0.068	0.097
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 7	Reduced	349000	1745	1	19.56	21.00	1.393	0.09	0.082	0.114



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FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	349000	1745	1	19.46	21.00	1.426	0.1	0.956	1.363	
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	349000	1745	1	19.56	21.00	1.393	0.14	0.871	1.213	
FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	349000	1745	1	19.35	21.00	1.462	-0.17	0.717	1.048	
EN-DC																				
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant0	DSI 3	Reduced	349000	1745	1	16.91	18.50	1.442	-0.13	0.201	0.290	
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant0	DSI 3	Reduced	349000	1745	1	17.10	18.50	1.380	0.04	0.215	0.297	
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant0	DSI 3	Reduced	349000	1745	1	16.91	18.50	1.442	-0.01	0.499	0.720	
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant0	DSI 3	Reduced	349000	1745	1	17.10	18.50	1.380	-0.13	0.551	0.761	
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant0	DSI 7	Reduced	349000	1745	1	14.48	16.00	1.419	-0.03	0.116	0.165	
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant0	DSI 7	Reduced	349000	1745	1	14.71	16.00	1.346	-0.04	0.132	0.178	
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant0	DSI 7	Reduced	349000	1745	1	14.48	16.00	1.419	-0.05	0.039	0.055	
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant0	DSI 7	Reduced	349000	1745	1	14.71	16.00	1.346	-0.03	0.047	0.063	
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant0	DSI 7	Reduced	349000	1745	1	14.48	16.00	1.419	-0.18	0.500	0.710	
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant0	DSI 7	Reduced	349000	1745	1	14.71	16.00	1.346	-0.15	0.591	0.795	
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 3	Reduced	349000	1745	1	19.47	20.50	1.268	0.15	0.214	0.271	
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 3	Reduced	349000	1745	1	19.51	20.50	1.256	-0.01	0.256	0.322	
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 3	Reduced	349000	1745	1	19.47	20.50	1.268	0.16	0.308	0.390	
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 3	Reduced	349000	1745	1	19.51	20.50	1.256	-0.06	0.414	0.520	
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 7	Reduced	349000	1745	1	18.06	19.00	1.242	-0.07	0.052	0.065	
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 7	Reduced	349000	1745	1	18.09	19.00	1.233	0.14	0.068	0.084	
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 7	Reduced	349000	1745	1	18.06	19.00	1.242	0.06	0.031	0.038	
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 7	Reduced	349000	1745	1	18.09	19.00	1.233	0.14	0.013	0.016	
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 7	Reduced	349000	1745	1	18.06	19.00	1.242	-0.16	0.350	0.435	
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 7	Reduced	349000	1745	1	18.09	19.00	1.233	-0.05	0.468	0.577	

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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	Reduced	661	1880	1	22.58	24.00	1.387	0.01	0.433	0.600
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3	Reduced	661	1880	1	22.58	24.00	1.387	-0.02	0.982	1.362
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3	Reduced	512	1850.2	1	22.54	24.00	1.400	-0.13	0.973	1.362
50	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3	Reduced	810	1909.8	1	22.49	24.00	1.416	-0.06	0.987	1.397
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	DSI 7	Reduced	661	1880	1	22.58	23.50	1.236	0.03	0.404	0.499
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	DSI 7	Reduced	661	1880	1	22.58	23.50	1.236	-0.06	0.114	0.141
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 7	Reduced	661	1880	1	22.58	23.50	1.236	0.02	1.075	1.329
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 7	Reduced	512	1850.2	1	22.54	23.50	1.247	-0.03	1.080	1.347
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 7	Reduced	810	1909.8	1	22.49	23.50	1.262	-0.04	1.060	1.338
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3	Reduced	9400	1880	1	17.85	19.00	1.303	-0.08	0.414	0.540
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	Reduced	9400	1880	1	17.85	19.00	1.303	-0.02	0.923	1.203
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	Reduced	9262	1852.4	1	17.82	19.00	1.312	0.15	0.960	1.260
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	Reduced	9538	1907.6	1	17.76	19.00	1.330	-0.05	0.938	1.248
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 7	Reduced	9400	1880	1	17.85	19.00	1.303	-0.12	0.339	0.442
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 7	Reduced	9400	1880	1	17.85	19.00	1.303	-0.01	0.093	0.121
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	Reduced	9400	1880	1	17.85	19.00	1.303	0.09	0.992	1.293
51	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	Reduced	9262	1852.4	1	17.82	19.00	1.312	0.14	1.030	1.352
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	Reduced	9538	1907.6	1	17.76	19.00	1.330	0.17	0.913	1.215
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3	Reduced	26340	1880	1	16.94	18.50	1.432	-0.11	0.358	0.513
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3	Reduced	26340	1880	1	15.84	17.50	1.466	-0.18	0.290	0.425
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	26340	1880	1	16.94	18.50	1.432	-0.04	0.845	1.210
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	26140	1860	1	16.92	18.50	1.439	0.04	0.874	1.258
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	26590	1905	1	16.86	18.50	1.459	-0.08	0.814	1.187
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3	Reduced	26340	1880	1	15.84	17.50	1.466	-0.14	0.674	0.988
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3	Reduced	26140	1860	1	15.76	17.50	1.493	0.11	0.698	1.042
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3	Reduced	26590	1905	1	15.71	17.50	1.510	-0.15	0.654	0.988
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	DSI 3	Reduced	26340	1880	1	15.81	17.50	1.476	-0.15	0.664	0.980
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 7	Reduced	26340	1880	1	16.94	18.50	1.432	-0.08	0.287	0.411

Sporton International Inc. (Kunshan)

TEL : 86-512-57900158 / FAX : 86-512-57900958

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	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 7	Reduced	26340	1880	1	15.84	17.50	1.466	-0.11	0.225	0.330
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 7	Reduced	26340	1880	1	16.94	18.50	1.432	0.12	0.075	0.107
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 7	Reduced	26340	1880	1	15.84	17.50	1.466	0.11	0.060	0.088
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	26340	1880	1	16.94	18.50	1.432	-0.03	0.833	1.193
52	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	26140	1860	1	16.92	18.50	1.439	0.01	0.892	1.283
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	26590	1905	1	16.86	18.50	1.459	-0.02	0.783	1.142
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	26340	1880	1	15.84	17.50	1.466	-0.11	0.660	0.967
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	26140	1860	1	15.76	17.50	1.493	-0.09	0.702	1.048
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	26590	1905	1	15.71	17.50	1.510	-0.18	0.615	0.929
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	26340	1880	1	15.81	17.50	1.476	0.14	0.645	0.952
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	Reduced	26340	1880	1	17.76	19.00	1.330	-0.13	0.564	0.750
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3	Reduced	26340	1880	1	16.87	18.00	1.297	0.02	0.439	0.569
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	Reduced	26340	1880	1	17.76	19.00	1.330	0.02	0.928	1.235
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	Reduced	26140	1860	1	17.75	19.00	1.334	0.01	0.944	1.259
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	Reduced	26590	1905	1	17.73	19.00	1.340	-0.11	0.871	1.167
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	Reduced	26340	1880	1	16.87	18.00	1.297	-0.04	0.713	0.925
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	Reduced	26140	1860	1	16.81	18.00	1.315	-0.1	0.703	0.925
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	Reduced	26590	1905	1	16.65	18.00	1.365	0.15	0.618	0.843
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 1	DSI 3	Reduced	26340	1880	1	16.83	18.00	1.309	-0.03	0.744	0.974
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 7	Reduced	26340	1880	1	16.22	17.50	1.343	-0.01	0.138	0.185
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 7	Reduced	26340	1880	1	15.29	16.50	1.321	-0.02	0.104	0.137
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 7	Reduced	26340	1880	1	16.22	17.50	1.343	-0.04	0.030	0.040
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 7	Reduced	26340	1880	1	15.29	16.50	1.321	0.14	0.025	0.033
	LTE Band 25	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	26340	1880	1	16.22	17.50	1.343	-0.06	0.935	1.255
	LTE Band 25	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	26140	1860	1	16.19	17.50	1.352	0.04	0.868	1.174
	LTE Band 25	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	26590	1905	1	16.18	17.50	1.355	0.13	0.812	1.100
	LTE Band 25	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	26340	1880	1	15.29	16.50	1.321	0.02	0.763	1.008
	LTE Band 25	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	26140	1860	1	15.25	16.50	1.334	-0.07	0.723	0.964
	LTE Band 25	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	26590	1905	1	15.12	16.50	1.374	0.02	0.714	0.981
	LTE Band 25	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 7	Reduced	26340	1880	1	15.27	16.50	1.327	0.08	0.731	0.970

EN-DC

	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant0	DSI 3	Reduced	26340	1880	1	15.32	16.50	1.312	-0.12	0.229	0.300
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant0	DSI 3	Reduced	26340	1880	1	14.42	15.50	1.282	0.01	0.186	0.239
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant0	DSI 3	Reduced	26340	1880	1	15.32	16.50	1.312	-0.06	0.540	0.709
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant0	DSI 3	Reduced	26340	1880	1	14.42	15.50	1.282	-0.18	0.431	0.553
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	26340	1880	1	13.39	15.00	1.449	0.05	0.168	0.243
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	26340	1880	1	12.48	14.00	1.419	-0.17	0.132	0.187
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	26340	1880	1	13.39	15.00	1.449	-0.1	0.044	0.064
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	26340	1880	1	12.48	14.00	1.419	-0.18	0.035	0.050
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	26340	1880	1	13.39	15.00	1.449	-0.12	0.488	0.707
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	26340	1880	1	12.48	14.00	1.419	0.14	0.387	0.549

	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3	Reduced	376500	1882.5	1	20.69	22.00	1.352	0.13	0.439	0.594
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3	Reduced	376500	1882.5	1	20.79	22.00	1.321	0.08	0.478	0.632
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	Reduced	376500	1882.5	1	20.69	22.00	1.352	0.01	0.866	1.171
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	Reduced	376500	1882.5	1	20.79	22.00	1.321	-0.03	1.040	1.374
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	Reduced	376500	1882.5	1	20.17	22.00	1.524	0.05	0.849	1.294
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 7	Reduced	376500	1882.5	1	20.69	22.00	1.352	-0.11	0.312	0.422
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 7	Reduced	376500	1882.5	1	20.84	22.00	1.306	0.06	0.351	0.458
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 7	Reduced	376500	1882.5	1	20.69	22.00	1.352	0.11	0.091	0.123
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 7	Reduced	376500	1882.5	1	20.84	22.00	1.306	-0.11	0.097	0.127
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	376500	1882.5	1	20.69	22.00	1.352	0.06	0.906	1.225
53	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	376500	1882.5	1	20.84	22.00	1.306	-0.09	1.070	1.398
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	376500	1882.5	2	20.84	22.00	1.306	-0.04	1.040	1.358
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	376500	1882.5	1	20.36	22.00	1.459	-0.05	0.767	1.119

EN-DC

	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant0	DSI 3	Reduced	376500	1882.5	1	17.69	19.00	1.352	-0.02	0.224	0.303
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	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant0	DSI 3	Reduced	376500	1882.5	1	17.70	19.00	1.349	-0.06	0.244	0.329
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant0	DSI 3	Reduced	376500	1882.5	1	17.69	19.00	1.352	-0.11	0.441	0.596
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant0	DSI 3	Reduced	376500	1882.5	1	17.70	19.00	1.349	-0.04	0.530	0.715
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant0	DSI 7	Reduced	376500	1882.5	1	17.69	19.00	1.352	0.12	0.155	0.210
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant0	DSI 7	Reduced	376500	1882.5	1	17.70	19.00	1.349	-0.11	0.174	0.235
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant0	DSI 7	Reduced	376500	1882.5	1	17.69	19.00	1.352	0.08	0.045	0.061
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant0	DSI 7	Reduced	376500	1882.5	1	17.70	19.00	1.349	-0.01	0.048	0.065
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant0	DSI 7	Reduced	376500	1882.5	1	17.69	19.00	1.352	0.13	0.480	0.649
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant0	DSI 7	Reduced	376500	1882.5	1	17.70	19.00	1.349	-0.03	0.532	0.718
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 3	Reduced	376500	1882.5	1	16.63	17.50	1.222	-0.18	0.178	0.217
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 3	Reduced	376500	1882.5	1	16.81	17.50	1.172	0.1	0.205	0.240
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 3	Reduced	376500	1882.5	1	16.63	17.50	1.222	-0.13	0.268	0.327
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 3	Reduced	376500	1882.5	1	16.81	17.50	1.172	0.08	0.326	0.382
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 7	Reduced	376500	1882.5	1	15.65	16.50	1.216	-0.02	0.054	0.066
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 7	Reduced	376500	1882.5	1	15.81	16.50	1.172	-0.06	0.069	0.081
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 7	Reduced	376500	1882.5	1	15.65	16.50	1.216	-0.11	0.013	0.016
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 7	Reduced	376500	1882.5	1	15.81	16.50	1.172	0.12	0.013	0.015
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 7	Reduced	376500	1882.5	1	15.65	16.50	1.216	-0.11	0.361	0.439
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 7	Reduced	376500	1882.5	1	15.81	16.50	1.172	-0.05	0.438	0.513
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3	Reduced	27710	2310	1	17.90	19.00	1.288	-0.13	0.512	0.660
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 0	DSI 3	Reduced	27710	2310	1	16.81	18.00	1.315	-0.01	0.410	0.539
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	27710	2310	1	17.90	19.00	1.288	-0.08	0.945	1.217
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 0	DSI 3	Reduced	27710	2310	1	16.81	18.00	1.315	0.12	0.747	0.982
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3	Reduced	27710	2310	1	16.82	18.00	1.312	-0.19	0.545	0.715
	LTE Band 30	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 7	Reduced	27710	2310	1	15.91	17.00	1.285	-0.04	0.112	0.144
	LTE Band 30	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	DSI 7	Reduced	27710	2310	1	14.77	16.00	1.327	0.13	0.087	0.115
	LTE Band 30	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 7	Reduced	27710	2310	1	15.91	17.00	1.285	-0.02	0.121	0.156
	LTE Band 30	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	DSI 7	Reduced	27710	2310	1	14.77	16.00	1.327	-0.11	0.098	0.130
54	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	27710	2310	1	15.91	17.00	1.285	0.01	0.997	1.281
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	27710	2310	1	14.77	16.00	1.327	-0.03	0.767	1.018
	LTE Band 30	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	27710	2310	1	14.75	16.00	1.334	-0.15	0.758	1.011
EN-DC																				
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant0	DSI 3	Reduced	27710	2310	1	13.82	15.50	1.472	0.02	0.248	0.365
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant0	DSI 3	Reduced	27710	2310	1	12.70	14.50	1.514	0.05	0.198	0.300
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant0	DSI 3	Reduced	27710	2310	1	13.82	15.50	1.472	-0.03	0.457	0.673
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant0	DSI 3	Reduced	27710	2310	1	12.70	14.50	1.514	0.1	0.361	0.546
	LTE Band 30	10M	QPSK	1	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	27710	2310	1	12.80	14.50	1.479	0.02	0.049	0.072
	LTE Band 30	10M	QPSK	25	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	27710	2310	1	11.71	13.50	1.510	-0.07	0.038	0.057
	LTE Band 30	10M	QPSK	1	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	27710	2310	1	12.80	14.50	1.479	0.16	0.053	0.078
	LTE Band 30	10M	QPSK	25	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	27710	2310	1	11.71	13.50	1.510	-0.19	0.043	0.065
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	27710	2310	1	12.80	14.50	1.479	-0.08	0.439	0.649
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	27710	2310	1	11.71	13.50	1.510	-0.05	0.338	0.510
EN-DC																				
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant0	DSI 3	Reduced	462000	2310	1	16.22	18.00	1.507	0.03	0.218	0.328
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant0	DSI 3	Reduced	462000	2310	1	16.42	18.00	1.439	0.17	0.211	0.304
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant0	DSI 3	Reduced	462000	2310	1	16.22	18.00	1.507	-0.08	0.396	0.597
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant0	DSI 3	Reduced	462000	2310	1	16.42	18.00	1.439	0.1	0.354	0.509
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant0	DSI 7	Reduced	462000	2310	1	14.61	16.50	1.545	-0.18	0.051	0.079
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant0	DSI 7	Reduced	462000	2310	1	14.59	16.50	1.552	0.12	0.054	0.084
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant0	DSI 7	Reduced	462000	2310	1	14.61	16.50	1.545	0.16	0.061	0.094
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant0	DSI 7	Reduced	462000	2310	1	14.59	16.50	1.552	0.06	0.054	0.084
55	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant0	DSI 7	Reduced	462000	2310	1	14.61	16.50	1.545	-0.06	0.406	0.627
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	5mm	Ant0	DSI 7	Reduced	462000	2310	1	14.59	16.50	1.552	0.04	0.398	0.618
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 3	Reduced	462000	2310	1	12.92	14.00	1.282	-0.05	0.125	0.160
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant1	DSI 3	Reduced	462000	2310	1	13.01	14.00	1.256	-0.18	0.127	0.160



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FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 3	Reduced	462000	2310	1	12.92	14.00	1.282	-0.04	0.409	0.524
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant1	DSI 3	Reduced	462000	2310	1	13.01	14.00	1.256	-0.06	0.446	0.560
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 7	Reduced	462000	2310	1	12.92	14.00	1.282	0.17	0.063	0.081
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant1	DSI 7	Reduced	462000	2310	1	13.00	14.00	1.259	-0.16	0.065	0.082
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 7	Reduced	462000	2310	1	12.92	14.00	1.282	-0.06	0.004	0.005
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant1	DSI 7	Reduced	462000	2310	1	13.00	14.00	1.259	-0.02	0.000	0.000
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 7	Reduced	462000	2310	1	12.92	14.00	1.282	0.12	0.438	0.562
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 7	Reduced	462000	2310	2	12.92	14.00	1.282	0.08	0.320	0.410
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	5mm	Ant1	DSI 7	Reduced	462000	2310	1	13.00	14.00	1.259	-0.08	0.443	0.558

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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	Reduced	21100	2535	1	21.77	23.00	1.327	-	-	0.18	0.617	0.819
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3	Reduced	20850	2510	1	21.75	23.00	1.334	-	-	0.18	0.564	0.752
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3	Reduced	21350	2560	1	21.71	23.00	1.346	-	-	0.13	0.626	0.843
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3	Reduced	21100	2535	1	20.84	22.00	1.306	-	-	-0.11	0.488	0.637
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 0	DSI 3	Reduced	21100	2535	1	20.79	22.00	1.321	-	-	0.08	0.483	0.638
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	21100	2535	1	21.77	23.00	1.327	-	-	0.13	0.998	1.325
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	20850	2510	1	21.75	23.00	1.334	-	-	0.1	0.926	1.235
56	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	21350	2560	1	21.71	23.00	1.346	-	-	0.03	1.020	1.373
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	21350	2560	2	21.71	23.00	1.346	-	-	0.05	0.980	1.319
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3	Reduced	21100	2535	1	20.84	22.00	1.306	-	-	-0.04	0.796	1.040
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3	Reduced	20850	2510	1	20.70	22.00	1.349	-	-	0.17	0.747	1.008
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3	Reduced	21350	2560	1	20.77	22.00	1.327	-	-	-0.15	0.819	1.087
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 0	DSI 3	Reduced	21100	2535	1	20.79	22.00	1.321	-	-	-0.03	0.787	1.040
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 7	Reduced	21100	2535	1	21.77	23.00	1.327	-	-	-0.16	0.433	0.575
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 7	Reduced	21100	2535	1	20.84	22.00	1.306	-	-	-0.03	0.348	0.455
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 7	Reduced	21100	2535	1	21.77	23.00	1.327	-	-	0.05	0.143	0.190
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 7	Reduced	21100	2535	1	20.84	22.00	1.306	-	-	-0.02	0.141	0.184
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	21100	2535	1	21.77	23.00	1.327	-	-	0.15	0.787	1.045
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	20850	2510	1	21.75	23.00	1.334	-	-	0.16	0.783	1.044
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	21350	2560	1	21.71	23.00	1.346	-	-	-0.14	0.778	1.047
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	21100	2535	1	20.84	22.00	1.306	-	-	-0.14	0.622	0.812
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	20850	2510	1	20.70	22.00	1.349	-	-	-0.07	0.622	0.839
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	21350	2560	1	20.77	22.00	1.327	-	-	-0.12	0.622	0.826
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	21100	2535	1	20.79	22.00	1.321	-	-	0.01	0.626	0.827
EN-DC																						
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant0	DSI 3	Reduced	21100	2535	1	17.74	19.50	1.500	-	-	-0.05	0.257	0.385
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant0	DSI 3	Reduced	21100	2535	1	16.85	18.50	1.462	-	-	-0.02	0.203	0.297
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant0	DSI 3	Reduced	21100	2535	1	17.74	19.50	1.500	-	-	-0.03	0.415	0.622
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant0	DSI 3	Reduced	21100	2535	1	16.85	18.50	1.462	-	-	-0.05	0.331	0.484
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	21100	2535	1	17.74	19.50	1.500	-	-	-0.15	0.180	0.270
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant0	DSI 7	Reduced	21100	2535	1	16.85	18.50	1.462	-	-	0.17	0.145	0.212
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	21100	2535	1	17.74	19.50	1.500	-	-	0.05	0.059	0.088
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant0	DSI 7	Reduced	21100	2535	1	16.85	18.50	1.462	-	-	0.04	0.059	0.086
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	21100	2535	1	17.74	19.50	1.500	-	-	-0.12	0.328	0.492
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant0	DSI 7	Reduced	21100	2535	1	16.85	18.50	1.462	-	-	-0.14	0.259	0.379
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant1	DSI 3	Reduced	21100	2535	1	13.44	14.00	1.138	-	-	0.1	0.101	0.115
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant1	DSI 3	Reduced	21100	2535	1	13.39	14.00	1.151	-	-	0.07	0.080	0.092
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant1	DSI 3	Reduced	21100	2535	1	13.44	14.00	1.138	-	-	-0.07	0.417	0.474
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant1	DSI 3	Reduced	21100	2535	1	13.39	14.00	1.151	-	-	-0.04	0.296	0.341
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant1	DSI 7	Reduced	21100	2535	1	13.44	14.00	1.138	-	-	-0.17	0.101	0.115
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant1	DSI 7	Reduced	21100	2535	1	13.39	14.00	1.151	-	-	-0.02	0.082	0.094
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant1	DSI 7	Reduced	21100	2535	1	13.44	14.00	1.138	-	-	0.01	0.003	0.003
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant1	DSI 7	Reduced	21100	2535	1	13.39	14.00	1.151	-	-	0.14	0.000	0.000

Sporton International Inc. (Kunshan)

TEL : 86-512-57900158 / FAX : 86-512-57900958

FCC ID : IHD56AA3

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FCC SAR Test Report

Report No. : FA1D1722

	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant1	DSI 7	Reduced	21100	2535	1	13.44	14.00	1.138	-	-	-0.18	0.329	0.374
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant1	DSI 7	Reduced	21100	2535	1	13.39	14.00	1.151	-	-	0.16	0.263	0.303
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	-0.18	0.436	0.586
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	21.76	23.00	1.330	62.9	1.006	-0.05	0.364	0.487
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	-0.19	0.712	0.957
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 0	DSI 2	Full Power	40620+40818	2593+2612.8	1	22.61	24.00	1.377	62.9	1.006	0.04	0.684	0.948
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 2	Full Power	39750	2506	1	22.56	24.00	1.393	62.9	1.006	0.03	0.522	0.732
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 2	Full Power	40185	2549.5	1	22.63	24.00	1.371	62.9	1.006	-0.15	0.540	0.745
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 2	Full Power	41055	2636.5	1	22.71	24.00	1.346	62.9	1.006	0.05	0.552	0.747
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 2	Full Power	41490	2680	1	22.67	24.00	1.358	62.9	1.006	0.16	0.586	0.801
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	21.76	23.00	1.330	62.9	1.006	-0.03	0.558	0.747
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 2	Full Power	39750	2506	1	21.51	23.00	1.409	62.9	1.006	0.03	0.560	0.794
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 2	Full Power	40185	2549.5	1	21.62	23.00	1.374	62.9	1.006	0.02	0.531	0.734
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 2	Full Power	41055	2636.5	1	21.75	23.00	1.334	62.9	1.006	0.04	0.521	0.699
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 2	Full Power	41490	2680	1	21.68	23.00	1.355	62.9	1.006	-0.05	0.498	0.679
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	21.73	23.00	1.340	62.9	1.006	0.14	0.604	0.814
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	0.01	0.349	0.469
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	21.76	23.00	1.330	62.9	1.006	0.07	0.270	0.361
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	-0.17	0.095	0.128
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	21.76	23.00	1.330	62.9	1.006	-0.07	0.072	0.096
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	0.01	0.539	0.725
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 2	Full Power	39750	2506	1	22.56	24.00	1.393	62.9	1.006	-0.03	0.458	0.642
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 2	Full Power	40185	2549.5	1	22.63	24.00	1.371	62.9	1.006	0.06	0.473	0.652
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 2	Full Power	41055	2636.5	1	22.71	24.00	1.346	62.9	1.006	0.04	0.512	0.693
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 2	Full Power	41490	2680	1	22.67	24.00	1.358	62.9	1.006	-0.01	0.516	0.705
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	21.76	23.00	1.330	62.9	1.006	0.14	0.421	0.563
57	LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 2	Full Power	40620	2593	1	25.66	27.00	1.361	42.9	1.009	-0.03	0.951	1.306
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 0	DSI 3	Reduced	518598	2592.99	1	23.57	24.00	1.104	-	-	-0.1	0.458	0.506
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 0	DSI 3	Reduced	518598	2592.99	1	23.59	24.00	1.099	-	-	0.04	0.626	0.688
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 0	DSI 3	Reduced	518598	2592.99	1	23.57	24.00	1.104	-	-	-0.08	0.617	0.681
58	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 0	DSI 3	Reduced	518598	2592.99	1	23.59	24.00	1.099	-	-	0.04	1.020	1.121
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 0	DSI 3	Reduced	509202	2546.01	1	23.36	24.00	1.159	-	-	0.03	0.812	0.941
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 0	DSI 3	Reduced	528000	2640	1	23.28	24.00	1.180	-	-	0.06	0.863	1.019
	FR1 n41-HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 0	DSI 3	Reduced	518598	2592.99	1	23.43	24.00	1.140	-	-	0.08	0.815	0.929
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 0	DSI 7	Reduced	518598	2592.99	1	23.07	24.00	1.239	-	-	0.17	0.265	0.328
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 0	DSI 7	Reduced	518598	2592.99	1	23.09	24.00	1.233	-	-	-0.16	0.462	0.570
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 0	DSI 7	Reduced	518598	2592.99	1	23.07	24.00	1.239	-	-	-0.19	0.077	0.095
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 0	DSI 7	Reduced	518598	2592.99	1	23.09	24.00	1.233	-	-	-0.02	0.120	0.148
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	518598	2592.99	1	23.07	24.00	1.239	-	-	0.07	0.462	0.572
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 0	DSI 7	Reduced	518598	2592.99	1	23.09	24.00	1.233	-	-	-0.14	0.625	0.771
EN-DC																						
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant0	DSI 3	Reduced	518598	2592.99	1	19.33	20.50	1.309	-	-	0.08	0.224	0.293
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant0	DSI 3	Reduced	518598	2592.99	1	19.42	20.50	1.282	-	-	-0.07	0.374	0.480
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant0	DSI 3	Reduced	518598	2592.99	1	19.33	20.50	1.309	-	-	-0.1	0.301	0.394
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant0	DSI 3	Reduced	518598	2592.99	1	19.42	20.50	1.282	-	-	0.04	0.498	0.639
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant0	DSI 7	Reduced	518598	2592.99	1	19.33	20.50	1.309	-	-	-0.05	0.129	0.169
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant0	DSI 7	Reduced	518598	2592.99	1	19.42	20.50	1.282	-	-	0.13	0.226	0.290
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant0	DSI 7	Reduced	518598	2592.99	1	19.33	20.50	1.309	-	-	-0.12	0.038	0.050
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant0	DSI 7	Reduced	518598	2592.99	1	19.42	20.50	1.282	-	-	-0.01	0.059	0.076
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant0	DSI 7	Reduced	518598	2592.99	1	19.33	20.50	1.309	-	-	-0.05	0.226	0.296
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant0	DSI 7	Reduced	518598	2592.99	1	19.42	20.50	1.282	-	-	0.08	0.330	0.423
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant1	DSI 3	Reduced	518598	2592.99	1	14.31	15.00	1.17	-	-	0.02	0.121	0.142
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant1	DSI 3	Reduced	518598	2592.99	1	14.47	15.00	1.130	-	-	0.14	0.118	0.133
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant1	DSI 3	Reduced	518598	2592.99	1	14.31	15.00	1.172	-	-	-0.16	0.430	0.504
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant1	DSI 3	Reduced	518598	2592.99	1	14.47	15.00	1.130	-	-	0.08	0.450	0.508
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant1	DSI 7	Reduced	518598	2592.99	1	14.31	15.00	1.172	-	-</			



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	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant1	DSI 7	Reduced	518598	2592.99	1	14.47	15.00	1.130	-	-	-0.17	0.141	0.159
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant1	DSI 7	Reduced	518598	2592.99	1	14.31	15.00	1.172	-	-	0.18	0.000	0.000
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant1	DSI 7	Reduced	518598	2592.99	1	14.47	15.00	1.130	-	-	-0.08	0.005	0.006
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant1	DSI 7	Reduced	518598	2592.99	1	14.31	15.00	1.172	-	-	0.15	0.381	0.447
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant1	DSI 7	Reduced	518598	2592.99	1	14.47	15.00	1.130	-	-	0.08	0.347	0.392

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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)
3300-4100MHz																						
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 3	Reduced	56150	3641	1	19.39	20.50	1.291	62.9	1.006	0.11	0.439	0.570
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3	Reduced	56150	3641	1	18.31	19.50	1.315	62.9	1.006	-0.11	0.346	0.458
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	Reduced	56150	3641	1	19.39	20.50	1.291	62.9	1.006	0.11	0.836	1.086
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	Reduced	55340	3560	1	19.04	20.50	1.400	62.9	1.006	-0.07	0.716	1.008
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	Reduced	55830	3609	1	19.11	20.50	1.377	62.9	1.006	0.12	0.885	1.226
59	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	Reduced	56640	3690	1	19.19	20.50	1.352	62.9	1.006	-0.14	0.937	1.274
	LTE Band 48C	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	Reduced	56640+56442	3690+3670.2	1	19.51	20.50	1.256	62.9	1.006	0.07	0.899	1.136
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	Reduced	56150	3641	1	18.31	19.50	1.315	62.9	1.006	0.12	0.652	0.863
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	Reduced	55340	3560	1	18.18	19.50	1.355	62.9	1.006	-0.05	0.591	0.806
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	Reduced	55830	3609	1	18.23	19.50	1.340	62.9	1.006	0.08	0.615	0.829
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	Reduced	56640	3690	1	18.18	19.50	1.355	62.9	1.006	0.04	0.596	0.813
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 2	DSI 3	Reduced	56150	3641	1	18.16	19.50	1.361	62.9	1.006	-0.07	0.645	0.883
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 7	Reduced	56150	3641	1	19.00	20.00	1.259	62.9	1.006	0.17	0.087	0.110
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 7	Reduced	56150	3641	1	17.89	19.00	1.291	62.9	1.006	-0.02	0.068	0.088
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI 7	Reduced	56150	3641	1	19.00	20.00	1.259	62.9	1.006	-0.12	0.140	0.177
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	DSI 7	Reduced	56150	3641	1	17.89	19.00	1.291	62.9	1.006	-0.14	0.108	0.140
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 7	Reduced	56150	3641	1	19.00	20.00	1.259	62.9	1.006	-0.16	0.756	0.957
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 7	Reduced	55340	3560	1	18.81	20.00	1.315	62.9	1.006	-0.11	0.634	0.839
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 7	Reduced	55830	3609	1	18.85	20.00	1.303	62.9	1.006	-0.16	0.814	1.067
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 7	Reduced	56640	3690	1	18.84	20.00	1.306	62.9	1.006	0.04	0.906	1.190
	LTE Band 48C	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 7	Reduced	56640+56442	3690+3670.2	1	18.96	20.00	1.271	62.9	1.006	-0.07	0.867	1.108
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 7	Reduced	56150	3641	1	17.89	19.00	1.291	62.9	1.006	-0.17	0.591	0.768
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 7	Reduced	55340	3560	1	17.60	19.00	1.380	62.9	1.006	-0.06	0.512	0.711
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 7	Reduced	55830	3609	1	17.68	19.00	1.355	62.9	1.006	-0.06	0.598	0.815
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 7	Reduced	56640	3690	1	17.88	19.00	1.294	62.9	1.006	0.03	0.586	0.763
	LTE Band 48	20M	QPSK	100	0	-	Top Side	5mm	Ant 2	DSI 7	Reduced	56150	3641	1	17.80	19.00	1.318	62.9	1.006	0.05	0.578	0.767
EN-DC																						
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant2	DSI 3	Reduced	56150	3641	1	16.26	17.00	1.186	62.9	1.006	0.07	0.226	0.270
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant2	DSI 3	Reduced	56150	3641	1	15.10	16.00	1.230	62.9	1.006	0.12	0.178	0.220
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant2	DSI 3	Reduced	56150	3641	1	16.26	17.00	1.186	62.9	1.006	-0.18	0.430	0.513
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant2	DSI 3	Reduced	56150	3641	1	15.10	16.00	1.230	62.9	1.006	0.17	0.335	0.415
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant2	DSI 7	Reduced	56150	3641	1	15.76	16.50	1.186	62.9	1.006	0.06	0.043	0.051
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant2	DSI 7	Reduced	56150	3641	1	14.71	15.50	1.199	62.9	1.006	-0.04	0.034	0.041
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant2	DSI 7	Reduced	56150	3641	1	15.76	16.50	1.186	62.9	1.006	0.03	0.069	0.082
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant2	DSI 7	Reduced	56150	3641	1	14.71	15.50	1.199	62.9	1.006	-0.08	0.054	0.065
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant2	DSI 7	Reduced	56150	3641	1	15.76	16.50	1.186	62.9	1.006	0.12	0.375	0.447
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant2	DSI 7	Reduced	56150	3641	1	14.71	15.50	1.199	62.9	1.006	-0.04	0.293	0.354
	FR1 n77 Part 270(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3	Reduced	656000	3840	1	17.80	18.50	1.175	-	-	-0.1	0.352	0.414
	FR1 n77 Part 270(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3	Reduced	656000	3840	1	17.88	18.50	1.153	-	-	-0.13	0.512	0.591
	FR1 n77 Part 270(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3	Reduced	656000	3840	1	17.80	18.50	1.175	-	-	-0.19	0.655	0.770
	FR1 n77 Part 270(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3	Reduced	656000	3840	1	17.88	18.50	1.153	-	-	0.15	0.820	0.946
60	FR1 n77 Part 270(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3	Reduced	656000	3840	1	17.05	18.50	1.396	-	-	-0.07	0.977	1.364
	FR1 n77 Part 270(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3	Reduced	656000	3840	2	17.05	18.50	1.396	-	-	-0.05	0.918	1.282
	FR1 n77 Part 270(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 7	Reduced	656000	3840	1	17.80	18.50	1.175	-	-	0.09	0.070	0.082
	FR1 n77 Part 270(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 7	Reduced	656000	3840	1	17.88	18.50	1.153	-	-	-0.08	0.075	0.087
	FR1 n77 Part 270(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 2	DSI 7	Reduced	656000	3840	1	17.80	18.50	1.175	-	-	-0.16	0.116	0.136

Sporton International Inc. (Kunshan)

