

FCC SAR Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : Xiaomi
MODEL NAME : 2602EPTC0G
FCC ID : 2AFZZPTC0G
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

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA5D2207	Rev. 01	Initial issue of report.	Feb. 10, 2026

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Xiaomi Communications Co., Ltd., Mobile Phone, 2602EPTC0G**, are as follows.

Highest 1g SAR Summary							
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission	
			1g SAR (W/kg)			1g SAR (W/kg)	
Licensed	GSM	GSM850	1.01	0.67	1.01	1.58	
		GSM1900	1.05	0.62	1.00		
	WCDMA	WCDMA V	0.98	0.76	1.08		
		WCDMA II	1.01	0.86	1.08		
		WCDMA IV	1.09	0.75	1.07		
	LTE	LTE Band 7	1.01	0.89	1.09		
		LTE Band 12/17	0.79	0.78	0.93		
		LTE Band 13	1.08	0.78	1.08		
		LTE Band 25/2	1.09	0.90	1.09		
		LTE Band 26/5	1.05	0.71	1.01		
		LTE Band 41/38	1.08	0.64	1.09		
		LTE Band 48	1.05	0.41	0.96		
		LTE Band 66/4	1.09	0.89	1.06		
		LTE Band 71	1.09	0.84	1.09		
		LTE Band 42	1.04	0.87	1.03		
		5G NR	FR1 n7	1.07	0.58		1.08
			FR1 n12	1.08	0.78		1.04
	FR1 n25/n2		1.09	0.63	1.07		
	FR1 n26/n5		1.01	0.79	1.00		
	FR1 n41/n38		1.07	0.54	0.95		
	FR1 n48		0.91	0.36	0.97		
	FR1 n66		1.04	0.56	1.09		
	FR1 n71		0.97	0.84	1.02		
		FR1 n77/n78	1.02	0.39	0.98		
DTS	WLAN	2.4GHz WLAN	1.09	0.79	0.98	1.58	
NII		5GHz WLAN	1.05	0.75	1.01	1.58	
6CD/VLP		6GHz WLAN	1.06		0.35	1.58	
DSS	Bluetooth	2.4GHz Bluetooth	0.66	0.27	0.43	1.58	
Highest 10g SAR Summary							
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)			Highest Simultaneous Transmission 10g SAR (W/kg)	
Licensed	LTE	LTE Band 13	1.42			2.30	
		LTE Band 26/5	1.61				
	5G NR	FR1 n12	0.74				
		FR1 n26/n5	0.70				
NII	WLAN	5GHz WLAN	2.30			2.30	
6CD/VLP		6GHz WLAN	0.54			2.30	
Highest Total Exposure Ratio			Ratio ≤ 1.0				
			1g Ratio		10g Ratio		
			0.99		0.58		
Equipment Class	Frequency Band		Measured APD			Reported PD	
			Head (W/m^2)	Body Worn (W/m^2)	Phablet (W/m^2)	psPD (W/m^2)	



6CD/VLP	6GHz WLAN	5.55	2.24	10.4	7.95
Date of Testing:		2026/1/1 ~ 2026/1/19			

Remark:

1. This device supports LTE B2/4/5/17/38 and B25/66/26/12/41. Since the supported frequency span for LTE B2/4/5/17/38 falls completely within the support's frequency span for LTE B25/66/26/12/41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25/66/26/12/41.
2. This device supports 5GNR n2/n5/n38/n78 and n25/n26/n41/n77. Since the supported frequency span for 5GNR n2/n5/n38/n78 falls completely within the support's frequency span for n25/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 n25/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 Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 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 5145.01.

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 SAR07-KS	CN1257	314309

Applicant	
Company Name	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer	
Company Name	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

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
- IEC/IEEE 62209-1528:2020
- IEC TR 63170:2018
- IEC 62479:2010
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Phone
Brand Name	Xiaomi
Model Name	2602EPTC0G
FCC ID	2AFZZPTC0G
IMEI Code	862177080070801/862177080070819, 862177080070686/862177080070694, 862177080076741/862177080076758, 862177080070744/862177080070751
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 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz WLAN 6GHz U-NII 5: 5925 MHz ~ 6425 MHz WLAN 6GHz U-NII 6: 6425 MHz ~ 6525 MHz WLAN 6GHz U-NII 7: 6525 MHz ~ 6875 MHz WLAN 6GHz U-NII 8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz WPT: 111 kHz~ 148.5 kHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA

	HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20 WLAN 2.4GHz 802.11ax/be HE20/EHT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 5GHz 802.11be EHT20/EHT40/EHT80/EHT160 WLAN 6GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11be EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE NFC: ASK WPT: ASK
HW Version	1351P2504
SW Version	Xiaomi HyperOS 3.0
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark: 1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. 2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications. 3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). WLAN6GHz has no hotspot function. 4. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO/MIMO antenna mode. 802.11b/g supports SISO mode for 2.4GHz WLAN 5. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12. 6. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). 7. The device implements 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 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. 8. For WLAN when transmit simultaneously with WWAN/BT, the device WLAN power will be reduced power at head, body-worn, hotspot and extremity exposure conditions. 9. For BT when transmit simultaneously with WWAN/WLAN, the device BT power will be reduced power at head exposure conditions. 10. This device supports HPUE mode for 5GNR n41/n77/n78 with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so power class 3 was chosen to perform full SAR testing and power class 2 verified the worst case of power class 3 SAR. 11. For 5GNR n41/n77/n78 HPUE, 5GNR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands, using FTM to perform SAR with default 100% transmission. 12. Bluetooth BR/EDR supports Beamforming mode, and BLE don't supports Beamforming mode. 13. The device support DBS (Dual Band Simultaneous) function, when the device WLAN 2.4GHz and WLAN 5GHz (or WLAN 6GHz) transmit at the same time the device will limit different output power for simultaneous transmission compliance. 14. There are three type of EUTs. The difference between them are memory/capacity and battery manufacturer. Sample 1 is 12+512G memory with NVT battery, sample 2 is 12+1T memory with SWD battery and sample 3 is 12+256G memory with NVT battery. According to the difference, sample 1 was chosen to perform full SAR testing. 15. This device has NFC function and the NFC SAR report will be separately submitted. 16. RF exposure report for WPC (Wireless power charging) will be separately submitted. 17. 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
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
	n12	FDD	15	5, 10, 15
	n66	FDD	15	5, 10, 15, 20, 25, 30, 40
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 80, 90, 100
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
SA	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
	n26	FDD	15	5, 10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 25, 30, 40
	n71	FDD	15	5, 10, 15, 20
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 80, 90, 100
	n48	TDD	30	10, 15, 20, 40
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100



4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																													
FCC ID	2AFZZPTC0G																																																																												
Equipment Name	Mobile 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 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																																												
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 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 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																																												
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																																												
LTE Voice / Data requirements	Voice and Data																																																																												
LTE Release Version	R15																																																																												
CA Support	Supported, Uplink and Downlink																																																																												
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>							Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
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QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																																						
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																						
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																																						
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																																						
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																																						
256 QAM	≥ 1						≤ 5																																																																						
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																																												
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																												
Power reduction applied to satisfy SAR compliance	Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body-worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 14.																																																																												
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 14.																																																																												
LTE Carrier Aggregation Additional Information	1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and Inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 2 carriers in the uplink.																																																																												



Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)					
L	23205		779.5		23230		782					
M	23230		782									
H	23255		784.5									
LTE Band 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	26765	821.5
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	26965	841.5

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

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

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

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

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

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



<For LTE Overlap Bands Description>

1) LTE Bands BW

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

2) LTE Bands tune up:

Band	Antenna	Full Power Tune-up Limit	ECI1	ECI3	ECI5	ECI4
			Receiver on Tune-up Limit	Sensor on Tune-up Limit	Hotspot Tune-up Limit	Sensor off Tune-up Limit
LTE Band 5	Ant 0	25.70	25.70	25.20	25.20	25.20
LTE Band 26	Ant 0	25.70	25.70	25.20	25.20	25.20
LTE Band 5 Other PA	Ant 0	25.50	25.50	25.50	25.50	25.50
LTE Band 5	Ant 1	25.70	21.20	21.20	21.20	25.70
LTE Band 26	Ant 1	25.70	22.20	21.70	21.70	25.70
LTE Band 5 Other PA	Ant 1	25.70	21.20	21.20	21.20	25.70
LTE Band 12	Ant 0	25.50	25.50	25.50	25.50	25.50
LTE Band 17	Ant 0	25.50	25.50	25.50	25.50	25.50
LTE Band 12	Ant 1	25.70	22.70	22.20	22.20	25.70
LTE Band 17	Ant 1	25.70	22.70	22.20	22.20	25.70
LTE Band 2	Ant 2	25.00	18.00	20.00	18.00	25.00
LTE Band 25	Ant 2	25.00	18.00	20.00	18.00	25.00
LTE Band 2 Other PA	Ant 2	25.50	18.50	20.50	18.50	25.50
LTE Band 2 Other PA-1	Ant 2	25.00	18.00	20.00	18.00	25.00
LTE Band 2	Ant 3	25.50	17.50	19.00	17.50	25.50
LTE Band 25	Ant 3	25.50	18.50	19.00	18.50	25.50
LTE Band 2 Other PA	Ant 3	24.70	16.70	18.20	16.70	24.70
LTE Band 2 Other PA-1	Ant 3	25.50	17.50	19.00	17.50	25.50
LTE Band 2	Ant 4	25.00	25.00	21.00	21.00	21.00
LTE Band 25	Ant 4	25.00	25.00	21.00	21.00	21.00
LTE Band 2 Other PA	Ant 4	25.50	25.50	21.00	21.00	21.00
LTE Band 2 Other PA-1	Ant 4	25.50	25.50	21.00	21.00	21.00
LTE Band 2	Ant 5	24.00	18.50	20.00	18.50	20.00
LTE Band 25	Ant 5	24.00	18.50	20.00	18.50	20.00
LTE Band 2 Other PA	Ant 5	24.50	18.50	20.00	18.50	20.00
LTE Band 2 Other PA-1	Ant 5	24.50	18.50	20.00	18.50	20.00
LTE Band 4	Ant 2	25.70	18.20	19.70	18.20	25.70
LTE Band 66	Ant 2	25.70	18.20	19.70	18.20	25.70
LTE Band 4 Other PA	Ant 2	25.70	18.20	19.70	18.20	25.70
LTE Band 66 Other PA	Ant 2	25.70	18.20	19.70	18.20	25.70
LTE Band 4 Other PA-1	Ant 2	24.00	18.50	20.00	18.50	24.00
LTE Band 66 Other PA-1	Ant 2	24.00	18.50	20.00	18.50	24.00
LTE Band 4	Ant 3	25.70	17.20	18.20	17.20	25.70
LTE Band 66	Ant 3	25.70	17.20	18.20	17.20	25.70
LTE Band 4 Other PA	Ant 3	25.70	17.20	18.20	17.20	25.70
LTE Band 66 Other PA	Ant 3	25.70	17.20	18.20	17.20	25.70
LTE Band 4 Other PA-1	Ant 3	24.50	18.00	19.00	18.00	24.50



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LTE Band 66 Other PA-1	Ant 3	24.50	18.00	19.00	18.00	24.50
LTE Band 4	Ant 4	25.70	25.70	19.20	19.20	19.20
LTE Band 66	Ant 4	25.70	25.70	19.20	19.20	19.20
LTE Band 4 Other PA	Ant 4	25.70	25.70	18.70	18.70	18.70
LTE Band 66 Other PA	Ant 4	25.70	25.70	18.70	18.70	18.70
LTE Band 4 Other PA-1	Ant 4	24.50	24.50	19.50	19.50	19.50
LTE Band 66 Other PA-1	Ant 4	24.50	24.50	19.50	19.50	19.50
LTE Band 4	Ant 5	25.00	19.00	19.50	19.00	19.50
LTE Band 66	Ant 5	25.00	19.00	19.50	19.00	19.50
LTE Band 4 Other PA	Ant 5	25.50	19.00	19.50	19.00	19.50
LTE Band 66 Other PA	Ant 5	25.50	19.00	19.50	19.00	19.50
LTE Band 4 Other PA-1	Ant 5	23.50	19.00	19.50	19.00	19.50
LTE Band 66 Other PA-1	Ant 5	23.50	19.00	19.50	19.00	19.50
LTE Band 38	Ant 2	25.70	19.70	19.70	19.70	25.70
LTE Band 41	Ant 2	25.70	19.70	19.70	19.70	25.70
LTE Band 38	Ant 3	25.70	20.20	22.20	20.20	25.70
LTE Band 41	Ant 3	25.70	20.20	23.20	20.20	25.70
LTE Band 38	Ant 4	25.50	25.50	22.00	22.00	22.00
LTE Band 41	Ant 4	25.50	25.50	22.00	22.00	22.00
LTE Band 38	Ant 5	24.50	20.50	22.00	20.50	22.00
LTE Band 41	Ant 5	24.50	20.50	22.00	20.50	22.00

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 n12: 699 MHz ~ 716 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz
Channel Bandwidth	The detail please refers to section 4.1 5GNR FR1 bands table.
SCS	FDD/TDD: SCS15KHz/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 B4/66/7
LTE Anchor Bands for n5	LTE B7
LTE Anchor Bands for n7	LTE B2/4/5/66
LTE Anchor Bands for n66	LTE B2/5/7/66
LTE Anchor Bands for n38	LTE B2/4/5/66
LTE Anchor Bands for n41	LTE B2/4/5/66
LTE Anchor Bands for n77	LTE B2/71
LTE Anchor Bands for n78	LTE B2/4/5/7/26/38/41/66/71

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band								
NR Band 2								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900

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

NR Band 7																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz	
	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	504000	2520	505000	2525
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	510000	2550	509000	2545

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

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



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

NR Band 66														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	346000	1730
M	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	352000	1760

NR Band 71								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133100	665.5	133600	668	134100	670.5	134600	673
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5
H	139100	695.5	138600	693	138100	690.5	137600	688

NR Band 38												
	Bandwidth10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	515000	2575	515500	2577.5	516000	2580	516500	2582.5	517000	2585	518000	2590
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	523000	2615	522500	2612.5	522000	2610	521500	2607.5	521000	2605	5120000	2600

NR Band 41																				
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		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)	
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	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
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	529998	2649.99	528996	2644.98	528000	2640

NR Band 48								
	Bandwidth 10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	637000	3555	637168	3557.52	637334	3560.01	638000	3570
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99
H	646332	3694.98	646166	3692.49	646000	3690	645332	3679.98

NR Band 77																					
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)
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
656000	3840	656000	3840	656000	3840.00	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
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 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)		
L	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	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750		
H	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 <3450 MHz ~ 3550 MHz >

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 630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M 633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H 636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

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 630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M 633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H 636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

<For NR Overlap Bands Description>

1) NR Bands BW

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

2) NR Bands Tune up:

Band	Antenna	Full Power	ECI1	ECI3	ECI5	ECI4
			Receiver on	Sensor on	Hotspot	Sensor off
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit
FR1 n5	Ant 0	25.70	25.70	25.70	25.70	25.70
FR1 n26	Ant 0	25.70	25.70	25.70	25.70	25.70
FR1 n5 Other PA	Ant 0	25.50	25.50	25.50	25.50	25.50
FR1 n5	Ant 1	25.70	22.20	21.70	21.70	25.70
FR1 n26	Ant 1	25.70	22.20	21.70	21.70	25.70
FR1 n5 Other PA	Ant 1	25.70	22.20	21.70	21.70	25.70
FR1 n2	Ant 2	25.00	18.50	20.50	18.50	25.00
FR1 n25	Ant 2	25.00	18.50	21.00	18.50	25.00
FR1 n2 Other PA	Ant 2	25.50	19.00	21.00	19.00	25.50
FR1 n2 Other PA-1	Ant 2	25.00	18.50	20.50	18.50	25.00
FR1 n2	Ant 3	25.50	18.50	19.50	18.50	25.50
FR1 n25	Ant 3	25.50	18.50	19.50	18.50	25.50
FR1 n2 Other PA	Ant 3	25.20	17.20	19.20	17.20	25.20
FR1 n2 Other PA-1	Ant 3	25.00	17.50	19.50	17.50	25.00
FR1 n2	Ant 4	25.00	25.00	20.50	20.50	20.50
FR1 n25	Ant 4	25.00	25.00	20.50	20.50	20.50
FR1 n2 Other PA	Ant 4	25.50	25.50	20.50	20.50	20.50
FR1 n2 Other PA-1	Ant 4	25.00	25.00	20.50	20.50	20.50
FR1 n2	Ant 5	24.00	19.00	20.00	19.00	20.00
FR1 n25	Ant 5	24.00	19.00	20.00	19.00	20.00
FR1 n2 Other PA	Ant 5	24.50	19.00	20.00	19.00	20.00



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FR1 n2 Other PA-1	Ant 5	24.00	19.00	20.00	19.00	20.00
FR1 n38 PC3	Ant 2	25.70	17.20	17.70	17.20	25.20
FR1 n41 PC3	Ant 2	25.70	17.20	17.70	17.20	25.20
FR1 n41 PC2	Ant 2	27.50	20.50	21.00	20.50	27.50
FR1 n38 PC3	Ant 3	25.70	17.20	19.20	17.20	25.70
FR1 n41 PC3	Ant 3	25.70	17.20	19.20	17.20	25.70
FR1 n41 PC2	Ant 3	28.00	21.00	23.00	21.00	28.00
FR1 n38 PC3	Ant 4	25.70	25.70	20.70	20.70	20.70
FR1 n41 PC3	Ant 4	25.70	25.70	20.70	20.70	20.70
FR1 n41 PC2	Ant 4	27.00	27.00	24.00	24.00	24.00
FR1 n38 PC3	Ant 5	24.50	18.00	19.00	18.00	19.00
FR1 n41 PC3	Ant 5	25.00	18.50	19.50	18.50	19.50
FR1 n41 PC2	Ant 5	26.00	21.50	22.50	21.50	22.50
FR1 n77 PC3	Ant 6	25.00	16.00	19.00	16.00	25.00
FR1 n77 PC2	Ant 6	26.50	19.00	22.00	19.00	26.50
FR1 n78 PC3	Ant 6	26.00	14.00	18.00	14.00	26.00
FR1 n78 PC2	Ant 6	28.00	17.00	21.00	17.00	28.00
FR1 n77 PC3	Ant 7	24.00	17.00	18.50	17.00	24.00
FR1 n77 PC2	Ant 7	25.50	20.00	21.50	20.00	25.50
FR1 n78 PC3	Ant 7	25.00	16.00	18.50	16.00	25.00
FR1 n78 PC2	Ant 7	27.00	19.00	21.50	19.00	27.00
FR1 n77 PC3	Ant 8	25.50	14.00	17.50	14.00	17.50
FR1 n77 PC2	Ant 8	27.00	17.00	20.50	17.00	20.50
FR1 n78 PC3	Ant 8	26.50	14.00	18.00	14.00	18.00
FR1 n78 PC2	Ant 8	28.50	17.00	21.00	17.00	21.00
FR1 n77 PC3	Ant 9	25.00	17.00	20.00	17.00	25.00
FR1 n77 PC2	Ant 9	26.50	20.00	23.00	20.00	26.50
FR1 n78 PC3	Ant 9	26.00	16.50	19.50	16.50	26.00
FR1 n78 PC2	Ant 9	28.00	19.50	22.50	19.50	28.00

5. TA-SAR feature for RF Exposure compliance

WWAN and WLAN bands are all enabled with MediaTek TA-SAR 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 BT operations are not enabled with TA-SAR 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 and WLAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window. To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

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 algorithm. SAR char will be entered via the MediaTek's NV suggestion to enable the TA-SAR 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 WWAN and WLAN bands. It will then be used as input for TA-SAR algorithm to control and manage RF exposure for WWAN and WLAN bands.

