

FCC SAR Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2527-1
FCC ID : IHDT56AV5
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 given in 47 CFR Part 2.1093 and FCC KDB 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.



Approved by: Si Zhang

Sporton International Inc. (Kunshan)

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

Table of Contents

1. Statement of Compliance	4
2. Administration Data	6
3. Guidance Applied	6
4. Equipment Under Test (EUT) Information	7
4.1 General Information.....	7
4.2 General LTE SAR Test and Reporting Considerations	9
4.3 General 5G NR SAR Test and Reporting Considerations	13
5. TA-SAR feature for RF Exposure compliance	16
6. Proximity Sensor Triggering Test.....	19
7. RF Exposure Limits.....	21
7.1 Uncontrolled Environment	21
7.2 Controlled Environment.....	21
8. Specific Absorption Rate (SAR)	22
8.1 Introduction	22
8.2 SAR Definition	22
9. System Description and Setup.....	23
9.1 E-Field Probe	24
9.2 Data Acquisition Electronics (DAE)	24
9.3 Phantom.....	25
9.4 Device Holder.....	26
10. Measurement Procedures.....	27
10.1 Spatial Peak SAR Evaluation	27
10.2 Power Reference Measurement.....	28
10.3 Area Scan.....	28
10.4 Zoom Scan.....	29
10.5 Volume Scan Procedures	29
10.6 Power Drift Monitoring	29
11. Test Equipment List	30
12. System Verification	31
12.1 Tissue Simulating Liquids.....	31
12.2 Tissue Verification	31
12.3 System Performance Check Results.....	33
13. RF Exposure Positions	34
13.1 Ear and handset reference point	34
13.2 Definition of the cheek position	35
13.3 Definition of the tilt position	36
13.4 Body Worn Accessory	37
13.5 Product Specific 10g SAR Exposure.....	38
13.6 Wireless Router.....	38
14. Conducted RF Output Power (Unit: dBm).....	39
15. Antenna Location	53
16. SAR Test Results	54
16.1 Head SAR	57
16.2 Hotspot SAR	64
16.3 Body Worn Accessory SAR.....	73
16.4 Product specific 10g SAR.....	80
16.5 Repeated SAR Measurement	87
17. Simultaneous Transmission Analysis	88
17.1 5G NR + LTE + WLAN + BT Sim-Tx analysis.....	89
17.2 Head Exposure Conditions.....	91
17.3 Hotspot Exposure Conditions.....	93
17.4 Body-Worn Accessory Exposure Conditions	96
17.5 Product specific 10g SAR Exposure Conditions.....	98
17.6 SPLSR Evaluation and Analysis.....	100
17.7 Maximum Reported SAR and SAR Peak Locations	124
18. Uncertainty Assessment.....	131
19. References.....	132
Appendixes	133
Appendix A. Plots of System Performance Check.....	133
Appendix B. Plots of High SAR Measurement	133
Appendix C. DASY Calibration Certificate.....	133
Appendix D. Test Setup Photos.....	133
Appendix E. Conducted RF Output Power Table	133



Appendix F. Power measurement connection diagram and CA Conducted RF Output Power Table	133
Appendix G. Power reduction mechanism verification	133

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA530724	Rev. 01	Initial issue of report.	Apr. 22, 2025
FA530724	Rev. 02	1. Removed 5G NR ULCA information for DC_n7A-n78A. 2. Updated the GSM850 Head SAR and WLAN 5GHz Body-wron SAR. 3. Updated section 17. This report is an updated version, replacing the report issued on Apr. 22, 2025.	Apr. 30, 2025
FA530724	Rev. 03	Updated the WLAN 5.3GHz power for Appendix E. This report is an updated version, replacing the report issued on Apr. 30, 2025.	May 15, 2025

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT2527-1**, are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	0.49	1.43	1.43	1.59
		GSM1900	0.15	1.28	1.20	
	WCDMA	WCDMA II	0.19	0.84	0.84	
		WCDMA IV	0.45	0.77	0.89	
		WCDMA V	0.34	1.26	1.26	
	LTE	LTE Band 7	0.89	0.96	0.97	
		LTE Band 12/17	0.23	1.15	1.15	
		LTE Band 13	0.29	1.25	1.25	
		LTE Band 25/2	0.89	0.90	1.07	
		LTE Band 26/5	0.88	1.36	1.36	
		LTE Band 66/4	0.88	1.00	1.06	
		LTE Band 41/38	0.90	1.27	0.94	
		LTE Band 42	0.89	0.63	0.88	
	5G NR	FR1 n2	0.88	1.38	1.41	
		FR1 n7	0.91	1.27	1.35	
		FR1 n26/n5	0.88	1.28	1.28	
		FR1 n66	0.93	1.44	1.26	
		FR1 n41/n38	0.88	1.23	0.89	
		FR1 n77/n78	0.89	1.29	1.12	
DTS	WLAN	2.4GHz WLAN	1.20	0.66	1.20	1.59
NII		5GHz WLAN	1.19	0.66	1.15	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.24	0.43	0.43	1.59

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	3.08	3.95
		GSM1900	2.52	
	WCDMA	WCDMA II	3.32	
		WCDMA IV	1.57	
		WCDMA V	2.19	
	LTE	LTE Band 13	1.81	
		LTE Band 7	2.45	
		LTE Band 25/2	2.46	
		LTE Band 26/5	2.54	
		LTE Band 66/4	2.48	
		LTE Band 41/38	2.47	
		LTE Band 42	2.50	
	5G NR	FR1 n2	2.76	
		FR1 n7	2.85	
		FR1 n66	2.51	
FR1 n41/n38		3.08		
FR1 n77/n78		2.48		
DTS	WLAN	2.4GHz WLAN	1.22	3.95
NII		WLAN5GHz	3.18	3.95
Date of Testing:			2025/3/20 ~ 2025/4/24	

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 support's 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 n5 / n38 / n78 and n26 / n41 / n77. Since the supported frequency span for 5GNR n5 / n38 / n78 falls completely within the support's frequency span for n26 / n41 / n77, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n26 / n41 / 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		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR04-KS, SAR05-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	XT2527-1
FCC ID	IHDT56AV5
IMEI Code	Sample 1: IMEI 1: 358887330040732 IMEI 2: 358887330040740 Sample 2: IMEI 1: 358887330049899 IMEI 2: 358887330049907 Sample 3: IMEI 1: 358887330054915 IMEI 2: 358887330054923
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz LTE Band 66: 1710 MHz ~ 1780 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40

	WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE NFC: ASK
HW Version	DVT2
SW Version	V2VN35.50
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:	
- This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. - This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications. - 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). - This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12. - This device supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). - The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the MediaTek TA-SAR will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E. - For WLAN/BT when transmit simultaneously with each other, or when transmit simultaneous with WWAN, power reduction will be activated to head exposure condition. For WLAN when transmit simultaneous with WWAN/BT and Proximity sensors trigger, power reduction will be activated to body-worn and extremity exposure conditions. - For some WWAN bands, sensor on power level is higher than hotspot power level, so front/back sensor on SAR can represent hotspot conservatively. - For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission. - There are three samples, the difference between them refer to the XT2527-1_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, so sample 1 was chosen to perform full SAR testing, and the sample 2/3 are verified the difference with the sample 1. - This device has NFC function and the NFC SAR report will be separately submitted. - This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.	

<5G NR>

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



4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																															
FCC ID	IHDT56AV5																																																														
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 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz LTE Band 66: 1710 MHz ~ 1780 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 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz																																																														
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																														
LTE Voice / Data requirements	Voice and Data																																																														
LTE Release Version	R15																																																														
CA Support	Supported, Uplink and Downlink																																																														
LTE MPR permanently built-in by design	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3 <table><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>	Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)																																																								
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																									
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																								
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																								
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																								
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																								
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																								
256 QAM	≥ 1						≤ 5																																																								
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																														
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																														
Power reduction applied to satisfy SAR compliance	Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body-worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 14.																																																														
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 14.																																																														
LTE Carrier Aggregation Additional Information	1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 3 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							
	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	20525	836.5	20525	836.5		
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5		
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844		
LTE Band 7														
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	21100	2535	21100	2535		
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535		
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560		
LTE Band 12														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23095	707.5	23095	707.5		
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5		
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711		
LTE Band 13														
	Bandwidth 5 MHz				Bandwidth 10 MHz									
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)							
L	23205		779.5		23230		782							
M	23230		782											
H	23255		784.5											
LTE Band 17														
	Bandwidth 5 MHz				Bandwidth 10 MHz									
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)							
L	23755		706.5		23780		709							
M	23790		710		23790		710							
H	23825		713.5		23800		711							
LTE Band 25														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860		
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880		
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905		
LTE Band 26														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 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	26790	824.5		
M	26865	831.5	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	26940	838.5		



LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 42												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	42115	3452.5	42140	3455	42165	3457.5	42190	3460				
M	42590	3500	42590	3500	42590	3500	42590	3500				
H	43065	3547.5	43040	3545	43015	3542.5	42990	3540				



<For LTE Overlap Bands Description>

1) LTE Bands BW

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

2) LTE Bands tune up:

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default Tune-up Limit
		ECI 2	ECI 3	ECI 7	ECI 6	ECI4	
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
LTE Band 4	Ant 1	24.0	20.6	19.7	22.2	24.0	24.0
LTE Band 66	Ant 1	24.0	20.6	19.7	22.2	24.0	24.0
LTE Band 4 Other PA	Ant 1	24.0	20.6	19.7	22.2	24.0	24.0
LTE Band 66 Other PA	Ant 1	24.0	20.6	19.7	22.2	24.0	24.0
LTE Band 4	Ant 4	20.0	19.0	17.5	22.2	24.0	24.0
LTE Band 66	Ant 4	20.0	19.0	17.5	22.2	24.0	24.0
LTE Band 5	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 26	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 5	Ant 4	23.6	23.6	22.0	24.0	24.0	24.0
LTE Band 26	Ant 4	23.6	23.6	22.0	24.0	24.0	24.0
LTE Band 2	Ant 1	24.0	21.8	20.7	22.8	24.0	24.0
LTE Band 25	Ant 1	24.0	21.8	20.7	22.8	24.0	24.0
LTE Band 2	Ant 4	19.5	19.2	16.6	21.2	24.0	24.0
LTE Band 25	Ant 4	19.5	19.2	16.6	21.2	24.0	24.0
LTE Band 12	Ant0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 17	Ant0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 38	Ant1	24.0	24.0	22.9	24.0	24.0	24.0
LTE Band 41	Ant1	24.0	24.0	22.9	24.0	24.0	24.0
LTE Band 38 Other PA	Ant1	24.0	24.0	22.9	24.0	24.0	24.0
LTE Band 41Other PA	Ant1	24.0	24.0	22.9	24.0	24.0	24.0
LTE Band 38	Ant4	22.5	21.2	19.7	22.9	24.0	24.0
LTE Band 41	Ant4	22.5	21.2	19.7	22.9	24.0	24.0

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 n7: 2500 MHz ~ 2570 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
Channel Bandwidth	The detail please refers to section 4.1 5GNR FR1 bands table.
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B4
LTE Anchor Bands for n7	LTE B2/4/5/66
LTE Anchor Bands for n66	LTE B2/5/7
LTE Anchor Bands for n38	LTE B4/66
LTE Anchor Bands for n41	LTE B4/66
LTE Anchor Bands for n78	LTE B2/4/5/7/26/38/41/66

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		Bandwidth 35MHz		Bandwidth 40MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	373500	1867.5	374000	1870
M 376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880
H 381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895	378500	1892.5	378000	1890

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

NR Band 7															
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	503500	2517.5	504000	2520
M 507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535
H 513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510500	2552.5	510000	2550

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

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



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

NR Band 41																											
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 45MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 500202	2501.01	500700	2503.5	501204	2506.02	501702	2508.51	502200	2511	502704	2513.52	503202	2516.01	503700	2518.5	504204	2521.02	505200	2526	500202	2501.01	507204	2536.02	508200	2541	509202	2546.01
M 518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H 537000	2685	536496	2682.48	535998	2679.99	535500	2677.5	534996	2674.98	534498	2672.49	534000	2670	533496	2667.48	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640

NR Band 77																							
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M 656000	3840	656000	3840	656000	3840	656000	3840.00	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H 665000	3975	664834	3972.51	664668	3970.02	664500	3967.50	664334	3965.01	664000	3960	663668	3955.02	663334	3950.01	663000	3945	662668	3940.02	662334	3935.01	662000	3930

NR Band 78																							
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M 650000	3750	650000	3750	650000	3750	650000	3750.00	650000	3750.00	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H 653000	3795	652834	3792.51	652668	3790.02	652500	3787.5	652334	3785.01	652000	3780	651668	3775.02	651334	3770.01	651000	3765	650668	3760.02	650334	3755.01		

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

Band	Duplex	SCS(KHz)	Bandwidths(BW)
n5	FDD	15	5, 10, 15, 20
n26	FDD	15	5, 10, 15, 20
n38	TDD	30	10, 15, 20, 25, 30, 40
n41	TDD	30	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100
n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100

2) NR Bands Tune up:

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default Tune-up Limit
		ECI 2	ECI 3	ECI 7	ECI 6	ECI4	
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
FR1 n5	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
FR1 n26	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
FR1 n5	Ant 4	23.6	24.0	22.0	24.0	24.0	24.0
FR1 n26	Ant 4	23.6	24.0	22.0	24.0	24.0	24.0
FR1 n38	Ant 1	24.0	20.7	19.3	21.2	24.0	24.0
FR1 n41	Ant 1	24.0	20.7	19.3	21.2	24.0	24.0
FR1 n38	Ant 4	20.9	19.4	17.6	20.8	24.0	24.0
FR1 n41	Ant 4	20.9	19.4	17.6	20.8	24.0	24.0
FR1 n77	Ant 5	16.4	18.7	15.2	20.3	24.0	24.0
FR1 n78	Ant 5	16.4	18.7	15.2	20.3	24.0	24.0
FR1 n77	Ant 3	19.5	14.3	12.9	19.5	19.5	19.5
FR1 n78	Ant 3	19.5	14.3	12.9	19.5	19.5	19.5
FR1 n77	Ant 7	15.9	20.4	18.9	23.2	24.0	24.0
FR1 n78	Ant 7	15.9	20.4	18.9	23.2	24.0	24.0
FR1 n77	Ant 9	20.5	20.5	19.8	20.5	20.5	20.5
FR1 n78	Ant 9	20.5	20.5	19.8	20.5	20.5	20.5

5. TA-SAR feature for RF Exposure compliance

WWAN bands are all enabled with MediaTek TA-SAR Gen2 feature to improve antenna performance by applying separate SAR budgets to each predefined antenna group. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time.

Note that WLAN/BT operations are not enabled with TA-SAR Gen2 feature.

The FCC RF exposure limit is defined based on time-averaged RF exposure. The product implements MediaTek TA-SAR feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window, for SAR (transmit frequency $\leq 6\text{GHz}$). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

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

The P_{limit} values correspond to SAR_{design_target}. The power will be fixed at the static reduce power level at different exposure conditions for RF exposure compliance. For the GSM (TDD) P_{limit} power levels in the table correspond to the burst average power levels which don't account for TX duty cycle.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for TA-SAR Gen2 algorithm. SAR char will be entered via the MediaTek's NV suggestion to enable the TA-SAR Gen2 Feature.

<Terminologies in this report>

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

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for TA-SAR Gen2 algorithm to control and manage RF exposure for $f < 6\text{GHz}$.

SPLSR_Group (Antenna Group):

Antenna Group 0 (AG0)	ANT0 & ANT1 & ANT9
Antenna Group 1 (AG1)	ANT3 & ANT4 & ANT5 & ANT7

<SAR design target and uncertainty>

Item	Uncertainty dB (k=2)
Total uncertainty	1.5

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

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

The TA-SAR Gen2 algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band.

TA-SAR allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit.

<Plimit for supported technologies and bands >

Band	Antenna	Head ECI2	Bodyworn ECI3	Hotspot ECI7	Extremity ECI6	Sensor off ECI4	Pmax*
GSM850	Ant0	28.7	26.6	26.6	24.5	24.5	24.5
GSM1900	Ant1	30.7	25.4	25.4	25.4	21.2	21.2
WCDMA II	Ant1	31.2	20.0	20.0	22.1	23.0	23.0
WCDMA IV	Ant1	27.6	19.6	18.0	20.1	23.0	23.0
WCDMA V	Ant0	28.7	22.4	22.4	24.6	23.0	23.0
LTE Band 7	Ant1	29.4	18.6	18.4	20.4	23.0	23.0
LTE Band 7 Other PA	Ant1	29.4	18.6	18.4	20.4	23.0	23.0
LTE Band 7	Ant4	18.5	18.0	15.9	18.8	23.0	23.0
LTE Band 12(17)	Ant0	30.5	23.5	23.5	23.0	23.0	23.0
LTE Band 13	Ant0	29.5	23.1	23.1	23.0	23.0	23.0
LTE Band 25(2)	Ant1	31.3	20.8	19.7	21.8	23.0	23.0
LTE Band 2 Other PA	Ant1	31.3	20.8	19.7	21.8	23.0	23.0
LTE Band 25(2)	Ant4	18.5	18.2	15.6	20.2	23.0	23.0
LTE Band 26(5)	Ant0	28.9	23.0	23.0	24.0	23.0	23.0
LTE Band 26(5)	Ant4	22.0	22.6	21.0	23.0	23.0	23.0
LTE Band 66(4)	Ant1	30.2	19.6	18.7	21.2	23.0	23.0
LTE Band 66 Other PA	Ant1	30.2	19.6	18.7	21.2	23.0	23.0
LTE Band 66(4)	Ant4	19.0	18.0	16.5	21.2	23.0	23.0
LTE Band 41(38)	Ant1	30.2	23.0	19.9	22.2	21.0	21.0
LTE Band 41(38) Other PA	Ant1	30.2	23.0	19.9	22.2	21.0	21.0
LTE Band 41(38)	Ant4	19.5	18.2	16.7	19.9	21.0	21.0
LTE Band 42	Ant5	15.1	16.5	13.1	18.4	21.0	21.0
FR1 n2	Ant1	33.0	20.8	20.3	22.3	23.0	23.0
FR1 n2	Ant4	19.1	20.2	16.9	21.3	23.0	23.0
FR1 n2 Other PA	Ant4	19.1	20.2	16.9	21.3	23.0	23.0
FR1 n7	Ant1	30.4	21.2	19.2	21.1	23.0	23.0
FR1 n7 Other PA	Ant1	30.4	21.2	19.2	21.1	23.0	23.0
FR1 n7	Ant4	19.6	19.6	18.3	21.0	23.0	23.0
FR1 n7 Other PA	Ant4	19.6	19.6	18.3	21.0	23.0	23.0
FR1 n26(5)	Ant0	30.3	22.5	22.5	23.0	23.0	23.0
FR1 n26(5)	Ant4	22.6	22.5	21.0	23.0	23.0	23.0

FR1 n66	Ant1	33.2	19.3	18.9	22.8	23.0	23.0
FR1 n66 Other PA	Ant1	33.2	19.3	18.9	22.8	23.0	23.0
FR1 n66	Ant4	18.9	18.4	16.7	21.3	23.0	23.0
FR1 n66 Other PA	Ant4	18.9	18.4	16.7	21.3	23.0	23.0
FR1 n41(38) PC3	Ant1	30.5	19.7	18.3	20.2	23.0	23.0
FR1 n41(38) PC3	Ant4	19.9	18.4	16.6	19.8	23.0	23.0
FR1 n77(78) PC3	Ant5	15.4	17.7	14.2	19.3	23.0	23.0
FR1 n77(78) PC3	Ant3	25.1	13.3	11.9	19.7	18.5	18.5
FR1 n77(78) PC3	Ant7	14.9	19.4	17.9	22.2	23.0	23.0
FR1 n77(78) PC3	Ant9	28.1	20.1	18.8	20.2	19.5	19.5

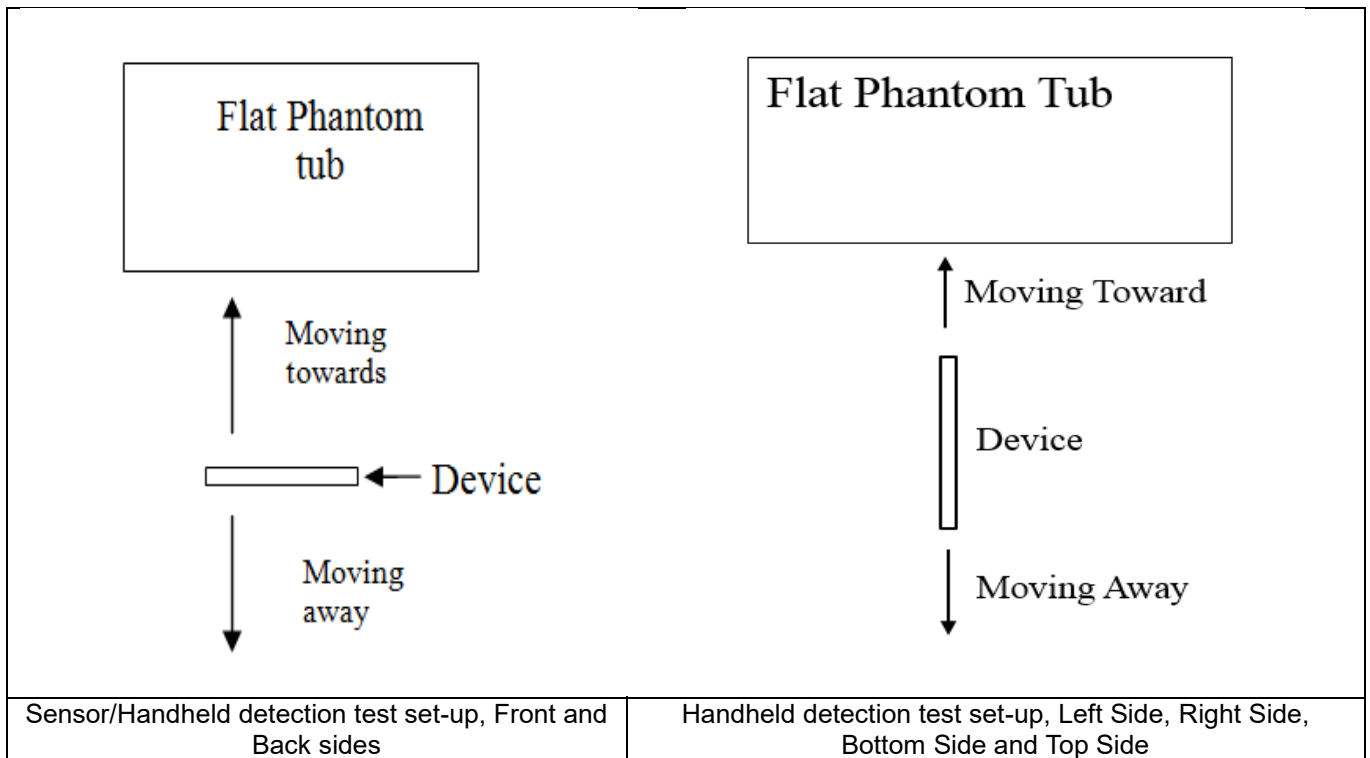
Note:

- 1) *Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + 1.0 dB device uncertainty.
- 2) All Plimit power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD).
- 3) The max allowed output power is the Plimit + 1.0 dB device uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.

6. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (5825MHz) and lowest (835MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device.
3. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
4. The sensors used to detect the proximity of the user's body at the front or back surface of the device use a detection threshold distance. The data shown in the sections below shows the distance(s). When front or back body worn condition is detected reduced power will be active.
5. The device employs proximity sensors also can detect the presence of the user's a finger or hand when handheld state at the front/back/top/bottom/left/right sides of the device. When front/back/top/bottom/left/right sides of handheld condition is detected reduced power will be active.
6. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed:



<P-Sensor>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	18	25	21	30

<Handheld for ANT 1>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	6	12	6	10	11	17

<Handheld for ANT4>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	6	11	12	17	9	14	10	15

<Handheld for ANT 5/7>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	14	19	19	23	18	23	14	19

7. RF Exposure Limits

7.1 Uncontrolled Environment

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

7.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

8. Specific Absorption Rate (SAR)

8.1 Introduction

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

8.2 SAR Definition

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

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

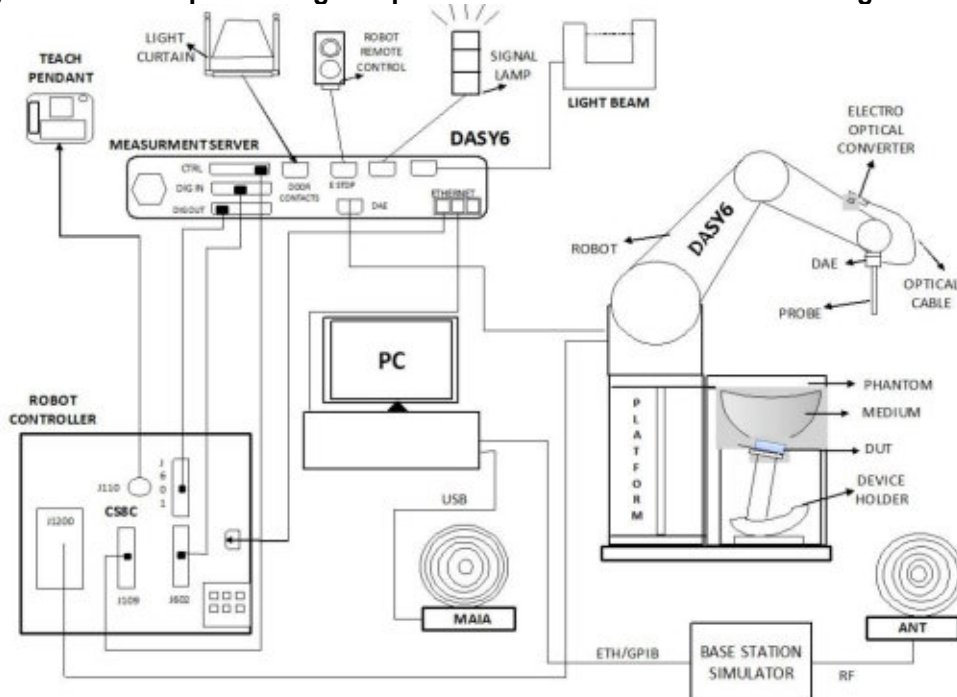
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

9. System Description and Setup

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



- 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 Win7 or Win10 and the DASY5 or DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

9.1 E-Field Probe

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

<EX3DV4 Probe>

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

9.2 Data Acquisition Electronics (DAE)

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

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



Photo of DAE

9.3 Phantom

<SAM Twin Phantom>

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

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

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

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices or for evaluating transmitters operating at low frequencies. ELI is fully compatible with standard and all known tissue simulating liquids.

9.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

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



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

10. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

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

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

10.1 Spatial Peak SAR Evaluation

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

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

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

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

10.2 Power Reference Measurement

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

10.3 Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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.	

10.4 Zoom Scan

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

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

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

10.5 Volume Scan Procedures

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

10.6 Power Drift Monitoring

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

11. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1099	2024/12/13	2025/12/12
SPEAG	835MHz System Validation Kit	D835V2	4d162	2024/12/13	2025/12/12
SPEAG	1750MHz System Validation Kit	D1750V2	1137	2024/10/15	2025/10/14
SPEAG	1900MHz System Validation Kit	D1900V2	5d182	2024/12/16	2025/12/15
SPEAG	2450MHz System Validation Kit	D2450V2	1095	2024/2/8	2026/2/6
SPEAG	2600MHz System Validation Kit	D2600V2	1112	2023/12/18	2025/12/16
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2023/11/20	2025/11/18
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2023/11/20	2025/11/18
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2023/3/9	2026/3/6
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2025/9/21
SPEAG	Data Acquisition Electronics	DAE4	1358	2024/5/23	2025/5/22
SPEAG	Data Acquisition Electronics	DAE4	1691	2024/4/19	2025/4/18
SPEAG	Dosimetric E-Field Probe	EX3DV4	7774	2024/6/27	2025/6/26
SPEAG	Dosimetric E-Field Probe	EX3DV4	7764	2024/9/2	2025/9/1
SPEAG	SAM Twin Phantom	SAM Twin	TP-2074	NCR	NCR
SPEAG	SAM Twin Phantom	SAM Twin	TP-1753	NCR	NCR
CHIGO	Thermo-Hygrometer	HTC-1	1929545	2024/5/15	2025/5/14
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2024/7/4	2025/7/3
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	2024/7/4	2025/7/3
SPEAG	Dielectric Probe Kit	DAK-3.5	1144	2024/8/20	2025/8/19
Anritsu	Vector Signal Generator	MG3710A	6201682672	2025/1/3	2026/1/2
Rohde & Schwarz	Power Meter	NRVD	102081	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2024/7/4	2025/7/3
R&S	BLUETOOTH TESTER	CBT	101246	2024/7/4	2025/7/3
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2024/10/11	2025/10/10
TES	DIGITAC THERMOMETER	TYPE-K	220305411	2025/1/2	2026/1/1
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	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	

Note:

- 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.
- 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.
- The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

12. System Verification

12.1 Tissue Simulating Liquids

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

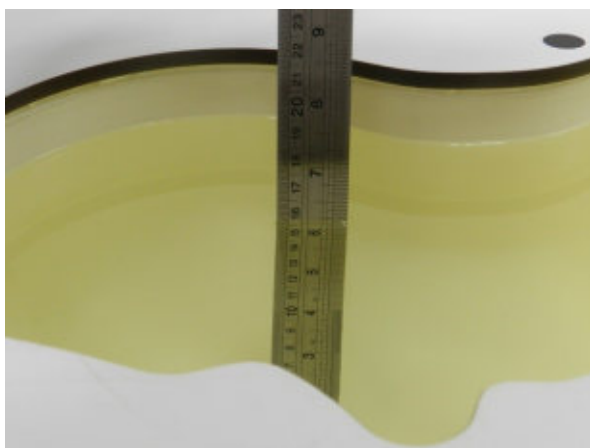


Fig 11.1 Photo of Liquid Height for Head SAR



Fig 11.2 Photo of Liquid Height for Body SAR

12.2 Tissue Verification

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

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (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)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	Head	22.8	0.888	42.3	0.89	41.90	-0.22	0.95	±5	2025/3/20
835	Head	22.7	0.911	41.8	0.90	41.50	1.22	0.72	±5	2025/3/22
1750	Head	22.7	1.35	40.6	1.37	40.10	-1.46	1.25	±5	2025/3/24
1900	Head	22.7	1.41	40.2	1.40	40.00	0.71	0.50	±5	2025/3/26
2600	Head	22.6	1.88	39.2	1.96	39.00	-4.08	0.51	±5	2025/3/28
3500	Head	22.9	2.82	38.5	2.91	37.90	-3.09	1.58	±5	2025/3/30
3700	Head	22.8	2.99	38.3	3.12	37.70	-4.17	1.59	±5	2025/4/1
3900	Head	22.8	3.19	38.0	3.32	37.50	-3.92	1.33	±5	2025/4/1
750	Head	22.7	0.891	42.5	0.89	41.90	0.11	1.43	±5	2025/4/3
835	Head	22.8	0.912	41.9	0.90	41.50	1.33	0.96	±5	2025/4/5
1750	Head	22.6	1.320	40.3	1.37	40.10	-3.65	0.50	±5	2025/4/7
1900	Head	22.8	1.43	40.5	1.40	40.00	2.14	1.25	±5	2025/4/9
2600	Head	22.7	1.93	38.2	1.96	39.00	-1.53	-2.05	±5	2025/4/11
3500	Head	22.7	2.81	38.7	2.91	37.90	-3.44	2.11	±5	2025/4/13
3700	Head	22.8	2.99	38.400	3.12	37.70	-4.17	1.86	±5	2025/4/15
3900	Head	22.8	3.18	38.1	3.32	37.50	-4.22	1.60	±5	2025/4/15
2450	Head	22.7	1.85	39.1	1.80	39.20	2.78	-0.26	±5	2025/4/16
5250	Head	22.8	4.58	35.7	4.71	35.90	-2.76	-0.56	±5	2025/4/16
5600	Head	22.7	4.96	35.0	5.07	35.50	-2.17	-1.41	±5	2025/4/17
5750	Head	22.7	5.12	34.1	5.22	35.40	-1.92	-3.67	±5	2025/4/17
835	Head	22.8	0.918	42.0	0.90	41.50	2.00	1.20	±5	2025/4/23
5250	Head	22.8	4.64	35.7	4.71	35.95	-1.49	-0.70	±5	2025/4/24
5600	Head	22.7	4.99	35.0	5.07	35.50	-1.58	-1.41	±5	2025/4/24
5750	Head	22.7	5.22	34.8	5.22	35.35	0.00	-1.56	±5	2025/4/24

12.3 System Performance Check Results

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

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2025/3/20	750	Head	50	1099	7774	1358	0.426	8.28	8.52	2.90	0.284	5.37	5.68	5.77
2025/3/22	835	Head	50	4d162	7774	1358	0.460	9.08	9.2	1.32	0.305	5.85	6.1	4.27
2025/3/24	1750	Head	50	1137	7774	1358	1.830	36.80	36.6	-0.54	0.984	19.60	19.68	0.41
2025/3/26	1900	Head	50	5d182	7774	1358	1.920	39.80	38.4	-3.52	0.980	21.00	19.6	-6.67
2025/3/28	2600	Head	50	1112	7774	1358	2.590	55.10	51.8	-5.99	1.170	24.80	23.4	-5.65
2025/3/30	3500	Head	50	1037	7774	1358	3.240	65.40	64.8	-0.92	1.250	24.70	25	1.21
2025/4/1	3700	Head	50	1008	7774	1358	3.610	67.20	72.2	7.44	1.290	24.40	25.8	5.74
2025/4/1	3900	Head	50	1048	7774	1358	3.350	69.10	67	-3.04	1.200	24.10	24	-0.41
2025/4/3	750	Head	50	1099	7774	1358	0.427	8.28	8.54	3.14	0.285	5.37	5.7	6.15
2025/4/5	835	Head	50	4d162	7774	1358	0.457	9.08	9.14	0.66	0.303	5.85	6.06	3.59
2025/4/7	1750	Head	50	1137	7774	1358	1.830	36.80	36.6	-0.54	0.982	19.60	19.64	0.20
2025/4/9	1900	Head	50	5d182	7774	1358	1.920	39.80	38.4	-3.52	0.977	21.00	19.54	-6.95
2025/4/11	2600	Head	50	1112	7774	1358	2.600	55.10	52	-5.63	1.170	24.80	23.4	-5.65
2025/4/13	3500	Head	50	1037	7774	1358	3.230	65.40	64.6	-1.22	1.250	24.70	25	1.21
2025/4/15	3700	Head	50	1008	7774	1358	3.550	67.20	71	5.65	1.250	24.40	25	2.46
2025/4/15	3900	Head	50	1048	7774	1358	3.320	69.10	66.4	-3.91	1.190	24.10	23.8	-1.24
2025/4/16	2450	Head	50	1095	7764	1691	2.770	52.60	55.4	5.32	1.290	24.70	25.8	4.45
2025/4/16	5250	Head	50	1113	7764	1691	4.380	81.50	87.6	7.48	1.250	23.30	25	7.30
2025/4/17	5600	Head	50	1113	7764	1691	4.460	82.60	89.2	7.99	1.260	23.70	25.2	6.33
2025/4/17	5750	Head	50	1113	7764	1691	4.330	80.80	86.6	7.18	1.210	23.00	24.2	5.22
2025/4/23	835	Head	50	4d162	7774	1358	0.423	9.080	8.46	-6.83	0.281	5.850	5.62	-3.93
2025/4/24	5250	Head	50	1113	7774	1358	3.840	81.500	76.8	-5.77	1.140	23.300	22.8	-2.15
2025/4/24	5600	Head	50	1113	7774	1358	3.870	82.600	77.4	-6.30	1.160	23.700	23.2	-2.11
2025/4/24	5750	Head	50	1113	7774	1358	3.780	80.800	75.6	-6.44	1.100	23.000	22	-4.35

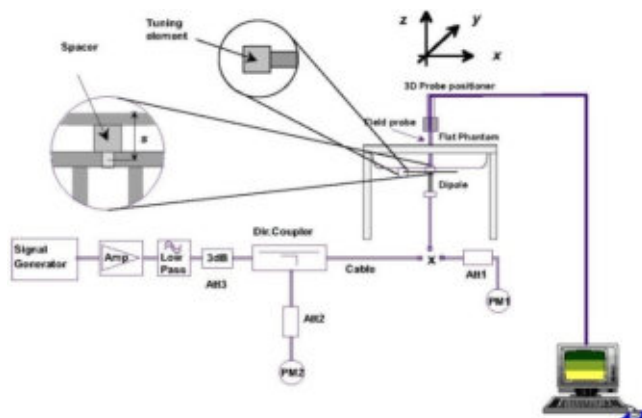


Fig 11.3.1 System Performance Check Setup



Fig 11.3.2 Setup Photo

13. RF Exposure Positions

13.1 Ear and handset reference point

Figure 12.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M,” the left ear reference point (ERP) is marked “LE,” and the right ERP is marked “RE.” Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 12.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 12.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 12.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

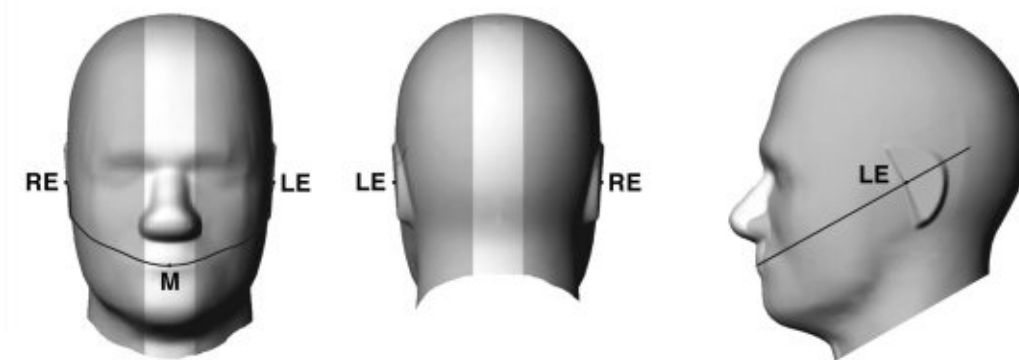


Fig 12.1.1 Front, back, and side views of SAM twin phantom

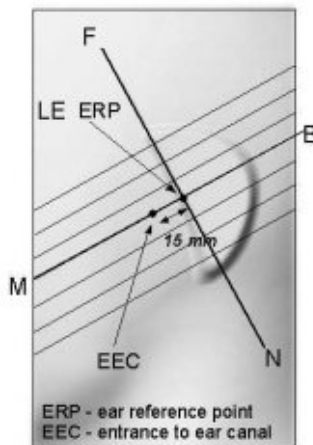


Fig 12.1.2 Close-up side view of phantom showing the ear region.

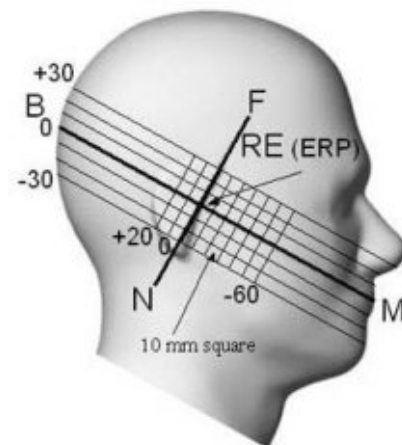


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

13.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width 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.