TEL : 86-512-57900158 / FAX : 86-512-57900958

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FCC SAR Test Report

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FR1 n77 Part 270(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 2	DSI 7	Reduced	656000	3840	1	17.88	18.50	1.153	-	-	-0.16	0.144	0.166
FR1 n77 Part 270(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 7	Reduced	656000	3840	1	17.80	18.50	1.175	-	-	-0.04	0.634	0.745
FR1 n77 Part 270(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 7	Reduced	656000	3840	1	17.88	18.50	1.153	-	-	0.01	0.789	0.910
FR1 n77 Part 270(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 7	Reduced	656000	3840	1	17.05	18.50	1.396	-	-	0.06	0.895	1.250
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3	Reduced	633334	3500.01	1	17.65	18.50	1.216	-	-	0.18	0.360	0.438
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3	Reduced	633334	3500.01	1	18.06	18.50	1.107	-	-	0.01	0.484	0.536
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3	Reduced	633334	3500.01	1	17.65	18.50	1.216	-	-	-0.18	0.604	0.735
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3	Reduced	633334	3500.01	1	18.06	18.50	1.107	-	-	-0.06	0.675	0.747
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 7	Reduced	633334	3500.01	1	17.65	18.50	1.216	-	-	0.08	0.053	0.064
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 7	Reduced	633334	3500.01	1	18.06	18.50	1.107	-	-	-0.07	0.058	0.064
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 2	DSI 7	Reduced	633334	3500.01	1	17.65	18.50	1.216	-	-	-0.03	0.084	0.102
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 2	DSI 7	Reduced	633334	3500.01	1	18.06	18.50	1.107	-	-	0.07	0.106	0.117
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 7	Reduced	633334	3500.01	1	17.65	18.50	1.216	-	-	0.17	0.512	0.623
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 7	Reduced	633334	3500.01	1	18.06	18.50	1.107	-	-	0.02	0.685	0.758
EN-DC																					
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant2	DSI 3	Reduced	656000	3840	1	14.34	15.00	1.164	-	-	0.15	0.169	0.197
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant2	DSI 3	Reduced	656000	3840	1	14.53	15.00	1.114	-	-	-0.15	0.246	0.274
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant2	DSI 3	Reduced	656000	3840	1	14.34	15.00	1.164	-	-	0.09	0.315	0.367
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant2	DSI 3	Reduced	656000	3840	1	14.53	15.00	1.114	-	-	-0.04	0.394	0.439
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant2	DSI 7	Reduced	656000	3840	1	14.34	15.00	1.164	-	-	0.08	0.037	0.043
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant2	DSI 7	Reduced	656000	3840	1	14.53	15.00	1.114	-	-	0.12	0.039	0.043
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant2	DSI 7	Reduced	656000	3840	1	14.34	15.00	1.164	-	-	-0.19	0.061	0.071
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant2	DSI 7	Reduced	656000	3840	1	14.53	15.00	1.114	-	-	0.11	0.076	0.085
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant2	DSI 7	Reduced	656000	3840	1	14.34	15.00	1.164	-	-	-0.18	0.333	0.388
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant2	DSI 7	Reduced	656000	3840	1	14.53	15.00	1.114	-	-	0.12	0.414	0.461
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant2	DSI 3	Reduced	633334	3500.01	1	14.48	15.00	1.127	-	-	-0.02	0.232	0.262
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant2	DSI 3	Reduced	633334	3500.01	1	14.59	15.00	1.099	-	-	-0.02	0.311	0.342
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant2	DSI 3	Reduced	633334	3500.01	1	14.48	15.00	1.127	-	-	0.02	0.401	0.452
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant2	DSI 3	Reduced	633334	3500.01	1	14.59	15.00	1.099	-	-	-0.09	0.434	0.477
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant2	DSI 7	Reduced	633334	3500.01	1	14.48	15.00	1.127	-	-	-0.03	0.028	0.032
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant2	DSI 7	Reduced	633334	3500.01	1	14.59	15.00	1.099	-	-	-0.18	0.031	0.034
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant2	DSI 7	Reduced	633334	3500.01	1	14.48	15.00	1.127	-	-	0.12	0.044	0.050
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant2	DSI 7	Reduced	633334	3500.01	1	14.59	15.00	1.099	-	-	0.17	0.056	0.062
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant2	DSI 7	Reduced	633334	3500.01	1	14.48	15.00	1.127	-	-	-0.11	0.272	0.307
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant2	DSI 7	Reduced	633334	3500.01	1	14.59	15.00	1.099	-	-	0.15	0.364	0.400

Plo No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Sample	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 8	Simultaneous	6	2437	1	9.66	11.00	1.361	100	1.000	0.05	0.062	0.084	
	WLAN2.4GHZ	802.11b 1Mbps	Back	5mm	Ant 8	Simultaneous	6	2437	1	9.66	11.00	1.361	100	1.000	0.06	0.090	0.123	
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	5mm	Ant 8	Simultaneous	6	2437	1	9.66	11.00	1.361	100	1.000	-0.09	0.000	0.000	
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	5mm	Ant 8	Simultaneous	6	2437	1	9.66	11.00	1.361	100	1.000	-0.03	0.066	0.090	
61	WLAN2.4GHZ	802.11b 1Mbps	Top Side	5mm	Ant 8	Simultaneous	6	2437	1	9.66	11.00	1.361	100	1.000	0.03	0.121	0.165	
	Bluetooth	1Mbps	Front	5mm	Ant 8	Full Power	78	2480	1	14.23	15.00	1.195	76.79	1.302	0.05	0.054	0.084	
62	Bluetooth	1Mbps	Back	5mm	Ant 8	Full Power	78	2480	1	14.23	15.00	1.195	76.79	1.302	0.02	0.069	0.107	
	Bluetooth	1Mbps	Left Side	5mm	Ant 8	Full Power	78	2480	1	14.23	15.00	1.195	76.79	1.302	-0.15	0.046	0.072	
	Bluetooth	1Mbps	Right Side	5mm	Ant 8	Full Power	78	2480	1	14.23	15.00	1.195	76.79	1.302	0.17	0.051	0.079	
	Bluetooth	1Mbps	Top Side	5mm	Ant 8	Full Power	78	2480	1	14.23	15.00	1.195	76.79	1.302	-0.01	0.052	0.081	
	WLAN5.2GHZ	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	Simultaneous	42	5210	1	6.05	7.50	1.396	90.28	1.108	-0.05	0.025	0.039	
	WLAN5.2GHZ	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	Simultaneous	42	5210	1	6.05	7.50	1.396	90.28	1.108	-0.05	0.100	0.155	
	WLAN5.2GHZ	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 8	Simultaneous	42	5210	1	6.05	7.50	1.396	90.28	1.108	0.02	0.004	0.006	
	WLAN5.2GHZ	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 8	Simultaneous	42	5210	1	6.05	7.50	1.396	90.28	1.108	0.01	0.033	0.051	
63	WLAN5.2GHZ	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 8	Simultaneous	42	5210	1	6.05	7.50	1.396	90.28	1.108	0.01	0.139	0.215	
	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	Simultaneous	155	5775	1	4.76	6.50	1.493	90.28	1.108	0.02	0.084	0.139	

Sporton International Inc. (Kunshan)

TEL : 86-512-57900158 / FAX : 86-512-57900958

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	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	Simultaneous	155	5775	1	4.76	6.50	1.493	90.28	1.108	0.01	0.111	0.184
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 8	Simultaneous	155	5775	1	4.76	6.50	1.493	90.28	1.108	0.03	0.053	0.088
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 8	Simultaneous	155	5775	1	4.76	6.50	1.493	90.28	1.108	0.05	0.046	0.076
64	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 8	Simultaneous	155	5775	1	4.76	6.50	1.493	90.28	1.108	0.06	0.149	0.246

15.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 4	Full Power	133322	683	1	23.01	24.00	1.256	0.01	0.364	0.457
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 4	Full Power	133322	683	1	21.96	23.00	1.271	0.02	0.309	0.393
65	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	133322	683	1	23.01	24.00	1.256	-0.03	0.664	0.834
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	133322	683	1	21.96	23.00	1.271	-0.04	0.540	0.686
	LTE Band 71	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	133322	683	1	21.89	23.00	1.291	0.08	0.564	0.728
ENDC																					
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 4	Full Power	133322	683	1	22.87	24.00	1.297	0.07	0.146	0.189
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 4	Full Power	133322	683	1	21.93	23.00	1.279	0.06	0.097	0.124
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 4	Full Power	133322	683	1	22.87	24.00	1.297	0.01	0.330	0.428
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 4	Full Power	133322	683	1	21.93	23.00	1.279	0.04	0.213	0.273
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 4	Full Power	23095	707.5	1	22.84	24.00	1.306	0.08	0.456	0.596
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 4	Full Power	23095	707.5	1	21.86	23.00	1.300	-0.11	0.364	0.473
66	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	23095	707.5	1	22.84	24.00	1.306	-0.17	0.647	0.845
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	23095	707.5	1	21.86	23.00	1.300	0.04	0.520	0.676
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	23095	707.5	1	21.79	23.00	1.321	0.03	0.612	0.809
ENDC																					
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	23095	707.5	1	21.36	23.00	1.459	0.01	0.302	0.441
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	23095	707.5	1	20.34	22.00	1.466	0.08	0.241	0.353
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	23095	707.5	1	21.36	23.00	1.459	-0.04	0.429	0.626
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	23095	707.5	1	20.34	22.00	1.466	-0.05	0.345	0.506
	LTE Band 12	10M	QPSK	1	0	-	Front	14mm	Ant0	-	DSI 4	Full Power	23095	707.5	1	22.84	24.00	1.306	0.01	0.101	0.132
	LTE Band 12	10M	QPSK	1	0	-	Back	21mm	Ant0	-	DSI 4	Full Power	23095	707.5	1	22.84	24.00	1.306	-0.04	0.085	0.111
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant1	-	DSI 4	Full Power	23095	707.5	1	22.94	24.00	1.276	0.11	0.186	0.237
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant1	-	DSI 4	Full Power	23095	707.5	1	22.02	23.00	1.253	0.18	0.208	0.261
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant1	-	DSI 4	Full Power	23095	707.5	1	22.94	24.00	1.276	-0.04	0.441	0.563
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant1	-	DSI 4	Full Power	23095	707.5	1	22.02	23.00	1.253	-0.11	0.365	0.457
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 4	Full Power	23230	782	1	22.84	24.00	1.306	0.01	0.600	0.784
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 4	Full Power	23230	782	1	21.88	23.00	1.294	0.08	0.563	0.729
67	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	23230	782	1	22.84	24.00	1.306	0.03	0.852	1.113
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	23230	782	1	21.88	23.00	1.294	-0.03	0.786	1.017
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	23230	782	1	21.81	23.00	1.315	0.04	0.789	1.038
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 4	Full Power	23230	782	1	23.07	24.00	1.239	0.02	0.339	0.420
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 4	Full Power	23230	782	1	22.12	23.00	1.225	-0.05	0.237	0.290
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 4	Full Power	23230	782	1	23.07	24.00	1.239	-0.09	0.472	0.585
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 4	Full Power	23230	782	1	22.12	23.00	1.225	-0.1	0.328	0.402
ENDC																					
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	23230	782	1	19.72	21.50	1.507	-0.02	0.308	0.464
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	23230	782	1	18.59	20.50	1.552	0.02	0.289	0.449
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	23230	782	1	19.72	21.50	1.507	-0.18	0.437	0.658
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	23230	782	1	18.59	20.50	1.552	-0.05	0.403	0.626
	LTE Band 13	10M	QPSK	1	0	-	Front	14mm	Ant0	-	DSI 4	Full Power	23230	782	1	22.84	24.00	1.306	-0.12	0.103	0.135
	LTE Band 13	10M	QPSK	1	0	-	Back	21mm	Ant0	-	DSI 4	Full Power	23230	782	1	22.84	24.00	1.306	0.06	0.086	0.112
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 4	Full Power	23330	793	1	22.89	24.00	1.291	0.06	0.607	0.784
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 4	Full Power	23330	793	1	21.86	23.00	1.300	-0.18	0.483	0.628
68	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	23330	793	1	22.89	24.00	1.291	-0.05	0.880	1.136



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	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	23330	793	1	21.86	23.00	1.300	-0.05	0.698	0.908
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	23330	793	1	21.85	23.00	1.303	0.18	0.698	0.910
ENDC																					
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	23330	793	1	19.71	21.50	1.510	-0.02	0.291	0.439
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	23330	793	1	18.71	20.50	1.510	-0.18	0.231	0.349
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	23330	793	1	19.71	21.50	1.510	-0.1	0.422	0.637
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	23330	793	1	18.71	20.50	1.510	0.15	0.335	0.506
	LTE Band 14	10M	QPSK	1	0	-	Front	14mm	Ant0	-	DSI 4	Full Power	23330	793	1	22.89	24.00	1.291	0.14	0.099	0.128
	LTE Band 14	10M	QPSK	1	0	-	Back	21mm	Ant0	-	DSI 4	Full Power	23330	793	1	22.89	24.00	1.291	0.02	0.083	0.107
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant1	-	DSI 3	Reduced	23330	793	1	21.54	22.50	1.247	0.06	0.327	0.408
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant1	-	DSI 3	Reduced	23330	793	1	21.47	22.50	1.268	0.04	0.247	0.313
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant1	-	DSI 3	Reduced	23330	793	1	21.54	22.50	1.247	-0.07	0.488	0.609
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant1	-	DSI 3	Reduced	23330	793	1	21.47	22.50	1.268	0.03	0.371	0.470
	LTE Band 14	10M	QPSK	1	0	-	Front	14mm	Ant1	-	DSI 4	Full Power	23330	793	1	23.09	24.00	1.233	0.05	0.115	0.142
	LTE Band 14	10M	QPSK	1	0	-	Back	21mm	Ant1	-	DSI 4	Full Power	23330	793	1	23.09	24.00	1.233	0.18	0.096	0.119
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 4	Full Power	136100	680.5	1	23.13	24.00	1.222	-0.04	0.191	0.233
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 4	Full Power	136100	680.5	1	23.05	24.00	1.245	-0.1	0.216	0.269
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	Full Power	136100	680.5	1	23.13	24.00	1.222	-0.01	0.334	0.408
69	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	Full Power	136100	680.5	1	23.05	24.00	1.245	-0.08	0.413	0.514
ENDC																					
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant1	-	DSI 4	Full Power	136100	680.5	1	22.95	24.00	1.274	-0.19	0.139	0.177
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant1	-	DSI 4	Full Power	136100	680.5	1	22.91	24.00	1.285	0.18	0.128	0.165
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant1	-	DSI 4	Full Power	136100	680.5	1	22.95	24.00	1.274	-0.05	0.251	0.320
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant1	-	DSI 4	Full Power	136100	680.5	1	22.91	24.00	1.285	-0.02	0.200	0.257
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 4	Full Power	141500	707.5	1	23.15	24.00	1.216	0.13	0.255	0.310
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 4	Full Power	141500	707.5	1	23.13	24.00	1.222	-0.14	0.225	0.275
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	Full Power	141500	707.5	1	23.15	24.00	1.216	-0.08	0.322	0.392
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	Full Power	141500	707.5	1	23.13	24.00	1.222	-0.06	0.293	0.358
ENDC																					
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant1	-	DSI 4	Full Power	141500	707.5	1	23.02	24.00	1.253	0.17	0.161	0.202
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant1	-	DSI 4	Full Power	141500	707.5	1	22.98	24.00	1.265	-0.1	0.199	0.252
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant1	-	DSI 4	Full Power	141500	707.5	1	23.02	24.00	1.253	-0.07	0.284	0.356
70	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant1	-	DSI 4	Full Power	141500	707.5	1	22.98	24.00	1.265	-0.04	0.312	0.395
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 4	Full Power	158600	793	1	22.94	24.00	1.276	-0.1	0.434	0.554
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 4	Full Power	158600	793	1	22.92	24.00	1.282	-0.13	0.343	0.440
71	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	Full Power	158600	793	1	22.94	24.00	1.276	-0.01	0.569	0.726
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	Full Power	158600	793	1	22.92	24.00	1.282	-0.19	0.503	0.645
835MHz																					
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 0	-	DSI 3	Reduced	189	836.4	1	27.77	29.00	1.327	0.15	0.528	0.701
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	Reduced	189	836.4	1	27.77	29.00	1.327	0.11	0.916	1.216
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	Reduced	128	824.2	1	27.74	29.00	1.337	-0.07	0.815	1.089
72	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	Reduced	251	848.8	1	27.76	29.00	1.330	-0.07	1.050	1.397
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	Reduced	251	848.8	2	27.76	29.00	1.330	0.09	0.995	1.324
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	Headset	DSI 3	Reduced	251	848.8	1	27.76	29.00	1.330	0.08	1.010	1.344
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	14mm	Ant 0	-	DSI 4	Full Power	189	836.4	1	29.79	31.00	1.321	0.01	0.247	0.326
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	21mm	Ant 0	-	DSI 4	Full Power	251	848.8	1	29.75	31.00	1.334	0.025	0.207	0.276
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	Reduced	4182	836.4	1	22.35	23.00	1.161	-0.11	0.648	0.753
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Reduced	4182	836.4	1	22.35	23.00	1.161	-0.14	1.110	1.289
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Reduced	4132	826.4	1	22.09	23.00	1.233	0.13	0.972	1.199
73	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Reduced	4233	846.6	1	22.27	23.00	1.183	-0.03	1.170	1.384
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	Reduced	4233	846.6	1	22.27	23.00	1.183	0.03	0.998	1.181
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 0	-	DSI 4	Full Power	4182	836.4	1	23.24	24.00	1.191	0.08	0.275	0.328
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	21mm	Ant 0	-	DSI 4	Full Power	4233	846.6	1	23.21	24.00	1.199	0.04	0.231	0.277
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	26865	831.5	1	21.79	23.00	1.321	0.16	0.595	0.786
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	26865	831.5	1	20.71	22.00	1.346	0.11	0.475	0.639
74	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	26865	831.5	1	21.79	23.00	1.321	-0.06	1.030	1.361



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	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 0	-	DSI 3	Reduced	20525+ 20597	836.5+ 843.7	1	21.48	23.00	1.419	0.01	0.873	1.239
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	Headse	DSI 3	Reduced	26865	831.5	1	21.79	23.00	1.321	0.02	0.978	1.292
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	26865	831.5	1	20.71	22.00	1.346	-0.17	0.811	1.091
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	26865	831.5	1	20.70	22.00	1.349	0.17	0.791	1.067
	LTE Band 26	15M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI 4	Full Power	26865	831.5	1	22.89	24.00	1.291	0.07	0.242	0.312
	LTE Band 26	15M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	Full Power	26865	831.5	1	22.89	24.00	1.291	-0.05	0.203	0.262
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	Reduced	26865	831.5	1	21.73	23.00	1.340	0.02	0.584	0.782
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	-	DSI 3	Reduced	26865	831.5	1	20.78	22.00	1.324	-0.13	0.456	0.604
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	26865	831.5	1	21.73	23.00	1.340	-0.08	0.943	1.263
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	Headse	DSI 3	Reduced	26865	831.5	1	21.73	23.00	1.340	0.06	0.915	1.226
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	26865	831.5	1	20.78	22.00	1.324	0.14	0.724	0.959
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	26865	831.5	1	20.67	22.00	1.358	-0.04	0.691	0.939
	LTE Band 26	15M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	Full Power	26865	831.5	1	23.17	24.00	1.211	-0.02	0.222	0.269
	LTE Band 26	15M	QPSK	1	0	-	Front	14mm	Ant 1	-	DSI 4	Full Power	26865	831.5	1	23.17	24.00	1.211	0.09	0.186	0.225
ENDC																					
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant1	-	DSI 3	Reduced	26865	831.5	1	18.81	19.50	1.172	0.02	0.298	0.349
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant1	-	DSI 3	Reduced	26865	831.5	1	17.63	18.50	1.222	-0.13	0.233	0.285
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant1	-	DSI 3	Reduced	26865	831.5	1	18.81	19.50	1.172	-0.08	0.482	0.565
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant1	-	DSI 3	Reduced	26865	831.5	1	17.63	18.50	1.222	0.14	0.370	0.452
	LTE Band 26	15M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	Full Power	26865	831.5	1	23.17	24.00	1.211	-0.02	0.113	0.137
	LTE Band 26	15M	QPSK	1	0	-	Front	14mm	Ant 1	-	DSI 4	Full Power	26865	831.5	1	23.17	24.00	1.211	0.09	0.095	0.115
ENDC																					
	LTE Band 5	10M	QPSK	1	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	20525	836.5	1	18.40	20.00	1.445	0.07	0.267	0.386
	LTE Band 5	10M	QPSK	25	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	20525	836.5	1	17.41	19.00	1.442	-0.13	0.213	0.307
75	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	20525	836.5	1	18.40	20.00	1.445	-0.08	0.434	0.627
	LTE Band 5	10M	QPSK	25	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	20525	836.5	1	17.41	19.00	1.442	0.11	0.364	0.525
	LTE Band 5	10M	QPSK	1	0	-	Front	14mm	Ant0	-	DSI 4	Full Power	20525	836.5	1	22.83	24.00	1.309	0.03	0.102	0.134
	LTE Band 5	10M	QPSK	1	0	-	Back	21mm	Ant0	-	DSI 4	Full Power	20525	836.5	1	22.83	24.00	1.309	0.06	0.086	0.112
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 4	Full Power	166300	831.5	1	23.08	24.00	1.236	-0.18	0.502	0.620
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 4	Full Power	166300	831.5	1	23.07	24.00	1.239	0.05	0.499	0.618
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	Full Power	166300	831.5	1	23.08	24.00	1.236	0.19	0.741	0.916
76	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	Full Power	166300	831.5	1	23.07	24.00	1.239	-0.04	0.777	0.963
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 4	Full Power	166300	831.5	1	22.11	23.00	1.227	0.06	0.697	0.856
ENDC																					
	FR1 n5	25M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant1	-	DSI 3	Reduced	167300	836.5	1	21.87	23.00	1.297	-0.1	0.249	0.323
	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Front	5mm	Ant1	-	DSI 3	Reduced	167300	836.5	1	21.95	23.00	1.274	0.02	0.287	0.365
	FR1 n5	25M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant1	-	DSI 3	Reduced	167300	836.5	1	21.87	23.00	1.297	-0.01	0.338	0.438
77	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Back	5mm	Ant1	-	DSI 3	Reduced	167300	836.5	1	21.95	23.00	1.274	-0.08	0.432	0.550
	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Front	14mm	Ant1	-	DSI 4	Full Power	167300	836.5	1	23.02	24.00	1.253	0.06	0.118	0.148
	FR1 n5	25M	QPSK	64	32	DFT-SCS-15KHz	Back	21mm	Ant1	-	DSI 4	Full Power	167300	836.5	1	23.02	24.00	1.253	0.03	0.108	0.135



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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	Reduced	1413	1732.6	1	18.03	19.00	1.250	0.12	0.396	0.495
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Reduced	1413	1732.6	1	18.03	19.00	1.250	-0.07	1.040	1.300
78	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Reduced	1312	1712.4	1	17.91	19.00	1.285	-0.01	1.080	1.388
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	Reduced	1312	1712.4	1	17.91	19.00	1.285	-0.02	0.897	1.153
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Reduced	1513	1752.6	1	17.97	19.00	1.268	-0.05	0.958	1.214
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 0	-	DSI 4	Full Power	1413	1732.6	1	23.14	24.00	1.219	-0.07	0.481	0.586
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	21mm	Ant 0	-	DSI 4	Full Power	1312	1712.4	1	23.13	24.00	1.222	0.07	0.545	0.666
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	132322	1745	1	17.62	19.00	1.374	0.17	0.382	0.525
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	132322	1745	1	16.53	18.00	1.403	-0.13	0.307	0.431
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	132322	1745	1	17.62	19.00	1.374	-0.12	0.963	1.323
79	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	132072	1720	1	17.59	19.00	1.384	-0.04	1.010	1.397
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	Reduced	132072	1720	1	17.59	19.00	1.384	-0.05	0.965	1.335
	LTE Band 66C	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Sensor on	132072+132270	1720+1739.8	1	17.56	19.00	1.393	0.08	0.629	0.876
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	132572	1770	1	17.37	19.00	1.455	0.04	0.776	1.129
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	132322	1745	1	16.53	18.00	1.403	-0.12	0.762	1.069
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	132072	1720	1	16.46	18.00	1.426	-0.02	0.814	1.160
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	132572	1770	1	16.40	18.00	1.445	-0.14	0.709	1.025
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	132322	1745	1	16.49	18.00	1.416	-0.18	0.727	1.029
	LTE Band 66	20M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI 4	Full Power	132322	1745	1	22.77	24.00	1.327	-0.1	0.450	0.597
	LTE Band 66	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	Full Power	132072	1720	1	22.75	24.00	1.334	0.08	0.510	0.680
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	Reduced	132322	1745	1	19.86	21.00	1.300	-0.01	0.581	0.755
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	Reduced	132322	1745	1	18.89	20.00	1.291	-0.11	0.519	0.670
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	132322	1745	1	19.86	21.00	1.300	0.09	0.922	1.199
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	132072	1720	1	19.81	21.00	1.315	-0.17	0.838	1.102
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	132572	1770	1	19.67	21.00	1.358	0.08	0.928	1.261
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	Reduced	132572	1770	1	19.67	21.00	1.358	0.17	0.867	1.178
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	132322	1745	1	18.89	20.00	1.291	0.12	0.735	0.949
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	132072	1720	1	18.88	20.00	1.294	-0.07	0.729	0.943
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	132572	1770	1	18.68	20.00	1.355	0.06	0.795	1.077
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	132322	1745	1	18.86	20.00	1.300	-0.03	0.723	0.940
	LTE Band 66	20M	QPSK	1	0	-	Front	14mm	Ant 1	-	DSI 4	Full Power	132322	1745	1	23.25	24.00	1.189	-0.18	0.250	0.297
	LTE Band 66	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	Full Power	132572	1770	1	23.07	24.00	1.239	0.03	0.193	0.239
ENDC																					
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	132322	1745	1	15.17	16.50	1.358	-0.07	0.215	0.292
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	132322	1745	1	14.08	15.50	1.387	0.01	0.172	0.239
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	132322	1745	1	15.17	16.50	1.358	-0.02	0.542	0.736
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	132322	1745	1	14.08	15.50	1.387	-0.1	0.429	0.595
	LTE Band 66	20M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI 4	Full Power	132322	1745	1	22.77	24.00	1.327	-0.1	0.213	0.283
	LTE Band 66	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	Full Power	132322	1745	1	22.77	24.00	1.327	0.08	0.274	0.364
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant1	-	DSI 3	Reduced	132322	1745	1	17.21	18.00	1.199	-0.13	0.297	0.356
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant1	-	DSI 3	Reduced	132322	1745	1	16.29	17.00	1.178	0.14	0.266	0.313
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant1	-	DSI 3	Reduced	132322	1745	1	17.21	18.00	1.199	0.09	0.472	0.566
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant1	-	DSI 3	Reduced	132322	1745	1	16.29	17.00	1.178	0.16	0.376	0.443
	LTE Band 66	20M	QPSK	1	0	-	Front	14mm	Ant 1	-	DSI 4	Full Power	132322	1745	1	23.25	24.00	1.189	-0.18	0.128	0.152
	LTE Band 66	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	Full Power	132322	1745	1	23.25	24.00	1.189	0.03	0.098	0.116
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	Reduced	340500	1702.5	1	20.49	21.50	1.262	0.19	0.462	0.583
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	Reduced	340500	1702.5	1	20.55	21.50	1.245	0.07	0.377	0.469
80	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	Reduced	340500	1702.5	1	20.49	21.50	1.262	0.06	1.100	1.388
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	Headset	DSI 3	Reduced	340500	1702.5	1	20.49	21.50	1.262	0.01	0.953	1.203
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	Reduced	340500	1702.5	1	20.55	21.50	1.245	0.18	0.986	1.227
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	Reduced	340500	1702.5	1	20.22	21.50	1.343	-0.12	0.975	1.309
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	14mm	Ant 0	-	DSI 4	Full Power	340500	1702.5	1	22.96	24.00	1.271	0.05	0.391	0.497



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	FR1 n70	15M	QPSK	1	1	DFT-SCS-15kHz	Back	21mm	Ant 0	-	DSI 4	Full Power	340500	1702.5	1	22.96	24.00	1.271	0.07	0.375	0.476
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15kHz	Front	5mm	Ant 0	-	DSI 3	Reduced	349000	1745	1	20.20	22.00	1.514	-0.08	0.384	0.581
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Front	5mm	Ant 0	-	DSI 3	Reduced	349000	1745	1	20.46	22.00	1.426	-0.01	0.410	0.584
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15kHz	Back	5mm	Ant 0	-	DSI 3	Reduced	349000	1745	1	20.20	22.00	1.514	-0.16	0.913	1.382
81	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Back	5mm	Ant 0	-	DSI 3	Reduced	349000	1745	1	20.46	22.00	1.426	-0.17	0.973	1.387
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Back	5mm	Ant 0	Headset	DSI 3	Reduced	349000	1745	1	20.46	22.00	1.426	0.02	0.924	1.317
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15kHz	Back	5mm	Ant 0	-	DSI 3	Reduced	349000	1745	1	20.36	22.00	1.459	0.13	0.762	1.112
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Front	14mm	Ant 0	-	DSI 4	Full Power	349000	1745	1	22.63	24.00	1.371	0.01	0.311	0.426
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Back	21mm	Ant 0	-	DSI 4	Full Power	349000	1745	1	22.63	24.00	1.371	-0.19	0.298	0.409
ENDC																					
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15kHz	Front	5mm	Ant0	-	DSI 3	Reduced	349000	1745	1	16.91	18.50	1.442	-0.13	0.201	0.290
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Front	5mm	Ant0	-	DSI 3	Reduced	349000	1745	1	17.10	18.50	1.380	0.04	0.215	0.297
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15kHz	Back	5mm	Ant0	-	DSI 3	Reduced	349000	1745	1	16.91	18.50	1.442	-0.01	0.499	0.720
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Back	5mm	Ant0	-	DSI 3	Reduced	349000	1745	1	17.10	18.50	1.380	-0.13	0.551	0.761
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Front	14mm	Ant 0	-	DSI 4	Full Power	349000	1745	1	22.63	24.00	1.371	0.01	0.163	0.223
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Back	21mm	Ant 0	-	DSI 4	Full Power	349000	1745	1	22.63	24.00	1.371	-0.19	0.169	0.232
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15kHz	Front	5mm	Ant1	-	DSI 3	Reduced	349000	1745	1	19.47	20.50	1.268	0.15	0.214	0.271
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Front	5mm	Ant1	-	DSI 3	Reduced	349000	1745	1	19.51	20.50	1.256	-0.01	0.256	0.322
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15kHz	Back	5mm	Ant1	-	DSI 3	Reduced	349000	1745	1	19.47	20.50	1.268	0.16	0.308	0.390
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Back	5mm	Ant1	-	DSI 3	Reduced	349000	1745	1	19.51	20.50	1.256	-0.06	0.414	0.520
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Front	14mm	Ant1	-	DSI 4	Full Power	349000	1745	1	22.62	24.00	1.374	0.07	0.174	0.239
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15kHz	Back	21mm	Ant1	-	DSI 4	Full Power	349000	1745	1	22.62	24.00	1.374	-0.07	0.113	0.155

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Power Reductor	Ch.	Freq. (MHz)	Sample	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	Reduced	661	1880	1	22.58	24.00	1.387	0.01	0.433	0.600
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	Reduced	661	1880	1	22.58	24.00	1.387	-0.02	0.982	1.362
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	Reduced	512	1850.2	1	22.54	24.00	1.400	-0.13	0.973	1.362
82	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	Reduced	810	1909.8	1	22.49	24.00	1.416	-0.06	0.987	1.397
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Headset	DSI 3	Reduced	810	1909.8	1	22.49	24.00	1.416	-0.18	0.932	1.320
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	14mm	Ant 0	-	DSI 4	Full Power	661	1880	1	25.76	27.00	1.330	-0.12	0.253	0.337
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	21mm	Ant 0	-	DSI 4	Full Power	810	1909.8	1	25.70	27.00	1.349	-0.02	0.217	0.293
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	Reduced	9400	1880	1	17.85	19.00	1.303	-0.17	0.414	0.540
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Reduced	9400	1880	1	17.85	19.00	1.303	0.01	0.923	1.203
83	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Reduced	9262	1852.4	1	17.82	19.00	1.312	0.05	0.990	1.299
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	Reduced	9262	1852.4	1	17.82	19.00	1.312	-0.12	0.914	1.199
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Reduced	9538	1907.6	1	17.76	19.00	1.330	-0.05	0.938	1.248
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 0	-	DSI 4	Full Power	9400	1880	1	23.05	24.00	1.245	-0.1	0.480	0.597
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	21mm	Ant 0	-	DSI 4	Full Power	9262	1852.4	1	23.04	24.00	1.247	-0.12	0.395	0.493
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	26340	1880	1	16.94	18.50	1.432	-0.11	0.358	0.513
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	26340	1880	1	15.84	17.50	1.466	-0.18	0.290	0.425
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	26340	1880	1	16.94	18.50	1.432	-0.04	0.845	1.210
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	26140	1860	1	16.92	18.50	1.439	0.04	0.874	1.258
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	Reduced	26140	1860	1	16.92	18.50	1.439	0.17	0.831	1.196
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	26590	1905	1	16.86	18.50	1.459	-0.08	0.814	1.187
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	26340	1880	1	15.84	17.50	1.466	-0.14	0.674	0.988
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	26140	1860	1	15.76	17.50	1.493	0.11	0.698	1.042
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	26590	1905	1	15.71	17.50	1.510	-0.15	0.654	0.988
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	26340	1880	1	15.81	17.50	1.476	-0.15	0.664	0.980
	LTE Band 25	20M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI 4	Full Power	26340	1880	1	22.67	24.00	1.358	0.07	0.445	0.604
	LTE Band 25	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	Full Power	26140	1860	1	22.58	24.00	1.387	-0.19	0.386	0.535
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	Reduced	26340	1880	1	17.76	19.00	1.330	-0.18	0.564	0.750
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	Reduced	26340	1880	1	16.87	18.00	1.297	0.07	0.439	0.569
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	26340	1880	1	17.76	19.00	1.330	0.06	0.928	1.235
84	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	26140	1860	1	17.75	19.00	1.334	0.01	0.944	1.259

Sporton International Inc. (Kunshan)

TEL : 86-512-57900158 / FAX : 86-512-57900958

FCC ID : IHD56AA3

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FCC SAR Test Report

Report No. : FA1D1722

	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	Reduced	26140	1860	1	17.75	19.00	1.334	0.09	0.864	1.152
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	26590	1905	1	17.73	19.00	1.340	0.08	0.000	0.000
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	26340	1880	1	16.87	18.00	1.297	-0.04	0.713	0.925
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	26140	1860	1	16.81	18.00	1.315	0.02	0.703	0.925
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	26590	1905	1	16.65	18.00	1.365	-0.1	0.618	0.843
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	Reduced	26340	1880	1	16.83	18.00	1.309	0.04	0.744	0.974
	LTE Band 25	20M	QPSK	1	0	-	Front	14mm	Ant 1	-	DSI 4	Full Power	26340	1880	1	22.94	24.00	1.276	-0.09	0.421	0.537
	LTE Band 25	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	Full Power	26140	1860	1	22.89	24.00	1.291	-0.06	0.325	0.420
ENDC																					
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	26340	1880	1	15.32	16.50	1.312	0.08	0.229	0.300
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	26340	1880	1	14.42	15.50	1.282	0.05	0.186	0.239
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	26340	1880	1	15.32	16.50	1.312	-0.06	0.540	0.709
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	26340	1880	1	14.42	15.50	1.282	0.04	0.431	0.553
	LTE Band 25	20M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI 4	Full Power	26340	1880	1	22.67	24.00	1.358	0.07	0.265	0.360
	LTE Band 25	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	Full Power	26340	1880	1	22.67	24.00	1.358	-0.19	0.238	0.323
	FR 1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	Reduced	376500	1882.5	1	20.69	22.00	1.352	0.13	0.439	0.594
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	Reduced	376500	1882.5	1	20.79	22.00	1.321	0.08	0.478	0.632
	FR 1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	Reduced	376500	1882.5	1	20.69	22.00	1.352	0.01	0.866	1.171
85	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	Reduced	376500	1882.5	1	20.79	22.00	1.321	-0.04	1.040	1.374
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	Headset	DSI 3	Reduced	376500	1882.5	1	20.79	22.00	1.321	0.08	0.934	1.234
	FR 1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	Reduced	376500	1882.5	1	20.17	22.00	1.524	0.05	0.849	1.294
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	14mm	Ant 0	-	DSI 4	Full Power	376500	1882.5	1	22.74	24.00	1.337	0.03	0.304	0.406
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	21mm	Ant 0	-	DSI 4	Full Power	376500	1882.5	1	22.74	24.00	1.337	-0.19	0.395	0.528
ENDC																					
	FR 1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant0	-	DSI 3	Reduced	376500	1882.5	1	17.69	19.00	1.352	0.12	0.224	0.303
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant0	-	DSI 3	Reduced	376500	1882.5	1	17.70	19.00	1.349	-0.07	0.244	0.329
	FR 1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant0	-	DSI 3	Reduced	376500	1882.5	1	17.69	19.00	1.352	0.03	0.441	0.596
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant0	-	DSI 3	Reduced	376500	1882.5	1	17.70	19.00	1.349	-0.04	0.530	0.715
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	14mm	Ant 0	-	DSI 4	Full Power	376500	1882.5	1	22.74	24.00	1.337	0.03	0.155	0.207
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	21mm	Ant 0	-	DSI 4	Full Power	376500	1882.5	1	22.74	24.00	1.337	-0.19	0.201	0.269
	FR 1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant1	-	DSI 3	Reduced	376500	1882.5	1	16.63	17.50	1.222	-0.18	0.178	0.217
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant1	-	DSI 3	Reduced	376500	1882.5	1	16.81	17.50	1.172	0.1	0.205	0.240
	FR 1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant1	-	DSI 3	Reduced	376500	1882.5	1	16.63	17.50	1.222	-0.13	0.268	0.327
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant1	-	DSI 3	Reduced	376500	1882.5	1	16.81	17.50	1.172	0.08	0.326	0.382
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	14mm	Ant 1	-	DSI 4	Full Power	376500	1882.5	1	23.13	24.00	1.222	-0.15	0.185	0.226
	FR 1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	21mm	Ant 1	-	DSI 4	Full Power	376500	1882.5	1	23.13	24.00	1.222	0.15	0.271	0.331
2300MHz																					
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	27710	2310	1	17.90	19.00	1.288	-0.13	0.512	0.660
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	27710	2310	1	16.81	18.00	1.315	-0.01	0.410	0.539
86	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	27710	2310	1	17.90	19.00	1.288	-0.08	0.945	1.217
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	Reduced	27710	2310	1	17.90	19.00	1.288	0.04	0.854	1.100
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	27710	2310	1	16.81	18.00	1.315	0.12	0.747	0.982
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	27710	2310	1	16.82	18.00	1.312	-0.19	0.545	0.715
	LTE Band 30	10M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI 4	Full Power	27710	2310	1	22.85	24.00	1.303	0.04	0.353	0.460
	LTE Band 30	10M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	Full Power	27710	2310	1	22.85	24.00	1.303	0.19	0.232	0.302
ENDC																					
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	27710	2310	1	13.82	15.50	1.472	0.02	0.248	0.365
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	27710	2310	1	12.70	14.50	1.514	0.05	0.198	0.300
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	27710	2310	1	13.82	15.50	1.472	-0.03	0.405	0.596
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	27710	2310	1	12.70	14.50	1.514	0.1	0.361	0.546
	LTE Band 30	10M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI 4	Full Power	27710	2310	1	22.85	24.00	1.303	0.04	0.171	0.223
	LTE Band 30	10M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	Full Power	27710	2310	1	22.85	24.00	1.303	0.01	0.099	0.129
ENDC																					
	FR 1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant0	-	DSI 3	Reduced	462000	2310	1	16.22	18.00	1.507	0.03	0.218	0.328
	FR 1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant0	-	DSI 3	Reduced	462000	2310	1	16.42	18.00	1.439	0.17	0.211	0.304
87	FR 1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant0	-	DSI 3	Reduced	462000	2310	1	16.22	18.00	1.507	-0.08	0.396	0.597