To account for total uncertainty, SAR_{design_target} should be determined as:

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

Antenna Group:

Antenna Group 0 (AG0)	ANT1 & ANT2 & ANT3 & ANT5 & ANT6 & ANT7 & ANT8 & ANT9
Antenna Group 1 (AG1)	ANT0 & ANT4

The TA-SAR 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	ECI 1 Receiver on	ECI3 Sensor on	ECI4 Sensor off	ECI5 Hotspot on	Pmax*	Total Uncertainty dB (k=2)
GSM850	Ant 0	29.40	26.10	26.10	27.30	24.0	1.00
GSM850	Ant 1	20.00	19.50	24.90	19.50	24.5	1.50
GSM1900	Ant 2	17.50	19.50	29.80	17.50	21.0	1.00
GSM1900	Ant 4	32.90	19.50	19.50	19.50	20.5	1.50
WCDMA II	Ant 2	16.50	18.50	29.10	16.50	24.0	1.00
WCDMA II	Ant 4	31.30	19.50	19.50	19.50	23.5	1.50
WCDMA IV	Ant 2	17.00	18.50	27.10	17.00	24.0	1.00
WCDMA IV	Ant 4	30.40	18.50	18.50	18.50	23.5	1.50
WCDMA V	Ant 0	30.10	26.20	26.20	27.20	24.0	1.00
WCDMA V	Ant 1	20.00	20.00	25.90	20.00	24.5	1.20
LTE Band 7	Ant 2	17.00	17.50	26.40	17.00	25.0	0.70
LTE Band 7	Ant 3	17.50	19.00	26.70	17.50	25.0	0.70
LTE Band 7	Ant 4	29.60	20.00	20.00	20.00	24.5	1.20
LTE Band 7	Ant 5	17.00	18.50	18.50	17.00	23.0	1.50
LTE Band 12(17)	Ant 0	32.10	26.30	26.30	26.80	24.5	1.00
LTE Band 12(17)	Ant 1	22.00	21.50	27.70	21.50	25.0	0.70
LTE Band 13	Ant 0	31.80	27.10	27.10	27.30	24.5	1.00
LTE Band 13	Ant 1	22.50	22.00	30.00	22.00	25.0	0.70
LTE Band 25(2)	Ant 2	17.00	19.00	28.60	17.00	24.0	1.00
LTE Band 2 other pa	Ant 2	17.00	19.00	28.80	17.00	24.0	1.50
LTE Band 2 other pa-1	Ant 2	17.00	19.00	29.00	17.00	24.0	1.00
LTE Band 25	Ant 3	17.00	17.50	26.10	17.00	24.0	1.50
LTE Band 2	Ant 3	16.00	17.50	26.10	16.00	24.0	1.50
LTE Band 2 other pa	Ant 3	16.00	17.50	26.10	16.00	24.0	0.70
LTE Band 2 other pa-1	Ant 3	16.00	17.50	26.10	16.00	24.0	1.50
LTE Band 25(2)	Ant 4	31.70	19.50	19.50	19.50	23.5	1.50
LTE Band 2 other pa	Ant 4	31.70	19.50	19.50	19.50	24.0	1.50
LTE Band 2 other pa-1	Ant 4	31.70	19.50	19.50	19.50	24.0	1.50
LTE Band 25(2)	Ant 5	17.00	18.50	18.50	17.00	22.5	1.50
LTE Band 2 other pa	Ant 5	17.00	18.50	18.50	17.00	23.0	1.50
LTE Band 2 other pa-1	Ant 5	17.00	18.50	18.50	17.00	23.0	1.50
LTE Band 26(5)	Ant 0	30.10	24.50	24.50	24.50	25.0	0.70
LTE Band 5 other pa	Ant 0	30.10	24.50	24.50	24.50	24.5	1.00
LTE Band 26	Ant 1	21.50	21.00	30.40	21.00	25.0	0.70
LTE Band 5	Ant 1	20.50	20.50	30.40	20.50	25.0	0.70
LTE Band 5 other pa	Ant 1	20.50	20.50	30.40	20.50	25.0	0.70
LTE Band 66(4)	Ant 2	17.50	19.00	28.10	17.50	25.0	0.70
LTE Band 66(4) other pa	Ant 2	17.50	19.00	28.10	17.50	25.0	0.70
LTE Band 66(4) other pa-1	Ant 2	17.50	19.00	28.10	17.50	23.0	1.00
LTE Band 66(4)	Ant 3	16.50	17.50	25.40	16.50	25.0	0.70
LTE Band 66(4) other pa	Ant 3	16.50	17.50	25.40	16.50	25.0	0.70
LTE Band 66(4) other pa-1	Ant 3	16.50	17.50	25.40	16.50	23.0	1.50
LTE Band 66(4)	Ant 4	30.50	18.00	18.00	18.00	24.5	1.20
LTE Band 66(4) other pa	Ant 4	30.50	18.00	18.00	18.00	25.0	0.70
LTE Band 66(4) other pa-1	Ant 4	30.50	18.00	18.00	18.00	23.0	1.50
LTE Band 66(4)	Ant 5	17.50	18.00	18.00	17.50	23.5	1.50
LTE Band 66(4) other pa	Ant 5	17.50	18.00	18.00	17.50	24.0	1.50
LTE Band 66(4) other pa-1	Ant 5	17.50	18.00	18.00	17.50	22.0	1.50



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LTE Band 71	Ant 0	35.50	28.30	28.30	28.60	24.0	1.00
LTE Band 71	Ant 1	22.50	22.00	29.70	22.00	24.5	1.20
LTE Band 41(38)	Ant 2	17.00	17.00	26.10	17.00	23.0	0.70
LTE Band 38	Ant 3	17.50	19.50	27.40	17.50	23.0	0.70
LTE Band 41	Ant 3	17.50	20.50	27.40	17.50	23.0	0.70
LTE Band 41(38)	Ant 4	31.10	18.50	18.50	18.50	22.0	1.50
LTE Band 41(38)	Ant 5	17.00	18.50	18.50	17.00	21.0	1.50
LTE Band 42	Ant 6	13.50	19.00	28.20	13.50	23.0	1.00
LTE Band 42	Ant 7	15.50	19.00	27.50	15.50	21.0	1.50
LTE Band 42	Ant 8	13.00	16.00	16.00	13.00	22.5	1.50
LTE Band 42	Ant 9	15.50	17.00	26.90	15.50	22.0	1.50
LTE Band 48	Ant 6	14.00	19.50	32.00	14.00	22.0	1.00
LTE Band 48	Ant 7	16.00	19.00	27.70	16.00	20.5	1.50
LTE Band 48	Ant 8	15.00	18.50	18.50	15.00	22.0	1.50
LTE Band 48	Ant 9	14.50	18.50	26.30	14.50	21.0	1.50
FR1 n7	Ant 2	17.00	18.00	27.30	17.00	25.0	0.70
FR1 n7	Ant 3	17.50	19.00	28.20	17.50	25.0	0.70
FR1 n7	Ant 4	31.30	20.50	20.50	20.50	24.5	1.20
FR1 n7	Ant 5	17.50	19.00	19.00	17.50	23.5	1.50
FR1 n12	Ant 0	32.00	29.00	29.00	28.00	24.5	1.00
FR1 n12	Ant 1	22.50	22.00	29.10	22.00	25.0	0.70
FR1 n25	Ant 2	17.50	20.00	27.60	17.50	24.0	1.00
FR1 n2	Ant 2	17.50	19.50	27.60	17.50	24.0	1.00
FR1 n2 other pa	Ant 2	17.50	19.50	27.60	17.50	24.0	1.50
FR1 n2 other pa-1	Ant 2	17.50	19.50	27.60	17.50	24.0	1.00
FR1 n25	Ant 3	17.00	18.00	25.90	17.00	24.0	1.50
FR1 n2	Ant 3	16.00	18.00	25.90	16.00	24.0	1.50
FR1 n2 other pa	Ant 3	16.00	18.00	25.90	16.00	24.0	1.20
FR1 n2 other pa-1	Ant 3	16.00	18.00	25.90	16.00	23.5	1.50
FR1 n25(2)	Ant 4	33.00	19.00	19.00	19.00	23.5	1.50
FR1 n2 other pa	Ant 4	33.00	19.00	19.00	19.00	24.0	1.50
FR1 n2 other pa-1	Ant 4	33.00	19.00	19.00	19.00	23.5	1.50
FR1 n25(2)	Ant 5	17.50	18.50	18.50	17.50	22.5	1.50
FR1 n2 other pa	Ant 5	17.50	18.50	18.50	17.50	23.0	1.50
FR1 n2 other pa-1	Ant 5	17.50	18.50	18.50	17.50	22.5	1.50
FR1 n26(5)	Ant 0	30.20	25.90	25.90	28.20	25.0	0.70
FR1 n5 other pa	Ant 0	30.20	25.90	25.90	28.20	24.5	1.00
FR1 n26(5)	Ant 1	21.50	21.00	30.50	21.00	25.0	0.70
FR1 n5 other pa	Ant 1	21.50	21.00	30.50	21.00	25.0	0.70
FR1 n66	Ant 2	17.50	20.00	28.00	17.50	25.0	0.70
FR1 n66 other pa	Ant 2	17.50	20.00	28.00	17.50	25.0	0.70
FR1 n66 other pa-1	Ant 2	17.50	20.00	28.00	17.50	23.0	1.00
FR1 n66	Ant 3	15.00	17.50	25.50	15.00	24.5	1.20
FR1 n66 other pa	Ant 3	15.00	17.50	25.50	15.00	25.0	0.70
FR1 n66 other pa-1	Ant 3	15.00	17.50	25.50	15.00	22.5	1.50
FR1 n66	Ant 4	30.50	17.50	17.50	17.50	24.0	1.50
FR1 n66 other pa	Ant 4	30.50	17.50	17.50	17.50	24.5	0.70
FR1 n66 other pa-1	Ant 4	30.50	17.50	17.50	17.50	22.5	1.50
FR1 n66	Ant 5	17.00	18.50	18.50	17.00	23.5	1.50
FR1 n66 other pa	Ant 5	17.00	18.50	18.50	17.00	23.5	1.50
FR1 n66 other pa-1	Ant 5	17.00	18.50	18.50	17.00	21.5	1.50
FR1 n71	Ant 0	33.80	28.10	28.10	27.40	24.0	1.00
FR1 n71	Ant 1	22.50	21.50	29.90	21.50	24.5	1.20
FR1 n41(38) PC3	Ant 2	16.50	17.00	24.50	16.50	25.0	0.70
FR1 n41 PC2	Ant 2	16.50	17.00	25.00	16.50	23.5	1.00
FR1 n41(38) PC3	Ant 3	16.50	18.50	26.40	16.50	25.0	0.70



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FR1 n41 PC2	Ant 3	16.50	18.50	25.80	16.50	23.5	1.50
FR1 n41(38) PC3	Ant 4	31.20	19.50	19.50	19.50	24.5	1.20
FR1 n41 PC2	Ant 4	31.20	19.50	19.50	19.50	22.5	1.50
FR1 n38 PC3	Ant 5	16.50	17.50	17.50	16.50	23.0	1.50
FR1 n41 PC3	Ant 5	17.00	18.00	18.00	17.00	23.5	1.50
FR1 n41 PC2	Ant 5	17.00	18.00	18.00	17.00	21.5	1.50
FR1 n48	Ant 6	14.00	19.50	31.60	14.00	24.0	1.00
FR1 n48	Ant 7	15.00	18.00	27.90	15.00	22.5	1.50
FR1 n48	Ant 8	16.00	18.00	18.00	16.00	24.0	1.50
FR1 n48	Ant 9	14.50	18.50	26.10	14.50	23.5	1.50
FR1 n77 Part27O PC3	Ant 6	15.00	18.00	25.20	15.00	24.0	1.00
FR1 n77 Part27O PC2	Ant 6	15.00	18.00	25.20	15.00	22.5	1.00
FR1 n77 Part27O PC3	Ant 7	15.50	17.00	26.20	15.50	22.5	1.50
FR1 n77 Part27O PC2	Ant 7	15.50	17.00	26.20	15.50	21.0	1.50
FR1 n77 Part27O PC3	Ant 8	12.50	16.00	16.00	12.50	24.0	1.50
FR1 n77 Part27O PC2	Ant 8	12.50	16.00	16.00	12.50	22.5	1.50
FR1 n77 Part27O PC3	Ant 9	15.50	18.50	25.10	15.50	23.5	1.50
FR1 n77 Part27O PC2	Ant 9	15.50	18.50	25.10	15.50	22.0	1.50
FR1 n77 Part27Q PC3	Ant 6	15.00	18.00	27.20	15.00	24.0	1.00
FR1 n77 Part27Q PC2	Ant 6	15.00	18.00	27.20	15.00	22.5	1.00
FR1 n77 Part27Q PC3	Ant 7	15.50	17.00	27.60	15.50	22.5	1.50
FR1 n77 Part27Q PC2	Ant 7	15.50	17.00	27.60	15.50	21.0	1.50
FR1 n77 Part27Q PC3	Ant 8	12.50	16.00	16.00	12.50	24.0	1.50
FR1 n77 Part27Q PC2	Ant 8	12.50	16.00	16.00	12.50	22.5	1.50
FR1 n77 Part27Q PC3	Ant 9	15.50	18.50	24.50	15.50	23.5	1.50
FR1 n77 Part27Q PC2	Ant 9	15.50	18.50	24.50	15.50	22.0	1.50
FR1 n78 Part27O PC3	Ant 6	13.00	17.00	26.80	13.00	25.0	1.00
FR1 n78 Part27O PC2	Ant 6	13.00	17.00	26.80	13.00	24.0	1.00
FR1 n78 Part27O PC3	Ant 7	14.50	17.00	24.60	14.50	23.5	1.50
FR1 n78 Part27O PC2	Ant 7	14.50	17.00	24.60	14.50	22.5	1.50
FR1 n78 Part27O PC3	Ant 8	12.50	16.50	16.50	12.50	24.5	1.50
FR1 n78 Part27O PC2	Ant 8	12.50	16.50	16.50	12.50	24.0	1.50
FR1 n78 Part27O PC3	Ant 9	15.00	18.00	24.90	15.00	24.5	1.50
FR1 n78 Part27O PC2	Ant 9	15.00	18.00	24.90	15.00	23.5	1.50
FR1 n78 Part27Q PC3	Ant 6	13.00	17.00	28.60	13.00	25.0	1.00
FR1 n78 Part27Q PC2	Ant 6	13.00	17.00	28.60	13.00	24.0	1.00
FR1 n78 Part27Q PC3	Ant 7	14.50	17.00	25.50	14.50	23.5	1.50
FR1 n78 Part27Q PC2	Ant 7	14.50	17.00	25.50	14.50	22.5	1.50
FR1 n78 Part27Q PC3	Ant 8	12.50	16.50	16.50	12.50	24.5	1.50
FR1 n78 Part27Q PC2	Ant 8	12.50	16.50	16.50	12.50	24.0	1.50
FR1 n78 Part27Q PC3	Ant 9	15.00	18.00	24.90	15.00	24.5	1.50
FR1 n78 Part27Q PC2	Ant 9	15.00	18.00	24.90	15.00	23.5	1.50

Band	Antenna	Head	Head DBS&non DBS	Head WWAN+DBS&non DBS	Bodyworn/Extremity	Bodyworn/Extremity DBS&non DBS	Bodyworn/Extremity WWAN+DBS&non DBS	Hotspot	Hotspot DBS&non DBS	Hotspot WWAN+DBS&non DBS	Pmax	Total Uncertainty dB (k=2)
WLAN2.4GHz	Ant 11	15.9	12.9	7.9	18.5	15.9	10.4	18.5	15.9	10.4	17.90	2.00
WLAN2.4GHz	Ant 5	16.5	13.5	8.5	18.7	15.5	10.0	18.7	15.5	10.0	17.50	2.00
WLAN2.4GHz	Ant 11+5	15.9,16.5	12.9,13.5	7.9,8.5	18.5,18.7	15.9,15.5	10.4,10	18.5,18.7	15.9,15.5	10.4,10	19.80	2.00
WLAN5GHz(B1)	Ant 6	12.1	9.1	4.1	16.5	13.1	8.1	16.5	13.1	8.1	15.60	2.00
WLAN5GHz(B1)	Ant 13	12.1	9.1	4.1	16.5	13.1	8.1	16.5	13.1	8.1	15.60	2.00
WLAN5GHz(B1)	Ant 6+13	12.1,12.1	9.1,9.1	4.1,4.1	16.5,16.5	13.1,13.1	8.1,8.1	16.5,16.5	13.1,13.1	8.1,8.1	18.60	2.00
WLAN5GHz(B2)	Ant 6	12.3	9.3	4.3	17.2	13.8	8.8				16.30	2.00
WLAN5GHz(B2)	Ant 13	12.3	9.3	4.3	17.2	13.8	8.8				16.30	2.00



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WLAN5GHz(B2)	Ant 6+13	12.3,12.3	9.3,9.3	4.3,4.3	17.2,17.2	13.8,13.8	8.8,8.8				19.30	2.00
WLAN5GHz(B3)	Ant 6	11.80	8.80	3.80	14.8	12.3	7.3				16.30	2.00
WLAN5GHz(B3)	Ant 13	11.80	8.80	3.80	14.8	12.3	7.3				16.30	2.00
WLAN5GHz(B3)	Ant 6+13	11.8,11.8	8.8,8.8	3.8,3.8	14.8,14.8	12.3,12.3	7.3,7.3				19.30	2.00
WLAN5GHz(B4)	Ant 6	12.8	9.8	4.8	15.3	12.3	7.3	15.30	12.30	7.30	17.80	2.00
WLAN5GHz(B4)	Ant 13	12.8	9.8	4.8	15.3	12.3	7.3	15.30	12.30	7.30	17.80	2.00
WLAN5GHz(B4)	Ant 6+13	12.8,12.8	9.8,9.8	4.8,4.8	15.3,15.3	12.3,12.3	7.3,7.3	15.3,15.3	12.3,12.3	7.3,7.3	20.80	2.00
WLAN6GHz(B5)_6CD	Ant 6	12.4	9.4	4.4	11.4	11.4	8.4				15.40	2.00
WLAN6GHz(B5)_6CD	Ant 13	12.4	9.4	4.4	11.4	11.4	8.4				15.40	2.00
WLAN6GHz(B5)_6CD	Ant 6+13	12.4,12.4	9.4,9.4	4.4,4.4	11.4,11.4	11.4,11.4	8.4,8.4				18.40	2.00
WLAN6GHz(B7)_6CD	Ant 6	12.4	11.9	6.4	13.4	13.4	9.4				15.40	2.00
WLAN6GHz(B7)_6CD	Ant 13	12.4	11.9	6.4	13.4	13.4	9.4				15.40	2.00
WLAN6GHz(B7)_6CD	Ant 6+13	12.4,12.4	11.9,11.9	6.4,6.4	13.4,13.4	13.4,13.4	9.4,9.4				18.40	2.00
WLAN6GHz(B5)_VLP	Ant 6	12.4	9.4	4.4	11.4	11.4	8.4				10.90	2.00
WLAN6GHz(B5)_VLP	Ant 13	12.4	9.4	4.4	11.4	11.4	8.4				10.90	2.00
WLAN6GHz(B5)_VLP	Ant 6+13	12.4,12.4	9.4,9.4	4.4,4.4	11.4,11.4	11.4,11.4	8.4,8.4				13.90	2.00
WLAN6GHz(B7)_VLP	Ant 6	12.4	11.9	6.4	13.4	13.4	9.4				10.40	2.00
WLAN6GHz(B7)_VLP	Ant 13	12.4	11.9	6.4	13.4	13.4	9.4				10.40	2.00
WLAN6GHz(B7)_VLP	Ant 6+13	12.4,12.4	11.9,11.9	6.4,6.4	13.4,13.4	13.4,13.4	9.4,9.4				13.40	2.00
WLAN6GHz(B6)_VLP	Ant 6	10.9	10.9	5.9	10.9	10.9	10.9				10.90	2.00
WLAN6GHz(B6)_VLP	Ant 13	10.9	10.9	5.9	10.9	10.9	10.9				10.90	2.00
WLAN6GHz(B6)_VLP	Ant 6+13	10.9,10.9	10.9,10.9	5.9,5.9	10.9,10.9	10.9,10.9	10.9,10.9				13.90	2.00
WLAN6GHz(B8)_VLP	Ant 6	10.9	10.9	6.4	10.9	10.9	10.9				10.90	2.00
WLAN6GHz(B8)_VLP	Ant 13	10.9	10.9	6.4	10.9	10.9	10.9				10.90	2.00
WLAN6GHz(B8)_VLP	Ant 6+13	10.9,10.9	10.9,10.9	6.4,6.4	10.9,10.9	10.9,10.9	10.9,10.9				13.90	2.00

Note: 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + Total uncertainty.

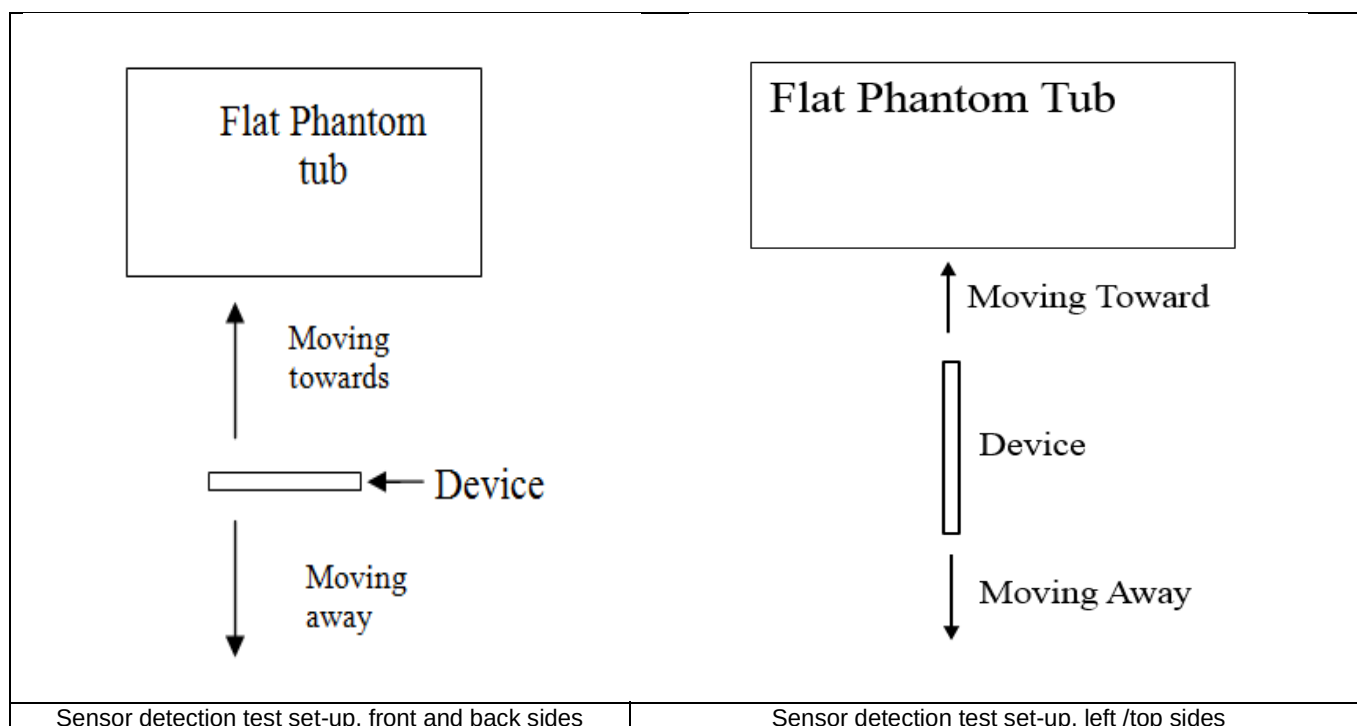
2) All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD&WLAN).

3) The max allowed output power is the P_{limit} + Total uncertainty, and if P_{limit} is higher than P_{max}, the device output power will be P_{max} 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 (3980MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top left corner of the top ends of the phone are utilized to determine when the device comes in proximity of the user's body or finger or hand at the front or back or left or top side of the device. There is no need to do sensor coverage testing for the proximity sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the proximity sensor entirely covers the antenna.
3. The sensors can use to detect the proximity of the user's body or handheld states at the front or back or top or left side of the device use a detection threshold distance. When front/back/top/ left edge of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
4. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed.



<Sensor for Ant 1&7&2&9&3&6>

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	16	16	16	16	16	16	16	16

7. RF Exposure Limits

7.1 Uncontrolled Environment

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

7.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

7.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310. The unit of power density evaluation is W/m² or mW/cm².