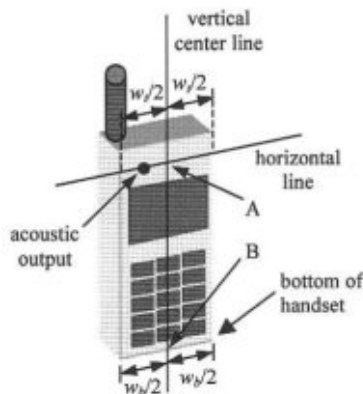


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case"

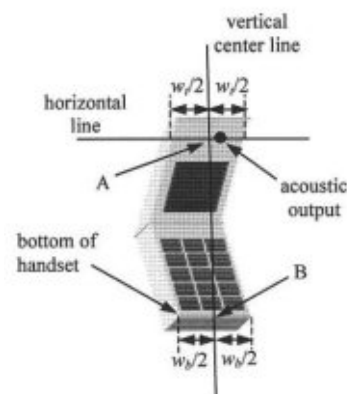


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

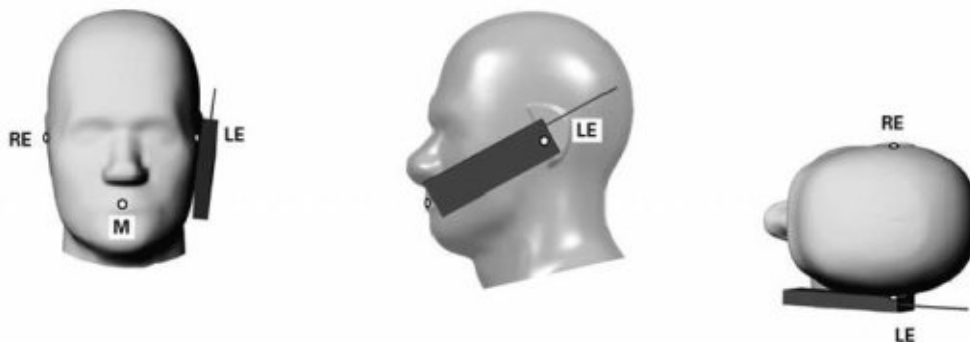


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

13.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 12.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

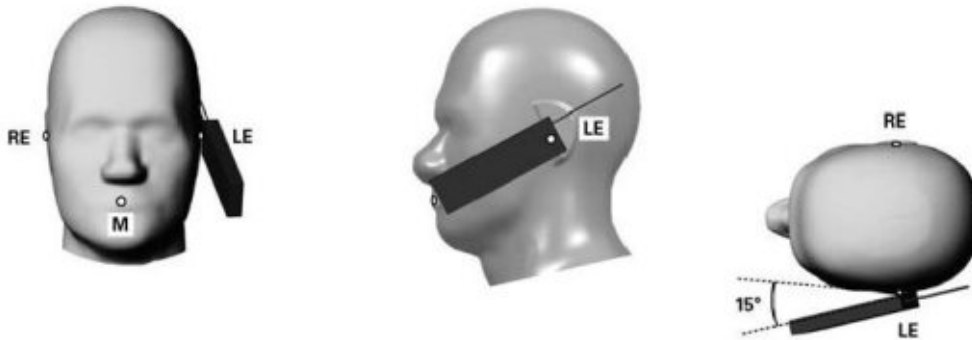


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

13.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 11.4). 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 $> 1.2 \text{ W/kg}$, 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 test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

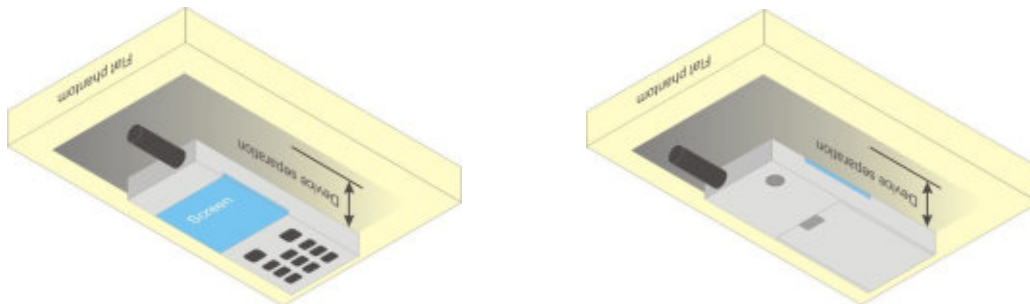


Fig 12.4 Body Worn Position

13.5 Product Specific 10g SAR Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.⁶ The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

13.6 Wireless Router

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

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

14. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ 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_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.
 Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.
 Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
 Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

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

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

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

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

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

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

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

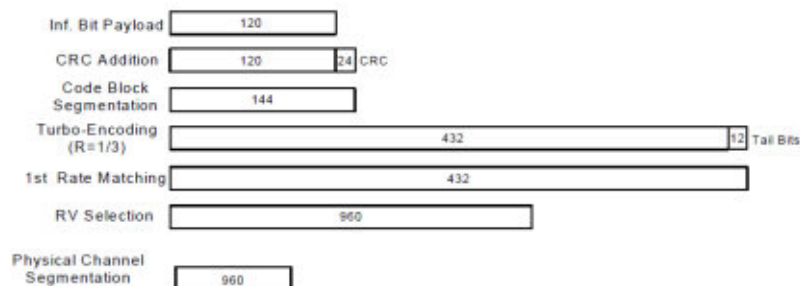


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

HSPA+ 3GPP release 7 (uplink category 7) 16QAM, Setup Configuration:

- i. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- ii. The RF path losses were compensated into the measurements.
- iii. A call was established between EUT and Base Station with following setting * :
 4. Call Configs = 5.2E:HSPA+:UL with 16QAM
 5. 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
 6. Set Channel Params
 7. Set Cell Power = -86 dBm
 8. Set Channel Type = HSPA
 9. Set UE Target Power =21 dBm
 10. Power Ctrl Mode= All Up Bits
 11. Set Manual Uplink DPCH Bc/Bd = Manual
 12. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
 13. Set HSPA Conn DL Channel Levels
 14. Set HS-SCCH Configs
 15. Set RB Test Mode Setup
 16. Set Common HSUPA Parameters
 17. Set Serving Grant
 18. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
- iv. 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 (Note3)	β_d	β_{HS} (Note1)	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: Δ_{ACK} , Δ_{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.

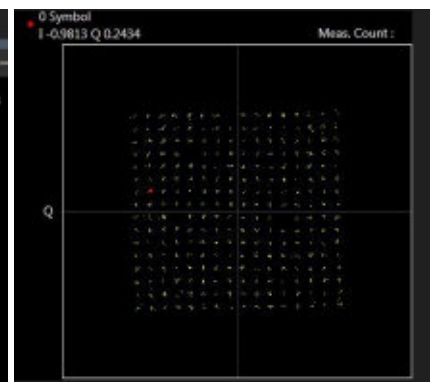
Setup Configuration
<WCDMA Conducted Power>
General Note:

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 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 / B17 / B4 / B5 / B38 SAR test was covered by B25 / B12 / B66 / B26 / 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 May 2017 TCB workshop, for 16QAM and 64QAM, 256QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 256QAM, 64QAM and 16QAM signal modulation are correct.


16QAM

64QAM

256QAM

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

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

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

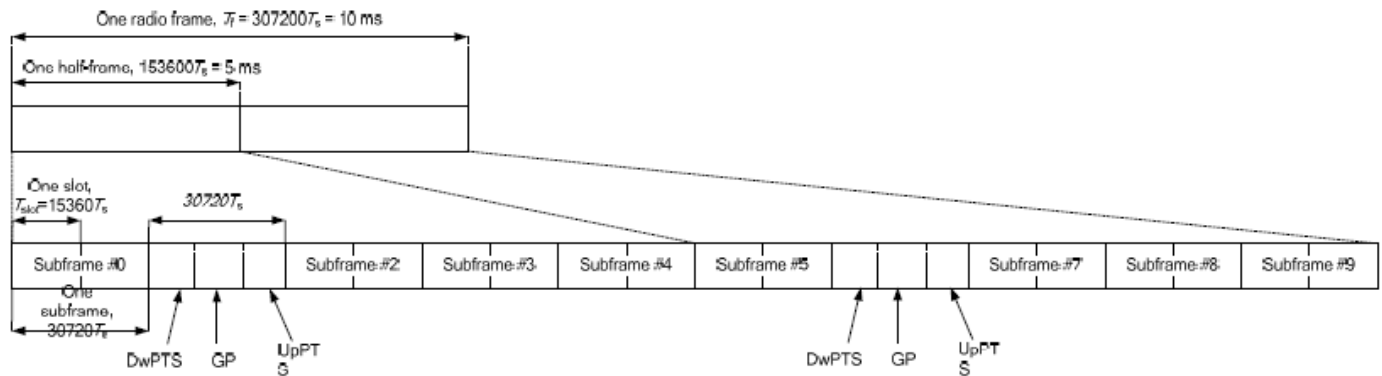


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

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

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

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

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

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

The highest duty factor is resulted from:

For LTE TDD Power class 3

- v. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- vi. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- vii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- viii. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- ix. 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.

**<LTE Carrier Aggregation>**

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

General Note:

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

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_7C	Ant 1

<Intra-band>
General Note:

- The device supports intra-band uplink carrier aggregation for LTE B7 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.
- According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- Additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

<Inter-band uplink carrier aggregation consideration>

LTE Uplink CA	2CC Uplink Carrier Aggregation
Inter-band	Main Antenna Tx
CA_4A-5A	Ant 1 + Ant 4
CA_4A-7A	Ant 1 + Ant 4
CA_5A-7A	Ant 4 + Ant 1
CA_2A-7A	Ant 1 + Ant 4
CA_2A-66A	Ant 1 + Ant 4
CA_2A-4A	Ant 1 + Ant 4

General Note:

- The single carrier of inter band CA uplink power level is the same as Non-CA standalone LTE power level.
- The product implements MediaTek TA-SAR Gen2 feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR (transmit frequency ≤ 6GHz). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.
- For LTE inter-band CA mode, MediaTek TA-SAR Gen2 algorithm in WWAN adds directly the time-averaged RF exposure between two LTE bands. TA-SAR Gen2 algorithm controls the total RF exposure based on LTE inter CA bands to not exceed FCC limit. In Part 1 Report, simultaneous transmission compliance was evaluated with other Radios (WLAN or BT) using standalone LTE SAR mode.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n7/n66/n38/n41/n78 is NSA mode.
2. 5G NR n2/n5/n7/n26/n66/n38/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 class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s QPSK and the reported SAR for the DFT-s QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
5. For 5G NR, the simultaneous transmission analysis is used standalone SAR at total power level to show compliance.
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	

<EN-DC combination>

ENDC	Main Antenna Tx	
	LTE TX	NR TX
DC_2A_n7A	Ant 1	Ant 4
DC_4A_n7A	Ant 1	Ant 4
DC_5A_n7A	Ant 4	Ant 1
DC_66A_n7A	Ant 1	Ant 4
DC_2A_n66A	Ant 1	Ant 4
DC_5A_n66A	Ant 4	Ant 1
DC_7A_n66A	Ant 1	Ant 4
DC_66A_n41A	Ant 1	Ant 4
DC_2A_n78A	Ant 1	Ant 5
DC_4A_n78A	Ant 1	Ant 5
DC_5A_n78A	Ant 0	Ant 5
DC_7A_n78A	Ant 1	Ant 5
DC_38A_n78A	Ant 1	Ant 5
DC_41A_n78A	Ant 1	Ant 5
DC_66A_n78A	Ant 1	Ant 5
DC_26A_n78A	Ant 0	Ant 5
DC_4A_n2A	Ant 1	Ant 4
DC_4A_n38A	Ant 1	Ant 4
DC_4A_n41A	Ant 1	Ant 4
DC_66A_n38A	Ant 1	Ant 4

<WLAN Conducted Power>

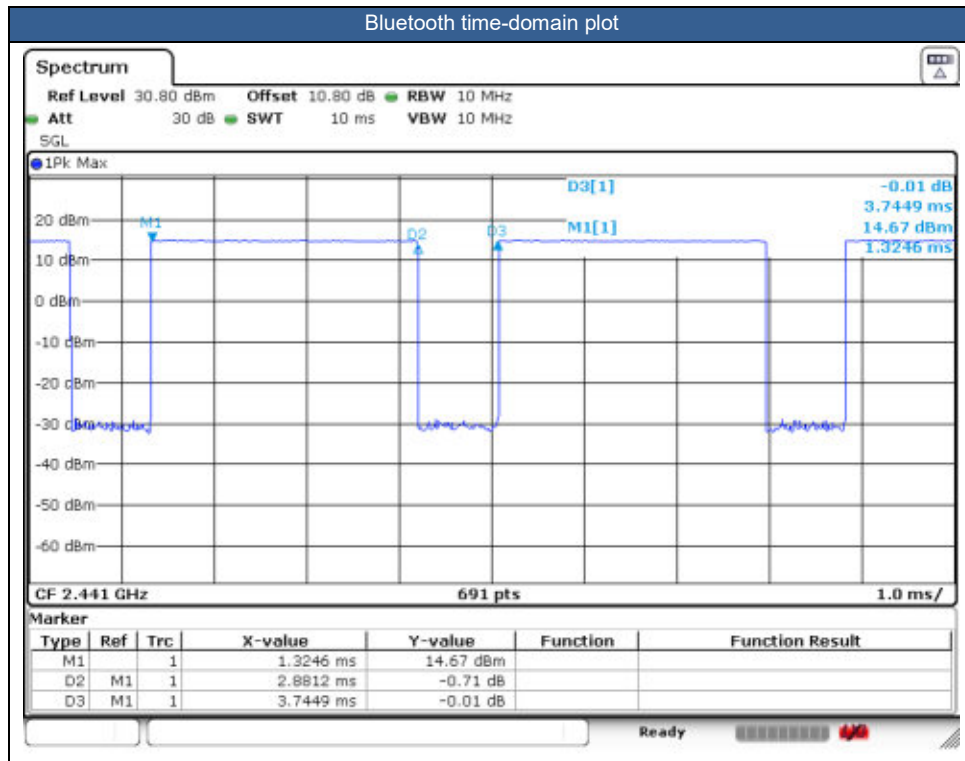
General Note:

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

<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 76.94% as following figure, for Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.





15. Antenna Location

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

16. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
 - d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - e. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - f. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the MediaTek TA-SAR will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850/1900, WCDMA Band II/IV/V, LTE Band 2/4/5/7/13/25/26/66/38/41/42, 5GNR n2/n7/n66/n38/n41/n77/n78, WLAN 2.4/5.2/5.8GHz, 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.
6. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.
7. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
8. LTE B2/7/66/38/41 and 5GNR n7/n66 at Ant 1 and 5GNR n2/7/66 at Ant 4 support different PAs for same antennas. And some LTE/NR bands support Other PA only under ENDC& UL CA. Some LTE/NR bands support different PAs for some antennas, whether it is the maximum power of Main PA is higher than and very close to the other PA, for RF exposure, after verification all PAs in a same position, so the worst-case PA was chosen to perform full SAR testing to ensure the RF exposure is compliance and another PA verified the worst case.
9. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
10. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address



interactive hand use exposure conditions.

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 $\leq \frac{1}{4}$ 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 $\leq \frac{1}{4}$ 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 Note:

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

5G NR Note:

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

WLAN/Bluetooth Note:

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

ECI status description:

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

This WWAN bands enabled with MediaTek TA-SAR Gen2 feature which located at chapter 5. The default power is Pmax power, When Plimit power higher than Pmax power, the output power will be limited at Pmax, and so the SAR will use Pmax power to do the testing.

Exposure Condition	ECI	Trigger conditions
Head SAR	ECI2	Earpiece On
Hotspot SAR	ECI7	Hotspot On
Body worn SAR	ECI3	Sensor On
Extremity SAR	ECI6	Sensor On
Body worn/ Extremity SAR	ECI4	Sensor Off



16.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
750MHz																					
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 2	23095	707.5	1	22.61	24.00	1.377	-	-	0.14	0.107	0.147
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI 2	23095	707.5	1	21.67	23.00	1.358	-	-	-0.17	0.088	0.120
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 2	23095	707.5	1	22.61	24.00	1.377	-	-	0.17	0.063	0.087
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI 2	23095	707.5	1	21.67	23.00	1.358	-	-	-0.05	0.054	0.073
01	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 2	23095	707.5	1	22.61	24.00	1.377	-	-	-0.01	0.164	0.226
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI 2	23095	707.5	1	21.67	23.00	1.358	-	-	-0.01	0.134	0.182
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 2	23095	707.5	1	22.61	24.00	1.377	-	-	0.1	0.102	0.140
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI 2	23095	707.5	1	21.67	23.00	1.358	-	-	-0.17	0.083	0.113
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 2	23230	782	1	22.86	24.00	1.300	-	-	0.04	0.151	0.196
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI 2	23230	782	1	21.91	23.00	1.285	-	-	-0.01	0.120	0.154
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 2	23230	782	1	22.86	24.00	1.300	-	-	-0.08	0.096	0.125
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI 2	23230	782	1	21.91	23.00	1.285	-	-	0.05	0.078	0.100
02	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 2	23230	782	1	22.86	24.00	1.300	-	-	0.09	0.222	0.289
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI 2	23230	782	1	21.91	23.00	1.285	-	-	0.06	0.180	0.231
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 2	23230	782	1	22.86	24.00	1.300	-	-	-0.09	0.127	0.165
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI 2	23230	782	1	21.91	23.00	1.285	-	-	-0.08	0.110	0.141
835MHz																					
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 0	ECI 2	189	836.4	1	27.16	28.50	1.361	-	-	0.15	0.240	0.327
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 0	ECI 2	189	836.4	1	27.16	28.50	1.361	-	-	-0.09	0.127	0.173
03	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 0	ECI 2	189	836.4	1	27.16	28.50	1.361	-	-	0.01	0.360	0.490
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 0	ECI 2	189	836.4	1	27.16	28.50	1.361	-	-	0.03	0.137	0.187
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	ECI 2	4182	836.4	1	22.58	24.00	1.387	-	-	0.08	0.154	0.214
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	ECI 2	4182	836.4	1	22.58	24.00	1.387	-	-	0.01	0.091	0.126
04	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	ECI 2	4182	836.4	1	22.58	24.00	1.387	-	-	-0.09	0.247	0.343
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	ECI 2	4182	836.4	1	22.58	24.00	1.387	-	-	0.03	0.142	0.197
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 2	26865	831.5	1	22.65	24.00	1.365	-	-	-0.03	0.158	0.216
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	ECI 2	26865	831.5	1	21.64	23.00	1.368	-	-	-0.15	0.127	0.174
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 2	26865	831.5	1	22.65	24.00	1.365	-	-	0.02	0.099	0.135
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	ECI 2	26865	831.5	1	21.64	23.00	1.368	-	-	0.07	0.075	0.103
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 2	26865	831.5	1	22.65	24.00	1.365	-	-	0.16	0.243	0.332
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	ECI 2	26865	831.5	1	21.64	23.00	1.368	-	-	0.13	0.185	0.253
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 2	26865	831.5	1	22.65	24.00	1.365	-	-	-0.18	0.127	0.173
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	ECI 2	26865	831.5	1	21.64	23.00	1.368	-	-	0.02	0.100	0.137
05	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	26865	831.5	1	22.19	23.00	1.205	-	-	-0.11	0.734	0.884
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 4	ECI 2	26865	831.5	1	22.10	23.00	1.230	-	-	0.08	0.502	0.618
	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 4	ECI 2	26865	831.5	1	21.95	23.00	1.274	-	-	0.01	0.621	0.791
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	26865	831.5	1	22.19	23.00	1.205	-	-	0.01	0.589	0.710
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 4	ECI 2	26865	831.5	1	22.10	23.00	1.230	-	-	0.03	0.465	0.572
	LTE Band 26	15M	QPSK	75	0	-	Right Tilted	0mm	Ant 4	ECI 2	26865	831.5	1	21.95	23.00	1.274	-	-	0.06	0.498	0.634
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 2	26865	831.5	1	22.19	23.00	1.205	-	-	-0.08	0.351	0.423
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 4	ECI 2	26865	831.5	1	22.10	23.00	1.230	-	-	-0.08	0.277	0.341
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 2	26865	831.5	1	22.19	23.00	1.205	-	-	0.1	0.327	0.394
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 4	ECI 2	26865	831.5	1	22.10	23.00	1.230	-	-	-0.18	0.264	0.325
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI 2	166300	831.5	1	22.75	24.00	1.334	-	-	0.12	0.107	0.143
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI 2	166300	831.5	1	22.72	24.00	1.343	-	-	0.08	0.110	0.148
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI 2	166300	831.5	1	22.75	24.00	1.334	-	-	-0.17	0.061	0.081
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI 2	166300	831.5	1	22.72	24.00	1.343	-	-	-0.03	0.062	0.083
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI 2	166300	831.5	1	22.75	24.00	1.334	-	-	0.14	0.168	0.224
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI 2	166300	831.5	1	22.72	24.00	1.343	-	-	0.11	0.178	0.239
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI 2	166300	831.5	1	22.75	24.00	1.334	-	-	-0.05	0.086	0.115



FCC SAR Test Report

Report No. : FA530724

06	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI 2	166300	831.5	1	22.72	24.00	1.343	-	-	0.18	0.096	0.129
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	166300	831.5	1	22.52	23.60	1.282	-	-	0.01	0.686	0.880
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	166300	831.5	1	22.48	23.60	1.294	-	-	0.08	0.673	0.871
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	166300	831.5	1	22.29	23.60	1.352	-	-	0.01	0.644	0.871
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	166300	831.5	1	22.52	23.60	1.282	-	-	0.03	0.634	0.813
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	166300	831.5	1	22.48	23.60	1.294	-	-	-0.08	0.643	0.832
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	166300	831.5	1	22.29	23.60	1.352	-	-	-0.08	0.650	0.879
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 2	166300	831.5	1	22.52	23.60	1.282	-	-	0.1	0.369	0.473
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 2	166300	831.5	1	22.48	23.60	1.294	-	-	-0.18	0.386	0.500
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 2	166300	831.5	1	22.52	23.60	1.282	-	-	0.1	0.352	0.451
07	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 2	166300	831.5	1	22.48	23.60	1.294	-	-	0.03	0.348	0.450
	1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI 2	1413	1732.6	1	22.72	24.00	1.343	-	-	0.05	0.333	0.447
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	ECI 2	1413	1732.6	1	22.72	24.00	1.343	-	-	-0.05	0.148	0.199
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI 2	1413	1732.6	1	22.72	24.00	1.343	-	-	0.18	0.175	0.235
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	ECI 2	1413	1732.6	1	22.72	24.00	1.343	-	-	0.14	0.153	0.205
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 2	132322	1745	1	22.93	24.00	1.279	-	-	0.01	0.192	0.246
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 2	132322	1745	1	22.03	23.00	1.250	-	-	-0.01	0.152	0.190
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 2	132322	1745	1	22.93	24.00	1.279	-	-	-0.06	0.091	0.116
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI 2	132322	1745	1	22.03	23.00	1.250	-	-	-0.04	0.076	0.095
08	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 2	132322	1745	1	22.93	24.00	1.279	-	-	-0.09	0.103	0.132
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 2	132322	1745	1	22.03	23.00	1.250	-	-	-0.17	0.080	0.100
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 2	132322	1745	1	22.93	24.00	1.279	-	-	-0.1	0.113	0.145
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI 2	132322	1745	1	22.03	23.00	1.250	-	-	0.18	0.092	0.115
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 2	132322	1745	1	22.91	24.00	1.285	-	-	0.01	0.078	0.100
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	132322	1745	1	18.80	20.00	1.318	-	-	0.01	0.573	0.755
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 2	132322	1745	1	18.69	20.00	1.352	-	-	0.04	0.444	0.600
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	132322	1745	1	18.80	20.00	1.318	-	-	0.06	0.609	0.803
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	132072	1720	1	18.66	20.00	1.361	-	-	0.02	0.644	0.877
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	132572	1770	1	18.72	20.00	1.343	-	-	-0.09	0.554	0.744
09	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 2	132322	1745	1	18.69	20.00	1.352	-	-	-0.08	0.470	0.635
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	ECI 2	132322	1745	1	18.59	20.00	1.384	-	-	0.03	0.457	0.632
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 2	132322	1745	1	18.80	20.00	1.318	-	-	0.18	0.302	0.398
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 2	132322	1745	1	18.69	20.00	1.352	-	-	0.07	0.233	0.315
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 2	132322	1745	1	18.80	20.00	1.318	-	-	-0.15	0.402	0.530
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 2	132322	1745	1	18.69	20.00	1.352	-	-	-0.18	0.308	0.416
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 2	349000	1745	1	23.34	24.00	1.164	-	-	0.08	0.106	0.123
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 2	349000	1745	1	23.32	24.00	1.169	-	-	0.01	0.102	0.119
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI 2	349000	1745	1	23.34	24.00	1.164	-	-	0.03	0.049	0.057
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI 2	349000	1745	1	23.32	24.00	1.169	-	-	-0.08	0.051	0.060
09	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 2	349000	1745	1	23.34	24.00	1.164	-	-	-0.08	0.104	0.121
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 2	349000	1745	1	23.32	24.00	1.169	-	-	0.1	0.102	0.119
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI 2	349000	1745	1	23.34	24.00	1.164	-	-	-0.18	0.060	0.070
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI 2	349000	1745	1	23.32	24.00	1.169	-	-	0.1	0.063	0.074
	FR1 n66 Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 2	349000	1745	1	23.12	24.00	1.225	-	-	-0.07	0.082	0.100
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	349000	1745	1	18.86	19.90	1.271	-	-	0.08	0.687	0.873
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	349000	1745	1	18.69	19.90	1.321	-	-	0.01	0.678	0.896
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	349000	1745	1	18.69	19.90	1.321	-	-	0.03	0.678	0.896
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	349000	1745	1	18.86	19.90	1.271	-	-	-0.08	0.697	0.886
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	349000	1745	1	18.69	19.90	1.321	-	-	-0.02	0.702	0.928
09	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	349000	1745	1	18.69	19.90	1.321	-	-	-0.08	0.697	0.921
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 2	349000	1745	1	18.86	19.90	1.271	-	-	0.1	0.324	0.412
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 2	349000	1745	1	18.69	19.90	1.321	-	-	-0.18	0.347	0.458
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 2	349000	1745	1	18.86	19.90	1.271	-	-	0.12	0.448	0.569
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 2	349000	1745	1	18.69	19.90	1.321	-	-	0.08	0.434	0.573
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	349000	1745	2	18.69	19.90	1.321	-	-	0.06	0.623	0.823



FCC SAR Test Report

Report No. : FA530724

	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	349000	1745	3	18.69	19.90	1.321	-	-	-0.09	0.644	0.851
	FR1 n66 Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	349000	1745	1	18.75	19.90	1.303	-	-	-0.08	0.603	0.786
1900MHz																					
10	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 1	ECI 2	661	1880	1	25.39	26.50	1.291	-	-	-0.06	0.113	0.146
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 1	ECI 2	661	1880	1	25.39	26.50	1.291	-	-	0.03	0.055	0.071
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Left Cheek	0mm	Ant 1	ECI 2	661	1880	1	25.39	26.50	1.291	-	-	-0.05	0.102	0.132
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Left Tilted	0mm	Ant 1	ECI 2	661	1880	1	25.39	26.50	1.291	-	-	0	0.074	0.096
11	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI 2	9400	1880	1	22.70	24.00	1.349	-	-	0.07	0.143	0.193
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	ECI 2	9400	1880	1	22.70	24.00	1.349	-	-	-0.17	0.068	0.092
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI 2	9400	1880	1	22.70	24.00	1.349	-	-	0.17	0.115	0.155
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	ECI 2	9400	1880	1	22.70	24.00	1.349	-	-	-0.05	0.076	0.103
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 2	26340	1880	1	22.93	24.00	1.279	-	-	0.02	0.149	0.191
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 2	26340	1880	1	22.05	23.00	1.245	-	-	-0.13	0.125	0.156
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 2	26340	1880	1	22.93	24.00	1.279	-	-	0.17	0.075	0.096
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI 2	26340	1880	1	22.05	23.00	1.245	-	-	0.06	0.064	0.080
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 2	26340	1880	1	22.93	24.00	1.279	-	-	0	0.094	0.120
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 2	26340	1880	1	22.05	23.00	1.245	-	-	-0.04	0.081	0.101
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 2	26340	1880	1	22.93	24.00	1.279	-	-	-0.15	0.092	0.118
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI 2	26340	1880	1	22.05	23.00	1.245	-	-	0.11	0.071	0.088
	LTE Band 2 Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 2	18900	1880	1	23.07	24.00	1.239	-	-	-0.06	0.085	0.105
12	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	26340	1880	1	18.90	19.50	1.148	-	-	-0.06	0.772	0.886
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	26340	1880	2	18.90	19.50	1.148	-	-	-0.08	0.611	0.702
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	26340	1880	3	18.90	19.50	1.148	-	-	0.13	0.635	0.729
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	26140	1860	1	18.68	19.50	1.208	-	-	0.1	0.723	0.873
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	26590	1905	1	18.77	19.50	1.183	-	-	0.12	0.727	0.860
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 2	26340	1880	1	18.74	19.50	1.191	-	-	0.08	0.623	0.742
	LTE Band 25	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 2	26340	1880	1	18.60	19.50	1.230	-	-	0.14	0.628	0.773
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	26340	1880	1	18.90	19.50	1.148	-	-	0.11	0.758	0.870
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	26140	1860	1	18.68	19.50	1.208	-	-	-0.05	0.712	0.860
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	26590	1905	1	18.77	19.50	1.183	-	-	0.18	0.729	0.862
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 2	26340	1880	1	18.74	19.50	1.191	-	-	0.14	0.609	0.725
	LTE Band 25	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	ECI 2	26340	1880	1	18.60	19.50	1.230	-	-	-0.05	0.604	0.743
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 2	26340	1880	1	18.90	19.50	1.148	-	-	0.01	0.547	0.628
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 2	26340	1880	1	18.74	19.50	1.191	-	-	0.04	0.432	0.515
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 2	26340	1880	1	18.90	19.50	1.148	-	-	0.06	0.652	0.749
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 2	26340	1880	1	18.74	19.50	1.191	-	-	0.13	0.532	0.634
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 2	376000	1880	1	23.28	24.00	1.180	-	-	-0.1	0.109	0.129
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 2	376000	1880	1	23.15	24.00	1.216	-	-	0.01	0.113	0.137
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI 2	376000	1880	1	23.28	24.00	1.180	-	-	-0.15	0.049	0.058
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI 2	376000	1880	1	23.15	24.00	1.216	-	-	0.19	0.062	0.075
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 2	376000	1880	1	23.28	24.00	1.180	-	-	0.07	0.089	0.105
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 2	376000	1880	1	23.15	24.00	1.216	-	-	-0.18	0.088	0.107
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI 2	376000	1880	1	23.28	24.00	1.180	-	-	0.03	0.054	0.064
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI 2	376000	1880	1	23.15	24.00	1.216	-	-	-0.15	0.065	0.079
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	376000	1880	1	19.08	20.10	1.265	-	-	-0.03	0.644	0.814
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	376000	1880	1	19.06	20.10	1.271	-	-	0.14	0.682	0.867
13	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	376000	1880	1	19.05	20.10	1.274	-	-	0.03	0.693	0.883
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	376000	1880	1	19.08	20.10	1.265	-	-	0.11	0.644	0.814
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	376000	1880	1	19.06	20.10	1.271	-	-	-0.05	0.655	0.832
	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	376000	1880	1	19.05	20.10	1.274	-	-	0.18	0.666	0.848
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 2	376000	1880	1	19.08	20.10	1.265	-	-	0.14	0.391	0.495
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 2	376000	1880	1	19.06	20.10	1.271	-	-	-0.17	0.403	0.512
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 2	376000	1880	1	19.08	20.10	1.265	-	-	-0.05	0.480	0.607
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 2	376000	1880	1	19.06	20.10	1.271	-	-	0.01	0.486	0.617
	FR1 n2 Other PA	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	376000	1880	1	19.05	20.10	1.274	-	-	0.05	0.462	0.588
2600MHz																					



FCC SAR Test Report

Report No. : FA530724

	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 2	21100	2535	1	22.84	24.00	1.306	-	-	-0.02	0.225	0.294
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 1	ECI 2	21100+21298	2535+2554.8	1	22.76	24.00	1.330	-	-	0.02	0.128	0.170
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 2	21100	2535	1	21.89	23.00	1.291	-	-	0.1	0.184	0.238
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 2	21100	2535	1	22.84	24.00	1.306	-	-	0.04	0.100	0.131
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI 2	21100	2535	1	21.89	23.00	1.291	-	-	0.13	0.080	0.103
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 2	21100	2535	1	22.84	24.00	1.306	-	-	-0.18	0.123	0.161
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 2	21100	2535	1	21.89	23.00	1.291	-	-	-0.11	0.100	0.129
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 2	21100	2535	1	22.84	24.00	1.306	-	-	-0.16	0.083	0.108
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI 2	21100	2535	1	21.89	23.00	1.291	-	-	-0.15	0.070	0.090
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 2	21100	2535	1	23.06	24.00	1.242	-	-	-0.06	0.187	0.232
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	21100	2535	1	18.89	19.50	1.151	-	-	0.16	0.639	0.735
14	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	20850	2510	1	18.73	19.50	1.194	-	-	-0.05	0.741	0.885
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	21350	2560	1	18.83	19.50	1.167	-	-	-0.1	0.639	0.746
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 2	21100	2535	1	18.78	19.50	1.180	-	-	0.07	0.512	0.604
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 2	21100	2535	1	18.68	19.50	1.208	-	-	0.01	0.509	0.615
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	21100	2535	1	18.89	19.50	1.151	-	-	-0.15	0.630	0.725
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 2	21100	2535	1	18.78	19.50	1.180	-	-	-0.18	0.506	0.597
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 2	21100	2535	1	18.89	19.50	1.151	-	-	0.11	0.321	0.369
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 2	21100	2535	1	18.78	19.50	1.180	-	-	-0.08	0.256	0.302
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 2	21100	2535	1	18.89	19.50	1.151	-	-	0.18	0.388	0.447
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 2	21100	2535	1	18.78	19.50	1.180	-	-	-0.13	0.314	0.371
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	-0.06	0.124	0.155
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 2	40620	2593	1	22.05	23.00	1.245	62.9	1.006	-0.14	0.099	0.124
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	-0.19	0.057	0.071
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI 2	40620	2593	1	22.05	23.00	1.245	62.9	1.006	0.01	0.049	0.061
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0.06	0.071	0.089
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 2	40620	2593	1	22.05	23.00	1.245	62.9	1.006	0.02	0.055	0.069
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0.12	0.066	0.083
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI 2	40620	2593	1	22.05	23.00	1.245	62.9	1.006	-0.16	0.055	0.069
	LTE Band 41 Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 2	40620	2593	1	22.89	24.00	1.291	62.9	1.006	-0.07	0.120	0.156
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	40620	2593	1	21.33	22.50	1.309	62.9	1.006	0.06	0.582	0.767
15	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	39750	2506	1	21.24	22.50	1.337	62.9	1.006	-0.06	0.669	0.900
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	40185	2549.5	1	21.17	22.50	1.358	62.9	1.006	-0.08	0.536	0.732
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	41055	2636.5	1	21.24	22.50	1.337	62.9	1.006	0.13	0.493	0.663
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	41490	2680	1	21.18	22.50	1.355	62.9	1.006	0.12	0.421	0.574
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 2	40620	2593	1	21.22	22.50	1.343	62.9	1.006	0.03	0.464	0.627
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 2	39750	2506	1	21.10	22.50	1.380	62.9	1.006	0.16	0.517	0.718
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 2	40185	2549.5	1	21.04	22.50	1.400	62.9	1.006	-0.1	0.442	0.622
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 2	41055	2636.5	1	21.09	22.50	1.384	62.9	1.006	0.07	0.388	0.540
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 2	41490	2680	1	21.06	22.50	1.393	62.9	1.006	0.18	0.336	0.471
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 2	40620	2593	1	21.02	22.50	1.406	62.9	1.006	-0.1	0.413	0.584
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	40620	2593	1	21.33	22.50	1.309	62.9	1.006	0.01	0.565	0.744
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	39750	2506	1	21.24	22.50	1.337	62.9	1.006	0.19	0.645	0.867
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	40185	2549.5	1	21.17	22.50	1.358	62.9	1.006	0.07	0.550	0.752
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	41055	2636.5	1	21.24	22.50	1.337	62.9	1.006	-0.18	0.584	0.785
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	41490	2680	1	21.18	22.50	1.355	62.9	1.006	0.03	0.498	0.679
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 2	40620	2593	1	21.22	22.50	1.343	62.9	1.006	-0.15	0.475	0.642
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 2	39750	2506	1	21.10	22.50	1.380	62.9	1.006	0.11	0.479	0.665
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 2	40185	2549.5	1	21.04	22.50	1.400	62.9	1.006	-0.08	0.422	0.594
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 2	41055	2636.5	1	21.09	22.50	1.384	62.9	1.006	-0.17	0.442	0.615
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 2	41490	2680	1	21.06	22.50	1.393	62.9	1.006	-0.08	0.395	0.554
	LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	ECI 2	40620	2593	1	21.02	22.50	1.406	62.9	1.006	-0.04	0.434	0.614
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 2	40620	2593	1	21.33	22.50	1.309	62.9	1.006	-0.08	0.306	0.403
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 2	40620	2593	1	21.22	22.50	1.343	62.9	1.006	-0.13	0.245	0.331
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 2	40620	2593	1	21.33	22.50	1.309	62.9	1.006	-0.11	0.386	0.508



FCC SAR Test Report

Report No. : FA530724

	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 2	40620	2593	1	21.22	22.50	1.343	62.9	1.006	-0.09	0.306	0.413
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 2	507000	2535	1	23.08	24.00	1.236	-	-	-0.15	0.187	0.231
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 2	507000	2535	1	23.06	24.00	1.242	-	-	0.11	0.179	0.222
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI 2	507000	2535	1	23.08	24.00	1.236	-	-	-0.08	0.091	0.112
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI 2	507000	2535	1	23.06	24.00	1.242	-	-	-0.17	0.087	0.108
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 2	507000	2535	1	23.08	24.00	1.236	-	-	-0.08	0.119	0.147
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 2	507000	2535	1	23.06	24.00	1.242	-	-	-0.04	0.116	0.144
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI 2	507000	2535	1	23.08	24.00	1.236	-	-	-0.08	0.064	0.079
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI 2	507000	2535	1	23.06	24.00	1.242	-	-	0.17	0.067	0.083
	FR1 n7 Other PA	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 2	507000	2535	1	23.13	24.00	1.222	-	-	0.03	0.170	0.208
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	507000	2535	1	19.16	20.60	1.393	-	-	0.07	0.629	0.876
16	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	507000	2535	1	19.09	20.60	1.416	-	-	0.05	0.640	0.906
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	507000	2535	2	19.09	20.60	1.416	-	-	0.12	0.589	0.834
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	507000	2535	3	19.09	20.60	1.416	-	-	0.03	0.613	0.868
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	507000	2535	1	18.85	20.60	1.496	-	-	-0.18	0.590	0.883
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	507000	2535	1	19.16	20.60	1.393	-	-	0.03	0.562	0.783
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 2	507000	2535	1	19.09	20.60	1.416	-	-	-0.15	0.562	0.796
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 2	507000	2535	1	19.16	20.60	1.393	-	-	0.11	0.299	0.417
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 2	507000	2535	1	19.09	20.60	1.416	-	-	-0.08	0.321	0.454
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 2	507000	2535	1	19.16	20.60	1.393	-	-	-0.08	0.332	0.463
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 2	507000	2535	1	19.09	20.60	1.416	-	-	-0.04	0.384	0.544
	FR1 n7 Other PA	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 2	507000	2535	1	19.16	20.60	1.393	-	-	0.05	0.497	0.692
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	ECI 2	518598	2592.99	1	23.15	24.00	1.216	-	-	0.13	0.186	0.226
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	ECI 2	518598	2592.99	1	23.15	24.00	1.216	-	-	0.12	0.183	0.223
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	ECI 2	518598	2592.99	1	23.15	24.00	1.216	-	-	0.03	0.088	0.107
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	ECI 2	518598	2592.99	1	23.15	24.00	1.216	-	-	0.18	0.093	0.113
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	ECI 2	518598	2592.99	1	23.15	24.00	1.216	-	-	0.16	0.130	0.158
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	ECI 2	518598	2592.99	1	23.15	24.00	1.216	-	-	-0.1	0.127	0.154
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	ECI 2	518598	2592.99	1	23.15	24.00	1.216	-	-	0.07	0.069	0.084
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	ECI 2	518598	2592.99	1	23.15	24.00	1.216	-	-	0.18	0.079	0.096
17	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI 2	518598	2592.99	1	19.49	20.90	1.384	-	-	0.01	0.637	0.881
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI 2	518598	2592.99	1	19.40	20.90	1.413	-	-	0.17	0.592	0.836
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI 2	518598	2592.99	1	19.35	20.90	1.429	-	-	0.18	0.592	0.846
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	ECI 2	518598	2592.99	1	19.49	20.90	1.384	-	-	-0.04	0.629	0.870
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	ECI 2	518598	2592.99	1	19.40	20.90	1.413	-	-	-0.08	0.614	0.867
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	ECI 2	518598	2592.99	1	19.35	20.90	1.429	-	-	-0.13	0.614	0.877
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	ECI 2	518598	2592.99	1	19.49	20.90	1.384	-	-	-0.13	0.362	0.501
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	ECI 2	518598	2592.99	1	19.40	20.90	1.413	-	-	0.06	0.373	0.527
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	ECI 2	518598	2592.99	1	19.49	20.90	1.384	-	-	-0.03	0.436	0.603
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	ECI 2	518598	2592.99	1	19.40	20.90	1.413	-	-	0.08	0.428	0.605
3500MHz																					
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 2	42590	3500	1	17.16	18.10	1.242	62.9	1.006	-0.03	0.401	0.501
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 2	42590	3500	1	17.02	18.10	1.282	62.9	1.006	0.05	0.324	0.418
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI 2	42590	3500	1	17.16	18.10	1.242	62.9	1.006	-0.16	0.495	0.618
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI 2	42190	3460	1	16.99	18.10	1.291	62.9	1.006	-0.02	0.429	0.557
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI 2	42990	3540	1	17.05	18.10	1.274	62.9	1.006	0.15	0.566	0.725
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI 2	42590	3500	1	17.02	18.10	1.282	62.9	1.006	-0.09	0.398	0.513
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	ECI 2	42590	3500	1	16.93	18.10	1.309	62.9	1.006	-0.08	0.404	0.532
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 2	42590	3500	1	17.16	18.10	1.242	62.9	1.006	0.16	0.496	0.620
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 2	42190	3460	1	16.99	18.10	1.291	62.9	1.006	0.05	0.441	0.573
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 2	42990	3540	1	17.05	18.10	1.274	62.9	1.006	0.05	0.475	0.609
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 2	42590	3500	1	17.02	18.10	1.282	62.9	1.006	-0.03	0.404	0.521
	LTE Band 42	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 5	ECI 2	42590	3500	1	16.93	18.10	1.309	62.9	1.006	0.07	0.410	0.540