FCC SAR Test Report

Report No. : FA1D1722

FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant0	-	DSI 3	Reduced	462000	2310	1	16.42	18.00	1.439	0.1	0.354	0.509
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	14mm	Ant0	-	DSI 4	Full Power	462000	2310	1	22.57	24.00	1.390	0.02	0.178	0.247
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	21mm	Ant0	-	DSI 4	Full Power	462000	2310	1	22.57	24.00	1.390	0.01	0.097	0.135
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant1	-	DSI 3	Reduced	462000	2310	1	12.92	14.00	1.282	-0.05	0.125	0.160
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant1	-	DSI 3	Reduced	462000	2310	1	13.01	14.00	1.256	-0.18	0.131	0.165
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant1	-	DSI 3	Reduced	462000	2310	1	12.92	14.00	1.282	-0.04	0.409	0.524
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant1	-	DSI 3	Reduced	462000	2310	1	13.01	14.00	1.256	-0.06	0.446	0.560
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	14mm	Ant1	-	DSI 4	Full Power	462000	2310	1	22.78	24.00	1.324	0.04	0.282	0.373
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	21mm	Ant1	-	DSI 4	Full Power	462000	2310	1	22.78	24.00	1.324	0.05	0.381	0.505

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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	Reduced	21100	2535	1	21.77	23.00	1.327	-	-	0.18	0.617	0.819
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	20850	2510	1	21.75	23.00	1.334	-	-	0.18	0.564	0.752
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	21350	2560	1	21.71	23.00	1.346	-	-	0.13	0.626	0.843
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	21100	2535	1	20.84	22.00	1.306	-	-	-0.11	0.488	0.637
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	Reduced	21100	2535	1	20.79	22.00	1.321	-	-	0.08	0.483	0.638
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	21100	2535	1	21.77	23.00	1.327	-	-	0.13	0.998	1.325
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	20850	2510	1	21.75	23.00	1.334	-	-	0.1	0.926	1.235
88	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	21350	2560	1	21.71	23.00	1.346	-	-	0.03	1.020	1.373
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	21350	2560	2	21.71	23.00	1.346	-	-	0.05	0.980	1.319
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	Reduced	21350	2560	1	21.71	23.00	1.346	-	-	0.14	0.943	1.269
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	21100	2535	1	20.84	22.00	1.306	-	-	-0.04	0.796	1.040
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	20850	2510	1	20.70	22.00	1.349	-	-	0.17	0.747	1.008
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	21350	2560	1	20.77	22.00	1.327	-	-	-0.15	0.819	1.087
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	Reduced	21100	2535	1	20.79	22.00	1.321	-	-	-0.03	0.787	1.040
	LTE Band 7	20M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI 4	Full Power	21350	2560	1	22.49	24.00	1.416	-	-	-0.05	0.411	0.582
	LTE Band 7	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	Full Power	21350	2560	1	22.49	24.00	1.416	-	-	0.06	0.246	0.348
ENDC																							
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	21100	2535	1	17.74	19.50	1.500	-	-	0.11	0.257	0.385
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant0	-	DSI 3	Reduced	21100	2535	1	16.85	18.50	1.462	-	-	0.12	0.203	0.297
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	21100	2535	1	17.74	19.50	1.500	-	-	-0.03	0.415	0.622
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant0	-	DSI 3	Reduced	21100	2535	1	16.85	18.50	1.462	-	-	-0.13	0.331	0.484
	LTE Band 7	20M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI 4	Full Power	21100	2535	1	22.62	24.00	1.374	-	-	0.01	0.172	0.236
	LTE Band 7	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	Full Power	21100	2535	1	22.62	24.00	1.374	-	-	0.06	0.101	0.139
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant1	-	DSI 3	Reduced	21100	2535	1	13.44	14.00	1.138	-	-	0.1	0.101	0.115
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant1	-	DSI 3	Reduced	21100	2535	1	13.39	14.00	1.151	-	-	0.07	0.080	0.092
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant1	-	DSI 3	Reduced	21100	2535	1	13.44	14.00	1.138	-	-	-0.07	0.417	0.474
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant1	-	DSI 3	Reduced	21100	2535	1	13.39	14.00	1.151	-	-	-0.04	0.296	0.341
	LTE Band 7	20M	QPSK	1	0	-	Front	14mm	Ant1	-	DSI 4	Full Power	21100	2535	1	23.29	24.00	1.178	-	-	-0.03	0.306	0.360
	LTE Band 7	20M	QPSK	1	0	-	Back	21mm	Ant1	-	DSI 4	Full Power	21100	2535	1	23.29	24.00	1.178	-	-	-0.13	0.445	0.524
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 4	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	-0.18	0.426	0.573
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 4	Full Power	40620	2593	1	21.76	23.00	1.330	62.9	1.006	-0.05	0.364	0.487
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	-0.11	0.724	0.974
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	40620+2593+2612.8	2593	1	22.61	24.00	1.377	62.9	1.006	-0.04	0.693	0.960
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	39750	2506	1	22.56	24.00	1.393	62.9	1.006	0.03	0.522	0.732
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	40185	2549.5	1	22.63	24.00	1.371	62.9	1.006	-0.15	0.540	0.745
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	41055	2636.5	1	22.71	24.00	1.346	62.9	1.006	0.05	0.552	0.747
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	41490	2680	1	22.67	24.00	1.358	62.9	1.006	0.16	0.586	0.801
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	40620	2593	1	21.76	23.00	1.330	62.9	1.006	-0.03	0.558	0.747
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	39750	2506	1	21.51	23.00	1.409	42.9	1.009	0.03	0.522	0.742
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	40185	2549.5	1	21.62	23.00	1.374	42.9	1.009	-0.15	0.540	0.749
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	41055	2636.5	1	21.75	23.00	1.334	42.9	1.009	0.05	0.552	0.743
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	41490	2680	1	21.68	23.00	1.355	42.9	1.009	0.16	0.586	0.801
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	40620	2593	1	21.73	23.00	1.340	62.9	1.006	0.14	0.604	0.814

Sporton International Inc. (Kunshan)

TEL : 86-512-57900158 / FAX : 86-512-57900958

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FCC SAR Test Report

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89	LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	Full Power	40620	2593	1	25.66	27.00	1.361	42.9	1.009	-0.12	0.951	1.306
	LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 4	Full Power	40620	2593	1	25.66	27.00	1.361	42.9	1.009	0.03	0.875	1.202
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 0	-	DSI 3	Reduced	518598	2592.99	1	23.57	24.00	1.104	-	-	0.07	0.458	0.506
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 0	-	DSI 3	Reduced	518598	2592.99	1	23.59	24.00	1.099	-	-	-0.11	0.726	0.798
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 0	-	DSI 3	Reduced	518598	2592.99	1	23.57	24.00	1.104	-	-	0.08	0.617	0.681
90	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 0	-	DSI 3	Reduced	518598	2592.99	1	23.59	24.00	1.099	-	-	0.04	1.020	1.121
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 0	-	DSI 3	Reduced	509202	2546.01	1	23.36	24.00	1.159	-	-	0.03	0.812	0.941
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 0	-	DSI 3	Reduced	528000	2640	1	23.28	24.00	1.180	-	-	0.06	0.863	1.019
	FR1 n41-HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 0	-	DSI 3	Reduced	518598	2592.99	1	23.43	24.00	1.140	-	-	0.08	0.815	0.929
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	14mm	Ant 0	-	DSI 4	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-	0.12	0.437	0.509
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	21mm	Ant 0	-	DSI 4	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-	0.05	0.228	0.265
ENDC																							
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant0	-	DSI 3	Reduced	518598	2592.99	1	19.33	20.50	1.309	-	-	0.04	0.224	0.293
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant0	-	DSI 3	Reduced	518598	2592.99	1	19.42	20.50	1.282	-	-	0.04	0.374	0.480
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant0	-	DSI 3	Reduced	518598	2592.99	1	19.33	20.50	1.309	-	-	-0.17	0.301	0.394
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant0	-	DSI 3	Reduced	518598	2592.99	1	19.42	20.50	1.282	-	-	0.04	0.498	0.639
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	14mm	Ant 0	-	DSI 4	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-	0.02	0.214	0.249
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	21mm	Ant 0	-	DSI 4	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-	0.03	0.113	0.132
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant1	-	DSI 3	Reduced	518598	2592.99	1	14.31	15.00	1.172	-	-	0.18	0.121	0.142
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant1	-	DSI 3	Reduced	518598	2592.99	1	14.47	15.00	1.130	-	-	-0.11	0.118	0.133
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant1	-	DSI 3	Reduced	518598	2592.99	1	14.31	15.00	1.172	-	-	-0.02	0.430	0.504
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant1	-	DSI 3	Reduced	518598	2592.99	1	14.47	15.00	1.130	-	-	0.08	0.450	0.508
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	14mm	Ant1	-	DSI 4	Full Power	518598	2592.99	1	26.54	27.00	1.112	-	-	0.16	0.289	0.321
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	21mm	Ant1	-	DSI 4	Full Power	518598	2592.99	1	25.74	27.00	1.337	-	-	-0.17	0.318	0.425
3300-4100MHz																							
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	Reduced	56150	3641	1	19.39	20.50	1.291	62.9	1.006	-0.15	0.439	0.570
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	Reduced	56150	3641	1	18.31	19.50	1.315	62.9	1.006	0.06	0.346	0.458
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	Reduced	56150	3641	1	19.39	20.50	1.291	62.9	1.006	0.19	0.836	1.086
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	Reduced	55340	3560	1	19.04	20.50	1.400	62.9	1.006	-0.01	0.716	1.008
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	Reduced	55830	3609	1	19.11	20.50	1.377	62.9	1.006	0.04	0.885	1.226
91	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	Reduced	56640	3690	1	19.19	20.50	1.352	62.9	1.006	-0.14	0.937	1.274
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	Headset	DSI 3	Reduced	56640	3690	1	19.19	20.50	1.352	62.9	1.006	-0.12	0.887	1.206
	LTE Band 48C	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	Reduced	56640+56442	3690+3670.2	1	19.51	20.50	1.256	62.9	1.006	0.07	0.899	1.136
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	Reduced	56150	3641	1	18.31	19.50	1.315	62.9	1.006	-0.06	0.652	0.863
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	Reduced	55340	3560	1	18.18	19.50	1.355	62.9	1.006	-0.05	0.591	0.806
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	Reduced	55830	3609	1	18.23	19.50	1.340	62.9	1.006	0.08	0.615	0.829
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	Reduced	56640	3690	1	18.18	19.50	1.355	62.9	1.006	0.04	0.596	0.813
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	Reduced	56150	3641	1	18.16	19.50	1.361	62.9	1.006	-0.14	0.645	0.883
	LTE Band 48	20M	QPSK	1	0	-	Front	14mm	Ant 2	-	DSI 4	Full Power	56150	3641	1	23.28	24.00	1.180	62.9	1.006	0.06	0.108	0.128
	LTE Band 48	20M	QPSK	1	0	-	Back	21mm	Ant 2	-	DSI 4	Full Power	56640	3690	1	23.23	24.00	1.194	62.9	1.006	-0.09	0.092	0.110
ENDC																							
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant2	-	DSI 3	Reduced	56150	3641	1	16.26	17.00	1.186	62.9	1.006	0.08	0.226	0.270
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant2	-	DSI 3	Reduced	56150	3641	1	15.10	16.00	1.230	62.9	1.006	0.16	0.178	0.220
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant2	-	DSI 3	Reduced	56150	3641	1	16.26	17.00	1.186	62.9	1.006	0.07	0.430	0.513
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant2	-	DSI 3	Reduced	56150	3641	1	15.10	16.00	1.230	62.9	1.006	0.06	0.335	0.415
	LTE Band 48	20M	QPSK	1	0	-	Front	14mm	Ant 2	-	DSI 4	Full Power	56150	3641	1	23.28	24.00	1.180	62.9	1.006	0.06	0.055	0.065
	LTE Band 48	20M	QPSK	1	0	-	Back	21mm	Ant 2	-	DSI 4	Full Power	56150	3641	1	23.28	24.00	1.180	62.9	1.006	0.03	0.048	0.057
	FR1 n77 Part 270(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	Reduced	656000	3840	1	17.80	18.50	1.175	-	-	-0.02	0.352	0.414
	FR1 n77 Part 270(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	Reduced	656000	3840	1	17.88	18.50	1.153	-	-	-0.18	0.512	0.591
	FR1 n77 Part 270(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	Reduced	656000	3840	1	17.80	18.50	1.175	-	-	0.02	0.655	0.770
	FR1 n77 Part 270(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	Reduced	656000	3840	1	17.88	18.50	1.153	-	-	0.08	0.820	0.946
92	FR1 n77 Part 270(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	Reduced	656000	3840	1	17.05	18.50	1.396	-	-	-0.07	0.977	1.364
	FR1 n77 Part 270(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	Reduced	656000	3840	2	17.05	18.50	1.396	-	-	-0.05	0.918	1.282
	FR1 n77 Part 270(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	Headset	DSI 3	Reduced	656000	3840	1	17.05	18.50	1.396	-	-	-0.02	0.925	1.292
	FR1 n77 Part 270(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	14mm	Ant 2	-	DSI 4	Full Power	656000	3840	1	26.54	27.00	1.112	-	-	-0.02	0.113	0.126
	FR1 n77 Part 270(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Back	21mm	Ant 2	-	DSI 4	Full Power	656000	3840	1	25.23	26.00	1.194	-	-			



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FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	Reduced	633334	3500.01	1	17.65	18.50	1.216	-	-	-0.16	0.360	0.438
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	Reduced	633334	3500.01	1	18.06	18.50	1.107	-	-	0.03	0.484	0.536
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	Reduced	633334	3500.01	1	17.65	18.50	1.216	-	-	0.05	0.624	0.759
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	Reduced	633334	3500.01	1	18.06	18.50	1.107	-	-	-0.06	0.675	0.747
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	14mm	Ant 2	-	DSI 4	Full Power	633334	3500.01	1	26.49	27.00	1.125	-	-	0.13	0.073	0.082
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 2	-	DSI 4	Full Power	633334	3500.01	1	26.57	27.00	1.104	-	-	0.01	0.071	0.078
ENDC																						
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant2	-	DSI 3	Reduced	656000	3840	1	14.34	15.00	1.164	-	-	0.18	0.169	0.197
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant2	-	DSI 3	Reduced	656000	3840	1	14.53	15.00	1.114	-	-	-0.17	0.246	0.274
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant2	-	DSI 3	Reduced	656000	3840	1	14.34	15.00	1.164	-	-	0.15	0.315	0.367
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant2	-	DSI 3	Reduced	656000	3840	1	14.53	15.00	1.114	-	-	0.19	0.394	0.439
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	14mm	Ant 2	-	DSI 4	Full Power	656000	3840	1	26.54	27.00	1.112	-	-	-0.02	0.054	0.060
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	21mm	Ant 2	-	DSI 4	Full Power	656000	3840	1	26.54	27.00	1.112	-	-	0.02	0.055	0.061
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant2	-	DSI 3	Reduced	633334	3500.01	1	14.48	15.00	1.127	-	-	0.16	0.232	0.262
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant2	-	DSI 3	Reduced	633334	3500.01	1	14.59	15.00	1.099	-	-	0.1	0.311	0.342
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant2	-	DSI 3	Reduced	633334	3500.01	1	14.48	15.00	1.127	-	-	0.02	0.401	0.452
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant2	-	DSI 3	Reduced	633334	3500.01	1	14.59	15.00	1.099	-	-	-0.09	0.434	0.477
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	14mm	Ant 2	-	DSI 4	Full Power	633334	3500.01	1	26.49	27.00	1.125	-	-	0.02	0.047	0.053
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	21mm	Ant 2	-	DSI 4	Full Power	633334	3500.01	1	26.49	27.00	1.125	-	-	0.01	0.046	0.052

Plc No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch	Freq (MHz)	Sample	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 8	-	Standalone	6	2437	1	18.36	20.00	1.459	100	1.000	-0.18	0.489	0.713	
93	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8	-	Standalone	6	2437	1	18.36	20.00	1.459	100	1.000	0.01	0.797	1.163	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8	-	Standalone	11	2462	1	18.30	20.00	1.479	100	1.000	0.01	0.645	0.954	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8	-	Simultaneous	6	2437	1	10.51	12.00	1.409	100	1.000	-0.03	0.107	0.151	
	WLAN2.4GHz	802.11b 1Mbps	Front	14mm	Ant 8	-	Full	6	2437	1	21.37	23.00	1.455	100	1.000	0.02	0.051	0.075	
	WLAN2.4GHz	802.11b 1Mbps	Back	21mm	Ant 8	-	Full	6	2437	1	21.37	23.00	1.455	100	1.000	0.09	0.093	0.135	
	Bluetooth	1Mbps	Front	5mm	Ant 8	-	Full	78	2480	1	14.23	15.00	1.195	76.79	1.302	0.03	0.048	0.075	
94	Bluetooth	1Mbps	Back	5mm	Ant 8	-	Full	78	2480	1	14.23	15.00	1.195	76.79	1.302	0.02	0.069	0.107	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	-	Standalone	58	5290	1	11.66	13.50	1.528	90.28	1.108	0.12	0.064	0.108	
95	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	58	5290	1	11.66	13.50	1.528	90.28	1.108	-0.05	0.702	1.188	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Simultaneous	58	5290	1	4.33	6.00	1.469	90.28	1.108	0.03	0.121	0.197	
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	14mm	Ant 8	-	Full	54	5270	1	19.24	20.50	1.337	94.68	1.056	0.08	0.021	0.030	
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	21mm	Ant 8	-	Full	54	5270	1	19.24	20.50	1.337	94.68	1.056	0.06	0.128	0.181	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	-	Standalone	106	5530	1	10.87	12.50	1.455	90.28	1.108	0.02	0.062	0.100	
96	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	106	5530	1	10.87	12.50	1.455	90.28	1.108	0.03	0.727	1.172	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Simultaneous	106	5530	1	3.38	5.00	1.452	90.28	1.108	0.04	0.119	0.191	
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	14mm	Ant 8	-	Full	110	5550	1	18.99	20.50	1.416	94.68	1.056	0.03	0.011	0.017	
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	21mm	Ant 8	-	Full	110	5550	1	18.99	20.50	1.416	94.68	1.056	0.01	0.107	0.160	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	-	Standalone	155	5775	1	11.66	13.50	1.528	90.28	1.108	0.02	0.099	0.168	
97	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	155	5775	1	11.66	13.50	1.528	90.28	1.108	0.02	0.699	1.183	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	155	5775	2	11.66	13.50	1.528	90.28	1.108	0.08	0.687	1.163	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Simultaneous	155	5775	1	4.76	6.50	1.493	90.28	1.108	0.01	0.111	0.184	
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	14mm	Ant 8	-	Full	151	5755	1	19.18	20.50	1.356	94.68	1.056	0.03	0.005	0.007	
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	21mm	Ant 8	-	Full	151	5755	1	19.18	20.50	1.356	94.68	1.056	0.03	0.130	0.186	



15.4 Product specific 10g SAR

Plc No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
750MHz																				
98	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 4	Full Power	23230	782	1	22.84	24.00	1.306	-0.04	1.620	2.116
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	DSI 4	Full Power	23230	782	1	21.88	23.00	1.294	-0.07	1.500	1.941
	LTE Band 13	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 4	Full Power	23230	782	1	21.81	23.00	1.315	0.01	1.480	1.947
ENDC																				
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	23230	782	1	20.24	22.00	1.500	-0.06	1.170	1.755
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	23230	782	1	19.06	21.00	1.563	-0.13	1.080	1.688
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 6	Full Power	23230	782	1	22.84	24.00	1.306	-0.13	0.131	0.171
99	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 4	Full Power	23330	793	1	22.89	24.00	1.291	0.05	1.580	2.040
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	DSI 4	Full Power	23330	793	1	21.86	23.00	1.300	-0.02	1.390	1.807
	LTE Band 14	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 4	Full Power	23330	793	1	21.85	23.00	1.303	-0.02	1.210	1.577
ENDC																				
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	23330	793	1	21.22	23.00	1.507	-0.06	1.130	1.702
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	23330	793	1	20.18	22.00	1.521	0.13	0.986	1.499
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 4	Full Power	23330	793	1	22.89	24.00	1.291	0.03	0.126	0.163
	LTE Band 14	10M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 4	Full Power	23330	793	1	23.09	24.00	1.233	-0.03	1.020	1.258
	LTE Band 14	10M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 4	Full Power	23330	793	2	23.09	24.00	1.233	-0.03	0.859	1.059
835MHz																				
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 4	Full Power	189	836.4	1	29.79	31.00	1.321	-0.17	1.670	2.207
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 4	Full Power	128	824.2	1	29.67	31.00	1.358	0.15	1.750	2.377
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 4	Full Power	251	848.8	1	29.75	31.00	1.334	0.14	1.710	2.280
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 4	Full Power	189	836.4	1	29.79	31.00	1.321	0.06	2.200	2.907
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 4	Full Power	128	824.2	1	29.67	31.00	1.358	-0.16	2.120	2.880
100	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 4	Full Power	251	848.8	1	29.75	31.00	1.334	-0.03	2.220	2.960
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 4	Full Power	251	848.8	2	29.75	31.00	1.334	0.05	2.080	2.774
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 4	Full Power	4182	836.4	1	23.24	24.00	1.191	0.1	1.610	1.918
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 4	Full Power	4182	836.4	1	23.24	24.00	1.191	0.15	2.240	2.668
101	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 4	Full Power	4132	826.4	1	23.22	24.00	1.197	-0.08	2.400	2.872
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 4	Full Power	4233	846.6	1	23.21	24.00	1.199	0.04	2.320	2.783
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 4	Full Power	26865	831.5	1	22.89	24.00	1.291	-0.07	1.360	1.756
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 0	DSI 4	Full Power	26865	831.5	1	21.84	23.00	1.306	-0.15	1.090	1.424
102	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 4	Full Power	26865	831.5	1	22.89	24.00	1.291	0.18	2.020	2.608
	LTE Band 5B	10M	QPSK	1	49	-	Bottom Side	0mm	Ant 0	DSI 4	Full Power	20525+20597	836.5+843.7	1	22.73	24.00	1.340	0.08	1.870	2.505
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	0mm	Ant 0	DSI 4	Full Power	26865	831.5	1	21.84	23.00	1.306	-0.16	1.590	2.077
	LTE Band 26	15M	QPSK	75	0	-	Bottom Side	0mm	Ant 0	DSI 4	Full Power	26865	831.5	1	21.88	23.00	1.294	-0.12	1.560	2.019
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 4	Full Power	26865	831.5	1	23.17	24.00	1.211	-0.08	1.090	1.320
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 1	DSI 4	Full Power	26865	831.5	1	22.08	23.00	1.236	0.19	0.837	1.034
	LTE Band 26	15M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 4	Full Power	26865	831.5	1	23.17	24.00	1.211	-0.02	1.380	1.671
	LTE Band 26	15M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 4	Full Power	26865	831.5	2	23.17	24.00	1.211	0.01	1.130	1.368
	LTE Band 26	15M	QPSK	36	0	-	Top Side	0mm	Ant 1	DSI 4	Full Power	26865	831.5	1	22.08	23.00	1.236	-0.01	0.931	1.151
ENDC																				
	LTE Band 26	15M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 4	Full Power	26865	831.5	1	23.17	24.00	1.211	-0.02	1.336	1.617
ENDC																				
	LTE Band 5	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Reduced	20525	836.5	1	19.83	21.50	1.469	-0.05	0.713	1.047
	LTE Band 5	10M	QPSK	25	0	-	Back	0mm	Ant 0	DSI 6	Reduced	20525	836.5	1	18.67	20.50	1.524	-0.12	0.572	0.872
103	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	20525	836.5	1	19.83	21.50	1.469	-0.09	1.060	1.557
	LTE Band 5	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	20525	836.5	1	18.67	20.50	1.524	-0.06	0.835	1.273
	LTE Band 5	10M	QPSK	1	0	-	Back	14mm	Ant 0	DSI 4	Full Power	20525	836.5	1	22.83	24.00	1.309	-0.05	0.103	0.135
	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 4	Full Power	20525	836.5	1	22.83	24.00	1.309	0.03	0.132	0.173
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	Reduced	1413	1732.6	1	20.06	21.00	1.242	-0.12	2.670	3.315



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104	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	Reduced	1312	1712.4	1	20.03	21.00	1.250	-0.04	2.760	3.451
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	Reduced	1513	1752.6	1	20.05	21.00	1.245	-0.05	2.620	3.261
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	Reduced	1413	1732.6	1	20.06	21.00	1.242	0.14	2.590	3.216
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	Reduced	1312	1712.4	1	20.03	21.00	1.250	0.08	2.560	3.201
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	Reduced	1513	1752.6	1	20.05	21.00	1.245	0.02	2.630	3.273
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	14mm	Ant 0	DSI 6	Full Power	1312	1712.4	1	23.13	24.00	1.222	-0.18	0.673	0.822
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	14mm	Ant 0	DSI 6	Full Power	1513	1752.6	1	23.12	24.00	1.225	0.18	0.715	0.876
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Reduced	132322	1745	1	19.90	21.50	1.445	0.05	2.310	3.339
105	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Reduced	132072	1720	1	19.83	21.50	1.469	-0.01	2.330	3.423
	LTE Band 66C	20M	QPSK	1	99	-	Back	0mm	Ant 0	DSI 6	Reduced	132322+1745+132520	1745+1764.8	1	19.78	21.50	1.486	0.05	1.418	2.107
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Reduced	132572	1770	1	19.76	21.50	1.493	-0.17	2.140	3.195
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	Reduced	132322	1745	1	19.12	20.50	1.374	-0.13	1.840	2.528
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	Reduced	132072	1720	1	19.03	20.50	1.403	0.06	1.910	2.679
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	Reduced	132572	1770	1	18.91	20.50	1.442	0.1	1.790	2.581
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	Reduced	132322	1745	1	19.08	20.50	1.387	0.05	1.760	2.441
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	132322	1745	1	19.90	21.50	1.445	0.16	2.130	3.079
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	132072	1720	1	19.83	21.50	1.469	0.06	2.220	3.261
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	132572	1770	1	19.76	21.50	1.493	-0.12	1.730	2.583
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	132322	1745	1	19.12	20.50	1.374	0.18	1.690	2.322
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	132072	1720	1	19.03	20.50	1.403	-0.02	1.800	2.525
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	132572	1770	1	18.91	20.50	1.442	0.12	1.620	2.336
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	132322	1745	1	19.08	20.50	1.387	-0.05	1.620	2.247
	LTE Band 66	20M	QPSK	1	0	-	Back	14mm	Ant 0	DSI 2	Full Power	132072	1720	1	22.75	24.00	1.334	0.18	0.154	0.205
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 2	Full Power	132072	1720	1	22.75	24.00	1.334	0.12	0.159	0.212
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	Reduced	132322	1745	1	20.36	21.50	1.300	0.02	1.300	1.690
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	Reduced	132322	1745	1	19.39	20.50	1.291	-0.11	1.120	1.446
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	132322	1745	1	20.36	21.50	1.300	-0.16	1.900	2.470
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	132072	1720	1	20.31	21.50	1.315	0.03	1.700	2.236
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	132572	1770	1	20.17	21.50	1.358	-0.02	1.930	2.622
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	132322	1745	1	19.39	20.50	1.291	-0.04	1.560	2.014
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	132072	1720	1	19.38	20.50	1.294	0.01	1.578	2.042
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	132572	1770	1	19.18	20.50	1.355	0.17	1.690	2.290
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	132322	1745	1	19.36	20.50	1.300	0.11	1.480	1.924
	LTE Band 66	20M	QPSK	1	0	-	Top Side	9mm	Ant 1	DSI 4	Full Power	132572	1770	1	23.07	24.00	1.239	-0.14	0.159	0.197
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 4	Full Power	132322	1745	1	23.25	24.00	1.189	0.06	0.055	0.065
ENDC																				
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Reduced	132322	1745	1	17.83	19.00	1.309	-0.06	1.430	1.872
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	Reduced	132322	1745	1	16.82	18.00	1.312	-0.11	1.280	1.680
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	132322	1745	1	17.83	19.00	1.309	-0.13	1.470	1.924
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	132322	1745	1	16.82	18.00	1.312	-0.05	1.170	1.535
	LTE Band 66	20M	QPSK	1	0	-	Back	14mm	Ant 0	DSI 4	Full Power	132322	1745	1	22.77	24.00	1.327	0.17	0.066	0.088
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 4	Full Power	132322	1745	1	22.77	24.00	1.327	-0.15	0.068	0.090
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	Reduced	132322	1745	1	18.06	19.00	1.242	-0.14	0.959	1.191
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	Reduced	132322	1745	1	17.08	18.00	1.236	-0.1	0.712	0.880
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	132322	1745	1	18.06	19.00	1.242	-0.04	1.210	1.502
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	132322	1745	1	17.08	18.00	1.236	-0.17	0.996	1.231
	LTE Band 66	20M	QPSK	1	0	-	Top Side	9mm	Ant 1	DSI 4	Full Power	132322	1745	1	23.25	24.00	1.189	-0.09	0.159	0.189
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 4	Full Power	132322	1745	1	23.25	24.00	1.189	0.09	0.055	0.065
106	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	Full Power	340500	1702.5	1	22.96	24.00	1.271	-0.03	2.520	3.202
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	Full Power	340500	1702.5	1	23.01	24.00	1.256	0.16	1.938	2.434
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	Full Power	340500	1702.5	1	21.92	23.00	1.282	0.03	1.911	2.451
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	Full Power	340500	1702.5	1	22.96	24.00	1.271	0.07	2.142	2.722
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	Full Power	340500	1702.5	1	23.01	24.00	1.256	-0.16	1.735	2.179
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	Full Power	340500	1702.5	1	21.92	23.00	1.282	-0.14	1.689	2.166
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 4	Full Power	349000	1745	1	22.54	24.00	1.400	-0.03	2.400	3.359
107	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 4	Full Power	349000	1745	1	22.63	24.00	1.371	-0.09	2.530	3.468



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	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 4	Full Power	349000	1745	2	22.63	24.00	1.371	0.06	2.210	3.030
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 4	Full Power	349000	1745	1	21.74	23.00	1.337	-0.01	1.870	2.499
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 4	Full Power	349000	1745	1	22.54	24.00	1.400	-0.04	2.250	3.149
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 4	Full Power	349000	1745	1	22.63	24.00	1.371	-0.12	2.450	3.359
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 4	Full Power	349000	1745	1	21.74	23.00	1.337	0.06	1.770	2.366
ENDC																				
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant0	DSI 6	Reduced	349000	1745	1	18.10	20.00	1.549	-0.05	1.190	1.843
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant0	DSI 6	Reduced	349000	1745	1	18.12	20.00	1.542	-0.08	1.270	1.958
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant0	DSI 6	Reduced	349000	1745	1	18.10	20.00	1.549	-0.03	1.110	1.719
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant0	DSI 6	Reduced	349000	1745	1	18.12	20.00	1.542	0.08	1.210	1.865
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	14mm	Ant0	DSI 4	Full Power	349000	1745	1	22.63	24.00	1.371	0.07	0.173	0.237
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	14mm	Ant0	DSI 4	Full Power	349000	1745	1	22.63	24.00	1.371	0.05	0.163	0.223
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant1	DSI 6	Reduced	349000	1745	1	20.28	21.00	1.180	-0.13	0.815	0.962
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant1	DSI 6	Reduced	349000	1745	1	20.29	21.00	1.178	0.05	0.970	1.142
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant1	DSI 6	Reduced	349000	1745	1	20.28	21.00	1.180	0.15	0.847	1.000
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant1	DSI 6	Reduced	349000	1745	1	20.29	21.00	1.178	-0.01	1.080	1.272
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant1	DSI 4	Full Power	349000	1745	1	22.62	24.00	1.374	0.12	0.123	0.169
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	9mm	Ant1	DSI 4	Full Power	349000	1745	1	22.62	24.00	1.374	-0.08	0.373	0.513

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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 (4 Tx slots)	Back	0mm	Ant 0	DSI 6	Reduced	661	1880	1	24.51	26.00	1.409	0.06	2.260	3.185
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	DSI 6	Reduced	512	1850.2	1	24.32	26.00	1.472	0.04	2.310	3.401
108	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	DSI 6	Reduced	810	1909.8	1	24.32	26.00	1.472	0.05	2.330	3.430
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	Reduced	661	1880	1	24.51	26.00	1.409	-0.02	2.130	3.002
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	Reduced	512	1850.2	1	24.32	26.00	1.472	-0.03	1.980	2.915
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	Reduced	810	1909.8	1	24.32	26.00	1.472	0.01	1.910	2.812
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	14mm	Ant 0	DSI 2	Full Power	810	1909.8	1	25.70	27.00	1.349	-0.09	0.241	0.325
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	14mm	Ant 0	DSI 2	Full Power	661	1880	1	25.76	27.00	1.330	-0.07	0.278	0.370
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	Reduced	9400	1880	1	19.83	21.00	1.309	-0.08	2.420	3.168
109	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	Reduced	9262	1852.4	1	19.67	21.00	1.358	-0.02	2.480	3.369
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	Reduced	9538	1907.6	1	19.67	21.00	1.358	-0.17	2.420	3.287
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	Reduced	9400	1880	1	19.83	21.00	1.309	-0.14	1.930	2.527
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	Reduced	9262	1852.4	1	19.67	21.00	1.358	-0.07	2.030	2.757
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	Reduced	9538	1907.6	1	19.67	21.00	1.358	-0.03	1.800	2.445
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	14mm	Ant 0	DSI 2	Full Power	9262	1852.4	1	23.04	24.00	1.247	0.05	0.493	0.615
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	14mm	Ant 0	DSI 2	Full Power	9262	1852.4	1	23.04	24.00	1.247	0.04	0.634	0.791
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Reduced	26340	1880	1	19.36	21.00	1.459	0.12	2.280	3.326
110	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Reduced	26140	1860	1	19.29	21.00	1.483	-0.02	2.330	3.454
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Reduced	26590	1905	1	19.24	21.00	1.500	-0.03	2.240	3.359
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	Reduced	26340	1880	1	18.49	20.00	1.416	-0.04	1.910	2.704
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	Reduced	26140	1860	1	18.46	20.00	1.426	-0.05	1.930	2.751
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	Reduced	26590	1905	1	18.32	20.00	1.472	-0.03	1.870	2.753
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	Reduced	26340	1880	1	18.53	20.00	1.403	-0.18	1.870	2.623
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	26340	1880	1	19.36	21.00	1.459	-0.11	1.890	2.757
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	26140	1860	1	19.29	21.00	1.483	-0.18	2.010	2.980
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	26590	1905	1	19.24	21.00	1.500	-0.04	1.790	2.684
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	26340	1880	1	18.49	20.00	1.416	0.04	1.510	2.138
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	26140	1860	1	18.46	20.00	1.426	-0.08	1.610	2.295
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	26590	1905	1	18.32	20.00	1.472	-0.14	1.430	2.105
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	26340	1880	1	18.53	20.00	1.403	0.11	1.480	2.076
	LTE Band 25	20M	QPSK	1	0	-	Back	14mm	Ant 0	DSI 2	Full Power	26140	1860	1	22.58	24.00	1.387	-0.15	0.475	0.659
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 2	Full Power	26140	1860	1	22.58	24.00	1.387	-0.15	0.580	0.804
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	Reduced	26340	1880	1	18.27	19.50	1.327	0.17	1.213	1.610
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	Reduced	26340	1880	1	17.36	18.50	1.300	-0.15	0.984	1.279

Sporton International Inc. (Kunshan)