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

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

Note: 1.0 mW/cm² is 10 W/m²

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:

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

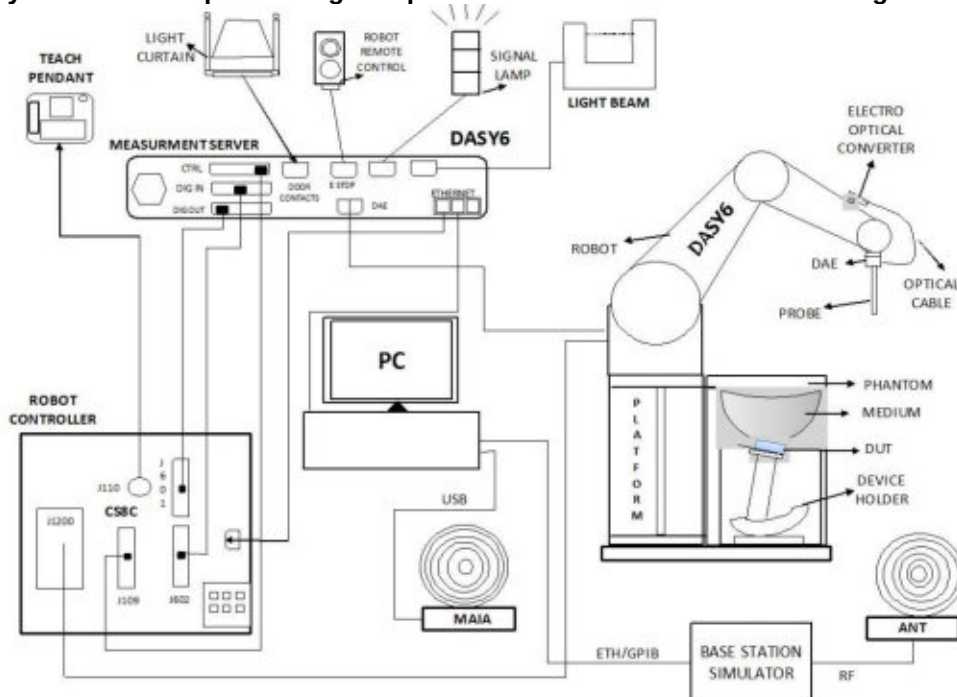
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

9. System Description and Setup

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 or Win10 and the DASY5 or DASY6/8 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.

Note: 1. DASY6 software used: DASY6 mmWave V3.2.0.1840 and older generations and used the developed Plane-to-Plane Phase Reconstruction (PTP-PR) Algorithm which was used in PD 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	Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	Mar. 12, 2025	Mar. 11, 2026
SPEAG	835MHz System Validation Kit	D835V2	4d298	Jan. 26, 2024	Jan. 24, 2026
SPEAG	1750MHz System Validation Kit	D1750V2	1090	Mar. 12, 2025	Mar. 11, 2026
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	Jun. 30, 2025	Jun. 29, 2026
SPEAG	2450MHz System Validation Kit	D2450V2	1095	Feb. 08, 2024	Feb. 06, 2026
SPEAG	2600MHz System Validation Kit	D2600V2	1112	Dec. 18, 2023	Dec. 15, 2026
SPEAG	3500MHz System Validation Kit	D3500V2	1037	Nov. 20, 2023	Nov. 17, 2026
SPEAG	3700MHz System Validation Kit	D3700V2	1008	Nov. 20, 2023	Nov. 17, 2026
SPEAG	3900MHz System Validation Kit	D3900V2	1048	Mar. 09, 2023	Mar. 06, 2026
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	Sep. 17, 2025	Sep. 16, 2026
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1026	Jan. 28, 2025	Jan. 27, 2026
SPEAG	5G Verification Source	10GHz	2002	Feb. 20, 2025	Feb. 19, 2026
SPEAG	Data Acquisition Electronics	DAE4	1358	Jul. 15, 2025	Jul. 14, 2026
SPEAG	Data Acquisition Electronics	DAE4	1691	Jun. 04, 2025	Jun. 03, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7576	Nov. 04, 2025	Nov. 03, 2026
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9441	Nov. 17, 2025	Nov. 16, 2026
SPEAG	mmWave Phantom	mmWave	1065	NCR	NCR
SPEAG	SAM Twin Phantom	SAM Twin	TP-2024	NCR	NCR
Beichuang	Thermo-Hygrometer	HTC-1	1959634	May 27, 2025	May 26, 2026
Beichuang	Thermo-Hygrometer	HTC-1	1959630	May 27, 2025	May 26, 2026
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Rohde & Schwarz	Signal Generator	SMR40	100455	Dec. 26, 2025	Dec. 25, 2026
Keysight	Preamplifier	83017A	MY57280106	Apr. 18, 2025	Apr. 17, 2026
Anritsu	Radio Communication Analyzer	MT8820C	6201563900	Jul. 02, 2025	Jul. 01, 2026
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	Jul. 02, 2025	Jul. 01, 2026
SPEAG	Dielectric Probe Kit	DAK-3.5	1071	Feb. 24, 2025	Feb. 23, 2026
Anritsu	Vector Signal Generator	MG3710A	6201682672	Dec. 26, 2025	Dec. 25, 2026
Rohde & Schwarz	Power Meter	NRVD	102081	Jul. 02, 2025	Jul. 01, 2026
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	Jul. 02, 2025	Jul. 01, 2026
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	Jul. 02, 2025	Jul. 01, 2026
Rohde & Schwarz	Power Sensor	NRP50S	101385	Oct. 14, 2025	Oct. 13, 2026
R&S	BLUETOOTH TESTER	CBT	101246	Jul. 03, 2025	Jul. 02, 2026
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	Oct. 11, 2025	Oct. 10, 2026
TES	DIGITAC THERMOMETER	TYPE-K	200505600	Jul. 05, 2025	Jul. 04, 2026
ARRA	Power Divider	A3200-2	N/A	Note 1	
mini-circuits	amplifier	ZVE-3W-83+	162601250	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	
ET Industries	Data Directional Coupler	C-058-10	N/A	Note 1	
ATM	Dual Directional Coupler	C122H-10	P610410z-02	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.

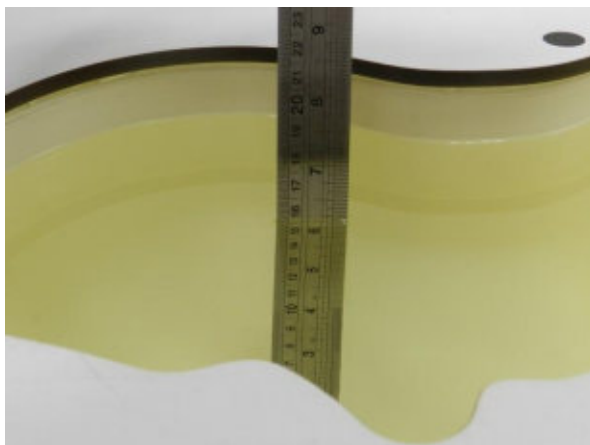


Fig 11.1 Photo of Liquid Height for Head SAR



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)	Liquid Temp (°C)	Conductivity (σ)	Permittivity (εr)	Conductivity Target (σ)	Permittivity Target (εr)	Delta (σ) (%)	Delta (εr) (%)	Limit (%)	Date
750	22.7	0.887	43.0	0.89	41.9	-0.34	2.63	±5.0	2026-01-01
750	22.6	0.891	43.0	0.89	41.9	0.11	2.63	±5.0	2026-01-02
835	22.9	0.913	42.5	0.9	41.5	1.44	2.41	±5.0	2026-01-03
835	22.6	0.92	42.5	0.9	41.5	2.22	2.41	±5.0	2026-01-04
1750	22.8	1.37	40.7	1.37	40.1	0.00	1.50	±5.0	2026-01-05
1750	22.7	1.37	40.8	1.37	40.1	0.00	1.75	±5.0	2026-01-06
1900	22.8	1.45	39.1	1.4	40.0	3.57	-2.25	±5.0	2026-01-06
1900	22.6	1.44	39.2	1.4	40.0	2.86	-2.00	±5.0	2026-01-07
2450	22.9	1.76	39.2	1.8	39.2	-2.22	0.00	±5.0	2026-01-16
2600	22.8	1.92	38.8	1.96	39.0	-2.04	-0.51	±5.0	2026-01-08
2600	22.9	1.91	38.8	1.96	39.0	-2.55	-0.51	±5.0	2026-01-09
3500	22.6	2.95	37.7	2.91	37.9	1.37	-0.53	±5.0	2026-01-10
3500	22.8	2.97	37.7	2.91	37.9	2.06	-0.53	±5.0	2026-01-11
3700	22.7	3.18	37.5	3.12	37.7	1.92	-0.53	±5.0	2026-01-12
3700	22.9	3.19	37.4	3.12	37.7	2.24	-0.80	±5.0	2026-01-13
3900	22.6	3.4	37.4	3.33	37.51	2.10	-0.29	±5.0	2026-01-14
3900	22.8	3.38	37.3	3.33	37.51	1.50	-0.56	±5.0	2026-01-15
5250	22.6	4.71	36.3	4.71	35.95	0.00	0.97	±5.0	2026-01-17
5600	22.9	4.98	36.0	5.07	35.5	-1.78	1.41	±5.0	2026-01-17
5800	22.7	5.13	35.5	5.27	35.3	-2.66	0.57	±5.0	2026-01-18
6500	22.8	6.10	34.1	6.07	34.50	0.49	-1.16	±5.0	2026-01-18

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)	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 (%)
2026-01-01	750	50.00	D750V3 - 1087	EX3DV4 - SN7576	DAE4 Sn1358	0.433	8.680	8.660	-0.23	0.288	5.610	5.760	2.67
2026-01-02	750	50.00	D750V3 - 1087	EX3DV4 - SN7576	DAE4 Sn1358	0.432	8.680	8.640	-0.46	0.288	5.610	5.760	2.67
2026-01-03	835	50.00	D835V2 - 4d298	EX3DV4 - SN7576	DAE4 Sn1358	0.513	9.890	10.260	3.74	0.339	6.450	6.780	5.12
2026-01-04	835	50.00	D835V2 - 4d298	EX3DV4 - SN7576	DAE4 Sn1358	0.517	9.890	10.340	4.55	0.342	6.450	6.840	6.05
2026-01-05	1750	50.00	D1750V2 - 1090	EX3DV4 - SN7576	DAE4 Sn1358	1.970	36.600	39.400	7.65	1.060	19.500	21.200	8.72
2026-01-06	1750	50.00	D1750V2 - 1090	EX3DV4 - SN7576	DAE4 Sn1358	1.940	36.600	38.800	6.01	1.020	19.500	20.400	4.62
2026-01-06	1900	50.00	D1900V2 - 5d170	EX3DV4 - SN7576	DAE4 Sn1358	2.120	39.600	42.400	7.07	1.130	20.900	22.600	8.13
2026-01-07	1900	50.00	D1900V2 - 5d170	EX3DV4 - SN7576	DAE4 Sn1358	2.130	39.600	42.600	7.58	1.130	20.900	22.600	8.13
2026-01-16	2450	50.00	D2450V2 - 1095	EX3DV4 - SN7576	DAE4 Sn1358	2.690	52.600	53.800	2.28	1.280	24.700	25.600	3.64
2026-01-08	2600	50.00	D2600V2 - 1112	EX3DV4 - SN7576	DAE4 Sn1358	2.750	55.100	55.000	-0.18	1.270	24.800	25.400	2.42
2026-01-09	2600	50.00	D2600V2 - 1112	EX3DV4 - SN7576	DAE4 Sn1358	2.620	55.100	52.400	-4.90	1.210	24.800	24.200	-2.42
2026-01-10	3500	50.00	D3500V2 - 1037	EX3DV4 - SN7576	DAE4 Sn1358	3.460	65.400	69.200	5.81	1.340	24.700	26.800	8.50
2026-01-11	3500	50.00	D3500V2 - 1037	EX3DV4 - SN7576	DAE4 Sn1358	3.480	65.400	69.600	6.42	1.350	24.700	27.000	9.31
2026-01-12	3700	50.00	D3700V2 - 1008	EX3DV4 - SN7576	DAE4 Sn1358	3.490	67.200	69.800	3.87	1.330	24.400	26.600	9.02
2026-01-13	3700	50.00	D3700V2 - 1008	EX3DV4 - SN7576	DAE4 Sn1358	3.500	67.200	70.000	4.17	1.330	24.400	26.600	9.02
2026-01-14	3900	50.00	D3900V2 - 1048	EX3DV4 - SN7576	DAE4 Sn1358	3.500	69.100	70.000	1.30	1.260	24.100	25.200	4.56
2026-01-15	3900	50.00	D3900V2 - 1048	EX3DV4 - SN7576	DAE4 Sn1358	3.480	69.100	69.600	0.72	1.250	24.100	25.000	3.73
2026-01-17	5250	50.00	D5GHzV2 - 1113	EX3DV4 - SN7576	DAE4 Sn1358	4.050	78.100	81.000	3.71	1.180	22.400	23.600	5.36
2026-01-17	5600	50.00	D5GHzV2 - 1113	EX3DV4 - SN7576	DAE4 Sn1358	3.830	80.000	76.600	-4.25	1.130	23.000	22.600	-1.74
2026-01-18	5800	50.00	D5GHzV2 - 1113	EX3DV4 - SN7576	DAE4 Sn1358	3.940	77.900	78.800	1.16	1.140	22.300	22.800	2.24
2026-01-18	6500	50	D6.5GHzV2-1026	EX3DV4 - SN7576	DAE4 Sn1358	14.9	296.000	298	0.68	2.76	54.800	55.2	0.73

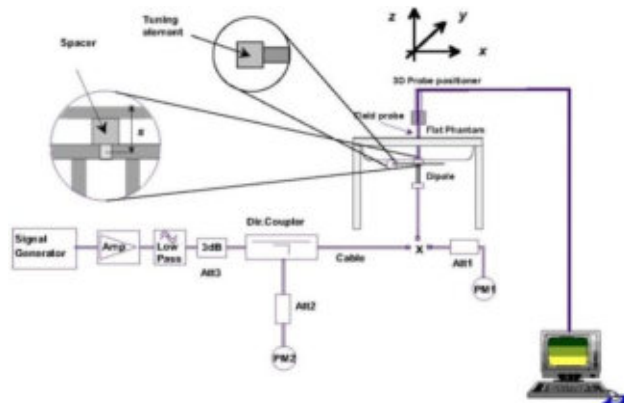


Fig 11.3.1 System Performance Check Setup



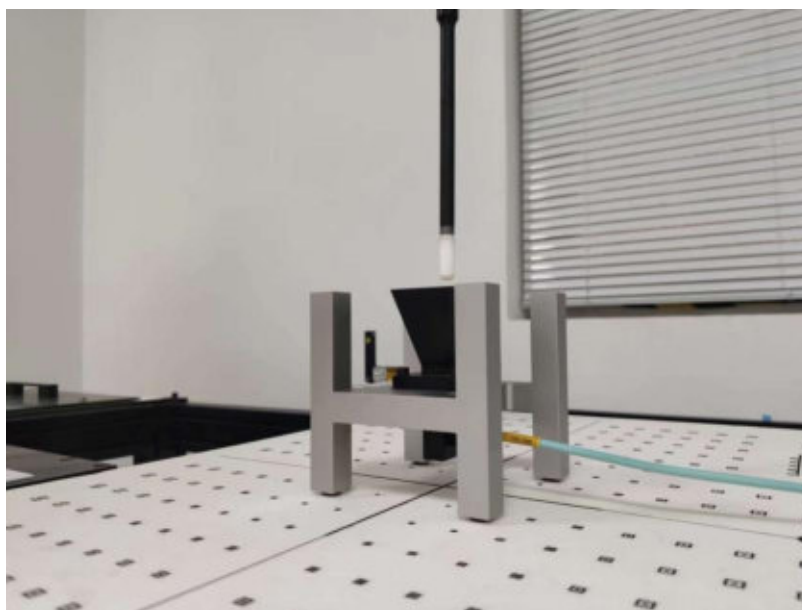
Fig 11.3.2 Setup Photo

12.4 PD System Verification Results

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

Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Input Power (mW)	Measured psPDn+ 4 cm ² (W/m ²)	Normalized ⁽¹⁾ psPDn+ 4 cm ² (W/m ²)	Targeted psPDn+ 4 cm ² (W/m ²)	Deviation (dB)	Measured psPDtot+ 4 cm ² (W/m ²)	Normalized ⁽¹⁾ psPDtot+ 4 cm ² (W/m ²)	Targeted psPDtot+ 4 cm ² (W/m ²)	Deviation (dB)	Measured psPDmod+ 4 cm ² (W/m ²)	Normalized ⁽¹⁾ psPDmod+ 4 cm ² (W/m ²)	Targeted psPDmod+ 4 cm ² (W/m ²)	Deviation (dB)	Test date
10	10GHz_2002	9441	1691	10	100	95	150.5	166	-0.43	96.2	152.4	167	-0.40	97.1	153.9	172	-0.48	2026/1/19

Note: (1) means the measured PD was normalized to Prad power which can be referred to DASY Calibration Certificate in appendix C.



System Verification 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.

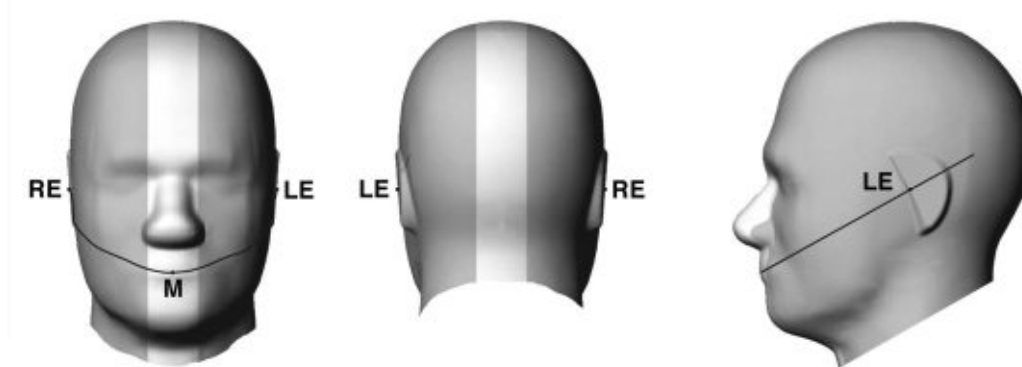


Fig 12.1.1 Front, back, and side views of SAM twin phantom

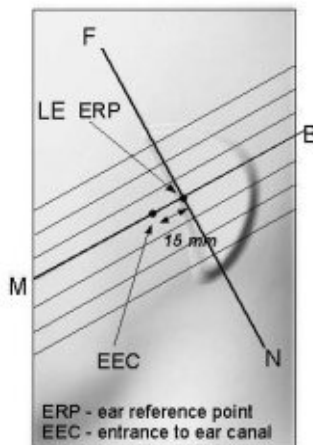


Fig 12.1.2 Close-up side view of phantom showing the ear region.

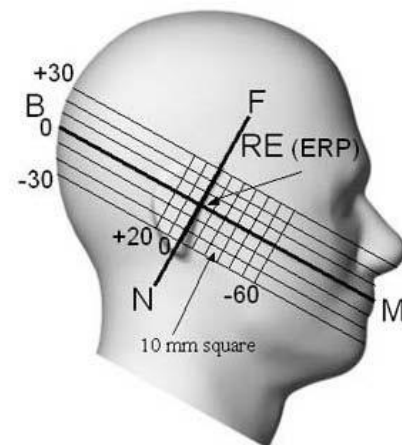


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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 handset. 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.

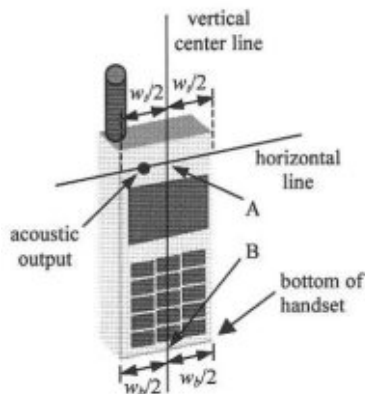


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case"

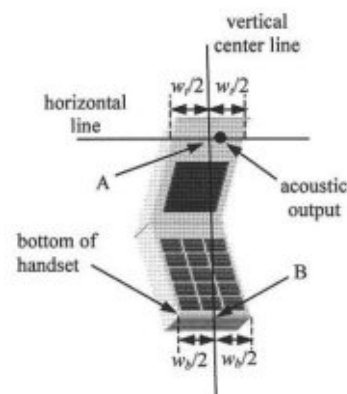


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

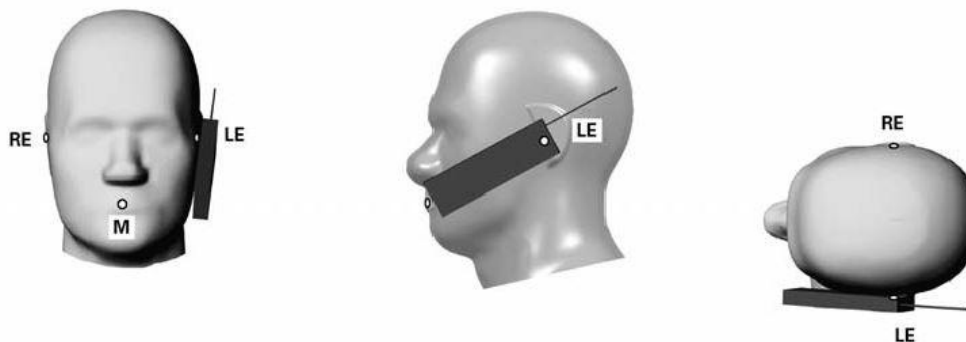


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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

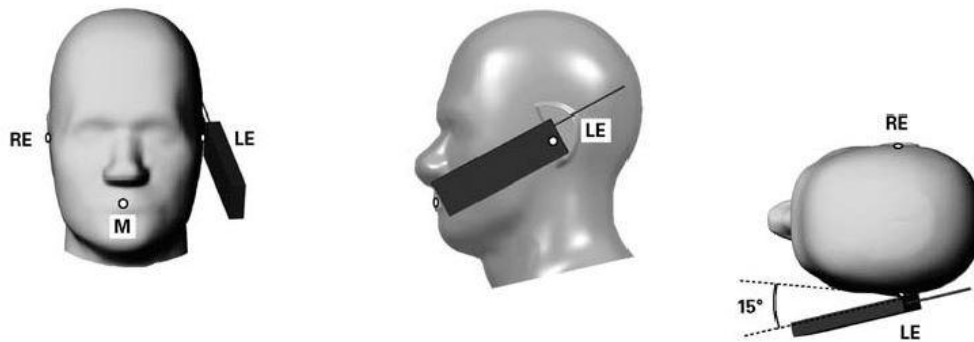


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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 handset attached to the handset.