FCC SAR Test Report

Report No. : FA530724

	Part 27Q																				
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 2	42590	3500	1	17.16	18.10	1.242	62.9	1.006	0.16	0.592	0.739
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 2	42190	3460	1	16.99	18.10	1.291	62.9	1.006	0.13	0.518	0.673
18	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 2	42990	3540	1	17.05	18.10	1.274	62.9	1.006	-0.02	0.694	0.889
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI 2	42590	3500	1	17.02	18.10	1.282	62.9	1.006	-0.18	0.484	0.624
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI 2	42190	3460	1	16.93	18.10	1.309	62.9	1.006	0.02	0.427	0.562
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI 2	42990	3540	1	16.94	18.10	1.306	62.9	1.006	0.16	0.557	0.732
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 5	ECI 2	42590	3500	1	16.93	18.10	1.309	62.9	1.006	-0.03	0.492	0.648
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 2	42990	3540	2	17.05	18.10	1.274	62.9	1.006	0.18	0.645	0.826
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 2	42990	3540	3	17.05	18.10	1.274	62.9	1.006	0.16	0.611	0.783
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI 2	656000	3840	1	15.58	16.40	1.208	-	-	0.03	0.545	0.658
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI 2	656000	3840	1	15.52	16.40	1.225	-	-	0.18	0.536	0.656
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI 2	656000	3840	1	15.58	16.40	1.208	-	-	-0.1	0.695	0.839
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI 2	656000	3840	1	15.52	16.40	1.225	-	-	0.07	0.687	0.841
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI 2	656000	3840	1	15.49	16.40	1.233	-	-	0.18	0.579	0.714
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	ECI 2	656000	3840	1	15.58	16.40	1.208	-	-	-0.1	0.450	0.544
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	ECI 2	656000	3840	1	15.52	16.40	1.225	-	-	0.01	0.508	0.622
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	ECI 2	656000	3840	1	15.58	16.40	1.208	-	-	0.01	0.639	0.772
19	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	ECI 2	656000	3840	1	15.52	16.40	1.225	-	-	0.01	0.729	0.893
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI 2	656000	3840	1	18.69	19.50	1.205	-	-	0.18	0.162	0.195
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI 2	656000	3840	1	18.49	19.50	1.262	-	-	-0.04	0.137	0.173
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	ECI 2	656000	3840	1	18.69	19.50	1.205	-	-	-0.08	0.121	0.146
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	ECI 2	656000	3840	1	18.49	19.50	1.262	-	-	-0.13	0.103	0.130
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	ECI 2	656000	3840	1	18.69	19.50	1.205	-	-	-0.13	0.058	0.070
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	ECI 2	656000	3840	1	18.49	19.50	1.262	-	-	0.06	0.057	0.072
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	ECI 2	656000	3840	1	18.69	19.50	1.205	-	-	-0.03	0.044	0.053
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	ECI 2	656000	3840	1	18.49	19.50	1.262	-	-	-0.03	0.051	0.064
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 2	656000	3840	1	14.82	15.90	1.282	-	-	-0.17	0.109	0.140
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 2	656000	3840	1	14.78	15.90	1.294	-	-	0.04	0.103	0.133
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 2	656000	3840	1	14.82	15.90	1.282	-	-	-0.08	0.117	0.150
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 2	656000	3840	1	14.78	15.90	1.294	-	-	0.05	0.118	0.153
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 2	656000	3840	1	14.82	15.90	1.282	-	-	0.07	0.468	0.600
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 2	656000	3840	1	14.78	15.90	1.294	-	-	0.07	0.470	0.608
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 2	656000	3840	1	14.82	15.90	1.282	-	-	-0.08	0.184	0.236
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 2	656000	3840	1	14.78	15.90	1.294	-	-	0.13	0.169	0.219
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 2	656000	3840	2	14.78	15.90	1.294	-	-	-0.1	0.411	0.532
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 2	656000	3840	3	14.78	15.90	1.294	-	-	0.07	0.423	0.547
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 2	656000	3840	1	19.26	20.50	1.330	-	-	0.08	0.132	0.176
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 2	656000	3840	1	19.14	20.50	1.368	-	-	-0.07	0.118	0.161
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 2	656000	3840	1	19.26	20.50	1.330	-	-	0.05	0.055	0.073
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 2	656000	3840	1	19.14	20.50	1.368	-	-	-0.11	0.044	0.060
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 2	656000	3840	1	19.26	20.50	1.330	-	-	-0.12	0.078	0.104
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 2	656000	3840	1	19.14	20.50	1.368	-	-	0.03	0.067	0.092
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 2	656000	3840	1	19.26	20.50	1.330	-	-	-0.16	0.103	0.137
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 2	656000	3840	1	19.14	20.50	1.368	-	-	-0.02	0.069	0.094



FCC SAR Test Report

Report No. : FA530724

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
WIFI/BT																	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 6	Standalone	6	2437	1	15.81	17.00	1.315	99.14	1.009	0.07	0.299	0.397
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 6	Standalone	6	2437	1	15.81	17.00	1.315	99.14	1.009	0	0.318	0.422
20	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	6	2437	1	15.81	17.00	1.315	99.14	1.009	-0.05	0.902	1.197
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	1	2412	1	15.79	17.00	1.321	99.14	1.009	0.01	0.840	1.120
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	11	2462	1	15.73	17.00	1.340	99.14	1.009	-0.01	0.823	1.112
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Standalone	6	2437	1	15.81	17.00	1.315	99.14	1.009	-0.06	0.643	0.853
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Standalone	1	2412	1	15.79	17.00	1.321	99.14	1.009	-0.04	0.581	0.775
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Standalone	11	2462	1	15.73	17.00	1.340	99.14	1.009	-0.09	0.598	0.808
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	6	2437	2	15.81	17.00	1.315	99.14	1.009	0.18	0.804	1.067
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	6	2437	3	15.81	17.00	1.315	99.14	1.009	-0.1	0.823	1.092
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 6	Simultaneous	6	2437	1	10.72	12.00	1.343	99.14	1.009	0	0.123	0.167
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 6	Simultaneous	6	2437	1	10.72	12.00	1.343	99.14	1.009	-0.13	0.141	0.191
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Simultaneous	6	2437	1	10.72	12.00	1.343	99.14	1.009	-0.01	0.309	0.419
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Simultaneous	6	2437	1	10.72	12.00	1.343	99.14	1.009	-0.09	0.164	0.222
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 6	Standalone	78	2480	1	12.62	13.50	1.225	76.94	1.083	-0.17	0.056	0.074
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 6	Standalone	78	2480	1	12.62	13.50	1.225	76.94	1.083	-0.1	0.064	0.085
21	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Standalone	78	2480	1	12.62	13.50	1.225	76.94	1.083	0.08	0.182	0.241
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 6	Standalone	78	2480	1	12.62	13.50	1.225	76.94	1.083	0.18	0.126	0.167
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	Standalone	58	5290	1	13.53	14.50	1.250	87.5	1.143	-0.17	0.342	0.489
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	Standalone	58	5290	1	13.53	14.50	1.250	87.5	1.143	-0.04	0.428	0.612
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	Standalone	58	5290	1	13.53	14.50	1.250	87.5	1.143	-0.05	0.703	1.005
22	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Standalone	58	5290	1	13.53	14.50	1.250	87.5	1.143	-0.05	0.776	1.109
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Standalone	58	5290	2	13.53	14.50	1.250	87.5	1.143	0.01	0.692	0.989
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Standalone	58	5290	3	13.53	14.50	1.250	87.5	1.143	-0.15	0.600	0.857
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	Simultaneous	58	5290	1	8.74	10.00	1.337	87.5	1.143	0.05	0.101	0.154
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	Simultaneous	58	5290	1	8.74	10.00	1.337	87.5	1.143	0.02	0.151	0.231
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	Simultaneous	58	5290	1	8.74	10.00	1.337	87.5	1.143	-0.13	0.245	0.374
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Simultaneous	58	5290	1	8.74	10.00	1.337	87.5	1.143	0.17	0.209	0.319
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	Standalone	122	5610	1	14.37	16.00	1.455	87.5	1.143	0	0.276	0.459
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	Standalone	122	5610	1	14.37	16.00	1.455	87.5	1.143	-0.09	0.353	0.587
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	Standalone	122	5610	1	14.37	16.00	1.455	87.5	1.143	-0.13	0.623	1.036
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	Standalone	106	5530	1	14.16	16.00	1.528	87.5	1.143	0.17	0.631	1.102
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	Standalone	138	5690	1	14.16	16.00	1.528	87.5	1.143	0.06	0.507	0.885
23	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Standalone	122	5610	1	14.37	16.00	1.455	87.5	1.143	-0.04	0.716	1.191
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Standalone	106	5530	1	14.16	16.00	1.528	87.5	1.143	0	0.642	1.121
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Standalone	122	5610	2	14.37	16.00	1.455	87.5	1.143	0.19	0.623	1.036
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Standalone	122	5610	3	14.37	16.00	1.455	87.5	1.143	0.07	0.644	1.071
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Standalone	138	5690	1	14.16	16.00	1.528	87.5	1.143	-0.04	0.553	0.966
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	Simultaneous	122	5610	1	10.39	12.00	1.449	87.5	1.143	0.08	0.091	0.151
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	Simultaneous	122	5610	1	10.39	12.00	1.449	87.5	1.143	0.01	0.136	0.225
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	Simultaneous	106	5530	1	10.27	12.00	1.489	87.5	1.143	0.03	0.231	0.393
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Simultaneous	122	5610	1	10.39	12.00	1.449	87.5	1.143	-0.08	0.186	0.308
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	Standalone	155	5775	1	13.61	15.50	1.545	87.5	1.143	0.1	0.403	0.712
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	Standalone	155	5775	1	13.61	15.50	1.545	87.5	1.143	0.04	0.503	0.888
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	Standalone	155	5775	1	13.61	15.50	1.545	87.5	1.143	0.13	0.615	1.086
24	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Standalone	155	5775	1	13.61	15.50	1.545	87.5	1.143	0.03	0.670	1.183
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Standalone	155	5775	2	13.61	15.50	1.545	87.5	1.143	-0.18	0.589	1.040
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Standalone	155	5775	3	13.61	15.50	1.545	87.5	1.143	-0.15	0.611	1.079
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	Simultaneous	155	5775	1	8.69	10.50	1.517	87.5	1.143	-0.08	0.091	0.158
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	Simultaneous	155	5775	1	8.69	10.50	1.517	87.5	1.143	0.1	0.164	0.284
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	Simultaneous	155	5775	1	8.69	10.50	1.517	87.5	1.143	-0.18	0.203	0.352
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Simultaneous	155	5775	1	8.69	10.50	1.517	87.5	1.143	0.1	0.178	0.309



16.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
750MHz																					
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	23095	707.5	1	22.61	24.00	1.377	-	-	0.01	0.620	0.854
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI 7	23095	707.5	1	21.67	23.00	1.358	-	-	-0.01	0.482	0.655
	LTE Band 12	10M	QPSK	50	0	-	Front	5mm	Ant 0	ECI 7	23095	707.5	1	21.60	23.00	1.380	-	-	0.04	0.537	0.741
25	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	23095	707.5	1	22.61	24.00	1.377	-	-	0.01	0.834	1.149
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI 7	23095	707.5	1	21.67	23.00	1.358	-	-	-0.06	0.670	0.910
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	23095	707.5	1	21.60	23.00	1.380	-	-	-0.04	0.601	0.830
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	23095	707.5	1	22.61	24.00	1.377	-	-	-0.09	0.705	0.971
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	ECI 7	23095	707.5	1	21.67	23.00	1.358	-	-	-0.17	0.572	0.777
	LTE Band 12	10M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI 7	23095	707.5	1	21.60	23.00	1.380	-	-	-0.1	0.618	0.853
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	23095	707.5	1	22.61	24.00	1.377	-	-	0.18	0.134	0.185
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	ECI 7	23095	707.5	1	21.67	23.00	1.358	-	-	-0.17	0.109	0.148
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	23095	707.5	1	22.61	24.00	1.377	-	-	-0.04	0.673	0.927
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	ECI 7	23095	707.5	1	21.67	23.00	1.358	-	-	-0.05	0.539	0.732
	LTE Band 12	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	23095	707.5	1	21.60	23.00	1.380	-	-	0.03	0.579	0.799
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	23230	782	1	22.86	24.00	1.300	-	-	-0.15	0.674	0.876
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI 7	23230	782	1	21.91	23.00	1.285	-	-	0.11	0.527	0.677
	LTE Band 13	10M	QPSK	50	0	-	Front	5mm	Ant 0	ECI 7	23230	782	1	21.83	23.00	1.309	-	-	-0.02	0.516	0.676
26	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	23230	782	1	22.86	24.00	1.300	-	-	0.01	0.961	1.249
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI 7	23230	782	1	21.91	23.00	1.285	-	-	0.1	0.758	0.974
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	23230	782	1	21.83	23.00	1.309	-	-	0.04	0.705	0.923
	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	23230	782	1	22.86	24.00	1.300	-	-	0.13	0.778	1.012
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	ECI 7	23230	782	1	21.91	23.00	1.285	-	-	-0.18	0.645	0.829
	LTE Band 13	10M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI 7	23230	782	1	21.83	23.00	1.309	-	-	-0.11	0.712	0.932
	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	23230	782	1	22.86	24.00	1.300	-	-	-0.16	0.181	0.235
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	ECI 7	23230	782	1	21.91	23.00	1.285	-	-	-0.15	0.142	0.183
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	23230	782	1	22.86	24.00	1.300	-	-	-0.06	0.747	0.971
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	ECI 7	23230	782	1	21.91	23.00	1.285	-	-	-0.14	0.594	0.763
	LTE Band 13	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	23230	782	1	21.83	23.00	1.309	-	-	-0.19	0.584	0.765
835MHz																					
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	ECI 7	189	836.4	1	27.16	28.50	1.361	-	-	0.08	0.708	0.964
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	ECI 7	128	824.2	1	27.25	28.50	1.334	-	-	-0.18	0.654	0.872
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	ECI 7	251	848.8	1	27.15	28.50	1.365	-	-	-0.03	0.644	0.879
27	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	ECI 7	189	836.4	1	27.16	28.50	1.361	-	-	-0.03	1.050	1.430
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	ECI 7	128	824.2	1	27.25	28.50	1.334	-	-	-0.04	0.939	1.252
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	ECI 7	251	848.8	1	27.15	28.50	1.365	-	-	-0.09	0.961	1.311
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	ECI 7	189	836.4	1	27.16	28.50	1.361	-	-	0.18	0.742	1.010
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	ECI 7	128	824.2	1	27.25	28.50	1.334	-	-	0.11	0.654	0.872
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	ECI 7	251	848.8	1	27.15	28.50	1.365	-	-	0.07	0.640	0.873
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	ECI 7	189	836.4	1	27.16	28.50	1.361	-	-	-0.03	0.147	0.200
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	ECI 7	189	836.4	1	27.16	28.50	1.361	-	-	0.09	0.747	1.017
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	ECI 7	128	824.2	1	27.25	28.50	1.334	-	-	-0.08	0.653	0.871
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	ECI 7	251	848.8	1	27.15	28.50	1.365	-	-	-0.05	0.562	0.767
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 7	4182	836.4	1	22.58	23.40	1.208	-	-	0.08	0.682	0.824
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 7	4132	826.4	1	22.53	23.40	1.222	-	-	0.01	0.711	0.869
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 7	4233	846.6	1	22.49	23.40	1.233	-	-	0.03	0.701	0.864
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	4182	836.4	1	22.58	23.40	1.208	-	-	-0.08	0.946	1.143
28	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	4132	826.4	1	22.53	23.40	1.222	-	-	-0.05	1.030	1.258
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	4233	846.6	1	22.49	23.40	1.233	-	-	-0.08	0.986	1.216
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	ECI 7	4182	836.4	1	22.58	23.40	1.208	-	-	0.1	0.782	0.945



FCC SAR Test Report

Report No. : FA530724

	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	ECI 7	4132	826.4	1	22.53	23.40	1.222	-	-	-0.18	0.817	0.998
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	ECI 7	4233	846.6	1	22.49	23.40	1.233	-	-	0.1	0.826	1.019
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	ECI 7	4182	836.4	1	22.58	23.40	1.208	-	-	0.12	0.152	0.184
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	4182	836.4	1	22.58	23.40	1.208	-	-	0.08	0.678	0.819
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	4132	826.4	1	22.53	23.40	1.222	-	-	-0.17	0.683	0.834
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	4233	846.6	1	22.49	23.40	1.233	-	-	-0.03	0.620	0.765
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	26865	831.5	1	22.65	24.00	1.365	-	-	0.01	0.698	0.952
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	ECI 7	26865	831.5	1	21.64	23.00	1.368	-	-	0.06	0.546	0.747
	LTE Band 26	15M	QPSK	75	0	-	Front	5mm	Ant 0	ECI 7	26865	831.5	1	21.73	23.00	1.340	-	-	0.02	0.572	0.766
29	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	26865	831.5	1	22.65	24.00	1.365	-	-	-0.02	0.999	1.363
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	ECI 7	26865	831.5	1	21.64	23.00	1.368	-	-	0.12	0.790	1.081
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	ECI 7	26865	831.5	1	21.73	23.00	1.340	-	-	-0.16	0.803	1.076
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	26865	831.5	1	22.65	24.00	1.365	-	-	-0.12	0.712	0.972
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	ECI 7	26865	831.5	1	21.64	23.00	1.368	-	-	0.07	0.561	0.767
	LTE Band 26	15M	QPSK	75	0	-	Left Side	5mm	Ant 0	ECI 7	26865	831.5	1	21.73	23.00	1.340	-	-	-0.02	0.548	0.734
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	26865	831.5	1	22.65	24.00	1.365	-	-	-0.05	0.147	0.201
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 0	ECI 7	26865	831.5	1	21.64	23.00	1.368	-	-	-0.13	0.116	0.159
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	26865	831.5	1	22.65	24.00	1.365	-	-	0.08	0.786	1.073
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 0	ECI 7	26865	831.5	1	21.64	23.00	1.368	-	-	0.16	0.642	0.878
	LTE Band 26	15M	QPSK	75	0	-	Bottom Side	5mm	Ant 0	ECI 7	26865	831.5	1	21.73	23.00	1.340	-	-	0.01	0.639	0.856
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	26865	831.5	1	21.07	22.00	1.239	-	-	0.17	0.280	0.347
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 4	ECI 7	26865	831.5	1	21.03	22.00	1.250	-	-	0.02	0.227	0.284
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	26865	831.5	1	21.07	22.00	1.239	-	-	0.03	0.411	0.509
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 4	ECI 7	26865	831.5	1	21.03	22.00	1.250	-	-	0.03	0.388	0.485
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	26865	831.5	1	21.07	22.00	1.239	-	-	-0.11	0.417	0.517
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 4	ECI 7	26865	831.5	1	21.03	22.00	1.250	-	-	-0.05	0.308	0.385
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	26865	831.5	1	21.07	22.00	1.239	-	-	-0.08	0.074	0.092
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 4	ECI 7	26865	831.5	1	21.03	22.00	1.250	-	-	0.02	0.056	0.070
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	26865	831.5	1	21.07	22.00	1.239	-	-	-0.04	0.505	0.626
	LTE Band 26	15M	QPSK	36	0	-	Top Side	5mm	Ant 4	ECI 7	26865	831.5	1	21.03	22.00	1.250	-	-	-0.14	0.393	0.491
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	ECI 7	166300	831.5	1	22.75	23.50	1.189	-	-	-0.13	0.493	0.586
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	ECI 7	166300	831.5	1	22.72	23.50	1.197	-	-	-0.01	0.492	0.589
30	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	166300	831.5	1	22.75	23.50	1.189	-	-	-0.03	1.080	1.284
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	166300	831.5	1	22.72	23.50	1.197	-	-	-0.09	0.700	0.838
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	166300	831.5	1	22.70	23.50	1.202	-	-	0.05	0.676	0.813
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	ECI 7	166300	831.5	1	22.75	23.50	1.189	-	-	0.02	0.489	0.581
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 0	ECI 7	166300	831.5	1	22.72	23.50	1.197	-	-	-0.13	0.522	0.625
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	ECI 7	166300	831.5	1	22.75	23.50	1.189	-	-	0.17	0.101	0.120
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 0	ECI 7	166300	831.5	1	22.72	23.50	1.197	-	-	0.06	0.111	0.133
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	ECI 7	166300	831.5	1	22.75	23.50	1.189	-	-	0	0.525	0.624
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	ECI 7	166300	831.5	1	22.72	23.50	1.197	-	-	-0.04	0.550	0.658
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	166300	831.5	1	20.96	22.00	1.271	-	-	0.08	0.223	0.283
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	166300	831.5	1	20.88	22.00	1.294	-	-	0.01	0.220	0.285
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	166300	831.5	1	20.96	22.00	1.271	-	-	0.03	0.368	0.468
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	166300	831.5	1	20.88	22.00	1.294	-	-	-0.08	0.381	0.493
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	166300	831.5	1	20.96	22.00	1.271	-	-	0.1	0.222	0.282
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	166300	831.5	1	20.88	22.00	1.294	-	-	-0.18	0.303	0.392
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	166300	831.5	1	20.96	22.00	1.271	-	-	0.1	0.061	0.078
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	166300	831.5	1	20.88	22.00	1.294	-	-	0.12	0.060	0.078
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	166300	831.5	1	20.96	22.00	1.271	-	-	0.08	0.422	0.536
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	166300	831.5	1	20.88	22.00	1.294	-	-	-0.07	0.487	0.630
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 7	1413	1732.6	1	18.02	19.00	1.253	-	-	-0.03	0.406	0.509
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 7	1413	1732.6	1	18.02	19.00	1.253	-	-	0.11	0.409	0.513
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	ECI 7	1413	1732.6	1	18.02	19.00	1.253	-	-	0.14	0.115	0.144
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	ECI 7	1413	1732.6	1	18.02	19.00	1.253	-	-	-0.17	0.120	0.150



FCC SAR Test Report

Report No. : FA530724

31	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	ECI 7	1413	1732.6	1	18.02	19.00	1.253	-	-	-0.01	0.611	0.766
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	132322	1745	1	18.65	19.70	1.274	-	-	-0.09	0.570	0.726
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	132322	1745	1	18.61	19.70	1.285	-	-	0.12	0.436	0.560
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	132322	1745	1	18.65	19.70	1.274	-	-	0.18	0.436	0.555
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	132322	1745	1	18.61	19.70	1.285	-	-	-0.1	0.427	0.549
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	132322	1745	1	18.65	19.70	1.274	-	-	0.19	0.139	0.177
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI 7	132322	1745	1	18.61	19.70	1.285	-	-	0.07	0.104	0.134
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	132322	1745	1	18.65	19.70	1.274	-	-	-0.18	0.154	0.196
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI 7	132322	1745	1	18.61	19.70	1.285	-	-	0.03	0.120	0.154
32	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	132322	1745	1	18.65	19.70	1.274	-	-	-0.09	0.786	1.001
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	132072	1720	1	18.54	19.70	1.306	-	-	-0.15	0.701	0.916
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	132572	1770	1	18.56	19.70	1.300	-	-	-0.15	0.661	0.859
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	132322	1745	1	18.61	19.70	1.285	-	-	0.11	0.564	0.725
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	ECI 7	132322	1745	1	18.60	19.70	1.288	-	-	-0.08	0.561	0.723
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	132322	1745	1	18.65	19.70	1.274	-	-	0.03	0.711	0.905
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	132322	1745	1	16.61	17.50	1.227	-	-	-0.09	0.194	0.238
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 4	ECI 7	132322	1745	1	16.59	17.50	1.233	-	-	-0.08	0.146	0.180
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	132322	1745	1	16.61	17.50	1.227	-	-	-0.03	0.466	0.572
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 7	132322	1745	1	16.59	17.50	1.233	-	-	0.07	0.357	0.440
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	132322	1745	1	16.61	17.50	1.227	-	-	0.02	0.120	0.147
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	ECI 7	132322	1745	1	16.59	17.50	1.233	-	-	0.07	0.096	0.118
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	132322	1745	1	16.61	17.50	1.227	-	-	0.01	0.030	0.037
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	ECI 7	132322	1745	1	16.59	17.50	1.233	-	-	-0.01	0.024	0.030
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	132322	1745	1	16.61	17.50	1.227	-	-	-0.06	0.497	0.610
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	132322	1745	1	16.59	17.50	1.233	-	-	-0.17	0.306	0.377
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	349000	1745	1	18.90	19.90	1.259	-	-	-0.18	0.763	0.961
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	349000	1745	1	18.85	19.90	1.274	-	-	-0.11	0.769	0.979
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	349000	1745	1	18.80	19.90	1.288	-	-	-0.16	0.708	0.912
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	349000	1745	1	18.90	19.90	1.259	-	-	-0.15	0.787	0.991
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	349000	1745	1	18.85	19.90	1.274	-	-	-0.06	0.732	0.932
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	349000	1745	1	18.80	19.90	1.288	-	-	-0.14	0.781	1.006
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	349000	1745	1	18.90	19.90	1.259	-	-	-0.19	0.195	0.245
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	349000	1745	1	18.85	19.90	1.274	-	-	0.01	0.225	0.287
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	349000	1745	1	18.90	19.90	1.259	-	-	0.06	0.205	0.258
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	349000	1745	1	18.85	19.90	1.274	-	-	0.02	0.247	0.315
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	1	18.90	19.90	1.259	-	-	0.12	1.110	1.397
33	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	1	18.85	19.90	1.274	-	-	0.01	1.130	1.439
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	2	18.85	19.90	1.274	-	-	0.08	1.060	1.350
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	3	18.85	19.90	1.274	-	-	0.01	1.010	1.286
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	1	18.80	19.90	1.288	-	-	-0.16	1.100	1.417
	FR1 n66 Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	1	18.85	19.90	1.274	-	-	0.03	1.030	1.312
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	349000	1745	1	16.58	17.70	1.294	-	-	-0.16	0.195	0.252
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	349000	1745	1	16.47	17.70	1.327	-	-	0.1	0.183	0.243
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	349000	1745	1	16.54	17.70	1.306	-	-	-0.04	0.179	0.234
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	349000	1745	1	16.58	17.70	1.294	-	-	-0.01	0.427	0.553
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	349000	1745	1	16.47	17.70	1.327	-	-	0	0.417	0.554
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	349000	1745	1	16.54	17.70	1.306	-	-	-0.11	0.399	0.521
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	349000	1745	1	16.58	17.70	1.294	-	-	-0.06	0.126	0.163
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	349000	1745	1	16.47	17.70	1.327	-	-	-0.15	0.120	0.159
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	349000	1745	1	16.58	17.70	1.294	-	-	0.03	0.023	0.030
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	349000	1745	1	16.47	17.70	1.327	-	-	-0.13	0.028	0.037
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	349000	1745	1	16.58	17.70	1.294	-	-	0.16	0.458	0.593
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	349000	1745	1	16.47	17.70	1.327	-	-	-0.01	0.477	0.633
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	349000	1745	1	16.54	17.70	1.306	-	-	-0.15	0.473	0.618
	FR1 n66 Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	349000	1745	1	16.55	17.70	1.303	-	-	0.03	0.425	0.554
1900MHz																					



FCC SAR Test Report

Report No. : FA530724

	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	ECI 7	661	1880	1	25.39	26.50	1.291	-	-	-0.18	0.915	1.181
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	ECI 7	512	1850.2	1	25.39	26.50	1.291	-	-	-0.07	0.974	1.258
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	ECI 7	810	1909.8	1	25.36	26.50	1.300	-	-	0.11	0.889	1.156
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	ECI 7	661	1880	1	25.39	26.50	1.291	-	-	-0.08	0.847	1.094
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	ECI 7	512	1850.2	1	25.39	26.50	1.291	-	-	-0.1	0.940	1.214
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	ECI 7	810	1909.8	1	25.36	26.50	1.300	-	-	-0.01	0.840	1.092
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Left Side	5mm	Ant 1	ECI 7	661	1880	1	25.39	26.50	1.291	-	-	-0.09	0.340	0.439
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Side	5mm	Ant 1	ECI 7	661	1880	1	25.39	26.50	1.291	-	-	-0.06	0.262	0.338
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 1	ECI 7	661	1880	1	25.39	26.50	1.291	-	-	-0.17	0.779	1.006
34	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 1	ECI 7	512	1850.2	1	25.39	26.50	1.291	-	-	0.01	0.991	1.280
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 1	ECI 7	810	1909.8	1	25.36	26.50	1.300	-	-	-0.01	0.795	1.034
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 7	9400	1880	1	20.08	21.00	1.236	-	-	0.05	0.603	0.745
35	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 7	9262	1852.4	1	19.98	21.00	1.265	-	-	-0.06	0.664	0.840
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 7	9538	1907.6	1	20.01	21.00	1.256	-	-	-0.03	0.572	0.718
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 7	9400	1880	1	20.08	21.00	1.236	-	-	0.17	0.594	0.734
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 7	9262	1852.4	1	19.98	21.00	1.265	-	-	-0.15	0.612	0.774
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 7	9538	1907.6	1	20.01	21.00	1.256	-	-	0.16	0.507	0.637
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	ECI 7	9400	1880	1	20.08	21.00	1.236	-	-	0.05	0.221	0.273
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	ECI 7	9400	1880	1	20.08	21.00	1.236	-	-	-0.06	0.194	0.240
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	ECI 7	9400	1880	1	20.08	21.00	1.236	-	-	-0.13	0.577	0.713
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	ECI 7	9262	1852.4	1	19.98	21.00	1.265	-	-	-0.01	0.550	0.696
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	ECI 7	9538	1907.6	1	20.01	21.00	1.256	-	-	-0.11	0.485	0.609
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	26340	1880	1	19.72	20.70	1.253	-	-	0.03	0.623	0.781
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	26340	1880	1	19.68	20.70	1.265	-	-	0.18	0.478	0.605
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	26340	1880	1	19.72	20.70	1.253	-	-	-0.03	0.144	0.180
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI 7	26340	1880	1	19.68	20.70	1.265	-	-	-0.03	0.132	0.167
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	26340	1880	1	19.72	20.70	1.253	-	-	-0.03	0.150	0.188
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI 7	26340	1880	1	19.68	20.70	1.265	-	-	-0.03	0.149	0.188
36	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	26340	1880	1	19.72	20.70	1.253	-	-	-0.07	0.721	0.904
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	26140	1860	1	19.65	20.70	1.274	-	-	0.03	0.701	0.893
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	26590	1905	1	19.67	20.70	1.268	-	-	0.07	0.709	0.899
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	26340	1880	1	19.68	20.70	1.265	-	-	0.03	0.605	0.765
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	ECI 7	26340	1880	1	19.67	20.70	1.268	-	-	0.03	0.603	0.764
	LTE Band 2 Other PA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	18900	1880	1	19.70	20.70	1.259	-	-	0.12	0.689	0.867
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	26340	1880	1	15.23	16.60	1.371	-	-	0.01	0.168	0.230
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 4	ECI 7	26340	1880	1	15.19	16.60	1.384	-	-	-0.06	0.137	0.190
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	26340	1880	1	15.23	16.60	1.371	-	-	-0.1	0.345	0.473
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 7	26340	1880	1	15.19	16.60	1.384	-	-	-0.04	0.309	0.428
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	26340	1880	1	15.23	16.60	1.371	-	-	-0.01	0.079	0.108
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	ECI 7	26340	1880	1	15.19	16.60	1.384	-	-	-0.09	0.067	0.093
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	26340	1880	1	15.23	16.60	1.371	-	-	0.05	0.026	0.036
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	ECI 7	26340	1880	1	15.19	16.60	1.384	-	-	0.02	0.020	0.028
	LTE Band 25	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	26340	1880	1	15.23	16.60	1.371	-	-	-0.07	0.449	0.616
	LTE Band 25	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	26340	1880	1	15.19	16.60	1.384	-	-	0.06	0.348	0.481
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	376000	1880	1	20.52	21.30	1.197	-	-	-0.13	0.783	0.937
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	376000	1880	1	20.46	21.30	1.213	-	-	0.08	0.783	0.950
	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	376000	1880	1	20.42	21.30	1.225	-	-	0.16	0.762	0.933
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	376000	1880	1	20.52	21.30	1.197	-	-	0.01	0.851	1.018
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	376000	1880	1	20.46	21.30	1.213	-	-	-0.16	0.817	0.991
	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	376000	1880	1	20.42	21.30	1.225	-	-	0.1	0.830	1.016
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	376000	1880	1	20.52	21.30	1.197	-	-	-0.04	0.193	0.231
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	376000	1880	1	20.46	21.30	1.213	-	-	-0.01	0.200	0.243
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	376000	1880	1	20.52	21.30	1.197	-	-	0	0.259	0.310
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	376000	1880	1	20.46	21.30	1.213	-	-	-0.11	0.262	0.318
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	376000	1880	1	20.52	21.30	1.197	-	-	-0.06	1.090	1.304
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	376000	1880	1	20.46	21.30	1.213	-	-	-0.15	1.100	1.335



FCC SAR Test Report

Report No. : FA530724

37	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	376000	1880	1	20.42	21.30	1.225	-	-	-0.02	1.130	1.384
	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	376000	1880	2	20.42	21.30	1.225	-	-	-0.18	0.987	1.209
	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	376000	1880	3	20.42	21.30	1.225	-	-	0.1	1.050	1.286
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	376000	1880	1	16.70	17.90	1.318	-	-	0.07	0.171	0.225
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	376000	1880	1	16.63	17.90	1.340	-	-	-0.09	0.167	0.224
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	376000	1880	1	16.70	17.90	1.318	-	-	-0.16	0.402	0.530
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	376000	1880	1	16.63	17.90	1.340	-	-	-0.18	0.415	0.556
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	376000	1880	1	16.70	17.90	1.318	-	-	0.11	0.078	0.103
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	376000	1880	1	16.63	17.90	1.340	-	-	-0.08	0.085	0.114
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	376000	1880	1	16.70	17.90	1.318	-	-	-0.1	0.030	0.040
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	376000	1880	1	16.63	17.90	1.340	-	-	-0.01	0.030	0.040
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	376000	1880	1	16.70	17.90	1.318	-	-	0.03	0.477	0.629
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	376000	1880	1	16.63	17.90	1.340	-	-	-0.06	0.462	0.619
	FR1 n2 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	376000	1880	1	16.70	17.90	1.318	-	-	0.09	0.423	0.558
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	21100	2535	1	18.55	19.40	1.216	-	-	0.08	0.658	0.800
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	20850	2510	1	18.44	19.40	1.247	-	-	0.01	0.684	0.853
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	21350	2560	1	18.37	19.40	1.268	-	-	0.03	0.577	0.731
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	21100	2535	1	18.50	19.40	1.230	-	-	-0.08	0.481	0.592
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 1	ECI 7	21100	2535	1	18.48	19.40	1.236	-	-	-0.18	0.462	0.571
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	21100	2535	1	18.55	19.40	1.216	-	-	0.1	0.554	0.674
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	21100	2535	1	18.50	19.40	1.230	-	-	-0.17	0.390	0.480
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	21100	2535	1	18.55	19.40	1.216	-	-	-0.05	0.063	0.077
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI 7	21100	2535	1	18.50	19.40	1.230	-	-	0.18	0.052	0.064
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	21100	2535	1	18.55	19.40	1.216	-	-	0.14	0.145	0.176
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI 7	21100	2535	1	18.50	19.40	1.230	-	-	-0.17	0.111	0.137
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	21100	2535	1	18.55	19.40	1.216	-	-	0.17	0.676	0.822
38	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	20850	2510	1	18.44	19.40	1.247	-	-	0.01	0.768	0.958
	LTE Band 7C	20M	QPSK	1	99	-	Bottom Side	5mm	Ant 1	ECI 7	20850+21048	2510+2529.8	1	18.12	19.40	1.343	-	-	0.02	0.711	0.955
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	21350	2560	1	18.37	19.40	1.268	-	-	-0.05	0.703	0.891
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	21100	2535	1	18.50	19.40	1.230	-	-	0.01	0.543	0.668
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	ECI 7	21100	2535	1	18.48	19.40	1.236	-	-	0.04	0.550	0.680
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	20850	2510	1	18.44	19.40	1.247	-	-	0.13	0.723	0.902
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	21100	2535	1	15.74	16.90	1.306	-	-	0.1	0.185	0.242
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 4	ECI 7	21100	2535	1	15.71	16.90	1.315	-	-	0.02	0.136	0.179
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	21100	2535	1	15.74	16.90	1.306	-	-	0.01	0.468	0.611
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 7	21100	2535	1	15.71	16.90	1.315	-	-	0.16	0.371	0.488
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	21100	2535	1	15.74	16.90	1.306	-	-	-0.01	0.229	0.299
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	ECI 7	21100	2535	1	15.71	16.90	1.315	-	-	-0.14	0.174	0.229
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	21100	2535	1	15.74	16.90	1.306	-	-	0.16	0.033	0.043
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	ECI 7	21100	2535	1	15.71	16.90	1.315	-	-	0.01	0.030	0.039
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	21100	2535	1	15.74	16.90	1.306	-	-	0.13	0.444	0.580
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	21100	2535	1	15.71	16.90	1.315	-	-	0.07	0.314	0.413
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	40620	2593	1	21.29	22.90	1.449	62.9	1.006	0.09	0.611	0.891
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	39750	2506	1	21.19	22.90	1.483	62.9	1.006	0.11	0.746	1.113
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	40185	2549.5	1	21.22	22.90	1.472	62.9	1.006	-0.13	0.624	0.924
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	41055	2636.5	1	21.23	22.90	1.469	62.9	1.006	0.12	0.622	0.919
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	41490	2680	1	21.19	22.90	1.483	62.9	1.006	-0.11	0.623	0.929
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	40620	2593	1	21.25	22.90	1.462	62.9	1.006	0.17	0.590	0.868
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	39750	2506	1	21.12	22.90	1.507	62.9	1.006	-0.17	0.591	0.896
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	40185	2549.5	1	21.22	22.90	1.472	62.9	1.006	0.11	0.526	0.779
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	41055	2636.5	1	21.11	22.90	1.510	62.9	1.006	-0.05	0.514	0.781
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	41490	2680	1	21.12	22.90	1.507	62.9	1.006	-0.01	0.537	0.814
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 1	ECI 7	40620	2593	1	21.22	22.90	1.472	62.9	1.006	-0.14	0.506	0.749
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	40620	2593	1	21.29	22.90	1.449	62.9	1.006	-0.15	0.554	0.807