TEL : 86-512-57900158 / FAX : 86-512-57900958

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	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	26340	1880	1	18.27	19.50	1.327	-0.15	2.010	2.668
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	26140	1860	1	18.23	19.50	1.340	0.07	2.020	2.706
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	26140	1860	2	18.23	19.50	1.340	0.03	1.989	2.665
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	26590	1905	1	18.19	19.50	1.352	0.03	1.910	2.582
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	26340	1880	1	17.36	18.50	1.300	0.11	1.676	2.179
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	26140	1860	1	17.29	18.50	1.321	0.01	1.980	2.616
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	26590	1905	1	17.16	18.50	1.361	-0.19	1.970	2.682
	LTE Band 25	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	Reduced	26340	1880	1	17.32	18.50	1.312	0.11	1.645	2.159
	LTE Band 25	20M	QPSK	1	0	-	Top Side	9mm	Ant 1	DSI 2	Full Power	26140	1860	1	22.89	24.00	1.291	-0.04	1.040	1.343
	LTE Band 25	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 2	Full Power	26340	1880	1	22.94	24.00	1.276	0.13	0.408	0.521
ENDC																				
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant0	DSI 6	Reduced	26340	1880	1	17.51	18.50	1.256	-0.04	1.550	1.947
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant0	DSI 6	Reduced	26340	1880	1	16.81	17.50	1.172	-0.08	1.400	1.641
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant0	DSI 6	Reduced	26340	1880	1	17.51	18.50	1.256	-0.13	1.390	1.746
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant0	DSI 6	Reduced	26340	1880	1	16.81	17.50	1.172	0.1	1.110	1.301
	LTE Band 25	20M	QPSK	1	0	-	Back	14mm	Ant0	DSI 4	Full Power	26340	1880	1	22.67	24.00	1.358	-0.15	0.450	0.611
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	14mm	Ant0	DSI 4	Full Power	26340	1880	1	22.67	24.00	1.358	-0.17	0.568	0.772
	FR1 n25	40M	QPSK	1	108	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 4	Full Power	376500	1882.5	1	22.72	24.00	1.343	0.06	2.110	2.833
111	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 4	Full Power	376500	1882.5	1	22.74	24.00	1.337	-0.08	2.480	3.315
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 4	Full Power	376500	1882.5	1	21.65	23.00	1.365	0.07	1.960	2.675
	FR1 n25	40M	QPSK	1	108	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 4	Full Power	376500	1882.5	1	22.72	24.00	1.343	-0.12	1.930	2.592
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 4	Full Power	376500	1882.5	1	22.74	24.00	1.337	-0.03	2.030	2.713
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 4	Full Power	376500	1882.5	1	21.65	23.00	1.365	-0.02	1.790	2.443
ENDC																				
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant0	DSI 6	Reduced	376500	1882.5	1	20.58	21.50	1.236	-0.03	1.520	1.879
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant0	DSI 6	Reduced	376500	1882.5	1	20.61	21.50	1.227	-0.02	1.610	1.976
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant0	DSI 6	Reduced	376500	1882.5	1	20.58	21.50	1.236	0.03	1.310	1.619
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant0	DSI 6	Reduced	376500	1882.5	1	20.61	21.50	1.227	0.07	1.380	1.694
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	14mm	Ant0	DSI 2	Full Power	376500	1882.5	1	22.74	24.00	1.337	0.19	0.257	0.344
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	14mm	Ant0	DSI 2	Full Power	376500	1882.5	1	22.74	24.00	1.337	0.05	0.312	0.417
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant1	DSI 6	Reduced	376500	1882.5	1	19.18	19.50	1.076	-0.01	0.563	0.606
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant1	DSI 6	Reduced	376500	1882.5	1	19.21	19.50	1.069	0.13	0.653	0.698
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant1	DSI 6	Reduced	376500	1882.5	1	19.18	19.50	1.076	-0.03	0.885	0.953
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant1	DSI 6	Reduced	376500	1882.5	1	19.21	19.50	1.069	-0.02	0.965	1.032
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant1	DSI 6	Full Power	376500	1882.5	1	23.13	24.00	1.222	-0.02	0.249	0.304
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	9mm	Ant1	DSI 6	Full Power	376500	1882.5	1	23.13	24.00	1.222	-0.03	0.612	0.748
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Reduced	27710	2310	1	21.44	22.50	1.276	0.04	1.530	1.953
	LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant 0	DSI 6	Reduced	27710	2310	1	20.22	21.50	1.343	0.02	1.300	1.746
112	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	27710	2310	1	21.44	22.50	1.276	-0.08	2.670	3.408
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	27710	2310	1	20.22	21.50	1.343	-0.13	2.110	2.833
	LTE Band 30	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	27710	2310	1	20.27	21.50	1.327	-0.14	2.080	2.761
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 2	Full Power	27710	2310	1	22.85	24.00	1.303	0.03	0.413	0.538
	LTE Band 30	10M	QPSK	1	0	-	Back	14mm	Ant 0	DSI 2	Full Power	27710	2310	1	22.85	24.00	1.303	0.05	0.306	0.399
ENDC																				
	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant0	DSI 6	Reduced	27710	2310	1	17.35	19.00	1.462	0.04	0.691	1.010
	LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant0	DSI 6	Reduced	27710	2310	1	16.24	18.00	1.500	0.11	0.553	0.829
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant0	DSI 6	Reduced	27710	2310	1	17.35	19.00	1.462	-0.05	1.130	1.652
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	0mm	Ant0	DSI 6	Reduced	27710	2310	1	16.24	18.00	1.500	0.09	0.894	1.341
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	14mm	Ant0	DSI 2	Full Power	27710	2310	1	22.85	24.00	1.303	0.18	0.413	0.538
	LTE Band 30	10M	QPSK	1	0	-	Back	14mm	Ant0	DSI 2	Full Power	27710	2310	1	22.85	24.00	1.303	0.13	0.306	0.399
ENDC																				
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant0	DSI 6	Reduced	462000	2310	1	19.03	21.00	1.574	0.07	0.589	0.927
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant0	DSI 6	Reduced	462000	2310	1	19.06	21.00	1.563	-0.12	0.584	0.913
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant0	DSI 6	Reduced	462000	2310	1	19.03	21.00	1.574	-0.12	0.987	1.554
113	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	0mm	Ant0	DSI 6	Reduced	462000	2310	1	19.06	21.00	1.563	-0.08	1.020	1.594



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FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	14mm	Ant0	DSI 4	Full Power	462000	2310	1	22.57	24.00	1.390	0.16	0.165	0.229
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	14mm	Ant0	DSI 4	Full Power	462000	2310	1	22.45	24.00	1.429	0.01	0.228	0.326
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant1	DSI 6	Reduced	462000	2310	1	17.10	18.00	1.230	0.01	0.918	1.129
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant1	DSI 6	Reduced	462000	2310	1	17.12	18.00	1.225	-0.06	0.946	1.158
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant1	DSI 6	Reduced	462000	2310	1	17.10	18.00	1.230	-0.14	1.010	1.243
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	0mm	Ant1	DSI 6	Reduced	462000	2310	1	17.12	18.00	1.225	-0.02	1.080	1.323
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	9mm	Ant1	DSI 4	Full Power	462000	2310	1	22.78	24.00	1.324	0.17	0.933	1.236
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	15mm	Ant1	DSI 4	Full Power	462000	2310	1	22.78	24.00	1.324	0.15	0.424	0.562

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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	-	Back	0mm	Ant 0	DSI 6	Reduced	21100	2535	1	21.26	22.50	1.330	-	-	-0.05	2.430	3.233
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Reduced	20850	2510	1	21.22	22.50	1.343	-	-	0.11	2.310	3.102
114	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Reduced	21350	2560	1	21.24	22.50	1.337	-	-	-0.02	2.520	3.368
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	Reduced	21100	2535	1	20.30	21.50	1.318	-	-	0.17	1.950	2.571
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	Reduced	20850	2510	1	20.14	21.50	1.368	-	-	0.15	1.860	2.544
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	Reduced	21350	2560	1	20.28	21.50	1.324	-	-	-0.14	2.030	2.688
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	Reduced	21100	2535	1	20.28	21.50	1.324	-	-	0.14	1.950	2.582
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	21100	2535	1	21.26	22.50	1.330	-	-	0.07	1.610	2.142
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	20850	2510	1	21.22	22.50	1.343	-	-	-0.16	1.580	2.122
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	21350	2560	1	21.24	22.50	1.337	-	-	-0.03	1.580	2.112
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	21100	2535	1	20.30	21.50	1.318	-	-	0.09	1.280	1.687
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	21100	2535	1	20.28	21.50	1.324	-	-	0.13	1.160	1.536
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 2	Full Power	21100	2535	1	22.62	24.00	1.374	-	-	-0.12	0.229	0.315
	LTE Band 7	20M	QPSK	1	0	-	Back	14mm	Ant 0	DSI 2	Full Power	21350	2560	1	22.49	24.00	1.416	-	-	0.09	0.279	0.395
ENDC																						
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant0	DSI 6	Reduced	21100	2535	1	18.19	20.00	1.517	-	-	-0.07	1.080	1.638
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant0	DSI 6	Reduced	21100	2535	1	17.34	19.00	1.466	-	-	-0.09	0.867	1.271
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant0	DSI 6	Reduced	21100	2535	1	18.19	20.00	1.517	-	-	0.1	0.713	1.082
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant0	DSI 6	Reduced	21100	2535	1	17.34	19.00	1.466	-	-	-0.01	0.569	0.834
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	14mm	Ant0	DSI 2	Full Power	21100	2535	1	22.62	24.00	1.374	-	-	0.01	0.229	0.315
	LTE Band 7	20M	QPSK	1	0	-	Back	14mm	Ant0	DSI 2	Full Power	21100	2535	1	22.62	24.00	1.374	-	-	-0.1	0.279	0.383
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant1	DSI 6	Reduced	21100	2535	1	19.48	20.00	1.127	-	-	-0.08	1.270	1.432
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant1	DSI 6	Reduced	21100	2535	2	19.48	20.00	1.127	-	-	0.07	1.150	1.296
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant1	DSI 6	Reduced	21100	2535	1	19.42	20.00	1.143	-	-	-0.13	1.030	1.177
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant1	DSI 6	Reduced	21100	2535	1	19.48	20.00	1.127	-	-	-0.18	1.160	1.308
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant1	DSI 6	Reduced	21100	2535	1	19.42	20.00	1.143	-	-	0.06	0.961	1.098
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant1	DSI 2	Full Power	21100	2535	1	23.29	24.00	1.178	-	-	-0.1	0.543	0.639
	LTE Band 7	20M	QPSK	1	0	-	Top Side	9mm	Ant1	DSI 2	Full Power	21100	2535	1	23.29	24.00	1.178	-	-	-0.15	1.110	1.307
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Full Power	41490	2680	1	22.67	24.00	1.358	62.9	1.006	-0.14	1.770	2.419
	LTE Band 41C	20M	QPSK	1	99	-	Back	0mm	Ant 0	DSI 6	Full Power	41490+41292	2680+260.2	1	22.56	24.00	1.393	62.9	1.006	-0.03	1.620	2.270
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Full Power	39750	2506	1	22.56	24.00	1.393	62.9	1.006	-0.14	1.580	2.214
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Full Power	40185	2549.5	1	22.63	24.00	1.371	62.9	1.006	-0.14	1.610	2.220
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Full Power	40620	2593	1	22.74	24.00	1.337	62.9	1.006	0.05	1.570	2.111
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Full Power	41055	2636.5	1	22.71	24.00	1.346	62.9	1.006	-0.14	1.690	2.288
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Full Power	41490	2680	1	22.67	24.00	1.358	62.9	1.006	-0.14	1.570	2.145
115	LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Full Power	41490	2680	1	25.62	27.00	1.374	42.9	1.009	-0.03	2.520	3.494
	LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	Full Power	41490	2680	2	25.62	27.00	1.374	42.9	1.009	0.05	2.150	2.981
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 6	Reduced	518598	2592.99	1	23.97	24.50	1.130	-	-	0.15	2.208	2.495
116	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 6	Reduced	518598	2592.99	1	23.99	24.50	1.125	-	-	0.03	2.900	3.261
	FR1 n41-HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 6	Reduced	518598	2592.99	1	23.96	24.50	1.132	-	-	0.02	2.400	2.718
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 0	DSI 6	Reduced	518598	2592.99	1	23.97	24.50	1.130	-	-	-0.1	1.235	1.395
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 0	DSI 6	Reduced	518598	2592.99	1	23.99	24.50	1.125	-	-	0.04	1.771	1.992
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	14mm	Ant 0	DSI 4	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-	-0.08	0.354	0.412



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	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	14mm	Ant 0	DSI 4	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-	0.17	0.069	0.081
ENDC																						
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant0	DSI 6	Reduced	518598	2592.99	1	20.11	21.50	1.377	-	-	0.04	0.822	1.132
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant0	DSI 6	Reduced	518598	2592.99	1	20.12	21.50	1.374	-	-	-0.07	1.080	1.484
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant0	DSI 6	Reduced	518598	2592.99	1	20.11	21.50	1.377	-	-	-0.11	0.460	0.634
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant0	DSI 6	Reduced	518598	2592.99	1	20.12	21.50	1.374	-	-	0.03	0.669	0.919
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	14mm	Ant0	DSI 4	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-	0.03	0.284	0.331
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	14mm	Ant0	DSI 4	Full Power	518598	2592.99	1	26.34	27.00	1.164	-	-		0.220	0.256
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant1	DSI 6	Reduced	518598	2592.99	1	20.95	21.50	1.135	-	-	-0.11	0.975	1.107
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant1	DSI 6	Reduced	518598	2592.99	1	21.01	21.50	1.119	-	-	-0.01	1.140	1.276
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant1	DSI 6	Reduced	518598	2592.99	1	20.95	21.50	1.135	-	-	-0.15	0.584	0.663
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant1	DSI 6	Reduced	518598	2592.99	1	21.01	21.50	1.119	-	-	0.07	0.705	0.789
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant1	DSI 6	Reduced	518598	2592.99	1	20.95	21.50	1.135	-	-	0.1	1.000	1.135
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant1	DSI 6	Reduced	518598	2592.99	1	21.01	21.50	1.119	-	-	-0.03	1.080	1.209
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant1	DSI 4	Full Power	518598	2592.99	1	25.74	27.00	1.337	-	-	0.04	0.304	0.406
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	6mm	Ant1	DSI 4	Full Power	518598	2592.99	1	25.74	27.00	1.337	-	-	0.1	0.602	0.805
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	9mm	Ant1	DSI 4	Full Power	518598	2592.99	1	25.74	27.00	1.337	-	-	-0.02	0.800	1.069
3300-4100MHz																						
	LTE Band 48	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 4	Full Power	56150	3641	1	23.28	24.00	1.180	62.9	1.006	0.14	0.438	0.520
	LTE Band 48	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 4	Full Power	56150	3641	1	22.23	23.00	1.194	62.9	1.006	0.17	0.489	0.587
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	Reduced	56150	3641	1	20.74	22.00	1.337	62.9	1.006	-0.18	1.153	1.550
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	Reduced	56150	3641	1	19.69	21.00	1.352	62.9	1.006	0.17	0.899	1.223
	LTE Band 48	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6	Reduced	56150	3641	1	20.74	22.00	1.337	62.9	1.006	0.11	1.715	2.306
	LTE Band 48	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6	Reduced	55340	3560	1	20.44	22.00	1.432	62.9	1.006	0.09	1.545	2.226
	LTE Band 48	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6	Reduced	55830	3609	1	20.39	22.00	1.449	62.9	1.006	0.11	1.735	2.529
117	LTE Band 48	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6	Reduced	56640	3690	1	20.57	22.00	1.390	62.9	1.006	0.05	1.840	2.573
	LTE Band 48C	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6	Reduced	56640+ 56442	3690+ 3670.2	1	20.93	22.00	1.279	62.9	1.006	-0.17	1.790	2.304
	LTE Band 48	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 6	Reduced	56150	3641	1	19.69	21.00	1.352	62.9	1.006	-0.1	1.351	1.838
	LTE Band 48	20M	QPSK	100	0	-	Top Side	0mm	Ant 2	DSI 6	Reduced	56150	3641	1	19.57	21.00	1.390	62.9	1.006	-0.09	1.333	1.864
	LTE Band 48	20M	QPSK	1	0	-	Back	6mm	Ant 2	DSI 2	Full Power	56150	3641	1	23.28	24.00	1.180	62.9	1.006	-0.02	0.333	0.395
	LTE Band 48	20M	QPSK	1	0	-	Top Side	7mm	Ant 2	DSI 2	Full Power	56640	3690	1	23.23	24.00	1.194	62.9	1.006	0.14	0.790	0.949
ENDC																						
	LTE Band 48	20M	QPSK	1	0	-	Front	0mm	Ant2	DSI 4	Full Power	56150	3641	1	23.28	24.00	1.180	62.9	1.006	0.14	0.438	0.520
	LTE Band 48	20M	QPSK	50	0	-	Front	0mm	Ant2	DSI 4	Full Power	56150	3641	1	22.23	23.00	1.194	62.9	1.006	0.14	0.489	0.587
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant2	DSI 6	Reduced	56150	3641	1	18.75	19.50	1.189	62.9	1.006	0.05	0.576	0.689
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant2	DSI 6	Reduced	56150	3641	1	17.70	18.50	1.202	62.9	1.006	-0.12	0.572	0.692
	LTE Band 48	20M	QPSK	1	0	-	Top Side	0mm	Ant2	DSI 6	Reduced	56150	3641	1	18.75	19.50	1.189	62.9	1.006	0.05	1.090	1.303
	LTE Band 48	20M	QPSK	50	0	-	Top Side	0mm	Ant2	DSI 6	Reduced	56150	3641	1	17.70	18.50	1.202	62.9	1.006	-0.06	0.859	1.039
	LTE Band 48	20M	QPSK	50	0	-	Back	6mm	Ant2	DSI 4	Full Power	56150	3641	1	22.23	23.00	1.194	62.9	1.006	0.04	0.333	0.400
	LTE Band 48	20M	QPSK	1	0	-	Top Side	7mm	Ant2	DSI 4	Full Power	56150	3641	1	23.28	24.00	1.180	62.9	1.006	0.01	0.790	0.938
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 4	Full Power	656000	3840	1	26.23	27.00	1.194	-	-	-0.05	2.666	3.183
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 4	Full Power	656000	3840	1	26.54	27.00	1.112	-	-	-0.07	2.587	2.876
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	Reduced	656000	3840	1	18.72	19.50	1.197	-	-	-0.04	0.983	1.176
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	Reduced	656000	3840	1	18.84	19.50	1.164	-	-	-0.18	1.210	1.409
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 2	DSI 6	Reduced	656000	3840	1	18.72	19.50	1.197	-	-	-0.05	1.610	1.927
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 2	DSI 6	Reduced	656000	3840	1	18.84	19.50	1.164	-	-	-0.17	1.780	2.072
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	0mm	Ant 2	DSI 6	Reduced	656000	3840	1	18.07	19.50	1.390	-	-	-0.06	1.600	2.224
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	6mm	Ant 2	DSI 4	Full Power	650000	3750	1	26.54	27.00	1.112	-	-	0.08	1.460	1.623
118	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	7mm	Ant 2	DSI 4	Full Power	650000	3750	1	25.23	26.00	1.194	-	-	-0.12	2.891	3.452
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	7mm	Ant 2	DSI 4	Full Power	650000	3750	2	25.23	26.00	1.194	-	-	0.02	2.891	3.452
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 4	Full Power	633334	3500.01	1	26.57	27.00	1.104	-	-	-0.06	2.680	2.959
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 4	Full Power	633334	3500.01	1	26.49	27.00	1.125	-	-	0.05	2.600	2.924
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	Reduced	633334	3500.01	1	18.53	19.50	1.250	-	-	0.15	0.729	0.911
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	Reduced	633334	3500.01	1	19.16	19.50	1.081	-	-	0.04	0.856	0.926
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 2	DSI 6	Reduced	633334	3500.01	1	18.53	19.50	1.250	-	-	0.1	0.837	1.046
	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 2	DSI 6	Reduced	633334	3500.01	1	19.16	19.50	1.081	-	-	0.07	1.140	1.233



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FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	6mm	Ant 2	DSI 4	Full Power	633334	3500.01	1	26.49	27.00	1.125	-	-	-0.19	1.420	1.597
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	7mm	Ant 2	DSI 4	Full Power	633334	3500.01	1	26.49	27.00	1.125	-	-	-0.05	3.030	3.408
ENDC																					
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant2	DSI 4	Full Power	656000	3840	1	26.23	27.00	1.194	-	-	0.17	2.559	3.055
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant2	DSI 4	Full Power	656000	3840	1	26.54	27.00	1.112	-	-	0.15	2.484	2.762
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant2	DSI 6	Reduced	656000	3840	1	17.25	18.00	1.189	-	-	-0.19	0.559	0.664
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant2	DSI 6	Reduced	656000	3840	1	17.47	18.00	1.130	-	-	0.17	0.690	0.780
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant2	DSI 6	Reduced	656000	3840	1	17.25	18.00	1.189	-	-	0.11	0.802	0.953
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant2	DSI 6	Reduced	656000	3840	1	17.47	18.00	1.130	-	-	0.05	0.381	0.430
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	6mm	Ant2	DSI 4	Full Power	650000	3750	1	26.54	27.00	1.112	-	-	-0.12	1.380	1.534
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	7mm	Ant2	DSI 4	Full Power	650000	3750	1	26.23	27.00	1.194	-	-	-0.03	2.890	3.451
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant2	DSI 4	Full Power	633334	3500.01	1	26.57	27.00	1.104	-	-	0.12	2.710	2.992
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant2	DSI 4	Full Power	633334	3500.01	1	26.49	27.00	1.125	-	-	-0.17	2.630	2.958
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant2	DSI 6	Reduced	633334	3500.01	1	17.46	18.00	1.132	-	-	0.03	0.534	0.605
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant2	DSI 6	Reduced	633334	3500.01	1	17.53	18.00	1.114	-	-	0.12	0.627	0.699
FR1 n77 Part 27Q(HPUE)	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant2	DSI 6	Reduced	633334	3500.01	1	17.46	18.00	1.132	-	-	0.11	0.613	0.694
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant2	DSI 6	Reduced	633334	3500.01	1	17.53	18.00	1.114	-	-	0.01	0.835	0.930
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	6mm	Ant2	DSI 4	Full Power	633334	3500.01	1	26.49	27.00	1.125	-	-	0.02	1.350	1.518
FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	7mm	Ant2	DSI 4	Full Power	633334	3500.01	1	26.49	27.00	1.125	-	-	0.13	3.060	3.441

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Sample	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																		
119	WLAN2.4GHZ	802.11b 1Mbps	Front	0mm	Ant 8	Standalone	6	2437	1	21.37	23.00	1.455	100	1.000	-0.06	1.020	1.485	
	WLAN2.4GHZ	802.11b 1Mbps	Front	0mm	Ant 8	Simultaneous	6	2437	1	16.37	18.00	1.455	100	1.000	0.02	0.328	0.477	
	WLAN2.4GHZ	802.11b 1Mbps	Back	0mm	Ant 8	Standalone	6	2437	1	21.37	23.00	1.455	100	1.000	0.06	0.864	1.258	
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	0mm	Ant 8	Standalone	6	2437	1	21.37	23.00	1.455	100	1.000	0.01	0.661	0.962	
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	0mm	Ant 8	Standalone	6	2437	1	21.37	23.00	1.455	100	1.000	-0.08	0.952	1.386	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Back	0mm	Ant 8	Standalone	46	5230	1	19.28	20.50	1.325	94.68	1.056	0.03	1.620	2.267	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Back	0mm	Ant 8	Standalone	38	5190	1	16.79	18.50	1.483	94.68	1.056	0.02	1.060	1.659	
120	WLAN5.2GHZ	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Standalone	46	5230	1	19.28	20.50	1.325	94.68	1.056	-0.05	1.970	2.757	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Standalone	38	5190	1	16.79	18.50	1.483	94.68	1.056	0.02	1.130	1.769	
	WLAN5.2GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8	Simultaneous	42	5210	1	11.35	13.00	1.462	90.28	1.108	0.09	0.291	0.471	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Front	0mm	Ant 8	Standalone	54	5270	1	18.12	20.00	1.540	94.68	1.056	0.05	0.487	0.792	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Back	0mm	Ant 8	Standalone	54	5270	1	18.12	20.00	1.540	94.68	1.056	-0.01	1.130	1.838	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Left Side	0mm	Ant 8	Full	54	5270	1	19.24	20.50	1.337	94.68	1.056	0.08	0.014	0.020	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Right Side	0mm	Ant 8	Standalone	54	5270	1	18.12	20.00	1.540	94.68	1.056	0.06	0.586	0.953	
121	WLAN5.3GHZ	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Standalone	54	5270	1	18.12	20.00	1.540	94.68	1.056	-0.07	1.910	3.107	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Standalone	62	5310		14.70	16.00	1.349	94.68	1.056	0.05	1.110	1.581	
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8	Simultaneous	58	5290	1	9.88	11.50	1.452	90.28	1.108	0.07	0.301	0.484	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Back	14mm	Ant 8	Full	54	5270	1	19.24	20.50	1.337	94.68	1.056	-0.09	0.394	0.556	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Top Side	7mm	Ant 8	Full	54	5270	1	19.24	20.50	1.337	94.68	1.056	0.01	0.529	0.747	
	WLAN5.5GHZ	802.11n-HT40 MCS0	Front	0mm	Ant 8	Standalone	134	5670	1	17.29	19.00	1.483	94.68	1.056	0.05	0.591	0.925	
	WLAN5.5GHZ	802.11n-HT40 MCS0	Back	0mm	Ant 8	Standalone	134	5670	1	17.29	19.00	1.483	94.68	1.056	-0.02	1.910	2.990	
	WLAN5.5GHZ	802.11n-HT40 MCS0	Back	0mm	Ant 8	Standalone	110	5550	1	17.23	19.00	1.503	94.68	1.056	0.01	1.830	2.905	
	WLAN5.5GHZ	802.11n-HT40 MCS0	Left Side	0mm	Ant 8	Full	110	5550	1	18.99	20.50	1.416	94.68	1.056	0.06	0.018	0.027	
	WLAN5.5GHZ	802.11n-HT40 MCS0	Right Side	0mm	Ant 8	Standalone	134	5670	1	17.29	19.00	1.483	94.68	1.056	-0.06	0.864	1.353	
122	WLAN5.5GHZ	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Standalone	134	5670	1	17.29	19.00	1.483	94.68	1.056	-0.05	1.990	3.115	
	WLAN5.5GHZ	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Standalone	110	5550	1	17.23	19.00	1.503	94.68	1.056	0.05	1.470	2.333	
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8	Simultaneous	106	5530	1	9.45	11.00	1.429	90.28	1.108	0.05	0.308	0.488	
	WLAN5.5GHZ	802.11n-HT40 MCS0	Back	14mm	Ant 8	Full	110	5550	1	18.99	20.50	1.416	94.68	1.056	0.03	0.379	0.567	
	WLAN5.5GHZ	802.11n-HT40 MCS0	Top Side	7mm	Ant 8	Full	110	5550	1	18.99	20.50	1.416	94.68	1.056	0.02	0.564	0.843	
	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Back	0mm	Ant 8	Standalone	155	5775	1	17.35	19.00	1.462	90.28	1.108	-0.03	1.270	2.058	
123	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8	Standalone	155	5775	1	17.35	19.00	1.462	90.28	1.108	-0.03	1.950	3.159	
	WLAN5.8GHZ	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Standalone	159	5795	1	17.49	19.00	1.416	94.68	1.056	0.04	1.890	2.826	



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WLAN5.8GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8	Standalone	155	5775	2	17.35	19.00	1.462	90.28	1.108	-0.03	1.870	3.030
WLAN5.8GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8	Simultaneous	155	5775	1	9.57	11.00	1.390	90.28	1.108	0.02	0.321	0.494
WLAN5.8GHZ	802.11n-HT40 MCS0	Back	14mm	Ant 8	Full	151	5755	1	19.18	20.50	1.356	94.68	1.056	0.06	0.310	0.444
WLAN5.8GHZ	802.11n-HT40 MCS0	Top Side	7mm	Ant 8	Full	151	5755	1	19.18	20.50	1.356	94.68	1.056	0.05	0.543	0.778

15.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	Reduced	56640	3690		19.19	20.50	1.352	62.9	1.006	-0.14	0.937	1	1.274
2nd	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	Reduced	56640	3690		19.19	20.50	1.352	62.9	1.006	-0.11	0.911	1.029	1.239
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 8	-	Standalone	6	2437		12.95	14.50	1.429	100	1.000	-0.11	0.890	1	1.272
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 8	-	Standalone	6	2437		12.95	14.50	1.429	100	1.000	0.08	0.852	1.045	1.217
1st	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 2	Reduced	633334	3500.01		17.65	18.50	1.216	-	-	0.15	0.923	1	1.123
2nd	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 2	Reduced	633334	3500.01		17.65	18.50	1.216	-	-	0.15	0.908	1.017	1.104
1st	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	23330	793		22.89	24.00	1.291	-	-	-0.05	1.080	1	1.395
2nd	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 4	Full Power	23330	793		22.89	24.00	1.291	-	-	0.18	1.060	1.019	1.369
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	Reduced	4233	846.6		22.27	23.00	1.183	-	-	-0.03	1.170	1	1.384
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	Reduced	4233	846.6		22.27	23.00	1.183	-	-	0.05	1.090	1.073	1.290
1st	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 7	Reduced	512	1850.2		22.54	23.50	1.247	-	-	-0.03	1.080	1	1.347
2nd	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 7	Reduced	512	1850.2		22.54	23.50	1.247	-	-	0.01	1.070	1.009	1.335
1st	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	27710	2310		15.91	17.00	1.285	-	-	0.01	0.997	1	1.281
2nd	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	Reduced	27710	2310		15.91	17.00	1.285	-	-	0.08	0.954	1.045	1.226
1st	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	21350	2560		21.71	23.00	1.346	-	-	0.03	1.020	1	1.373
2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	Reduced	21350	2560		21.71	23.00	1.346	-	-	0.03	0.989	1.031	1.331
1st	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3	Reduced	656000	3840		17.05	18.50	1.396	-	-	-0.07	0.977	1	1.364
2nd	FR1 n77 Part 27Q(HPUE)	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3	Reduced	656000	3840		17.05	18.50	1.396	-	-	-0.07	0.961	1.017	1.342
1st	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	Reduced	340500	1702.5		20.49	21.50	1.262	-	-	0.06	1.100	1	1.388
2nd	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	Reduced	340500	1702.5		20.49	21.50	1.262	-	-	0.06	1.020	1.078	1.287
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	Reduced	1413	1732.6	17.26	18.00	1.186	-	-	0.04	1.130	1	1.340	WCDMA IV
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	Reduced	1413	1732.6	17.26	18.00	1.186	-	-	0.08	1.120	1.009	1.328	WCDMA IV

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	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 V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 4	Full Power	4132	826.4		23.22	24.00	1.197	-	-	-0.08	2.400	1	2.872
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 4	Full Power	4132	826.4		23.22	24.00	1.197	-	-	0.19	2.330	1.030	2.788
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	Reduced	1312	1712.4		20.03	21.00	1.250	-	-	-0.04	2.760	1	3.451
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	Reduced	1312	1712.4		20.03	21.00	1.250	-	-	0.18	2.660	1.038	3.326
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	Reduced	9262	1852.4		19.67	21.00	1.358	-	-	-0.02	2.480	1	3.369
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	Reduced	9262	1852.4		19.67	21.00	1.358	-	-	-0.17	2.250	1.102	3.056
1st	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	27710	2310		21.44	22.50	1.276	-	-	-0.08	2.670	1	3.408
2nd	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	Reduced	27710	2310		21.44	22.50	1.276	-	-	0.01	2.510	1.064	3.204
1st	FR1 n41-HPUE	100M	QPSK	135	69	-	Back	0mm	Ant 0	DSI 6	Reduced	518598	2592.99		23.99	24.50	1.125	-	-	0.03	2.900	1	3.261
2nd	FR1 n41-HPUE	100M	QPSK	135	69	-	Back	0mm	Ant 0	DSI 6	Reduced	518598	2592.99		23.99	24.50	1.125	-	-	0.03	2.880	1.007	3.239
1st	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	7mm	Ant2	DSI 4	Full Power	633334	3500.01		26.49	27.00	1.125	-	-	0.13	3.060	1	3.441
2nd	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	7mm	Ant2	DSI 4	Full Power	633334	3500.01		26.49	27.00	1.125	-	-	0.13	2.998	1.021	3.372
1st	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	7mm	Ant2	DSI 4	Full Power	650000	3750		25.23	26.00	1.194	-	-	-0.12	2.891	1	3.452
2nd	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	7mm	Ant2	DSI 4	Full Power	650000	3750		25.23	26.00	1.194	-	-	-0.1	2.750	1.051	3.283
1st	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	0mm	Ant 2	DSI 4	0mm	Full Power	656000	3840		26.23	27.00	1.194	-	-	-0.05	2.666	1	3.183
2nd	FR1 n77 Part 27Q(HPUE)	100M	QPSK	135	69	DFT-SCS-30KHz	0mm	Ant 2	DSI 4	0mm	Full Power	656000	3840		26.23	27.00	1.194	-	-	-0.01	2.530	1.054	3.021

General Note:

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

Sporton International Inc. (Kunshan)

TEL : 86-512-57900158 / FAX : 86-512-57900958

FCC ID : IHDT56AA3

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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.

15.6 TDD B41 Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Ban 41. 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 1g SAR are < 1.4 W/kg and all reported 10g SAR are < 3.5 W/kg, Separate SAR testing for Power Class 2 is not required

LTE Band 41(HPUE)-Linearity Data for Head		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.196	0.243
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	0.268	
% deviation from expected linearity		-9.16%
LTE Band 41(HPUE)-Linearity Data for Hotspot		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.957	1.306
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	1.306	
% deviation from expected linearity		-0.01%



LTE Band 41(HPUE)-Linearity Data for Body-worn		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.974	1.306
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	1.329	
% deviation from expected linearity		-1.76%
LTE Band 41(HPUE)-Linearity Data for Extremity		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	2.419	3.494
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	3.302	
% deviation from expected linearity		5.83%



16. 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 + Bluetooth	Yes	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 5GNR 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. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment.
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).
7. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
8. WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
9. According to the EUT characteristic, WLAN 5GHz and Bluetooth can't transmit simultaneously.
10. 5G NR NSA EN-DC mode, standalone SAR performed for 5GNR band with the maximum power, EN-DC SAR summed 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
11. The maximum SAR summation is calculated based on the same configuration and test position.
12. 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) $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{separation distance, mm})$, 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 $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ 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.