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

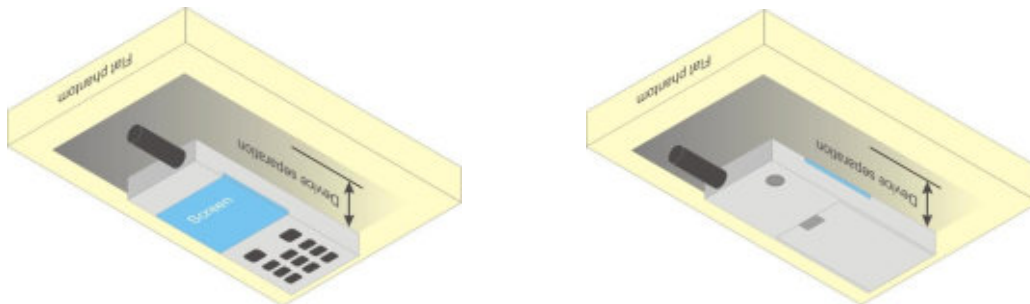


Fig 12.4 Body Worn Position

13.5 Product Specific 10g SAR Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that 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 ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

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

13.7 Miscellaneous Testing Considerations

- Evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020.
- Per procedures of KDB Pubs. 447498 and 248227, and applicable product-specific procedures among KDB Pubs. 648474 (handsets/phablets).
- Where supported by the test system, also report estimated absorbed (epithelial) power density (for reference purposes only, not specifically for compliance) and estimated incident PD, derived from measured SAR.
- In addition, for the highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane)
- Adjust measured results per amount that measurement uncertainty exceeds 30 % (see e.g. IEC 62479:2010)

14. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

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

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_o/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ 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 $\beta_o/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. Note 4: For subtest 2 the β_o/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.							

Setup Configuration

HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting * :
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - 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
 - Set Cell Power = -86 dBm
 - Set Channel Type = 12.2k + HSPA
 - Set UE Target Power
 - Power Ctrl Mode= Alternating bits
 - Set and observe the E-TFCI
 - Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- 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 referred to the Setup Configuration below
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set RMC 12.2Kbps + HSDPA mode.
 - ii. Set Cell Power = -25 dBm
 - iii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
 - iv. Select HSDPA Uplink Parameters
 - v. Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - a). Subtest 1: $\beta_c/\beta_d=2/15$
 - b). Subtest 2: $\beta_c/\beta_d=12/15$
 - c). Subtest 3: $\beta_c/\beta_d=15/8$
 - d). Subtest 4: $\beta_c/\beta_d=15/4$
 - vi. Set Delta ACK, Delta NACK and Delta CQI = 8
 - vii. Set Ack-Nack Repetition Factor to 3
 - viii. Set CQI Feedback Cycle (k) to 4 ms
 - ix. Set CQI Repetition Factor to 2
 - x. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

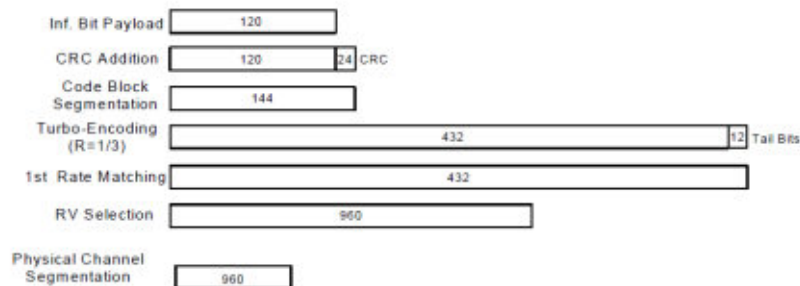
The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

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

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{DP})	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:

1. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
2. The RF path losses were compensated into the measurements.
3. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2E:HSPA+:UL with 16QAM
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.4, quoted from the TS 34.121-1 s5.2E
 - iii. Set Channel Params
 - iv. Set Cell Power = -86 dBm
 - v. Set Channel Type = HSPA
 - vi. Set UE Target Power =21 dBm
 - vii. Power Ctrl Mode= All Up Bits
 - viii. Set Manual Uplink DPCH Bc/Bd = Manual
 - ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
 - x. Set HSPA Conn DL Channel Levels
 - xi. Set HS-SCCH Configs
 - xii. Set RB Test Mode Setup
 - xiii. Set Common HSUPA Parameters
 - xiv. Set Serving Grant
 - xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
4. 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.

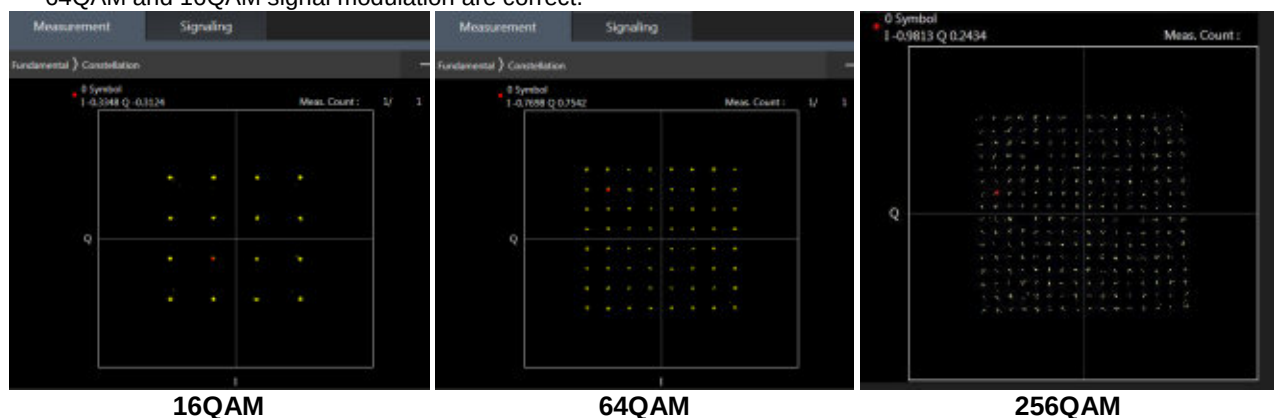
Setup Configuration
<WCDMA Conducted Power>
General Note:

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 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B2/4/5/17/38 SAR test was covered by B25/66/26/12/41; 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.



<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.

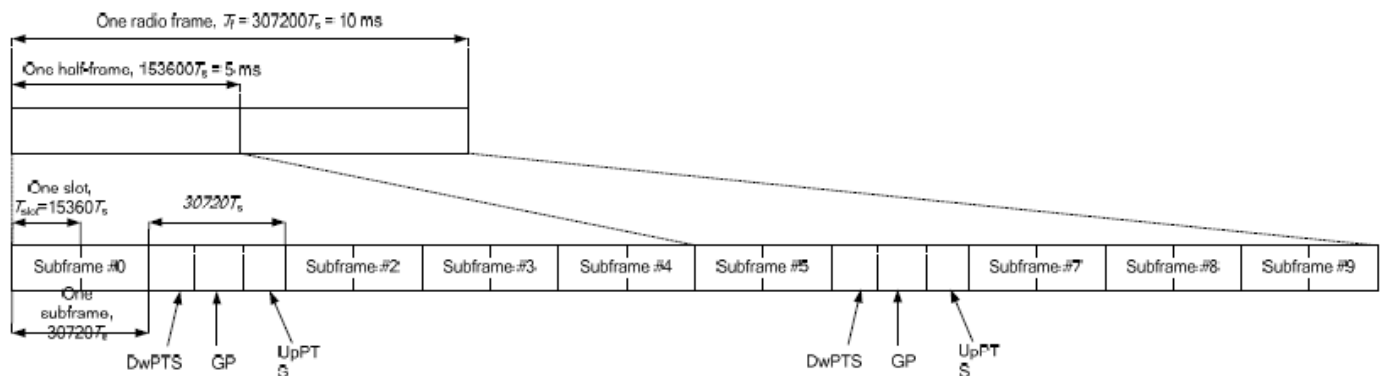


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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:

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

<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	ANT2/5/3/4
CA_38C	ANT2/5/3/4

<Intra-band>
General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B7/38 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iii. Additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

<Inter-band uplink carrier aggregation consideration>

LTE Uplink CA	2CC Uplink Carrier Aggregation	
Inter-band	Antenna Tx	Antenna Tx
CA_4A-7A	B4:ANT3/5/2/4	B7:ANT2/5/3/4
CA_4A-5A	B4:ANT3/5/2/4	B5:ANT0/1
CA_2A-4A	B2:ANT3/5/2/4	B4:ANT3/5/2/4
CA_2A-5A	B2:ANT2/5/3/4	B5:ANT0/1
CA_2A-7A	B2:ANT3/5/2/4	B7:ANT2/5/3/4

General Note:

1. The single carrier of inter band CA uplink power level is the same as Non-CA standalone LTE power level.
2. The product implements MediaTek TA-SAR 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 $\leq 6\text{GHz}$). 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.
3. For LTE inter-band CA mode, MediaTek TA-SAR algorithm in WWAN adds directly the time-averaged RF exposure between two LTE bands. TA-SAR algorithm controls the total RF exposure base on LTE inter CA bands to not exceed FCC limit. In Part 1 Report, simultaneous transmission compliance was evaluated with other Radios (WLAN or BT) using standalone LTE SAR mode.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n7/n12/n66/n38/n41/n77/n78 is NSA mode.
2. 5G NR n2/n5/n7/n12/n25/n26/n66/n71/n38/n41/n48/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, the simultaneous transmission analysis is used standalone SAR at total power level to show compliance.
5. 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.
6. 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.
7. 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.
8. 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.
9. For 5G NR n41/n77/n78 HPUE, 5G NR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands, using FTM to perform SAR with default 100% transmission.
10. For NR inter-band CA mode, MediaTek TA-SAR algorithm in WWAN adds directly the time-averaged RF exposure between two NR bands. TA-SAR algorithm controls the total RF exposure base on NR 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.

<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_26A_n78A	B26:ANT0/1	n78:ANT6/7/8/9
DC_2A_n38A	B2:ANT3/5/2/4	n38:ANT2/5/3/4
DC_2A_n41A	B2:ANT3/5/2/4	n41:ANT2/5/3/4
DC_2A_n66A	B2:ANT3/5/2/4	n66:ANT2/5/3/4
DC_2A_n77A	B2:ANT2/5/3/4	n77:ANT6/7/8/9
DC_2A_n78A	B2:ANT2/5/3/4	n78:ANT6/7/8/9
DC_2A_n7A	B2:ANT3/5/2/4	n7:ANT2/5/3/4
DC_38A_n78A	B38:ANT2/3/4/5	n78:ANT6/7/8/9
DC_41A_n78A	B41:ANT2/3/4/5	n78:ANT6/7/8/9
DC_4A_n2A	B4:ANT2/5/3/4	n2:ANT3/5/2/4
DC_4A_n38A	B4:ANT3/5/2/4	n38:ANT2/5/3/4
DC_4A_n41A	B4:ANT3/5/2/4	n41:ANT2/5/3/4
DC_4A_n78A	B4:ANT2/3/4/5	n78:ANT6/7/8/9
DC_4A_n7A	B4:ANT3/5/2/4	n7:ANT2/5/3/4
DC_5A_n38A	B5:ANT0/1	n38:ANT2/3/4/5
DC_5A_n41A	B5:ANT0/1	n41:ANT2/3/4/5
DC_5A_n66A	B5:ANT0/1	n66:ANT2/3/4/5
DC_5A_n78A	B5:ANT0/1	n78:ANT6/7/8/9
DC_5A_n7A	B5:ANT0/1	n7:ANT2/3/4/5
DC_66A_n2A	B66:ANT2/5/3/4	n2:ANT3/5/2/4
DC_66A_n38A	B66:ANT3/5/2/4	n38:ANT2/5/3/4
DC_66A_n41A	B66:ANT3/5/2/4	n41:ANT2/5/3/4
DC_66A_n66A	B66:ANT3/5/2/4	n66:ANT2/5/3/4
DC_66A_n78A	B66:ANT2/3/4/5	n78:ANT6/7/8/9
DC_66A_n7A	B66:ANT3/5/2/4	n7:ANT2/5/3/4



DC_71A_n77A	B71:ANT0/1	n77:ANT6/7/8/9
DC_71A_n78A	B71:ANT0/1	n78:ANT6/7/8/9
DC_7A_n2A	B7:ANT2/5/3/4	n2:ANT3/5/2/4
DC_7A_n5A	B7:ANT2/3/4/5	n5:ANT0/1
DC_7A_n66A	B7:ANT2/5/3/4	n66:ANT3/5/2/4
DC_7A_n78A	B7:ANT2/3/4/5	n78:ANT6/7/8/9

Inter-Band CA Configuration:

NR Uplink CA	2CC Uplink Carrier Aggregation	
Inter-band	Antenna Tx	Antenna Tx
CA_n7A-n78A	n7:ANT2/5/3/4	n78:ANT6/7/8/9

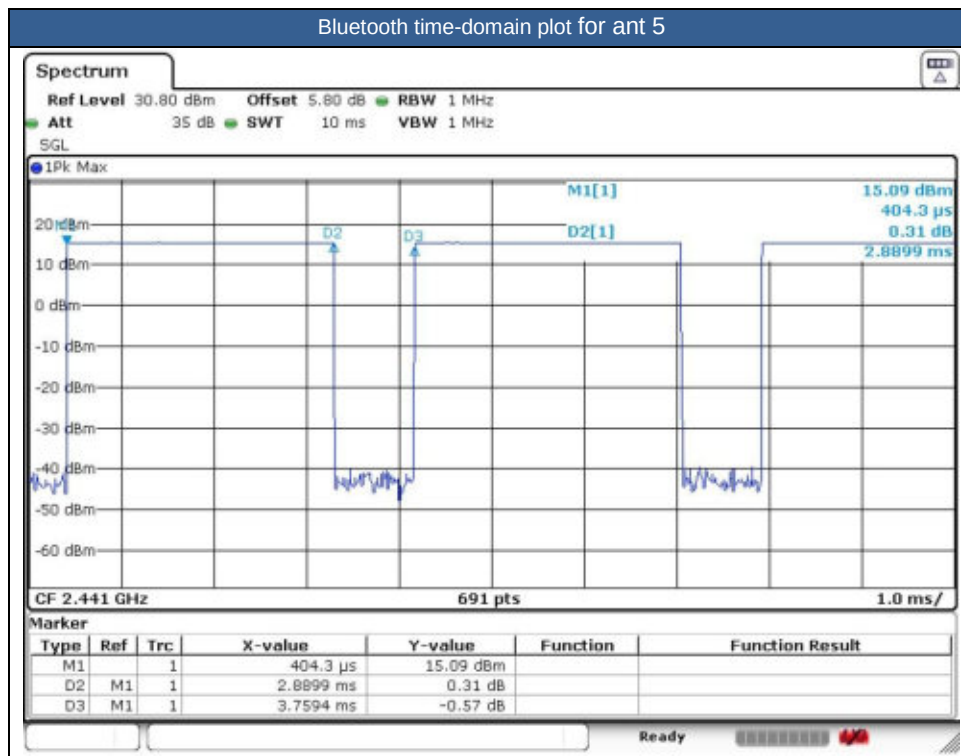
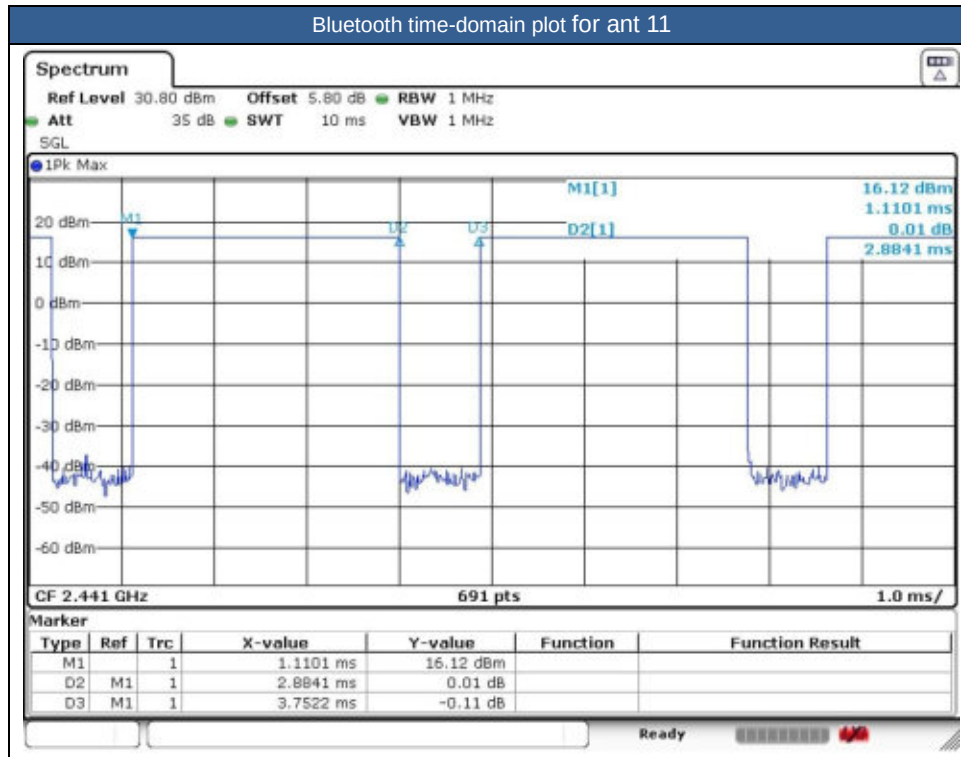
<WLAN Conducted Power>**General Note:**

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

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.86% for ant 11 and 76.87% for ant 5 as following figure, Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.





15. Antenna Location

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

16. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
 - d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - e. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - f. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements proximity 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 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 (for handheld on state, the maximum full power means reduced 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 LTE Band 5/13/26, 5GNR n12/n26/n5 and WLAN 6GHz therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz/6GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
6. 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).
7. LTE B2/4/66 and 5GNR n2/66 at ant2/3/4/5 and LTE B5 and 5GNR n5 at ant0/1 support different PAs for some antennas, and some LTE/NR bands support Other PA only under ENDC. 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.
8. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
9. 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.
10. For WLAN 6GHz doesn't support wireless router capability.



11. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors.
12. Per October 2020 TCB Workshop Interim procedures, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02.
13. For testing the WLAN 6GHz of this DUT, the selection of test channels was based on FCC guidance, with five channels selected across the entire WLAN 6GHz Bands. For the U-NII-5/U-NII-7 band supporting Standard AP mode and VLP mode, the higher output mode was measured among the selected channels.
14. Per October 2022 TCB Workshop, IPD and SAR test frequencies for 5.85-7.125 GHz portable devices, continue with adapt and apply conducted power-based channel picks and test reduction procedures of KDB 248227 (v02r02), also in case of 320 MHz (pre-802.11be).
15. Absorbed power density (APD) using a 4cm^2 averaging area is reported based on SAR measurements.
16. For testing the WLAN 6GHz of this DUT, the selection of test channels was based on FCC guidance, with five channels selected across the entire WLAN 6GHz Bands.
17. This device supports UAC (Unified Antenna Control) technology for LTE B2/4/5/7/25/26/66/71/38/41/42/48 and 5G NR n2/5/7/26/25/66/71/38/41/77/78, which is an antenna tuner technology developed by MTK that can perform adaptive tuning based on the base station network. If there is only one code, then perform full SAR testing. If there are multiple codes or codes that are not supported, after verification all codes in a same position, so the worst-case code was chosen to perform full SAR testing to ensure the RF exposure is compliance and other codes verify the worst case.

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 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B2/4/5/17/38 SAR test was covered by B25/66/26/12/41; 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/n71/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. Per KDB 248227 D01v02r02, when SAR measurement is required for at least one of the two U-NII bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is < 1.2 W/kg, SAR is not required for the 160 MHz channel.
4. 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.
5. 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. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
7. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. Further simplification chose the worse SAR value and the worst scaling factor from each transmit chain perform reported SAR calculation conservatively. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.