FCC SAR Test Report

Report No. : FA530724

	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	39750	2506	1	21.19	22.90	1.483	62.9	1.006	-0.17	0.625	0.932
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	40185	2549.5	1	21.22	22.90	1.472	62.9	1.006	0.08	0.519	0.769
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	41055	2636.5	1	21.23	22.90	1.469	62.9	1.006	0.01	0.480	0.709
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	41490	2680	1	21.19	22.90	1.483	62.9	1.006	0.02	0.473	0.705
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	40620	2593	1	21.25	22.90	1.462	62.9	1.006	-0.11	0.388	0.571
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	ECI 7	40620	2593	1	21.22	22.90	1.472	62.9	1.006	0.09	0.435	0.644
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	40620	2593	1	21.29	22.90	1.449	62.9	1.006	-0.16	0.063	0.092
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI 7	40620	2593	1	21.25	22.90	1.462	62.9	1.006	0.05	0.052	0.076
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	40620	2593	1	21.29	22.90	1.449	62.9	1.006	0.08	0.141	0.206
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI 7	40620	2593	1	21.25	22.90	1.462	62.9	1.006	-0.18	0.116	0.171
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	40620	2593	1	21.29	22.90	1.449	62.9	1.006	-0.03	0.727	1.060
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	39750	2506	1	21.19	22.90	1.483	62.9	1.006	-0.09	0.791	1.180
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	40185	2549.5	1	21.22	22.90	1.472	62.9	1.006	0.18	0.769	1.139
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	41055	2636.5	1	21.23	22.90	1.469	62.9	1.006	0.11	0.791	1.169
39	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	41490	2680	1	21.19	22.90	1.483	62.9	1.006	-0.01	0.851	1.269
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	40620	2593	1	21.25	22.90	1.462	62.9	1.006	0.07	0.597	0.878
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	39750	2506	1	21.12	22.90	1.507	62.9	1.006	0.09	0.638	0.967
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	40185	2549.5	1	21.22	22.90	1.472	62.9	1.006	-0.08	0.649	0.961
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	41055	2636.5	1	21.11	22.90	1.510	62.9	1.006	-0.05	0.650	0.987
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	41490	2680	1	21.12	22.90	1.507	62.9	1.006	-0.03	0.730	1.106
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	ECI 7	40620	2593	1	21.22	22.90	1.472	62.9	1.006	0.17	0.617	0.914
	LTE Band 41 Other PA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	41490	2680	1	21.19	22.90	1.483	62.9	1.006	0.03	0.835	1.245
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	40620	2593	1	18.24	19.70	1.400	62.9	1.006	-0.05	0.130	0.183
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 4	ECI 7	40620	2593	1	18.20	19.70	1.413	62.9	1.006	-0.04	0.110	0.156
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	40620	2593	1	18.24	19.70	1.400	62.9	1.006	-0.08	0.352	0.496
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 7	40620	2593	1	18.20	19.70	1.413	62.9	1.006	0.16	0.318	0.452
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	40620	2593	1	18.24	19.70	1.400	62.9	1.006	0	0.159	0.224
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	ECI 7	40620	2593	1	18.20	19.70	1.413	62.9	1.006	0.01	0.128	0.182
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	40620	2593	1	18.24	19.70	1.400	62.9	1.006	0.15	0.028	0.039
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	ECI 7	40620	2593	1	18.20	19.70	1.413	62.9	1.006	0.14	0.022	0.031
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	40620	2593	1	18.24	19.70	1.400	62.9	1.006	-0.01	0.429	0.604
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	39750	2506	1	18.18	19.70	1.419	62.9	1.006	-0.01	0.367	0.524
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	40185	2549.5	1	18.19	19.70	1.416	62.9	1.006	0.03	0.381	0.543
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	41055	2636.5	1	18.11	19.70	1.442	62.9	1.006	0.02	0.401	0.582
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	41490	2680	1	18.06	19.70	1.459	62.9	1.006	0.08	0.405	0.594
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	40620	2593	1	18.20	19.70	1.413	62.9	1.006	0.03	0.305	0.433
	LTE Band 41	20M	QPSK	100	0	-	Top Side	5mm	Ant 4	ECI 7	40620	2593	1	18.19	19.70	1.416	62.9	1.006	0.05	0.293	0.417
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	507000	2535	1	19.20	20.20	1.259	-	-	-0.06	0.625	0.787
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	507000	2535	1	19.10	20.20	1.288	-	-	-0.19	0.635	0.818
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	507000	2535	1	19.04	20.20	1.306	-	-	0.09	0.570	0.745
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	507000	2535	1	19.20	20.20	1.259	-	-	0.13	0.625	0.787
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	507000	2535	1	19.10	20.20	1.288	-	-	-0.08	0.546	0.703
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	507000	2535	1	19.20	20.20	1.259	-	-	-0.04	0.066	0.083
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	507000	2535	1	19.10	20.20	1.288	-	-	0.12	0.064	0.082
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	507000	2535	1	19.20	20.20	1.259	-	-	0.09	0.173	0.218
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	507000	2535	1	19.10	20.20	1.288	-	-	-0.02	0.156	0.201
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	507000	2535	1	19.20	20.20	1.259	-	-	-0.16	0.962	1.211
40	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	507000	2535	1	19.10	20.20	1.288	-	-	-0.01	0.987	1.272
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	507000	2535	1	19.04	20.20	1.306	-	-	-0.03	0.927	1.211
	FR1 n7 Other PA	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	507000	2535	1	18.07	19.30	1.327	-	-	-0.01	0.934	1.240
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	507000	2535	1	18.15	19.30	1.303	-	-	0.17	0.194	0.253
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	507000	2535	1	18.07	19.30	1.327	-	-	-0.15	0.185	0.246
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	507000	2535	1	18.15	19.30	1.303	-	-	0.01	0.482	0.628
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	507000	2535	1	18.07	19.30	1.327	-	-	0.05	0.459	0.609
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	507000	2535	1	18.15	19.30	1.303	-	-	0.15	0.225	0.293
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	507000	2535	1	18.07	19.30	1.327	-	-	0.03	0.236	0.313



FCC SAR Test Report

Report No. : FA530724

	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	507000	2535	1	18.15	19.30	1.303	-	-	0.14	0.029	0.038
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	507000	2535	1	18.07	19.30	1.327	-	-	-0.16	0.033	0.044
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	507000	2535	1	18.15	19.30	1.303	-	-	-0.02	0.463	0.603
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	507000	2535	1	18.07	19.30	1.327	-	-	0.1	0.401	0.532
	FR1 n7 Other PA	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	507000	2535	1	18.15	19.30	1.303	-	-	0.1	0.423	0.551
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	ECI 7	518598	2592.99	1	18.25	19.30	1.274	-	-	-0.15	0.592	0.754
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	ECI 7	518598	2592.99	1	18.17	19.30	1.297	-	-	0.06	0.534	0.693
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 1	ECI 7	518598	2592.99	1	18.15	19.30	1.303	-	-	0.15	0.556	0.725
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	ECI 7	518598	2592.99	1	18.25	19.30	1.274	-	-	-0.1	0.561	0.714
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	ECI 7	518598	2592.99	1	18.17	19.30	1.297	-	-	0.17	0.539	0.699
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 1	ECI 7	518598	2592.99	1	18.15	19.30	1.303	-	-	0.13	0.534	0.696
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 1	ECI 7	518598	2592.99	1	18.25	19.30	1.274	-	-	-0.02	0.060	0.076
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 1	ECI 7	518598	2592.99	1	18.17	19.30	1.297	-	-	0	0.064	0.083
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 1	ECI 7	518598	2592.99	1	18.25	19.30	1.274	-	-	0.1	0.136	0.173
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 1	ECI 7	518598	2592.99	1	18.17	19.30	1.297	-	-	0.13	0.138	0.179
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 1	ECI 7	518598	2592.99	1	18.25	19.30	1.274	-	-	-0.04	0.910	1.159
41	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 1	ECI 7	518598	2592.99	1	18.17	19.30	1.297	-	-	0.02	0.945	1.226
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	5mm	Ant 1	ECI 7	518598	2592.99	1	18.15	19.30	1.303	-	-	-0.12	0.888	1.157
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 4	ECI 7	518598	2592.99	1	16.73	17.60	1.222	-	-	-0.12	0.189	0.231
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 4	ECI 7	518598	2592.99	1	16.70	17.60	1.230	-	-	0.19	0.169	0.208
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 4	ECI 7	518598	2592.99	1	16.65	17.60	1.245	-	-	-0.01	0.165	0.205
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	ECI 7	518598	2592.99	1	16.73	17.60	1.222	-	-	-0.19	0.470	0.574
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	ECI 7	518598	2592.99	1	16.70	17.60	1.230	-	-	-0.03	0.476	0.586
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 4	ECI 7	518598	2592.99	1	16.73	17.60	1.222	-	-	0.1	0.213	0.260
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 4	ECI 7	518598	2592.99	1	16.70	17.60	1.230	-	-	0.15	0.166	0.204
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 4	ECI 7	518598	2592.99	1	16.73	17.60	1.222	-	-	-0.12	0.036	0.044
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 4	ECI 7	518598	2592.99	1	16.70	17.60	1.230	-	-	-0.15	0.034	0.042
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 4	ECI 7	518598	2592.99	1	16.73	17.60	1.222	-	-	0.01	0.512	0.626
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 4	ECI 7	518598	2592.99	1	16.70	17.60	1.230	-	-	-0.15	0.434	0.534
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	5mm	Ant 4	ECI 7	518598	2592.99	1	16.65	17.60	1.245	-	-	0.06	0.500	0.622
3500MHz																					
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 5	ECI 7	42590	3500	1	15.11	16.10	1.256	62.9	1.006	0.11	0.156	0.197
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 5	ECI 7	42590	3500	1	15.09	16.10	1.262	62.9	1.006	0.02	0.127	0.161
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 5	ECI 7	42590	3500	1	15.11	16.10	1.256	62.9	1.006	-0.11	0.343	0.433
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	5mm	Ant 5	ECI 7	42590	3500	1	15.09	16.10	1.262	62.9	1.006	-0.06	0.252	0.320
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	5mm	Ant 5	ECI 7	42590	3500	1	15.11	16.10	1.256	62.9	1.006	-0.17	0.043	0.054
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	5mm	Ant 5	ECI 7	42590	3500	1	15.09	16.10	1.262	62.9	1.006	0.02	0.034	0.043
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	ECI 7	42590	3500	1	15.11	16.10	1.256	62.9	1.006	-0.11	0.032	0.040
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Side	5mm	Ant 5	ECI 7	42590	3500	1	15.09	16.10	1.262	62.9	1.006	0.18	0.023	0.029
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	5mm	Ant 5	ECI 7	42590	3500	1	15.11	16.10	1.256	62.9	1.006	0.16	0.478	0.604
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	5mm	Ant 5	ECI 7	42190	3460	1	15.03	16.10	1.279	62.9	1.006	0.19	0.418	0.538
42	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	5mm	Ant 5	ECI 7	42990	3540	1	15.03	16.10	1.279	62.9	1.006	-0.05	0.488	0.628
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Top Side	5mm	Ant 5	ECI 7	42590	3500	1	15.09	16.10	1.262	62.9	1.006	0.13	0.341	0.433
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Top Side	5mm	Ant 5	ECI 7	42590	3500	1	15.07	16.10	1.268	62.9	1.006	0.19	0.333	0.425
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	ECI 7	656000	3840	1	14.20	15.20	1.259	-	-	-0.04	0.152	0.191
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	ECI 7	656000	3840	1	14.09	15.20	1.291	-	-	-0.08	0.167	0.216
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	ECI 7	656000	3840	1	14.20	15.20	1.259	-	-	0.18	0.355	0.447
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	ECI 7	656000	3840	1	14.09	15.20	1.291	-	-	-0.04	0.360	0.465
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 5	ECI 7	656000	3840	1	14.20	15.20	1.259	-	-	-0.13	0.042	0.053
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 5	ECI 7	656000	3840	1	14.09	15.20	1.291	-	-	-0.13	0.051	0.066
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 5	ECI 7	656000	3840	1	14.20	15.20	1.259	-	-	0.06	0.048	0.060
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 5	ECI 7	656000	3840	1	14.09	15.20	1.291	-	-	-0.03	0.049	0.063



FCC SAR Test Report

Report No. : FA530724

	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 5	ECI 7	656000	3840	1	14.20	15.20	1.259	-	-	-0.03	0.429	0.540
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 5	ECI 7	656000	3840	1	14.09	15.20	1.291	-	-	-0.01	0.490	0.633
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	5mm	Ant 5	ECI 7	656000	3840	1	14.12	15.20	1.282	-	-	0.08	0.390	0.500
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	ECI 7	656000	3840	1	11.26	12.90	1.459	-	-	0.01	0.021	0.031
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	ECI 7	656000	3840	1	11.22	12.90	1.472	-	-	-0.15	0.021	0.031
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	ECI 7	656000	3840	1	11.26	12.90	1.459	-	-	0.08	0.429	0.626
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	ECI 7	656000	3840	1	11.22	12.90	1.472	-	-	0.19	0.358	0.527
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 3	ECI 7	656000	3840	1	11.17	12.90	1.489	-	-	0.07	0.343	0.511
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 3	ECI 7	656000	3840	1	11.26	12.90	1.459	-	-	-0.18	0.112	0.163
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	ECI 7	656000	3840	1	11.22	12.90	1.472	-	-	0.03	0.098	0.144
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 3	ECI 7	656000	3840	1	11.26	12.90	1.459	-	-	-0.15	0.014	0.020
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 3	ECI 7	656000	3840	1	11.22	12.90	1.472	-	-	-0.15	0.008	0.012
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 3	ECI 7	656000	3840	1	11.26	12.90	1.459	-	-	0.11	0.019	0.028
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 3	ECI 7	656000	3840	1	11.22	12.90	1.472	-	-	-0.08	0.017	0.025
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	ECI 7	656000	3840	1	17.97	18.90	1.239	-	-	0.18	0.259	0.321
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	ECI 7	656000	3840	1	17.93	18.90	1.250	-	-	0.14	0.228	0.285
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	ECI 7	656000	3840	1	17.97	18.90	1.239	-	-	0.17	0.432	0.535
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	ECI 7	656000	3840	1	17.93	18.90	1.250	-	-	-0.05	0.501	0.626
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	ECI 7	656000	3840	1	17.97	18.90	1.239	-	-	0.1	0.045	0.056
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	ECI 7	656000	3840	1	17.93	18.90	1.250	-	-	-0.17	0.035	0.044
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	ECI 7	656000	3840	1	17.97	18.90	1.239	-	-	-0.06	0.403	0.499
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 7	ECI 7	656000	3840	1	17.93	18.90	1.250	-	-	0.04	0.352	0.440
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	5mm	Ant 7	ECI 7	656000	3840	1	17.91	18.90	1.256	-	-	-0.01	0.337	0.423
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	ECI 7	656000	3840	1	17.97	18.90	1.239	-	-	-0.08	0.288	0.357
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	ECI 7	656000	3840	1	17.93	18.90	1.250	-	-	0.05	0.277	0.346
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	ECI 7	656000	3840	1	19.26	19.80	1.132	-	-	0.08	0.434	0.491
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	ECI 7	656000	3840	1	19.14	19.80	1.164	-	-	0.01	0.374	0.435
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	ECI 7	656000	3840	1	19.26	19.80	1.132	-	-	0.03	0.783	0.887
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	ECI 7	656000	3840	1	19.14	19.80	1.164	-	-	-0.08	0.684	0.796
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 9	ECI 7	656000	3840	1	19.02	19.80	1.197	-	-	-0.08	0.659	0.789
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	ECI 7	656000	3840	1	19.26	19.80	1.132	-	-	0.1	0.052	0.059
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 9	ECI 7	656000	3840	1	19.14	19.80	1.164	-	-	-0.18	0.040	0.047
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	656000	3840	1	19.26	19.80	1.132	-	-	0.1	0.988	1.119
43	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	656000	3840	1	19.14	19.80	1.164	-	-	-0.05	1.110	1.292
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	ECI 7	656000	3840	1	19.26	19.80	1.132	-	-	0.12	0.297	0.336
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	ECI 7	656000	3840	1	19.14	19.80	1.164	-	-	0.08	0.257	0.299
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	656000	3840	2	19.14	19.80	1.164	-	-	0.03	1.010	1.176
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	656000	3840	3	19.14	19.80	1.164	-	-	-0.08	0.987	1.149



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	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/BT																	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6	Simultaneous	6	2437	1	14.71	16.00	1.346	99.14	1.009	0.08	0.344	0.467
44	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Simultaneous	6	2437	1	14.71	16.00	1.346	99.14	1.009	-0.03	0.485	0.659
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 6	Simultaneous	6	2437	1	14.71	16.00	1.346	99.14	1.009	0.1	0.026	0.035
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 6	Simultaneous	6	2437	1	14.71	16.00	1.346	99.14	1.009	-0.18	0.340	0.462
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 6	Simultaneous	6	2437	1	14.71	16.00	1.346	99.14	1.009	0.08	0.285	0.387
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Simultaneous	6	2437	2	14.71	16.00	1.346	99.14	1.009	0.08	0.423	0.574
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Simultaneous	6	2437	3	14.71	16.00	1.346	99.14	1.009	0.01	0.411	0.558
	Bluetooth	1Mbps	Front	5mm	Ant 6	Full power	78	2480	1	16.21	17.00	1.199	76.94	1.083	0.08	0.234	0.304
45	Bluetooth	1Mbps	Back	5mm	Ant 6	Full power	78	2480	1	16.21	17.00	1.199	76.94	1.083	0.01	0.331	0.430
	Bluetooth	1Mbps	Left Side	5mm	Ant 6	Full power	78	2480	1	16.21	17.00	1.199	76.94	1.083	0.01	0.001	0.001
	Bluetooth	1Mbps	Right Side	5mm	Ant 6	Full power	78	2480	1	16.21	17.00	1.199	76.94	1.083	0.03	0.220	0.286
	Bluetooth	1Mbps	Top Side	5mm	Ant 6	Full power	78	2480	1	16.21	17.00	1.199	76.94	1.083	-0.08	0.227	0.295
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Simultaneous	42	5210	1	12.59	14.00	1.384	87.5	1.143	0.08	0.165	0.261
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Simultaneous	42	5210	1	12.59	14.00	1.384	87.5	1.143	0.01	0.335	0.530
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5	Simultaneous	42	5210	1	12.59	14.00	1.384	87.5	1.143	0.03	0.023	0.036
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5	Simultaneous	42	5210	1	12.59	14.00	1.384	87.5	1.143	-0.08	0.094	0.149
46	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5	Simultaneous	42	5210	1	12.59	14.00	1.384	87.5	1.143	0.03	0.418	0.661
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5	Simultaneous	42	5210	2	12.59	14.00	1.384	87.5	1.143	-0.17	0.389	0.615
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5	Simultaneous	42	5210	3	12.59	14.00	1.384	87.5	1.143	-0.03	0.345	0.546
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Simultaneous	155	5775	1	12.32	14.00	1.472	87.5	1.143	-0.08	0.117	0.197
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Simultaneous	155	5775	1	12.32	14.00	1.472	87.5	1.143	0.05	0.253	0.426
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5	Simultaneous	155	5775	1	12.32	14.00	1.472	87.5	1.143	0.06	0.029	0.049
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5	Simultaneous	155	5775	1	12.32	14.00	1.472	87.5	1.143	-0.09	0.216	0.364
47	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5	Simultaneous	155	5775	1	12.32	14.00	1.472	87.5	1.143	-0.1	0.333	0.560
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5	Simultaneous	155	5775	2	12.32	14.00	1.472	87.5	1.143	-0.08	0.305	0.513
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5	Simultaneous	155	5775	3	12.32	14.00	1.472	87.5	1.143	0.1	0.312	0.525



16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	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)
750MHz																						
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI 3	23095	707.5	1	22.61	24.00	1.377	-	-	0.01	0.620	0.854
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	ECI 3	23095	707.5	1	21.67	23.00	1.358	-	-	-0.01	0.482	0.655
	LTE Band 12	10M	QPSK	50	0	-	Front	5mm	Ant 0	-	ECI 3	23095	707.5	1	21.60	23.00	1.380	-	-	0.02	0.453	0.625
48	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	23095	707.5	1	22.61	24.00	1.377	-	-	0.01	0.834	1.149
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	ECI 3	23095	707.5	1	21.67	23.00	1.358	-	-	-0.06	0.670	0.910
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI 3	23095	707.5	1	21.60	23.00	1.380	-	-	-0.04	0.601	0.830
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI 3	23230	782	1	22.86	24.00	1.300	-	-	-0.15	0.674	0.876
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	ECI 3	23230	782	1	21.91	23.00	1.285	-	-	0.11	0.527	0.677
	LTE Band 13	10M	QPSK	50	0	-	Front	5mm	Ant 0	-	ECI 3	23230	782	1	21.83	23.00	1.309	-	-	-0.02	0.516	0.676
49	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	23230	782	1	22.86	24.00	1.300	-	-	0.01	0.961	1.249
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	ECI 3	23230	782	1	21.91	23.00	1.285	-	-	0.1	0.758	0.974
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	ECI 3	23230	782	1	22.86	24.00	1.300	-	-	0.03	0.859	1.117
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI 3	23230	782	1	21.83	23.00	1.309	-	-	0.04	0.705	0.923
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	23230	782	2	22.86	24.00	1.300	-	-	0.02	0.891	1.158
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	23230	782	3	22.86	24.00	1.300	-	-	0.09	0.921	1.197
835MHz																						
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	ECI 3	189	836.4	1	27.16	28.50	1.361	-	-	0.08	0.708	0.964
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	ECI 3	128	824.2	1	27.25	28.50	1.334	-	-	0.01	0.654	0.872
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	ECI 3	251	848.8	1	27.15	28.50	1.365	-	-	0.03	0.644	0.879
50	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	ECI 3	189	836.4	1	27.16	28.50	1.361	-	-	-0.03	1.050	1.430
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Headset	ECI 3	189	836.4	1	27.16	28.50	1.361	-	-	0.09	0.991	1.349
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	ECI 3	128	824.2	1	27.25	28.50	1.334	-	-	-0.08	0.939	1.252
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	ECI 3	251	848.8	1	27.15	28.50	1.365	-	-	-0.08	0.961	1.311
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	ECI 3	189	836.4	2	27.16	28.50	1.361	-	-	0.08	0.981	1.336
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	ECI 3	189	836.4	3	27.16	28.50	1.361	-	-	-0.17	0.923	1.257
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	ECI 3	4182	836.4	1	22.58	23.40	1.208	-	-	0.08	0.682	0.824
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	ECI 3	4132	826.4	1	22.53	23.40	1.222	-	-	0.01	0.711	0.869
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	ECI 3	4233	846.6	1	22.49	23.40	1.233	-	-	0.03	0.701	0.864
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	ECI 3	4182	836.4	1	22.58	23.40	1.208	-	-	-0.08	0.946	1.143
51	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	ECI 3	4132	826.4	1	22.53	23.40	1.222	-	-	-0.05	1.030	1.258
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	ECI 3	4132	826.4	1	22.53	23.40	1.222	-	-	-0.05	0.990	1.210
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	ECI 3	4233	846.6	1	22.49	23.40	1.233	-	-	-0.08	1.000	1.233
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	17mm	Ant 0	-	ECI 4	4182	836.4	1	22.58	24.00	1.387	-	-	-0.08	0.106	0.147
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 0	-	ECI 4	4182	836.4	1	22.58	24.00	1.387	-	-	-0.08	0.113	0.157
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI 3	26865	831.5	1	22.65	24.00	1.365	-	-	0.01	0.698	0.952
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	ECI 3	26865	831.5	1	21.64	23.00	1.368	-	-	0.06	0.546	0.747
	LTE Band 26	15M	QPSK	75	0	-	Front	5mm	Ant 0	-	ECI 3	26865	831.5	1	21.73	23.00	1.340	-	-	0.02	0.572	0.766
52	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	26865	831.5	1	22.65	24.00	1.365	-	-	0.01	0.999	1.363
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	ECI 3	26865	831.5	1	22.65	24.00	1.365	-	-	0.07	0.971	1.325
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	ECI 3	26865	831.5	1	21.64	23.00	1.368	-	-	0.12	0.790	1.081
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	-	ECI 3	26865	831.5	1	21.73	23.00	1.340	-	-	-0.16	0.803	1.076
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	26865	831.5	1	22.61	23.60	1.256	-	-	0.12	0.410	0.515
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 4	-	ECI 3	26865	831.5	1	21.59	23.00	1.384	-	-	0.08	0.333	0.461
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	26865	831.5	1	22.61	23.60	1.256	-	-	0.03	0.711	0.893
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	Headset	ECI 3	26865	831.5	1	22.61	23.60	1.256	-	-	0.04	0.683	0.858
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 4	-	ECI 3	26865	831.5	1	21.59	23.00	1.384	-	-	-0.17	0.569	0.787
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 4	-	ECI 3	26865	831.5	1	21.58	23.00	1.387	-	-	-0.03	0.548	0.760
	LTE Band 26	15M	QPSK	1	0	-	Front	17mm	Ant 4	-	ECI 4	26865	831.5	1	22.61	24.00	1.377	-	-	0.1	0.106	0.146
	LTE Band 26	15M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	26865	831.5	1	22.61	24.00	1.377	-	-	-0.18	0.046	0.063



FCC SAR Test Report

Report No. : FA530724

	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	ECI 3	166300	831.5	1	22.75	23.50	1.189	-	-	-0.13	0.732	0.870
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	ECI 3	166300	831.5	1	22.72	23.50	1.197	-	-	-0.01	0.730	0.874
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Front	5mm	Ant 0	-	ECI 3	166300	831.5	1	22.70	23.50	1.202	-	-	0.03	0.711	0.855
53	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	166300	831.5	1	22.75	23.50	1.189	-	-	-0.03	1.080	1.284
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	Headset	ECI 3	166300	831.5	1	22.75	23.50	1.189	-	-	0.09	1.000	1.189
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	166300	831.5	1	22.72	23.50	1.197	-	-	-0.09	1.040	1.245
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	166300	831.5	1	22.70	23.50	1.202	-	-	0.05	1.000	1.202
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	17mm	Ant 0	-	ECI 4	166300	831.5	1	22.75	24.00	1.334	-	-	0.03	0.100	0.133
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 0	-	ECI 4	166300	831.5	1	22.75	24.00	1.334	-	-	0.09	0.111	0.148
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	166300	831.5	1	22.93	23.50	1.140	-	-	-0.05	0.438	0.499
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	166300	831.5	1	22.91	23.50	1.146	-	-	0.18	0.432	0.495
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	166300	831.5	1	22.93	23.50	1.140	-	-	0.01	0.781	0.891
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	166300	831.5	1	22.91	23.50	1.146	-	-	-0.17	0.751	0.860
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	166300	831.5	1	22.90	23.50	1.148	-	-	0.09	0.743	0.853
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	166300	831.5	2	22.93	23.50	1.140	-	-	-0.03	0.611	0.697
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	166300	831.5	3	22.93	23.50	1.140	-	-	0.14	0.634	0.723
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	17mm	Ant 4	-	ECI 4	166300	831.5	1	22.93	24.00	1.279	-	-	0.05	0.099	0.127
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 4	-	ECI 4	166300	831.5	1	22.93	24.00	1.279	-	-	0.03	0.038	0.049
1750MHz																						
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	1413	1732.6	1	19.55	20.60	1.274	-	-	0.17	0.630	0.802
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	1312	1712.4	1	19.39	20.60	1.321	-	-	-0.05	0.587	0.776
54	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	1513	1752.6	1	19.49	20.60	1.291	-	-	-0.01	0.686	0.886
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	ECI 3	1413	1732.6	1	19.55	20.60	1.274	-	-	0.01	0.624	0.795
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	17mm	Ant 1	-	ECI 4	1413	1732.6	1	22.72	24.00	1.343	-	-	0.1	0.214	0.287
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 1	-	ECI 4	1413	1732.6	1	22.72	24.00	1.343	-	-	0.12	0.172	0.231
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	132322	1745	1	19.64	20.60	1.247	-	-	-0.01	0.802	1.000
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	132072	1720	1	19.45	20.60	1.303	-	-	-0.08	0.742	0.967
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	132572	1770	1	19.48	20.60	1.294	-	-	0.05	0.772	0.999
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	132322	1745	1	19.57	20.60	1.268	-	-	0.06	0.613	0.777
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	ECI 3	132322	1745	1	19.53	20.60	1.279	-	-	0.13	0.604	0.773
55	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	132322	1745	1	19.64	20.60	1.247	-	-	-0.08	0.853	1.064
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	132072	1720	1	19.45	20.60	1.303	-	-	0.12	0.759	0.989
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	132572	1770	1	19.48	20.60	1.294	-	-	0.03	0.776	1.004
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	132322	1745	1	19.57	20.60	1.268	-	-	0.18	0.613	0.777
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	ECI 3	132322	1745	1	19.53	20.60	1.279	-	-	0.07	0.622	0.796
	LTE Band 66	20M	QPSK	1	0	-	Front	17mm	Ant 1	-	ECI 4	132322	1745	1	22.93	24.00	1.279	-	-	0.08	0.278	0.356
	LTE Band 66	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	ECI 4	132322	1745	1	22.93	24.00	1.279	-	-	-0.17	0.226	0.289
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	132322	1745	1	19.64	20.60	1.247	-	-	0.03	0.811	1.012
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	132322	1745	1	17.66	19.00	1.361	-	-	-0.1	0.268	0.365
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	ECI 3	132322	1745	1	17.64	19.00	1.368	-	-	0.19	0.202	0.276
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	132322	1745	1	17.66	19.00	1.361	-	-	0.01	0.642	0.874
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	132072	1720	1	17.54	19.00	1.400	-	-	-0.15	0.615	0.861
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	132572	1770	1	17.59	19.00	1.384	-	-	-0.15	0.509	0.704
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	132322	1745	1	17.64	19.00	1.368	-	-	0.11	0.492	0.673
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	ECI 3	132322	1745	1	17.61	19.00	1.377	-	-	-0.08	0.514	0.708
	LTE Band 66	20M	QPSK	1	0	-	Front	17mm	Ant 4	-	ECI 4	132322	1745	1	22.53	24.00	1.403	-	-	-0.03	0.190	0.267
	LTE Band 66	20M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	132322	1745	1	22.53	24.00	1.403	-	-	0.14	0.216	0.303
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	349000	1745	1	19.33	20.30	1.250	-	-	-0.08	0.979	1.224
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	349000	1745	1	19.26	20.30	1.271	-	-	0.17	0.987	1.254
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Front	5mm	Ant 1	Headset	ECI 3	349000	1745	1	19.26	20.30	1.271	-	-	0.05	0.963	1.224
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	349000	1745	1	19.20	20.30	1.288	-	-	0.18	0.908	1.170
56	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	349000	1745	1	19.33	20.30	1.250	-	-	-0.04	1.010	1.263
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	ECI 3	349000	1745	1	19.33	20.30	1.250	-	-	0.07	0.997	1.247
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	349000	1745	1	19.26	20.30	1.271	-	-	-0.04	0.940	1.194
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	349000	1745	1	19.20	20.30	1.288	-	-	-0.08	0.977	1.259
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Front	17mm	Ant 1	-	ECI 4	349000	1745	1	23.34	24.00	1.164	-	-	0.11	0.201	0.234



FCC SAR Test Report

Report No. : FA530724

	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 1	-	ECI 4	349000	1745	1	23.34	24.00	1.164	-	-	-0.05	0.154	0.179
	FR1 n66 Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	349000	1745	1	19.33	20.30	1.250	-	-	0.05	0.945	1.181
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	349000	1745	1	18.15	19.40	1.334	-	-	-0.13	0.304	0.405
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	349000	1745	1	18.10	19.40	1.349	-	-	0.06	0.286	0.386
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	349000	1745	1	18.15	19.40	1.334	-	-	0.08	0.666	0.888
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	349000	1745	1	18.10	19.40	1.349	-	-	-0.03	0.649	0.875
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	349000	1745	1	17.99	19.40	1.384	-	-	0.08	0.622	0.861
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Front	17mm	Ant 4	-	ECI 4	349000	1745	1	23.02	24.00	1.253	-	-	0.18	0.142	0.178
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 4	-	ECI 4	349000	1745	1	23.02	24.00	1.253	-	-	0.14	0.187	0.234
	FR1 n66 Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	349000	1745	1	18.15	19.40	1.334	-	-	0.01	0.601	0.801
1900MHz																						
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	-	ECI 3	661	1880	1	25.39	26.50	1.291	-	-	-0.07	0.872	1.126
57	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	-	ECI 3	512	1850.2	1	25.39	26.50	1.291	-	-	-0.01	0.929	1.200
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	Headset	ECI 3	512	1850.2	1	25.39	26.50	1.291	-	-	-0.01	0.903	1.166
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	-	ECI 3	810	1909.8	1	25.36	26.50	1.300	-	-	0.05	0.848	1.103
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	ECI 3	661	1880	1	25.39	26.50	1.291	-	-	-0.11	0.808	1.043
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	ECI 3	512	1850.2	1	25.39	26.50	1.291	-	-	-0.12	0.897	1.158
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	ECI 3	810	1909.8	1	25.36	26.50	1.300	-	-	0.03	0.801	1.041
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	9400	1880	1	20.08	21.00	1.236	-	-	-0.02	0.651	0.805
58	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	9262	1852.4	1	19.98	21.00	1.265	-	-	-0.06	0.664	0.840
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	9538	1907.6	1	20.01	21.00	1.256	-	-	0.15	0.572	0.718
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	ECI 3	9400	1880	1	20.08	21.00	1.236	-	-	-0.09	0.594	0.734
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	17mm	Ant 1	-	ECI 4	9400	1880	1	22.70	24.00	1.349	-	-	-0.17	0.194	0.262
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 1	-	ECI 4	9400	1880	1	22.70	24.00	1.349	-	-	0.17	0.155	0.209
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	26340	1880	1	20.83	21.80	1.250	-	-	0.16	0.807	1.009
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	26140	1860	1	20.58	21.80	1.324	-	-	0.05	0.748	0.991
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	26590	1905	1	20.64	21.80	1.306	-	-	0.05	0.761	0.994
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	26340	1880	1	20.65	21.80	1.303	-	-	-0.03	0.629	0.820
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	26140	1860	1	20.51	21.80	1.346	-	-	-0.15	0.620	0.834
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	26590	1905	1	20.45	21.80	1.365	-	-	0.02	0.629	0.858
	LTE Band 25	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	ECI 3	26340	1880	1	20.63	21.80	1.309	-	-	0.07	0.620	0.812
59	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	26340	1880	1	20.83	21.80	1.250	-	-	-0.01	0.857	1.071
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	26140	1860	1	20.58	21.80	1.324	-	-	0.16	0.743	0.984
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	26590	1905	1	20.64	21.80	1.306	-	-	0.13	0.775	1.012
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	26340	1880	1	20.65	21.80	1.303	-	-	-0.18	0.620	0.808
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	26140	1860	1	20.51	21.80	1.346	-	-	0.02	0.583	0.785
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	26590	1905	1	20.45	21.80	1.365	-	-	0.16	0.593	0.809
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	ECI 3	26340	1880	1	20.63	21.80	1.309	-	-	-0.03	0.620	0.812
	LTE Band 25	20M	QPSK	1	0	-	Front	17mm	Ant 1	-	ECI 4	26340	1880	1	22.93	24.00	1.279	-	-	-0.05	0.236	0.302
	LTE Band 25	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	ECI 4	26340	1880	1	22.93	24.00	1.279	-	-	0.01	0.217	0.278
	LTE Band 2 Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	18900	1880	1	20.77	21.80	1.268	-	-	0.03	0.811	1.028
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	26340	1880	1	18.75	19.20	1.109	-	-	0	0.347	0.385
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	ECI 3	26340	1880	1	18.69	19.20	1.125	-	-	-0.06	0.283	0.318
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	26340	1880	1	18.75	19.20	1.109	-	-	-0.1	0.733	0.813
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	26140	1860	1	18.63	19.20	1.140	-	-	-0.04	0.776	0.885
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	26590	1905	1	18.69	19.20	1.125	-	-	0.18	0.688	0.774
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	26340	1880	1	18.69	19.20	1.125	-	-	-0.17	0.639	0.719
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	ECI 3	26340	1880	1	18.64	19.20	1.138	-	-	0	0.547	0.622
	LTE Band 25	20M	QPSK	1	0	-	Front	17mm	Ant 4	-	ECI 4	26340	1880	1	22.56	24.00	1.393	-	-	0.1	0.209	0.291
	LTE Band 25	20M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	26340	1880	1	22.56	24.00	1.393	-	-	-0.17	0.242	0.337
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	376000	1880	1	20.94	21.80	1.219	-	-	-0.01	1.080	1.317
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	376000	1880	1	20.84	21.80	1.247	-	-	-0.09	1.080	1.347
	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	376000	1880	1	20.82	21.80	1.253	-	-	0.05	1.050	1.316
60	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	376000	1880	1	20.94	21.80	1.219	-	-	-0.01	1.160	1.414
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Headset	ECI 3	376000	1880	1	20.84	21.80	1.247	-	-	0.03	0.987	1.231
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	ECI 3	376000	1880	1	20.94	21.80	1.219	-	-	-0.02	0.998	1.217



FCC SAR Test Report

Report No. : FA530724

	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	376000	1880	1	20.84	21.80	1.247	-	-	0.02	1.120	1.397
	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	376000	1880	1	20.82	21.80	1.253	-	-	-0.13	1.110	1.391
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Front	17mm	Ant 1	-	ECI 4	376000	1880	1	23.28	24.00	1.180	-	-	0.04	0.166	0.196
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 1	-	ECI 4	376000	1880	1	23.28	24.00	1.180	-	-	-0.01	0.180	0.212
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	376000	1880	1	19.69	21.20	1.416	-	-	0.06	0.256	0.362
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	376000	1880	1	19.67	21.20	1.422	-	-	0	0.249	0.354
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	376000	1880	1	19.69	21.20	1.416	-	-	-0.04	0.601	0.851
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	376000	1880	1	19.67	21.20	1.422	-	-	-0.17	0.621	0.883
	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	376000	1880	1	19.67	21.20	1.422	-	-	-0.15	0.529	0.752
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Front	17mm	Ant 4	-	ECI 4	376000	1880	1	23.07	24.00	1.239	-	-	-0.08	0.139	0.172
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 4	-	ECI 4	376000	1880	1	23.07	24.00	1.239	-	-	0.05	0.182	0.225
	FR1 n2 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	376000	1880	1	20.74	21.80	1.276	-	-	0.06	0.578	0.738
2600MHz																						
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	21100	2535	1	18.56	19.60	1.271	-	-	0.11	0.671	0.853
61	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	20850	2510	1	18.31	19.60	1.346	-	-	0.06	0.722	0.972
	LTE Band 7C	20M	QPSK	1	99	-	Front	5mm	Ant 1	-	ECI 3	20850+21048	2510+2529.8	1	17.99	19.60	1.449	-	-	0.01	0.635	0.920
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	21350	2560	1	18.32	19.60	1.343	-	-	-0.02	0.609	0.818
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	21100	2535	1	18.52	19.60	1.282	-	-	0.1	0.508	0.651
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	ECI 3	21100	2535	1	18.37	19.60	1.327	-	-	-0.18	0.488	0.648
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	21100	2535	1	18.56	19.60	1.271	-	-	-0.11	0.585	0.743
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	21100	2535	1	18.52	19.60	1.282	-	-	-0.06	0.411	0.527
	LTE Band 7	20M	QPSK	1	0	-	Front	17mm	Ant 1	-	ECI 4	21100	2535	1	22.84	24.00	1.306	-	-	0.06	0.221	0.289
	LTE Band 7	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	ECI 4	21100	2535	1	22.84	24.00	1.306	-	-	-0.09	0.153	0.200
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	20850	2510	1	18.31	19.60	1.346	-	-	0.05	0.698	0.939
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	21100	2535	1	18.28	19.00	1.180	-	-	0.02	0.258	0.305
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	ECI 3	21100	2535	1	18.24	19.00	1.191	-	-	-0.12	0.190	0.226
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	21100	2535	1	18.28	19.00	1.180	-	-	-0.13	0.680	0.803
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	20850	2510	1	18.14	19.00	1.219	-	-	-0.07	0.717	0.874
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	21350	2560	1	18.20	19.00	1.202	-	-	0.08	0.656	0.789
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	21100	2535	1	18.24	19.00	1.191	-	-	0.16	0.518	0.617
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	ECI 3	21100	2535	1	18.23	19.00	1.194	-	-	0.1	0.472	0.564
	LTE Band 7	20M	QPSK	1	0	-	Front	17mm	Ant 4	-	ECI 4	21100	2535	1	22.73	24.00	1.340	-	-	-0.08	0.132	0.177
	LTE Band 7	20M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	21100	2535	1	22.73	24.00	1.340	-	-	0.13	0.188	0.252
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	40620	2593	1	23.05	24.00	1.245	62.9	1.006	-0.01	0.609	0.762
62	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	39750	2506	1	23.02	24.00	1.253	62.9	1.006	-0.05	0.745	0.939
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	40185	2549.5	1	22.83	24.00	1.309	62.9	1.006	-0.11	0.623	0.821
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	41055	2636.5	1	22.93	24.00	1.279	62.9	1.006	-0.06	0.621	0.799
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	41490	2680	1	23.02	24.00	1.253	62.9	1.006	-0.15	0.621	0.783
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	40620	2593	1	22.05	23.00	1.245	62.9	1.006	0.03	0.489	0.612
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	39750	2506	1	21.99	23.00	1.262	62.9	1.006	0.16	0.590	0.749
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	40185	2549.5	1	21.85	23.00	1.303	62.9	1.006	-0.15	0.524	0.687
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	41055	2636.5	1	22.02	23.00	1.253	62.9	1.006	-0.02	0.513	0.647
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	41490	2680	1	21.94	23.00	1.276	62.9	1.006	-0.09	0.536	0.688
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	ECI 3	40620	2593	1	22.10	23.00	1.230	62.9	1.006	0.14	0.505	0.625
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0.1	0.553	0.692
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	39750	2506	1	23.02	24.00	1.253	62.9	1.006	0.07	0.624	0.787
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	40185	2549.5	1	22.83	24.00	1.309	62.9	1.006	-0.09	0.518	0.682
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	41055	2636.5	1	22.93	24.00	1.279	62.9	1.006	-0.16	0.479	0.617
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	41490	2680	1	23.02	24.00	1.253	62.9	1.006	-0.18	0.472	0.595
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	40620	2593	1	22.05	23.00	1.245	62.9	1.006	-0.07	0.387	0.485
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	ECI 3	40620	2593	1	22.10	23.00	1.230	62.9	1.006	-0.06	0.434	0.537
	LTE Band 41	20M	QPSK	1	0	-	Front	17mm	Ant 1	-	ECI 4	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0.12	0.126	0.158
	LTE Band 41	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	ECI 4	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0.03	0.078	0.098
	LTE Band 41 Other PA	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	39750	2506	1	22.66	24.00	1.361	62.9	1.006	0.03	0.681	0.933
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	40620	2593	1	20.25	21.20	1.245	62.9	1.006	-0.01	0.228	0.285