16.1 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
GSM850 Ant 0	Right Cheek	0.555	0.161	0.214	0.050	0.72	0.77	0.61
	Right Tilted	0.227	0.161	0.214	0.044	0.39	0.44	0.27
	Left Cheek	0.412	0.161	0.214	0.120	0.57	0.63	0.53
	Left Tilted	0.214	0.161	0.214	0.114	0.38	0.43	0.33
GSM1900 Ant 0	Right Cheek	0.246	0.161	0.214	0.050	0.41	0.46	0.30
	Right Tilted	0.177	0.161	0.214	0.044	0.34	0.39	0.22
	Left Cheek	0.257	0.161	0.214	0.120	0.42	0.47	0.38
	Left Tilted	0.204	0.161	0.214	0.114	0.37	0.42	0.32
WCDMA II Ant 0	Right Cheek	0.449	0.161	0.214	0.050	0.61	0.66	0.50
	Right Tilted	0.377	0.161	0.214	0.044	0.54	0.59	0.42
	Left Cheek	0.488	0.161	0.214	0.120	0.65	0.70	0.61
	Left Tilted	0.390	0.161	0.214	0.114	0.55	0.60	0.50
WCDMA IV Ant 0	Right Cheek	0.169	0.161	0.214	0.050	0.33	0.38	0.22
	Right Tilted	0.093	0.161	0.214	0.044	0.25	0.31	0.14
	Left Cheek	0.126	0.161	0.214	0.120	0.29	0.34	0.25
	Left Tilted	0.080	0.161	0.214	0.114	0.24	0.29	0.19
WCDMA V Ant 0	Right Cheek	0.568	0.161	0.214	0.050	0.73	0.78	0.62
	Right Tilted	0.269	0.161	0.214	0.044	0.43	0.48	0.31
	Left Cheek	0.509	0.161	0.214	0.120	0.67	0.72	0.63
	Left Tilted	0.262	0.161	0.214	0.114	0.42	0.48	0.38
LTE Band 7 Ant 0	Right Cheek	0.267	0.161	0.214	0.050	0.43	0.48	0.32
	Right Tilted	0.273	0.161	0.214	0.044	0.43	0.49	0.32
	Left Cheek	0.535	0.161	0.214	0.120	0.70	0.75	0.66
	Left Tilted	0.258	0.161	0.214	0.114	0.42	0.47	0.37
LTE Band 12 Ant 0	Right Cheek	0.436	0.161	0.214	0.050	0.60	0.65	0.49
	Right Tilted	0.225	0.161	0.214	0.044	0.39	0.44	0.27
	Left Cheek	0.456	0.161	0.214	0.120	0.62	0.67	0.58
	Left Tilted	0.251	0.161	0.214	0.114	0.41	0.47	0.37
LTE Band 13 Ant 0	Right Cheek	0.515	0.161	0.214	0.050	0.68	0.73	0.57
	Right Tilted	0.324	0.161	0.214	0.044	0.49	0.54	0.37
	Left Cheek	0.462	0.161	0.214	0.120	0.62	0.68	0.58
	Left Tilted	0.287	0.161	0.214	0.114	0.45	0.50	0.40
LTE Band 13 Ant 1	Right Cheek	0.772	0.161	0.214	0.050	0.93	0.99	0.82
	Right Tilted	0.675	0.161	0.214	0.044	0.84	0.89	0.72
	Left Cheek	0.534	0.161	0.214	0.120	0.70	0.75	0.65
	Left Tilted	0.519	0.161	0.214	0.114	0.68	0.73	0.63
LTE Band 14 Ant 0	Right Cheek	0.480	0.161	0.214	0.050	0.64	0.69	0.53
	Right Tilted	0.281	0.161	0.214	0.044	0.44	0.50	0.33
	Left Cheek	0.445	0.161	0.214	0.120	0.61	0.66	0.57
	Left Tilted	0.284	0.161	0.214	0.114	0.45	0.50	0.40
LTE Band 25 Ant 0	Right Cheek	0.448	0.161	0.214	0.050	0.61	0.66	0.50
	Right Tilted	0.371	0.161	0.214	0.044	0.53	0.59	0.42
	Left Cheek	0.451	0.161	0.214	0.120	0.61	0.67	0.57
	Left Tilted	0.375	0.161	0.214	0.114	0.54	0.59	0.49
LTE Band 25 Ant 1	Right Cheek	1.107	0.161	0.214	0.050	1.27	1.32	1.16
	Right Tilted	1.231	0.161	0.214	0.044	1.39	1.45	1.28
	Left Cheek	0.608	0.161	0.214	0.120	0.77	0.82	0.73
	Left Tilted	0.753	0.161	0.214	0.114	0.91	0.97	0.87
LTE Band 26 Ant 0	Right Cheek	0.456	0.161	0.214	0.050	0.62	0.67	0.51
	Right Tilted	0.232	0.161	0.214	0.044	0.39	0.45	0.28
	Left Cheek	0.405	0.161	0.214	0.120	0.57	0.62	0.53



LTE Band 26 Ant 1	Left Tilted	0.229	0.161	0.214	0.114	0.39	0.44	0.34
	Right Cheek	1.127	0.161	0.214	0.050	1.29	1.34	1.18
	Right Tilted	0.932	0.161	0.214	0.044	1.09	1.15	0.98
	Left Cheek	0.794	0.161	0.214	0.120	0.96	1.01	0.91
	Left Tilted	0.755	0.161	0.214	0.114	0.92	0.97	0.87
LTE Band 30 Ant 0	Right Cheek	0.177	0.161	0.214	0.050	0.34	0.39	0.23
	Right Tilted	0.198	0.161	0.214	0.044	0.36	0.41	0.24
	Left Cheek	0.229	0.161	0.214	0.120	0.39	0.44	0.35
	Left Tilted	0.163	0.161	0.214	0.114	0.32	0.38	0.28
LTE Band 41 Ant 0	Right Cheek	0.116	0.161	0.214	0.050	0.277	0.330	0.17
	Right Tilted	0.122	0.161	0.214	0.050	0.283	0.336	0.17
	Left Cheek	0.196	0.161	0.214	0.050	0.357	0.410	0.25
	Left Tilted	0.122	0.161	0.214	0.050	0.283	0.336	0.17
LTE Band 66 Ant 0	Right Cheek	0.382	0.161	0.214	0.050	0.543	0.596	0.43
	Right Tilted	0.265	0.161	0.214	0.050	0.426	0.479	0.32
	Left Cheek	0.312	0.161	0.214	0.050	0.473	0.526	0.36
	Left Tilted	0.215	0.161	0.214	0.050	0.376	0.429	0.27
LTE Band 66 Ant 1	Right Cheek	1.121	0.161	0.214	0.050	1.282	1.335	1.17
	Right Tilted	1.219	0.161	0.214	0.050	1.380	1.433	1.27
	Left Cheek	0.737	0.161	0.214	0.050	0.898	0.951	0.79
	Left Tilted	0.877	0.161	0.214	0.050	1.038	1.091	0.93
LTE Band 71 Ant 0	Right Cheek	0.293	0.161	0.214	0.050	0.454	0.507	0.34
	Right Tilted	0.141	0.161	0.214	0.050	0.302	0.355	0.19
	Left Cheek	0.291	0.161	0.214	0.050	0.452	0.505	0.34
	Left Tilted	0.128	0.161	0.214	0.050	0.289	0.342	0.18
LTE Band 48 Ant 2	Right Cheek	1.020	0.161	0.214	0.050	1.181	1.234	1.07
	Right Tilted	1.154	0.161	0.214	0.050	1.315	1.368	1.20
	Left Cheek	1.093	0.161	0.214	0.050	1.254	1.307	1.14
	Left Tilted	1.286	0.161	0.214	0.050	1.447	1.500	1.34

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
FR1 n12 Ant 0	Right Cheek	0.223	0.161	0.214	0.050	0.38	0.44	0.27
	Right Tilted	0.114	0.161	0.214	0.044	0.28	0.33	0.16
	Left Cheek	0.221	0.161	0.214	0.120	0.38	0.44	0.34
	Left Tilted	0.113	0.161	0.214	0.114	0.27	0.33	0.23
FR1 n14 Ant 0	Right Cheek	0.308	0.161	0.214	0.050	0.47	0.52	0.36
	Right Tilted	0.191	0.161	0.214	0.044	0.35	0.41	0.24
	Left Cheek	0.297	0.161	0.214	0.120	0.46	0.51	0.42
	Left Tilted	0.180	0.161	0.214	0.114	0.34	0.39	0.29
FR1 n25 Ant 0	Right Cheek	0.172	0.161	0.214	0.050	0.33	0.39	0.22
	Right Tilted	0.134	0.161	0.214	0.044	0.30	0.35	0.18
	Left Cheek	0.187	0.161	0.214	0.120	0.35	0.40	0.31
	Left Tilted	0.148	0.161	0.214	0.114	0.31	0.36	0.26
FR1 n26 Ant 0	Right Cheek	0.269	0.161	0.214	0.050	0.43	0.48	0.32
	Right Tilted	0.164	0.161	0.214	0.044	0.33	0.38	0.21
	Left Cheek	0.256	0.161	0.214	0.120	0.42	0.47	0.38
	Left Tilted	0.148	0.161	0.214	0.114	0.31	0.36	0.26
FR1 n41-HPUE Ant 0	Right Cheek	0.191	0.161	0.214	0.050	0.35	0.41	0.24
	Right Tilted	0.190	0.161	0.214	0.044	0.35	0.40	0.23
	Left Cheek	0.417	0.161	0.214	0.120	0.58	0.63	0.54
	Left Tilted	0.201	0.161	0.214	0.114	0.36	0.42	0.32
FR1 n66 Ant 0	Right Cheek	0.208	0.161	0.214	0.050	0.37	0.42	0.26
	Right Tilted	0.108	0.161	0.214	0.044	0.27	0.32	0.15



	Left Cheek	0.165	0.161	0.214	0.120	0.33	0.38	0.29
	Left Tilted	0.106	0.161	0.214	0.114	0.27	0.32	0.22
FR1 n70 Ant 0	Right Cheek	0.199	0.161	0.214	0.050	0.36	0.41	0.25
	Right Tilted	0.055	0.161	0.214	0.044	0.22	0.27	0.10
	Left Cheek	0.154	0.161	0.214	0.120	0.32	0.37	0.27
	Left Tilted	0.076	0.161	0.214	0.114	0.24	0.29	0.19
FR1 n71 Ant 0	Right Cheek	0.203	0.161	0.214	0.050	0.36	0.42	0.25
	Right Tilted	0.096	0.161	0.214	0.044	0.26	0.31	0.14
	Left Cheek	0.204	0.161	0.214	0.120	0.37	0.42	0.32
	Left Tilted	0.100	0.161	0.214	0.114	0.26	0.31	0.21
FR1 n77 Part 27O(HPUE) Ant 2	Right Cheek	0.729	0.161	0.214	0.050	0.89	0.94	0.78
	Right Tilted	0.905	0.161	0.214	0.044	1.07	1.12	0.95
	Left Cheek	1.003	0.161	0.214	0.120	1.16	1.22	1.12
	Left Tilted	1.014	0.161	0.214	0.114	1.18	1.23	1.13
FR1 n77 Part 27Q(HPUE) Ant 2	Right Cheek	0.963	0.161	0.214	0.050	1.12	1.18	1.01
	Right Tilted	1.025	0.161	0.214	0.044	1.19	1.24	1.07
	Left Cheek	0.905	0.161	0.214	0.120	1.07	1.12	1.03
	Left Tilted	1.123	0.161	0.214	0.114	1.28	1.34	1.24

<EN-DC Mode>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 25 Ant 0	FR1 n25 Ant1	Right Cheek	0.448	0.533	0.161	0.214	0.050	1.14	1.20	1.03
		Right Tilted	0.371	0.595	0.161	0.214	0.044	1.13	1.18	1.01
		Left Cheek	0.451	0.311	0.161	0.214	0.120	0.92	0.98	0.88
		Left Tilted	0.375	0.397	0.161	0.214	0.114	0.93	0.99	0.89
LTE Band 25 Ant 0	FR1 n5 Ant1	Right Cheek	0.448	0.534	0.161	0.214	0.050	1.14	1.20	1.03
		Right Tilted	0.371	0.455	0.161	0.214	0.044	0.99	1.04	0.87
		Left Cheek	0.451	0.379	0.161	0.214	0.120	0.99	1.04	0.95
		Left Tilted	0.375	0.360	0.161	0.214	0.114	0.90	0.95	0.85
LTE Band 25 Ant 0	FR1 n12 Ant1	Right Cheek	0.448	0.539	0.161	0.214	0.050	1.15	1.20	1.04
		Right Tilted	0.371	0.463	0.161	0.214	0.044	1.00	1.05	0.88
		Left Cheek	0.451	0.329	0.161	0.214	0.120	0.94	0.99	0.90
		Left Tilted	0.375	0.312	0.161	0.214	0.114	0.85	0.90	0.80
LTE Band 25 Ant 0	FR1 n30 Ant1	Right Cheek	0.448	0.464	0.161	0.214	0.050	1.07	1.13	0.96
		Right Tilted	0.371	0.568	0.161	0.214	0.044	1.10	1.15	0.98
		Left Cheek	0.451	0.178	0.161	0.214	0.120	0.79	0.84	0.75
		Left Tilted	0.375	0.238	0.161	0.214	0.114	0.77	0.83	0.73
LTE Band 25 Ant 0	FR1 n41-HPUE Ant1	Right Cheek	0.448	0.464	0.161	0.214	0.050	1.07	1.13	0.96
		Right Tilted	0.371	0.554	0.161	0.214	0.044	1.09	1.14	0.97
		Left Cheek	0.451	0.167	0.161	0.214	0.120	0.78	0.83	0.74
		Left Tilted	0.375	0.211	0.161	0.214	0.114	0.75	0.80	0.70
LTE Band 25 Ant 0	FR1 n66 Ant1	Right Cheek	0.448	0.494	0.161	0.214	0.050	1.10	1.16	0.99
		Right Tilted	0.371	0.542	0.161	0.214	0.044	1.07	1.13	0.96
		Left Cheek	0.451	0.318	0.161	0.214	0.120	0.93	0.98	0.89
		Left Tilted	0.375	0.386	0.161	0.214	0.114	0.92	0.98	0.88
LTE Band 25 Ant 0	FR1 n71 Ant1	Right Cheek	0.448	0.416	0.161	0.214	0.050	1.03	1.08	0.91
		Right Tilted	0.371	0.373	0.161	0.214	0.044	0.91	0.96	0.79
		Left Cheek	0.451	0.267	0.161	0.214	0.120	0.88	0.93	0.84
		Left Tilted	0.375	0.251	0.161	0.214	0.114	0.79	0.84	0.74
LTE Band 25 Ant 0	FR1 n77 Part 27O(HPUE) Ant2	Right Cheek	0.448	0.300	0.161	0.214	0.050	0.91	0.96	0.80
		Right Tilted	0.371	0.372	0.161	0.214	0.044	0.90	0.96	0.79
		Left Cheek	0.451	0.390	0.161	0.214	0.120	1.00	1.06	0.96



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LTE Band 25 Ant 0	FR1 n77 Part 27Q(HPUE) Ant2	Left Tilted	0.375	0.464	0.161	0.214	0.114	1.00	1.05	0.95
		Right Cheek	0.448	0.387	0.161	0.214	0.050	1.00	1.05	0.89
		Right Tilted	0.371	0.458	0.161	0.214	0.044	0.99	1.04	0.87
		Left Cheek	0.451	0.404	0.161	0.214	0.120	1.02	1.07	0.98
LTE Band 26 Ant1	FR1 n25 Ant 0	Left Tilted	0.375	0.501	0.161	0.214	0.114	1.04	1.09	0.99
		Right Cheek	0.538	0.172	0.161	0.214	0.050	0.87	0.92	0.76
		Right Tilted	0.445	0.134	0.161	0.214	0.044	0.74	0.79	0.62
		Left Cheek	0.382	0.187	0.161	0.214	0.120	0.73	0.78	0.69
LTE Band 26 Ant1	FR1 n30 Ant0	Left Tilted	0.361	0.148	0.161	0.214	0.114	0.67	0.72	0.62
		Right Cheek	0.538	0.214	0.161	0.214	0.050	0.91	0.97	0.80
		Right Tilted	0.445	0.210	0.161	0.214	0.044	0.82	0.87	0.70
		Left Cheek	0.382	0.279	0.161	0.214	0.120	0.82	0.88	0.78
LTE Band 26 Ant1	FR1 n66 Ant 0	Left Tilted	0.361	0.203	0.161	0.214	0.114	0.73	0.78	0.68
		Right Cheek	0.538	0.208	0.161	0.214	0.050	0.91	0.96	0.80
		Right Tilted	0.445	0.108	0.161	0.214	0.044	0.71	0.77	0.60
		Left Cheek	0.382	0.165	0.161	0.214	0.120	0.71	0.76	0.67
LTE Band 26 Ant 0	FR1 n77 Part 27Q(HPUE) Ant2	Left Tilted	0.361	0.106	0.161	0.214	0.114	0.63	0.68	0.58
		Right Cheek	0.456	0.300	0.161	0.214	0.050	0.92	0.97	0.81
		Right Tilted	0.232	0.372	0.161	0.214	0.044	0.77	0.82	0.65
		Left Cheek	0.405	0.390	0.161	0.214	0.120	0.96	1.01	0.92
LTE Band 26 Ant 0	FR1 n77 Part 27Q(HPUE) Ant2	Left Tilted	0.229	0.464	0.161	0.214	0.114	0.85	0.91	0.81
		Right Cheek	0.456	0.387	0.161	0.214	0.050	1.00	1.06	0.89
		Right Tilted	0.232	0.458	0.161	0.214	0.044	0.85	0.90	0.73
		Left Cheek	0.405	0.404	0.161	0.214	0.120	0.97	1.02	0.93
LTE Band 7 Ant 0	FR1 n25 Ant1	Left Tilted	0.229	0.501	0.161	0.214	0.114	0.89	0.94	0.84
		Right Cheek	0.267	0.533	0.161	0.214	0.050	0.96	1.01	0.85
		Right Tilted	0.273	0.595	0.161	0.214	0.044	1.03	1.08	0.91
		Left Cheek	0.535	0.311	0.161	0.214	0.120	1.01	1.06	0.97
LTE Band 7 Ant 0	FR1 n5 Ant1	Left Tilted	0.258	0.397	0.161	0.214	0.114	0.82	0.87	0.77
		Right Cheek	0.267	0.534	0.161	0.214	0.050	0.96	1.02	0.85
		Right Tilted	0.273	0.455	0.161	0.214	0.044	0.89	0.94	0.77
		Left Cheek	0.535	0.379	0.161	0.214	0.120	1.08	1.13	1.03
LTE Band 7 Ant 0	FR1 n66 Ant1	Left Tilted	0.258	0.360	0.161	0.214	0.114	0.78	0.83	0.73
		Right Cheek	0.267	0.494	0.161	0.214	0.050	0.92	0.98	0.81
		Right Tilted	0.273	0.542	0.161	0.214	0.044	0.98	1.03	0.86
		Left Cheek	0.535	0.318	0.161	0.214	0.120	1.01	1.07	0.97
LTE Band 7 Ant 0	FR1 n71 Ant1	Left Tilted	0.258	0.386	0.161	0.214	0.114	0.81	0.86	0.76
		Right Cheek	0.267	0.416	0.161	0.214	0.050	0.84	0.90	0.73
		Right Tilted	0.273	0.373	0.161	0.214	0.044	0.81	0.86	0.69
		Left Cheek	0.535	0.267	0.161	0.214	0.120	0.96	1.02	0.92
LTE Band 7 Ant 0	FR1 n77 Part 27Q(HPUE) Ant2	Left Tilted	0.258	0.251	0.161	0.214	0.114	0.67	0.72	0.62
		Right Cheek	0.267	0.300	0.161	0.214	0.050	0.73	0.78	0.62
		Right Tilted	0.273	0.372	0.161	0.214	0.044	0.81	0.86	0.69
		Left Cheek	0.535	0.390	0.161	0.214	0.120	1.09	1.14	1.05
LTE Band 7 Ant 0	FR1 n77 Part 27Q(HPUE) Ant2	Left Tilted	0.258	0.464	0.161	0.214	0.114	0.88	0.94	0.84
		Right Cheek	0.267	0.387	0.161	0.214	0.050	0.82	0.87	0.70
		Right Tilted	0.273	0.458	0.161	0.214	0.044	0.89	0.95	0.78
		Left Cheek	0.535	0.404	0.161	0.214	0.120	1.10	1.15	1.06
LTE Band 12 Ant1	FR1 n25 Ant 0	Left Tilted	0.258	0.501	0.161	0.214	0.114	0.92	0.97	0.87
		Right Cheek	0.584	0.172	0.161	0.214	0.050	0.92	0.97	0.81
		Right Tilted	0.506	0.134	0.161	0.214	0.044	0.80	0.85	0.68
		Left Cheek	0.395	0.187	0.161	0.214	0.120	0.74	0.80	0.70
LTE Band 12 Ant1	FR1 n30 Ant0	Left Tilted	0.353	0.148	0.161	0.214	0.114	0.66	0.72	0.62
		Right Cheek	0.584	0.214	0.161	0.214	0.050	0.96	1.01	0.85
		Right Tilted	0.506	0.210	0.161	0.214	0.044	0.88	0.93	0.76
		Left Cheek	0.395	0.279	0.161	0.214	0.120	0.84	0.89	0.79



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LTE Band 12 Ant1	FR1 n41-HPUE Ant1	Left Tilted	0.353	0.203	0.161	0.214	0.114	0.72	0.77	0.67
		Right Cheek	0.584	0.464	0.161	0.214	0.050	1.21	1.26	1.10
		Right Tilted	0.506	0.554	0.161	0.214	0.044	1.22	1.27	1.10
		Left Cheek	0.395	0.167	0.161	0.214	0.120	0.72	0.78	0.68
		Left Tilted	0.353	0.211	0.161	0.214	0.114	0.73	0.78	0.68
LTE Band 12 Ant1	FR1 n66 Ant 0	Right Cheek	0.584	0.208	0.161	0.214	0.050	0.95	1.01	0.84
		Right Tilted	0.506	0.108	0.161	0.214	0.044	0.78	0.83	0.66
		Left Cheek	0.395	0.165	0.161	0.214	0.120	0.72	0.77	0.68
		Left Tilted	0.353	0.106	0.161	0.214	0.114	0.62	0.67	0.57
LTE Band 12 Ant 0	FR1 n77 Part 270(HPUE) Ant2	Right Cheek	0.436	0.300	0.161	0.214	0.050	0.90	0.95	0.79
		Right Tilted	0.225	0.372	0.161	0.214	0.044	0.76	0.81	0.64
		Left Cheek	0.456	0.390	0.161	0.214	0.120	1.01	1.06	0.97
		Left Tilted	0.251	0.464	0.161	0.214	0.114	0.88	0.93	0.83
LTE Band 12 Ant 0	FR1 n77 Part 270(HPUE) Ant2	Right Cheek	0.436	0.387	0.161	0.214	0.050	0.98	1.04	0.87
		Right Tilted	0.225	0.458	0.161	0.214	0.044	0.84	0.90	0.73
		Left Cheek	0.456	0.404	0.161	0.214	0.120	1.02	1.07	0.98
		Left Tilted	0.251	0.501	0.161	0.214	0.114	0.91	0.97	0.87
LTE Band 13 Ant1	FR1 n25 Ant 0	Right Cheek	0.539	0.172	0.161	0.214	0.050	0.87	0.93	0.76
		Right Tilted	0.471	0.134	0.161	0.214	0.044	0.77	0.82	0.65
		Left Cheek	0.373	0.187	0.161	0.214	0.120	0.72	0.77	0.68
		Left Tilted	0.362	0.148	0.161	0.214	0.114	0.67	0.72	0.62
LTE Band 13 Ant1	FR1 n66 Ant 0	Right Cheek	0.539	0.208	0.161	0.214	0.050	0.91	0.96	0.80
		Right Tilted	0.471	0.108	0.161	0.214	0.044	0.74	0.79	0.62
		Left Cheek	0.373	0.165	0.161	0.214	0.120	0.70	0.75	0.66
		Left Tilted	0.362	0.106	0.161	0.214	0.114	0.63	0.68	0.58
LTE Band 13 Ant 0	FR1 n77 Part 270(HPUE) Ant2	Right Cheek	0.515	0.300	0.161	0.214	0.050	0.98	1.03	0.87
		Right Tilted	0.324	0.372	0.161	0.214	0.044	0.86	0.91	0.74
		Left Cheek	0.462	0.390	0.161	0.214	0.120	1.01	1.07	0.97
		Left Tilted	0.287	0.464	0.161	0.214	0.114	0.91	0.97	0.87
LTE Band 13 Ant 0	FR1 n77 Part 270(HPUE) Ant2	Right Cheek	0.515	0.387	0.161	0.214	0.050	1.06	1.12	0.95
		Right Tilted	0.324	0.458	0.161	0.214	0.044	0.94	1.00	0.83
		Left Cheek	0.462	0.404	0.161	0.214	0.120	1.03	1.08	0.99
		Left Tilted	0.287	0.501	0.161	0.214	0.114	0.95	1.00	0.90

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 14 Ant1	FR1 n25 Ant 0	Right Cheek	0.584	0.172	0.161	0.214	0.050	0.92	0.97	0.81
		Right Tilted	0.514	0.134	0.161	0.214	0.044	0.81	0.86	0.69
		Left Cheek	0.427	0.187	0.161	0.214	0.120	0.78	0.83	0.73
		Left Tilted	0.390	0.148	0.161	0.214	0.114	0.70	0.75	0.65
LTE Band 14 Ant1	FR1 n30 Ant0	Right Cheek	0.584	0.214	0.161	0.214	0.050	0.96	1.01	0.85
		Right Tilted	0.514	0.210	0.161	0.214	0.044	0.89	0.94	0.77
		Left Cheek	0.427	0.279	0.161	0.214	0.120	0.87	0.92	0.83
		Left Tilted	0.390	0.203	0.161	0.214	0.114	0.75	0.81	0.71
LTE Band 14 Ant1	FR1 n66 Ant 0	Right Cheek	0.584	0.208	0.161	0.214	0.050	0.95	1.01	0.84
		Right Tilted	0.514	0.108	0.161	0.214	0.044	0.78	0.84	0.67
		Left Cheek	0.427	0.165	0.161	0.214	0.120	0.75	0.81	0.71
		Left Tilted	0.390	0.106	0.161	0.214	0.114	0.66	0.71	0.61
LTE Band 14 Ant 0	FR1 n77 Part 270(HPUE) Ant2	Right Cheek	0.480	0.300	0.161	0.214	0.050	0.94	0.99	0.83
		Right Tilted	0.281	0.372	0.161	0.214	0.044	0.81	0.87	0.70
		Left Cheek	0.445	0.390	0.161	0.214	0.120	1.00	1.05	0.96
		Left Tilted	0.284	0.464	0.161	0.214	0.114	0.91	0.96	0.86
LTE	FR1 n77	Right Cheek	0.480	0.387	0.161	0.214	0.050	1.03	1.08	0.92



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Band 14 Ant 0	Part 27Q(HPUE) Ant2	Right Tilted	0.281	0.458	0.161	0.214	0.044	0.90	0.95	0.78
		Left Cheek	0.445	0.404	0.161	0.214	0.120	1.01	1.06	0.97
		Left Tilted	0.284	0.501	0.161	0.214	0.114	0.95	1.00	0.90
LTE Band 25 Ant 0	FR1 n41-HPUE Ant1	Right Cheek	0.448	0.464	0.161	0.214	0.050	1.07	1.13	0.96
		Right Tilted	0.371	0.554	0.161	0.214	0.044	1.09	1.14	0.97
		Left Cheek	0.451	0.167	0.161	0.214	0.120	0.78	0.83	0.74
LTE Band 25 Ant 0	FR1 n66 Ant1	Left Tilted	0.375	0.211	0.161	0.214	0.114	0.75	0.80	0.70
		Right Cheek	0.448	0.494	0.161	0.214	0.050	1.10	1.16	0.99
		Right Tilted	0.371	0.542	0.161	0.214	0.044	1.07	1.13	0.96
LTE Band 25 Ant 0	FR1 n66 Ant1	Left Cheek	0.451	0.318	0.161	0.214	0.120	0.93	0.98	0.89
		Left Tilted	0.375	0.386	0.161	0.214	0.114	0.92	0.98	0.88
		Right Cheek	0.538	0.191	0.161	0.214	0.050	0.89	0.94	0.78
LTE Band 26 Ant1	FR1 n41-HPUE Ant 0	Right Tilted	0.445	0.190	0.161	0.214	0.044	0.80	0.85	0.68
		Left Cheek	0.382	0.417	0.161	0.214	0.120	0.96	1.01	0.92
		Left Tilted	0.361	0.201	0.161	0.214	0.114	0.72	0.78	0.68
LTE Band 30 Ant 0	FR1 n25 Ant1	Right Cheek	0.177	0.533	0.161	0.214	0.050	0.87	0.92	0.76
		Right Tilted	0.198	0.595	0.161	0.214	0.044	0.95	1.01	0.84
		Left Cheek	0.229	0.311	0.161	0.214	0.120	0.70	0.75	0.66
LTE Band 30 Ant 0	FR1 n5 Ant1	Left Tilted	0.163	0.397	0.161	0.214	0.114	0.72	0.77	0.67
		Right Cheek	0.177	0.534	0.161	0.214	0.050	0.87	0.93	0.76
		Right Tilted	0.198	0.455	0.161	0.214	0.044	0.81	0.87	0.70
LTE Band 30 Ant 0	FR1 n5 Ant1	Left Cheek	0.229	0.379	0.161	0.214	0.120	0.77	0.82	0.73
		Left Tilted	0.163	0.360	0.161	0.214	0.114	0.68	0.74	0.64
		Right Cheek	0.177	0.494	0.161	0.214	0.050	0.83	0.89	0.72
LTE Band 30 Ant 0	FR1 n66 Ant1	Right Tilted	0.198	0.542	0.161	0.214	0.044	0.90	0.95	0.78
		Left Cheek	0.229	0.318	0.161	0.214	0.120	0.71	0.76	0.67
		Left Tilted	0.163	0.386	0.161	0.214	0.114	0.71	0.76	0.66
LTE Band 30 Ant 0	FR1 n77 Part 27O(HPUE) Ant2	Right Cheek	0.177	0.300	0.161	0.214	0.050	0.64	0.69	0.53
		Right Tilted	0.198	0.372	0.161	0.214	0.044	0.73	0.78	0.61
		Left Cheek	0.229	0.390	0.161	0.214	0.120	0.78	0.83	0.74
LTE Band 30 Ant 0	FR1 n77 Part 27O(HPUE) Ant2	Left Tilted	0.163	0.464	0.161	0.214	0.114	0.79	0.84	0.74
		Right Cheek	0.304	0.172	0.161	0.214	0.050	0.64	0.69	0.53
		Right Tilted	0.362	0.134	0.161	0.214	0.044	0.66	0.71	0.54
LTE Band 48 Ant2	FR1 n25 Ant 0	Left Cheek	0.372	0.187	0.161	0.214	0.120	0.72	0.77	0.68
		Left Tilted	0.558	0.148	0.161	0.214	0.114	0.87	0.92	0.82
		Right Cheek	0.382	0.533	0.161	0.214	0.050	1.08	1.13	0.97
LTE Band 66 Ant 0	FR1 n25 Ant1	Right Tilted	0.265	0.595	0.161	0.214	0.044	1.02	1.07	0.90
		Left Cheek	0.312	0.311	0.161	0.214	0.120	0.78	0.84	0.74
		Left Tilted	0.215	0.397	0.161	0.214	0.114	0.77	0.83	0.73
LTE Band 66 Ant 0	FR1 n5 Ant1	Right Cheek	0.382	0.534	0.161	0.214	0.050	1.08	1.13	0.97
		Right Tilted	0.265	0.455	0.161	0.214	0.044	0.88	0.93	0.76
		Left Cheek	0.312	0.379	0.161	0.214	0.120	0.85	0.91	0.81
LTE Band 66 Ant 0	FR1 n5 Ant1	Left Tilted	0.215	0.360	0.161	0.214	0.114	0.74	0.79	0.69
		Right Cheek	0.382	0.539	0.161	0.214	0.050	1.08	1.14	0.97
		Right Tilted	0.265	0.463	0.161	0.214	0.044	0.89	0.94	0.77
LTE Band 66 Ant 0	FR1 n12 Ant1	Left Cheek	0.312	0.329	0.161	0.214	0.120	0.80	0.86	0.76
		Left Tilted	0.215	0.312	0.161	0.214	0.114	0.69	0.74	0.64
		Right Cheek	0.382	0.533	0.161	0.214	0.050	1.08	1.13	0.97
LTE Band 66 Ant 0	FR1 n25 Ant1	Right Tilted	0.265	0.595	0.161	0.214	0.044	1.02	1.07	0.90
		Left Cheek	0.312	0.311	0.161	0.214	0.120	0.78	0.84	0.74
		Left Tilted	0.215	0.397	0.161	0.214	0.114	0.77	0.83	0.73
LTE Band 66 Ant 0	FR1 n30 Ant1	Right Cheek	0.382	0.464	0.161	0.214	0.050	1.01	1.06	0.90
		Right Tilted	0.265	0.568	0.161	0.214	0.044	0.99	1.05	0.88
		Left Cheek	0.312	0.178	0.161	0.214	0.120	0.65	0.70	0.61
LTE Band 66 Ant 0	FR1 n30 Ant1	Left Tilted	0.215	0.238	0.161	0.214	0.114	0.61	0.67	0.57
		Right Cheek	0.382	0.464	0.161	0.214	0.050	1.01	1.06	0.90
		Right Tilted	0.265	0.568	0.161	0.214	0.044	0.99	1.05	0.88
LTE	FR1	Right Cheek	0.382	0.464	0.161	0.214	0.050	1.01	1.06	0.90



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Band 66 Ant 0	n41-HPUE Ant1	Right Tilted	0.265	0.554	0.161	0.214	0.044	0.98	1.03	0.86
		Left Cheek	0.312	0.167	0.161	0.214	0.120	0.64	0.69	0.60
		Left Tilted	0.215	0.211	0.161	0.214	0.114	0.59	0.64	0.54

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 66 Ant 0	FR1 n71 Ant1	Right Cheek	0.382	0.416	0.161	0.214	0.050	0.96	1.01	0.85
		Right Tilted	0.265	0.373	0.161	0.214	0.044	0.80	0.85	0.68
		Left Cheek	0.312	0.267	0.161	0.214	0.120	0.74	0.79	0.70
		Left Tilted	0.215	0.251	0.161	0.214	0.114	0.63	0.68	0.58
LTE Band 66 Ant 0	FR1 n77 Part 27O(HPUE) Ant2	Right Cheek	0.382	0.300	0.161	0.214	0.050	0.84	0.90	0.73
		Right Tilted	0.265	0.372	0.161	0.214	0.044	0.80	0.85	0.68
		Left Cheek	0.312	0.390	0.161	0.214	0.120	0.86	0.92	0.82
		Left Tilted	0.215	0.464	0.161	0.214	0.114	0.84	0.89	0.79
LTE Band 66 Ant 0	FR1 n77 Part 27Q(HPUE) Ant2	Right Cheek	0.382	0.387	0.161	0.214	0.050	0.93	0.98	0.82
		Right Tilted	0.265	0.458	0.161	0.214	0.044	0.88	0.94	0.77
		Left Cheek	0.312	0.404	0.161	0.214	0.120	0.88	0.93	0.84
		Left Tilted	0.215	0.501	0.161	0.214	0.114	0.88	0.93	0.83
LTE Band 71 Ant1	FR1 n25 Ant 0	Right Cheek	0.480	0.172	0.161	0.214	0.050	0.81	0.87	0.70
		Right Tilted	0.422	0.134	0.161	0.214	0.044	0.72	0.77	0.60
		Left Cheek	0.311	0.187	0.161	0.214	0.120	0.66	0.71	0.62
		Left Tilted	0.287	0.148	0.161	0.214	0.114	0.60	0.65	0.55
LTE Band 71 Ant1	FR1 n41-HPUE Ant 0	Right Cheek	0.480	0.191	0.161	0.214	0.050	0.83	0.89	0.72
		Right Tilted	0.422	0.190	0.161	0.214	0.044	0.77	0.83	0.66
		Left Cheek	0.311	0.417	0.161	0.214	0.120	0.89	0.94	0.85
		Left Tilted	0.287	0.201	0.161	0.214	0.114	0.65	0.70	0.60
LTE Band 71 Ant1	FR1 n66 Ant 0	Right Cheek	0.480	0.208	0.161	0.214	0.050	0.85	0.90	0.74
		Right Tilted	0.422	0.108	0.161	0.214	0.044	0.69	0.74	0.57
		Left Cheek	0.311	0.165	0.161	0.214	0.120	0.64	0.69	0.60
		Left Tilted	0.287	0.106	0.161	0.214	0.114	0.55	0.61	0.51



<Inter UL CA Mode>

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 25 Ant 0	LTE Band 66 Ant1	Right Cheek	0.448	0.572	0.161	0.214	0.050	1.18	1.23	1.07
		Right Tilted	0.371	0.636	0.161	0.214	0.044	1.17	1.22	1.05
		Left Cheek	0.451	0.389	0.161	0.214	0.120	1.00	1.05	0.96
		Left Tilted	0.375	0.463	0.161	0.214	0.114	1.00	1.05	0.95
LTE Band 25 Ant 0	LTE Band 26 Ant1	Right Cheek	0.448	0.538	0.161	0.214	0.050	1.15	1.20	1.04
		Right Tilted	0.371	0.445	0.161	0.214	0.044	0.98	1.03	0.86
		Left Cheek	0.451	0.382	0.161	0.214	0.120	0.99	1.05	0.95
		Left Tilted	0.375	0.361	0.161	0.214	0.114	0.90	0.95	0.85
LTE Band 25 Ant 0	LTE Band 12 Ant1	Right Cheek	0.448	0.584	0.161	0.214	0.050	1.19	1.25	1.08
		Right Tilted	0.371	0.506	0.161	0.214	0.044	1.04	1.09	0.92
		Left Cheek	0.451	0.395	0.161	0.214	0.120	1.01	1.06	0.97
		Left Tilted	0.375	0.353	0.161	0.214	0.114	0.89	0.94	0.84
LTE Band 25 Ant 0	LTE Band 13 Ant1	Right Cheek	0.448	0.539	0.161	0.214	0.050	1.15	1.20	1.04
		Right Tilted	0.371	0.471	0.161	0.214	0.044	1.00	1.06	0.89
		Left Cheek	0.451	0.373	0.161	0.214	0.120	0.99	1.04	0.94
		Left Tilted	0.375	0.362	0.161	0.214	0.114	0.90	0.95	0.85
LTE Band 25 Ant 0	LTE Band 14 Ant1	Right Cheek	0.448	0.584	0.161	0.214	0.050	1.19	1.25	1.08
		Right Tilted	0.371	0.514	0.161	0.214	0.044	1.05	1.10	0.93
		Left Cheek	0.451	0.427	0.161	0.214	0.120	1.04	1.09	1.00
		Left Tilted	0.375	0.390	0.161	0.214	0.114	0.93	0.98	0.88
LTE Band 25 Ant 0	LTE Band 48 Ant2	Right Cheek	0.448	0.304	0.161	0.214	0.050	0.91	0.97	0.80
		Right Tilted	0.371	0.362	0.161	0.214	0.044	0.89	0.95	0.78
		Left Cheek	0.451	0.372	0.161	0.214	0.120	0.98	1.04	0.94
		Left Tilted	0.375	0.558	0.161	0.214	0.114	1.09	1.15	1.05
LTE Band 25 Ant 0	LTE Band 66 Ant1	Right Cheek	0.448	0.572	0.161	0.214	0.050	1.18	1.23	1.07
		Right Tilted	0.371	0.636	0.161	0.214	0.044	1.17	1.22	1.05
		Left Cheek	0.451	0.389	0.161	0.214	0.120	1.00	1.05	0.96
		Left Tilted	0.375	0.463	0.161	0.214	0.114	1.00	1.05	0.95
LTE Band 66 Ant 0	LTE Band 26 Ant1	Right Cheek	0.382	0.538	0.161	0.214	0.050	1.08	1.13	0.97
		Right Tilted	0.265	0.445	0.161	0.214	0.044	0.87	0.92	0.75
		Left Cheek	0.312	0.382	0.161	0.214	0.120	0.86	0.91	0.81
		Left Tilted	0.215	0.361	0.161	0.214	0.114	0.74	0.79	0.69
LTE Band 66 Ant 0	LTE Band 12 Ant1	Right Cheek	0.382	0.584	0.161	0.214	0.050	1.13	1.18	1.02
		Right Tilted	0.265	0.506	0.161	0.214	0.044	0.93	0.99	0.82
		Left Cheek	0.312	0.395	0.161	0.214	0.120	0.87	0.92	0.83
		Left Tilted	0.215	0.353	0.161	0.214	0.114	0.73	0.78	0.68
LTE Band 66 Ant 0	LTE Band 13 Ant1	Right Cheek	0.382	0.539	0.161	0.214	0.050	1.08	1.14	0.97
		Right Tilted	0.265	0.471	0.161	0.214	0.044	0.90	0.95	0.78
		Left Cheek	0.312	0.373	0.161	0.214	0.120	0.85	0.90	0.81
		Left Tilted	0.215	0.362	0.161	0.214	0.114	0.74	0.79	0.69
LTE Band 48 Ant2	LTE Band 26 Ant0	Right Cheek	0.304	0.456	0.161	0.214	0.050	0.92	0.97	0.81
		Right Tilted	0.362	0.232	0.161	0.214	0.044	0.76	0.81	0.64
		Left Cheek	0.372	0.405	0.161	0.214	0.120	0.94	0.99	0.90
		Left Tilted	0.558	0.229	0.161	0.214	0.114	0.95	1.00	0.90
LTE Band 30 Ant 0	LTE Band 26 Ant1	Right Cheek	0.177	0.538	0.161	0.214	0.050	0.88	0.93	0.77
		Right Tilted	0.198	0.445	0.161	0.214	0.044	0.80	0.86	0.69
		Left Cheek	0.229	0.382	0.161	0.214	0.120	0.77	0.83	0.73
		Left Tilted	0.163	0.361	0.161	0.214	0.114	0.69	0.74	0.64



WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3 Summed 1g SAR (W/kg)	1+2+4 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)
			WWAN	WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
LTE Band 66 Ant 0	LTE Band 26 Ant1	Right Cheek	0.382	0.538	0.161	0.214	0.050	1.08	1.13	0.97
		Right Tilted	0.265	0.445	0.161	0.214	0.044	0.87	0.92	0.75
		Left Cheek	0.312	0.382	0.161	0.214	0.120	0.86	0.91	0.81
		Left Tilted	0.215	0.361	0.161	0.214	0.114	0.74	0.79	0.69
LTE Band 66 Ant 0	LTE Band 7 Ant1	Right Cheek	0.382	0.444	0.161	0.214	0.050	0.99	1.04	0.88
		Right Tilted	0.265	0.515	0.161	0.214	0.044	0.94	0.99	0.82
		Left Cheek	0.312	0.148	0.161	0.214	0.120	0.62	0.67	0.58
		Left Tilted	0.215	0.194	0.161	0.214	0.114	0.57	0.62	0.52
LTE Band 30 Ant 0	LTE Band 12 Ant1	Right Cheek	0.177	0.584	0.161	0.214	0.050	0.92	0.98	0.81
		Right Tilted	0.198	0.506	0.161	0.214	0.044	0.87	0.92	0.75
		Left Cheek	0.229	0.395	0.161	0.214	0.120	0.79	0.84	0.74
		Left Tilted	0.163	0.353	0.161	0.214	0.114	0.68	0.73	0.63
LTE Band 66 Ant 0	LTE Band 12 Ant1	Right Cheek	0.382	0.584	0.161	0.214	0.050	1.13	1.18	1.02
		Right Tilted	0.265	0.506	0.161	0.214	0.044	0.93	0.99	0.82
		Left Cheek	0.312	0.395	0.161	0.214	0.120	0.87	0.92	0.83
		Left Tilted	0.215	0.353	0.161	0.214	0.114	0.73	0.78	0.68
LTE Band 13 Ant 0	LTE Band 48 Ant2	Right Cheek	0.515	0.304	0.161	0.214	0.050	0.98	1.03	0.87
		Right Tilted	0.324	0.362	0.161	0.214	0.044	0.85	0.90	0.73
		Left Cheek	0.462	0.372	0.161	0.214	0.120	1.00	1.05	0.95
		Left Tilted	0.287	0.558	0.161	0.214	0.114	1.01	1.06	0.96
LTE Band 13 Ant1	LTE Band 66 Ant 0	Right Cheek	0.539	0.382	0.161	0.214	0.050	1.08	1.14	0.97
		Right Tilted	0.471	0.265	0.161	0.214	0.044	0.90	0.95	0.78
		Left Cheek	0.373	0.312	0.161	0.214	0.120	0.85	0.90	0.81
		Left Tilted	0.362	0.215	0.161	0.214	0.114	0.74	0.79	0.69
LTE Band 14 Ant1	LTE Band 30 Ant 0	Right Cheek	0.584	0.177	0.161	0.214	0.050	0.92	0.98	0.81
		Right Tilted	0.514	0.198	0.161	0.214	0.044	0.87	0.93	0.76
		Left Cheek	0.427	0.229	0.161	0.214	0.120	0.82	0.87	0.78
		Left Tilted	0.390	0.163	0.161	0.214	0.114	0.71	0.77	0.67
LTE Band 14 Ant1	LTE Band 66 Ant 0	Right Cheek	0.584	0.382	0.161	0.214	0.050	1.13	1.18	1.02
		Right Tilted	0.514	0.265	0.161	0.214	0.044	0.94	0.99	0.82
		Left Cheek	0.427	0.312	0.161	0.214	0.120	0.90	0.95	0.86
		Left Tilted	0.390	0.215	0.161	0.214	0.114	0.77	0.82	0.72
LTE Band 66 Ant 0	LTE Band 48 Ant2	Right Cheek	0.382	0.304	0.161	0.214	0.050	0.85	0.90	0.74
		Right Tilted	0.265	0.362	0.161	0.214	0.044	0.79	0.84	0.67
		Left Cheek	0.312	0.372	0.161	0.214	0.120	0.85	0.90	0.80
		Left Tilted	0.215	0.558	0.161	0.214	0.114	0.93	0.99	0.89



16.2 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
GSM850 Ant 0	Front	0.701	0.165	0.139	0.084	0.87	0.84	0.79
	Back	1.397	0.165	0.184	0.107	1.56	1.58	1.50
	Left side	0.177	0.165	0.088	0.072	0.34	0.27	0.25
	Right side	0.521	0.165	0.076	0.079	0.69	0.60	0.60
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.310	0.165			1.48	1.31	1.31
GSM1900 Ant 0	Front	0.600	0.165	0.139	0.084	0.77	0.74	0.68
	Back	1.397	0.165	0.184	0.107	1.56	1.58	1.50
	Left side	0.499	0.165	0.088	0.072	0.66	0.59	0.57
	Right side	0.141	0.165	0.076	0.079	0.31	0.22	0.22
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.347	0.165			1.51	1.35	1.35
WCDMA II Ant 0	Front	0.540	0.165	0.139	0.084	0.71	0.68	0.62
	Back	1.260	0.165	0.184	0.107	1.43	1.44	1.37
	Left side	0.442	0.165	0.088	0.072	0.61	0.53	0.51
	Right side	0.121	0.165	0.076	0.079	0.29	0.20	0.20
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.352	0.165			1.52	1.35	1.35
WCDMA IV Ant 0	Front	0.495	0.165	0.139	0.084	0.66	0.63	0.58
	Back	1.388	0.165	0.184	0.107	1.55	1.57	1.50
	Left side	0.289	0.165	0.088	0.072	0.45	0.38	0.36
	Right side	0.108	0.165	0.076	0.079	0.27	0.18	0.19
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.340	0.165			1.51	1.34	1.34
WCDMA V Ant 0	Front	0.753	0.165	0.139	0.084	0.92	0.89	0.84
	Back	1.337	0.165	0.184	0.107	1.50	1.52	1.44
	Left side	0.206	0.165	0.088	0.072	0.37	0.29	0.28
	Right side	0.549	0.165	0.076	0.079	0.71	0.63	0.63
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.381	0.165			1.55	1.38	1.38
LTE Band 7 Ant 0	Front	0.843	0.165	0.139	0.084	1.01	0.98	0.93
	Back	1.373	0.165	0.184	0.107	1.54	1.56	1.48
	Left side	0.575	0.165	0.088	0.072	0.74	0.66	0.65
	Right side	0.190	0.165	0.076	0.079	0.36	0.27	0.27
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.047	0.165			1.21	1.05	1.05
LTE Band 12 Ant 0	Front	0.596	0.165	0.139	0.084	0.76	0.74	0.68
	Back	0.845	0.165	0.184	0.107	1.01	1.03	0.95
	Left side	0.460	0.165	0.088	0.072	0.63	0.55	0.53
	Right side	0.788	0.165	0.076	0.079	0.95	0.86	0.87
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	0.822	0.165			0.99	0.82	0.82
LTE Band 13 Ant 0	Front	0.784	0.165	0.139	0.084	0.95	0.92	0.87
	Back	1.113	0.165	0.184	0.107	1.28	1.30	1.22
	Left side	0.500	0.165	0.088	0.072	0.67	0.59	0.57
	Right side	0.812	0.165	0.076	0.079	0.98	0.89	0.89
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.268	0.165			1.43	1.27	1.27
LTE Band 13 Ant 1	Front	0.420	0.165	0.139	0.084	0.59	0.56	0.50
	Back	0.585	0.165	0.184	0.107	0.75	0.77	0.69



	Left side	0.566	0.165	0.088	0.072	0.73	0.65	0.64
	Right side	0.276	0.165	0.076	0.079	0.44	0.35	0.36
	Top side	0.795	0.165	0.246	0.081	0.96	1.04	0.88
	Bottom side		0.165			0.17	0.00	0.00
LTE Band 14 Ant 0	Front	0.784	0.165	0.139	0.084	0.95	0.92	0.87
	Back	1.136	0.165	0.184	0.107	1.30	1.32	1.24
	Left side	0.350	0.165	0.088	0.072	0.52	0.44	0.42
	Right side	0.771	0.165	0.076	0.079	0.94	0.85	0.85
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.395	0.165			1.56	1.40	1.40
LTE Band 25 Ant 0	Front	0.513	0.165	0.139	0.084	0.68	0.65	0.60
	Back	1.258	0.165	0.184	0.107	1.42	1.44	1.37
	Left side	0.411	0.165	0.088	0.072	0.58	0.50	0.48
	Right side	0.107	0.165	0.076	0.079	0.27	0.18	0.19
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.283	0.165			1.45	1.28	1.28
LTE Band 25 Ant 1	Front	0.750	0.165	0.139	0.084	0.92	0.89	0.83
	Back	1.259	0.165	0.184	0.107	1.42	1.44	1.37
	Left side	0.185	0.165	0.088	0.072	0.35	0.27	0.26
	Right side	0.040	0.165	0.076	0.079	0.21	0.12	0.12
	Top side	1.255	0.165	0.246	0.081	1.42	1.50	1.34
	Bottom side		0.165			0.17	0.00	0.00
LTE Band 26 Ant 0	Front	0.786	0.165	0.139	0.084	0.95	0.93	0.87
	Back	1.361	0.165	0.184	0.107	1.53	1.55	1.47
	Left side	0.208	0.165	0.088	0.072	0.37	0.30	0.28
	Right side	0.558	0.165	0.076	0.079	0.72	0.63	0.64
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.382	0.165			1.55	1.38	1.38
LTE Band 26 Ant 1	Front	0.782	0.165	0.139	0.084	0.95	0.92	0.87
	Back	1.263	0.165	0.184	0.107	1.43	1.45	1.37
	Left side	0.470	0.165	0.088	0.072	0.64	0.56	0.54
	Right side	0.273	0.165	0.076	0.079	0.44	0.35	0.35
	Top side	1.292	0.165	0.246	0.081	1.46	1.54	1.37
	Bottom side		0.165			0.17	0.00	0.00
LTE Band 30 Ant 0	Front	0.660	0.165	0.139	0.084	0.83	0.80	0.74
	Back	1.217	0.165	0.184	0.107	1.38	1.40	1.32
	Left side	0.144	0.165	0.088	0.072	0.31	0.23	0.22
	Right side	0.156	0.165	0.076	0.079	0.32	0.23	0.24
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.281	0.165			1.45	1.28	1.28
LTE Band 41 Ant 0	Front	0.586	0.165	0.139	0.084	0.75	0.73	0.67
	Back	0.957	0.165	0.184	0.107	1.12	1.14	1.06
	Left side	0.469	0.165	0.088	0.072	0.63	0.56	0.54
	Right side	0.128	0.165	0.076	0.079	0.29	0.20	0.21
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	0.725	0.165			0.89	0.73	0.73
LTE Band 66 Ant 0	Front	0.525	0.165	0.139	0.084	0.69	0.66	0.61
	Back	1.397	0.165	0.184	0.107	1.56	1.58	1.50
	Left side	0.300	0.165	0.088	0.072	0.47	0.39	0.37
	Right side	0.103	0.165	0.076	0.079	0.27	0.18	0.18
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.307	0.165			1.47	1.31	1.31
LTE Band 66 Ant 1	Front	0.755	0.165	0.139	0.084	0.92	0.89	0.84
	Back	1.261	0.165	0.184	0.107	1.43	1.45	1.37
	Left side	0.183	0.165	0.088	0.072	0.35	0.27	0.26
	Right side	0.038	0.165	0.076	0.079	0.20	0.11	0.12



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	Top side	1.329	0.165	0.246	0.081	1.49	1.58	1.41
	Bottom side		0.165			0.17	0.00	0.00
LTE Band 71 Ant 0	Front	0.457	0.165	0.139	0.084	0.62	0.60	0.54
	Back	0.834	0.165	0.184	0.107	1.00	1.02	0.94
	Left side	0.338	0.165	0.088	0.072	0.50	0.43	0.41
	Right side	0.570	0.165	0.076	0.079	0.74	0.65	0.65
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	0.657	0.165		0.000	0.82	0.66	0.66
LTE Band 48 Ant 2	Front	0.570	0.165	0.139	0.084	0.74	0.71	0.65
	Back	1.274	0.165	0.184	0.107	1.44	1.46	1.38
	Left side	0.110	0.165	0.088	0.072	0.28	0.20	0.18
	Right side	0.177	0.165	0.076	0.079	0.34	0.25	0.26
	Top side	1.190	0.165	0.246	0.081	1.36	1.44	1.27
	Bottom side		0.165			0.17	0.00	0.00

FR1 Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 1	Bluetooth Ant 8	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)
FR1 n12 Ant 0	Front	0.310	0.165	0.139	0.084	0.48	0.45	0.39
	Back	0.392	0.165	0.184	0.107	0.56	0.58	0.50
	Left side	0.327	0.165	0.088	0.072	0.49	0.42	0.40
	Right side	0.586	0.165	0.076	0.079	0.75	0.66	0.67
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	0.425	0.165			0.59	0.43	0.43
FR1 n14 Ant 0	Front	0.554	0.165	0.139	0.084	0.72	0.69	0.64
	Back	0.726	0.165	0.184	0.107	0.89	0.91	0.83
	Left side	0.249	0.165	0.088	0.072	0.41	0.34	0.32
	Right side	0.520	0.165	0.076	0.079	0.69	0.60	0.60
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	0.891	0.165			1.06	0.89	0.89
FR1 n25 Ant 0	Front	0.632	0.165	0.139	0.084	0.80	0.77	0.72
	Back	1.374	0.165	0.184	0.107	1.54	1.56	1.48
	Left side	0.458	0.165	0.088	0.072	0.62	0.55	0.53
	Right side	0.127	0.165	0.076	0.079	0.29	0.20	0.21
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.398	0.165			1.56	1.40	1.40
FR1 n26 Ant 0	Front	0.620	0.165	0.139	0.084	0.79	0.76	0.70
	Back	0.963	0.165	0.184	0.107	1.13	1.15	1.07
	Left side	0.209	0.165	0.088	0.072	0.37	0.30	0.28
	Right side	0.484	0.165	0.076	0.079	0.65	0.56	0.56
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.138	0.165			1.30	1.14	1.14
FR1 n66 Ant 0	Front	0.584	0.165	0.139	0.084	0.75	0.72	0.67
	Back	1.387	0.165	0.184	0.107	1.55	1.57	1.49
	Left side	0.318	0.165	0.088	0.072	0.48	0.41	0.39
	Right side	0.114	0.165	0.076	0.079	0.28	0.19	0.19
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	1.363	0.165			1.53	1.36	1.36
FR1 n70 Ant 0	Front at 5mm	0.583	0.165	0.139	0.084	0.75	0.72	0.67
	Back at 5mm	1.388	0.165	0.184	0.107	1.55	1.57	1.50
	Left side at 5mm	0.306	0.165	0.088	0.072	0.47	0.39	0.38
	Right side at 5mm	0.075	0.165	0.076	0.079	0.24	0.15	0.15
	Top side at 5mm		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side at 5mm	1.283	0.165			1.45	1.28	1.28
FR1 n41-HPUE	Front at 5mm	0.688	0.165	0.139	0.084	0.85	0.83	0.77
	Back at 5mm	1.121	0.165	0.184	0.107	1.29	1.31	1.23

Sporton International Inc. (Kunshan)

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Ant 0	Left side at 5mm	0.570	0.165	0.088	0.072	0.74	0.66	0.64
	Right side at 5mm	0.148	0.165	0.076	0.079	0.31	0.22	0.23
	Top side at 5mm		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side at 5mm	0.771	0.165			0.94	0.77	0.77
FR1 n71 Ant 0	Front	0.269	0.165	0.139	0.084	0.43	0.41	0.35
	Back	0.514	0.165	0.184	0.107	0.68	0.70	0.62
	Left side	0.192	0.165	0.088	0.072	0.36	0.28	0.26
	Right side	0.345	0.165	0.076	0.079	0.51	0.42	0.42
	Top side		0.165	0.246	0.081	0.17	0.25	0.08
	Bottom side	0.321	0.165			0.49	0.32	0.32
FR1 n77 Part 270(HPUE) Ant 2	Front	0.591	0.165	0.139	0.084	0.76	0.73	0.68
	Back	1.364	0.165	0.184	0.107	1.53	1.55	1.47
	Left side	0.087	0.165	0.088	0.072	0.25	0.18	0.16
	Right side	0.166	0.165	0.076	0.079	0.33	0.24	0.25
	Top side	1.250	0.165	0.246	0.081	1.42	1.50	1.33
	Bottom side		0.165			0.17	0.00	0.00
FR1 n77 Part 27Q(HPUE) Ant 2	Front	0.536	0.165	0.139	0.084	0.70	0.68	0.62
	Back	0.747	0.165	0.184	0.107	0.91	0.93	0.85
	Left side	0.064	0.165	0.088	0.072	0.23	0.15	0.14
	Right side	0.117	0.165	0.076	0.079	0.28	0.19	0.20
	Top side	0.758	0.165	0.246	0.081	0.92	1.00	0.84
	Bottom side		0.165			0.17	0.00	0.00

<EN-DC Mode>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 25 Ant0	FR1 n25 Ant1	Front	0.300	0.240	0.165	0.139	0.084	0.71	0.68	0.62
		Back	0.709	0.382	0.165	0.184	0.107	1.26	1.28	1.20
		Left side	0.243	0.081	0.165	0.088	0.072	0.49	0.41	0.40
		Right side	0.064	0.016	0.165	0.076	0.079	0.25	0.16	0.16
		Top side		0.513	0.165	0.246	0.081	0.68	0.76	0.59
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	FR1 n5 Ant1	Front	0.300	0.365	0.165	0.139	0.084	0.83	0.80	0.75
		Back	0.709	0.550	0.165	0.184	0.107	1.42	1.44	1.37
		Left side	0.243	0.190	0.165	0.088	0.072	0.60	0.52	0.51
		Right side	0.064	0.107	0.165	0.076	0.079	0.34	0.25	0.25
		Top side		0.526	0.165	0.246	0.081	0.69	0.77	0.61
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	FR1 n12 Ant1	Front	0.300	0.252	0.165	0.139	0.084	0.72	0.69	0.64
		Back	0.709	0.395	0.165	0.184	0.107	1.27	1.29	1.21
		Left side	0.243	0.323	0.165	0.088	0.072	0.73	0.65	0.64
		Right side	0.064	0.139	0.165	0.076	0.079	0.37	0.28	0.28
		Top side		0.465	0.165	0.246	0.081	0.63	0.71	0.55
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	FR1 n30 Ant1	Front	0.300	0.160	0.165	0.139	0.084	0.63	0.60	0.54
		Back	0.709	0.560	0.165	0.184	0.107	1.43	1.45	1.38
		Left side	0.243	0.082	0.165	0.088	0.072	0.49	0.41	0.40
		Right side	0.064	0.005	0.165	0.076	0.079	0.23	0.15	0.15
		Top side		0.562	0.165	0.246	0.081	0.73	0.81	0.64
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	FR1 n41-HPUE Ant1	Front	0.300	0.142	0.165	0.139	0.084	0.61	0.58	0.53
		Back	0.709	0.508	0.165	0.184	0.107	1.38	1.40	1.32
		Left side	0.243	0.159	0.165	0.088	0.072	0.57	0.49	0.47
		Right side	0.064	0.006	0.165	0.076	0.079	0.24	0.15	0.15



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		Top side		0.447	0.165	0.246	0.081	0.61	0.69	0.53
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	FR1 n66 Ant1	Front	0.300	0.322	0.165	0.139	0.084	0.79	0.76	0.71
		Back	0.709	0.520	0.165	0.184	0.107	1.39	1.41	1.34
		Left side	0.243	0.084	0.165	0.088	0.072	0.49	0.42	0.40
		Right side	0.064	0.038	0.165	0.076	0.079	0.27	0.18	0.18
		Top side		0.577	0.165	0.246	0.081	0.74	0.82	0.66
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	FR1 n71 Ant1	Front	0.300	0.177	0.165	0.139	0.084	0.64	0.62	0.56
		Back	0.709	0.320	0.165	0.184	0.107	1.19	1.21	1.14
		Left side	0.243	0.337	0.165	0.088	0.072	0.75	0.67	0.65
		Right side	0.064	0.139	0.165	0.076	0.079	0.37	0.28	0.28
		Top side		0.408	0.165	0.246	0.081	0.57	0.65	0.49
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.300	0.274	0.165	0.139	0.084	0.74	0.71	0.66
		Back	0.709	0.439	0.165	0.184	0.107	1.31	1.33	1.26
		Left side	0.243	0.043	0.165	0.088	0.072	0.45	0.37	0.36
		Right side	0.064	0.085	0.165	0.076	0.079	0.31	0.23	0.23
		Top side		0.461	0.165	0.246	0.081	0.63	0.71	0.54
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.300	0.342	0.165	0.139	0.084	0.81	0.78	0.73
		Back	0.709	0.477	0.165	0.184	0.107	1.35	1.37	1.29
		Left side	0.243	0.034	0.165	0.088	0.072	0.44	0.37	0.35
		Right side	0.064	0.062	0.165	0.076	0.079	0.29	0.20	0.21
		Top side		0.400	0.165	0.246	0.081	0.57	0.65	0.48
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 26 Ant1	FR1 n25 Ant0	Front	0.349	0.329	0.165	0.139	0.084	0.84	0.82	0.76
		Back	0.565	0.715	0.165	0.184	0.107	1.45	1.46	1.39
		Left side	0.143	0.235	0.165	0.088	0.072	0.54	0.47	0.45
		Right side	0.083	0.065	0.165	0.076	0.079	0.31	0.22	0.23
		Top side	0.419		0.165	0.246	0.081	0.58	0.67	0.50
		Bottom side		0.718	0.165			0.88	0.72	0.72
LTE Band 26 Ant1	FR1 n30 Ant0	Front	0.349	0.328	0.165	0.139	0.084	0.84	0.82	0.76
		Back	0.565	0.597	0.165	0.184	0.107	1.33	1.35	1.27
		Left side	0.143	0.084	0.165	0.088	0.072	0.39	0.32	0.30
		Right side	0.083	0.094	0.165	0.076	0.079	0.34	0.25	0.26
		Top side	0.419		0.165	0.246	0.081	0.58	0.67	0.50
		Bottom side		0.627	0.165			0.79	0.63	0.63
LTE Band 26 Ant1	FR1 n66 Ant0	Front	0.349	0.297	0.165	0.139	0.084	0.81	0.79	0.73
		Back	0.565	0.761	0.165	0.184	0.107	1.49	1.51	1.43
		Left side	0.143	0.178	0.165	0.088	0.072	0.49	0.41	0.39
		Right side	0.083	0.063	0.165	0.076	0.079	0.31	0.22	0.23
		Top side	0.419		0.165	0.246	0.081	0.58	0.67	0.50
		Bottom side		0.795	0.165			0.96	0.80	0.80
LTE Band 5 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.386	0.274	0.165	0.139	0.084	0.83	0.80	0.74
		Back	0.627	0.439	0.165	0.184	0.107	1.23	1.25	1.17
		Left side	0.100	0.043	0.165	0.088	0.072	0.31	0.23	0.22
		Right side	0.271	0.085	0.165	0.076	0.079	0.52	0.43	0.44
		Top side		0.461	0.165	0.246	0.081	0.63	0.71	0.54
		Bottom side	0.625		0.165			0.79	0.63	0.63
LTE Band 5 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.386	0.342	0.165	0.139	0.084	0.89	0.87	0.81
		Back	0.627	0.477	0.165	0.184	0.107	1.27	1.29	1.21
		Left side	0.100	0.034	0.165	0.088	0.072	0.30	0.22	0.21
		Right side	0.271	0.062	0.165	0.076	0.079	0.50	0.41	0.41
		Top side		0.400	0.165	0.246	0.081	0.57	0.65	0.48
		Bottom side	0.625		0.165			0.79	0.63	0.63



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LTE Band 7 Ant0	FR1 n25 Ant1	Front	0.385	0.240	0.165	0.139	0.084	0.79	0.76	0.71
		Back	0.622	0.382	0.165	0.184	0.107	1.17	1.19	1.11
		Left side	0.270	0.081	0.165	0.088	0.072	0.52	0.44	0.42
		Right side	0.088	0.016	0.165	0.076	0.079	0.27	0.18	0.18
		Top side		0.513	0.165	0.246	0.081	0.68	0.76	0.59
		Bottom side	0.492		0.165			0.66	0.49	0.49
LTE Band 7 Ant0	FR1 n5 Ant1	Front	0.385	0.365	0.165	0.139	0.084	0.92	0.89	0.83
		Back	0.622	0.550	0.165	0.184	0.107	1.34	1.36	1.28
		Left side	0.270	0.190	0.165	0.088	0.072	0.63	0.55	0.53
		Right side	0.088	0.107	0.165	0.076	0.079	0.36	0.27	0.27
		Top side		0.526	0.165	0.246	0.081	0.69	0.77	0.61
		Bottom side	0.492		0.165			0.66	0.49	0.49
LTE Band 7 Ant0	FR1 n66 Ant1	Front	0.385	0.322	0.165	0.139	0.084	0.87	0.85	0.79
		Back	0.622	0.520	0.165	0.184	0.107	1.31	1.33	1.25
		Left side	0.270	0.084	0.165	0.088	0.072	0.52	0.44	0.43
		Right side	0.088	0.038	0.165	0.076	0.079	0.29	0.20	0.21
		Top side		0.577	0.165	0.246	0.081	0.74	0.82	0.66
		Bottom side	0.492		0.165			0.66	0.49	0.49
LTE Band 7 Ant0	FR1 n71 Ant1	Front	0.385	0.177	0.165	0.139	0.084	0.73	0.70	0.65
		Back	0.622	0.320	0.165	0.184	0.107	1.11	1.13	1.05
		Left side	0.270	0.337	0.165	0.088	0.072	0.77	0.70	0.68
		Right side	0.088	0.139	0.165	0.076	0.079	0.39	0.30	0.31
		Top side		0.408	0.165	0.246	0.081	0.57	0.65	0.49
		Bottom side	0.492		0.165			0.66	0.49	0.49

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 7 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front	0.385	0.274	0.165	0.139	0.084	0.82	0.80	0.74
		Back	0.622	0.439	0.165	0.184	0.107	1.23	1.25	1.17
		Left side	0.270	0.043	0.165	0.088	0.072	0.48	0.40	0.39
		Right side	0.088	0.085	0.165	0.076	0.079	0.34	0.25	0.25
		Top side		0.461	0.165	0.246	0.081	0.63	0.71	0.54
		Bottom side	0.492		0.165			0.66	0.49	0.49
LTE Band 7 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front	0.385	0.274	0.165	0.139	0.084	0.82	0.80	0.74
		Back	0.622	0.439	0.165	0.184	0.107	1.23	1.25	1.17
		Left side	0.270	0.043	0.165	0.088	0.072	0.48	0.40	0.39
		Right side	0.088	0.085	0.165	0.076	0.079	0.34	0.25	0.25
		Top side		0.461	0.165	0.246	0.081	0.63	0.71	0.54
		Bottom side	0.492		0.165			0.66	0.49	0.49
LTE Band 12 Ant1	FR1 n25 Ant0	Front	0.261	0.329	0.165	0.139	0.084	0.76	0.73	0.67
		Back	0.563	0.715	0.165	0.184	0.107	1.44	1.46	1.39
		Left side	0.276	0.235	0.165	0.088	0.072	0.68	0.60	0.58
		Right side	0.096	0.065	0.165	0.076	0.079	0.33	0.24	0.24
		Top side	0.452		0.165	0.246	0.081	0.62	0.70	0.53
		Bottom side		0.718	0.165			0.88	0.72	0.72
LTE Band 12 Ant1	FR1 n25 Ant0	Front	0.261	0.329	0.165	0.139	0.084	0.76	0.73	0.67
		Back	0.563	0.715	0.165	0.184	0.107	1.44	1.46	1.39
		Left side	0.276	0.235	0.165	0.088	0.072	0.68	0.60	0.58
		Right side	0.096	0.065	0.165	0.076	0.079	0.33	0.24	0.24
		Top side	0.452		0.165	0.246	0.081	0.62	0.70	0.53
		Bottom side		0.718	0.165			0.88	0.72	0.72
LTE Band 12 Ant0	FR1 n30 Ant0	Front	0.261	0.328	0.165	0.139	0.084	0.75	0.73	0.67
		Back	0.563	0.597	0.165	0.184	0.107	1.33	1.34	1.27



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Ant1		Left side	0.276	0.084	0.165	0.088	0.072	0.53	0.45	0.43
		Right side	0.096	0.094	0.165	0.076	0.079	0.36	0.27	0.27
		Top side	0.452		0.165	0.246	0.081	0.62	0.70	0.53
		Bottom side		0.627	0.165			0.79	0.63	0.63
LTE Band 12 Ant1	FR1 n41-HPUE Ant0	Front	0.261	0.480	0.165	0.139	0.084	0.91	0.88	0.83
		Back	0.563	0.639	0.165	0.184	0.107	1.37	1.39	1.31
		Left side	0.276	0.290	0.165	0.088	0.072	0.73	0.65	0.64
		Right side	0.096	0.076	0.165	0.076	0.079	0.34	0.25	0.25
		Top side	0.452		0.165	0.246	0.081	0.62	0.70	0.53
		Bottom side		0.423	0.165			0.59	0.42	0.42
LTE Band 12 Ant1	FR1 n66 Ant0	Front	0.261	0.297	0.165	0.139	0.084	0.72	0.70	0.64
		Back	0.563	0.761	0.165	0.184	0.107	1.49	1.51	1.43
		Left side	0.276	0.178	0.165	0.088	0.072	0.62	0.54	0.53
		Right side	0.096	0.063	0.165	0.076	0.079	0.32	0.24	0.24
		Top side	0.452		0.165	0.246	0.081	0.62	0.70	0.53
		Bottom side		0.795	0.165			0.96	0.80	0.80
LTE Band 12 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.441	0.274	0.165	0.139	0.084	0.88	0.85	0.80
		Back	0.626	0.439	0.165	0.184	0.107	1.23	1.25	1.17
		Left side	0.303	0.043	0.165	0.088	0.072	0.51	0.43	0.42
		Right side	0.545	0.085	0.165	0.076	0.079	0.80	0.71	0.71
		Top side		0.461	0.165	0.246	0.081	0.63	0.71	0.54
		Bottom side	0.542		0.165			0.71	0.54	0.54
LTE Band 12 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.441	0.342	0.165	0.139	0.084	0.95	0.92	0.87
		Back	0.626	0.477	0.165	0.184	0.107	1.27	1.29	1.21
		Left side	0.303	0.034	0.165	0.088	0.072	0.50	0.43	0.41
		Right side	0.545	0.062	0.165	0.076	0.079	0.77	0.68	0.69
		Top side		0.400	0.165	0.246	0.081	0.57	0.65	0.48
		Bottom side	0.542		0.165			0.71	0.54	0.54
LTE Band 13 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.464	0.274	0.165	0.139	0.084	0.90	0.88	0.82
		Back	0.658	0.439	0.165	0.184	0.107	1.26	1.28	1.20
		Left side	0.265	0.043	0.165	0.088	0.072	0.47	0.40	0.38
		Right side	0.431	0.085	0.165	0.076	0.079	0.68	0.59	0.60
		Top side		0.461	0.165	0.246	0.081	0.63	0.71	0.54
		Bottom side	0.674		0.165			0.84	0.67	0.67
LTE Band 13 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.464	0.342	0.165	0.139	0.084	0.97	0.95	0.89
		Back	0.658	0.477	0.165	0.184	0.107	1.30	1.32	1.24
		Left side	0.265	0.034	0.165	0.088	0.072	0.46	0.39	0.37
		Right side	0.431	0.062	0.165	0.076	0.079	0.66	0.57	0.57
		Top side		0.400	0.165	0.246	0.081	0.57	0.65	0.48
		Bottom side	0.674		0.165			0.84	0.67	0.67
LTE Band 13 Ant1	FR1 n25 Ant0	Front	0.420	0.329	0.165	0.139	0.084	0.91	0.89	0.83
		Back	0.585	0.715	0.165	0.184	0.107	1.47	1.48	1.41
		Left side	0.419	0.235	0.165	0.088	0.072	0.82	0.74	0.73
		Right side	0.205	0.065	0.165	0.076	0.079	0.44	0.35	0.35
		Top side	0.584		0.165	0.246	0.081	0.75	0.83	0.67
		Bottom side		0.718	0.165			0.88	0.72	0.72
LTE Band 13 Ant1	FR1 n66 Ant0	Front	0.420	0.297	0.165	0.139	0.084	0.88	0.86	0.80
		Back	0.585	0.761	0.165	0.184	0.107	1.51	1.53	1.45
		Left side	0.419	0.178	0.165	0.088	0.072	0.76	0.69	0.67
		Right side	0.205	0.063	0.165	0.076	0.079	0.43	0.34	0.35
		Top side	0.584		0.165	0.246	0.081	0.75	0.83	0.67
		Bottom side		0.795	0.165			0.96	0.80	0.80
LTE Band 14 Ant1	FR1 n25 Ant0	Front	0.408	0.329	0.165	0.139	0.084	0.90	0.88	0.82
		Back	0.609	0.715	0.165	0.184	0.107	1.49	1.51	1.43
		Left side	0.249	0.235	0.165	0.088	0.072	0.65	0.57	0.56
		Right side	0.121	0.065	0.165	0.076	0.079	0.35	0.26	0.27



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		Top side	0.518		0.165	0.246	0.081	0.68	0.76	0.60
		Bottom side		0.718	0.165			0.88	0.72	0.72
LTE Band 14 Ant1	FR1 n30 Ant0	Front	0.408	0.328	0.165	0.139	0.084	0.90	0.88	0.82
		Back	0.609	0.597	0.165	0.184	0.107	1.37	1.39	1.31
		Left side	0.249	0.084	0.165	0.088	0.072	0.50	0.42	0.41
		Right side	0.121	0.094	0.165	0.076	0.079	0.38	0.29	0.29
		Top side	0.518		0.165	0.246	0.081	0.68	0.76	0.60
		Bottom side		0.627	0.165			0.79	0.63	0.63
LTE Band 14 Ant1	FR1 n66 Ant0	Front	0.408	0.297	0.165	0.139	0.084	0.87	0.84	0.79
		Back	0.609	0.761	0.165	0.184	0.107	1.54	1.55	1.48
		Left side	0.249	0.178	0.165	0.088	0.072	0.59	0.52	0.50
		Right side	0.121	0.063	0.165	0.076	0.079	0.35	0.26	0.26
		Top side	0.518		0.165	0.246	0.081	0.68	0.76	0.60
		Bottom side		0.795	0.165			0.96	0.80	0.80
LTE Band 14 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.439	0.274	0.165	0.139	0.084	0.88	0.85	0.80
		Back	0.637	0.439	0.165	0.184	0.107	1.24	1.26	1.18
		Left side	0.158	0.043	0.165	0.088	0.072	0.37	0.29	0.27
		Right side	0.347	0.085	0.165	0.076	0.079	0.60	0.51	0.51
		Top side		0.461	0.165	0.246	0.081	0.63	0.71	0.54
		Bottom side	0.628		0.165			0.79	0.63	0.63
LTE Band 14 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.439	0.342	0.165	0.139	0.084	0.95	0.92	0.87
		Back	0.637	0.477	0.165	0.184	0.107	1.28	1.30	1.22
		Left side	0.158	0.034	0.165	0.088	0.072	0.36	0.28	0.26
		Right side	0.347	0.062	0.165	0.076	0.079	0.57	0.49	0.49
		Top side		0.400	0.165	0.246	0.081	0.57	0.65	0.48
		Bottom side	0.628		0.165			0.79	0.63	0.63
LTE Band 25 Ant0	FR1 n41-HPUE Ant1	Front	0.439	0.342	0.165	0.139	0.084	0.95	0.92	0.87
		Back	0.637	0.477	0.165	0.184	0.107	1.28	1.30	1.22
		Left side	0.158	0.034	0.165	0.088	0.072	0.36	0.28	0.26
		Right side	0.347	0.062	0.165	0.076	0.079	0.57	0.49	0.49
		Top side		0.400	0.165	0.246	0.081	0.57	0.65	0.48
		Bottom side	0.628		0.165			0.79	0.63	0.63

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 25 Ant0	FR1 n66 Ant1	Front	0.300	0.322	0.165	0.139	0.084	0.79	0.76	0.71
		Back	0.709	0.520	0.165	0.184	0.107	1.39	1.41	1.34
		Left side	0.243	0.084	0.165	0.088	0.072	0.49	0.42	0.40
		Right side	0.064	0.038	0.165	0.076	0.079	0.27	0.18	0.18
		Top side		0.577	0.165	0.246	0.081	0.74	0.82	0.66
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 26 Ant1	FR1 n41-HPUE Ant0	Front	0.349	0.480	0.165	0.139	0.084	0.99	0.97	0.91
		Back	0.565	0.639	0.165	0.184	0.107	1.37	1.39	1.31
		Left side	0.143	0.290	0.165	0.088	0.072	0.60	0.52	0.51
		Right side	0.083	0.076	0.165	0.076	0.079	0.32	0.24	0.24
		Top side	0.419		0.165	0.246	0.081	0.58	0.67	0.50
		Bottom side		0.423	0.165			0.59	0.42	0.42
LTE Band 30 Ant0	FR1 n25 Ant1	Front	0.365	0.240	0.165	0.139	0.084	0.77	0.74	0.69
		Back	0.673	0.382	0.165	0.184	0.107	1.22	1.24	1.16
		Left side	0.072	0.081	0.165	0.088	0.072	0.32	0.24	0.23
		Right side	0.078	0.016	0.165	0.076	0.079	0.26	0.17	0.17
		Top side		0.513	0.165	0.246	0.081	0.68	0.76	0.59
		Bottom side	0.649		0.165			0.81	0.65	0.65