Power Density General Notes:

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements.
3. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
4. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
6. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
7. Per April 2021 TCB Workshop and KDB 388624 D02v18r08, For the highest SAR test configurations also measure incident PD (total) using power-density reconstruction method in 2 mm closest measurement plane.
8. Per October 2020 TCB Workshop, PTP-PR algorithm was used during psPD measurement and calculations.
9. Since this device is considered a phablet and there is no different PD limit on different exposure conditions, therefore select highest phablet SAR at 0 mm test distance and configurations evaluate power density. Since there is no different PD limit on different exposure conditions, therefore the PD test was performed of a 2mm separation between Probe sensor and EUT surface to cover Head exposure conditions (Front) at head power level and other exposure conditions at body power level of Phone respectively.
10. The measurement procedure consists of measuring the PDinc at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPDn fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

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

ECI status description:

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

This WWAN/WLAN bands enabled with MediaTek TA-SAR 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	Main PA	Other PA	Other PA-1	Trigger conditions
Head SAR	ECI1	ECI1-1	ECI1-2	Earpiece On
Hotspot SAR	ECI5	ECI5-1	ECI5-2	Hotspot On
Body worn SAR	ECI4	ECI4-1	ECI4-2	Sensor Off/ receiver off
Body worn/Extremity SAR	ECI3	ECI3-1	ECI3-2	Sensor On



16.1 Head SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 4 Tx slots	Right Cheek	0mm	Ant 0	ECI1	Main PA	189	836.4	-	26.65	28.00	1.365	0.03	0.233	0.318
	GSM850	GPRS 4 Tx slots	Right Tilted	0mm	Ant 0	ECI1	Main PA	189	836.4	-	26.65	28.00	1.365	-0.11	0.124	0.169
	GSM850	GPRS 4 Tx slots	Left Cheek	0mm	Ant 0	ECI1	Main PA	189	836.4	-	26.65	28.00	1.365	-0.12	0.175	0.239
	GSM850	GPRS 4 Tx slots	Left Tilted	0mm	Ant 0	ECI1	Main PA	189	836.4	-	26.65	28.00	1.365	0.07	0.075	0.102
	GSM850	GPRS 4 Tx slots	Right Cheek	0mm	Ant 1	ECI1	Main PA	189	836.4	-	22.62	24.50	1.542	0.18	0.418	0.645
	GSM850	GPRS 4 Tx slots	Right Tilted	0mm	Ant 1	ECI1	Main PA	189	836.4	-	22.62	24.50	1.542	-0.04	0.075	0.116
01	GSM850	GPRS 4 Tx slots	Left Cheek	0mm	Ant 1	ECI1	Main PA	189	836.4	-	22.62	24.50	1.542	-0.01	0.652	1.005
	GSM850	GPRS 4 Tx slots	Left Cheek	0mm	Ant 1	ECI1	Main PA	128	824.2	-	22.57	24.50	1.56	-0.02	0.569	0.888
	GSM850	GPRS 4 Tx slots	Left Cheek	0mm	Ant 1	ECI1	Main PA	251	848.8	-	22.59	24.50	1.552	-0.17	0.636	0.987
	GSM850	GPRS 4 Tx slots	Left Tilted	0mm	Ant 1	ECI1	Main PA	189	836.4	-	22.62	24.50	1.542	0.15	0.091	0.140
	GSM1900	GPRS 4 Tx slots	Right Cheek	0mm	Ant 2	ECI1	Main PA	661	1880	-	20.71	21.50	1.199	0.19	0.791	0.948
	GSM1900	GPRS 4 Tx slots	Right Cheek	0mm	Ant 2	ECI1	Main PA	512	1850.2	-	20.32	21.50	1.312	0.14	0.749	0.983
02	GSM1900	GPRS 4 Tx slots	Right Cheek	0mm	Ant 2	ECI1	Main PA	810	1909.8	-	20.57	21.50	1.239	0.01	0.850	1.053
	GSM1900	GPRS 4 Tx slots	Right Tilted	0mm	Ant 2	ECI1	Main PA	661	1880	-	20.71	21.50	1.199	-0.03	0.280	0.336
	GSM1900	GPRS 4 Tx slots	Left Cheek	0mm	Ant 2	ECI1	Main PA	661	1880	-	20.71	21.50	1.199	0.14	0.220	0.264
	GSM1900	GPRS 4 Tx slots	Left Tilted	0mm	Ant 2	ECI1	Main PA	661	1880	-	20.71	21.50	1.199	0.09	0.142	0.170
	GSM1900	GPRS 4 Tx slots	Right Cheek	0mm	Ant 4	ECI1	Main PA	661	1880	-	23.78	25.00	1.324	0.05	0.048	0.064
	GSM1900	GPRS 4 Tx slots	Right Tilted	0mm	Ant 4	ECI1	Main PA	661	1880	-	23.78	25.00	1.324	0.03	0.025	0.033
	GSM1900	GPRS 4 Tx slots	Left Cheek	0mm	Ant 4	ECI1	Main PA	661	1880	-	23.78	25.00	1.324	0.12	0.018	0.024
	GSM1900	GPRS 4 Tx slots	Left Tilted	0mm	Ant 4	ECI1	Main PA	661	1880	-	23.78	25.00	1.324	-0.18	0.008	0.011

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI1	Main PA	9400	1880	-	16.48	17.50	1.265	0.18	0.688	0.870
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI1	Main PA	9262	1852.4	-	16.44	17.50	1.276	0.09	0.637	0.813
03	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI1	Main PA	9538	1907.6	-	16.45	17.50	1.274	-0.04	0.790	1.006
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI1	Main PA	9400	1880	-	16.48	17.50	1.265	-0.05	0.254	0.321
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI1	Main PA	9400	1880	-	16.48	17.50	1.265	-0.09	0.202	0.256
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI1	Main PA	9400	1880	-	16.48	17.50	1.265	0.02	0.114	0.144
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI1	Main PA	9400	1880	-	23.65	25.00	1.365	0.02	0.134	0.183
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI1	Main PA	9400	1880	-	23.65	25.00	1.365	-0.16	0.078	0.106
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	ECI1	Main PA	9400	1880	-	23.65	25.00	1.365	-0.16	0.122	0.167
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 4	ECI1	Main PA	9400	1880	-	23.65	25.00	1.365	-0.09	0.070	0.096
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI1	Main PA	1413	1732.6	-	16.95	18.00	1.274	-0.04	0.831	1.059
04	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI1	Main PA	1312	1712.4	-	16.93	18.00	1.279	-0.06	0.851	1.088
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI1	Main PA	1513	1752.6	-	16.85	18.00	1.303	-0.02	0.787	1.025
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI1	Main PA	1413	1732.6	-	16.95	18.00	1.274	0.13	0.321	0.409
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI1	Main PA	1413	1732.6	-	16.95	18.00	1.274	-0.13	0.262	0.334
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI1	Main PA	1413	1732.6	-	16.95	18.00	1.274	-0.12	0.153	0.195
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI1	Main PA	1413	1732.6	-	23.67	25.00	1.358	-0.03	0.167	0.227
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI1	Main PA	1413	1732.6	-	23.67	25.00	1.358	0.14	0.076	0.103
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	ECI1	Main PA	1413	1732.6	-	23.67	25.00	1.358	-0.05	0.130	0.177
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 4	ECI1	Main PA	1413	1732.6	-	23.67	25.00	1.358	-0.11	0.075	0.102
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	ECI1	Main PA	4182	836.4	-	24.14	25.00	1.219	0.05	0.219	0.267
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	ECI1	Main PA	4182	836.4	-	24.14	25.00	1.219	-0.08	0.117	0.143
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	ECI1	Main PA	4182	836.4	-	24.14	25.00	1.219	0.12	0.197	0.240
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	ECI1	Main PA	4182	836.4	-	24.14	25.00	1.219	0.12	0.084	0.102
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI1	Main PA	4182	836.4	-	20.06	21.20	1.3	-0.09	0.519	0.675
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	ECI1	Main PA	4182	836.4	-	20.06	21.20	1.3	0.12	0.054	0.070
05	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI1	Main PA	4182	836.4	-	20.06	21.20	1.3	0.08	0.755	0.982
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI1	Main PA	4132	826.4	-	20.05	21.20	1.303	-0.01	0.729	0.950
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI1	Main PA	4233	846.6	-	20.04	21.20	1.306	-0.10	0.740	0.966
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	ECI1	Main PA	4182	836.4	-	20.06	21.20	1.3	0.12	0.112	0.146



【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	21100	2535	-	17.28	17.70	1.102			-0.14	0.861	0.949
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	20850	2510	-	17.23	17.70	1.114			-0.02	0.871	0.970
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	21350	2560	-	17.21	17.70	1.119			0.01	0.850	0.951
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	21100	2535	-	17.25	17.70	1.109			0.12	0.866	0.960
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	20850	2510	-	17.15	17.70	1.135			0.01	0.881	1.000
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	21350	2560	-	17.13	17.70	1.14			-0.11	0.859	0.979
	LTE Band 7	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	21100	2535	-	17.11	17.70	1.146			0.04	0.542	0.621
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI1	Main PA	21100	2535	-	17.28	17.70	1.102			0.16	0.351	0.387
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI1	Main PA	21100	2535	-	17.25	17.70	1.109			0.01	0.357	0.396
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	ECI1	Main PA	21100	2535	-	17.28	17.70	1.102			0.11	0.373	0.411
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	ECI1	Main PA	21100	2535	-	17.25	17.70	1.109			-0.08	0.379	0.420
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	ECI1	Main PA	21100	2535	-	17.28	17.70	1.102			0.15	0.155	0.171
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	ECI1	Main PA	21100	2535	-	17.25	17.70	1.109			-0.05	0.153	0.170
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	ECI1	Main PA	21100	2535	-	17.78	18.20	1.102			0.05	0.692	0.763
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	ECI1	Main PA	21100	2535	-	17.75	18.20	1.109			-0.12	0.698	0.774
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	21100	2535	-	17.78	18.20	1.102			0.03	0.820	0.904
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	20850	2510	-	17.73	18.20	1.114			-0.07	0.808	0.900
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	21350	2560	-	17.71	18.20	1.119			0.09	0.876	0.980
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	21100	2535	-	17.75	18.20	1.109			0.12	0.821	0.910
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	20850	2510	-	17.63	18.20	1.14			0.06	0.822	0.937
06	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	21350	2560	-	17.67	18.20	1.13			0.02	0.889	1.005
	LTE Band 7	20M	QPSK	100	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	21100	2535	-	17.65	18.20	1.135			0.02	0.519	0.589
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI1	Main PA	21100	2535	-	17.78	18.20	1.102			-0.14	0.461	0.508
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	ECI1	Main PA	21100	2535	-	17.75	18.20	1.109			-0.04	0.462	0.512
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	ECI1	Main PA	21100	2535	-	17.78	18.20	1.102			-0.06	0.543	0.598
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	ECI1	Main PA	21100	2535	-	17.75	18.20	1.109			0.03	0.550	0.610
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI1	Main PA	21100	2535	-	24.54	25.70	1.306			0.03	0.131	0.171
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	ECI1	Main PA	21100	2535	-	23.42	24.70	1.343			0.03	0.102	0.137
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	ECI1	Main PA	21100	2535	-	24.54	25.70	1.306			-0.03	0.067	0.088
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	ECI1	Main PA	21100	2535	-	23.42	24.70	1.343			0.09	0.051	0.068
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	ECI1	Main PA	21100	2535	-	24.54	25.70	1.306			0.02	0.257	0.336
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	ECI1	Main PA	21100	2535	-	23.42	24.70	1.343			0.13	0.190	0.255
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	ECI1	Main PA	21100	2535	-	24.54	25.70	1.306			0.01	0.039	0.051
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	ECI1	Main PA	21100	2535	-	23.42	24.70	1.343			0.08	0.039	0.052
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	ECI1	Main PA	21100	2535	10	17.53	18.50	1.25			-0.16	0.382	0.478
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	ECI1	Main PA	21100	2535	10	17.50	18.50	1.259			0.14	0.384	0.483
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	ECI1	Main PA	21100	2535	10	17.53	18.50	1.25			-0.14	0.105	0.131
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	ECI1	Main PA	21100	2535	10	17.50	18.50	1.259			0.10	0.106	0.133
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	ECI1	Main PA	21100	2535	10	17.53	18.50	1.25			-0.15	0.787	0.984
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	ECI1	Main PA	20850	2510	10	17.49	18.50	1.262			0.05	0.512	0.646
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	ECI1	Main PA	21350	2560	10	17.47	18.50	1.268			-0.17	0.738	0.936
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	ECI1	Main PA	21100	2535	10	17.50	18.50	1.259			-0.05	0.710	0.894
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	ECI1	Main PA	20850	2510	10	17.38	18.50	1.294			-0.11	0.555	0.718
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	ECI1	Main PA	21350	2560	10	17.36	18.50	1.3			-0.09	0.745	0.969
	LTE Band 7	20M	QPSK	100	0	Left Cheek	0mm	Ant 5	ECI1	Main PA	21100	2535	10	17.48	18.50	1.265			0.15	0.449	0.568
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	ECI1	Main PA	21100	2535	10	17.53	18.50	1.25			0.02	0.269	0.336
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	ECI1	Main PA	21100	2535	10	17.50	18.50	1.259			-0.11	0.266	0.335
	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	ECI1	Main PA	23095	707.5	-	24.56	25.50	1.242			0.10	0.119	0.148
	LTE Band 12	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	ECI1	Main PA	23095	707.5	-	23.47	24.50	1.268			-0.04	0.092	0.117
	LTE Band 12	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	ECI1	Main PA	23095	707.5	-	24.56	25.50	1.242			0.01	0.088	0.109
	LTE Band 12	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	ECI1	Main PA	23095	707.5	-	23.47	24.50	1.268			0.11	0.068	0.086
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	ECI1	Main PA	23095	707.5	-	24.56	25.50	1.242			0.06	0.152	0.189
	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	ECI1	Main PA	23095	707.5	-	23.47	24.50	1.268			-0.11	0.122	0.155
	LTE Band 12	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	ECI1	Main PA	23095	707.5	-	24.56	25.50	1.242			-0.12	0.069	0.086
	LTE Band 12	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	ECI1	Main PA	23095	707.5	-	23.47	24.50	1.268			-0.03	0.054	0.068
	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	ECI1	Main PA	23095	707.5	-	22.28	22.70	1.102			0.03	0.505	0.557
	LTE Band 12	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	ECI1	Main PA	23095	707.5	-	22.24	22.70	1.112			0.02	0.511	0.568
	LTE Band 12	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	ECI1	Main PA	23095	707.5	-	22.28	22.70	1.102			-0.08	0.098	0.108
	LTE Band 12	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	ECI1	Main PA	23095	707.5	-	22.24	22.70	1.112			-0.08	0.098	0.109
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	ECI1	Main PA	23095	707.5	-	22.28	22.70	1.102			-0.06	0.705	0.777
07	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	ECI1	Main PA	23095	707.5	-	22.24	22.70	1.112			0.06	0.708	0.787
	LTE Band 12	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	ECI1	Main PA	23095	707.5	-	22.28	22.70	1.102			-0.17	0.118	0.130
	LTE Band 12	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	ECI1	Main PA	23095	707.5	-	22.24	22.70	1.112			0.05	0.113	0.126
	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	ECI1	Main PA	23230	782	-	24.75	25.50	1.189			0.05	0.171	0.203
	LTE Band 13	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	ECI1	Main PA	23230	782	-	23.87	24.50	1.156			-0.06	0.135	0.156
	LTE Band 13	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	ECI1	Main PA	23230	782	-	24.75	25.50	1.189			0.14	0.102	0.121
	LTE Band 13	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	ECI1	Main PA	23230	782	-	23.87	24.50	1.156			-0.06	0.083	0.096



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	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	EC11	Main PA	23230	782	-	24.75	25.50	1.189			-0.17	0.161	0.191
	LTE Band 13	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	EC11	Main PA	23230	782	-	23.87	24.50	1.156			0.11	0.127	0.147
	LTE Band 13	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	EC11	Main PA	23230	782	-	24.75	25.50	1.189			0.02	0.076	0.090
	LTE Band 13	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	EC11	Main PA	23230	782	-	23.87	24.50	1.156			-0.14	0.058	0.067
	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	EC11	Main PA	23230	782	-	22.67	23.20	1.13			-0.16	0.622	0.703
	LTE Band 13	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	EC11	Main PA	23230	782	-	22.65	23.20	1.135			-0.10	0.494	0.561
	LTE Band 13	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	EC11	Main PA	23230	782	-	22.67	23.20	1.13			0.02	0.121	0.137
	LTE Band 13	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	EC11	Main PA	23230	782	-	22.65	23.20	1.135			-0.12	0.094	0.107
08	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	EC11	Main PA	23230	782	-	22.67	23.20	1.13			-0.05	0.952	1.076
	LTE Band 13	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	EC11	Main PA	23230	782	-	22.65	23.20	1.135			0.03	0.755	0.857
	LTE Band 13	10M	QPSK	50	0	Left Cheek	0mm	Ant 1	EC11	Main PA	23230	782	-	22.56	23.20	1.159			-0.12	0.755	0.875
	LTE Band 13	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	EC11	Main PA	23230	782	-	22.67	23.20	1.13			0.06	0.139	0.157
	LTE Band 13	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	EC11	Main PA	23230	782	-	22.65	23.20	1.135			0.08	0.110	0.125
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	EC11	Main PA	26340	1880	-	17.30	18.00	1.175			-0.07	0.796	0.935
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	EC11	Main PA	26140	1860	-	17.26	18.00	1.186			0.10	0.795	0.943
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	EC11	Main PA	26590	1905	-	17.22	18.00	1.197			0.07	0.854	1.022
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	EC11	Main PA	26340	1880	-	17.25	18.00	1.189			-0.09	0.797	0.948
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	EC11	Main PA	26140	1860	-	17.18	18.00	1.208			-0.03	0.797	0.963
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	EC11	Main PA	26590	1905	-	17.16	18.00	1.213			0.02	0.861	1.044
	LTE Band 25	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	EC11	Main PA	26340	1880	-	17.18	18.00	1.208			-0.15	0.807	0.975
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	EC11	Main PA	26340	1880	-	17.30	18.00	1.175			-0.12	0.277	0.325
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	EC11	Main PA	26340	1880	-	17.25	18.00	1.189			0.17	0.278	0.331
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	EC11	Main PA	26340	1880	-	17.30	18.00	1.175			0.18	0.275	0.323
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	EC11	Main PA	26340	1880	-	17.25	18.00	1.189			-0.13	0.275	0.327
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	EC11	Main PA	26340	1880	-	17.30	18.00	1.175			-0.10	0.140	0.165
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	EC11	Main PA	26340	1880	-	17.25	18.00	1.189			-0.03	0.142	0.169
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	EC11-1	Other PA	18900	1880	-	17.28	18.50	1.324			0.02	0.704	0.932
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	EC11-2	Other PA-1	18900	1880	-	17.21	18.00	1.199			0.01	0.706	0.846
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	EC11	Main PA	26340	1880	1	17.02	18.50	1.406			0.00	0.628	0.883
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	EC11	Main PA	26140	1860	1	16.99	18.50	1.416			-0.04	0.736	1.042
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	EC11	Main PA	26590	1905	1	16.95	18.50	1.429			0.04	0.532	0.760
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	EC11	Main PA	26340	1880	1	16.95	18.50	1.429			0.00	0.597	0.853
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	EC11	Main PA	26140	1860	1	16.81	18.50	1.476			-0.02	0.565	0.834
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	EC11	Main PA	26590	1905	1	16.88	18.50	1.452			-0.11	0.580	0.842
	LTE Band 25	20M	QPSK	100	0	Right Cheek	0mm	Ant 3	EC11	Main PA	26340	1880	1	16.85	18.50	1.462			-0.13	0.578	0.845
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11	Main PA	26340	1880	1	17.02	18.50	1.406			-0.18	0.650	0.914
09	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11	Main PA	26140	1860	1	16.99	18.50	1.416			-0.04	0.769	1.089
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11	Main PA	26590	1905	1	16.95	18.50	1.429			-0.12	0.549	0.785
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	EC11	Main PA	26340	1880	1	16.95	18.50	1.429			0.13	0.620	0.886
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	EC11	Main PA	26140	1860	1	16.81	18.50	1.476			0.00	0.691	1.020
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	EC11	Main PA	26590	1905	1	16.88	18.50	1.452			-0.00	0.536	0.778
	LTE Band 25	20M	QPSK	100	0	Right Tilted	0mm	Ant 3	EC11	Main PA	26340	1880	1	16.85	18.50	1.462			0.09	0.599	0.876
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	EC11	Main PA	26340	1880	1	17.02	18.50	1.406			0.03	0.438	0.616
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	EC11	Main PA	26340	1880	1	16.95	18.50	1.429			-0.18	0.409	0.584
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	EC11	Main PA	26340	1880	1	17.02	18.50	1.406			-0.06	0.520	0.731
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	EC11	Main PA	26340	1880	1	16.95	18.50	1.429			0.17	0.489	0.699
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11-1	Other PA	18900	1880	1	16.29	16.70	1.099			0.03	0.621	0.682
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11-2	Other PA-1	18900	1880	1	15.95	17.50	1.429			0.05	0.579	0.827
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11-1	Other PA	18900	1880	2	16.29	16.70	1.099			-0.03	0.448	0.492
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11-2	Other PA-1	18900	1880	2	15.95	17.50	1.429			0.01	0.433	0.619
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	EC11	Main PA	26340	1880	-	23.57	25.00	1.39			0.03	0.119	0.165
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	EC11	Main PA	26340	1880	-	22.57	24.00	1.39			0.11	0.096	0.133
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	EC11	Main PA	26340	1880	-	23.57	25.00	1.39			-0.07	0.053	0.074
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	EC11	Main PA	26340	1880	-	22.57	24.00	1.39			0.15	0.041	0.057
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	EC11	Main PA	26340	1880	-	23.57	25.00	1.39			0.03	0.097	0.135
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	EC11	Main PA	26340	1880	-	22.57	24.00	1.39			0.18	0.082	0.114
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	EC11	Main PA	26340	1880	-	23.57	25.00	1.39			0.16	0.060	0.083
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	EC11	Main PA	26340	1880	-	22.57	24.00	1.39			0.11	0.046	0.064
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	EC11-1	Other PA	18900	1880	-	23.75	25.50	1.496			0.06	0.108	0.162
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	EC11-2	Other PA-1	18900	1880	-	23.97	25.50	1.422			0.09	0.093	0.132
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	EC11	Main PA	26340	1880	0	17.12	18.50	1.374			0.13	0.415	0.570
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	EC11	Main PA	26340	1880	0	17.08	18.50	1.387			0.09	0.402	0.558
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	EC11	Main PA	26340	1880	0	17.12	18.50	1.374			-0.01	0.073	0.100
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	EC11	Main PA	26340	1880	0	17.08	18.50	1.387			-0.15	0.070	0.097
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	EC11	Main PA	26340	1880	0	17.12	18.50	1.374			-0.06	0.459	0.631
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	EC11	Main PA	26340	1880	0	17.08	18.50	1.387			-0.05	0.455	0.631
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	EC11	Main PA	26340	1880	0	17.12	18.50	1.374			0.09	0.110	0.151
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	EC11	Main PA	26340	1880	0	17.08	18.50	1.387			-0.13	0.106	0.147
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	EC11-1	Other PA	18900	1880	0	16.77	18.50	1.489			0.05	0.411	0.612
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	EC11-2	Other PA-1	18900	1880	0	16.69	18.50						