FCC SAR Test Report

Report No. : FA530724

	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	ECI 3	40620	2593	1	20.23	21.20	1.250	62.9	1.006	-0.11	0.194	0.244
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	40620	2593	1	20.25	21.20	1.245	62.9	1.006	0.14	0.618	0.774
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	39750	2506	1	20.11	21.20	1.285	62.9	1.006	0.01	0.688	0.890
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	40185	2549.5	1	20.16	21.20	1.271	62.9	1.006	0.1	0.586	0.749
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	41055	2636.5	1	20.09	21.20	1.291	62.9	1.006	0.16	0.553	0.718
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	41490	2680	1	20.16	21.20	1.271	62.9	1.006	-0.06	0.521	0.666
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	40620	2593	1	20.23	21.20	1.250	62.9	1.006	0.02	0.558	0.702
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	39750	2506	1	20.14	21.20	1.276	62.9	1.006	0.05	0.549	0.705
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	40185	2549.5	1	20.19	21.20	1.262	62.9	1.006	-0.03	0.493	0.626
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	41055	2636.5	1	20.11	21.20	1.285	62.9	1.006	0.17	0.446	0.577
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	41490	2680	1	20.10	21.20	1.288	62.9	1.006	-0.15	0.440	0.570
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	ECI 3	40620	2593	1	20.20	21.20	1.259	62.9	1.006	0.16	0.521	0.660
	LTE Band 41	20M	QPSK	1	0	-	Front	17mm	Ant 4	-	ECI 4	40620	2593	1	22.99	24.00	1.262	62.9	1.006	0.18	0.081	0.103
	LTE Band 41	20M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	40620	2593	1	22.99	24.00	1.262	62.9	1.006	0.16	0.108	0.137
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	507000	2535	1	21.16	22.20	1.271	-	-	-0.06	1.030	1.309
63	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	507000	2535	1	21.12	22.20	1.282	-	-	-0.04	1.050	1.346
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 1	Headset	ECI 3	507000	2535	1	21.12	22.20	1.282	-	-	0.03	0.981	1.258
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	507000	2535	2	21.12	22.20	1.282	-	-	0.11	0.967	1.240
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	507000	2535	3	21.12	22.20	1.282	-	-	-0.05	0.911	1.168
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	507000	2535	1	21.04	22.20	1.306	-	-	-0.13	0.943	1.232
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	507000	2535	1	21.16	22.20	1.271	-	-	-0.01	1.030	1.309
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	507000	2535	1	21.12	22.20	1.282	-	-	-0.11	0.902	1.157
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	507000	2535	1	21.04	22.20	1.306	-	-	0.19	1.010	1.319
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	ECI 3	507000	2535	1	21.04	22.20	1.306	-	-	0.06	0.991	1.294
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	17mm	Ant 1	-	ECI 4	507000	2535	1	23.08	24.00	1.236	-	-	-0.1	0.190	0.235
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 1	-	ECI 4	507000	2535	1	23.08	24.00	1.236	-	-	0.07	0.141	0.174
	FR1 n7 Other PA	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	507000	2535	1	21.12	22.20	1.282	-	-	0.03	0.898	1.152
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	507000	2535	1	19.16	20.60	1.393	-	-	-0.18	0.255	0.355
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	507000	2535	1	19.09	20.60	1.416	-	-	-0.06	0.243	0.344
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	507000	2535	1	19.16	20.60	1.393	-	-	-0.03	0.635	0.885
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	507000	2535	1	19.09	20.60	1.416	-	-	0.16	0.604	0.855
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	507000	2535	1	18.85	20.60	1.496	-	-	0.04	0.532	0.796
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	17mm	Ant 4	-	ECI 4	507000	2535	1	23.05	24.00	1.245	-	-	0.18	0.122	0.152
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 4	-	ECI 4	507000	2535	1	23.05	24.00	1.245	-	-	-0.1	0.190	0.236
	FR1 n7 Other PA	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	507000	2535	1	19.16	20.60	1.393	-	-	0.08	0.567	0.790
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	-	ECI 3	518598	2592.99	1	19.73	20.70	1.250	-	-	-0.05	0.654	0.818
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	-	ECI 3	518598	2592.99	1	19.70	20.70	1.259	-	-	0.13	0.591	0.744
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 1	-	ECI 3	518598	2592.99	1	19.65	20.70	1.274	-	-	0.12	0.615	0.783
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	-	ECI 3	518598	2592.99	1	19.73	20.70	1.250	-	-	0.07	0.620	0.775
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	-	ECI 3	518598	2592.99	1	19.70	20.70	1.259	-	-	0.08	0.595	0.749
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 1	-	ECI 3	518598	2592.99	1	19.65	20.70	1.274	-	-	0.19	0.591	0.753
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 1	-	ECI 4	518598	2592.99	1	23.15	24.00	1.216	-	-	0.01	0.130	0.158
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 1	-	ECI 4	518598	2592.99	1	23.15	24.00	1.216	-	-	-0.15	0.185	0.225
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 4	-	ECI 3	518598	2592.99	1	18.29	19.40	1.291	-	-	0	0.271	0.350
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 4	-	ECI 3	518598	2592.99	1	18.25	19.40	1.303	-	-	-0.03	0.242	0.315
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	-	ECI 3	518598	2592.99	1	18.29	19.40	1.291	-	-	-0.12	0.674	0.870
64	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	-	ECI 3	518598	2592.99	1	18.25	19.40	1.303	-	-	0.01	0.683	0.890
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 4	-	ECI 3	518598	2592.99	1	18.23	19.40	1.309	-	-	-0.03	0.622	0.814
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 4	-	ECI 4	518598	2592.99	1	23.17	24.00	1.211	-	-	0.19	0.139	0.168
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 4	-	ECI 4	518598	2592.99	1	23.17	24.00	1.211	-	-	0.07	0.189	0.229
3500MHz																						
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	ECI 3	42590	3500	1	18.13	19.50	1.371	62.9	1.006	0.02	0.225	0.310
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 5	-	ECI 3	42590	3500	1	18.10	19.50	1.380	62.9	1.006	-0.03	0.182	0.253
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	ECI 3	42590	3500	1	18.13	19.50	1.371	62.9	1.006	0.03	0.494	0.681
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	ECI 3	42190	3460	1	18.05	19.50	1.396	62.9	1.006	0.07	0.404	0.568



FCC SAR Test Report

Report No. : FA530724

65	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	ECI 3	42990	3540	1	18.06	19.50	1.393	62.9	1.006	0.09	0.631	0.884
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	ECI 3	42590	3500	1	18.10	19.50	1.380	62.9	1.006	0.15	0.362	0.503
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Back	5mm	Ant 5	-	ECI 3	42590	3500	1	18.00	19.50	1.413	62.9	1.006	-0.08	0.358	0.509
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	17mm	Ant 5	-	ECI 4	42590	3500	1	23.04	24.00	1.247	62.9	1.006	-0.18	0.156	0.196
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	20mm	Ant 5	-	ECI 4	42590	3500	1	23.04	24.00	1.247	62.9	1.006	0.03	0.275	0.345
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	ECI 3	656000	3840	1	17.75	18.70	1.245	-	-	0.01	0.300	0.373
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	-	ECI 3	656000	3840	1	17.65	18.70	1.274	-	-	-0.11	0.328	0.418
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	656000	3840	1	17.75	18.70	1.245	-	-	-0.05	0.699	0.870
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	656000	3840	1	17.65	18.70	1.274	-	-	-0.09	0.709	0.903
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	656000	3840	1	17.58	18.70	1.294	-	-	0.14	0.620	0.802
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 5	-	ECI 4	656000	3840	1	23.12	24.00	1.225	-	-	-0.15	0.218	0.267
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 5	-	ECI 4	656000	3840	1	23.12	24.00	1.225	-	-	-0.15	0.437	0.535
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	656000	3840	2	17.65	18.70	1.274	-	-	0.18	0.689	0.877
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	656000	3840	3	17.65	18.70	1.274	-	-	0.14	0.645	0.821
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	-	ECI 3	656000	3840	1	13.30	14.30	1.259	-	-	-0.12	0.034	0.043
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	-	ECI 3	656000	3840	1	13.28	14.30	1.265	-	-	0.07	0.035	0.044
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	656000	3840	1	13.30	14.30	1.259	-	-	0.01	0.697	0.877
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	656000	3840	1	13.28	14.30	1.265	-	-	0.09	0.581	0.735
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	656000	3840	1	13.14	14.30	1.306	-	-	0.04	0.558	0.729
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 3	-	ECI 4	656000	3840	1	18.69	19.50	1.205	-	-	0.11	0.083	0.100
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 3	-	ECI 4	656000	3840	1	18.69	19.50	1.205	-	-	-0.08	0.117	0.141
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	656000	3840	2	13.30	14.30	1.259	-	-	-0.17	0.643	0.809
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	656000	3840	3	13.30	14.30	1.259	-	-	0.17	0.602	0.758
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	-	ECI 3	656000	3840	1	19.55	20.40	1.216	-	-	-0.13	0.373	0.454
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	-	ECI 3	656000	3840	1	19.52	20.40	1.225	-	-	0.12	0.328	0.402
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	ECI 3	656000	3840	1	19.55	20.40	1.216	-	-	0.17	0.623	0.758
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	-	ECI 3	656000	3840	1	19.52	20.40	1.225	-	-	-0.08	0.722	0.884
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	-	ECI 3	656000	3840	1	19.55	20.40	1.216	-	-	-0.16	0.623	0.758
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 7	-	ECI 4	656000	3840	1	22.94	24.00	1.276	-	-	-0.17	0.098	0.125
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 7	-	ECI 4	656000	3840	1	22.94	24.00	1.276	-	-	-0.08	0.344	0.439
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	-	ECI 3	656000	3840	1	19.26	20.50	1.330	-	-	0.11	0.468	0.623
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	-	ECI 3	656000	3840	1	19.14	20.50	1.368	-	-	-0.05	0.402	0.550
66	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	-	ECI 3	656000	3840	1	19.26	20.50	1.330	-	-	-0.07	0.843	1.122
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	-	ECI 3	656000	3840	1	19.14	20.50	1.368	-	-	-0.01	0.737	1.008
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 9	-	ECI 3	656000	3840	1	19.02	20.50	1.406	-	-	-0.14	0.709	0.997
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 9	-	ECI 4	656000	3840	1	19.26	20.50	1.330	-	-	-0.04	0.074	0.098
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 9	-	ECI 4	656000	3840	1	19.26	20.50	1.330	-	-	-0.08	0.142	0.189



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	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)
BT&WLAN																		
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6	-	Standalone	6	2437	1	18.36	19.50	1.300	99.14	1.009	-0.15	0.656	0.861
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6	-	Standalone	1	2412	1	18.24	19.50	1.337	99.14	1.009	-0.12	0.539	0.727
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6	-	Standalone	11	2462	1	18.19	19.50	1.352	99.14	1.009	-0.17	0.615	0.839
67	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	6	2437	1	18.36	19.50	1.300	99.14	1.009	-0.08	0.914	1.199
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	6	2437	2	18.36	19.50	1.300	99.14	1.009	-0.05	0.867	1.137
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	6	2437	3	18.36	19.50	1.300	99.14	1.009	0.01	0.823	1.080
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	1	2412	1	18.24	19.50	1.337	99.14	1.009	0.08	0.827	1.115
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	11	2462	1	18.19	19.50	1.352	99.14	1.009	0.01	0.835	1.139
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6	-	Simultaneous	6	2437	1	13.36	14.50	1.300	99.14	1.009	0.12	0.209	0.274
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Simultaneous	6	2437	1	13.36	14.50	1.300	99.14	1.009	0.08	0.292	0.383
	WLAN2.4GHz	802.11b 1Mbps	Front	17mm	Ant 6	-	Full power	6	2437	1	18.51	20.00	1.409	99.14	1.009	0.17	0.111	0.158
	WLAN2.4GHz	802.11b 1Mbps	Back	20mm	Ant 6	-	Full power	6	2437	1	18.51	20.00	1.409	99.14	1.009	0.18	0.089	0.127
	Bluetooth	1Mbps	Front	5mm	Ant 6	-	Full power	78	2480	1	16.21	17.00	1.199	76.94	1.083	-0.11	0.263	0.342
68	Bluetooth	1Mbps	Back	5mm	Ant 6	-	Full power	78	2480	1	16.21	17.00	1.199	76.94	1.083	-0.01	0.331	0.430
	Bluetooth	1Mbps	Front	17mm	Ant 6	-	Full power	78	2480	1	16.21	17.00	1.199	76.94	1.083	0.02	0.051	0.066
	Bluetooth	1Mbps	Back	20mm	Ant 6	-	Full power	78	2480	1	16.21	17.00	1.199	76.94	1.083	0.08	0.040	0.052
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	-	Standalone	58	5290	1	13.53	14.50	1.250	87.5	1.143	0.09	0.350	0.500
69	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Standalone	58	5290	1	13.53	14.50	1.250	87.5	1.143	0.05	0.740	1.058
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Standalone	58	5290	2	13.53	14.50	1.250	87.5	1.143	0.1	0.698	0.997
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Standalone	58	5290	3	13.53	14.50	1.250	87.5	1.143	-0.17	0.632	0.903
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	-	Simultaneous	58	5290	1	8.74	10.00	1.337	87.5	1.143	-0.17	0.125	0.191
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Simultaneous	58	5290	1	8.74	10.00	1.337	87.5	1.143	-0.03	0.171	0.261
	WLAN5.3GHz	802.11a 6Mbps	Front	17mm	Ant 5	-	Full power	64	5320	1	18.30	19.50	1.317	96.96	1.031	-0.04	0.222	0.301
	WLAN5.3GHz	802.11a 6Mbps	Back	20mm	Ant 5	-	Full power	64	5320	1	18.30	19.50	1.317	96.96	1.031	-0.08	0.251	0.341
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	-	Standalone	122	5610	1	14.72	16.50	1.507	87.5	1.143	-0.04	0.355	0.611
70	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Standalone	122	5610	1	14.72	16.50	1.507	87.5	1.143	0.03	0.669	1.152
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Standalone	122	5610	2	14.72	16.50	1.507	87.5	1.143	0.04	0.611	1.052
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Standalone	122	5610	3	14.72	16.50	1.507	87.5	1.143	-0.01	0.632	1.088
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Standalone	106	5530	1	14.66	16.50	1.528	87.5	1.143	0.09	0.608	1.062
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Standalone	138	5690	1	14.62	16.50	1.542	87.5	1.143	0.03	0.569	1.003
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	-	Simultaneous	122	5610	1	10.39	12.00	1.449	87.5	1.143	0.14	0.162	0.268
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Simultaneous	122	5610	1	10.39	12.00	1.449	87.5	1.143	0.11	0.151	0.250
	WLAN5.5GHz	802.11a 6Mbps	Front	17mm	Ant 5	-	Full power	116	5580	1	18.07	19.50	1.389	96.96	1.031	-0.13	0.192	0.275
	WLAN5.5GHz	802.11a 6Mbps	Back	20mm	Ant 5	-	Full power	116	5580	1	18.07	19.50	1.389	96.96	1.031	-0.13	0.198	0.283
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	-	Standalone	155	5775	1	15.66	17.50	1.528	87.5	1.143	0.05	0.279	0.487
71	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Standalone	155	5775	1	15.66	17.50	1.528	87.5	1.143	0.06	0.632	1.103
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Standalone	155	5775	2	15.66	17.50	1.528	87.5	1.143	-0.08	0.589	1.028
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Standalone	155	5775	3	15.66	17.50	1.528	87.5	1.143	0.05	0.531	0.927
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	-	Simultaneous	155	5775	1	10.71	12.50	1.510	87.5	1.143	-0.05	0.101	0.174
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	-	Simultaneous	155	5775	1	10.71	12.50	1.510	87.5	1.143	0.18	0.151	0.261
	WLAN5.8GHz	802.11a 6Mbps	Front	17mm	Ant 5	-	Full power	149	5745	1	17.92	19.50	1.437	96.96	1.031	-0.03	0.121	0.179
	WLAN5.8GHz	802.11a 6Mbps	Back	20mm	Ant 5	-	Full power	149	5745	1	17.92	19.50	1.437	96.96	1.031	-0.03	0.238	0.353



16.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	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)
750MHz																					
93	LTE Band 13	10M	QPSK	1	0		Back	0mm	Ant 0	ECI 6	23230	782	1	22.86	24.00	1.300	-	-	-0.06	1.390	1.807
	LTE Band 13	10M	QPSK	25	0		Back	0mm	Ant 0	ECI 6	23230	782	1	21.91	23.00	1.285	-	-	-0.03	1.130	1.452
835MHz																					
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 0	ECI 6	189	836.4	1	27.16	28.50	1.361	-	-	-0.03	1.910	2.600
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 0	ECI 6	128	824.2	1	27.25	28.50	1.334	-	-	0.17	1.890	2.520
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 0	ECI 6	251	848.8	1	27.15	28.50	1.365	-	-	-0.14	1.970	2.688
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	ECI 6	189	836.4	1	27.16	28.50	1.361	-	-	0.06	2.110	2.873
72	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	ECI 6	128	824.2	1	27.25	28.50	1.334	-	-	-0.06	2.310	3.080
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	ECI 6	251	848.8	1	27.15	28.50	1.365	-	-	-0.06	2.130	2.907
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	0mm	Ant 0	ECI 6	189	836.4	1	27.16	28.50	1.361	-	-	-0.15	1.460	1.988
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	ECI 6	189	836.4	1	27.16	28.50	1.361	-	-	-0.12	1.940	2.641
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	ECI 6	128	824.2	1	27.25	28.50	1.334	-	-	-0.16	2.190	2.920
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	ECI 6	251	848.8	1	27.15	28.50	1.365	-	-	-0.03	2.110	2.879
73	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	ECI 6	4132	826.4	1	22.53	24.00	1.403	-	-	0.02	1.560	2.188
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	ECI 6	4233	846.6	1	22.49	24.00	1.416	-	-	0.03	1.500	2.124
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	ECI 6	4182	836.4	1	22.58	24.00	1.387	-	-	0.15	1.430	1.983
74	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 0	ECI 6	26865	831.5	1	22.65	24.00	1.365	-	-	0.05	1.860	2.538
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 0	ECI 6	26865	831.5	1	21.64	23.00	1.368	-	-	0.03	1.430	1.956
	LTE Band 26	15M	QPSK	75	0	-	Back	0mm	Ant 0	ECI 6	26865	831.5	1	21.73	23.00	1.340	-	-	0.03	1.510	2.023
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	26865	831.5	1	22.61	24.00	1.377	-	-	0.18	0.953	1.312
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 4	ECI 6	26865	831.5	1	21.59	23.00	1.384	-	-	0.02	0.946	1.309
	LTE Band 26	15M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	26865	831.5	1	22.61	24.00	1.377	-	-	0.08	1.790	2.465
	LTE Band 26	15M	QPSK	36	0	-	Top Side	0mm	Ant 4	ECI 6	26865	831.5	1	21.59	23.00	1.384	-	-	0.16	1.350	1.868
	LTE Band 26	15M	QPSK	75	0	-	Top Side	0mm	Ant 4	ECI 6	26865	831.5	1	21.58	23.00	1.387	-	-	0.06	1.290	1.789
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	1413	1732.6	1	20.05	21.10	1.274	-	-	0.01	1.180	1.503
75	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 6	1413	1732.6	1	20.05	21.10	1.274	-	-	-0.03	1.230	1.566
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	ECI 6	1413	1732.6	1	20.05	21.10	1.274	-	-	-0.08	0.816	1.039
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 4	1413	1732.6	1	22.72	24.00	1.343	-	-	0.18	0.794	1.066
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 4	1413	1732.6	1	22.72	24.00	1.343	-	-	0.16	0.801	1.076
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	ECI 4	1413	1732.6	1	22.72	24.00	1.343	-	-	-0.1	0.517	0.694
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	132322	1745	1	21.20	22.20	1.259	-	-	-0.04	1.450	1.825
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	132322	1745	1	21.17	22.20	1.268	-	-	0.18	1.110	1.407
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	132322	1745	1	21.20	22.20	1.259	-	-	-0.09	1.490	1.876
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	132322	1745	1	21.17	22.20	1.268	-	-	-0.03	1.180	1.496
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	132322	1745	1	21.20	22.20	1.259	-	-	0.05	1.000	1.259
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	132322	1745	1	21.17	22.20	1.268	-	-	0.03	0.767	0.972
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	132322	1745	1	21.20	22.20	1.259	-	-	0.05	1.350	1.700
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 4	132322	1745	1	22.93	24.00	1.279	-	-	0.07	0.908	1.162
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 4	132322	1745	1	22.93	24.00	1.279	-	-	0.18	0.928	1.187
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	ECI 4	132322	1745	1	22.93	24.00	1.279	-	-	-0.1	0.609	0.779
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 4	ECI 6	132322	1745	1	20.67	22.20	1.422	-	-	-0.17	0.947	1.347
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 4	ECI 6	132322	1745	1	20.62	22.20	1.439	-	-	0	0.720	1.036
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	132322	1745	1	20.67	22.20	1.422	-	-	0.05	1.040	1.479
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 6	132322	1745	1	20.62	22.20	1.439	-	-	0.17	0.965	1.388
76	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	132322	1745	1	20.67	22.20	1.422	-	-	-0.06	1.740	2.475
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	132072	1720	1	20.59	22.20	1.449	-	-	-0.15	1.700	2.463
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	132572	1770	1	20.58	22.20	1.452	-	-	0.11	1.680	2.440
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	132322	1745	1	20.62	22.20	1.439	-	-	-0.02	1.340	1.928
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	ECI 6	132322	1745	1	20.58	22.20	1.452	-	-	0.13	1.330	1.931



FCC SAR Test Report

Report No. : FA530724

	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 4	132322	1745	1	22.53	24.00	1.403	-	-	0.01	0.551	0.773
	LTE Band 66	20M	QPSK	1	0	-	Back	11mm	Ant 4	ECI 4	132322	1745	1	22.53	24.00	1.403	-	-	-0.15	0.427	0.599
	LTE Band 66	20M	QPSK	1	0	-	Top Side	9mm	Ant 4	ECI 4	132322	1745	1	22.53	24.00	1.403	-	-	0.19	0.639	0.896
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	349000	1745	1	22.76	23.80	1.271	-	-	-0.12	1.700	2.160
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	349000	1745	1	22.75	23.80	1.274	-	-	0.07	1.820	2.318
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	349000	1745	1	22.75	23.80	1.274	-	-	-0.02	1.870	2.381
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	349000	1745	1	22.76	23.80	1.271	-	-	-0.05	1.870	2.376
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	349000	1745	1	22.75	23.80	1.274	-	-	-0.13	1.950	2.483
77	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	349000	1745	1	22.75	23.80	1.274	-	-	-0.08	1.970	2.509
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	349000	1745	1	22.76	23.80	1.271	-	-	0.08	1.280	1.626
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	349000	1745	1	22.75	23.80	1.274	-	-	0.16	1.370	1.745
	FR1 n66 Other PA	45M	QPSK	240	0	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	349000	1745	1	22.75	23.80	1.274	-	-	0.05	1.870	2.381
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 4	349000	1745	1	23.34	24.00	1.164	-	-	0.07	0.639	0.744
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 4	349000	1745	1	23.34	24.00	1.164	-	-	-0.18	0.632	0.736
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	ECI 4	349000	1745	1	23.34	24.00	1.164	-	-	0.03	0.426	0.496
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 4	ECI 6	349000	1745	1	21.61	22.30	1.172	-	-	-0.02	1.100	1.289
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Front	0mm	Ant 4	ECI 6	349000	1745	1	21.55	22.30	1.189	-	-	-0.09	1.100	1.307
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 4	ECI 6	349000	1745	1	21.61	22.30	1.172	-	-	0.1	1.130	1.325
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Back	0mm	Ant 4	ECI 6	349000	1745	1	21.55	22.30	1.189	-	-	-0.09	1.110	1.319
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	349000	1745	1	21.61	22.30	1.172	-	-	-0.09	2.030	2.380
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	349000	1745	1	21.55	22.30	1.189	-	-	-0.03	2.090	2.484
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	349000	1745	1	21.25	22.30	1.274	-	-	-0.16	1.900	2.420
	FR1 n66 Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	349000	1745	1	21.55	22.30	1.189	-	-	0.03	1.850	2.199
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 4	349000	1745	1	23.02	24.00	1.253	-	-	-0.15	0.401	0.503
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Back	11mm	Ant 4	ECI 4	349000	1745	1	23.02	24.00	1.253	-	-	-0.15	0.320	0.401
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Top Side	9mm	Ant 4	ECI 4	349000	1745	1	23.02	24.00	1.253	-	-	0.11	0.510	0.639
1900MHz																					
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 1	ECI 6	661	1880	1	25.39	26.50	1.291	-	-	-0.11	1.870	2.415
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 1	ECI 6	512	1850.2	1	25.39	26.50	1.291	-	-	0.14	1.940	2.505
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 1	ECI 6	810	1909.8	1	25.36	26.50	1.300	-	-	0.03	1.860	2.418
78	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 1	ECI 6	661	1880	1	25.39	26.50	1.291	-	-	0.01	1.950	2.518
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 1	ECI 6	512	1850.2	1	25.39	26.50	1.291	-	-	0.1	1.800	2.324
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 1	ECI 6	810	1909.8	1	25.36	26.50	1.300	-	-	0.16	1.680	2.184
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 1	ECI 6	661	1880	1	25.39	26.50	1.291	-	-	-0.06	1.380	1.782
79	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	9400	1880	1	22.10	23.10	1.259	-	-	-0.01	2.640	3.324
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	9262	1852.4	1	22.04	23.10	1.276	-	-	0.19	2.570	3.280
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	9538	1907.6	1	22.08	23.10	1.265	-	-	-0.14	2.170	2.744
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 6	9400	1880	1	22.10	23.10	1.259	-	-	-0.18	2.110	2.656
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 6	9262	1852.4	1	22.04	23.10	1.276	-	-	-0.06	2.050	2.617
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 6	9538	1907.6	1	22.08	23.10	1.265	-	-	0.02	2.080	2.631
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	ECI 6	9400	1880	1	22.10	23.10	1.259	-	-	0.16	2.100	2.644
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	ECI 6	9262	1852.4	1	22.04	23.10	1.276	-	-	0.01	1.730	2.208
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	ECI 6	9538	1907.6	1	22.08	23.10	1.265	-	-	-0.04	1.880	2.378
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 4	9400	1880	1	22.70	24.00	1.349	-	-	0.01	0.793	1.070
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 4	9400	1880	1	22.70	24.00	1.349	-	-	0.09	0.810	1.093
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	ECI 4	9400	1880	1	22.70	24.00	1.349	-	-	0.01	0.497	0.670
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	26340	1880	1	21.75	22.80	1.274	-	-	-0.16	1.770	2.254
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	26140	1860	1	21.72	22.80	1.282	-	-	-0.02	1.720	2.206
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	26590	1905	1	21.65	22.80	1.303	-	-	0.15	1.700	2.215
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	26340	1880	1	21.72	22.80	1.282	-	-	-0.09	1.370	1.757
	LTE Band 25	20M	QPSK	100	0	-	Front	0mm	Ant 1	ECI 6	26340	1880	1	21.70	22.80	1.288	-	-	-0.08	1.370	1.765
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	26340	1880	1	21.75	22.80	1.274	-	-	-0.03	1.840	2.343
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	26140	1860	1	21.72	22.80	1.282	-	-	0.16	1.810	2.321
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	26590	1905	1	21.65	22.80	1.303	-	-	0.05	1.750	2.281
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	26340	1880	1	21.72	22.80	1.282	-	-	0.05	1.500	1.923
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 1	ECI 6	26340	1880	1	21.70	22.80	1.288	-	-	0.02	1.490	1.919



FCC SAR Test Report

Report No. : FA530724

	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	26340	1880	1	21.75	22.80	1.274	-	-	0.07	1.500	1.910
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	26340	1880	1	21.72	22.80	1.282	-	-	-0.18	1.160	1.488
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	ECI 6	26340	1880	1	21.70	22.80	1.288	-	-	-0.03	1.170	1.507
	LTE Band 2 Other PA	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	18900	1880	1	21.72	22.80	1.282	-	-	0.03	1.050	1.346
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 4	26340	1880	1	22.93	24.00	1.279	-	-	-0.08	0.813	1.040
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 4	26340	1880	1	22.93	24.00	1.279	-	-	-0.17	0.815	1.043
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	ECI 4	26340	1880	1	22.93	24.00	1.279	-	-	-0.08	0.503	0.644
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 4	ECI 6	26340	1880	1	20.23	21.20	1.250	-	-	0.11	0.810	1.013
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 4	ECI 6	26340	1880	1	20.20	21.20	1.259	-	-	0.04	0.642	0.808
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	26340	1880	1	20.23	21.20	1.250	-	-	-0.16	1.190	1.488
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 6	26340	1880	1	20.20	21.20	1.259	-	-	-0.14	1.130	1.423
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	26340	1880	1	20.23	21.20	1.250	-	-	0.02	1.900	2.375
80	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	26140	1860	1	20.12	21.20	1.282	-	-	-0.07	1.920	2.462
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	26590	1905	1	20.08	21.20	1.294	-	-	0.12	1.740	2.252
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	26340	1880	1	20.20	21.20	1.259	-	-	-0.16	1.500	1.888
	LTE Band 25	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	ECI 6	26340	1880	1	20.15	21.20	1.274	-	-	-0.02	1.480	1.885
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 4	26340	1880	1	22.56	24.00	1.393	-	-	-0.04	0.658	0.917
	LTE Band 25	20M	QPSK	1	0	-	Back	11mm	Ant 4	ECI 4	26340	1880	1	22.56	24.00	1.393	-	-	-0.08	0.466	0.649
	LTE Band 25	20M	QPSK	1	0	-	Top Side	9mm	Ant 4	ECI 4	26340	1880	1	22.56	24.00	1.393	-	-	0.17	0.819	1.141
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	376000	1880	1	22.28	23.30	1.265	-	-	0.03	1.960	2.479
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	376000	1880	1	22.21	23.30	1.285	-	-	-0.13	1.920	2.468
	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	376000	1880	1	22.17	23.30	1.297	-	-	0.16	1.940	2.517
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	376000	1880	1	22.28	23.30	1.265	-	-	-0.15	2.050	2.593
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	376000	1880	1	22.21	23.30	1.285	-	-	-0.02	1.990	2.558
81	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	376000	1880	1	22.17	23.30	1.297	-	-	-0.15	2.130	2.763
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	376000	1880	1	22.28	23.30	1.265	-	-	-0.09	1.350	1.707
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 4	376000	1880	1	23.28	24.00	1.180	-	-	0.18	0.564	0.666
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 4	376000	1880	1	23.28	24.00	1.180	-	-	-0.04	0.559	0.660
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	ECI 4	376000	1880	1	23.28	24.00	1.180	-	-	-0.08	0.357	0.421
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 4	ECI 6	376000	1880	1	21.63	22.30	1.167	-	-	-0.17	1.060	1.237
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 4	ECI 6	376000	1880	1	21.55	22.30	1.189	-	-	-0.01	1.060	1.260
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	376000	1880	1	21.63	22.30	1.167	-	-	-0.01	2.100	2.450
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	376000	1880	1	21.55	22.30	1.189	-	-	0.14	1.980	2.353
	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	376000	1880	1	21.40	22.30	1.230	-	-	0.03	1.910	2.350
	FR1 n2 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	376000	1880	1	21.63	22.30	1.167	-	-	0.03	1.910	2.229
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	11mm	Ant 4	ECI 4	376000	1880	1	23.07	24.00	1.239	-	-	-0.13	0.298	0.369
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	9mm	Ant 4	ECI 4	376000	1880	1	23.07	24.00	1.239	-	-	-0.13	0.512	0.634
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	21100	2535	1	20.55	21.40	1.216	-	-	-0.01	1.690	2.055
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	20850	2510	1	20.41	21.40	1.256	-	-	0.01	1.820	2.286
	LTE Band 7C	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	20850+ 21048	2510+ 2529.8	1	20.13	21.40	1.340	-	-	0.06	1.630	2.184
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	21350	2560	1	20.27	21.40	1.297	-	-	-0.08	1.620	2.101
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	21100	2535	1	20.43	21.40	1.250	-	-	0.05	1.200	1.500
	LTE Band 7	20M	QPSK	100	0	-	Front	0mm	Ant 1	ECI 6	21100	2535	1	20.42	21.40	1.253	-	-	-0.08	1.200	1.504
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	21100	2535	1	20.55	21.40	1.216	-	-	0.13	1.300	1.581
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	21100	2535	1	20.43	21.40	1.250	-	-	0.18	1.020	1.275
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	21100	2535	1	20.55	21.40	1.216	-	-	0.18	1.650	2.007
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	20850	2510	1	20.41	21.40	1.256	-	-	-0.1	1.790	2.248
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	21350	2560	1	20.27	21.40	1.297	-	-	0.01	1.750	2.270
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	21100	2535	1	20.43	21.40	1.250	-	-	-0.15	1.340	1.675
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	ECI 6	21100	2535	1	20.42	21.40	1.253	-	-	-0.18	1.370	1.717
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	20850	2510	1	20.41	21.40	1.256	-	-	0.09	1.740	2.185
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 4	21100	2535	1	22.84	24.00	1.306	-	-	0.06	0.814	1.063
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 4	21100	2535	1	22.84	24.00	1.306	-	-	-0.03	0.656	0.857
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	ECI 4	21100	2535	1	22.84	24.00	1.306	-	-	-0.03	0.468	0.611



FCC SAR Test Report

Report No. : FA530724

	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 4	ECI 6	21100	2535	1	18.88	19.80	1.236	-	-	0	0.760	0.939
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 4	ECI 6	21100	2535	1	18.79	19.80	1.262	-	-	-0.12	0.603	0.761
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	21100	2535	1	18.88	19.80	1.236	-	-	0.02	1.130	1.397
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 6	21100	2535	1	18.79	19.80	1.262	-	-	-0.1	1.070	1.350
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 4	ECI 6	21100	2535	1	18.88	19.80	1.236	-	-	0.15	0.868	1.073
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 4	ECI 6	21100	2535	1	18.79	19.80	1.262	-	-	-0.08	0.686	0.866
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	21100	2535	1	18.88	19.80	1.236	-	-	0.03	1.660	2.052
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	20850	2510	1	18.78	19.80	1.265	-	-	-0.05	1.700	2.150
82	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	21350	2560	1	18.65	19.80	1.303	-	-	-0.14	1.880	2.450
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	21100	2535	1	18.79	19.80	1.262	-	-	0.14	1.340	1.691
	LTE Band 7	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	ECI 6	21100	2535	1	18.60	19.80	1.318	-	-	0.07	1.600	2.109
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 4	21100	2535	1	22.73	24.00	1.340	-	-	0.08	0.453	0.607
	LTE Band 7	20M	QPSK	1	0	-	Back	11mm	Ant 4	ECI 4	21100	2535	1	22.73	24.00	1.340	-	-	-0.07	0.322	0.431
	LTE Band 7	20M	QPSK	1	0	-	Left Side	8mm	Ant 4	ECI 4	21100	2535	1	22.73	24.00	1.340	-	-	0.05	0.305	0.409
	LTE Band 7	20M	QPSK	1	0	-	Top Side	9mm	Ant 4	ECI 4	21100	2535	1	22.73	24.00	1.340	-	-	-0.11	0.494	0.662
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	40620	2593	1	23.05	24.00	1.245	62.9	1.006	-0.14	1.710	2.141
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	39750	2506	1	23.02	24.00	1.253	62.9	1.006	-0.06	1.490	1.878
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	40185	2549.5	1	22.83	24.00	1.309	62.9	1.006	-0.15	1.540	2.028
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	41055	2636.5	1	22.93	24.00	1.279	62.9	1.006	-0.08	1.870	2.407
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	41490	2680	1	23.02	24.00	1.253	62.9	1.006	-0.12	1.840	2.320
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	40620	2593	1	22.05	23.00	1.245	62.9	1.006	-0.16	1.410	1.765
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	ECI 6	40620	2593	1	22.10	23.00	1.230	62.9	1.006	-0.11	1.420	1.757
	LTE Band 41 Other PA	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	41055	2636.5	1	22.81	24.00	1.315	62.9	1.006	0.05	1.690	2.236
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	40620	2593	1	21.78	22.90	1.294	62.9	1.006	-0.09	0.986	1.284
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 6	40620	2593	1	21.76	22.90	1.300	62.9	1.006	-0.05	0.956	1.250
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	40620	2593	1	21.78	22.90	1.294	62.9	1.006	0.04	1.790	2.331
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	39750	2506	1	21.64	22.90	1.337	62.9	1.006	-0.04	1.600	2.151
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	40185	2549.5	1	21.67	22.90	1.327	62.9	1.006	0.14	1.620	2.163
83	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	41055	2636.5	1	21.70	22.90	1.318	62.9	1.006	-0.01	1.860	2.467
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	41490	2680	1	21.64	22.90	1.337	62.9	1.006	0.03	1.650	2.219
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	40620	2593	1	21.76	22.90	1.300	62.9	1.006	0.16	1.510	1.975
	LTE Band 41	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	ECI 6	40620	2593	1	21.75	22.90	1.303	62.9	1.006	-0.12	1.520	1.993
	LTE Band 41	20M	QPSK	1	0	-	Back	11mm	Ant 4	ECI 4	40620	2593	1	22.99	24.00	1.262	62.9	1.006	0.08	0.468	0.594
	LTE Band 41	20M	QPSK	1	0	-	Top Side	9mm	Ant 4	ECI 4	40620	2593	1	22.99	24.00	1.262	62.9	1.006	0.01	0.739	0.938
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	507000	2535	1	21.16	22.10	1.242	-	-	-0.06	1.750	2.173
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	507000	2535	1	21.08	22.10	1.265	-	-	0.08	1.730	2.188
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	507000	2535	1	20.82	22.10	1.343	-	-	-0.07	1.840	2.471
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	507000	2535	1	21.16	22.10	1.242	-	-	0.11	1.330	1.651
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	507000	2535	1	21.08	22.10	1.265	-	-	-0.13	1.080	1.366
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	507000	2535	1	21.16	22.10	1.242	-	-	0.17	1.980	2.458
84	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	507000	2535	1	21.08	22.10	1.265	-	-	-0.05	2.250	2.846
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	507000	2535	1	20.82	22.10	1.343	-	-	-0.1	2.020	2.712
	FR1 n7 Other PA	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	507000	2535	1	21.08	22.10	1.265	-	-	-0.02	2.170	2.744
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 4	507000	2535	1	23.08	24.00	1.236	-	-	-0.12	0.689	0.852
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 4	507000	2535	1	23.08	24.00	1.236	-	-	0.03	0.559	0.691
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	ECI 4	507000	2535	1	23.08	24.00	1.236	-	-	-0.16	0.354	0.438
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 4	ECI 6	507000	2535	1	21.13	22.00	1.222	-	-	-0.05	0.904	1.105
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	0mm	Ant 4	ECI 6	507000	2535	1	21.02	22.00	1.253	-	-	-0.04	0.904	1.133
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 4	ECI 6	507000	2535	1	21.13	22.00	1.222	-	-	-0.09	0.948	1.158
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	0mm	Ant 4	ECI 6	507000	2535	1	21.02	22.00	1.253	-	-	0.03	0.937	1.174
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	507000	2535	1	21.13	22.00	1.222	-	-	-0.16	1.890	2.309
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	507000	2535	1	21.02	22.00	1.253	-	-	-0.04	2.010	2.519
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	507000	2535	1	20.85	22.00	1.303	-	-	0.15	1.880	2.450
	FR1 n7 Other PA	50M	QPSK	135	68	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	507000	2535	1	21.02	22.00	1.253	-	-	-0.08	1.91	2.393
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 4	507000	2535	1	23.05	24.00	1.245	-	-	-0.02	0.398	0.495
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	11mm	Ant 4	ECI 4	507000	2535	1	23.05	24.00	1.245	-	-	0.15	0.288	0.358