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LTE Band 30 Ant0	FR1 n5 Ant1	Front	0.365	0.365	0.165	0.139	0.084	0.90	0.87	0.81
		Back	0.673	0.550	0.165	0.184	0.107	1.39	1.41	1.33
		Left side	0.072	0.190	0.165	0.088	0.072	0.43	0.35	0.33
		Right side	0.078	0.107	0.165	0.076	0.079	0.35	0.26	0.26
		Top side		0.526	0.165	0.246	0.081	0.69	0.77	0.61
		Bottom side	0.649		0.165			0.81	0.65	0.65
LTE Band 30 Ant0	FR1 n66 Ant1	Front	0.365	0.322	0.165	0.139	0.084	0.85	0.83	0.77
		Back	0.673	0.520	0.165	0.184	0.107	1.36	1.38	1.30
		Left side	0.072	0.084	0.165	0.088	0.072	0.32	0.24	0.23
		Right side	0.078	0.038	0.165	0.076	0.079	0.28	0.19	0.20
		Top side		0.577	0.165	0.246	0.081	0.74	0.82	0.66
		Bottom side	0.649		0.165			0.81	0.65	0.65
LTE Band 30 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.365	0.274	0.165	0.139	0.084	0.80	0.78	0.72
		Back	0.673	0.439	0.165	0.184	0.107	1.28	1.30	1.22
		Left side	0.072	0.043	0.165	0.088	0.072	0.28	0.20	0.19
		Right side	0.078	0.085	0.165	0.076	0.079	0.33	0.24	0.24
		Top side		0.461	0.165	0.246	0.081	0.63	0.71	0.54
		Bottom side	0.649		0.165			0.81	0.65	0.65
LTE Band 30 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Top side	0.365	0.342	0.165	0.139	0.084	0.87	0.85	0.79
		Bottom side	0.673	0.477	0.165	0.184	0.107	1.32	1.33	1.26
		Top side	0.072	0.034	0.165	0.088	0.072	0.27	0.19	0.18
		Bottom side	0.078	0.062	0.165	0.076	0.079	0.31	0.22	0.22
		Top side		0.400	0.165	0.246	0.081	0.57	0.65	0.48
		Bottom side	0.649		0.165			0.81	0.65	0.65
LTE Band 48 Ant2	FR1 n25 Ant0	Front	0.270	0.329	0.165	0.139	0.084	0.76	0.74	0.68
		Back	0.513	0.715	0.165	0.184	0.107	1.39	1.41	1.34
		Left side	0.051	0.235	0.165	0.088	0.072	0.45	0.37	0.36
		Right side	0.082	0.065	0.165	0.076	0.079	0.31	0.22	0.23
		Top side	0.447		0.165	0.246	0.081	0.61	0.69	0.53
		Bottom side		0.718	0.165			0.88	0.72	0.72
LTE Band 66 Ant0	FR1 n25 Ant1	Front	0.292	0.240	0.165	0.139	0.084	0.70	0.67	0.62
		Back	0.736	0.382	0.165	0.184	0.107	1.28	1.30	1.23
		Left side	0.178	0.081	0.165	0.088	0.072	0.42	0.35	0.33
		Right side	0.060	0.016	0.165	0.076	0.079	0.24	0.15	0.16
		Top side		0.513	0.165	0.246	0.081	0.68	0.76	0.59
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 66 Ant0	FR1 n5 Ant1	Front	0.292	0.365	0.165	0.139	0.084	0.82	0.80	0.74
		Back	0.736	0.550	0.165	0.184	0.107	1.45	1.47	1.39
		Left side	0.178	0.190	0.165	0.088	0.072	0.53	0.46	0.44
		Right side	0.060	0.107	0.165	0.076	0.079	0.33	0.24	0.25
		Top side		0.526	0.165	0.246	0.081	0.69	0.77	0.61
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 66 Ant0	FR1 n12 Ant1	Front	0.292	0.252	0.165	0.139	0.084	0.71	0.68	0.63
		Back	0.736	0.395	0.165	0.184	0.107	1.30	1.32	1.24
		Left side	0.178	0.323	0.165	0.088	0.072	0.67	0.59	0.57
		Right side	0.060	0.139	0.165	0.076	0.079	0.36	0.28	0.28
		Top side		0.465	0.165	0.246	0.081	0.63	0.71	0.55
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 66 Ant0	FR1 n25 Ant1	Front	0.292	0.240	0.165	0.139	0.084	0.70	0.67	0.62
		Back	0.736	0.382	0.165	0.184	0.107	1.28	1.30	1.23
		Left side	0.178	0.081	0.165	0.088	0.072	0.42	0.35	0.33
		Right side	0.060	0.016	0.165	0.076	0.079	0.24	0.15	0.16
		Top side		0.513	0.165	0.246	0.081	0.68	0.76	0.59
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 66	FR1 n30 Ant1	Front	0.292	0.160	0.165	0.139	0.084	0.62	0.59	0.54
		Back	0.736	0.560	0.165	0.184	0.107	1.46	1.48	1.40



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Ant0		Left side	0.178	0.082	0.165	0.088	0.072	0.43	0.35	0.33
		Right side	0.060	0.005	0.165	0.076	0.079	0.23	0.14	0.14
		Top side		0.562	0.165	0.246	0.081	0.73	0.81	0.64
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 66 Ant0	FR1 n41-HPUE Ant1	Front	0.292	0.142	0.165	0.139	0.084	0.60	0.57	0.52
		Back	0.736	0.508	0.165	0.184	0.107	1.41	1.43	1.35
		Left side	0.178	0.159	0.165	0.088	0.072	0.50	0.43	0.41
		Right side	0.060	0.006	0.165	0.076	0.079	0.23	0.14	0.15
		Top side		0.447	0.165	0.246	0.081	0.61	0.69	0.53
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 66 Ant0	FR1 n71 Ant1	Front	0.292	0.177	0.165	0.139	0.084	0.63	0.61	0.55
		Back	0.736	0.320	0.165	0.184	0.107	1.22	1.24	1.16
		Left side	0.178	0.337	0.165	0.088	0.072	0.68	0.60	0.59
		Right side	0.060	0.139	0.165	0.076	0.079	0.36	0.28	0.28
		Top side		0.408	0.165	0.246	0.081	0.57	0.65	0.49
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 66 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.292	0.274	0.165	0.139	0.084	0.73	0.71	0.65
		Back	0.736	0.439	0.165	0.184	0.107	1.34	1.36	1.28
		Left side	0.178	0.043	0.165	0.088	0.072	0.39	0.31	0.29
		Right side	0.060	0.085	0.165	0.076	0.079	0.31	0.22	0.22
		Top side		0.461	0.165	0.246	0.081	0.63	0.71	0.54
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 66 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.292	0.342	0.165	0.139	0.084	0.80	0.77	0.72
		Back	0.736	0.477	0.165	0.184	0.107	1.38	1.40	1.32
		Left side	0.178	0.034	0.165	0.088	0.072	0.38	0.30	0.28
		Right side	0.060	0.062	0.165	0.076	0.079	0.29	0.20	0.20
		Top side		0.400	0.165	0.246	0.081	0.57	0.65	0.48
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 71 Ant1	FR1 n25 Ant0	Front	0.189	0.329	0.165	0.139	0.084	0.68	0.66	0.60
		Back	0.428	0.715	0.165	0.184	0.107	1.31	1.33	1.25
		Left side	0.302	0.235	0.165	0.088	0.072	0.70	0.63	0.61
		Right side	0.122	0.065	0.165	0.076	0.079	0.35	0.26	0.27
		Top side	0.410		0.165	0.246	0.081	0.58	0.66	0.49
		Bottom side		0.718	0.165			0.88	0.72	0.72
LTE Band 71 Ant1	FR1 n41-HPUE Ant0	Front	0.189	0.480	0.165	0.139	0.084	0.83	0.81	0.75
		Back	0.428	0.639	0.165	0.184	0.107	1.23	1.25	1.17
		Left side	0.302	0.290	0.165	0.088	0.072	0.76	0.68	0.66
		Right side	0.122	0.076	0.165	0.076	0.079	0.36	0.27	0.28
		Top side	0.410		0.165	0.246	0.081	0.58	0.66	0.49
		Bottom side		0.423	0.165			0.59	0.42	0.42
LTE Band 71 Ant1	FR1 n66 Ant0	Front	0.189	0.480	0.165	0.139	0.084	0.83	0.81	0.75
		Back	0.428	0.639	0.165	0.184	0.107	1.23	1.25	1.17
		Left side	0.302	0.290	0.165	0.088	0.072	0.76	0.68	0.66
		Right side	0.122	0.076	0.165	0.076	0.079	0.36	0.27	0.28
		Top side	0.410		0.165	0.246	0.081	0.58	0.66	0.49
		Bottom side		0.423	0.165			0.59	0.42	0.42



<Inter UL CA Mode>

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 66 Ant0	LTE Band 48 Ant2	Front	0.292	0.280	0.165	0.139	0.084	0.74	0.71	0.66
		Back	0.736	0.533	0.165	0.184	0.107	1.43	1.45	1.38
		Left side	0.178	0.052	0.165	0.088	0.072	0.40	0.32	0.30
		Right side	0.060	0.084	0.165	0.076	0.079	0.31	0.22	0.22
		Top side		0.457	0.165	0.246	0.081	0.62	0.70	0.54
		Bottom side	0.718		0.165			0.88	0.72	0.72

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 25 Ant0	LTE Band 66 Ant1	Front	0.300	0.356	0.165	0.139	0.084	0.82	0.80	0.74
		Back	0.709	0.566	0.165	0.184	0.107	1.44	1.46	1.38
		Left side	0.243	0.093	0.165	0.088	0.072	0.50	0.42	0.41
		Right side	0.064	0.020	0.165	0.076	0.079	0.25	0.16	0.16
		Top side		0.562	0.165	0.246	0.081	0.73	0.81	0.64
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	LTE Band 26 Ant1	Front	0.300	0.349	0.165	0.139	0.084	0.81	0.79	0.73
		Back	0.709	0.565	0.165	0.184	0.107	1.44	1.46	1.38
		Left side	0.243	0.143	0.165	0.088	0.072	0.55	0.47	0.46
		Right side	0.064	0.083	0.165	0.076	0.079	0.31	0.22	0.23
		Top side		0.419	0.165	0.246	0.081	0.58	0.67	0.50
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	LTE Band 12 Ant1	Front	0.300	0.261	0.165	0.139	0.084	0.73	0.70	0.65
		Back	0.709	0.563	0.165	0.184	0.107	1.44	1.46	1.38
		Left side	0.243	0.276	0.165	0.088	0.072	0.68	0.61	0.59
		Right side	0.064	0.096	0.165	0.076	0.079	0.33	0.24	0.24
		Top side		0.452	0.165	0.246	0.081	0.62	0.70	0.53
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	LTE Band 13 Ant1	Front	0.300	0.420	0.165	0.139	0.084	0.89	0.86	0.80
		Back	0.709	0.585	0.165	0.184	0.107	1.46	1.48	1.40
		Left side	0.243	0.419	0.165	0.088	0.072	0.83	0.75	0.73
		Right side	0.064	0.205	0.165	0.076	0.079	0.43	0.35	0.35
		Top side		0.584	0.165	0.246	0.081	0.75	0.83	0.67
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	LTE Band 14 Ant1	Front	0.300	0.408	0.165	0.139	0.084	0.87	0.85	0.79
		Back	0.709	0.609	0.165	0.184	0.107	1.48	1.50	1.43
		Left side	0.243	0.249	0.165	0.088	0.072	0.66	0.58	0.56
		Right side	0.064	0.121	0.165	0.076	0.079	0.35	0.26	0.26
		Top side		0.518	0.165	0.246	0.081	0.68	0.76	0.60
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	LTE Band 48 Ant2	Front	0.300	0.270	0.165	0.139	0.084	0.74	0.71	0.65
		Back	0.709	0.513	0.165	0.184	0.107	1.39	1.41	1.33
		Left side	0.243	0.051	0.165	0.088	0.072	0.46	0.38	0.37
		Right side	0.064	0.082	0.165	0.076	0.079	0.31	0.22	0.23
		Top side		0.447	0.165	0.246	0.081	0.61	0.69	0.53
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 25 Ant0	LTE Band 66 Ant1	Front	0.300	0.356	0.165	0.139	0.084	0.82	0.80	0.74
		Back	0.709	0.566	0.165	0.184	0.107	1.44	1.46	1.38
		Left side	0.243	0.093	0.165	0.088	0.072	0.50	0.42	0.41



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		Right side	0.064	0.020	0.165	0.076	0.079	0.25	0.16	0.16
		Top side		0.562	0.165	0.246	0.081	0.73	0.81	0.64
		Bottom side	0.707		0.165			0.87	0.71	0.71
LTE Band 66 Ant0	LTE Band 26 Ant1	Front	0.292	0.349	0.165	0.139	0.084	0.81	0.78	0.73
		Back	0.736	0.565	0.165	0.184	0.107	1.47	1.49	1.41
		Left side	0.178	0.143	0.165	0.088	0.072	0.49	0.41	0.39
		Right side	0.060	0.083	0.165	0.076	0.079	0.31	0.22	0.22
		Top side		0.419	0.165	0.246	0.081	0.58	0.67	0.50
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 66 Ant0	LTE Band 12 Ant1	Front	0.292	0.261	0.165	0.139	0.084	0.72	0.69	0.64
		Back	0.736	0.563	0.165	0.184	0.107	1.46	1.48	1.41
		Left side	0.178	0.276	0.165	0.088	0.072	0.62	0.54	0.53
		Right side	0.060	0.096	0.165	0.076	0.079	0.32	0.23	0.24
		Top side		0.452	0.165	0.246	0.081	0.62	0.70	0.53
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 66 Ant0	LTE Band 13 Ant1	Front	0.292	0.420	0.165	0.139	0.084	0.88	0.85	0.80
		Back	0.736	0.585	0.165	0.184	0.107	1.49	1.51	1.43
		Left side	0.178	0.419	0.165	0.088	0.072	0.76	0.69	0.67
		Right side	0.060	0.205	0.165	0.076	0.079	0.43	0.34	0.34
		Top side		0.584	0.165	0.246	0.081	0.75	0.83	0.67
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 48 Ant2	LTE Band 5 Ant0	Front	0.270	0.386	0.165	0.139	0.084	0.82	0.80	0.74
		Back	0.513	0.627	0.165	0.184	0.107	1.31	1.32	1.25
		Left side	0.051	0.100	0.165	0.088	0.072	0.32	0.24	0.22
		Right side	0.082	0.271	0.165	0.076	0.079	0.52	0.43	0.43
		Top side	0.447		0.165	0.246	0.081	0.61	0.69	0.53
		Bottom side		0.625	0.165			0.79	0.63	0.63
LTE Band 30 Ant0	LTE Band 26 Ant1	Front	0.365	0.349	0.165	0.139	0.084	0.88	0.85	0.80
		Back	0.673	0.565	0.165	0.184	0.107	1.40	1.42	1.35
		Left side	0.072	0.143	0.165	0.088	0.072	0.38	0.30	0.29
		Right side	0.078	0.083	0.165	0.076	0.079	0.33	0.24	0.24
		Top side		0.419	0.165	0.246	0.081	0.58	0.67	0.50
		Bottom side	0.649		0.165			0.81	0.65	0.65
LTE Band 66 Ant0	LTE Band 26 Ant1	Front	0.292	0.349	0.165	0.139	0.084	0.81	0.78	0.73
		Back	0.736	0.565	0.165	0.184	0.107	1.47	1.49	1.41
		Left side	0.178	0.143	0.165	0.088	0.072	0.49	0.41	0.39
		Right side	0.060	0.083	0.165	0.076	0.079	0.31	0.22	0.22
		Top side		0.419	0.165	0.246	0.081	0.58	0.67	0.50
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 66 Ant0	LTE Band 7 Ant1	Front	0.292	0.115	0.165	0.139	0.084	0.57	0.55	0.49
		Back	0.736	0.474	0.165	0.184	0.107	1.38	1.39	1.32
		Left side	0.178	0.115	0.165	0.088	0.072	0.46	0.38	0.37
		Right side	0.060	0.003	0.165	0.076	0.079	0.23	0.14	0.14
		Top side		0.374	0.165	0.246	0.081	0.54	0.62	0.46
		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 30 Ant0	LTE Band 12 Ant1	Front	0.365	0.261	0.165	0.139	0.084	0.79	0.77	0.71
		Back	0.673	0.563	0.165	0.184	0.107	1.40	1.42	1.34
		Left side	0.072	0.276	0.165	0.088	0.072	0.51	0.44	0.42
		Right side	0.078	0.096	0.165	0.076	0.079	0.34	0.25	0.25
		Top side		0.452	0.165	0.246	0.081	0.62	0.70	0.53
		Bottom side	0.649		0.165			0.81	0.65	0.65
LTE Band 66 Ant0	LTE Band 12 Ant1	Front	0.292	0.261	0.165	0.139	0.084	0.72	0.69	0.64
		Back	0.736	0.563	0.165	0.184	0.107	1.46	1.48	1.41
		Left side	0.178	0.276	0.165	0.088	0.072	0.62	0.54	0.53
		Right side	0.060	0.096	0.165	0.076	0.079	0.32	0.23	0.24
		Top side		0.452	0.165	0.246	0.081	0.62	0.70	0.53



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		Bottom side	0.718		0.165			0.88	0.72	0.72
LTE Band 13 Ant0	LTE Band 48 Ant2	Front	0.464	0.270	0.165	0.139	0.084	0.90	0.87	0.82
		Back	0.658	0.513	0.165	0.184	0.107	1.34	1.36	1.28
		Left side	0.265	0.051	0.165	0.088	0.072	0.48	0.40	0.39
		Right side	0.431	0.082	0.165	0.076	0.079	0.68	0.59	0.59
		Top side		0.447	0.165	0.246	0.081	0.61	0.69	0.53
		Bottom side	0.674		0.165			0.84	0.67	0.67
LTE Band 13 Ant1	LTE Band 66 Ant0	Front	0.420	0.292	0.165	0.139	0.084	0.88	0.85	0.80
		Back	0.585	0.736	0.165	0.184	0.107	1.49	1.51	1.43
		Left side	0.419	0.178	0.165	0.088	0.072	0.76	0.69	0.67
		Right side	0.205	0.060	0.165	0.076	0.079	0.43	0.34	0.34
		Top side	0.584		0.165	0.246	0.081	0.75	0.83	0.67
		Bottom side		0.718	0.165			0.88	0.72	0.72
LTE Band 14 Ant1	LTE Band 30 Ant0	Front	0.408	0.365	0.165	0.139	0.084	0.94	0.91	0.86
		Back	0.609	0.673	0.165	0.184	0.107	1.45	1.47	1.39
		Left side	0.249	0.072	0.165	0.088	0.072	0.49	0.41	0.39
		Right side	0.121	0.078	0.165	0.076	0.079	0.36	0.28	0.28
		Top side	0.518		0.165	0.246	0.081	0.68	0.76	0.60
		Bottom side		0.649	0.165			0.81	0.65	0.65
LTE Band 14 Ant1	LTE Band 66 Ant0	Front	0.408	0.292	0.165	0.139	0.084	0.87	0.84	0.78
		Back	0.609	0.736	0.165	0.184	0.107	1.51	1.53	1.45
		Left side	0.249	0.178	0.165	0.088	0.072	0.59	0.52	0.50
		Right side	0.121	0.060	0.165	0.076	0.079	0.35	0.26	0.26
		Top side	0.518		0.165	0.246	0.081	0.68	0.76	0.60
		Bottom side		0.718	0.165			0.88	0.72	0.72



16.3 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
GSM850 Ant 0	Front	0.701	0.151	0.197	0.075	0.85	0.90	0.78
	Back	1.397	0.151	0.197	0.107	1.55	1.59	1.50
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.344	0.151	0.197	0.107	1.50	1.54	1.45
GSM1900 Ant 0	Front	0.600	0.151	0.197	0.075	0.75	0.80	0.68
	Back	1.397	0.151	0.197	0.107	1.55	1.59	1.50
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.320	0.151	0.197	0.107	1.47	1.52	1.43
WCDMA II Ant 0	Front	0.597	0.151	0.197	0.075	0.75	0.79	0.67
	Back	1.299	0.151	0.197	0.107	1.45	1.50	1.41
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.199	0.151	0.197	0.107	1.35	1.40	1.31
WCDMA IV Ant 0	Front	0.586	0.151	0.197	0.075	0.74	0.78	0.66
	Back	1.388	0.151	0.197	0.107	1.54	1.59	1.50
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.153	0.151	0.197	0.107	1.30	1.35	1.26
WCDMA V Ant 0	Front	0.753	0.151	0.197	0.075	0.90	0.95	0.83
	Back	1.384	0.151	0.197	0.107	1.54	1.58	1.49
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.181	0.151	0.197	0.107	1.33	1.38	1.29
LTE Band 7 Ant 0	Front	0.457	0.151	0.197	0.075	0.61	0.65	0.53
	Back	0.834	0.151	0.197	0.107	0.99	1.03	0.94
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 12 Ant 0	Front	0.596	0.151	0.197	0.075	0.75	0.79	0.67
	Back	0.845	0.151	0.197	0.107	1.00	1.04	0.95
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 13 Ant 0	Front	0.596	0.151	0.197	0.075	0.75	0.79	0.67
	Back	0.845	0.151	0.197	0.107	1.00	1.04	0.95
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 13 Ant 1	Front	0.420	0.151	0.197	0.075	0.57	0.62	0.50
	Back	0.585	0.151	0.197	0.107	0.74	0.78	0.69
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 14 Ant 0	Front	0.784	0.151	0.197	0.075	0.94	0.98	0.86
	Back	1.113	0.151	0.197	0.107	1.26	1.31	1.22
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 14 Ant 1	Front	0.420	0.151	0.197	0.075	0.57	0.62	0.50
	Back	0.585	0.151	0.197	0.107	0.74	0.78	0.69
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant 0	Front	0.604	0.151	0.197	0.075	0.76	0.80	0.68
	Back	1.258	0.151	0.197	0.107	1.41	1.46	1.37
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.196	0.151	0.197	0.107	1.35	1.39	1.30
LTE Band 25 Ant 1	Front	0.750	0.151	0.197	0.075	0.90	0.95	0.83
	Back	1.259	0.151	0.197	0.107	1.41	1.46	1.37



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	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.152	0.151	0.197	0.107	1.30	1.35	1.26
LTE Band 26 Ant 0	Front	0.786	0.151	0.197	0.075	0.94	0.98	0.86
	Back	1.361	0.151	0.197	0.107	1.51	1.56	1.47
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.292	0.151	0.197	0.107	1.44	1.49	1.40
LTE Band 26 Ant 1	Front	0.782	0.151	0.197	0.075	0.93	0.98	0.86
	Back	1.263	0.151	0.197	0.107	1.41	1.46	1.37
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.226	0.151	0.197	0.107	1.38	1.42	1.33
LTE Band 30 Ant 0	Front	0.660	0.151	0.197	0.075	0.81	0.86	0.74
	Back	1.217	0.151	0.197	0.107	1.37	1.41	1.32
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.100	0.151	0.197	0.107	1.25	1.30	1.21
LTE Band 41 Ant 0	Front	0.609	0.151	0.197	0.075	0.76	0.81	0.68
	Back	0.968	0.151	0.197	0.107	1.12	1.17	1.08
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 48 Ant 2	Front	0.755	0.151	0.197	0.075	0.91	0.95	0.83
	Back	1.261	0.151	0.197	0.107	1.41	1.46	1.37
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.206	0.151	0.197	0.107	1.36	1.40	1.31
LTE Band 66 Ant 0	Front	0.597	0.151	0.197	0.075	0.75	0.79	0.67
	Back	1.258	0.151	0.197	0.107	1.41	1.46	1.37
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.335	0.151	0.197	0.107	1.49	1.53	1.44
LTE Band 66 Ant 1	Front	0.750	0.151	0.197	0.075	0.90	0.95	0.83
	Back	1.259	0.151	0.197	0.107	1.41	1.46	1.37
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.178	0.151	0.197	0.107	1.33	1.38	1.29
LTE Band 71 Ant 0	Front	0.660	0.151	0.197	0.075	0.81	0.86	0.74
	Back	1.217	0.151	0.197	0.107	1.37	1.41	1.32
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
FR1 n12 Ant 0	Front	0.310	0.151	0.197	0.075	0.46	0.51	0.39
	Back	0.392	0.151	0.197	0.107	0.54	0.59	0.50
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
FR1 n14 Ant 0	Front	0.554	0.151	0.197	0.075	0.71	0.75	0.63
	Back	0.726	0.151	0.197	0.107	0.88	0.92	0.83
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
FR1 n25 Ant 0	Front	0.632	0.151	0.197	0.075	0.78	0.83	0.71
	Back	1.374	0.151	0.197	0.107	1.53	1.57	1.48
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.234	0.151	0.197	0.107	1.39	1.43	1.34
FR1 n26 Ant 0	Front	0.620	0.151	0.197	0.075	0.77	0.82	0.70
	Back	0.963	0.151	0.197	0.107	1.11	1.16	1.07
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
FR1 n41-HPUE	Front	0.798	0.151	0.197	0.075	0.95	1.00	0.87
	Back	1.121	0.151	0.197	0.107	1.27	1.32	1.23

Sporton International Inc. (Kunshan)

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Ant 0	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
FR1 n66 Ant 0	Front	0.584	0.151	0.197	0.075	0.74	0.78	0.66
	Back	1.387	0.151	0.197	0.107	1.54	1.58	1.49
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset	1.317	0.151	0.197	0.107	1.47	1.51	1.42
FR1 n71 Ant 0	Front	0.269	0.151	0.197	0.075	0.42	0.47	0.34
	Back	0.514	0.151	0.197	0.107	0.67	0.71	0.62
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
FR1 n70 Ant 0	Front	0.583	0.151	0.197	0.075	0.73	0.78	0.66
	Back	1.388	0.151	0.197	0.107	1.54	1.59	1.50
	Front with Headset		0.151	0.197	0.075	0.15	0.20	0.08
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11
FR1 n77 Part 27O(HPUE) Ant 2	Front	0.591	0.151	0.197	0.107	0.74	0.788	0.70
	Back	1.364	0.151	0.197	0.107	1.52	1.561	1.47
	Front with Headset		0.151	0.197	0.107	0.15	0.197	0.11
	Back with Headset	1.292	0.151	0.197	0.107	1.44	1.49	1.40
FR1 n77 Part 27Q(HPUE) Ant 2	Front	0.536	0.151	0.197	0.107	0.69	0.73	0.64
	Back	0.759	0.151	0.197	0.107	0.91	0.96	0.87
	Front with Headset		0.151	0.197	0.107	0.15	0.20	0.11
	Back with Headset		0.151	0.197	0.107	0.15	0.20	0.11

<5G NR EN-DC Mode>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 25 Ant0	FR1 n25 Ant1	Front	0.360	0.240	0.151	0.197	0.075	0.75	0.80	0.68
		Back	0.709	0.382	0.151	0.197	0.107	1.24	1.29	1.20
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	FR1 n5 Ant1	Front	0.360	0.365	0.151	0.197	0.075	0.88	0.92	0.80
		Back	0.709	0.550	0.151	0.197	0.107	1.41	1.46	1.37
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	FR1 n12 Ant1	Front	0.360	0.252	0.151	0.197	0.075	0.76	0.81	0.69
		Back	0.709	0.395	0.151	0.197	0.107	1.26	1.30	1.21
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	FR1 n30 Ant1	Front	0.360	0.373	0.151	0.197	0.075	0.88	0.93	0.81
		Back	0.709	0.560	0.151	0.197	0.107	1.42	1.47	1.38
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	FR1 n41-HPUE Ant1	Front	0.360	0.321	0.151	0.197	0.075	0.83	0.88	0.76
		Back	0.709	0.508	0.151	0.197	0.107	1.37	1.41	1.32
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	FR1 n66 Ant1	Front	0.360	0.322	0.151	0.197	0.075	0.83	0.88	0.76
		Back	0.709	0.520	0.151	0.197	0.107	1.38	1.43	1.34
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	FR1 n71 Ant1	Front	0.360	0.177	0.151	0.197	0.075	0.69	0.73	0.61
		Back	0.709	0.320	0.151	0.197	0.107	1.18	1.23	1.14
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11



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LTE Band 25 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front	0.360	0.274	0.151	0.197	0.075	0.79	0.83	0.71
		Back	0.709	0.439	0.151	0.197	0.107	1.30	1.35	1.26
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front	0.360	0.342	0.151	0.197	0.075	0.85	0.90	0.78
		Back	0.709	0.477	0.151	0.197	0.107	1.34	1.38	1.29
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 26 Ant1	FR1 n25 Ant0	Front	0.349	0.329	0.151	0.197	0.075	0.83	0.88	0.75
		Back	0.565	0.715	0.151	0.197	0.107	1.43	1.48	1.39
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 26 Ant1	FR1 n30 Ant0	Front	0.349	0.328	0.151	0.197	0.075	0.83	0.87	0.75
		Back	0.565	0.597	0.151	0.197	0.107	1.31	1.36	1.27
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 26 Ant1	FR1 n66 Ant0	Front	0.349	0.297	0.151	0.197	0.075	0.80	0.84	0.72
		Back	0.565	0.761	0.151	0.197	0.107	1.48	1.52	1.43
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 5 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front	0.386	0.274	0.151	0.197	0.075	0.81	0.86	0.74
		Back	0.627	0.439	0.151	0.197	0.107	1.22	1.26	1.17
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 5 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front	0.386	0.342	0.151	0.197	0.075	0.88	0.93	0.80
		Back	0.627	0.477	0.151	0.197	0.107	1.26	1.30	1.21
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 7 Ant0	FR1 n25 Ant1	Front	0.385	0.240	0.151	0.197	0.075	0.78	0.82	0.70
		Back	0.622	0.382	0.151	0.197	0.107	1.16	1.20	1.11
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 7 Ant0	FR1 n5 Ant1	Front	0.385	0.365	0.151	0.197	0.075	0.90	0.95	0.83
		Back	0.622	0.550	0.151	0.197	0.107	1.32	1.37	1.28
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 7 Ant0	FR1 n66 Ant1	Front	0.385	0.322	0.151	0.197	0.075	0.86	0.90	0.78
		Back	0.622	0.520	0.151	0.197	0.107	1.29	1.34	1.25
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 7 Ant0	FR1 n71 Ant1	Front	0.385	0.177	0.151	0.197	0.075	0.71	0.76	0.64
		Back	0.622	0.320	0.151	0.197	0.107	1.09	1.14	1.05
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11



WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 7 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front	0.385	0.274	0.151	0.197	0.075	0.81	0.86	0.73
		Back	0.622	0.439	0.151	0.197	0.107	1.21	1.26	1.17
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 7 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.385	0.342	0.151	0.197	0.075	0.88	0.92	0.80
		Back	0.622	0.477	0.151	0.197	0.107	1.25	1.30	1.21
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 12 Ant1	FR1 n25 Ant0	Front	0.261	0.329	0.151	0.197	0.075	0.74	0.79	0.67
		Back	0.563	0.715	0.151	0.197	0.107	1.43	1.48	1.39
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 12 Ant1	FR1 n30 Ant0	Front	0.261	0.328	0.151	0.197	0.075	0.74	0.79	0.66
		Back	0.563	0.597	0.151	0.197	0.107	1.31	1.36	1.27
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 12 Ant1	FR1 n41-HPUE Ant0	Front	0.261	0.480	0.151	0.197	0.075	0.89	0.94	0.82
		Back	0.563	0.639	0.151	0.197	0.107	1.35	1.40	1.31
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 12 Ant1	FR1 n66 Ant0	Front	0.261	0.297	0.151	0.197	0.075	0.71	0.76	0.63
		Back	0.563	0.761	0.151	0.197	0.107	1.48	1.52	1.43
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 12 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front	0.441	0.274	0.151	0.197	0.075	0.87	0.91	0.79
		Back	0.626	0.439	0.151	0.197	0.107	1.22	1.26	1.17
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 12 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.441	0.342	0.151	0.197	0.075	0.93	0.98	0.86
		Back	0.626	0.477	0.151	0.197	0.107	1.25	1.30	1.21
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 13 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front	0.464	0.274	0.151	0.197	0.075	0.89	0.94	0.81
		Back	0.658	0.439	0.151	0.197	0.107	1.25	1.29	1.20
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 13 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.464	0.342	0.151	0.197	0.075	0.96	1.00	0.88
		Back	0.658	0.477	0.151	0.197	0.107	1.29	1.33	1.24
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 13 Ant1	FR1 n25 Ant0	Front	0.420	0.329	0.151	0.197	0.075	0.90	0.95	0.82
		Back	0.585	0.715	0.151	0.197	0.107	1.45	1.50	1.41
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 13 Ant1	FR1 n66 Ant0	Front	0.420	0.297	0.151	0.197	0.075	0.87	0.91	0.79
		Back	0.585	0.761	0.151	0.197	0.107	1.50	1.54	1.45
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 14	FR1 n25 Ant0	Front	0.408	0.329	0.151	0.197	0.075	0.89	0.93	0.81
		Back	0.609	0.715	0.151	0.197	0.107	1.48	1.52	1.43



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Ant1		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 14 Ant1	FR1 n30 Ant0	Front	0.408	0.328	0.151	0.197	0.075	0.89	0.93	0.81
		Back	0.609	0.597	0.151	0.197	0.107	1.36	1.40	1.31
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 14 Ant1	FR1 n66 Ant0	Front	0.408	0.297	0.151	0.197	0.075	0.86	0.90	0.78
		Back	0.609	0.761	0.151	0.197	0.107	1.52	1.57	1.48
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 14 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front	0.439	0.274	0.151	0.197	0.075	0.86	0.91	0.79
		Back	0.637	0.439	0.151	0.197	0.107	1.23	1.27	1.18
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 14 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.439	0.342	0.151	0.197	0.075	0.93	0.98	0.86
		Back	0.637	0.477	0.151	0.197	0.107	1.27	1.31	1.22
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	FR1 n41-HPUE Ant1	Front	0.360	0.321	0.151	0.197	0.075	0.83	0.88	0.76
		Back	0.709	0.508	0.151	0.197	0.107	1.37	1.41	1.32
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 25 Ant0	FR1 n66 Ant1	Front	0.360	0.322	0.151	0.197	0.075	0.83	0.88	0.76
		Back	0.709	0.520	0.151	0.197	0.107	1.38	1.43	1.34
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 26 Ant1	FR1 n41-HPUE Ant0	Front	0.349	0.480	0.151	0.197	0.075	0.98	1.03	0.90
		Back	0.565	0.639	0.151	0.197	0.107	1.36	1.40	1.31
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 30 Ant0	FR1 n25 Ant1	Front	0.365	0.240	0.151	0.197	0.075	0.76	0.80	0.68
		Back	0.596	0.382	0.151	0.197	0.107	1.13	1.18	1.09
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 30 Ant0	FR1 n5 Ant1	Front	0.365	0.365	0.151	0.197	0.075	0.88	0.93	0.81
		Back	0.596	0.550	0.151	0.197	0.107	1.30	1.34	1.25
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 30 Ant0	FR1 n66 Ant1	Front	0.365	0.322	0.151	0.197	0.075	0.84	0.88	0.76
		Back	0.596	0.520	0.151	0.197	0.107	1.27	1.31	1.22
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 30 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front	0.365	0.274	0.151	0.197	0.075	0.79	0.84	0.71
		Back	0.596	0.439	0.151	0.197	0.107	1.19	1.23	1.14
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 30 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.365	0.342	0.151	0.197	0.075	0.86	0.90	0.78
		Back	0.596	0.477	0.151	0.197	0.107	1.22	1.27	1.18
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11



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LTE Band 48 Ant2	FR1 n25 Ant0	Front	0.270	0.329	0.151	0.197	0.075	0.75	0.80	0.67
		Back	0.513	0.715	0.151	0.197	0.107	1.38	1.43	1.34
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	FR1 n25 Ant1	Front	0.292	0.240	0.151	0.197	0.075	0.68	0.73	0.61
		Back	0.736	0.382	0.151	0.197	0.107	1.27	1.32	1.23
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	FR1 n5 Ant1	Front	0.292	0.365	0.151	0.197	0.075	0.81	0.85	0.73
		Back	0.736	0.550	0.151	0.197	0.107	1.44	1.48	1.39
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	FR1 n12 Ant1	Front	0.292	0.252	0.151	0.197	0.075	0.70	0.74	0.62
		Back	0.736	0.395	0.151	0.197	0.107	1.28	1.33	1.24
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	FR1 n25 Ant1	Front	0.292	0.240	0.151	0.197	0.075	0.68	0.73	0.61
		Back	0.736	0.382	0.151	0.197	0.107	1.27	1.32	1.23
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	FR1 n30 Ant1	Front	0.292	0.373	0.151	0.197	0.075	0.82	0.86	0.74
		Back	0.736	0.560	0.151	0.197	0.107	1.45	1.49	1.40
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	FR1 n41-HPUE Ant1	Front	0.292	0.321	0.151	0.197	0.075	0.76	0.81	0.69
		Back	0.736	0.508	0.151	0.197	0.107	1.40	1.44	1.35
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	FR1 n71 Ant1	Front	0.292	0.177	0.151	0.197	0.075	0.62	0.67	0.54
		Back	0.736	0.320	0.151	0.197	0.107	1.21	1.25	1.16
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	FR1 n77 Part 27O(HPUE) Ant2	Front	0.292	0.274	0.151	0.197	0.075	0.72	0.76	0.64
		Back	0.736	0.439	0.151	0.197	0.107	1.33	1.37	1.28
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front	0.292	0.342	0.151	0.197	0.075	0.79	0.83	0.71
		Back	0.736	0.477	0.151	0.197	0.107	1.36	1.41	1.32
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 71 Ant1	FR1 n25 Ant0	Front	0.189	0.329	0.151	0.197	0.075	0.67	0.72	0.59
		Back	0.428	0.715	0.151	0.197	0.107	1.29	1.34	1.25
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 71 Ant1	FR1 n41-HPUE Ant0	Front	0.189	0.480	0.151	0.197	0.075	0.82	0.87	0.74
		Back	0.428	0.639	0.151	0.197	0.107	1.22	1.26	1.17
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 71 Ant1	FR1 n66 Ant0	Front	0.189	0.297	0.151	0.197	0.075	0.64	0.68	0.56
		Back	0.428	0.761	0.151	0.197	0.107	1.34	1.39	1.30
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11



<Inter UL CA Mode>

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 66 Ant0	LTE Band 48 Ant2	Front	0.292	0.270	0.151	0.197	0.075	0.71	0.76	0.64
		Back	0.736	0.513	0.151	0.197	0.107	1.40	1.45	1.36
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	LTE Band 66 Ant1	Front	0.360	0.356	0.151	0.197	0.075	0.87	0.91	0.79
		Back	0.709	0.566	0.151	0.197	0.107	1.43	1.47	1.38
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	LTE Band 26 Ant1	Front	0.360	0.349	0.151	0.197	0.075	0.86	0.91	0.78
		Back	0.709	0.565	0.151	0.197	0.107	1.43	1.47	1.38
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	LTE Band 12 Ant1	Front	0.360	0.261	0.151	0.197	0.075	0.77	0.82	0.70
		Back	0.709	0.563	0.151	0.197	0.107	1.42	1.47	1.38
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	LTE Band 13 Ant1	Front	0.360	0.420	0.151	0.197	0.075	0.93	0.98	0.86
		Back	0.709	0.585	0.151	0.197	0.107	1.45	1.49	1.40
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	LTE Band 14 Ant1	Front	0.360	0.408	0.151	0.197	0.075	0.92	0.97	0.84
		Back	0.709	0.609	0.151	0.197	0.107	1.47	1.52	1.43
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	LTE Band 48 Ant2	Front	0.360	0.270	0.151	0.197	0.075	0.78	0.83	0.71
		Back	0.709	0.513	0.151	0.197	0.107	1.37	1.42	1.33
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 25 Ant0	LTE Band 66 Ant1	Front	0.360	0.356	0.151	0.197	0.075	0.87	0.91	0.79
		Back	0.709	0.566	0.151	0.197	0.107	1.43	1.47	1.38
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	LTE Band 26 Ant1	Front	0.292	0.349	0.151	0.197	0.075	0.79	0.84	0.72
		Back	0.736	0.565	0.151	0.197	0.107	1.45	1.50	1.41
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	LTE Band 12 Ant1	Front	0.292	0.261	0.151	0.197	0.075	0.70	0.75	0.63
		Back	0.736	0.563	0.151	0.197	0.107	1.45	1.50	1.41
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	LTE Band 13 Ant1	Front	0.292	0.420	0.151	0.197	0.075	0.86	0.91	0.79
		Back	0.736	0.585	0.151	0.197	0.107	1.47	1.52	1.43
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 48 Ant2	LTE Band 5 Ant0	Front	0.270	0.386	0.151	0.197	0.075	0.81	0.85	0.73
		Back	0.513	0.627	0.151	0.197	0.107	1.29	1.34	1.25
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 30 Ant0	LTE Band 26 Ant1	Front	0.365	0.349	0.151	0.197	0.075	0.87	0.91	0.79
		Back	0.596	0.565	0.151	0.197	0.107	1.31	1.36	1.27
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08



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		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	LTE Band 26 Ant1	Front	0.292	0.349	0.151	0.197	0.075	0.79	0.84	0.72
		Back	0.736	0.565	0.151	0.197	0.107	1.45	1.50	1.41
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	LTE Band 7 Ant1	Front	0.292	0.360	0.151	0.197	0.075	0.80	0.85	0.73
		Back	0.736	0.524	0.151	0.197	0.107	1.41	1.46	1.37
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 30 Ant0	LTE Band 12 Ant1	Front	0.365	0.261	0.151	0.197	0.075	0.78	0.82	0.70
		Back	0.596	0.563	0.151	0.197	0.107	1.31	1.36	1.27
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 66 Ant0	LTE Band 12 Ant1	Front	0.292	0.261	0.151	0.197	0.075	0.70	0.75	0.63
		Back	0.736	0.563	0.151	0.197	0.107	1.45	1.50	1.41
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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)
LTE Band 13 Ant0	LTE Band 48 Ant2	Front	0.464	0.270	0.151	0.197	0.075	0.89	0.93	0.81
		Back	0.658	0.513	0.151	0.197	0.107	1.32	1.37	1.28
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 13 Ant1	LTE Band 66 Ant0	Front	0.420	0.292	0.151	0.197	0.075	0.86	0.91	0.79
		Back	0.585	0.736	0.151	0.197	0.107	1.47	1.52	1.43
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 14 Ant1	LTE Band 30 Ant0	Front	0.408	0.365	0.151	0.197	0.075	0.92	0.97	0.85
		Back	0.609	0.596	0.151	0.197	0.107	1.36	1.40	1.31
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11
LTE Band 14 Ant1	LTE Band 66 Ant0	Front	0.408	0.292	0.151	0.197	0.075	0.85	0.90	0.78
		Back	0.609	0.736	0.151	0.197	0.107	1.50	1.54	1.45
		Front with Headset			0.151	0.197	0.075	0.15	0.20	0.08
		Back with Headset			0.151	0.197	0.107	0.15	0.20	0.11



16.4 Product specific 10g SAR Exposure Conditions

Remark:

1. For Bluetooth Productspecific 10g stand-alone SAR isnot required for a transmitter or antenna, due to 1g hotspot SAR is < 1.2W/kg.