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	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 0	ECI1	Main PA	26865	831.5	-	23.88	24.70	1.208			0.14	0.126	0.152
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 0	ECI1	Main PA	26865	831.5	-	25.06	25.70	1.159			0.02	0.268	0.311
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 0	ECI1	Main PA	26865	831.5	-	23.88	24.70	1.208			0.14	0.205	0.248
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 0	ECI1	Main PA	26865	831.5	-	25.06	25.70	1.159			0.06	0.125	0.145
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 0	ECI1	Main PA	26865	831.5	-	23.88	24.70	1.208			-0.05	0.093	0.112
	LTE Band 5	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	ECI1-1	Other PA	20525	836.5	1	24.79	25.50	1.178			0.01	0.259	0.305
	LTE Band 5	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	ECI1-1	Other PA	20525	836.5	4	24.79	25.50	1.178			0.06	0.139	0.164
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	ECI1	Main PA	26865	831.5	-	21.58	22.20	1.153			-0.09	0.576	0.664
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 1	ECI1	Main PA	26865	831.5	-	21.55	22.20	1.161			-0.08	0.459	0.533
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 1	ECI1	Main PA	26865	831.5	-	21.58	22.20	1.153			0.14	0.108	0.125
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 1	ECI1	Main PA	26865	831.5	-	21.55	22.20	1.161			-0.11	0.083	0.096
10	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 1	ECI1	Main PA	26865	831.5	-	21.58	22.20	1.153			-0.00	0.912	1.052
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 1	ECI1	Main PA	26865	831.5	-	21.55	22.20	1.161			0.17	0.715	0.830
	LTE Band 26	15M	QPSK	75	0	Left Cheek	0mm	Ant 1	ECI1	Main PA	26865	831.5	-	21.43	22.20	1.194			0.13	0.715	0.854
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 1	ECI1	Main PA	26865	831.5	-	21.58	22.20	1.153			-0.16	0.139	0.160
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 1	ECI1	Main PA	26865	831.5	-	21.55	22.20	1.161			0.06	0.109	0.127
	LTE Band 5	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	ECI1-1	Other PA	20525	836.5	1	20.59	21.20	1.151			0.01	0.883	1.016
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	132322	1745	-	17.64	18.20	1.138			0.06	0.843	0.959
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	132072	1720	-	17.59	18.20	1.151			0.08	0.832	0.958
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	132572	1770	-	17.58	18.20	1.153			-0.05	0.862	0.994
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	132322	1745	-	17.60	18.20	1.148			-0.14	0.844	0.969
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	132072	1720	-	17.49	18.20	1.178			0.16	0.836	0.985
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	132572	1770	-	17.45	18.20	1.189			-0.16	0.830	0.987
	LTE Band 66	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	132322	1745	-	17.53	18.20	1.167			-0.11	0.845	0.986
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI1	Main PA	132322	1745	-	17.64	18.20	1.138			0.16	0.299	0.340
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI1	Main PA	132322	1745	-	17.60	18.20	1.148			0.02	0.301	0.346
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	ECI1	Main PA	132322	1745	-	17.64	18.20	1.138			0.15	0.267	0.304
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	ECI1	Main PA	132322	1745	-	17.60	18.20	1.148			0.14	0.265	0.304
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	ECI1	Main PA	132322	1745	-	17.64	18.20	1.138			0.00	0.156	0.178
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	ECI1	Main PA	132322	1745	-	17.60	18.20	1.148			0.02	0.154	0.177
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI1-1	Other PA	132572	1770	-	17.58	18.20	1.153			-0.03	0.836	0.964
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI1-2	Other PA-1	132572	1770	-	17.65	18.50	1.216			-0.15	0.576	0.700
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	ECI1	Main PA	132322	1745	0	16.25	17.20	1.245			-0.09	0.735	0.915
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	ECI1	Main PA	132072	1720	0	16.21	17.20	1.256			-0.09	0.721	0.906
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	ECI1	Main PA	132572	1770	0	16.23	17.20	1.25			-0.11	0.681	0.851
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	ECI1	Main PA	132322	1745	0	16.23	17.20	1.25			-0.00	0.727	0.909
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	ECI1	Main PA	132072	1720	0	16.19	17.20	1.262			-0.14	0.674	0.851
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	ECI1	Main PA	132572	1770	0	16.14	17.20	1.276			-0.15	0.666	0.850
	LTE Band 66	20M	QPSK	100	0	Right Cheek	0mm	Ant 3	ECI1	Main PA	132322	1745	0	16.17	17.20	1.268			-0.15	0.720	0.913
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	132322	1745	0	16.25	17.20	1.245			-0.10	0.766	0.954
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	132072	1720	0	16.21	17.20	1.256			0.02	0.782	0.982
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	132572	1770	0	16.23	17.20	1.25			0.16	0.703	0.879
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	132322	1745	0	16.23	17.20	1.25			0.01	0.750	0.938
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	132072	1720	0	16.19	17.20	1.262			0.13	0.787	0.993
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	132572	1770	0	16.14	17.20	1.276			0.04	0.691	0.882
	LTE Band 66	20M	QPSK	100	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	132322	1745	0	16.17	17.20	1.268			0.13	0.752	0.954
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI1	Main PA	132322	1745	0	16.25	17.20	1.245			-0.17	0.597	0.743
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	ECI1	Main PA	132322	1745	0	16.23	17.20	1.25			-0.05	0.597	0.746
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	ECI1	Main PA	132322	1745	0	16.25	17.20	1.245			-0.14	0.638	0.794
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	ECI1	Main PA	132322	1745	0	16.23	17.20	1.25			0.05	0.625	0.781
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI1-1	Other PA	132072	1720	0	16.53	17.20	1.167			0.03	0.818	0.955
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI1-2	Other PA-1	132072	1720	0	16.21	18.00	1.51			-0.17	0.473	0.714
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI1	Main PA	132322	1745	-	24.56	25.70	1.3			0.01	0.209	0.272
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	ECI1	Main PA	132322	1745	-	23.59	24.70	1.291			-0.00	0.168	0.217
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI1-1	Other PA	132322	1745	-	25.04	25.70	1.164			0.04	0.185	0.215
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI1-2	Other PA-1	132322	1745	-	22.81	24.50	1.476			-0.15	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	ECI1	Main PA	132322	1745	-	24.56	25.70	1.3			0.17	0.135	0.176
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	ECI1	Main PA	132322	1745	-	23.59	24.70	1.291			-0.11	0.107	0.138
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	ECI1	Main PA	132322	1745	-	24.56	25.70	1.3			0.18	0.163	0.212
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	ECI1	Main PA	132322	1745	-	23.59	24.70	1.291			0.10	0.135	0.174
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	ECI1	Main PA	132322	1745	-	24.56	25.70	1.3			-0.12	0.116	0.151
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	ECI1	Main PA	132322	1745	-	23.59	24.70	1.291			0.07	0.088	0.114
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	ECI1	Main PA	132322	1745	8	17.59	19.00	1.384			-0.11	0.587	0.812
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	ECI1	Main PA	132072	1720	9	17.53	19.00	1.403			0.04	0.521	0.731
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	ECI1	Main PA	132572	1770	4	17.50	19.00	1.413			-0.13	0.558	0.788
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	ECI1	Main PA	132322	1745	8	17.55	19.00	1.396			0.16	0.592	0.826
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	ECI1	Main PA	132072	1720	9	17.48	19.00	1.419			-0.05	0.527	0.748
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	ECI1	Main PA	132572	1770	4	17.46	19.00	1.426			-0.15	0.560	0.799
	LTE Band 66	20M	QPSK	100	0	Right Cheek	0mm	Ant 5	ECI1	Main PA	132322	1745	8	17.54	19.00	1.4			-0.18	0.593	0.830
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm														



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	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	EC11	Main PA	132572	1770	4	17.50	19.00	1.413			0.00	0.617	0.872
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	EC11	Main PA	132322	1745	8	17.55	19.00	1.396			-0.01	0.697	0.973
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	EC11	Main PA	132072	1720	9	17.48	19.00	1.419			-0.06	0.668	0.948
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	EC11	Main PA	132572	1770	4	17.46	19.00	1.426			-0.04	0.614	0.876
11	LTE Band 66	20M	QPSK	100	0	Left Cheek	0mm	Ant 5	EC11	Main PA	132322	1745	8	17.54	19.00	1.4			0.05	0.776	1.086
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	EC11	Main PA	132322	1745	8	17.59	19.00	1.384			-0.14	0.110	0.152
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	EC11	Main PA	132322	1745	8	17.55	19.00	1.396			0.04	0.113	0.158
	LTE Band 66	20M	QPSK	100	0	Left Cheek	0mm	Ant 5	EC11-1	Other PA	132322	1745	8	17.55	19.00	1.396			0.02	0.767	1.071
	LTE Band 66	20M	QPSK	100	0	Left Cheek	0mm	Ant 5	EC11-2	Other PA-1	132322	1745	8	17.11	19.00	1.545			0.16	0.453	0.700
	LTE Band 71	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	EC11	Main PA	133297	680.5	2	24.12	25.00	1.225			0.19	0.054	0.066
	LTE Band 71	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	EC11	Main PA	133297	680.5	2	23.17	24.00	1.211			0.07	0.049	0.059
	LTE Band 71	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	EC11	Main PA	133297	680.5	2	24.12	25.00	1.225			0.17	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	EC11	Main PA	133297	680.5	2	23.17	24.00	1.211			-0.10	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	EC11	Main PA	133297	680.5	2	24.12	25.00	1.225			0.01	0.064	0.078
	LTE Band 71	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	EC11	Main PA	133297	680.5	2	23.17	24.00	1.211			-0.10	0.056	0.068
	LTE Band 71	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	EC11	Main PA	133297	680.5	2	24.12	25.00	1.225			0.08	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	EC11	Main PA	133297	680.5	2	23.17	24.00	1.211			-0.09	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	EC11	Main PA	133297	680.5	-	22.75	23.70	1.245			0.01	0.650	0.809
	LTE Band 71	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	EC11	Main PA	133297	680.5	-	22.72	23.70	1.253			0.02	0.563	0.705
	LTE Band 71	20M	QPSK	100	0	Right Cheek	0mm	Ant 1	EC11	Main PA	133297	680.5	-	22.63	23.70	1.279			-0.11	0.565	0.723
	LTE Band 71	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	EC11	Main PA	133297	680.5	-	22.75	23.70	1.245			-0.19	0.116	0.144
	LTE Band 71	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	EC11	Main PA	133297	680.5	-	22.72	23.70	1.253			0.07	0.102	0.128
12	LTE Band 71	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	EC11	Main PA	133297	680.5	-	22.75	23.70	1.245			-0.04	0.872	1.086
	LTE Band 71	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	EC11	Main PA	133297	680.5	-	22.72	23.70	1.253			-0.13	0.760	0.952
	LTE Band 71	20M	QPSK	100	0	Left Cheek	0mm	Ant 1	EC11	Main PA	133297	680.5	-	22.63	23.70	1.279			-0.16	0.783	1.001
	LTE Band 71	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	EC11	Main PA	133297	680.5	-	22.75	23.70	1.245			-0.14	0.144	0.179
	LTE Band 71	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	EC11	Main PA	133297	680.5	-	22.72	23.70	1.253			-0.01	0.126	0.158
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	EC11	Main PA	40620	2593	-	19.30	19.70	1.096	62.9	1.006	0.04	0.801	0.883
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	EC11	Main PA	39750	2506	-	19.22	19.70	1.117	62.9	1.006	0.00	0.819	0.920
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	EC11	Main PA	40185	2549.5	-	19.25	19.70	1.109	62.9	1.006	-0.03	0.814	0.908
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	EC11	Main PA	41055	2636.5	-	19.21	19.70	1.119	62.9	1.006	0.18	0.838	0.943
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	EC11	Main PA	41490	2680	-	19.23	19.70	1.114	62.9	1.006	0.11	0.862	0.966
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	EC11	Main PA	40620	2593	-	19.26	19.70	1.107	62.9	1.006	0.04	0.782	0.871
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	EC11	Main PA	39750	2506	-	19.08	19.70	1.153	62.9	1.006	-0.04	0.805	0.934
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	EC11	Main PA	40185	2549.5	-	19.18	19.70	1.127	62.9	1.006	0.01	0.819	0.929
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	EC11	Main PA	41055	2636.5	-	19.13	19.70	1.14	62.9	1.006	-0.14	0.845	0.969
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	EC11	Main PA	41490	2680	-	19.10	19.70	1.148	62.9	1.006	0.03	0.853	0.985
	LTE Band 41	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	EC11	Main PA	40620	2593	-	19.10	19.70	1.148	62.9	1.006	0.11	0.623	0.719
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	EC11	Main PA	40620	2593	-	19.30	19.70	1.096	62.9	1.006	-0.14	0.308	0.340
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	EC11	Main PA	40620	2593	-	19.26	19.70	1.107	62.9	1.006	-0.19	0.299	0.333
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	EC11	Main PA	40620	2593	-	19.30	19.70	1.096	62.9	1.006	0.11	0.407	0.449
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	EC11	Main PA	40620	2593	-	19.26	19.70	1.107	62.9	1.006	0.14	0.395	0.440
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	EC11	Main PA	40620	2593	-	19.30	19.70	1.096	62.9	1.006	0.15	0.144	0.159
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	EC11	Main PA	40620	2593	-	19.26	19.70	1.107	62.9	1.006	0.04	0.147	0.164
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	EC11	Main PA	40620	2593	-	19.88	20.20	1.076	62.9	1.006	-0.10	0.685	0.741
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	EC11	Main PA	39750	2506	-	19.83	20.20	1.089	62.9	1.006	0.12	0.737	0.807
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	EC11	Main PA	40185	2549.5	-	19.81	20.20	1.094	62.9	1.006	0.01	0.742	0.817
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	EC11	Main PA	41055	2636.5	-	19.84	20.20	1.086	62.9	1.006	0.01	0.679	0.742
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	EC11	Main PA	41490	2680	-	19.85	20.20	1.084	62.9	1.006	0.09	0.620	0.676
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	EC11	Main PA	40620	2593	-	19.81	20.20	1.094	62.9	1.006	0.11	0.683	0.752
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	EC11	Main PA	39750	2506	-	19.76	20.20	1.107	62.9	1.006	0.19	0.745	0.830
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	EC11	Main PA	40185	2549.5	-	19.78	20.20	1.102	62.9	1.006	-0.14	0.739	0.819
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	EC11	Main PA	41055	2636.5	-	19.73	20.20	1.114	62.9	1.006	0.15	0.678	0.760
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	EC11	Main PA	41490	2680	-	19.75	20.20	1.109	62.9	1.006	0.01	0.623	0.695
	LTE Band 41	20M	QPSK	100	0	Right Cheek	0mm	Ant 3	EC11	Main PA	40620	2593	-	19.78	20.20	1.102	62.9	1.006	0.14	0.555	0.615
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11	Main PA	40620	2593	-	19.88	20.20	1.076	62.9	1.006	-0.17	0.887	0.960
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11	Main PA	39750	2506	-	19.83	20.20	1.089	62.9	1.006	0.18	0.883	0.967
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11	Main PA	40185	2549.5	-	19.81	20.20	1.094	62.9	1.006	0.19	0.869	0.956
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11	Main PA	41055	2636.5	-	19.84	20.20	1.086	62.9	1.006	-0.08	0.892	0.975
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11	Main PA	41490	2680	-	19.85	20.20	1.084	62.9	1.006	0.15	0.814	0.888
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	EC11	Main PA	40620	2593	-	19.81	20.20	1.094	62.9	1.006	-0.06	0.876	0.964
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	EC11	Main PA	39750	2506	-	19.76	20.20	1.107	62.9	1.006	-0.03	0.896	0.998
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	EC11	Main PA	40185	2549.5	-	19.78	20.20	1.102	62.9	1.006	0.05	0.862	0.956
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	EC11	Main PA	41055	2636.5	-	19.73	20.20	1.114	62.9	1.006	-0.18	0.890	0.997
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	EC11	Main PA	41490	2680	-	19.75	20.20	1.109	62.9	1.006	0.16	0.821	0.916
	LTE Band 41	20M	QPSK	100	0	Right Tilted	0mm	Ant 3	EC11	Main PA	40620	2593	-	19.78	20.20	1.102	62.9	1.006	-0.16	0.699	0.775
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	EC11	Main PA	40620	2593	-	19.88	20.20	1.076	62.9	1.006	-0.02		



FCC SAR Test Report

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	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	EC11	Main PA	40620	2593	-	23.73	24.50	1.194	62.9	1.006	-0.11	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	EC11	Main PA	40620	2593	-	24.57	25.50	1.239	62.9	1.006	0.01	0.109	0.136
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	EC11	Main PA	40620	2593	-	23.73	24.50	1.194	62.9	1.006	0.02	0.091	0.109
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	EC11	Main PA	40620	2593	-	24.57	25.50	1.239	62.9	1.006	-0.15	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	EC11	Main PA	40620	2593	-	23.73	24.50	1.194	62.9	1.006	-0.06	0.030	0.036
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	EC11	Main PA	40620	2593	10	19.30	20.50	1.318	62.9	1.006	-0.17	0.378	0.501
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	EC11	Main PA	40620	2593	10	19.25	20.50	1.334	62.9	1.006	0.04	0.376	0.505
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	EC11	Main PA	40620	2593	10	19.30	20.50	1.318	62.9	1.006	0.15	0.108	0.143
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	EC11	Main PA	40620	2593	10	19.25	20.50	1.334	62.9	1.006	0.19	0.107	0.144
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	EC11	Main PA	40620	2593	10	19.30	20.50	1.318	62.9	1.006	-0.10	0.706	0.936
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	EC11	Main PA	39750	2506	10	19.27	20.50	1.327	62.9	1.006	0.09	0.478	0.638
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	EC11	Main PA	40185	2549.5	10	19.22	20.50	1.343	62.9	1.006	-0.08	0.745	1.007
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	EC11	Main PA	41055	2636.5	10	19.26	20.50	1.33	62.9	1.006	-0.02	0.732	0.979
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	EC11	Main PA	41490	2680	10	19.21	20.50	1.346	62.9	1.006	-0.18	0.680	0.921
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	EC11	Main PA	40620	2593	10	19.25	20.50	1.334	62.9	1.006	-0.00	0.699	0.938
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	EC11	Main PA	39750	2506	10	19.19	20.50	1.352	62.9	1.006	-0.05	0.514	0.699
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	EC11	Main PA	40185	2549.5	10	19.13	20.50	1.371	62.9	1.006	-0.05	0.758	1.045
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	EC11	Main PA	41055	2636.5	10	19.18	20.50	1.355	62.9	1.006	-0.04	0.738	1.006
13	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	EC11	Main PA	41490	2680	10	19.13	20.50	1.371	62.9	1.006	-0.08	0.786	1.084
	LTE Band 41	20M	QPSK	100	0	Left Cheek	0mm	Ant 5	EC11	Main PA	40620	2593	10	19.16	20.50	1.361	62.9	1.006	0.07	0.558	0.764
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	EC11	Main PA	40620	2593	10	19.30	20.50	1.318	62.9	1.006	-0.03	0.264	0.350
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	EC11	Main PA	40620	2593	10	19.25	20.50	1.334	62.9	1.006	0.07	0.264	0.354
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 6	EC11	Main PA	42590	3500	2	16.03	16.50	1.114	62.9	1.006	-0.04	0.299	0.335
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 6	EC11	Main PA	42590	3500	2	15.88	16.50	1.153	62.9	1.006	-0.19	0.294	0.341
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 6	EC11	Main PA	42590	3500	2	16.03	16.50	1.114	62.9	1.006	-0.03	0.356	0.399
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 6	EC11	Main PA	42590	3500	2	15.88	16.50	1.153	62.9	1.006	0.04	0.350	0.406
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	EC11	Main PA	42590	3500	2	16.03	16.50	1.114	62.9	1.006	-0.03	0.561	0.629
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 6	EC11	Main PA	42590	3500	2	15.88	16.50	1.153	62.9	1.006	0.16	0.550	0.638
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	EC11	Main PA	42590	3500	2	16.03	16.50	1.114	62.9	1.006	-0.05	0.719	0.806
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	EC11	Main PA	42190	3460	2	15.98	16.50	1.127	62.9	1.006	-0.07	0.763	0.865
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	EC11	Main PA	42990	3540	2	15.96	16.50	1.132	62.9	1.006	-0.15	0.668	0.761
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	EC11	Main PA	42590	3500	2	15.88	16.50	1.153	62.9	1.006	-0.11	0.711	0.825
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	EC11	Main PA	42190	3460	2	15.79	16.50	1.178	62.9	1.006	-0.18	0.756	0.896
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	EC11	Main PA	42990	3540	2	15.81	16.50	1.172	62.9	1.006	-0.08	0.665	0.784
	LTE Band 42	20M	QPSK	100	0	Left Tilted	0mm	Ant 6	EC11	Main PA	42590	3500	2	15.82	16.50	1.169	62.9	1.006	0.05	0.702	0.826
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	EC11	Main PA	42590	3500	-	18.05	19.00	1.245	62.9	1.006	0.03	0.364	0.456
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	EC11	Main PA	42590	3500	-	18.00	19.00	1.259	62.9	1.006	0.06	0.365	0.462
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 7	EC11	Main PA	42590	3500	-	18.05	19.00	1.245	62.9	1.006	0.05	0.080	0.100
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 7	EC11	Main PA	42590	3500	-	18.00	19.00	1.259	62.9	1.006	0.09	0.082	0.104
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 7	EC11	Main PA	42590	3500	-	18.05	19.00	1.245	62.9	1.006	-0.12	0.194	0.243
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 7	EC11	Main PA	42590	3500	-	18.00	19.00	1.259	62.9	1.006	0.03	0.196	0.248
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 7	EC11	Main PA	42590	3500	-	18.05	19.00	1.245	62.9	1.006	-0.05	0.051	0.064
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 7	EC11	Main PA	42590	3500	-	18.00	19.00	1.259	62.9	1.006	0.02	0.051	0.065
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	EC11	Main PA	42590	3500	1C	15.36	16.50	1.3	62.9	1.006	-0.04	0.107	0.140
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	EC11	Main PA	42590	3500	1C	15.32	16.50	1.312	62.9	1.006	-0.02	0.104	0.137
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	EC11	Main PA	42590	3500	1C	15.36	16.50	1.3	62.9	1.006	-0.04	0.078	0.102
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	EC11	Main PA	42590	3500	1C	15.32	16.50	1.312	62.9	1.006	0.12	0.076	0.100
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	EC11	Main PA	42590	3500	1C	15.36	16.50	1.3	62.9	1.006	-0.18	0.627	0.820
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	EC11	Main PA	42190	3460	1C	15.31	16.50	1.315	62.9	1.006	-0.02	0.692	0.915
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	EC11	Main PA	42990	3540	1C	15.33	16.50	1.309	62.9	1.006	-0.14	0.530	0.698
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	EC11	Main PA	42590	3500	1C	15.32	16.50	1.312	62.9	1.006	-0.00	0.602	0.795
	LTE Band 42	20M	QPSK	100	0	Left Cheek	0mm	Ant 8	EC11	Main PA	42590	3500	1C	15.23	16.50	1.34	62.9	1.006	0.05	0.594	0.801
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 8	EC11	Main PA	42590	3500	1C	15.36	16.50	1.3	62.9	1.006	-0.17	0.237	0.310
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	EC11	Main PA	42590	3500	1C	15.32	16.50	1.312	62.9	1.006	-0.04	0.236	0.311
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	EC11	Main PA	42590	3500	-	17.50	19.00	1.413	62.9	1.006	-0.04	0.690	0.981
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	EC11	Main PA	42190	3460	-	17.44	19.00	1.432	62.9	1.006	-0.05	0.676	0.974
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	EC11	Main PA	42990	3540	-	17.43	19.00	1.435	62.9	1.006	0.17	0.687	0.992
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 9	EC11	Main PA	42590	3500	-	17.46	19.00	1.426	62.9	1.006	-0.14	0.687	0.986
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 9	EC11	Main PA	42190	3460	-	17.38	19.00	1.452	62.9	1.006	-0.09	0.676	0.987
14	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 9	EC11	Main PA	42990	3540	-	17.34	19.00	1.466	62.9	1.006	0.02	0.703	1.037
	LTE Band 42	20M	QPSK	100	0	Right Cheek	0mm	Ant 9	EC11	Main PA	42590	3500	-	17.39	19.00	1.449	62.9	1.006	0.16	0.683	0.996
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 9	EC11	Main PA	42590	3500	-	17.50	19.00	1.413	62.9	1.006	0.00	0.560	0.796
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 9	EC11	Main PA	42590	3500	-	17.46	19.00	1.426	62.9	1.006	0.11	0.551	0.790
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	EC11	Main PA	42590	3500	-	17.50	19.00	1.413	62.9	1.006	-0.06	0.198	0.281
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 9	EC11	Main PA	42590	3500	-	17.46	19.00	1.426	62.9	1.006	0.11	0.203	0.291
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 9	EC11	Main PA											