FCC SAR Test Report

Report No. : FA530724

	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Top Side	9mm	Ant 4	ECI 4	507000	2535	1	23.05	24.00	1.245	-	-	-0.09	0.424	0.528
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 1	ECI 6	518598	2592.99	1	20.25	21.20	1.245	-	-	-0.07	1.580	1.966
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 1	ECI 6	518598	2592.99	1	20.17	21.20	1.268	-	-	-0.03	1.540	1.952
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 1	ECI 6	518598	2592.99	1	20.25	21.20	1.245	-	-	0.05	1.480	1.842
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 1	ECI 6	518598	2592.99	1	20.17	21.20	1.268	-	-	-0.15	1.560	1.978
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 1	ECI 6	518598	2592.99	1	20.25	21.20	1.245	-	-	0.07	2.010	2.501
85	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 1	ECI 6	518598	2592.99	1	20.17	21.20	1.268	-	-	-0.05	2.430	3.080
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	0mm	Ant 1	ECI 6	518598	2592.99	1	19.94	21.20	1.337	-	-	0.01	2.260	3.021
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	ECI 4	518598	2592.99	1	23.15	24.00	1.216	-	-	0.11	0.661	0.804
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	ECI 4	518598	2592.99	1	23.15	24.00	1.216	-	-	-0.05	0.518	0.630
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 1	ECI 4	518598	2592.99	1	23.15	24.00	1.216	-	-	-0.08	0.326	0.396
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	ECI 6	518598	2592.99	1	19.76	20.80	1.271	-	-	-0.05	0.747	0.949
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 4	ECI 6	518598	2592.99	1	19.67	20.80	1.297	-	-	-0.12	0.657	0.852
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 4	ECI 6	518598	2592.99	1	19.76	20.80	1.271	-	-	0.14	0.734	0.933
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 4	ECI 6	518598	2592.99	1	19.67	20.80	1.297	-	-	0.03	0.709	0.920
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 4	ECI 6	518598	2592.99	1	19.76	20.80	1.271	-	-	-0.13	0.739	0.939
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 4	ECI 6	518598	2592.99	1	19.67	20.80	1.297	-	-	-0.09	0.640	0.830
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 4	ECI 6	518598	2592.99	1	19.76	20.80	1.271	-	-	0.12	1.670	2.122
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 4	ECI 6	518598	2592.99	1	19.67	20.80	1.297	-	-	0.02	1.920	2.491
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	0mm	Ant 4	ECI 6	518598	2592.99	1	19.48	20.80	1.355	-	-	0.11	1.910	2.588
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 4	ECI 4	518598	2592.99	1	23.17	24.00	1.211	-	-	0.16	0.383	0.464
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	11mm	Ant 4	ECI 4	518598	2592.99	1	23.17	24.00	1.211	-	-	0.05	0.265	0.321
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	8mm	Ant 4	ECI 4	518598	2592.99	1	23.17	24.00	1.211	-	-	0.05	0.237	0.287
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	9mm	Ant 4	ECI 4	518598	2592.99	1	23.17	24.00	1.211	-	-	-0.03	0.433	0.524
3500MHz																					
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	0mm	Ant 5	ECI 6	42590	3500	1	20.93	21.40	1.114	62.9	1.006	-0.09	0.927	1.039
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	0mm	Ant 5	ECI 6	42590	3500	1	20.90	21.40	1.122	62.9	1.006	-0.18	0.751	0.848
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	0mm	Ant 5	ECI 6	42590	3500	1	20.93	21.40	1.114	62.9	1.006	0.07	1.030	1.155
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	0mm	Ant 5	ECI 6	42590	3500	1	20.90	21.40	1.122	62.9	1.006	-0.08	0.787	0.888
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	0mm	Ant 5	ECI 6	42590	3500	1	20.93	21.40	1.114	62.9	1.006	0.02	2.030	2.276
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	0mm	Ant 5	ECI 6	42190	3460	1	20.77	21.40	1.156	62.9	1.006	-0.07	2.100	2.442
86	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	0mm	Ant 5	ECI 6	42990	3540	1	20.80	21.40	1.148	62.9	1.006	0.01	2.160	2.495
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Top Side	0mm	Ant 5	ECI 6	42590	3500	1	20.90	21.40	1.122	62.9	1.006	-0.08	1.710	1.930
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Top Side	0mm	Ant 5	ECI 6	42590	3500	1	20.82	21.40	1.143	62.9	1.006	-0.05	1.700	1.955
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	13mm	Ant 5	ECI 4	42590	3500	1	23.04	24.00	1.247	62.9	1.006	-0.15	0.122	0.153
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	18mm	Ant 5	ECI 4	42590	3500	1	23.04	24.00	1.247	62.9	1.006	0.02	0.160	0.201
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	13mm	Ant 5	ECI 4	42590	3500	1	23.04	24.00	1.247	62.9	1.006	0.07	0.382	0.479
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 5	ECI 6	656000	3840	1	19.25	20.30	1.274	-	-	-0.07	0.656	0.835
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 5	ECI 6	656000	3840	1	19.15	20.30	1.303	-	-	0.05	0.784	1.022
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 5	ECI 6	656000	3840	1	19.25	20.30	1.274	-	-	-0.12	0.616	0.784
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 5	ECI 6	656000	3840	1	19.15	20.30	1.303	-	-	0.03	0.775	1.010
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 5	ECI 6	656000	3840	1	19.25	20.30	1.274	-	-	-0.02	1.680	2.139
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 5	ECI 6	656000	3840	1	19.15	20.30	1.303	-	-	0.01	1.900	2.476
	FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	0mm	Ant 5	ECI 6	656000	3840	1	18.85	20.30	1.396	-	-	0.15	1.600	2.234
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	13mm	Ant 5	ECI 4	656000	3840	1	23.12	24.00	1.225	-	-	0.16	0.144	0.176
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	18mm	Ant 5	ECI 4	656000	3840	1	23.12	24.00	1.225	-	-	0.13	0.211	0.258
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	13mm	Ant 5	ECI 4	656000	3840	1	23.12	24.00	1.225	-	-	-0.18	0.430	0.527
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 3	ECI 6	656000	3840	1	18.69	19.50	1.205	-	-	0.07	1.150	1.386
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	ECI 6	656000	3840	1	18.49	19.50	1.262	-	-	-0.17	1.020	1.287
	FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 3	ECI 6	656000	3840	1	18.32	19.50	1.312	-	-	-0.08	0.965	1.266
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 7	ECI 6	656000	3840	1	22.03	23.20	1.309	-	-	-0.09	1.630	2.134
87	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 7	ECI 6	656000	3840	1	21.90	23.20	1.349	-	-	0.05	1.840	2.482



FCC SAR Test Report

Report No. : FA530724

FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 7	ECI 6	656000	3840	1	21.69	23.20	1.416	-	-	-0.08	1.360	1.925
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	ECI 6	656000	3840	1	22.03	23.20	1.309	-	-	0.13	0.758	0.992
FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 7	ECI 6	656000	3840	1	21.90	23.20	1.349	-	-	0.12	0.742	1.001
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 7	ECI 6	656000	3840	1	22.03	23.20	1.309	-	-	0.18	0.986	1.291
FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 7	ECI 6	656000	3840	1	21.90	23.20	1.349	-	-	0.16	1.000	1.349
FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	0mm	Ant 7	ECI 6	656000	3840	1	21.69	23.20	1.416	-	-	-0.1	0.979	1.386
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 7	ECI 6	656000	3840	1	22.03	23.20	1.309	-	-	0.07	0.690	0.903
FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 7	ECI 6	656000	3840	1	21.90	23.20	1.349	-	-	0.18	0.690	0.931
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	13mm	Ant 7	ECI 4	656000	3840	1	22.94	24.00	1.276	-	-	0.02	0.095	0.121
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	18mm	Ant 7	ECI 4	656000	3840	1	22.94	24.00	1.276	-	-	0.16	0.180	0.230
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	17mm	Ant 7	ECI 4	656000	3840	1	22.94	24.00	1.276	-	-	-0.03	0.088	0.112
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	13mm	Ant 7	ECI 4	656000	3840	1	22.94	24.00	1.276	-	-	0.07	0.243	0.310
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 9	ECI 6	656000	3840	1	19.26	19.80	1.132	-	-	-0.17	0.704	0.797
FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 9	ECI 6	656000	3840	1	19.14	19.80	1.164	-	-	-0.03	0.854	0.994
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 6	656000	3840	1	19.26	19.80	1.132	-	-	0.11	1.810	2.050
FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 6	656000	3840	1	19.14	19.80	1.164	-	-	0.07	1.960	2.282
FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 6	656000	3840	1	19.02	19.80	1.197	-	-	-0.05	1.780	2.130

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	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																	
88	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	Full power	6	2437	1	18.51	20.00	1.409	99.14	1.009	-0.01	0.856	1.217
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5	Standalone	46	5230	1	17.29	19.00	1.482	93.28	1.072	-0.08	0.778	1.236
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	Standalone	46	5230	1	17.29	19.00	1.482	93.28	1.072	0.1	0.670	1.064
89	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	46	5230	1	17.29	19.00	1.482	93.28	1.072	-0.01	1.990	3.161
	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Standalone	48	5240	1	17.24	19.00	1.500	96.96	1.031	-0.01	1.900	2.938
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	46	5230	2	17.29	19.00	1.482	93.28	1.072	0.12	1.940	3.082
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	46	5230	3	17.29	19.00	1.482	93.28	1.072	0.08	1.910	3.034
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	38	5190	1	14.69	16.00	1.351	93.28	1.072	0.12	1.560	2.260
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5	Simultaneous	42	5210	1	13.21	15.00	1.510	87.5	1.143	0.08	0.265	0.457
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Simultaneous	42	5210	1	13.21	15.00	1.510	87.5	1.143	0.01	0.233	0.402
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5	Simultaneous	42	5210	1	13.21	15.00	1.510	87.5	1.143	0.07	0.671	1.158
	WLAN5.2GHz	802.11a 6Mbps	Front	13mm	Ant 5	Full power	48	5240	1	18.24	19.50	1.335	96.96	1.031	0.01	0.101	0.139
	WLAN5.2GHz	802.11a 6Mbps	Back	18mm	Ant 5	Full power	48	5240	1	18.24	19.50	1.335	96.96	1.031	0.05	0.120	0.165
	WLAN5.2GHz	802.11a 6Mbps	Right Side	17mm	Ant 5	Full power	48	5240	1	18.24	19.50	1.335	96.96	1.031	0.09	0.099	0.136
	WLAN5.2GHz	802.11a 6Mbps	Top Side	13mm	Ant 5	Full power	48	5240	1	18.24	19.50	1.335	96.96	1.031	-0.01	0.313	0.431
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5	Standalone	54	5270	1	17.42	19.00	1.438	93.28	1.072	-0.17	0.718	1.107
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	Standalone	54	5270	1	17.42	19.00	1.438	93.28	1.072	-0.03	0.578	0.891
	WLAN5.3GHz	802.11a 6Mbps	Left Side	0mm	Ant 5	Full power	64	5320	1	18.30	19.50	1.317	96.96	1.031	0.14	0.339	0.460
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	54	5270	1	17.42	19.00	1.438	93.28	1.072	0.11	0.508	0.783
90	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	54	5270	1	17.42	19.00	1.438	93.28	1.072	-0.04	2.060	3.176
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Standalone	64	5320	1	17.30	19.00	1.479	96.96	1.031	0.01	1.950	2.974
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	62	5310	1	14.52	16.00	1.405	93.28	1.072	-0.05	1.310	1.974
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5	Simultaneous	58	5290	1	12.61	14.00	1.377	87.5	1.143	0.03	0.245	0.386
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Simultaneous	58	5290	1	12.61	14.00	1.377	87.5	1.143	-0.08	0.201	0.316
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	Simultaneous	58	5290	1	12.61	14.00	1.377	87.5	1.143	-0.08	0.189	0.298
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5	Simultaneous	58	5290	1	12.61	14.00	1.377	87.5	1.143	-0.02	0.698	1.099
	WLAN5.3GHz	802.11a 6Mbps	Front	13mm	Ant 5	Full power	64	5320	1	18.30	19.50	1.317	96.96	1.031	-0.04	0.107	0.145
	WLAN5.3GHz	802.11a 6Mbps	Back	18mm	Ant 5	Full power	64	5320	1	18.30	19.50	1.317	96.96	1.031	0.01	0.119	0.162
	WLAN5.3GHz	802.11a 6Mbps	Right Side	17mm	Ant 5	Full power	64	5320	1	18.30	19.50	1.317	96.96	1.031	-0.01	0.111	0.151
	WLAN5.3GHz	802.11a 6Mbps	Top Side	13mm	Ant 5	Full power	64	5320	1	18.30	19.50	1.317	96.96	1.031	-0.06	0.321	0.436
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5	Standalone	126	5630	1	17.25	19.00	1.496	93.28	1.072	0.14	0.486	0.779
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	Standalone	126	5630	1	17.25	19.00	1.496	93.28	1.072	-0.17	0.426	0.683
	WLAN5.5GHz	802.11a 6Mbps	Left Side	0mm	Ant 5	Full power	116	5580	1	18.07	19.50	1.389	96.96	1.031	0.17	0.432	0.618
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	126	5630	1	17.25	19.00	1.496	93.28	1.072	-0.05	0.232	0.372



FCC SAR Test Report

Report No. : FA530724

91	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	126	5630	1	17.25	19.00	1.496	93.28	1.072	0.02	1.800	2.886
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	126	5630	2	17.25	19.00	1.496	93.28	1.072	-0.18	1.750	2.806
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	126	5630	3	17.25	19.00	1.496	93.28	1.072	0.1	1.690	2.709
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	102	5510	1	16.11	17.50	1.377	93.28	1.072	0.01	1.430	2.110
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	110	5550	1	17.19	19.00	1.516	93.28	1.072	0.1	1.370	2.227
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	134	5670	1	17.15	19.00	1.530	93.28	1.072	-0.17	1.750	2.871
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	142	5710	1	17.10	19.00	1.548	93.28	1.072	0.04	1.520	2.522
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5	Simultaneous	122	5610	1	12.26	14.00	1.493	87.5	1.143	0.1	0.176	0.300
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Simultaneous	122	5610	1	12.26	14.00	1.493	87.5	1.143	0.12	0.152	0.259
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	Simultaneous	122	5610	1	12.26	14.00	1.493	87.5	1.143	0.08	0.110	0.188
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5	Simultaneous	122	5610	1	12.26	14.00	1.493	87.5	1.143	0.03	0.589	1.005
	WLAN5.5GHz	802.11a 6Mbps	Front	13mm	Ant 5	Full power	116	5580	1	18.07	19.50	1.389	96.96	1.031	-0.09	0.104	0.149
	WLAN5.5GHz	802.11a 6Mbps	Back	18mm	Ant 5	Full power	116	5580	1	18.07	19.50	1.389	96.96	1.031	-0.17	0.097	0.139
	WLAN5.5GHz	802.11a 6Mbps	Right Side	17mm	Ant 5	Full power	116	5580	1	18.07	19.50	1.389	96.96	1.031	-0.1	0.148	0.212
	WLAN5.5GHz	802.11a 6Mbps	Top Side	13mm	Ant 5	Full power	116	5580	1	18.07	19.50	1.389	96.96	1.031	0.18	0.259	0.371
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	Standalone	151	5755	1	17.18	18.50	1.355	93.28	1.072	-0.08	0.558	0.810
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	151	5755	1	17.18	18.50	1.355	93.28	1.072	0.13	0.591	0.858
92	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	151	5755	1	17.18	18.50	1.355	93.28	1.072	0.12	2.130	3.093
	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Standalone	149	5745	1	16.98	18.50	1.419	96.96	1.031	0.12	2.010	2.941
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	159	5795	1	17.02	18.50	1.405	93.28	1.072	0.03	2.030	3.058
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Simultaneous	155	5775	1	11.39	13.00	1.449	87.5	1.143	0.1	0.166	0.275
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	Simultaneous	155	5775	1	11.39	13.00	1.449	87.5	1.143	-0.18	0.171	0.283
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5	Simultaneous	155	5775	1	11.39	13.00	1.449	87.5	1.143	0.06	0.574	0.951
	WLAN5.8GHz	802.11a 6Mbps	Back	18mm	Ant 5	Full power	149	5745	1	17.92	19.50	1.437	96.96	1.031	-0.17	0.120	0.178
	WLAN5.8GHz	802.11a 6Mbps	Right Side	17mm	Ant 5	Full power	149	5745	1	17.92	19.50	1.437	96.96	1.031	-0.04	0.115	0.170
	WLAN5.8GHz	802.11a 6Mbps	Top Side	13mm	Ant 5	Full power	149	5745	1	17.92	19.50	1.437	96.96	1.031	-0.05	0.296	0.439
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	151	5755	2	17.18	19.00	1.520	93.28	1.072	0.03	1.760	2.867
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	151	5755	3	17.18	19.00	1.520	93.28	1.072	-0.08	1.890	3.079

16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	23230	782	22.86	24.00	1.300	-	-	0.01	0.961	1	1.249
2nd	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	23230	782	22.86	24.00	1.300	-	-	-0.06	0.926	1.038	1.204
1st	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 3	166300	831.5	22.75	23.50	1.189	-	-	-0.03	1.080	1	1.284
2nd	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 3	166300	831.5	22.75	23.50	1.189	-	-	0.11	0.999	1.081	1.187
1st	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	18.85	19.90	1.274	-	-	0.01	1.130	1	1.439
2nd	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	18.85	19.90	1.274	-	-	-0.04	1.040	1.087	1.324
1st	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 3	376000	1880	20.94	21.80	1.219	-	-	-0.01	1.160	1	1.414
2nd	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 3	376000	1880	20.94	21.80	1.219	-	-	0.03	1.030	1.126	1.256
1st	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	656000	3840	19.14	19.80	1.164	-	-	-0.05	1.110	1	1.292
2nd	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	656000	3840	19.14	19.80	1.164	-	-	0.01	0.969	1.146	1.128
1st	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 3	507000	2535	21.12	22.20	1.282	-	-	-0.04	1.050	1	1.346
2nd	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 3	507000	2535	21.12	22.20	1.282	-	-	0.06	0.895	1.173	1.148
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Back	5mm	Ant 6	Standalone	6	2437	18.36	19.50	1.300	99.14	1.009	-0.08	0.914	1	1.199
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Back	5mm	Ant 6	Standalone	6	2437	18.36	19.50	1.300	99.14	1.009	0.03	0.854	1.070	1.120

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	ECI 6	128	824.2	27.25	28.50	1.334	-	-	-0.06	2.310	1	3.080
2nd	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	ECI 6	128	824.2	27.25	28.50	1.334	-	-	-0.03	2.090	1.105	2.787
1st	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	349000	1745	21.55	22.30	1.189	-	-	-0.03	2.090	1	2.484
2nd	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	349000	1745	21.55	22.30	1.189	-	-	0.03	1.880	1.112	2.234
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	9400	1880	22.10	23.10	1.259	-	-	-0.01	2.640	1	3.324
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	9400	1880	22.10	23.10	1.259	-	-	0.01	2.550	1.035	3.210
1st	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 1	ECI 6	518598	2592.99	20.17	21.20	1.268	-	-	-0.05	2.430	1	3.080
2nd	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 1	ECI 6	518598	2592.99	20.17	21.20	1.268	-	-	-0.01	2.250	1.080	2.852
1st	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	0mm	Ant 5	ECI 6	42990	3540	20.80	21.40	1.148	62.9	1.006	0.01	2.160	1	2.495
2nd	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	0mm	Ant 5	ECI 6	42990	3540	20.80	21.40	1.148	62.9	1.006	0.03	1.990	1.085	2.299
1st	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	54	5270	17.42	19.00	1.438	93.28	1.072	-0.04	2.060	1	3.176
2nd	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	54	5270	17.42	19.00	1.438	93.28	1.072	-0.03	1.890	1.090	2.914
1st	WLAN5.8GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	151	5755	17.18	18.50	1.355	93.28	1.072	0.12	2.130	1	3.093
2nd	WLAN5.8GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	151	5755	17.18	18.50	1.355	93.28	1.072	0.01	2.010	1.060	2.919

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

17. Simultaneous Transmission Analysis

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

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands and EN-DC combination.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- For EN-DC mode, MediaTek TA-SAR Gen2 algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. TA-SAR Gen2 algorithm controls the total RF exposure from both 4G and 5G NR to not exceed SAR exposure limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In this Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- 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).
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz cannot transmit simultaneously.
- WLAN 2.4GHz and Bluetooth share the same antenna, and they cannot transmit simultaneously.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- For Headset SAR and non-Headset SAR always chose higher SAR to do co-located analysis.
- For distance SAR and non-distance SAR at extremity exposure conditions always chose higher SAR to do co-located analysis.
- For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT together. This is the worst co-located analysis and can represent each band.
- The maximum SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, 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.
 - If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - The SPLSR calculated results please refer to section 17.6.

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

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

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

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

$$\begin{aligned} x \cdot A + y \cdot B + m &\leq 1 \\ x + y &= g \leq 1 \\ g + m &\leq 1 \end{aligned}$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and $A \leq 1.0$; B is normalized reported time-averaged exposure ratio from 5G NR (i.e., PD exposure for 5G FR2 or SAR exposure for 5G FR1), and $B \leq 1.0$.

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

$$x \cdot A + y \cdot B + m \leq 1.0 \quad (1)$$

$$x \cdot A + y \cdot B \leq x \cdot \max(A, B) + (g-x) \cdot \max(A, B) \leq \max(A, B)$$

$$x \cdot A + (g-x) \cdot B + m \leq \max(A, B) + m \leq 1.0 \quad (2)$$

If $A + m \leq 1.0$ and $B + m \leq 1.0$ can be proven, then " $x \cdot A + y \cdot B + m \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

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

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

Else, if $A + m > 1.0$ and/or $B + m > 1.0$, then the followings need to hold true for compliance:

- i. A and m are decoupled based on the SPLSR criteria, and
- ii. $y \cdot B + m \leq 1.0$, and
- iii. $x \cdot A + y \cdot B \leq 1.0$

Note iii. is covered in Part 2 report; i. and ii. should be addressed in Part 1 report.

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

The device also enabled Mediatek's TA-SAR Gen2 algorithm to improve antenna performance by applying separate SAR budgets to each predefined antenna group. There are two predefined antenna groups of AG0, AG1, more detail as following table. Each antenna group is spatially separated to others. Simultaneous transmission analysis is performed per antenna group. Below analysis demonstrates the spatially separation of AG0, AG1, and the compliance between AG0 and BT/WLAN/NFC and between AG1 and BT/WLAN/NFC.

Thus, the concept was to split the SAR/TER on the transmitting RATs even they are transmitting on different antennas. Such approach is considered as a worst-case scenario in terms of transmitting power. Thus, to enhance the performance of the transmission power of RATs, consider the spatial properties of each antenna and the correlations between the antenna's transmissions.

SPLSR_Group (Antenna Group):

Antenna Group 0 (AG0)	ANT0 & ANT1& ANT9
Antenna Group 1 (AG1)	ANT3 & ANT4 & ANT5 & ANT7

Note that WLAN/BT operations are not enabled with TA-SAR Gen2 feature.

The verification of spatial separation of the antenna groups is demonstrated through the following steps, together with WIF/BT simultaneous transmission analysis results.

- The highest reported SAR at Plimit (or Pmax when Plimit > Pmax) for each antenna should be obtained out of all supported technologies and frequency bands for each power index. Demonstrate that the sum of reported SAR of one antenna from each of the antenna groups and the sum of RF exposure from all supported radios outside of TAS feature should be less than the regulatory limit as given below for each power index.
- If the sum of SAR from step i) is over 1.6 W/kg for 1g, demonstrate for a given power index that every antenna from one antenna group meets SPLSR criteria with every antenna in another antenna group for all frequency bands. SPLSR criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios, SPLSR Hotspot combination procedure (Hybrid SPLSR) also be considered for simultaneous transmission analysis.
- If SPLSR evaluation and analysis is needed to determine compliance for a certain power index configuration, SPLSR is performed by taking the highest summation SAR for each of the supported technologies and bands per antenna, along with the minimum of peak SAR location distance. The minimum of peak location distance is documented in the Highest Report SAR and Hotspot Location below for each power index configuration.
- In section 17.6 SPLSR analysis only evaluation Sim-Tx SAR configuration are rounded to two decimal higher or equal to 1.6W/kg.
- The analysis addresses the simultaneous transmission and the transition among non-simultaneous transmission radios

For summed SAR results and SPLSR detailed analysis, please refer to section 17.2/17.3 / 17.4 / 17.5 / 17.6 of this report. All of the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

17.2 Head Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	Ant9	MAX
Right Cheek	0.327	0.447	0.176	0.447
Right Tilted	0.173	0.199	0.073	0.199
Left Cheek	0.490	0.235	0.104	0.490
Left Tilted	0.197	0.205	0.137	0.205

<AG1 maximum reported SAR>:

Test Position	Ant3	Ant4	Ant5	Ant7	MAX
Right Cheek	0.195	0.906	0.658	0.205	0.906
Right Tilted	0.146	0.928	0.725	0.224	0.928
Left Cheek	0.072	0.628	0.622	0.608	0.628
Left Tilted	0.064	0.749	0.893	0.236	0.893

<WLAN2.4GHz/5GHz+BT Worse-case SAR>:

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant5	BT Ant 6	WLAN5GHz Ant5+BT Ant 6	WLAN +BT worst case
Right Cheek	0.167	0.158	0.074	0.232	0.232
Right Tilted	0.191	0.284	0.085	0.369	0.369
Left Cheek	0.419	0.393	0.241	0.634	0.634
Left Tilted	0.222	0.319	0.167	0.486	0.486

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG0	AG1	Wlan+BT worst case	AG0+AG1+ WLAN +BT worst case
Right Cheek	0.447	0.906	0.232	1.59
Right Tilted	0.199	0.928	0.369	1.50
Left Cheek	0.490	0.628	0.634	1.75
Left Tilted	0.205	0.893	0.486	1.58

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Left Cheek					
Ant combination	AG0	AG1	Wlan+BT worst case	AG0+AG1+ WLAN +BT worst case(DBS/XBS)	SPLSR
Ant0-Ant3	0.490	0.072	0.634	1.20	
Ant0-Ant4	0.490	0.628	0.634	1.75	1
Ant0-Ant5	0.490	0.622	0.634	1.75	2
Ant0-Ant7	0.490	0.608	0.634	1.73	3
Ant1-Ant3	0.235	0.072	0.634	0.94	
Ant1-Ant4	0.235	0.628	0.634	1.50	
Ant1-Ant5	0.235	0.622	0.634	1.49	
Ant1-Ant7	0.235	0.608	0.634	1.48	
Ant9-Ant3	0.104	0.072	0.634	0.81	
Ant9-Ant4	0.104	0.628	0.634	1.37	
Ant9-Ant5	0.104	0.622	0.634	1.36	
Ant9-Ant7	0.104	0.608	0.634	1.35	

<Simultaneous Transmission analysis of WLAN/BT only without WWAN>:

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant5	BT Ant 6	WLAN5GHz Ant5+BT Ant 6	WLAN +BT worst case
Right Cheek	0.167	0.158	0.074	0.23	0.23
Right Tilted	0.191	0.284	0.085	0.37	0.37
Left Cheek	0.419	0.393	0.241	0.63	0.63
Left Tilted	0.222	0.319	0.167	0.49	0.49

17.3 Hotspot Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	Ant9	MAX
Front	0.964	1.258	0.491	1.258
Back	1.430	1.214	0.887	1.430
Left Side	1.019	0.439	0.059	1.019
Right Side	0.235	0.338	1.292	1.292
Top Side				0.000
Bottom Side	1.073	1.449	0.336	1.449

<AG1 maximum reported SAR>:

Test Position	Ant3	Ant4	Ant5	Ant7	MAX
Front	0.031	0.347	0.216	0.321	0.347
Back	0.626	0.628	0.465	0.626	0.628
Left Side	0.163	0.517	0.066	0.056	0.517
Right Side	0.020	0.092	0.063	0.499	0.499
Top Side	0.028	0.633	0.633	0.357	0.633
Bottom Side					

<WLAN2.4GHz/5GHz+BT Worse-case SAR>:

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant5	BT Ant 6	WLAN5GHz Ant5+BT Ant 6	WLAN +BT worst case
Front	0.467	0.261	0.304	0.565	0.565
Back	0.659	0.530	0.430	0.960	0.960
Left Side	0.035	0.049	0.001	0.050	0.050
Right Side	0.462	0.364	0.286	0.650	0.650
Top Side	0.387	0.661	0.295	0.956	0.956
Bottom Side				0.000	0.000

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG0	AG1	Wlan+BT worst case	AG0+AG1+ WLAN +BT worst case
Front	1.258	0.347	0.565	2.17
Back	1.430	0.628	0.960	3.02
Left Side	1.019	0.517	0.050	1.59
Right Side	1.292	0.499	0.650	2.44
Top Side	0.000	0.633	0.956	1.59
Bottom Side	1.449	0.000	0.000	1.45

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.



Front					
Ant combination	AG0	AG1	Wlan+BT worst case	AG0+AG1+ WLAN +BT worst cas	SPLSR
	SAR	SAR			
Ant0-Ant3	0.964	0.031	0.565	1.56	
Ant0-Ant4	0.964	0.347	0.565	1.88	64
Ant0-Ant5	0.964	0.216	0.565	1.75	65
Ant0-Ant7	0.964	0.321	0.565	1.85	66
Ant1-Ant3	1.258	0.031	0.565	1.85	67
Ant1-Ant4	1.258	0.347	0.565	2.17	24
Ant1-Ant5	1.258	0.216	0.565	2.04	25
Ant1-Ant7	1.258	0.321	0.565	2.14	26
Ant9-Ant3	0.491	0.031	0.565	1.09	
Ant9-Ant4	0.491	0.347	0.565	1.40	
Ant9-Ant5	0.491	0.216	0.565	1.27	
Ant9-Ant7	0.491	0.321	0.565	1.38	

Back					
Ant combination	AG0	AG1	Wlan+BT worst case	AG0+AG1+ WLAN +BT worst cas	SPLSR
	SAR	SAR			
Ant0-Ant3	1.430	0.626	0.960	3.02	27
Ant0-Ant4	1.430	0.628	0.960	3.02	28
Ant0-Ant5	1.430	0.465	0.960	2.86	29
Ant0-Ant7	1.430	0.626	0.960	3.02	30
Ant1-Ant3	0.628	0.626	0.960	2.21	31
Ant1-Ant4	0.628	0.628	0.960	2.22	32
Ant1-Ant5	0.628	0.465	0.960	2.05	33
Ant1-Ant7	0.628	0.626	0.960	2.21	34
Ant9-Ant3	0.887	0.626	0.960	2.47	35
Ant9-Ant4	0.887	0.628	0.960	2.48	36
Ant9-Ant5	0.887	0.465	0.960	2.31	37
Ant9-Ant7	0.887	0.626	0.960	2.47	38

Right Side					
Ant combination	AG0	AG1	Wlan+BT worst case	AG0+AG1+ WLAN +BT worst cas	SPLSR
	SAR	SAR			
Ant0-Ant3	0.235	0.020	0.650	0.91	
Ant0-Ant4	0.235	0.092	0.650	0.98	
Ant0-Ant5	0.235	0.063	0.650	0.95	
Ant0-Ant7	0.235	0.499	0.650	1.38	
Ant1-Ant3	0.364	0.020	0.650	1.03	
Ant1-Ant4	0.364	0.092	0.650	1.11	
Ant1-Ant5	0.364	0.063	0.650	1.08	
Ant1-Ant7	0.364	0.499	0.650	1.51	
Ant9-Ant3	1.292	0.020	0.650	1.96	68
Ant9-Ant4	1.292	0.092	0.650	2.03	39
Ant9-Ant5	1.292	0.063	0.650	2.01	69
Ant9-Ant7	1.292	0.499	0.650	2.44	40



<Simultaneous Transmission analysis of WLAN/BT only without WWAN>:

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant5	BT Ant 6	WLAN5GHz Ant5+BT Ant 6	WLAN +BT worst case
Front	0.467	0.261	0.269	0.53	0.53
Back	0.659	0.530	0.381	0.91	0.91
Left Side	0.035	0.049	0.001	0.05	0.05
Right Side	0.462	0.364	0.253	0.62	0.62
Top Side	0.387	0.661	0.261	0.92	0.92
Bottom Side				0.00	0.00

17.4 Body-Worn Accessory Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	Ant9	MAX
Front	0.964	1.347	0.623	1.347
Back	1.430	1.414	1.122	1.430

<AG1 maximum reported SAR>:

Test Position	Ant3	Ant4	Ant5	Ant7	MAX
Front	0.044	0.515	0.418	0.454	0.515
Back	0.877	0.893	0.903	0.884	0.903

<WLAN2.4GHz/5GHz+BT Worst-case SAR>:

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant5	BT Ant 6	WLAN5GHz Ant5+BT Ant 6	WLAN +BT worst case
Front	0.274	0.268	0.342	0.610	0.610
Back	0.383	0.261	0.430	0.691	0.691

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worst-case>:

Test Position	AG0	AG1	Wlan+BT worst case	AG0+AG1+ WLAN +BT worst case
Front	1.347	0.515	0.610	2.47
Back	1.430	0.903	0.691	3.02

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Front					
Ant combination	AG0	AG1	Wlan+BT worst case	AG0+AG1+ WLAN +BT worst case	SPLSR
	SAR	SAR			
Ant0-Ant3	0.964	0.044	0.610	1.62	63
Ant0-Ant4	0.964	0.515	0.610	2.09	8
Ant0-Ant5	0.964	0.418	0.610	1.99	57
Ant0-Ant7	0.964	0.454	0.610	2.03	58
Ant1-Ant3	1.347	0.044	0.610	2.00	59
Ant1-Ant4	1.347	0.515	0.610	2.47	9
Ant1-Ant5	1.347	0.418	0.610	2.38	10
Ant1-Ant7	1.347	0.454	0.610	2.41	11
Ant9-Ant3	0.623	0.044	0.610	1.28	
Ant9-Ant4	0.623	0.515	0.610	1.75	60
Ant9-Ant5	0.623	0.418	0.610	1.65	61
Ant9-Ant7	0.623	0.454	0.610	1.69	62

Back					
Ant combination	AG0	AG1	Wlan+BT worst case	AG0+AG1+ WLAN +BT worst case	SPLSR
	SAR	SAR			
Ant0-Ant3	1.430	0.877	0.691	3.00	12
Ant0-Ant4	1.430	0.893	0.691	3.01	13
Ant0-Ant5	1.430	0.903	0.691	3.02	14
Ant0-Ant7	1.430	0.884	0.691	3.01	15
Ant1-Ant3	1.414	0.877	0.691	2.98	16
Ant1-Ant4	1.414	0.893	0.691	3.00	17
Ant1-Ant5	1.414	0.903	0.691	3.01	18
Ant1-Ant7	1.414	0.884	0.691	2.99	19
Ant9-Ant3	1.122	0.877	0.691	2.69	20
Ant9-Ant4	1.122	0.893	0.691	2.71	21
Ant9-Ant5	1.122	0.903	0.691	2.72	22
Ant9-Ant7	1.122	0.884	0.691	2.70	23

<Simultaneous Transmission analysis of WLAN/BT only without WWAN>:

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant5	BT Ant 6	WLAN5GHz Ant5+BT Ant 6	WLAN +BT worst case
Front	0.274	0.268	0.342	0.61	0.61
Back	0.383	0.416	0.430	0.85	0.85

<Sensor off>

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:
<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	Ant9	MAX
Front	0.147	0.356	0.098	0.356
Back	0.157	0.289	0.189	0.289

<AG1 maximum reported SAR>:

Test Position	Ant3	Ant4	Ant5	Ant7	MAX
Front	0.100	0.291	0.301	0.125	0.301
Back	0.141	0.337	0.535	0.439	0.535

<WLAN2.4GHz/5GHz/BT Worse-case SAR

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant5	BT Ant 6	WLAN5GHz Ant5+BT Ant 6	WLAN +BT worst case
Front	0.158	0.301	0.051	0.352	0.352
Back	0.127	0.353	0.040	0.393	0.393

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN/BT Worse-case>:

Test Position	AG0	AG1	Wlan+BT worst case	AG0+AG1+ WLAN +BT worst case
Front	0.356	0.301	0.352	1.01
Back	0.289	0.535	0.393	1.22

17.5 Product specific 10g SAR Exposure Conditions

Remark:

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

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT+NFC:

<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	Ant9	MAX
Front	2.688	3.324		3.324
Back	3.080	2.763	0.994	3.080
Left Side	1.988			1.988
Right Side			2.282	2.282
Top Side				0.000
Bottom Side	2.920	3.080		3.080

<AG1 maximum reported SAR>:

Test Position	Ant3	Ant4	Ant5	Ant7	MAX
Front		1.347	1.039	2.517	2.517
Back	1.386	1.488	1.155	1.015	1.488
Left Side		1.105			1.105
Right Side				1.368	1.368
Top Side		2.588	2.495	0.944	2.588
Bottom Side					0.000

<WLAN2.4GHz/5GHz/BT Worse-case SAR>

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant5	WLAN5GHz Ant5+BT Ant 6	WLAN +BT worst case
Front		0.457	0.457	0.457
Back	1.217	0.402	0.402	1.217
Left Side		0.643	0.643	0.643
Right Side		0.298	0.298	0.298
Top Side		1.158	1.158	1.158
Bottom Side			0.000	0.000

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN/BT Worse-case+NFC>:

Test Position	AG0	AG1	Wlan+BT worst case	NFC	AG0+AG1+ WLAN +BT worst case
Front	3.324	2.517	0.457	0.001	6.30
Back	3.080	1.488	1.217	0.026	5.81
Left Side	1.988	1.105	0.643	0.001	3.74
Right Side	2.282	1.368	0.298	0.001	3.95
Top Side	0.000	2.588	1.158	0.001	3.75
Bottom Side	3.080	0.000	0.000	0.001	3.08

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.