WWAN Band	Exposure Position	1	2	3	1+2 Summed 10g SAR (W/kg)	1+3 Summed 10g SAR (W/kg)
		WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8		
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
GSM850 Ant 0	Front		0.477	0.494	0.48	0.49
	Back	2.377	0.477	0.494	2.85	2.87
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	2.960	0.477	0.494	3.44	3.45
GSM1900 Ant 0	Front		0.477	0.494	0.48	0.49
	Back	3.430	0.477	0.494	3.91	3.92
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	3.002	0.477	0.494	3.48	3.50
WCDMA II Ant 0	Front		0.477	0.494	0.48	0.49
	Back	3.369	0.477	0.494	3.85	3.86
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	2.757	0.477	0.494	3.23	3.25
WCDMA IV Ant 0	Front		0.477	0.494	0.48	0.49
	Back	3.451	0.477	0.494	3.93	3.95
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	3.273	0.477	0.494	3.75	3.77
WCDMA V Ant 0	Front		0.477	0.494	0.48	0.49
	Back	1.918	0.477	0.494	2.40	2.41
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	2.872	0.477	0.494	3.35	3.37
LTE Band 7 Ant 0	Front		0.477	0.494	0.48	0.49
	Back	3.368	0.477	0.494	3.85	3.86
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	2.142	0.477	0.494	2.62	2.64
LTE Band 13 Ant 0	Front		0.477	0.494	0.48	0.49
	Back		0.477	0.494	0.48	0.49
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	2.116	0.477	0.494	2.59	2.61
LTE Band 14 Ant 0	Front		0.477	0.494	0.48	0.49
	Back		0.477	0.494	0.48	0.49
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	2.040	0.477	0.494	2.52	2.53



LTE Band 25 Ant 0	Front		0.477	0.494	0.48	0.49
	Back	3.454	0.477	0.494	3.93	3.95
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	2.980	0.477	0.494	3.46	3.47
LTE Band 25 Ant 1	Front		0.477	0.494	0.48	0.49
	Back	1.610	0.477	0.494	2.09	2.10
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side	2.706	0.477	0.494	3.18	3.20
	Bottom side		0.477	0.494	0.48	0.49
LTE Band 26 Ant 0	Front		0.477	0.494	0.48	0.49
	Back	1.756	0.477	0.494	2.23	2.25
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	2.608	0.477	0.494	3.09	3.10
LTE Band 26 Ant 1	Front		0.477	0.494	0.48	0.49
	Back	1.320	0.477	0.494	1.80	1.81
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side	1.671	0.477	0.494	2.15	2.17
	Bottom side		0.477	0.494	0.48	0.49
LTE Band 30 Ant 0	Front		0.477	0.494	0.48	0.49
	Back	1.953	0.477	0.494	2.43	2.45
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	3.408	0.477	0.494	3.89	3.90
LTE Band 41 Ant 0	Front		0.477	0.494	0.48	0.49
	Back	3.494	0.477	0.494	3.97	3.99
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side		0.477	0.494	0.48	0.49
LTE Band 48 Ant 2	Front	0.587	0.477	0.494	1.06	1.08
	Back	1.550	0.477	0.494	2.03	2.04
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side	2.573	0.477	0.494	3.05	3.07
	Bottom side		0.477	0.494	0.48	0.49
LTE Band 66 Ant 0	Front		0.477	0.494	0.48	0.49
	Back	3.423	0.477	0.494	3.90	3.92
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	3.261	0.477	0.494	3.74	3.76
LTE Band 66 Ant 1	Front		0.477	0.494	0.48	0.49
	Back	1.690	0.477	0.494	2.17	2.18
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side	2.622	0.477	0.494	3.10	3.12
	Bottom side		0.477	0.494	0.48	0.49



WWAN Band	Exposure Position	1	2	3	1+2 Summed 10g SAR (W/kg)	1+3 Summed 10g SAR (W/kg)
		FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8		
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
FR1 n25 Ant 0	Front		0.477	0.494	0.48	0.49
	Back	3.315	0.477	0.494	3.79	3.81
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	2.713	0.477	0.494	3.19	3.21
FR1 n25 Ant 1	Front		0.477	0.494	0.48	0.49
	Back		0.477	0.494	0.48	0.49
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side		0.477	0.494	0.48	0.49
FR1 n66 Ant 0	Front		0.477	0.494	0.48	0.49
	Back	3.468	0.477	0.494	3.95	3.96
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	3.359	0.477	0.494	3.84	3.85
FR1 n70 Ant 0	Front		0.477	0.494	0.48	0.49
	Back	3.202	0.477	0.494	3.68	3.70
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	2.722	0.477	0.494	3.20	3.22
FR1 n41-HPUE Ant 0	Front		0.477	0.494	0.48	0.49
	Back	3.261	0.477	0.494	3.74	3.76
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side		0.477	0.494	0.48	0.49
	Bottom side	1.992	0.477	0.494	2.47	2.49
FR1 n77 Part 27Q(HPUE) Ant 2	Front	3.183	0.477	0.494	3.66	3.68
	Back	1.623	0.477	0.494	2.10	2.12
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side	3.452	0.477	0.494	3.93	3.95
	Bottom side		0.477	0.494	0.48	0.49
FR1 n77 Part 27Q(HPUE) Ant 2	Front	2.959	0.477	0.494	3.44	3.45
	Back	0.926	0.477	0.494	1.40	1.42
	Left side		0.477	0.494	0.48	0.49
	Right side		0.477	0.494	0.48	0.49
	Top side	1.233	0.477	0.494	1.71	1.73
	Bottom side		0.477	0.494	0.48	0.49



<5G NR EN-DC Mode>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	1+2+3	1+2+4
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
LTE Band 25 Ant0	FR1 n25 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.947	0.698	0.477	0.494	3.12	3.14
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.032	0.477	0.494	1.51	1.53
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	FR1 n5 Ant1	Front			0.477	0.494	0.48	0.49
		Back	3.430		0.477	0.494	3.91	3.92
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	FR1 n12 Ant1	Front			0.477	0.494	0.48	0.49
		Back	3.369		0.477	0.494	3.85	3.86
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	FR1 n30 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.947	1.158	0.477	0.494	3.58	3.60
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.323	0.477	0.494	1.80	1.82
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	FR1 n41-HPUE Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.947	1.276	0.477	0.494	3.70	3.72
		Left side		0.789	0.477	0.494	1.27	1.28
		Right side			0.477	0.494	0.48	0.49
		Top side		1.209	0.477	0.494	1.69	1.70
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	FR1 n66 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.947	1.142	0.477	0.494	3.57	3.58
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.212	0.477	0.494	1.69	1.71
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	FR1 n71 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.947		0.477	0.494	2.42	2.44
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	FR1 n77 Part 27O(HPUE) Ant2	Front		3.055	0.477	0.494	3.53	3.55
		Back	1.947	1.534	0.477	0.494	3.96	3.98
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.451	0.477	0.494	3.93	3.95
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	FR1 n77 Part 27Q(HPUE)	Front		2.992	0.477	0.494	3.47	3.49
		Back	1.947	1.518	0.477	0.494	3.94	3.96



	Ant2	Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.441	0.477	0.494	3.92	3.94
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 26 Ant1	FR1 n25 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.976	0.477	0.494	2.45	2.47
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side	1.617		0.477	0.494	2.09	2.11
		Bottom side		1.694	0.477	0.494	2.17	2.19
LTE Band 26 Ant1	FR1 n30 Ant0	Front			0.477	0.494	0.48	0.49
		Back		0.927	0.477	0.494	1.40	1.42
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side	1.617		0.477	0.494	2.09	2.11
		Bottom side		1.594	0.477	0.494	2.07	2.09
LTE Band 26 Ant1	FR1 n66 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.958	0.477	0.494	2.44	2.45
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side	1.617		0.477	0.494	2.09	2.11
		Bottom side		1.865	0.477	0.494	2.34	2.36
LTE Band 5 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front		3.055	0.477	0.494	3.53	3.55
		Back	1.047	1.534	0.477	0.494	3.06	3.08
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.451	0.477	0.494	3.93	3.95
		Bottom side	1.557		0.477	0.494	2.03	2.05
LTE Band 5 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front		2.992	0.477	0.494	3.47	3.49
		Back	1.047	1.597	0.477	0.494	3.12	3.14
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.441	0.477	0.494	3.92	3.94
		Bottom side	1.557		0.477	0.494	2.03	2.05
LTE Band 7 Ant0	FR1 n25 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.638	0.698	0.477	0.494	2.81	2.83
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.032	0.477	0.494	1.51	1.53
		Bottom side	1.082		0.477	0.494	1.56	1.58
LTE Band 7 Ant0	FR1 n5 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.638		0.477	0.494	2.12	2.13
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.082		0.477	0.494	1.56	1.58
LTE Band 7 Ant0	FR1 n66 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.638	1.142	0.477	0.494	3.26	3.27
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.272	0.477	0.494	1.75	1.77
		Bottom side	1.082		0.477	0.494	1.56	1.58
LTE Band 7 Ant0	FR1 n71 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.638		0.477	0.494	2.12	2.13
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49



		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.082		0.477	0.494	1.56	1.58

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	1+2+3	1+2+4
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
LTE Band 7 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front		3.055	0.477	0.494	3.53	3.55
		Back	1.638	1.534	0.477	0.494	3.65	3.67
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.451	0.477	0.494	3.93	3.95
		Bottom side	1.082		0.477	0.494	1.56	1.58
LTE Band 7 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front		2.992	0.477	0.494	3.47	3.49
		Back	1.638	1.597	0.477	0.494	3.71	3.73
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.441	0.477	0.494	3.92	3.94
		Bottom side	1.082		0.477	0.494	1.56	1.58
LTE Band 12 Ant1	FR1 n25 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.976	0.477	0.494	2.45	2.47
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side		1.694	0.477	0.494	2.17	2.19
LTE Band 12 Ant1	FR1 n30 Ant0	Front			0.477	0.494	0.48	0.49
		Back		0.927	0.477	0.494	1.40	1.42
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side		1.594	0.477	0.494	2.07	2.09
LTE Band 12 Ant1	FR1 n41-HPUE Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.484	0.477	0.494	1.96	1.98
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		0.919	0.477	0.494	1.40	1.41
		Bottom side			0.477	0.494	0.48	0.49
LTE Band 12 Ant1	FR1 n66 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.958	0.477	0.494	2.44	2.45
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side		1.865	0.477	0.494	2.34	2.36
LTE Band 12 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front		3.055	0.477	0.494	3.53	3.55
		Back		1.534	0.477	0.494	2.01	2.03
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.451	0.477	0.494	3.93	3.95
		Bottom side			0.477	0.494	0.48	0.49
LTE Band 12 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front		2.992	0.477	0.494	3.47	3.49
		Back		1.518	0.477	0.494	2.00	2.01
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.441	0.477	0.494	3.92	3.94
		Bottom side			0.477	0.494	0.48	0.49
LTE Band 13	FR1 n77 Part	Front		3.055	0.477	0.494	3.53	3.55



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Ant0	270(HPUE) Ant2	Back		1.534	0.477	0.494	2.01	2.03
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.451	0.477	0.494	3.93	3.95
		Bottom side	1.755		0.477	0.494	2.23	2.25
LTE Band 13 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front		2.992	0.477	0.494	3.47	3.49
		Back		1.597	0.477	0.494	2.07	2.09
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.441	0.477	0.494	3.92	3.94
		Bottom side	1.755		0.477	0.494	2.23	2.25
LTE Band 13 Ant1	FR1 n25 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.976	0.477	0.494	2.45	2.47
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side		1.694	0.477	0.494	2.17	2.19
LTE Band 13 Ant1	FR1 n66 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.958	0.477	0.494	2.44	2.45
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side		1.865	0.477	0.494	2.34	2.36
LTE Band 14 Ant1	FR1 n25 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.976	0.477	0.494	2.45	2.47
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side	1.258		0.477	0.494	1.74	1.75
		Bottom side		1.694	0.477	0.494	2.17	2.19
LTE Band 14 Ant1	FR1 n30 Ant0	Front			0.477	0.494	0.48	0.49
		Back		0.927	0.477	0.494	1.40	1.42
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side	1.258		0.477	0.494	1.74	1.75
		Bottom side		1.594	0.477	0.494	2.07	2.09
LTE Band 14 Ant1	FR1 n66 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.958	0.477	0.494	2.44	2.45
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side	1.258		0.477	0.494	1.74	1.75
		Bottom side		1.865	0.477	0.494	2.34	2.36
LTE Band 14 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front		3.055	0.477	0.494	3.53	3.55
		Back		1.534	0.477	0.494	2.01	2.03
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.451	0.477	0.494	3.93	3.95
		Bottom side	1.702		0.477	0.494	2.18	2.20
LTE Band 14 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front		2.992	0.477	0.494	3.47	3.49
		Back		1.597	0.477	0.494	2.07	2.09
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.441	0.477	0.494	3.92	3.94
		Bottom side	1.702		0.477	0.494	2.18	2.20
LTE Band 25 Ant0	FR1 n41-HPUE Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.947	1.276	0.477	0.494	3.70	3.72
		Left side		0.789	0.477	0.494	1.27	1.28



		Right side			0.477	0.494	0.48	0.49
		Top side		1.209	0.477	0.494	1.69	1.70
		Bottom side	1.746		0.477	0.494	2.22	2.24

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	1+2+3	1+2+4
			WWAN	FR1	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
LTE Band 25 Ant0	FR1 n66 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.947	1.142	0.477	0.494	3.57	3.58
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.212	0.477	0.494	1.69	1.71
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 26 Ant1	FR1 n41-HPUE Ant0	Front			0.477	0.494	0.48	0.49
		Back	1.947	1.484	0.477	0.494	3.91	3.93
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side	1.617	0.919	0.477	0.494	3.01	3.03
		Bottom side			0.477	0.494	0.48	0.49
LTE Band 30 Ant0	FR1 n25 Ant1	Front			0.477	0.494	0.48	0.49
		Back		0.698	0.477	0.494	1.18	1.19
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.032	0.477	0.494	1.51	1.53
		Bottom side	1.652		0.477	0.494	2.13	2.15
LTE Band 30 Ant0	FR1 n25 Ant1	Front			0.477	0.494	0.48	0.49
		Back		0.698	0.477	0.494	1.18	1.19
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.032	0.477	0.494	1.51	1.53
		Bottom side	1.652		0.477	0.494	2.13	2.15
LTE Band 30 Ant0	FR1 n66 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.010	1.142	0.477	0.494	2.63	2.65
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.272	0.477	0.494	1.75	1.77
		Bottom side	1.652		0.477	0.494	2.13	2.15
LTE Band 30 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front		3.055	0.477	0.494	3.53	3.55
		Back	1.010	1.534	0.477	0.494	3.02	3.04
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.451	0.477	0.494	3.93	3.95
		Bottom side	1.652		0.477	0.494	2.13	2.15
LTE Band 30 Ant0	FR1 n77 Part 270(HPUE) Ant2	Front at 0mm		2.992	0.477	0.494	3.47	3.49
		Back at 0mm	1.010	1.597	0.477	0.494	3.08	3.10
		Left side at 0mm			0.477	0.494	0.48	0.49
		Right side at 0mm			0.477	0.494	0.48	0.49
		Top side at 0mm		3.441	0.477	0.494	3.92	3.94
		Bottom side at 0mm	1.652		0.477	0.494	2.13	2.15
LTE Band 48 Ant2	FR1 n25 Ant0	Front	0.587		0.477	0.494	1.06	1.08
		Back	0.692	1.976	0.477	0.494	3.15	3.16
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side	1.303		0.477	0.494	1.78	1.80
		Bottom side		1.694	0.477	0.494	2.17	2.19



LTE Band 66 Ant0	FR1 n25 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872	0.698	0.477	0.494	3.05	3.06
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.032	0.477	0.494	1.51	1.53
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 66 Ant0	FR1 n5 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872		0.477	0.494	2.35	2.37
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 66 Ant0	FR1 n12 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872		0.477	0.494	2.35	2.37
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 66 Ant0	FR1 n25 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872	0.698	0.477	0.494	3.05	3.06
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.032	0.477	0.494	1.51	1.53
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 66 Ant0	FR1 n30 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872	1.158	0.477	0.494	3.51	3.52
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.323	0.477	0.494	1.80	1.82
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 66 Ant0	FR1 n41-HPUE Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872	1.276	0.477	0.494	3.63	3.64
		Left side		0.789	0.477	0.494	1.27	1.28
		Right side			0.477	0.494	0.48	0.49
		Top side		1.209	0.477	0.494	1.69	1.70
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 66 Ant0	FR1 n71 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872		0.477	0.494	2.35	2.37
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 66 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front		3.055	0.477	0.494	3.53	3.55
		Back	1.872	1.534	0.477	0.494	3.88	3.90
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.451	0.477	0.494	3.93	3.95
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 66 Ant0	FR1 n77 Part 27Q(HPUE) Ant2	Front		2.992	0.477	0.494	3.47	3.49
		Back	1.872	1.597	0.477	0.494	3.95	3.96
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		3.441	0.477	0.494	3.92	3.94
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 71 Ant1	FR1 n25 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.976	0.477	0.494	2.45	2.47



		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side		1.694	0.477	0.494	2.17	2.19
LTE Band 71 Ant1	FR1 n41-HPUE Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.484	0.477	0.494	1.96	1.98
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		0.919	0.477	0.494	1.40	1.41
LTE Band 71 Ant1	FR1 n66 Ant0	Bottom side			0.477	0.494	0.48	0.49
		Front			0.477	0.494	0.48	0.49
		Back		1.958	0.477	0.494	2.44	2.45
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side		1.865	0.477	0.494	2.34	2.36

<Inter UL CA Mode>

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	1+2+3	1+2+4
			WWAN	WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
LTE Band 66 Ant0	LTE Band 48 Ant2	Front		0.587	0.477	0.494	1.06	1.08
		Back	1.872	0.692	0.477	0.494	3.04	3.06
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.303	0.477	0.494	1.78	1.80
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 25 Ant0	LTE Band 66 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.947	1.191	0.477	0.494	3.62	3.63
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.502	0.477	0.494	1.98	2.00
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	LTE Band 26 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.947		0.477	0.494	2.42	2.44
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.617	0.477	0.494	2.09	2.11
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	LTE Band 12 Ant1	Front			0.477	0.494	0.48	0.49
		Back			0.477	0.494	0.48	0.49
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	LTE Band 13 Ant1	Front			0.477	0.494	0.48	0.49
		Back			0.477	0.494	0.48	0.49
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	LTE Band 14 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.947		0.477	0.494	2.42	2.44
		Left side			0.477	0.494	0.48	0.49



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		Right side			0.477	0.494	0.48	0.49
		Top side		1.258	0.477	0.494	1.74	1.75
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 25 Ant0	LTE Band 48 Ant2	Front		0.587	0.477	0.494	1.06	1.08
		Back	1.947	0.692	0.477	0.494	3.12	3.13
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.303	0.477	0.494	1.78	1.80
		Bottom side	1.746		0.477	0.494	2.22	2.24
		Front			0.477	0.494	0.48	0.49
LTE Band 25 Ant0	LTE Band 66 Ant1	Back	1.947	1.191	0.477	0.494	3.62	3.63
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.502	0.477	0.494	1.98	2.00
		Bottom side	1.746		0.477	0.494	2.22	2.24
LTE Band 66 Ant0	LTE Band 26 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872		0.477	0.494	2.35	2.37
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.617	0.477	0.494	2.09	2.11
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 66 Ant0	LTE Band 12 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872		0.477	0.494	2.35	2.37
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 66 Ant0	LTE Band 13 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872		0.477	0.494	2.35	2.37
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 48 Ant2	LTE Band 5 Ant0	Front	0.587		0.477	0.494	1.06	1.08
		Back	0.692	1.047	0.477	0.494	2.22	2.23
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side	1.303		0.477	0.494	1.78	1.80
		Bottom side		1.557	0.477	0.494	2.03	2.05
LTE Band 30 Ant0	LTE Band 26 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.010		0.477	0.494	1.49	1.50
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.617	0.477	0.494	2.09	2.11
		Bottom side	1.652		0.477	0.494	2.13	2.15
LTE Band 66 Ant0	LTE Band 26 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872		0.477	0.494	2.35	2.37
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.617	0.477	0.494	2.09	2.11
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 66 Ant0	LTE Band 7 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872	1.432	0.477	0.494	3.78	3.80
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.308	0.477	0.494	1.79	1.80



LTE Band 30 Ant0	LTE Band 12 Ant1	Bottom side	1.924		0.477	0.494	2.40	2.42
		Front			0.477	0.494	0.48	0.49
		Back	1.010		0.477	0.494	1.49	1.50
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.652		0.477	0.494	2.13	2.15
LTE Band 66 Ant0	LTE Band 12 Ant1	Front			0.477	0.494	0.48	0.49
		Back	1.872		0.477	0.494	2.35	2.37
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side	1.924		0.477	0.494	2.40	2.42
LTE Band 13 Ant0	LTE Band 48 Ant2	Front		0.739	0.477	0.494	1.22	1.23
		Back		0.692	0.477	0.494	1.17	1.19
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side		1.303	0.477	0.494	1.78	1.80
		Bottom side	1.755		0.477	0.494	2.23	2.25
LTE Band 13 Ant1	LTE Band 66 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.872	0.477	0.494	2.35	2.37
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side			0.477	0.494	0.48	0.49
		Bottom side		1.924	0.477	0.494	2.40	2.42
LTE Band 14 Ant1	LTE Band 30 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.953	0.477	0.494	2.43	2.45
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side	1.258		0.477	0.494	1.74	1.75
		Bottom side		3.408	0.477	0.494	3.89	3.90
LTE Band 14 Ant1	LTE Band 66 Ant0	Front			0.477	0.494	0.48	0.49
		Back		1.872	0.477	0.494	2.35	2.37
		Left side			0.477	0.494	0.48	0.49
		Right side			0.477	0.494	0.48	0.49
		Top side	1.258		0.477	0.494	1.74	1.75
		Bottom side		1.924	0.477	0.494	2.40	2.42

Test Engineer : Bruce Li, Martin Li, Ricky Gu



17. 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 $\leq 30\%$, 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.



18. 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.

System Check_Head_750MHz

DUT: D750V3 - SN:1087

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750 Medium parameters used: $f = 750$ MHz; $\sigma = 0.914$ S/m; $\epsilon_r = 41.772$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3279; ConvF(6.48, 6.48, 6.48); Calibrated: 2021.8.24
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1356; Calibrated: 2021.6.1
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1842
- 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) = 0.465 W/kg

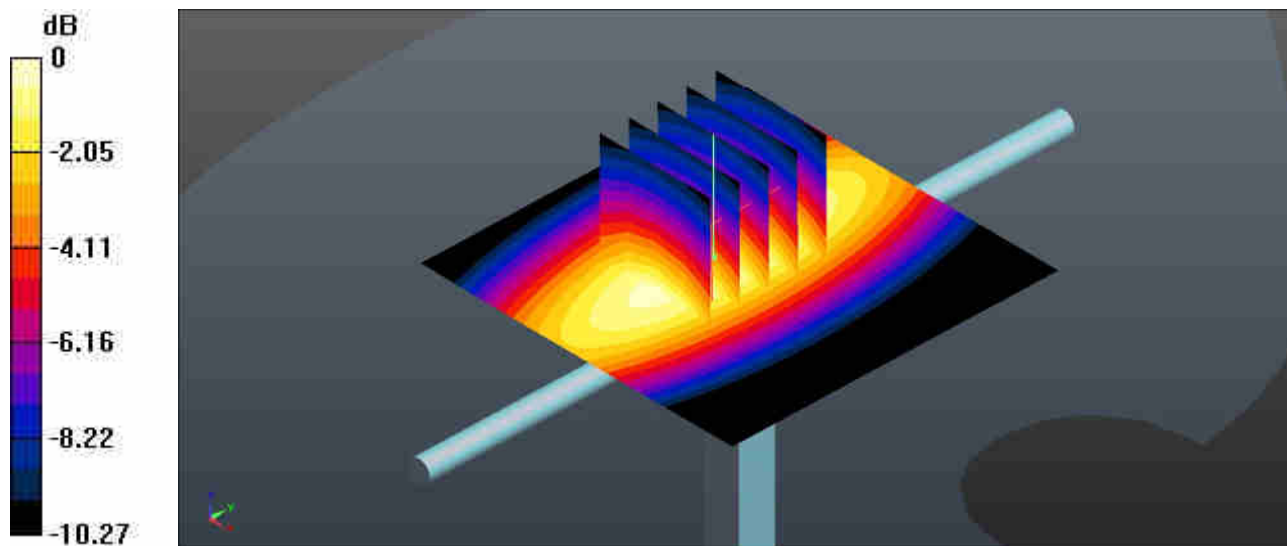
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.31 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.602 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.267 W/kg

Maximum value of SAR (measured) = 0.475 W/kg



0 dB = 0.475 W/kg = -3.23 dBW/kg

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; $\sigma = 0.944$ S/m; $\epsilon_r = 41.489$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3279; ConvF(6.23, 6.23, 6.23); Calibrated: 2021.8.24
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1356; Calibrated: 2021.6.1
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1842
- 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) = 0.591 W/kg

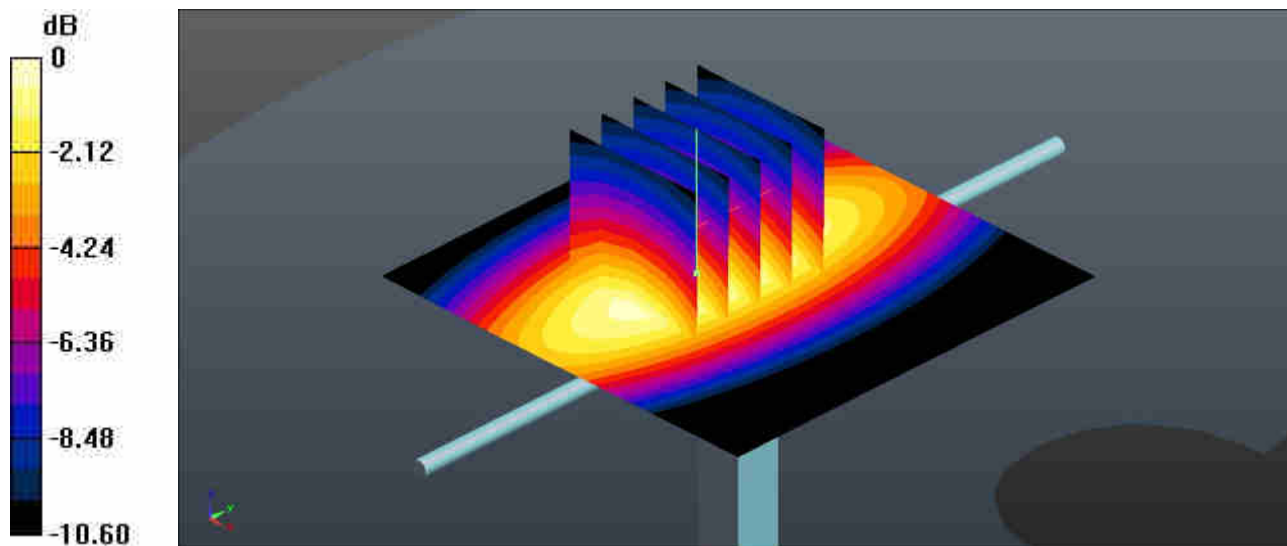
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.73 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.753 W/kg

SAR(1 g) = 0.508 W/kg; SAR(10 g) = 0.322 W/kg

Maximum value of SAR (measured) = 0.595 W/kg



0 dB = 0.595 W/kg = -2.25 dBW/kg

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; $\sigma = 1.409$ S/m; $\epsilon_r = 40.669$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3279; ConvF(5.52, 5.52, 5.52); Calibrated: 2021.8.24
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1356; Calibrated: 2021.6.1
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1842
- 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) = 2.41 W/kg

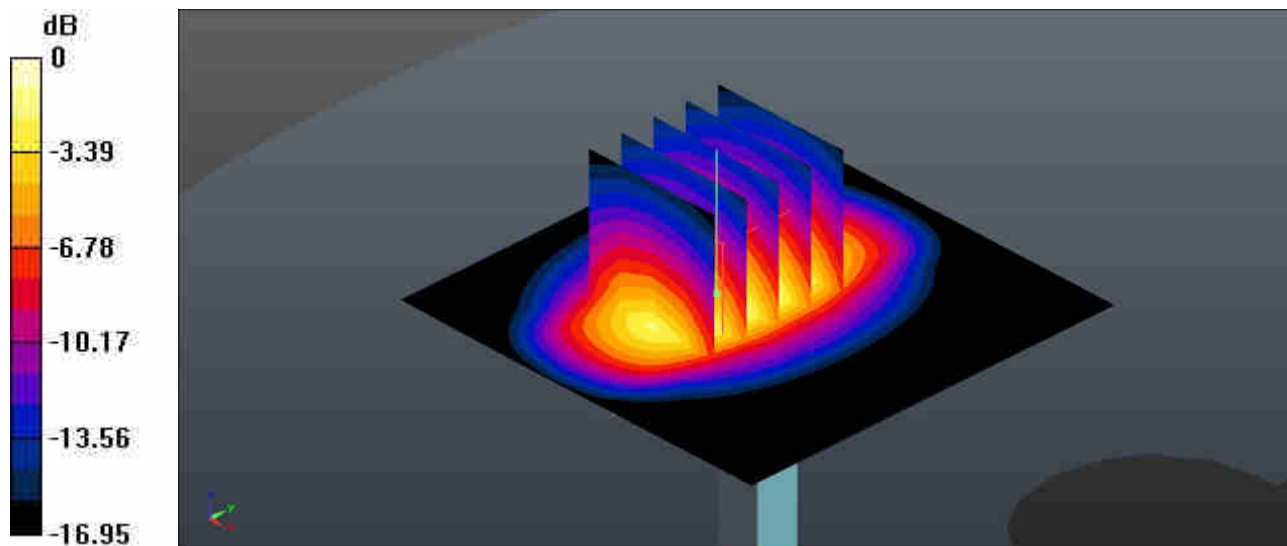
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.79 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 1.87 W/kg; SAR(10 g) = 0.993 W/kg

Maximum value of SAR (measured) = 2.36 W/kg



0 dB = 2.36 W/kg = 3.73 dBW/kg

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; $\sigma = 1.424$ S/m; $\epsilon_r = 39.376$; $\rho = 1000$ kg/m³

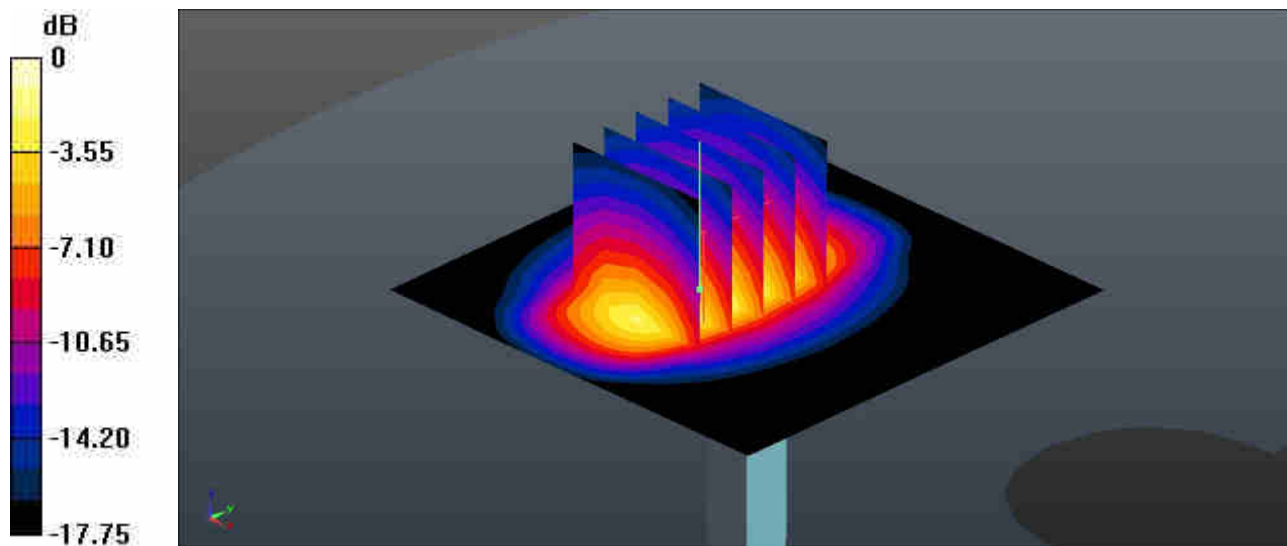
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3279; ConvF(5.28, 5.28, 5.28); Calibrated: 2021.8.24
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1356; Calibrated: 2021.6.1
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1842
- 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) = 2.60 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 36.02 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 3.55 W/kg
SAR(1 g) = 1.94 W/kg; SAR(10 g) = 1.01 W/kg
Maximum value of SAR (measured) = 2.45 W/kg



0 dB = 2.45 W/kg = 3.89 dBW/kg