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	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	EC11	Main PA	55830	3609	2	16.57	17.00	1.104	62.9	1.006	-0.12	0.695	0.772
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	EC11	Main PA	55340	3560	2	16.51	17.00	1.119	62.9	1.006	-0.07	0.780	0.878
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	EC11	Main PA	56150	3641	2	16.53	17.00	1.114	62.9	1.006	0.10	0.656	0.735
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	EC11	Main PA	56640	3690	2	16.52	17.00	1.117	62.9	1.006	-0.13	0.579	0.651
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	EC11	Main PA	55830	3609	2	16.48	17.00	1.127	62.9	1.006	0.05	0.683	0.774
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	EC11	Main PA	55340	3560	2	16.39	17.00	1.151	62.9	1.006	0.06	0.772	0.894
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	EC11	Main PA	56150	3641	2	16.38	17.00	1.153	62.9	1.006	0.08	0.637	0.739
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	EC11	Main PA	56640	3690	2	16.47	17.00	1.113	62.9	1.006	0.18	0.571	0.649
	LTE Band 48	20M	QPSK	100	0	Left Tilted	0mm	Ant 6	EC11	Main PA	55830	3609	2	16.44	17.00	1.138	62.9	1.006	-0.12	0.679	0.777
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	EC11	Main PA	55830	3609	-	18.57	19.50	1.239	62.9	1.006	-0.10	0.434	0.541
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	EC11	Main PA	55830	3609	-	18.54	19.50	1.247	62.9	1.006	-0.07	0.446	0.559
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 7	EC11	Main PA	55830	3609	-	18.57	19.50	1.239	62.9	1.006	0.16	0.120	0.150
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 7	EC11	Main PA	55830	3609	-	18.54	19.50	1.247	62.9	1.006	-0.15	0.115	0.144
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 7	EC11	Main PA	55830	3609	-	18.57	19.50	1.239	62.9	1.006	-0.01	0.215	0.268
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 7	EC11	Main PA	55830	3609	-	18.54	19.50	1.247	62.9	1.006	-0.14	0.203	0.255
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 7	EC11	Main PA	55830	3609	-	18.57	19.50	1.239	62.9	1.006	-0.10	0.048	0.060
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 7	EC11	Main PA	55830	3609	-	18.54	19.50	1.247	62.9	1.006	-0.05	0.046	0.058
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	EC11	Main PA	55830	3609	1C	17.28	18.50	1.324	62.9	1.006	-0.05	0.117	0.156
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	EC11	Main PA	55830	3609	1C	17.24	18.50	1.337	62.9	1.006	-0.09	0.119	0.160
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	EC11	Main PA	55830	3609	1C	17.28	18.50	1.324	62.9	1.006	-0.15	0.074	0.099
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	EC11	Main PA	55830	3609	1C	17.24	18.50	1.337	62.9	1.006	0.06	0.075	0.101
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	EC11	Main PA	55830	3609	1C	17.28	18.50	1.324	62.9	1.006	-0.12	0.633	0.843
15	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	EC11	Main PA	55340	3560	1C	17.23	18.50	1.34	62.9	1.006	-0.05	0.778	1.049
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	EC11	Main PA	56150	3641	1C	17.21	18.50	1.346	62.9	1.006	-0.15	0.618	0.837
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	EC11	Main PA	56640	3690	1C	17.25	18.50	1.334	62.9	1.006	0.01	0.562	0.754
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	EC11	Main PA	55830	3609	1C	17.24	18.50	1.337	62.9	1.006	-0.09	0.652	0.877
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	EC11	Main PA	55340	3560	1C	17.09	18.50	1.384	62.9	1.006	0.14	0.733	1.021
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	EC11	Main PA	56150	3641	1C	17.06	18.50	1.393	62.9	1.006	0.04	0.612	0.858
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	EC11	Main PA	56640	3690	1C	17.05	18.50	1.396	62.9	1.006	0.18	0.555	0.779
	LTE Band 48	20M	QPSK	100	0	Left Cheek	0mm	Ant 8	EC11	Main PA	55830	3609	1C	17.15	18.50	1.365	62.9	1.006	0.06	0.645	0.886
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 8	EC11	Main PA	55830	3609	1C	17.28	18.50	1.324	62.9	1.006	0.01	0.214	0.285
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	EC11	Main PA	55830	3609	1C	17.24	18.50	1.337	62.9	1.006	0.13	0.214	0.288
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	EC11	Main PA	55830	3609	-	16.80	18.00	1.318	62.9	1.006	-0.13	0.700	0.928
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	EC11	Main PA	55340	3560	-	16.77	18.00	1.327	62.9	1.006	0.06	0.707	0.944
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	EC11	Main PA	56150	3641	-	16.72	18.00	1.343	62.9	1.006	-0.01	0.738	0.997
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	EC11	Main PA	56640	3690	-	16.71	18.00	1.346	62.9	1.006	0.03	0.759	1.028
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 9	EC11	Main PA	55830	3609	-	16.76	18.00	1.33	62.9	1.006	-0.02	0.713	0.954
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 9	EC11	Main PA	55340	3560	-	16.71	18.00	1.346	62.9	1.006	-0.04	0.718	0.972
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 9	EC11	Main PA	56150	3641	-	16.73	18.00	1.34	62.9	1.006	-0.18	0.737	0.994
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 9	EC11	Main PA	56640	3690	-	16.75	18.00	1.334	62.9	1.006	0.01	0.775	1.040
	LTE Band 48	20M	QPSK	100	0	Right Cheek	0mm	Ant 9	EC11	Main PA	55830	3609	-	16.62	18.00	1.374	62.9	1.006	0.13	0.719	0.994
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 9	EC11	Main PA	55830	3609	-	16.80	18.00	1.318	62.9	1.006	-0.14	0.601	0.797
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 9	EC11	Main PA	55340	3560	-	16.77	18.00	1.327	62.9	1.006	-0.09	0.626	0.836
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 9	EC11	Main PA	56150	3641	-	16.72	18.00	1.343	62.9	1.006	-0.08	0.622	0.840
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 9	EC11	Main PA	56640	3690	-	16.71	18.00	1.346	62.9	1.006	0.11	0.633	0.857
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 9	EC11	Main PA	55830	3609	-	16.76	18.00	1.33	62.9	1.006	-0.13	0.602	0.805
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 9	EC11	Main PA	55340	3560	-	16.71	18.00	1.346	62.9	1.006	-0.09	0.626	0.848
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 9	EC11	Main PA	56150	3641	-	16.73	18.00	1.34	62.9	1.006	-0.03	0.624	0.841
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 9	EC11	Main PA	56640	3690	-	16.75	18.00	1.334	62.9	1.006	0.03	0.642	0.862
	LTE Band 48	20M	QPSK	100	0	Right Tilted	0mm	Ant 9	EC11	Main PA	55830	3609	-	16.62	18.00	1.374	62.9	1.006	-0.00	0.614	0.849
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	EC11	Main PA	55830	3609	-	16.80	18.00	1.318	62.9	1.006	-0.02	0.204	0.270
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 9	EC11	Main PA	55830	3609	-	16.76	18.00	1.33	62.9	1.006	-0.09	0.212	0.284
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 9	EC11	Main PA	55830	3609	-	16.80	18.00	1.318	62.9	1.006	-0.13	0.228	0.302
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 9	EC11	Main PA	55830	3609	-	16.76	18.00	1.33	62.9	1.006	-0.11	0.245	0.328

[UL CA]

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	99	Right Cheek	0mm	Ant 2	EC11	Main PA	20850+21048	2510+2529.8	-	17.12	17.7	1.143	100	1.000	0.02	0.855	0.977
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	EC11	Main PA	21350+21152	2560+2540.2	-	17.63	18.2	1.140	100	1.000	0.06	0.856	0.976
	LTE Band 7	20M	QPSK	1	99	Left Cheek	0mm	Ant 4	EC11	Main PA	21100+21298	2535+2554.8	-	24.48	25.7	1.324	100	1.000	0.01	0.246	0.326
	LTE Band 7	20M	QPSK	1	99	Left Cheek	0mm	Ant 5	EC11	Main PA	21100+21298	2535+2554.8	10	17.43	18.5	1.279	100	1.000	0.05	0.755	0.966
	LTE Band 38	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	EC11	Main PA	38150+37952	2610+2590.2	-	19.04	19.7	1.164	62.9	1.006	0.05	0.823	0.964
	LTE Band 38	20M	QPSK	1	99	Right Tilted	0mm	Ant 3	EC11	Main PA	37850+38048	2580+2599.8	-	19.72	20.2	1.117	62.9	1.006	0.06	0.871	0.979
	LTE Band 38	20M	QPSK	1	99	Left Cheek	0mm	Ant 4	EC11	Main PA	37901+38099	2585.1+2604.9	-	24.42	25.5	1.282	62.9	1.006	0.04	0.100	0.129
	LTE Band 38	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	EC11	Main PA	38150+37952	2610+2590.2	10	19.1	20.5	1.380	62.9	1.006	0.01	0.759	1.054



【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI1	Main PA	507000	2535	-	17.42	17.70	1.067			-0.02	0.914	0.975
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 2	ECI1	Main PA	507000	2535	-	17.38	17.70	1.076			0.12	0.928	0.999
	FR1 n7	50M	BPSK	270	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	507000	2535	-	17.24	17.70	1.112			0.07	0.877	0.975
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI1	Main PA	507000	2535	-	17.42	17.70	1.067			0.01	0.379	0.404
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 2	ECI1	Main PA	507000	2535	-	17.38	17.70	1.076			-0.11	0.359	0.386
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 2	ECI1	Main PA	507000	2535	-	17.42	17.70	1.067			0.18	0.403	0.430
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 2	ECI1	Main PA	507000	2535	-	17.38	17.70	1.076			0.02	0.409	0.440
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 2	ECI1	Main PA	507000	2535	-	17.42	17.70	1.067			-0.09	0.161	0.172
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 2	ECI1	Main PA	507000	2535	-	17.38	17.70	1.076			-0.12	0.158	0.170
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI1	Main PA	507000	2535	-	17.74	18.20	1.112			0.04	0.718	0.798
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 3	ECI1	Main PA	507000	2535	-	17.69	18.20	1.125			-0.04	0.696	0.783
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI1	Main PA	507000	2535	-	17.74	18.20	1.112			-0.10	0.841	0.935
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 3	ECI1	Main PA	507000	2535	-	17.69	18.20	1.125			0.02	0.842	0.947
	FR1 n7	50M	BPSK	270	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	507000	2535	-	17.65	18.20	1.135			0.05	0.833	0.945
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI1	Main PA	507000	2535	-	17.74	18.20	1.112			0.16	0.447	0.497
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 3	ECI1	Main PA	507000	2535	-	17.69	18.20	1.125			0.09	0.455	0.512
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI1	Main PA	507000	2535	-	17.74	18.20	1.112			-0.09	0.593	0.659
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 3	ECI1	Main PA	507000	2535	-	17.69	18.20	1.125			-0.08	0.563	0.633
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 4	ECI1	Main PA	507000	2535	-	24.58	25.70	1.294			0.04	0.108	0.140
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 4	ECI1	Main PA	507000	2535	-	24.55	25.70	1.303			0.13	0.096	0.125
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 4	ECI1	Main PA	507000	2535	-	24.58	25.70	1.294			0.16	0.081	0.105
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 4	ECI1	Main PA	507000	2535	-	24.55	25.70	1.303			0.19	0.077	0.100
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 4	ECI1	Main PA	507000	2535	-	24.58	25.70	1.294			-0.14	0.164	0.212
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 4	ECI1	Main PA	507000	2535	-	24.55	25.70	1.303			0.02	0.174	0.227
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 4	ECI1	Main PA	507000	2535	-	24.58	25.70	1.294			0.07	0.051	0.066
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 4	ECI1	Main PA	507000	2535	-	24.55	25.70	1.303			0.10	0.044	0.057
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 5	ECI1	Main PA	507000	2535	10	17.63	19.00	1.371			0.16	0.386	0.529
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 5	ECI1	Main PA	507000	2535	10	17.58	19.00	1.387			0.13	0.442	0.613
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI1	Main PA	507000	2535	10	17.63	19.00	1.371			0.10	0.095	0.130
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 5	ECI1	Main PA	507000	2535	10	17.58	19.00	1.387			0.14	0.115	0.160
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI1	Main PA	507000	2535	10	17.63	19.00	1.371			-0.04	0.709	0.972
16	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 5	ECI1	Main PA	507000	2535	10	17.58	19.00	1.387			-0.02	0.774	1.074
	FR1 n7	50M	BPSK	270	0	Left Cheek	0mm	Ant 5	ECI1	Main PA	507000	2535	10	17.53	19.00	1.403			0.13	0.737	1.034
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 5	ECI1	Main PA	507000	2535	10	17.63	19.00	1.371			-0.05	0.233	0.319
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 5	ECI1	Main PA	507000	2535	10	17.58	19.00	1.387			0.12	0.281	0.390
	FR1 n12	15M	BPSK	1	1	Right Cheek	0mm	Ant 0	ECI1	Main PA	141500	707.5	-	24.73	25.50	1.194			-0.02	0.132	0.158
	FR1 n12	15M	BPSK	36	22	Right Cheek	0mm	Ant 0	ECI1	Main PA	141500	707.5	-	24.53	25.50	1.25			0.11	0.121	0.151
	FR1 n12	15M	BPSK	1	1	Right Tilted	0mm	Ant 0	ECI1	Main PA	141500	707.5	-	24.73	25.50	1.194			-0.16	0.097	0.116
	FR1 n12	15M	BPSK	36	22	Right Tilted	0mm	Ant 0	ECI1	Main PA	141500	707.5	-	24.53	25.50	1.25			-0.00	0.092	0.115
	FR1 n12	15M	BPSK	1	1	Left Cheek	0mm	Ant 0	ECI1	Main PA	141500	707.5	-	24.73	25.50	1.194			-0.03	0.165	0.197
	FR1 n12	15M	BPSK	36	22	Left Cheek	0mm	Ant 0	ECI1	Main PA	141500	707.5	-	24.53	25.50	1.25			-0.02	0.157	0.196
	FR1 n12	15M	BPSK	1	1	Left Tilted	0mm	Ant 0	ECI1	Main PA	141500	707.5	-	24.73	25.50	1.194			-0.02	0.077	0.092
	FR1 n12	15M	BPSK	36	22	Left Tilted	0mm	Ant 0	ECI1	Main PA	141500	707.5	-	24.53	25.50	1.25			0.05	0.070	0.088
	FR1 n12	15M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI1	Main PA	141500	707.5	-	22.79	23.20	1.099			-0.14	0.664	0.730
	FR1 n12	15M	BPSK	36	22	Right Cheek	0mm	Ant 1	ECI1	Main PA	141500	707.5	-	22.75	23.20	1.109			-0.14	0.710	0.787
	FR1 n12	15M	BPSK	1	1	Right Tilted	0mm	Ant 1	ECI1	Main PA	141500	707.5	-	22.79	23.20	1.099			0.05	0.126	0.138
	FR1 n12	15M	BPSK	36	22	Right Tilted	0mm	Ant 1	ECI1	Main PA	141500	707.5	-	22.75	23.20	1.109			0.05	0.133	0.147
	FR1 n12	15M	BPSK	1	1	Left Cheek	0mm	Ant 1	ECI1	Main PA	141500	707.5	-	22.79	23.20	1.099			0.13	0.893	0.981
17	FR1 n12	15M	BPSK	36	22	Left Cheek	0mm	Ant 1	ECI1	Main PA	141500	707.5	-	22.75	23.20	1.109			-0.03	0.974	1.080
	FR1 n12	15M	BPSK	75	0	Left Cheek	0mm	Ant 1	ECI1	Main PA	141500	707.5	-	22.61	23.20	1.146			0.06	0.866	0.992
	FR1 n12	15M	BPSK	1	1	Left Tilted	0mm	Ant 1	ECI1	Main PA	141500	707.5	-	22.79	23.20	1.099			-0.08	0.146	0.160
	FR1 n12	15M	BPSK	36	22	Left Tilted	0mm	Ant 1	ECI1	Main PA	141500	707.5	-	22.75	23.20	1.109			-0.10	0.157	0.174
	FR1 n25	40M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI1	Main PA	376500	1882.5	-	17.88	18.50	1.153			0.14	0.851	0.981
	FR1 n25	40M	BPSK	108	54	Right Cheek	0mm	Ant 2	ECI1	Main PA	376500	1882.5	-	17.83	18.50	1.167			0.07	0.866	1.011
	FR1 n25	40M	BPSK	216	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	376500	1882.5	-	17.66	18.50	1.213			0.07	0.828	1.004
	FR1 n25	40M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI1	Main PA	376500	1882.5	-	17.88	18.50	1.153			-0.04	0.298	0.344
	FR1 n25	40M	BPSK	108	54	Right Tilted	0mm	Ant 2	ECI1	Main PA	376500	1882.5	-	17.83	18.50	1.167			-0.04	0.308	0.359
	FR1 n25	40M	BPSK	1	1	Left Cheek	0mm	Ant 2	ECI1	Main PA	376500	1882.5	-	17.88	18.50	1.153			-0.02	0.282	0.325
	FR1 n25	40M	BPSK	108	54	Left Cheek	0mm	Ant 2	ECI1	Main PA	376500	1882.5	-	17.83	18.50	1.167			-0.12	0.288	0.336
	FR1 n25	40M	BPSK	1	1	Left Tilted	0mm	Ant 2	ECI1	Main PA	376500	1882.5	-	17.88	18.50	1.153			-0.11	0.157	0.181
	FR1 n25	40M	BPSK	108	54	Left Tilted	0mm	Ant 2	ECI1	Main PA	376500	1882.5	-	17.83	18.50	1.167			-0.12	0.148	0.173
	FR1 n2	20M	BPSK	50	28	Right Cheek	0mm	Ant 2	ECI1-1	Other PA	376000	1880	-	17.63	19.00	1.371			0.06	0.711	0.975
	FR1 n2	20M	BPSK	50	28	Right Cheek	0mm	Ant 2	ECI1-2	Other PA-1	376000	1880	-	17.66	18.50	1.213			-0.11	0.768	0.932
18	FR1 n25	40M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI1	Main PA	376500	1882.5	1	16.98	18.50	1.419			0.06	0.765	1.086
	FR1 n25	40M	BPSK	108	54	Right Cheek	0mm	Ant 3	ECI1	Main PA	376500	1882.5	1	16.94	18.50	1.432			-0.03	0.671	0.961
	FR1 n25	40M	BPSK	216	0	Right Cheek	0mm	Ant 3	ECI1	Main PA	376500	1882.5	1	16.90	18.50	1.445			0.00	0.649	0.938
	FR1 n25	40M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI1	Main PA	376500	1882.5	1	16.98	18.50	1.419			-0.14	0.764	1.084