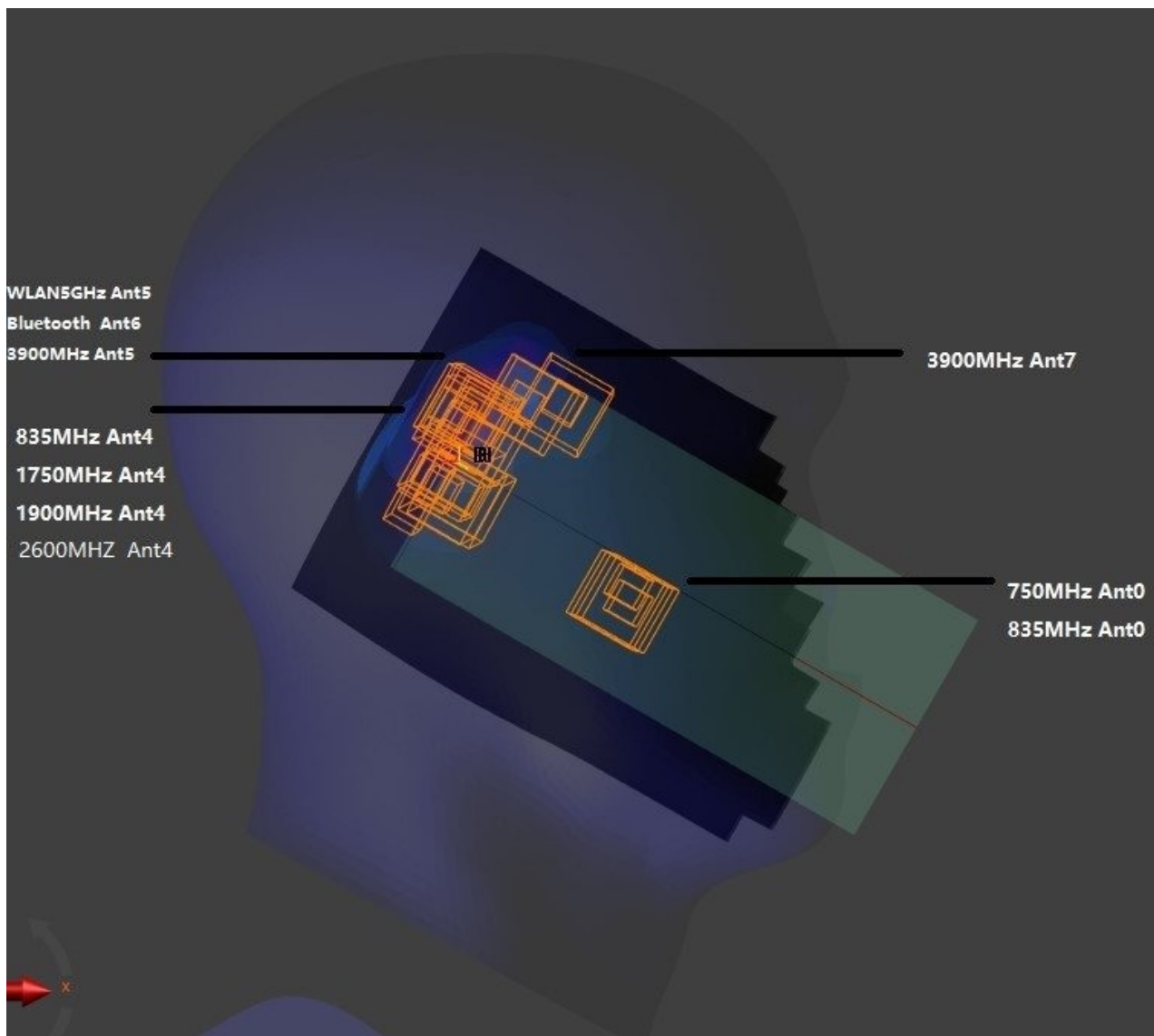
Front						
Ant combination	AG0	AG1	Wlan+BT worst case	NFC	AG0+AG1+ WLAN +BT worst case	SPLSR
	SAR	SAR				
Ant0-Ant3	2.688	0.000	0.457	0.001	3.15	
Ant0-Ant4	2.688	1.347	0.457	0.001	4.49	41
Ant0-Ant5	2.688	1.039	0.457	0.001	4.19	42
Ant0-Ant7	2.688	2.517	0.457	0.001	5.66	43
Ant1-Ant3	3.324	0.000	0.457	0.001	3.78	
Ant1-Ant4	3.324	1.347	0.457	0.001	5.13	44
Ant1-Ant5	3.324	1.039	0.457	0.001	4.82	45
Ant1-Ant7	3.324	2.517	0.457	0.001	6.30	46
Ant9-Ant3	0.000	0.000	0.457	0.001	0.46	
Ant9-Ant4	0.000	1.347	0.457	0.001	1.81	
Ant9-Ant5	0.000	1.039	0.457	0.001	1.50	
Ant9-Ant7	0.000	2.517	0.457	0.001	2.98	

Back						
Ant combination	AG0	AG1	Wlan+BT worst case	NFC	AG0+AG1+ WLAN +BT worst case	SPLSR
	SAR	SAR				
Ant0-Ant3	3.080	1.386	1.217	0.026	5.71	47
Ant0-Ant4	3.080	1.488	1.217	0.026	5.81	48
Ant0-Ant5	3.080	1.155	1.217	0.026	5.48	49
Ant0-Ant7	3.080	1.015	1.217	0.026	5.34	50
Ant1-Ant3	2.763	1.386	1.217	0.026	5.39	51
Ant1-Ant4	2.763	1.488	1.217	0.026	5.49	52
Ant1-Ant5	2.763	1.155	1.217	0.026	5.16	53
Ant1-Ant7	2.763	1.015	1.217	0.026	5.02	54
Ant9-Ant3	0.994	1.386	1.217	0.026	3.62	
Ant9-Ant4	0.994	1.488	1.217	0.026	3.73	
Ant9-Ant5	0.994	1.155	1.217	0.026	3.39	
Ant9-Ant7	0.994	1.015	1.217	0.026	3.25	

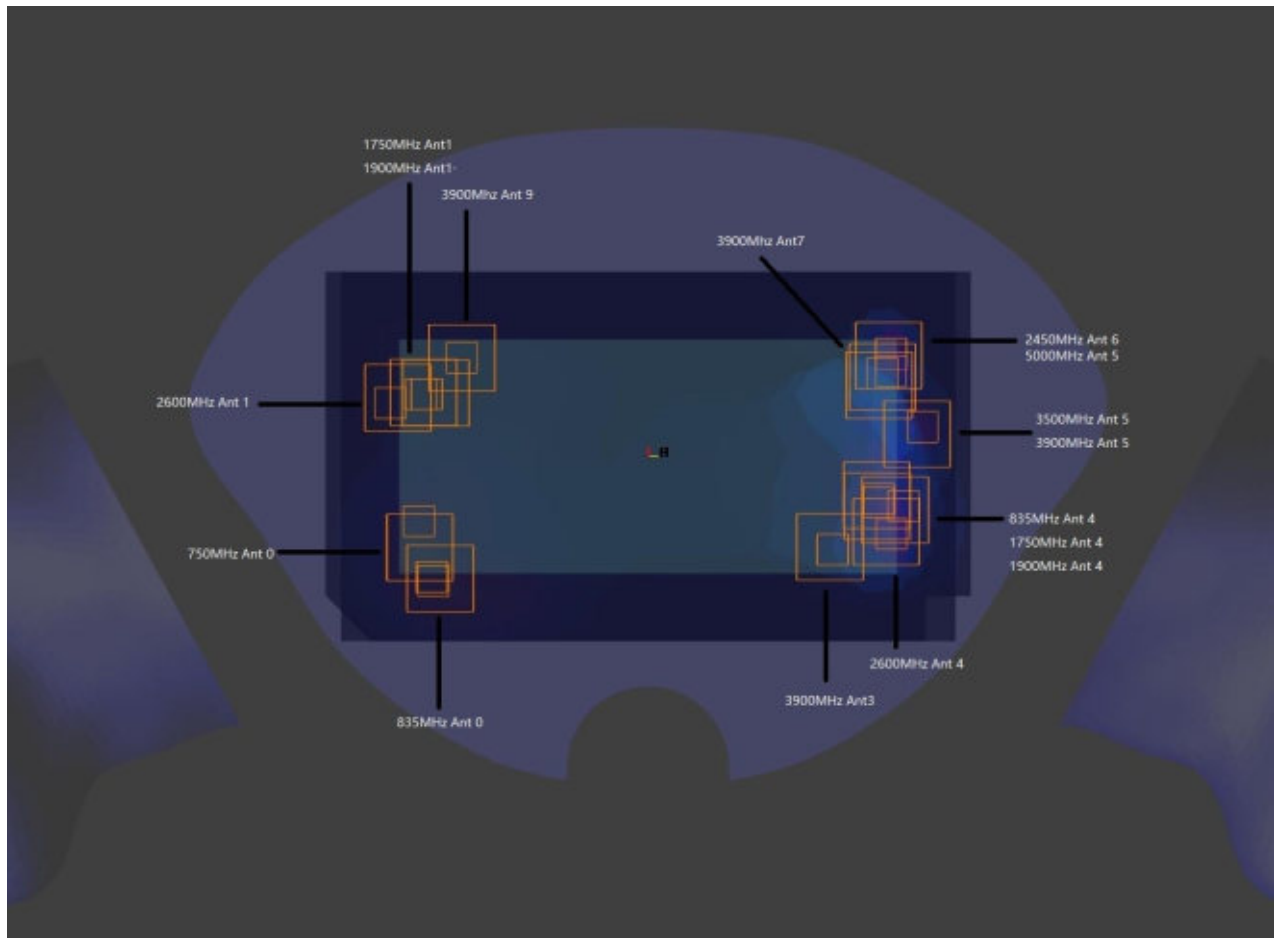
17.6 SPLSR Evaluation and Analysis

General Note:

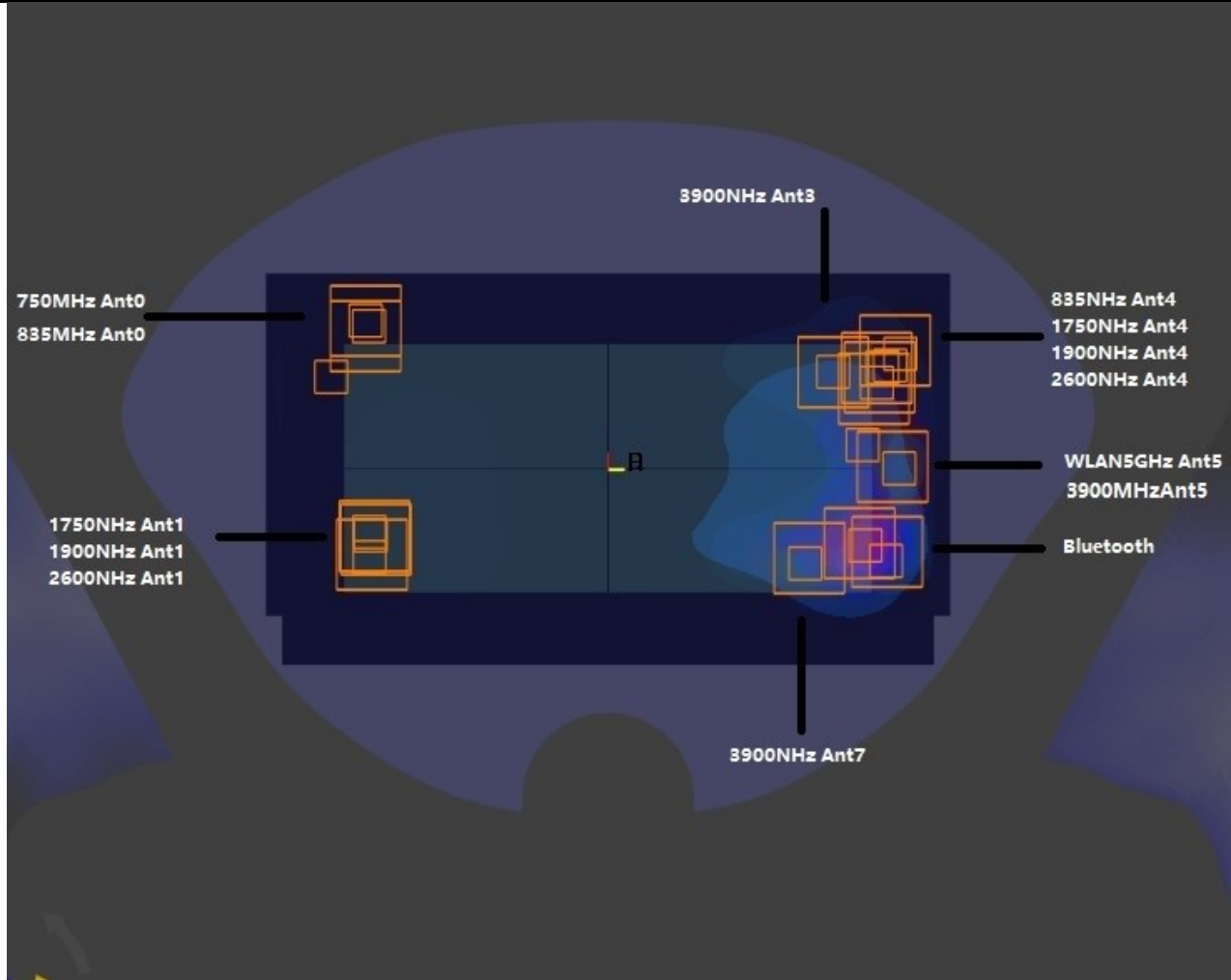
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR_1 + SAR_2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, WLAN /BT/ NFC was summed algebraically with the AG1 for the purposes of hybrid SPLSR combination and they are located at the top of the device
4. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.
5. The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.
6. The axis peak locations refer to Section 17.7.



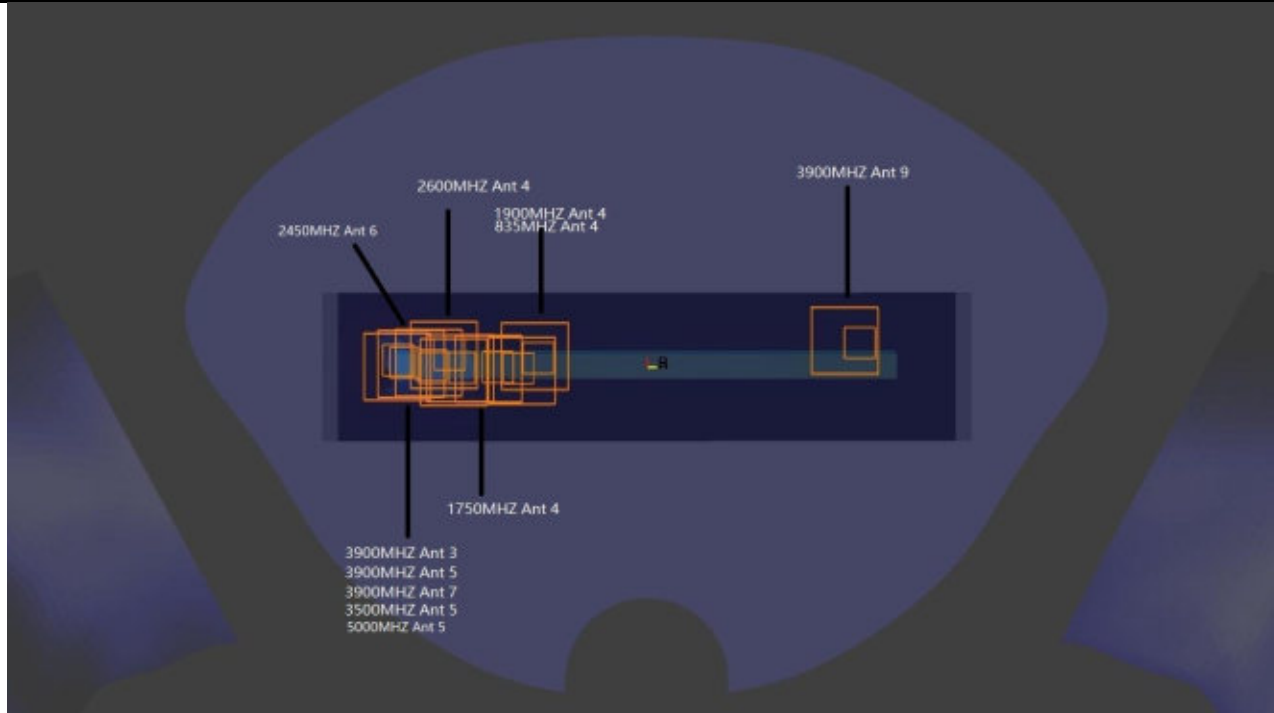
Head WWAN+WLAN Left Check 0mm



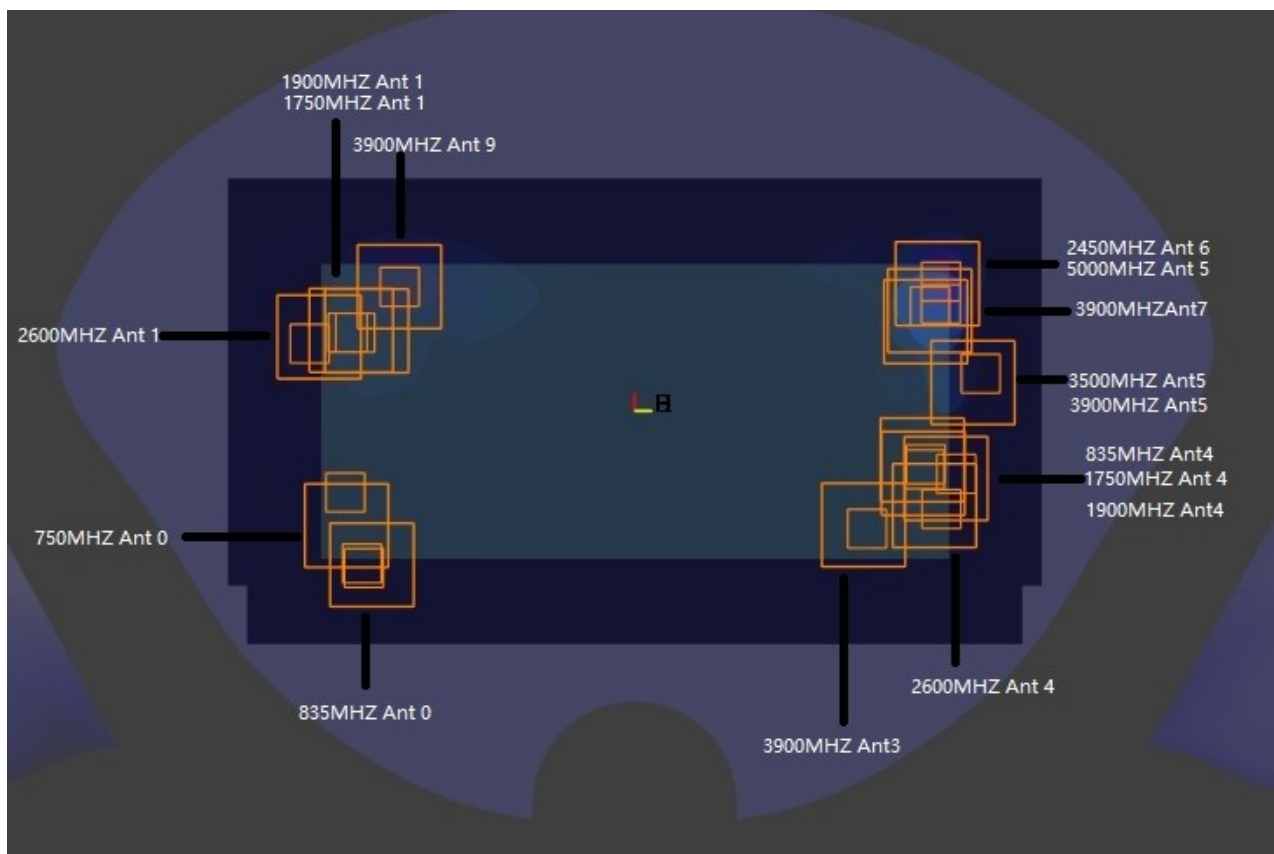
Hotspot WWAN+WLAN+BT Back 5mm



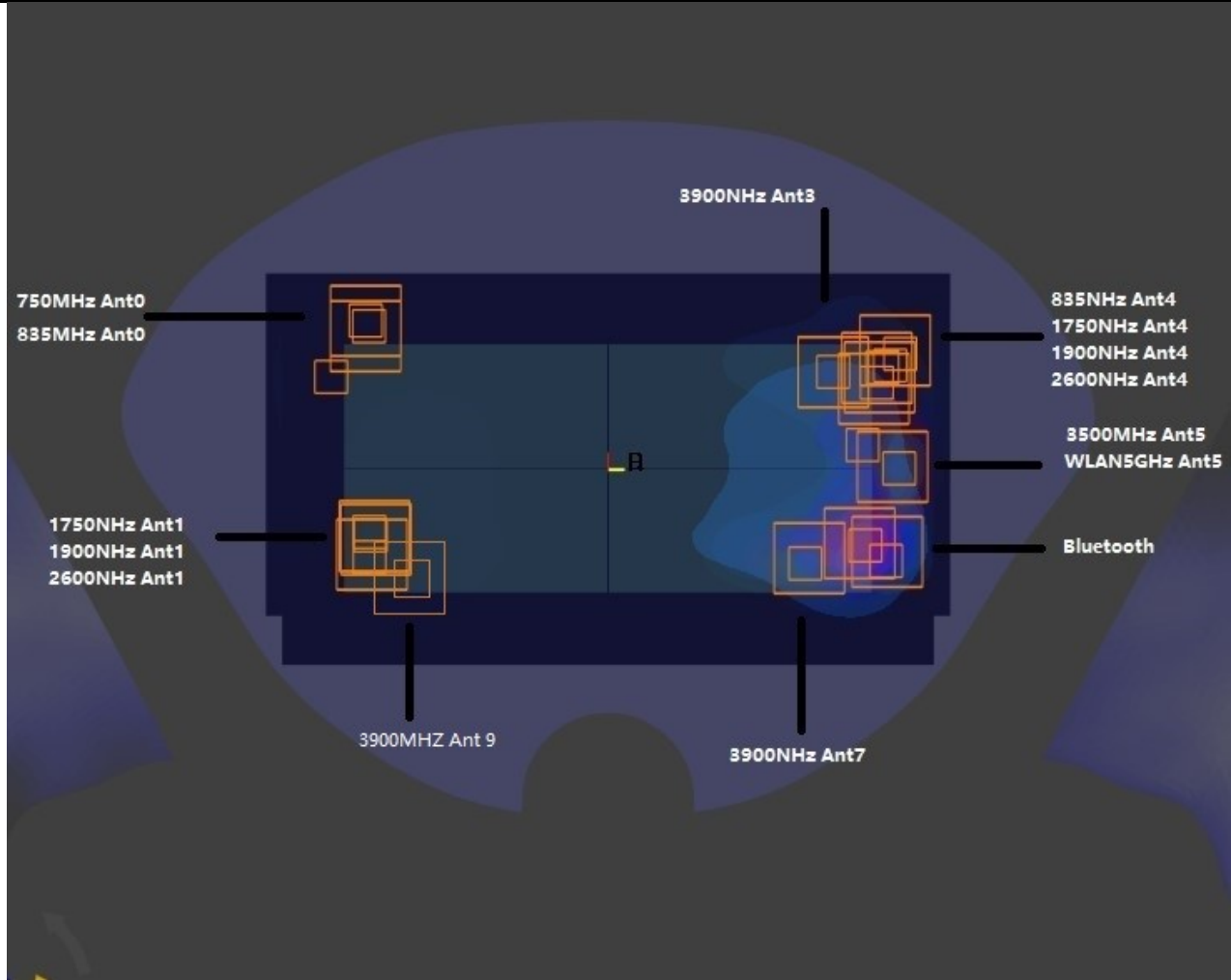
Hotspot WWAN+WLAN+BT Front 5mm



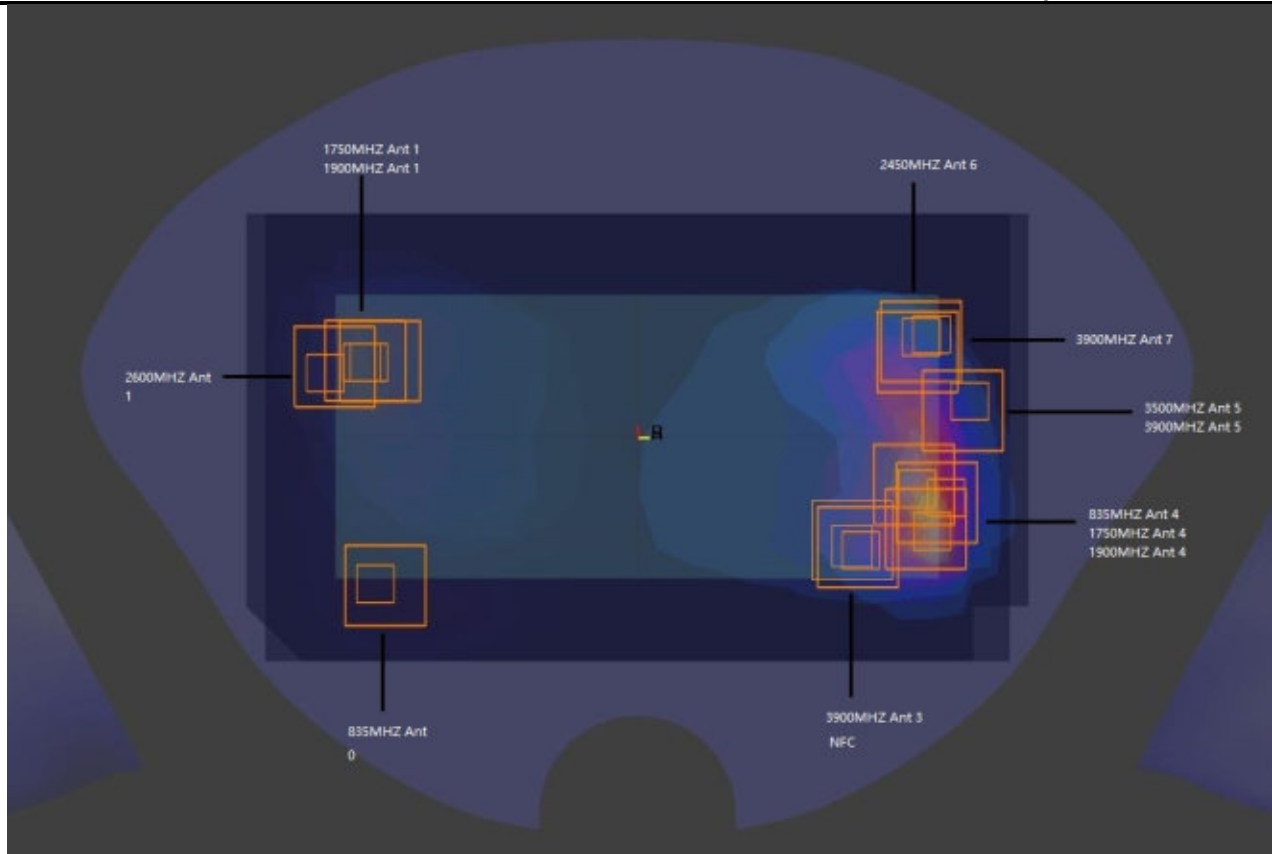
Hotspot WWAN+WLAN+BT Right Side 5mm



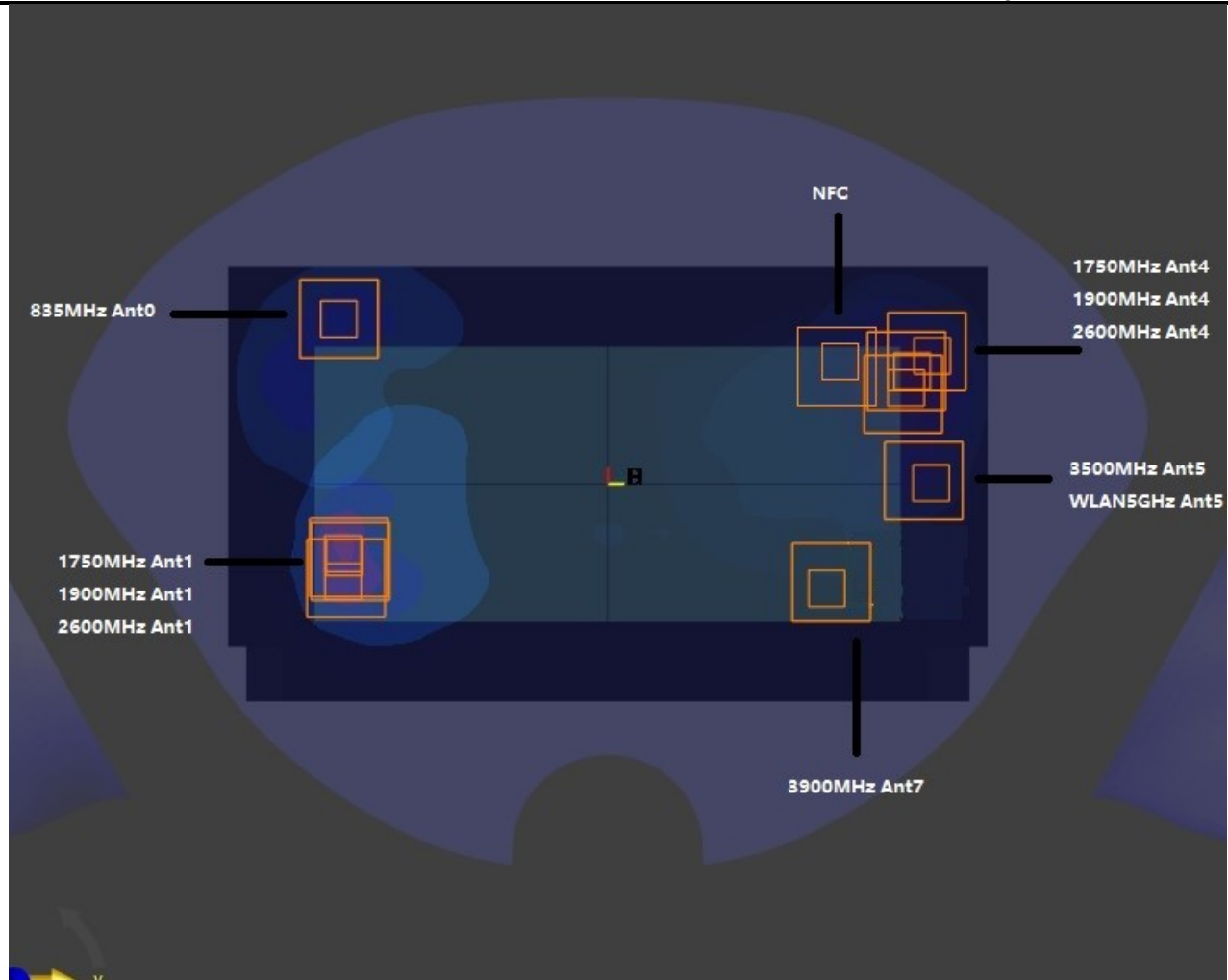
Body-Worn WWAN+WLAN+BT Back 5mm



Body-worn WWAN+WLAN+BT Front 5mm



Extremity WWAN+WLAN+BT+NFC Back 0mm



Extremity WWAN+WLAN+BT+NFC Front 0mm



<Head>

No.1 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Left Cheek	0.490	0.490	0mm	53.6	264.6	-172.4	66.5	1.75	0.03	Not required
Ant 4		0.628	1.262	0mm	2.9	307.4	-168.5				
WLAN5GHz		0.393		0mm							
BT		0.241		0mm							
Ant 0	Left Cheek	0.490	0.490	0mm	53.6	264.6	-172.4	81.5	1.75	0.03	Not required
Ant 4		0.628	1.262	0mm							
WLAN5GHz		0.393		0mm	25	340.9	-170.7				
BT		0.241		0mm							
Ant 0	Left Cheek	0.490	0.490	0mm	53.6	264.6	-172.4	72.5	1.75	0.03	Not required
Ant 4		0.628	1.262	0mm							
WLAN5GHz		0.393		0mm							
BT		0.241		0mm	26	331.6	-174.6				
No.2 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Left Cheek	0.490	0.490	0mm	53.6	264.6	-172.4	69.4	1.75	0.03	Not required
Ant 5		0.622	1.256	0mm	41.5	332.9	-170.1				
WLAN5GHz		0.393		0mm							
BT		0.241		0mm							
Ant 0	Left Cheek	0.490	0.490	0mm	53.6	264.6	-172.4	81.5	1.75	0.03	Not required
Ant 5		0.622	1.256	0mm							
WLAN5GHz		0.393		0mm	25	340.9	-170.7				
BT		0.241		0mm							
Ant 0	Left Cheek	0.490	0.490	0mm	53.6	264.6	-172.4	72.5	1.75	0.03	Not required
Ant 5		0.622	1.256	0mm							
WLAN5GHz		0.393		0mm							
BT		0.241		0mm	26	331.6	-174.6				
No.3 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Left Cheek	0.490	0.490	0mm	53.6	264.6	-172.4	73.8	1.73	0.03	Not required
Ant 7		0.608	1.242	0mm	38.3	336.8	-172.1				
WLAN5GHz		0.393		0mm							
BT		0.241		0mm							
Ant 0	Left Cheek	0.490	0.490	0mm	53.6	264.6	-172.4	81.5	1.73	0.03	Not required
Ant 7		0.608	1.242	0mm							
WLAN5GHz		0.393		0mm	25	340.9	-170.7				
BT		0.241		0mm							
Ant 0	Left Cheek	0.490	0.490	0mm	53.6	264.6	-172.4	72.5	1.73	0.03	Not required
Ant 7		0.608	1.242	0mm							
WLAN5GHz		0.393		0mm							
BT		0.241		0mm	26	331.6	-174.6				

<Hotspot>

No.24 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.258	0.912	5mm	-8.5	-73.5	-204	155.2	2.17	0.02	Not required
Ant 4		0.347		5mm	-53.5	75	-204				
WLAN 5G		0.261		5mm							
BT		0.304		5mm							
Ant 1	Front	1.258	0.912	5mm	1	-73	-207	156.0	2.17	0.02	Not required
Ant 4		0.347		5mm							
WLAN 5G		0.261		5mm	3	83	-204				
BT		0.304		5mm							
Ant 1	Front	1.258	0.912	5mm	1	-73	-207	152.0	2.17	0.02	Not required
Ant 4		0.347		5mm							
WLAN 5G		0.261		5mm							
BT		0.304		5mm	-1	79	-204				
No.25 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.258	0.781	5mm	-8.5	-73.5	-204	161.8	2.04	0.02	Not required
Ant 5		0.216		5mm	-25	87.5	-204				
WLAN 5G		0.261		5mm							
BT		0.304		5mm							
Ant 1	Front	1.258	0.781	5mm	1	-73	-207	156.0	2.04	0.02	Not required
Ant 5		0.216		5mm							
WLAN 5G		0.261		5mm	3	83	-204				
BT		0.304		5mm							
Ant 1	Front	1.258	0.781	5mm	1	-73	-207	152.0	2.04	0.02	Not required
Ant 5		0.216		5mm							
WLAN 5G		0.261		5mm							
BT		0.304		5mm	-1	79	-204				
No.26 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.258	0.886	5mm	1	-73	-207	133.1	2.14	0.02	Not required
Ant 7		0.321		5mm	4	60	-204				
WLAN 5G		0.261		5mm							
BT		0.304		5mm							
Ant 1	Front	1.258	0.886	5mm	1	-73	-207	156.0	2.14	0.02	Not required
Ant 7		0.321		5mm							
WLAN 5G		0.261		5mm	3	83	-204				
BT		0.304		5mm							
Ant 1	Front	1.258	0.886	5mm	1	-73	-207	152.0	2.14	0.02	Not required
Ant 7		0.321		5mm							
WLAN 5G		0.261		5mm							
BT		0.304		5mm	-1	79	-204				
No.64 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Front	0.964	0.912	5mm	-67.3	-70.5	-204	146.0	1.88	0.02	Not required
Ant 4		0.347		5mm	-55	75	-204				
WLAN 5G		0.261		5mm							
BT		0.304		5mm							
Ant 0	Front	0.964	0.912	5mm	-67.3	-70.5	-204	168.8	1.88	0.02	Not required
Ant 4		0.347		5mm							
WLAN 5G		0.261		5mm	3	83	-204				
BT		0.304		5mm							
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	163.5	1.88	0.02	Not required
Ant 4		0.347		5mm							



FCC SAR Test Report

Report No. : FA530724

WLAN 5G		0.261		5mm							
BT		0.304		5mm	-1	79	-204				
No.65 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	163.6	1.75	0.01	Not required
Ant 5		0.216	0.781	5mm	-25	87.5	-204				
WLAN 5G		0.261		5mm							
BT		0.304		5mm							
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	168.8	1.75	0.01	Not required
Ant 5		0.216	0.781	5mm							
WLAN 5G		0.261		5mm	3	83	-204				
BT		0.304		5mm							
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	163.5	1.75	0.01	Not required
Ant 5		0.216	0.781	5mm							
WLAN 5G		0.261		5mm							
BT		0.304		5mm	-1	79	-204				
No.66 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	148.7	1.85	0.02	Not required
Ant 7		0.321	0.886	5mm	4	60	-204				
WLAN 5G		0.261		5mm							
BT		0.304		5mm							
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	168.8	1.85	0.01	Not required
Ant 7		0.321	0.886	5mm							
WLAN 5G		0.261		5mm	3	83	-204				
BT		0.304		5mm							
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	163.5	1.85	0.02	Not required
Ant 7		0.321	0.886	5mm							
WLAN 5G		0.261		5mm							
BT		0.304		5mm	-1	79	-204				
No.67 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.258	1.258	5mm	-8.5	-73.5	-204	150.8	1.85	0.02	Not required
Ant 3		0.031	0.596	5mm	-55	70	-204				
WLAN 5G		0.261		5mm							
BT		0.304		5mm							
Ant 1	Front	1.258	1.258	5mm	1	-73	-207	156.0	1.85	0.02	Not required
Ant 3		0.031	0.596	5mm							
WLAN 5G		0.261		5mm	3	83	-204				
BT		0.304		5mm							
Ant 1	Front	1.258	1.258	5mm	1	-73	-207	152.0	1.85	0.02	Not required
Ant 3		0.031	0.596	5mm							
WLAN 5G		0.261		5mm							
BT		0.304		5mm	-1	79	-204				

No.27 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.430	1.430	5mm	15	-68.5	-207	127.8	3.02	0.04	Not required
Ant 3		0.626	1.586	5mm	6	59	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 0	Back	1.430	1.430	5mm	11.6	-69.3	-207	163.7	3.02	0.03	Not required
Ant 3		0.626	1.586	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 0	Back	1.430	1.430	5mm	11.6	-69.3	-207	161.9	3.02	0.03	Not required



FCC SAR Test Report

Report No. : FA530724

Ant 3		0.626		5mm							
WLAN 5G		0.530	1.586	5mm							
BT		0.430		5mm	-51	80	-207				
No.28 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.430	1.430	5mm	15	-68.5	-207	146.7	3.02	0.04	Not required
Ant 4		0.628	1.588	5mm	0.5	77.5	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 0	Back	1.430	1.430	5mm	11.6	-69.3	-207	163.7	3.02	0.03	Not required
Ant 4		0.628	1.588	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 0	Back	1.430	1.430	5mm	11.6	-69.3	-207	161.9	3.02	0.03	Not required
Ant 4		0.628	1.588	5mm							
WLAN 5G		0.530		5mm							
BT		0.430		5mm	-51	80	-207				
No.29 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.430	1.430	5mm	11.6	-69.3	-207	162.2	2.86	0.03	Not required
Ant 5		0.465	1.425	5mm	-31.6	87	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 0	Back	1.430	1.430	5mm	11.6	-69.3	-207	163.7	2.86	0.03	Not required
Ant 4		0.465	1.425	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 0	Back	1.430	1.430	5mm	11.6	-69.3	-207	161.9	2.86	0.03	Not required
Ant 4		0.465	1.425	5mm							
WLAN 5G		0.530		5mm							
BT		0.430		5mm	-51	80	-207				
No.30 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.430	1.430	5mm	11.6	-69.3	-207	159.5	3.02	0.03	Not required
Ant 7		0.626	1.586	5mm	-52	77	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 0	Back	1.430	1.430	5mm	11.6	-69.3	-207	163.7	3.02	0.03	Not required
Ant 7		0.626	1.586	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 0	Back	1.430	1.430	5mm	11.6	-69.3	-207	161.9	3.02	0.03	Not required
Ant 7		0.626	1.586	5mm							
WLAN 5G		0.530		5mm							
BT		0.430		5mm	-51	80	-207				
No.31 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	140.1	2.21	0.02	Not required
Ant 3		0.626	1.586	5mm	6	59	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	151.3	2.21	0.02	Not required
Ant 3		0.626	1.586	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	151.8	2.21	0.02	Not required



FCC SAR Test Report

Report No. : FA530724

Ant 3		0.626		5mm							
WLAN 5G		0.530	1.586	5mm							
BT		0.430		5mm	-51	80	-207				
No.32 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	155.1	2.22	0.02	Not required
Ant 4		0.628	1.588	5mm	-6.4	78.6	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	151.3	2.22	0.02	Not required
Ant 4		0.628	1.588	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	151.8	2.22	0.02	Not required
Ant 4		0.628	1.588	5mm							
WLAN 5G		0.530		5mm							
BT		0.430		5mm	-51	80	-207				
No.33 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	159.2	2.05	0.02	Not required
Ant 5		0.465	1.425	5mm	-31.6	87	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	151.3	2.05	0.02	Not required
Ant 5		0.465	1.425	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	151.8	2.05	0.02	Not required
Ant 5		0.465	1.425	5mm							
WLAN 5G		0.530		5mm							
BT		0.430		5mm	-51	80	-207				
No.34 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	148.9	2.21	0.02	Not required
Ant 7		0.626	1.586	5mm	-52	77	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	151.3	2.21	0.02	Not required
Ant 5		0.626	1.586	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 1	Back	0.628	0.628	5mm	-44.5	-71.7	-207	151.8	2.21	0.02	Not required
Ant 5		0.626	1.586	5mm							
WLAN 5G		0.530		5mm							
BT		0.430		5mm	-51	80	-207				
No.35 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	136.4	2.47	0.03	Not required
Ant 3		0.626	1.586	5mm	6	59	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	140.5	2.47	0.03	Not required
Ant 3		0.626	1.586	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	141.7	2.47	0.03	Not required



FCC SAR Test Report

Report No. : FA530724

Ant 3		0.626		5mm							
WLAN 5G		0.530	1.586	5mm							
BT		0.430		5mm	-51	80	-207				
No.36 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	149.3	2.48	0.03	Not required
Ant 4		0.628	1.588	5mm	-6.4	78.6	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	140.5	2.48	0.03	Not required
Ant 4		0.628	1.588	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	141.7	2.48	0.03	Not required
Ant 4		0.628	1.588	5mm							
WLAN 5G		0.530		5mm							
BT		0.430		5mm	-51	80	-207				
No.37 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	150.7	2.31	0.02	Not required
Ant 5		0.465	1.425	5mm	-32.5	87	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	140.5	2.31	0.03	Not required
Ant 5		0.465	1.425	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	141.7	2.31	0.02	Not required
Ant 5		0.465	1.425	5mm							
WLAN 5G		0.530		5mm							
BT		0.430		5mm	-51	80	-207				
No.38 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	138.6	2.47	0.03	Not required
Ant 7		0.626	1.586	5mm	-52	77	-207				
WLAN 5G		0.530		5mm							
BT		0.430		5mm							
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	140.5	2.47	0.03	Not required
Ant 7		0.626	1.586	5mm							
WLAN 5G		0.530		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 9	Back	0.887	0.887	5mm	-58	-61.5	-207	141.7	2.47	0.03	Not required
Ant 7		0.626	1.586	5mm							
WLAN 5G		0.530		5mm							
BT		0.430		5mm	-51	80	-207				

No.39 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	102.4	2.03	0.03	Not required
Ant 4		0.092	0.742	5mm	-27.9	-35	-204				
WLAN 5G		0.364		5mm							
BT		0.286		5mm							
Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	147.4	2.03	0.02	Not required
Ant 4		0.092	0.742	5mm							
WLAN 5G		0.364		5mm	-26.6	-80	-204				
BT		0.286		5mm							



FCC SAR Test Report

Report No. : FA530724

Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	127.5	2.03	0.02	Not required
Ant 4		0.092	0.742	5mm							
WLAN 5G		0.364		5mm							
BT		0.286		5mm	-25	-60	-204				
No.40 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	136.5	2.44	0.03	Not required
Ant 7		0.499	1.149	5mm	-25	-69	-204				
WLAN 5G		0.364		5mm							
BT		0.286		5mm							
Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	147.4	2.44	0.03	Not required
Ant 7		0.499	1.149	5mm							
WLAN 5G		0.364		5mm	-26.6	-80	-204				
BT		0.286		5mm							
Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	127.5	2.44	0.03	Not required
Ant 7		0.499	1.149	5mm							
WLAN 5G		0.364		5mm							
BT		0.286		5mm	-25	-60	-204				
No.68 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	138.2	1.96	0.02	Not required
Ant 3		0.020	0.670	5mm	-30.6	-71	-204				
WLAN 5G		0.364		5mm							
BT		0.286		5mm							
Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	147.4	1.96	0.02	Not required
Ant 3		0.020	0.670	5mm							
WLAN 5G		0.364		5mm	-26.6	-80	-204				
BT		0.286		5mm							
Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	127.5	1.96	0.02	Not required
Ant 3		0.020	0.670	5mm							
WLAN 5G		0.364		5mm							
BT		0.286		5mm	-25	-60	-204				
No.69 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	144.9	2.01	0.02	Not required
Ant 5		0.063	0.713	5mm	-25	-77.5	-204				
WLAN 5G		0.364		5mm							
BT		0.286		5mm							
Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	147.4	2.01	0.02	Not required
Ant 5		0.063	0.713	5mm							
WLAN 5G		0.364		5mm	-26.6	-80	-204				
BT		0.286		5mm							
Ant 9	Right Side	1.292	1.292	5mm	-32.7	67.2	-207	127.5	2.01	0.02	Not required
Ant 5		0.063	0.713	5mm							
WLAN 5G		0.364		5mm							
BT		0.286		5mm	-25	-60	-204				



<Body-worn>

No.8 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	146.0	2.09	0.02	Not required
Ant 4		0.515	1.125	5mm	-55	75	-204				
WLAN 5G		0.268		5mm							
BT		0.342		5mm							
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	168.8	2.09	0.02	Not required
Ant 4		0.515	1.125	5mm							
WLAN 5G		0.268		5mm	3	83	-204				
BT		0.342		5mm							
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	163.5	2.09	0.02	Not required
Ant 4		0.515	1.125	5mm							
WLAN 5G		0.268		5mm							
BT		0.342		5mm	-1	79	-204				
No.9 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.347	1.347	5mm	-8.5	-73.5	-204	155.2	2.47	0.03	Not required
Ant 4		0.515	1.125	5mm	-53.5	75	-204				
WLAN 5G		0.268		5mm							
BT		0.342		5mm							
Ant 1	Front	1.347	1.347	5mm	1	-73	-207	156.0	2.47	0.02	Not required
Ant 4		0.515	1.125	5mm							
WLAN 5G		0.268		5mm	3	83	-204				
BT		0.342		5mm							
Ant 1	Front	1.347	1.347	5mm	1	-73	-207	152.0	2.47	0.03	Not required
Ant 4		0.515	1.125	5mm							
WLAN 5G		0.268		5mm							
BT		0.342		5mm	-1	79	-204				
No.10 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.347	1.347	5mm	-8.5	-73.5	-204	161.8	2.38	0.02	Not required
Ant 5		0.418	1.028	5mm	-25	87.5	-204				
WLAN 5G		0.268		5mm							
BT		0.342		5mm							
Ant 1	Front	1.347	1.347	5mm	1	-73	-207	156.0	2.38	0.02	Not required
Ant 5		0.418	1.028	5mm							
WLAN 5G		0.268		5mm	3	83	-204				
BT		0.342		5mm							
Ant 1	Front	1.347	1.347	5mm	1	-73	-207	152.0	2.38	0.02	Not required
Ant 5		0.418	1.028	5mm							
WLAN 5G		0.268		5mm							
BT		0.342		5mm	-1	79	-204				
No.11 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.347	1.347	5mm	1	-73	-207	133.1	2.41	0.03	Not required
Ant 7		0.454	1.064	5mm	4	60	-204				
WLAN 5G		0.268		5mm							
BT		0.342		5mm							
Ant 1	Front	1.347	1.347	5mm	1	-73	-207	156.0	2.41	0.02	Not required
Ant 7		0.454	1.064	5mm							
WLAN 5G		0.268		5mm	3	83	-204				
BT		0.342		5mm							



FCC SAR Test Report

Report No. : FA530724

Ant 1	Front	1.347	1.347	5mm	1	-73	-207	152.0	2.41	0.02	Not required
Ant 7		0.454	1.064	5mm							
WLAN 5G		0.268		5mm							
BT		0.342		5mm	-1	79	-204				
No.57 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	163.6	1.99	0.02	Not required
Ant 5		0.418	1.028	5mm	-25	87.5	-204				
WLAN 5G		0.268		5mm							
BT		0.342		5mm							
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	168.8	1.99	0.02	Not required
Ant 5		0.418	1.028	5mm							
WLAN 5G		0.268		5mm	3	83	-204				
BT		0.342		5mm							
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	163.5	1.99	0.02	Not required
Ant 5		0.418	1.028	5mm							
WLAN 5G		0.268		5mm							
BT		0.342		5mm	-1	79	-204				
No.58 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	148.7	2.03	0.02	Not required
Ant 7		0.454	1.064	5mm	4	60	-204				
WLAN 5G		0.268		5mm							
BT		0.342		5mm							
Ant 0	Front	0.964	0.964	5mm	1	-73	-207	156.0	2.03	0.02	Not required
Ant 7		0.454	1.064	5mm							
WLAN 5G		0.268		5mm	3	83	-204				
BT		0.342		5mm							
Ant 0	Front	0.964	0.964	5mm	1	-73	-207	152.0	2.03	0.02	Not required
Ant 7		0.454	1.064	5mm							
WLAN 5G		0.268		5mm							
BT		0.342		5mm	-1	79	-204				
No.59 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.347	1.347	5mm	-8.5	-73.5	-204	150.8	2.00	0.02	Not required
Ant 3		0.044	0.654	5mm	-55	70	-204				
WLAN 5G		0.268		5mm							
BT		0.342		5mm							
Ant 1	Front	1.347	1.347	5mm	1	-73	-207	156.0	2.00	0.02	Not required
Ant 3		0.044	0.654	5mm							
WLAN 5G		0.268		5mm	3	83	-204				
BT		0.342		5mm							
Ant 1	Front	1.347	1.347	5mm	1	-73	-207	152.0	2.00	0.02	Not required
Ant 3		0.044	0.654	5mm							
WLAN 5G		0.268		5mm							
BT		0.342		5mm	-1	79	-204				
No.63 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	141.0	1.62	0.01	Not required
Ant 3		0.044	0.654	5mm	-55	70	-204				
WLAN 5G		0.268		5mm							
BT		0.342		5mm							
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	168.8	1.62	0.01	Not required
Ant 3		0.044	0.654	5mm							



FCC SAR Test Report

Report No. : FA530724

WLAN 5G		0.268		5mm	3	83	-204				
BT		0.342		5mm							
Ant 0	Front	0.964	0.964	5mm	-67.3	-70.5	-204	163.5	1.62	0.01	Not required
Ant 3		0.044	0.654	5mm							
WLAN 5G		0.268		5mm							
BT		0.342		5mm	-1	79	-204				
No.60 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Front	0.623	0.623	5mm	13	-58	-204	148.7	1.75	0.02	Not required
Ant 4		0.515	1.125	5mm	-53.5	75	-204				
WLAN 5G		0.268		5mm							
BT		0.342		5mm							
Ant 9	Front	0.623	0.623	5mm	13	-58	-204	141.4	1.75	0.02	Not required
Ant 4		0.515	1.125	5mm							
WLAN 5G		0.268		5mm	3	83	-204				
BT		0.342		5mm							
Ant 9	Front	0.623	0.623	5mm	13	-58	-204	137.7	1.75	0.02	Not required
Ant 4		0.515	1.125	5mm							
WLAN 5G		0.268		5mm							
BT		0.342		5mm	-1	79	-204				
No.61 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Front	0.623	0.623	5mm	13	-58	-204	150.4	1.65	0.01	Not required
Ant 5		0.418	1.028	5mm	-25	87.5	-204				
WLAN 5G		0.268		5mm							
BT		0.342		5mm							
Ant 9	Front	0.623	0.623	5mm	13	-58	-204	141.4	1.65	0.02	Not required
Ant 5		0.418	1.028	5mm							
WLAN 5G		0.268		5mm	3	83	-204				
BT		0.342		5mm							
Ant 9	Front	0.623	0.623	5mm	13	-58	-204	137.7	1.65	0.02	Not required
Ant 5		0.418	1.028	5mm							
WLAN 5G		0.268		5mm							
BT		0.342		5mm	-1	79	-204				
No.62 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Front	0.623	0.623	5mm	13	-58	-204	118.3	1.69	0.02	Not required
Ant 7		0.454	1.064	5mm	4	60	-204				
WLAN 5G		0.268		5mm							
BT		0.342		5mm							
Ant 9	Front	0.623	0.623	5mm	13	-58	-204	141.4	1.69	0.02	Not required
Ant 7		0.454	1.064	5mm							
WLAN 5G		0.268		5mm	3	83	-204				
BT		0.342		5mm							
Ant 9	Front	0.623	0.623	5mm	13	-58	-204	137.7	1.69	0.02	Not required
Ant 7		0.454	1.064	5mm							
WLAN 5G		0.268		5mm							
BT		0.342		5mm	-1	79	-204				



FCC SAR Test Report

Report No. : FA530724

No.12 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.430	1.568	5mm	15	-68.5	-207	127.8	3.00	0.040	Not required
Ant 3		0.877		5mm	6	59	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 0	Back	1.430	1.568	5mm	11.6	-69.3	-207	163.7	3.00	0.03	Not required
Ant 3		0.877		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 0	Back	1.430	1.568	5mm	11.6	-69.3	-207	161.9	3.00	0.03	Not required
Ant 3		0.877		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				
No.13 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.430	1.584	5mm	15	-68.5	-207	146.7	3.01	0.04	Not required
Ant 4		0.893		5mm	0.5	77.5	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 0	Back	1.430	1.584	5mm	11.6	-69.3	-207	163.7	3.01	0.03	Not required
Ant 4		0.893		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 0	Back	1.430	1.584	5mm	11.6	-69.3	-207	161.9	3.01	0.03	Not required
Ant 4		0.893		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				
No.14 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.430	1.594	5mm	11.6	-69.3	-207	162.2	3.02	0.03	Not required
Ant 5		0.903		5mm	-31.6	87	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 0	Back	1.430	1.594	5mm	11.6	-69.3	-207	163.7	3.02	0.03	Not required
Ant 4		0.903		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 0	Back	1.430	1.594	5mm	11.6	-69.3	-207	161.9	3.02	0.03	Not required
Ant 4		0.903		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				
No.15 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.430	1.575	5mm	11.6	-69.3	-207	159.5	3.01	0.03	Not required
Ant 7		0.884		5mm	-52	77	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 0	Back	1.430	1.575	5mm	11.6	-69.3	-207	163.7	3.01	0.03	Not required
Ant 7		0.884		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 0	Back	1.430	1.575	5mm	11.6	-69.3	-207	161.9	3.01	0.03	Not required
Ant 7		0.884		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				



FCC SAR Test Report

Report No. : FA530724

No.16 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	140.1	2.98	0.04	Not required
Ant 3		0.877		5mm	6	59	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	151.3	2.98	0.03	Not required
Ant 3		0.877		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	151.8	2.98	0.03	Not required
Ant 3		0.877		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				
No.17 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	155.1	3.00	0.03	Not required
Ant 4		0.893		5mm	-6.4	78.6	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	151.3	3.00	0.03	Not required
Ant 4		0.893		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	151.8	3.00	0.03	Not required
Ant 4		0.893		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				
No.18 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	159.2	3.01	0.03	Not required
Ant 5		0.903		5mm	-31.6	87	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	151.3	3.01	0.03	Not required
Ant 5		0.903		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	151.8	3.01	0.03	Not required
Ant 5		0.903		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				
No.19 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	148.9	2.99	0.03	Not required
Ant 7		0.884		5mm	-52	77	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	151.3	2.99	0.03	Not required
Ant 5		0.884		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 1	Back	1.414	1.414	5mm	-44.5	-71.7	-207	151.8	2.99	0.03	Not required
Ant 5		0.884		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				



FCC SAR Test Report

Report No. : FA530724

No.20 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	1.122	1.568	5mm	-58	-61.5	-207	136.4	2.69	0.03	Not required
Ant 3		0.877		5mm	6	59	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 9	Back	1.122	1.568	5mm	-58	-61.5	-207	140.5	2.69	0.03	Not required
Ant 3		0.877		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 9	Back	1.122	1.568	5mm	-58	-61.5	-207	141.7	2.69	0.03	Not required
Ant 3		0.877		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				
No.21 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	1.122	1.584	5mm	-58	-61.5	-207	149.3	2.71	0.03	Not required
Ant 4		0.893		5mm	-6.4	78.6	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 9	Back	1.122	1.584	5mm	-58	-61.5	-207	140.5	2.71	0.03	Not required
Ant 4		0.893		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 9	Back	1.122	1.584	5mm	-58	-61.5	-207	141.7	2.71	0.03	Not required
Ant 4		0.893		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				
No.22 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	1.122	1.594	5mm	-58	-61.5	-207	150.7	2.72	0.03	Not required
Ant 5		0.903		5mm	-32.5	87	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 9	Back	1.122	1.594	5mm	-58	-61.5	-207	140.5	2.72	0.03	Not required
Ant 5		0.903		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 9	Back	1.122	1.594	5mm	-58	-61.5	-207	141.7	2.72	0.03	Not required
Ant 5		0.903		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				
No.23 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	1.122	1.575	5mm	-58	-61.5	-207	138.6	2.70	0.03	Not required
Ant 7		0.884		5mm	-52	77	-207				
WLAN 5G		0.261		5mm							
BT		0.430		5mm							
Ant 9	Back	1.122	1.575	5mm	-58	-61.5	-207	140.5	2.70	0.03	Not required
Ant 7		0.884		5mm							
WLAN 5G		0.261		5mm	-57.6	79	-207				
BT		0.430		5mm							
Ant 9	Back	1.122	1.575	5mm	-58	-61.5	-207	141.7	2.70	0.03	Not required
Ant 7		0.884		5mm							
WLAN 5G		0.261		5mm							
BT		0.430		5mm	-51	80	-207				



<Extremity>

No.41 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	2.688	2.688	0mm	-69.3	-72.5	-204	150.2	4.49	0.06	Not required
Ant4		1.347	1.805	0mm	-47	76	-204				
WLAN5GHz		0.457		0mm							
NFC		0.001		0mm							
Ant0	Front	2.688	2.688	0mm	-69.3	-72.5	-204	173.9	4.49	0.05	Not required
Ant4		1.347	1.805	0mm							
WLAN5GHz		0.457		0mm	3.1	85.6	-204				
NFC		0.001		0mm							
Ant0	Front	2.688	2.688	0mm	-69.3	-72.5	-204	142.4	4.49	0.07	Not required
Ant4		1.347	1.805	0mm							
WLAN5GHz		0.457		0mm							
NFC		0.001		0mm							
Ant0	Front	2.688	2.688	0mm	-69.3	-72.5	-204	167.3	4.19	0.05	Not required
Ant5		1.039	1.497	0mm	-24.1	88.6	-204				
WLAN5GHz		0.457		0mm							
NFC		0.001		0mm							
Ant0	Front	2.688	2.688	0mm	-69.3	-72.5	-204	173.9	4.19	0.05	Not required
Ant5		1.039	1.497	0mm							
WLAN5GHz		0.457		0mm	3.1	85.6	-204				
NFC		0.001		0mm							
Ant0	Front	2.688	2.688	0mm	-69.3	-72.5	-204	142.4	4.19	0.06	Not required
Ant5		1.039	1.497	0mm							
WLAN5GHz		0.457		0mm							
NFC		0.001		0mm	-24.3	59.9	-177				
Ant0	Front	2.688	2.688	0mm	-69.3	-72.5	-204	154.6	5.66	0.09	Not required
Ant7		2.517	2.975	0mm	5.4	62.8	-204				
WLAN5GHz		0.457		0mm							
NFC		0.001		0mm							
Ant0	Front	2.688	2.688	0mm	-69.3	-72.5	-204	173.9	5.66	0.08	Not required
Ant7		2.517	2.975	0mm							
WLAN5GHz		0.457		0mm	3.1	85.6	-204				
NFC		0.001		0mm							
Ant0	Front	2.688	2.688	0mm	-69.3	-72.5	-204	142.4	5.66	0.09	Not required
Ant7		2.517	2.975	0mm							
WLAN5GHz		0.457		0mm							
NFC		0.001		0mm	-24.3	59.9	-177				
Ant1	Front	3.324	3.324	0mm	-10	-87	-204	167.1	5.13	0.07	Not required
Ant4		1.347	1.805	0mm	-47	76	-204				
WLAN5GHz		0.457		0mm							
NFC		0.001		0mm							
Ant1	Front	3.324	3.324	0mm	-2.9	-85.2	-207	170.9	5.13	0.07	Not required
Ant4		1.347	1.805	0mm							
WLAN5GHz		0.457		0mm	3.1	85.6	-204				
NFC		0.001		0mm							
Ant1	Front	3.324	3.324	0mm	-2.9	-85.2	-207	155.5	5.13	0.07	Not required
Ant4		1.347	1.805	0mm							



FCC SAR Test Report

Report No. : FA530724

WLAN5GHz		0.457		0mm							
NFC		0.001		0mm	-29.3	65.1	-177				
No.45 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant1	Front	3.324	1.497	0mm	-10	-87	-204	176.2	4.82	0.06	Not required
Ant5		1.039		0mm	-24.1	88.6	-204				
WLAN5GHz		0.457									
NFC		0.001									
Ant1	Front	3.324	1.497	0mm	-2.9	-85.2	-207	170.9	4.82	0.06	Not required
Ant5		1.039		0mm							
WLAN5GHz		0.457		0mm	3.1	85.6	-204				
NFC		0.001		0mm							
Ant1	Front	3.324	1.497	0mm	-2.9	-85.2	-207	155.5	4.82	0.07	Not required
Ant5		1.039		0mm							
WLAN5GHz		0.457		0mm							
NFC		0.001		0mm	-29.3	65.1	-177				
No.46 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant1	Front	3.324	2.975	0mm	-2.9	-85.2	-207	158.2	6.30	0.10	Not required
Ant7		2.517		0mm	5.4	72.8	-204				
WLAN5GHz		0.457									
NFC		0.001									
Ant1	Front	3.324	2.975	0mm	-2.9	-85.2	-207	170.9	6.30	0.09	Not required
Ant7		2.517		0mm							
WLAN5GHz		0.457		0mm	3.1	85.6	-204				
NFC		0.001		0mm							
Ant1	Front	3.324	2.875	0mm	-2.9	-85.2	-207	155.5	6.20	0.10	Not required
Ant7		2.417		0mm							
WLAN5GHz		0.457		0mm							
NFC		0.001		0mm	-29.3	65.1	-177				

No.47 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	3.080	2.629	0mm	6.5	-79.3	-207	175.5	5.71	0.08	Not required
Ant3		1.386		0mm	-54.5	85.2	-204				
WLAN2.4GHz		1.217		0mm							
NFC		0.026		0mm							
Ant0	Back	3.080	2.629	0mm	6.5	-79.3	-207	167.0	5.71	0.08	Not required
Ant1		1.386		0mm							
WLAN2.4GHz		1.217		0mm	-52.5	76.9	-207				
NFC		0.026		0mm							
Ant0	Back	3.080	2.629	0mm	6.5	-79.3	-207	152.5	5.71	0.09	Not required
Ant1		1.386		0mm							
WLAN2.4GHz		1.217		0mm							
NFC		0.026		0mm	29.3	68.5	-177				
No.48 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	3.080	2.731	0mm	6.5	-79.3	-207	157.3	5.81	0.09	Not required
Ant4		1.488		0mm	0.7	77.9	-207				
WLAN2.4GHz		1.217		0mm							
NFC		0.026		0mm							
Ant0	Back	3.080	2.731	0mm	6.5	-79.3	-207	167.0	5.81	0.08	Not required
Ant4		1.488		0mm							
WLAN2.4GHz		1.217		0mm	-52.5	76.9	-207				
NFC		0.026		0mm							
Ant0	Back	3.080	3.080	0mm	6.5	-79.3	-207	152.5	5.81	0.09	Not required



FCC SAR Test Report

Report No. : FA530724

Ant4		1.488		0mm							
WLAN2.4GHz		1.217	2.731	0mm							
NFC		0.026		0mm	29.3	68.5	-177				
No.49 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	3.080	3.080	0mm	6.5	-79.3	-207	171.7	5.48	0.07	Not required
Ant5		1.155	2.398	0mm	-32.5	87.9	-207				
WLAN2.4GHz		1.217		0mm							
NFC		0.026		0mm							
Ant0	Back	3.080	3.080	0mm	6.5	-79.3	-207	167.0	5.48	0.08	Not required
Ant5		1.155	2.398	0mm							
WLAN2.4GHz		1.217		0mm	-52.5	76.9	-207				
NFC		0.026		0mm							
Ant0	Back	3.080	3.080	0mm	6.5	-79.3	-207	152.5	5.48	0.08	Not required
Ant5		1.155	2.398	0mm							
WLAN2.4GHz		1.217		0mm							
NFC		0.026		0mm	29.3	68.5	-177				
No.50 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	3.080	3.080	0mm	6.5	-79.3	-207	177.4	5.34	0.07	Not required
Ant7		1.015	2.258	0mm	-53.5	87.6	-207				
WLAN2.4GHz		1.217		0mm							
NFC		0.026		0mm							
Ant0	Back	3.080	3.080	0mm	6.5	-79.3	-207	167.0	5.34	0.07	Not required
Ant7		1.015	2.258	0mm							
WLAN2.4GHz		1.217		0mm	-52.5	76.9	-207				
NFC		0.026		0mm							
Ant0	Back	3.080	3.080	0mm	6.5	-79.3	-207	152.5	5.34	0.08	Not required
Ant7		1.015	2.258	0mm							
WLAN2.4GHz		1.217		0mm							
NFC		0.026		0mm	29.3	68.5	-177				
No.51 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	164.8	5.39	0.08	Not required
Ant3		1.386	2.629	0mm	-54.5	85.2	-204				
WLAN2.4GHz		1.217		0mm							
NFC		0.026		0mm							
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	156.4	5.39	0.08	Not required
Ant3		1.386	2.629	0mm							
WLAN2.4GHz		1.217		0mm	-52.5	76.9	-207				
NFC		0.026		0mm							
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	167.2	5.39	0.07	Not required
Ant3		1.386	2.629	0mm							
WLAN2.4GHz		1.217		0mm							
NFC		0.026		0mm	29.3	68.5	-177				
No.52 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	162.2	5.49	0.08	Not required
Ant4		1.488	2.731	0mm	-6.8	78.9	-207				
WLAN2.4GHz		1.217		0mm							
NFC		0.026		0mm							
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	156.4	5.49	0.08	Not required
Ant4		1.488	2.731	0mm							
WLAN2.4GHz		1.217		0mm	-52.5	76.9	-207				
NFC		0.026		0mm							
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	167.2	5.49	0.08	Not required



FCC SAR Test Report

Report No. : FA530724

Ant4		1.488		0mm								
WLAN2.4GHz		1.217	2.731	0mm								
NFC		0.026		0mm	29.3	68.5	-177					
No.53 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
					X	Y	Z					
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	167.4	5.16	0.07	Not required	
Ant5		1.155	2.398	0mm	-32.5	87.9	-207					
WLAN2.4GHz		1.217		0mm								
NFC		0.026		0mm								
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	156.4	5.16	0.08	Not required	
Ant5		1.155	2.398	0mm								
WLAN2.4GHz		1.217		0mm	-52.5	76.9	-207					
NFC		0.026		0mm								
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	167.2	5.16	0.07	Not required	
Ant5		1.155	2.398	0mm								
WLAN2.4GHz		1.217		0mm								
NFC		0.026		0mm	29.3	68.5	-177					
No.54 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
					X	Y	Z					
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	167.1	5.02	0.07	Not required	
Ant7		1.015	2.258	0mm	-53.5	87.6	-207					
WLAN2.4GHz		1.217		0mm								
NFC		0.026		0mm								
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	156.4	5.02	0.07	Not required	
Ant7		1.015	2.258	0mm								
WLAN2.4GHz		1.217		0mm	-52.5	76.9	-207					
NFC		0.026		0mm								
Ant1	Back	2.763	2.763	0mm	-43	-79.2	-207	167.2	5.02	0.07	Not required	
Ant7		1.015	2.258	0mm								
WLAN2.4GHz		1.217		0mm								
NFC		0.026		0mm	29.3	68.5	-177					

17.7 Maximum Reported SAR and SAR Peak Locations

General Note:

1. The maximum reported SAR and SAR Peak Locations corresponding to each position of each frequency band of each antenna in the below tables are as follows.
2. The unit of SAR evaluation is W/kg. The unit of x, y, z with Axis evaluation is mm.

<Head>

Left Cheek 0mm												
Band		Ant0			Ant4			Ant5			Ant7	
GSM850	SAR		0.490									
	Axis	49.7	250.4	-174.9								
WCDMA V	SAR		0.343									
	Axis	53.6	264.6	-172.4								
LTE Band 7	SAR					0.369						
	Axis				12	319.6	-170.9					
LTE Band 12	SAR		0.226									
	Axis	53.3	260.3	-175.4								
LTE Band 13	SAR		0.289									
	Axis	51.5	261.1	-176.2								
LTE Band 25	SAR					0.628						
	Axis				4.7	314.6	-168.6					
LTE Band 26	SAR		0.332			0.423						
	Axis	52.6	261.9	-172.4	9.9	321.6	-169.2					
LTE Band 66	SAR					0.398						
	Axis				0.8	306.9	-168.1					
LTE Band 41	SAR					0.403						
	Axis				14.5	322.7	-171					
LTE Band 42	SAR								0.632			
	Axis							41.5	332.9	-170.1		
FR1 n2	SAR					0.495						
	Axis				7.1	312.2	-168.6					
FR1 n7	SAR					0.417						
	Axis				14.5	322.7	-171					
FR1 n26	SAR		0.239			0.473						
	Axis	55.3	263.6	-172.4	9.9	321.8	-169.2					
FR1 n66	SAR					0.573						
	Axis				2.9	307.4	-168.5					
FR1 n41	SAR					0.527						
	Axis				14.5	322.7	-171					
FR1 n77	SAR								0.806	3900.000		0.893 3900.000
	Axis							6	320.4	-173.4	38.3	336.8 -172.1

Bluetooth Ant6	SAR (W/kg)		0.269	
	Axis	26	331.6	-174.6

WLAN5GHz Ant5	SAR (W/kg)		0.393	
	Axis	25	340.9	-170.7



<Hotspot>

		Front 5mm																	
Band		Ant0			Ant1			Ant3			Ant4			Ant5			Ant7		
GSM850	SAR		0.964																
	Axis	-67.3	-70.5	-204															
GSM1900	SAR					1.258	1900.000												
	Axis				4.3	-76.4	-207												
WCDMA II	SAR					0.840													
	Axis				-1.9	-74.1	-207												
WCDMA IV	SAR					0.509	1750.000												
	Axis				-1.9	-74.1	-211.4												
WCDMA V	SAR		0.869																
	Axis	-68.2	-74.2	-204															
LTE Band 7	SAR					0.859	2600.000					0.149	2600.000						
	Axis				1	-73	-207				-61	89	-204						
LTE Band 12	SAR		0.854	750.000															
	Axis	-68.5	-75	-204															
LTE Band 13	SAR		0.876																
	Axis	-68.5	-75	-204															
LTE Band 25	SAR					0.704						0.230	1900.000						
	Axis				-8.5	-73.5	-204				-50	84	-204						
LTE Band 26	SAR		0.952	835.000								0.347							
	Axis	-68.5	-73.5	-204							-55	87	-204						
LTE Band 66	SAR					0.726						0.238	1750.000						
	Axis				-9.5	-87	-204				-53.5	87	-204						
LTE Band 41	SAR					1.113						0.183							
	Axis				1	-74	-207				-59.8	88	-204						
LTE Band 42	SAR														0.197	3500.000			
	Axis													-25	89	-204			
FR1 n2	SAR					0.995						0.225							
	Axis				-10	-87	-204				-53.5	75	-204						
FR1 n7	SAR					0.818													
	Axis				4.5	-77.5	-207				-62.2	83	-204						
FR1 n26	SAR		0.589									0.285							
	Axis	-68.5	-73.5	-204							-55	75	-204						
FR1 n66	SAR					0.285						0.252							
	Axis				-10	-87	-204				-53.5	87	-204						
FR1 n41	SAR					0.754						0.231							
	Axis				3.5	-77.5	-207				-61	81	-204						
FR1 n77	SAR								0.031	3900.000					0.216	3900.000	0.321	3900.000	
	Axis							-55	70	-204				-25	87.5	-204	4	60	

Bluetooth Ant6	SAR (W/kg)	0.304		
	Axis	-1	79	-204

WLAN5GHz Ant5	SAR (W/kg)	0.261		
	Axis	3	83	-204

Back 5mm																			
Band		Ant0			Ant1			Ant3			Ant4			Ant5			Ant7		
GSM850	SAR		1.430																
	Axis	19.2	-68.3	-207															
GSM1900	SAR					1.214													
	Axis				-42	-84.8	-204												
WCDMA II	SAR					0.774													



FCC SAR Test Report

Report No. : FA530724

WCDMA IV	Axis				-41.5	-85.5	-204												
	SAR					0.513													
WCDMA V	Axis				-40	-87	-204												
	SAR		1.258																
LTE Band 7	Axis	11.6	-69.3	-207															
	SAR					0.686					0.357								
LTE Band 12	Axis				-43	-85	-204			0.5	77.5	-207							
	SAR		1.149																
LTE Band 13	Axis	15	-69	-207															
	SAR		1.249																
LTE Band 25	Axis	15	-68.5	-207															
	SAR					0.546					0.473								
LTE Band 26	Axis				-45.7	-72.6	-207			-6.4	78.6	-207							
	SAR		1.363								0.509								
LTE Band 66	Axis	15	-68.5	-207						-7.2	81.3	-207							
	SAR					0.555					0.572								
LTE Band 41	Axis				-44.5	-71.7	-207			-6.1	79.4	-207							
	SAR					0.932					0.496								
LTE Band 42	Axis				-43.1	-73.1	-207			0.5	77.5	-207							
	SAR													0.433					
FR1 n2	Axis												-32.5	87	-207				
	SAR					1.066					0.556								
FR1 n7	Axis				-46.8	-74.1	-207			-6.7	84.6	-207							
	SAR					0.787					0.628								
FR1 n26	Axis				-45.5	-72.5	-207			-0.5	82	-207							
	SAR		0.969								0.493								
FR1 n66	Axis	13.2	-70	-207						-6	83.3	-207							
	SAR					1.006					0.554								
FR1 n41	Axis				-44.5	-76.5	-207			-5.8	82.5	-207							
	SAR					0.932					0.496								
FR1 n77	Axis				-44	-74	-207			-1	82	-207							
	SAR								0.626					0.465			0.626		
FR1 n77	Axis							-55	70	-204			-31.6	87	-207	-52	77	-207	
	SAR																		

Bluetooth Ant6	SAR (W/kg)	0.430		
	Axis	-51	80	-207

WLAN5GHz Ant5	SAR (W/kg)	0.530		
	Axis	-57.6	79	-207

Right Side 5mm																		
Band		Ant3			Ant4			Ant5			Ant7			Ant9				
LTE Band 7	SAR					0.026												
	Axis				-29	-64	-204											
LTE Band 25	SAR					0.036												
	Axis				-28.2	-36	-204											
LTE Band 26	SAR					0.092												
	Axis				-25.8	-46	-204											
LTE Band 66	SAR					0.037												
	Axis				-25	-46.5	-204											
LTE Band 41	SAR					0.039												
	Axis				-24.2	-63	-204											
LTE Band 42	SAR								0.040									
	Axis							-25	-77.5	-204								
FR1 n2	SAR					0.040												



FCC SAR Test Report

Report No. : FA530724

FR1 n7	Axis				-27.9	-35	-204										
	SAR					0.044											
FR1 n26	Axis				-28	-46.3	-204										
	SAR					0.078											
FR1 n66	Axis				-28.7	-46	-204										
	SAR					0.037											
FR1 n41	Axis				-25	-46.5	-204										
	SAR					0.044											
FR1 n77	Axis		0.020						0.063			0.499			1.292		
	Axis	-30.6	-71	-204				-26.6	-78	-204	-25	-69	-204	-32.7	67.2	-207	

WLAN2.4GHz Ant6	SAR (W/kg)	0.462		
	Axis	-24.2	-60	-204

Bluetooth Ant6	SAR (W/kg)	0.286		
	Axis	-25	-60	-204

WLAN5GHz Ant5	SAR (W/kg)	0.364		
	Axis	-26.6	-80	-204

<Body-worn>

Front 5mm																						
Band		Ant0			Ant1			Ant3			Ant4			Ant5			Ant7			Ant9		
GSM850	SAR		0.964																			
	Axis	-67.3	-70.5	-204																		
GSM1900	SAR					1.200																
	Axis				4.3	-76.4	-207															
WCDMA II	SAR					0.840																
	Axis				-1.9	-74.1	-207															
WCDMA IV	SAR					0.886																
	Axis				-1.9	-74.1	-211.4															
WCDMA V	SAR		0.869																			
	Axis	-68.2	-74.2	-204																		
LTE Band 7	SAR					0.947						0.305										
	Axis				1	-73	-207				-61	89	-204									
LTE Band 12	SAR		0.854																			
	Axis	-68.5	-75	-204																		
LTE Band 13	SAR		0.876																			
	Axis	-68.5	-75	-204																		
LTE Band 25	SAR					1.009						0.385										
	Axis				-8.5	-73.5	-204				-50	84	-204									
LTE Band 26	SAR		0.952									0.515										
	Axis	-68.5	-73.5	-204							-55	87	-204									
LTE Band 66	SAR					1.000						0.365										
	Axis				-9.5	-87	-204				-53.5	87	-204									
LTE Band 41	SAR					0.939						0.285										
	Axis				1	-74	-207				-59.8	88	-204									
LTE Band 42	SAR														0.310							
	Axis													-25	89	-204						
FR1 n2	SAR					1.379						0.362										
	Axis				-10	-87	-204				-53.5	75	-204									
FR1 n7	SAR					1.346						0.355										
	Axis				4.5	-77.5	-207				-62.2	83	-204									
FR1 n26	SAR		0.657									0.440										
	Axis	-68.5	-73.5	-204							-55	75	-204									
FR1 n66	SAR					1.254						0.405										
	Axis				-10	-87	-204				-53.5	87	-204									



FCC SAR Test Report

Report No. : FA530724

FR1 n41	SAR				0.818					0.350									
	Axis				3.5	-77.5	-207			-61	81	-204							
FR1 n77	SAR								0.044				0.418		0.454		0.623		
	Axis							-55	70	-204			-25	87.5	-204	4	60	-204	13

Bluetooth Ant6	SAR (W/kg)	0.342		
	Axis	-1	79	-204

WLAN5GHz Ant5	SAR (W/kg)	0.268		
	Axis	3	83	-204

BACK 5mm																			
Band		Ant0			Ant1			Ant3			Ant4			Ant5			Ant7		
GSM850	SAR		1.430																
	Axis	19.2	-68.3	-207															
GSM1900	SAR					1.158													
	Axis				-42	-84.8	-204												
WCDMA II	SAR					0.734													
	Axis				-41.5	-85.5	-204												
WCDMA IV	SAR					0.795													
	Axis				-40	-87	-204												
WCDMA V	SAR		1.258																
	Axis	11.6	-69.3	-207															
LTE Band 7	SAR					0.736						0.874							
	Axis				-43	-85	-204				0.5	77.5	-207						
LTE Band 12	SAR		1.149																
	Axis	15	-69	-207															
LTE Band 13	SAR		1.249																
	Axis	15	-68.5	-207															
LTE Band 25	SAR					1.071						0.886							
	Axis				-45.7	-72.6	-207				-6.4	78.6	-207						
LTE Band 26	SAR		1.363									0.893							
	Axis	15	-68.5	-207							-7.2	81.3	-207						
LTE Band 66	SAR					1.064						0.874							
	Axis				-44.5	-71.7	-207				-6.1	79.4	-207						
LTE Band 41	SAR					0.787						0.890							
	Axis				-43.1	-73.1	-207				0.5	77.5	-207						
LTE Band 42	SAR													0.884					
	Axis												-32.5	87	-207				
FR1 n2	SAR					1.447						0.883							
	Axis				-46.8	-74.1	-207				-6.7	84.6	-207						
FR1 n7	SAR					1.319						0.885							
	Axis				-45.5	-72.5	-207				-0.5	82	-207						
FR1 n26	SAR		0.969									0.784							
	Axis	13.2	-70	-207							-6	83.3	-207						
FR1 n66	SAR					1.263						0.888							
	Axis				-44.5	-76.5	-207				-5.8	82.5	-207						
FR1 n41	SAR					0.775						0.890							
	Axis				-44	-74	-207				-1	82	-207						
FR1 n77	SAR							0.877						0.903			0.884		1.122
	Axis							6	59	-207				-31.6	87	-207	-52	77	-207

Bluetooth Ant6	SAR (W/kg)		0.430	
	Axis	-51	80	-207



WLAN5GHz Ant5	SAR (W/kg)	0.261		
	Axis	-57.6	79	-207

<Extremity>

Front 0mm													
Band		Ant0			Ant1			Ant4			Ant5		
GSM850	SAR		2.688										
	Axis	-69.3	-72.5	-204									
GSM1900	SAR					2.505							
	Axis				5.3	-87.2	-207						
WCDMA II	SAR					2.996							
	Axis				-2.9	-85.2	-207						
WCDMA IV	SAR					1.503							
	Axis				-2.3	-85.5	-211.4						
LTE Band 7	SAR					2.291			0.968	2600.000			
	Axis				3	-89	-207	-61	83	-204			
LTE Band 25	SAR					2.254			1.013	1900.000			
	Axis				4.9	-89.2	-204	-47	76	-204			
LTE Band 66	SAR					1.825			1.347	1750.000			
	Axis				-9.5	-87	-204	-63	78	-204			
LTE Band 42	SAR										1.039		
	Axis										-26	89.7	-204
FR1 n2	SAR					2.517							
	Axis				-10	-87	-204						
FR1 n7	SAR					2.471			1.133				
	Axis				4.5	-87.5	-207	-60	80.8	-204			
FR1 n66	SAR					2.381			1.307				
	Axis				-10	-87	-204	-60	79	-204			
FR1 n41	SAR					1.966			0.949				
	Axis				3.5	-87.5	-207	-59.8	80	-204			
FR1 n77	SAR										1.022		2.517
	Axis										-24.1	88.6	-204

NFC	SAR (W/kg)	0.001		
	Axis	-29.3	65.1	-177

WLAN5GHz Ant5	SAR (W/kg)	0.261		
	Axis	3.1	85.6	-204

Back 0mm													
Band		Ant0			Ant1			Ant3			Ant4		
GSM850	SAR		3.427										
	Axis	10.4	-83.9	-207									
GSM1900	SAR					2.518							
	Axis				-41.5	-82	-204						
WCDMA II	SAR					2.971							
	Axis				-41.5	-85.5	-204						
WCDMA IV	SAR					1.566							
	Axis				-40	-87.5	-207						
WCDMA V	SAR		2.188										
	Axis	6.5	-79.3	-207									
LTE Band 7	SAR					1.607				1.821			
	Axis				-42.1	-86.8	-204		0.7	77.9	-207		
LTE Band 25	SAR					2.343				1.738			
	Axis				-47	-88.8	-207		-6.8	78.9	-207		



FCC SAR Test Report

Report No. : FA530724

LTE Band 26	SAR		2.538							1.914								
	Axis	14	-82.4	-207						-7.5	82.7	-207						
LTE Band 66	SAR					1.876					1.906							
	Axis				-40	-87.5	-207			-6.9	80.3	-207						
LTE Band 41	SAR										1.680							
	Axis									0.7	77.9	-207						
LTE Band 42	SAR													1.155				
	Axis												-32.5	87.9	-207			
FR1 n2	SAR					2.763					1.260							
	Axis				-43	-79.2	-207			-6.9	84.9	-207						
FR1 n7	SAR					1.651					1.174							
	Axis				-44.5	-83.7	-207			-0.9	82.4	-207						
FR1 n66	SAR					2.509					1.325							
	Axis				-47.5	-85	-207			-6.4	82.9	-207						
FR1 n41	SAR					1.978					0.933							
	Axis				-42.5	-83.9	-207			-1.8	82.4	-207						
FR1 n77	SAR							1.868						1.010			1.015	
	Axis							-54.5	85.2	-204			-32.6	88.9	-207	-53.5	87.6	-207

WLAN2.4GHz Ant6	SAR (W/kg)	0.659		
	Axis	-52.5	76.9	-207

NFC	SAR (W/kg)	0.026		
	Axis	29.3	68.5	-177

Test Engineer : Martin Li, Varus Wang, Light Wang, Ricky Gu

18. 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.

19. 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 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [9] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [14] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015

Appendixes

Please refer to separated files for the following appendixes

Appendix A. Plots of System Performance Check

Appendix B. Plots of High SAR Measurement

Appendix C. DASY Calibration Certificate

Appendix D. Test Setup Photos

Appendix E. Conducted RF Output Power Table

Appendix F. Power measurement connection diagram and CA Conducted RF Output Power Table

Appendix G. Power reduction mechanism verification

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