FCC SAR Test Report

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	FR1 n25	40M	BPSK	108	54	Right Tilted	0mm	Ant 3	ECI1	Main PA	376500	1882.5	1	16.94	18.50	1.432			-0.01	0.643	0.921
	FR1 n25	40M	BPSK	216	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	376500	1882.5	1	16.90	18.50	1.445			-0.02	0.647	0.935
	FR1 n25	40M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI1	Main PA	376500	1882.5	1	16.98	18.50	1.419			0.08	0.557	0.790
	FR1 n25	40M	BPSK	108	54	Left Cheek	0mm	Ant 3	ECI1	Main PA	376500	1882.5	1	16.94	18.50	1.432			-0.02	0.453	0.649
	FR1 n25	40M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI1	Main PA	376500	1882.5	1	16.98	18.50	1.419			-0.07	0.639	0.907
	FR1 n25	40M	BPSK	108	54	Left Tilted	0mm	Ant 3	ECI1	Main PA	376500	1882.5	1	16.94	18.50	1.432			0.12	0.530	0.759
	FR1 n25	40M	BPSK	216	0	Left Tilted	0mm	Ant 3	ECI1	Main PA	376500	1882.5	1	16.90	18.50	1.445			-0.06	0.531	0.767
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI1-1	Other PA	376000	1880	1	16.23	17.20	1.25			0.05	0.560	0.700
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI1-2	Other PA-1	376000	1880	1	16.54	17.50	1.247			0.17	0.503	0.627
	FR1 n25	40M	BPSK	1	1	Right Cheek	0mm	Ant 4	ECI1	Main PA	376500	1882.5	-	23.49	25.00	1.416			0.02	0.088	0.125
	FR1 n25	40M	BPSK	108	54	Right Cheek	0mm	Ant 4	ECI1	Main PA	376500	1882.5	-	23.42	25.00	1.439			0.06	0.086	0.124
	FR1 n25	40M	BPSK	1	1	Right Tilted	0mm	Ant 4	ECI1	Main PA	376500	1882.5	-	23.49	25.00	1.416			0.06	0.050	0.071
	FR1 n25	40M	BPSK	108	54	Right Tilted	0mm	Ant 4	ECI1	Main PA	376500	1882.5	-	23.42	25.00	1.439			0.15	0.049	0.071
	FR1 n25	40M	BPSK	1	1	Left Cheek	0mm	Ant 4	ECI1	Main PA	376500	1882.5	-	23.49	25.00	1.416			0.14	0.075	0.106
	FR1 n25	40M	BPSK	108	54	Left Cheek	0mm	Ant 4	ECI1	Main PA	376500	1882.5	-	23.42	25.00	1.439			-0.18	0.072	0.104
	FR1 n25	40M	BPSK	1	1	Left Tilted	0mm	Ant 4	ECI1	Main PA	376500	1882.5	-	23.49	25.00	1.416			0.15	0.051	0.072
	FR1 n25	40M	BPSK	108	54	Left Tilted	0mm	Ant 4	ECI1	Main PA	376500	1882.5	-	23.42	25.00	1.439			0.11	0.050	0.072
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 4	ECI1-1	Other PA	376000	1880	-	23.81	25.50	1.476			0.06	0.064	0.094
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 4	ECI1-2	Other PA-1	376000	1880	-	23.94	25.00	1.276			-0.02	0.061	0.078
	FR1 n25	40M	BPSK	1	1	Right Cheek	0mm	Ant 5	ECI1	Main PA	376500	1882.5	1C	17.78	19.00	1.324			-0.18	0.261	0.346
	FR1 n25	40M	BPSK	108	54	Right Cheek	0mm	Ant 5	ECI1	Main PA	376500	1882.5	1C	17.73	19.00	1.34			-0.00	0.299	0.401
	FR1 n25	40M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI1	Main PA	376500	1882.5	1C	17.78	19.00	1.324			-0.15	0.050	0.066
	FR1 n25	40M	BPSK	108	54	Right Tilted	0mm	Ant 5	ECI1	Main PA	376500	1882.5	1C	17.73	19.00	1.34			-0.11	0.055	0.074
	FR1 n25	40M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI1	Main PA	376500	1882.5	1C	17.78	19.00	1.324			0.03	0.352	0.466
	FR1 n25	40M	BPSK	108	54	Left Cheek	0mm	Ant 5	ECI1	Main PA	376500	1882.5	1C	17.73	19.00	1.34			0.18	0.340	0.456
	FR1 n25	40M	BPSK	1	1	Left Tilted	0mm	Ant 5	ECI1	Main PA	376500	1882.5	1C	17.78	19.00	1.324			0.15	0.059	0.078
	FR1 n25	40M	BPSK	108	54	Left Tilted	0mm	Ant 5	ECI1	Main PA	376500	1882.5	1C	17.73	19.00	1.34			-0.02	0.067	0.090
	FR1 n2	20M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI1-1	Other PA	376000	1880	0	17.29	19.00	1.483			0.06	0.290	0.430
	FR1 n2	20M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI1-2	Other PA-1	376000	1880	0	17.58	19.00	1.387			-0.04	0.298	0.413
	FR1 n26	20M	BPSK	1	1	Right Cheek	0mm	Ant 0	ECI1	Main PA	166300	831.5	-	25.16	25.70	1.132			-0.18	0.258	0.292
	FR1 n26	20M	BPSK	50	28	Right Cheek	0mm	Ant 0	ECI1	Main PA	166300	831.5	-	25.08	25.70	1.153			0.01	0.269	0.310
	FR1 n26	20M	BPSK	1	1	Right Tilted	0mm	Ant 0	ECI1	Main PA	166300	831.5	-	25.16	25.70	1.132			-0.01	0.168	0.190
	FR1 n26	20M	BPSK	50	28	Right Tilted	0mm	Ant 0	ECI1	Main PA	166300	831.5	-	25.08	25.70	1.153			0.14	0.165	0.190
	FR1 n26	20M	BPSK	1	1	Left Cheek	0mm	Ant 0	ECI1	Main PA	166300	831.5	-	25.16	25.70	1.132			-0.17	0.254	0.288
	FR1 n26	20M	BPSK	50	28	Left Cheek	0mm	Ant 0	ECI1	Main PA	166300	831.5	-	25.08	25.70	1.153			-0.16	0.257	0.296
	FR1 n26	20M	BPSK	1	1	Left Tilted	0mm	Ant 0	ECI1	Main PA	166300	831.5	-	25.16	25.70	1.132			0.09	0.122	0.138
	FR1 n26	20M	BPSK	50	28	Left Tilted	0mm	Ant 0	ECI1	Main PA	166300	831.5	-	25.08	25.70	1.153			-0.15	0.119	0.137
	FR1 n5	20M	BPSK	50	28	Right Cheek	0mm	Ant 0	ECI1-1	Other PA	167300	836.5	1	24.39	25.50	1.291			0.06	0.229	0.296
	FR1 n26	20M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI1	Main PA	166300	831.5	-	21.63	22.20	1.14			-0.15	0.587	0.669
	FR1 n26	20M	BPSK	50	28	Right Cheek	0mm	Ant 1	ECI1	Main PA	166300	831.5	-	21.58	22.20	1.153			0.04	0.525	0.605
	FR1 n26	20M	BPSK	1	1	Right Tilted	0mm	Ant 1	ECI1	Main PA	166300	831.5	-	21.63	22.20	1.14			0.00	0.113	0.129
	FR1 n26	20M	BPSK	50	28	Right Tilted	0mm	Ant 1	ECI1	Main PA	166300	831.5	-	21.58	22.20	1.153			0.15	0.091	0.105
19	FR1 n26	20M	BPSK	1	1	Left Cheek	0mm	Ant 1	ECI1	Main PA	166300	831.5	-	21.63	22.20	1.14			0.01	0.885	1.009
	FR1 n26	20M	BPSK	50	28	Left Cheek	0mm	Ant 1	ECI1	Main PA	166300	831.5	-	21.58	22.20	1.153			0.01	0.778	0.897
	FR1 n26	20M	BPSK	100	0	Left Cheek	0mm	Ant 1	ECI1	Main PA	166300	831.5	-	21.50	22.20	1.175			0.08	0.703	0.826
	FR1 n26	20M	BPSK	1	1	Left Tilted	0mm	Ant 1	ECI1	Main PA	166300	831.5	-	21.63	22.20	1.14			-0.05	0.137	0.156
	FR1 n26	20M	BPSK	50	28	Left Tilted	0mm	Ant 1	ECI1	Main PA	166300	831.5	-	21.58	22.20	1.153			-0.07	0.118	0.136
	FR1 n5	20M	BPSK	1	1	Left Cheek	0mm	Ant 1	ECI1-1	Other PA	167300	836.5	1	21.63	22.20	1.14			0.06	0.811	0.925
	FR1 n66	40M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI1	Main PA	349000	1745	-	17.48	18.20	1.18			-0.07	0.710	0.838
	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 2	ECI1	Main PA	349000	1745	-	17.41	18.20	1.199			-0.02	0.743	0.891
	FR1 n66	40M	BPSK	216	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	349000	1745	-	17.34	18.20	1.219			0.03	0.711	0.867
	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 2	ECI1-1	Other PA	349000	1745	-	17.40	18.20	1.202			-0.02	0.730	0.877
	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 2	ECI1-2	Other PA-1	349000	1745	-	17.35	18.50	1.303			-0.04	0.460	0.599
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI1	Main PA	349000	1745	-	17.48	18.20	1.18			0.16	0.253	0.299
	FR1 n66	40M	BPSK	108	54	Right Tilted	0mm	Ant 2	ECI1	Main PA	349000	1745	-	17.41	18.20	1.199			0.00	0.266	0.319
	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 2	ECI1	Main PA	349000	1745	-	17.48	18.20	1.18			0.02	0.221	0.261
	FR1 n66	40M	BPSK	108	54	Left Cheek	0mm	Ant 2	ECI1	Main PA	349000	1745	-	17.41	18.20	1.199			0.02	0.231	0.277
	FR1 n66	40M	BPSK	1	1	Left Tilted	0mm	Ant 2	ECI1	Main PA	349000	1745	-	17.48	18.20	1.18			-0.09	0.134	0.158
	FR1 n66	40M	BPSK	108	54	Left Tilted	0mm	Ant 2	ECI1	Main PA	349000	1745	-	17.41	18.20	1.199			0.13	0.138	0.165
	FR1 n66	40M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI1	Main PA	349000	1745	0	15.11	16.20	1.285			0.18	0.585	0.752
	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 3	ECI1	Main PA	349000	1745	0	15.08	16.20	1.294			-0.16	0.612	0.792
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI1	Main PA	349000	1745	0	15.11	16.20	1.285			0.09	0.631	0.811
	FR1 n66	40M	BPSK	108	54	Right Tilted	0mm	Ant 3	ECI1	Main PA	349000	1745	0	15.08	16.20	1.294			0.01	0.749	0.969
	FR1 n66	40M	BPSK	216	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	349000	1745	0	14.93	16.20	1.34			0.12	0.608	0.815
	FR1 n66	40M	BPSK	108	54	Right Tilted	0mm	Ant 3	ECI1-1	Other PA	349000	1745	0	14.87	15.70	1.211			0.01	0.636	0.770
	FR1 n66	40M	BPSK	108	54	Right Tilted	0mm	Ant 3	ECI1-2	Other PA-1	349000	1745	0	15.21	16.50	1.346			-0.14	0.387	0.521
	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI1	Main PA	349000	1745	0	15.11	16.20	1.285			-0.04	0.478	0.614
	FR1 n66	40M	BPSK	108	54	Left Cheek	0mm	Ant 3	ECI1	Main PA	349000	1745	0	15.08	16.20	1.294			-0.09	0.493	0.638
	FR1 n66	40M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI1	Main PA	349000	1745	0	15.11	16.20	1.285			-0.04	0.	



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	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 4	ECI1-2	Other PA-1	349000	1745	-	22.39	24.00	1.449			-0.08	0.120	0.174
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 4	ECI1	Main PA	349000	1745	-	24.42	25.50	1.282			-0.17	0.101	0.129
	FR1 n66	40M	BPSK	108	54	Right Tilted	0mm	Ant 4	ECI1	Main PA	349000	1745	-	24.39	25.50	1.291			0.02	0.094	0.121
	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 4	ECI1	Main PA	349000	1745	-	24.42	25.50	1.282			0.13	0.142	0.182
	FR1 n66	40M	BPSK	108	54	Left Cheek	0mm	Ant 4	ECI1	Main PA	349000	1745	-	24.39	25.50	1.291			-0.07	0.126	0.163
	FR1 n66	40M	BPSK	1	1	Left Tilted	0mm	Ant 4	ECI1	Main PA	349000	1745	-	24.42	25.50	1.282			0.16	0.095	0.122
	FR1 n66	40M	BPSK	108	54	Left Tilted	0mm	Ant 4	ECI1	Main PA	349000	1745	-	24.39	25.50	1.291			-0.04	0.081	0.105
	FR1 n66	40M	BPSK	1	1	Right Cheek	0mm	Ant 5	ECI1	Main PA	349000	1745	8	17.05	18.50	1.396			-0.14	0.491	0.685
	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 5	ECI1	Main PA	349000	1745	8	16.88	18.50	1.452			0.14	0.490	0.711
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI1	Main PA	349000	1745	8	17.05	18.50	1.396			-0.06	0.067	0.094
	FR1 n66	40M	BPSK	108	54	Right Tilted	0mm	Ant 5	ECI1	Main PA	349000	1745	8	16.88	18.50	1.452			0.04	0.076	0.110
	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI1	Main PA	349000	1745	8	17.05	18.50	1.396			0.08	0.626	0.874
20	FR1 n66	40M	BPSK	108	54	Left Cheek	0mm	Ant 5	ECI1	Main PA	349000	1745	8	16.88	18.50	1.452			0.01	0.713	1.035
	FR1 n66	40M	BPSK	216	0	Left Cheek	0mm	Ant 5	ECI1	Main PA	349000	1745	8	16.87	18.50	1.455			0.13	0.651	0.947
	FR1 n66	40M	BPSK	108	54	Left Cheek	0mm	Ant 5	ECI1-1	Other PA	349000	1745	8	17.18	18.50	1.355			0.01	0.663	0.898
	FR1 n66	40M	BPSK	108	54	Left Cheek	0mm	Ant 5	ECI1-2	Other PA-1	349000	1745	8	17.29	18.50	1.321			-0.10	0.422	0.557
	FR1 n66	40M	BPSK	1	1	Left Tilted	0mm	Ant 5	ECI1	Main PA	349000	1745	8	17.05	18.50	1.396			-0.02	0.105	0.147
	FR1 n66	40M	BPSK	108	54	Left Tilted	0mm	Ant 5	ECI1	Main PA	349000	1745	8	16.88	18.50	1.452			0.15	0.113	0.164
	FR1 n71	20M	BPSK	1	1	Right Cheek	0mm	Ant 0	ECI1	Main PA	136100	680.5	2	24.23	25.00	1.194			-0.15	0.078	0.093
	FR1 n71	20M	BPSK	50	28	Right Cheek	0mm	Ant 0	ECI1	Main PA	136100	680.5	2	24.22	25.00	1.197			0.12	0.094	0.113
	FR1 n71	20M	BPSK	1	1	Right Tilted	0mm	Ant 0	ECI1	Main PA	136100	680.5	2	24.23	25.00	1.194			-0.02	0.049	0.059
	FR1 n71	20M	BPSK	50	28	Right Tilted	0mm	Ant 0	ECI1	Main PA	136100	680.5	2	24.22	25.00	1.197			-0.18	0.060	0.072
	FR1 n71	20M	BPSK	1	1	Left Cheek	0mm	Ant 0	ECI1	Main PA	136100	680.5	2	24.23	25.00	1.194			-0.07	0.080	0.096
	FR1 n71	20M	BPSK	50	28	Left Cheek	0mm	Ant 0	ECI1	Main PA	136100	680.5	2	24.22	25.00	1.197			0.01	0.096	0.115
	FR1 n71	20M	BPSK	1	1	Left Tilted	0mm	Ant 0	ECI1	Main PA	136100	680.5	2	24.23	25.00	1.194			-0.12	0.001	0.001
	FR1 n71	20M	BPSK	50	28	Left Tilted	0mm	Ant 0	ECI1	Main PA	136100	680.5	2	24.22	25.00	1.197			-0.17	0.052	0.062
	FR1 n71	20M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI1	Main PA	136100	680.5	-	22.87	23.70	1.211			0.00	0.463	0.561
	FR1 n71	20M	BPSK	50	28	Right Cheek	0mm	Ant 1	ECI1	Main PA	136100	680.5	-	22.85	23.70	1.216			-0.15	0.608	0.739
	FR1 n71	20M	BPSK	1	1	Right Tilted	0mm	Ant 1	ECI1	Main PA	136100	680.5	-	22.87	23.70	1.211			0.14	0.085	0.103
	FR1 n71	20M	BPSK	50	28	Right Tilted	0mm	Ant 1	ECI1	Main PA	136100	680.5	-	22.85	23.70	1.216			-0.17	0.113	0.137
	FR1 n71	20M	BPSK	1	1	Left Cheek	0mm	Ant 1	ECI1	Main PA	136100	680.5	-	22.87	23.70	1.211			-0.18	0.611	0.740
21	FR1 n71	20M	BPSK	50	28	Left Cheek	0mm	Ant 1	ECI1	Main PA	136100	680.5	-	22.85	23.70	1.216			-0.01	0.799	0.972
	FR1 n71	20M	BPSK	100	0	Left Cheek	0mm	Ant 1	ECI1	Main PA	136100	680.5	-	22.80	23.70	1.23			-0.09	0.705	0.867
	FR1 n71	20M	BPSK	1	1	Left Tilted	0mm	Ant 1	ECI1	Main PA	136100	680.5	-	22.87	23.70	1.211			-0.11	0.101	0.122
	FR1 n71	20M	BPSK	50	28	Left Tilted	0mm	Ant 1	ECI1	Main PA	136100	680.5	-	22.85	23.70	1.216			-0.06	0.139	0.169
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI1	Main PA	518598	2592.99	-	16.99	17.20	1.05			-0.08	0.825	0.866
	FR1 n41	100M	BPSK	135	69	Right Cheek	0mm	Ant 2	ECI1	Main PA	518598	2592.99	-	16.95	17.20	1.059			-0.11	0.753	0.797
	FR1 n41	100M	BPSK	270	0	Right Cheek	0mm	Ant 2	ECI1	Main PA	518598	2592.99	-	16.82	17.20	1.091			0.16	0.755	0.824
	FR1 n41	100M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI1	Main PA	518598	2592.99	-	16.99	17.20	1.05			0.06	0.335	0.352
	FR1 n41	100M	BPSK	135	69	Right Tilted	0mm	Ant 2	ECI1	Main PA	518598	2592.99	-	16.95	17.20	1.059			0.08	0.303	0.321
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 2	ECI1	Main PA	518598	2592.99	-	16.99	17.20	1.05			0.16	0.369	0.387
	FR1 n41	100M	BPSK	135	69	Left Cheek	0mm	Ant 2	ECI1	Main PA	518598	2592.99	-	16.95	17.20	1.059			0.10	0.416	0.441
	FR1 n41	100M	BPSK	1	1	Left Tilted	0mm	Ant 2	ECI1	Main PA	518598	2592.99	-	16.99	17.20	1.05			0.05	0.153	0.161
	FR1 n41	100M	BPSK	135	69	Left Tilted	0mm	Ant 2	ECI1	Main PA	518598	2592.99	-	16.95	17.20	1.059			-0.16	0.138	0.146
	FR1 n41 HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI1	Main PA	518598	2592.99	-	19.98	20.50	1.127	50.0	1.0	0.05	0.873	0.984
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI1	Main PA	518598	2592.99	-	16.94	17.20	1.062			-0.02	0.625	0.664
	FR1 n41	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI1	Main PA	518598	2592.99	-	16.88	17.20	1.076			-0.07	0.621	0.668
	FR1 n41	100M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI1	Main PA	518598	2592.99	-	16.94	17.20	1.062			0.07	0.750	0.797
	FR1 n41	100M	BPSK	135	69	Right Tilted	0mm	Ant 3	ECI1	Main PA	518598	2592.99	-	16.88	17.20	1.076			0.12	0.782	0.841
	FR1 n41	100M	BPSK	270	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	518598	2592.99	-	16.78	17.20	1.102			-0.07	0.756	0.833
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI1	Main PA	518598	2592.99	-	16.94	17.20	1.062			-0.16	0.410	0.435
	FR1 n41	100M	BPSK	135	69	Left Cheek	0mm	Ant 3	ECI1	Main PA	518598	2592.99	-	16.88	17.20	1.076			-0.07	0.391	0.421
	FR1 n41	100M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI1	Main PA	518598	2592.99	-	16.94	17.20	1.062			0.11	0.486	0.516
	FR1 n41	100M	BPSK	135	69	Left Tilted	0mm	Ant 3	ECI1	Main PA	518598	2592.99	-	16.88	17.20	1.076			-0.11	0.459	0.494
	FR1 n41 HPUE	100M	BPSK	135	69	Right Tilted	0mm	Ant 3	ECI1	Main PA	518598	2592.99	-	19.95	21.00	1.274	50.0	1.0	0.01	0.819	1.043
	FR1 n41 HPUE	100M	BPSK	270	0	Right Tilted	0mm	Ant 3	ECI1	Main PA	518598	2592.99	-	19.83	21.00	1.309	50.0	1.0	0.06	0.811	1.062
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 4	ECI1	Main PA	518598	2592.99	-	24.48	25.70	1.324			-0.03	0.093	0.123
	FR1 n41	100M	BPSK	135	69	Right Cheek	0mm	Ant 4	ECI1	Main PA	518598	2592.99	-	24.36	25.70	1.361			-0.08	0.090	0.122
	FR1 n41	100M	BPSK	1	1	Right Tilted	0mm	Ant 4	ECI1	Main PA	518598	2592.99	-	24.48	25.70	1.324			0.10	0.071	0.094
	FR1 n41	100M	BPSK	135	69	Right Tilted	0mm	Ant 4	ECI1	Main PA	518598	2592.99	-	24.36	25.70	1.361			0.02	0.068	0.093
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	ECI1	Main PA	518598	2592.99	-	24.48	25.70	1.324			0.02	0.173	0.229
	FR1 n41	100M	BPSK	135	69	Left Cheek	0mm	Ant 4	ECI1	Main PA	518598	2592.99	-	24.36	25.70	1.361			0.05	0.165	0.225
	FR1 n41	100M	BPSK	1	1	Left Tilted	0mm	Ant 4	ECI1	Main PA	518598	2592.99	-	24.48	25.70	1.324			0.16	0.053	0.070
	FR1 n41	100M	BPSK	135	69	Left Tilted	0mm	Ant 4	ECI1	Main PA	518598	2592.99	-	24.36	25.70	1.361			-0.16	0.047	0.064
	FR1 n41 HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	ECI1	Main PA	518598	2592.99	-	25.87	27.00	1.297	50.0	1.0	0.05	0.115	0.149
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 5	ECI1	Main PA	518598	2592.99	10	17.16	18.50	1.361			0.12	0.369	0.502
	FR1 n41	100M	BPSK	135	69	Right Cheek	0mm	Ant 5	ECI1	Main PA	518598	2592.99	10	16.96	18.50	1.426			-0.13	0.332	0.473
	FR1 n41	100M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI1	Main PA	518598	2592.99	10	17.16	18.50	1.361			-0.08	0.115	0.157
	FR1 n41	100M	BPSK	135	69																



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	FR1 n41	100M	BPSK	270	0	Left Cheek	0mm	Ant 5	ECI1	Main PA	518598	2592.99	10	16.74	18.50	1.5			-0.11	0.591	0.887
	FR1 n41	100M	BPSK	1	1	Left Tilted	0mm	Ant 5	ECI1	Main PA	518598	2592.99	10	17.16	18.50	1.361			0.16	0.236	0.321
	FR1 n41	100M	BPSK	135	69	Left Tilted	0mm	Ant 5	ECI1	Main PA	518598	2592.99	10	16.96	18.50	1.426			0.19	0.232	0.331
22	FR1 n41 HPUE	100M	BPSK	135	69	Left Cheek	0mm	Ant 5	ECI1	Main PA	518598	2592.99	10	20.03	21.50	1.403	50.0	1.0	0.03	0.761	1.068
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 6	ECI1	Main PA	641666	3624.99	-	14.67	15.00	1.079			-0.08	0.300	0.324
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 6	ECI1	Main PA	641666	3624.99	-	14.62	15.00	1.091			0.14	0.289	0.315
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 6	ECI1	Main PA	641666	3624.99	-	14.67	15.00	1.079			0.11	0.370	0.399
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 6	ECI1	Main PA	641666	3624.99	-	14.62	15.00	1.091			0.08	0.353	0.385
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 6	ECI1	Main PA	641666	3624.99	-	14.67	15.00	1.079			-0.15	0.550	0.593
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 6	ECI1	Main PA	641666	3624.99	-	14.62	15.00	1.091			0.05	0.542	0.591
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI1	Main PA	641666	3624.99	-	14.67	15.00	1.079			0.05	0.748	0.807
23	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI1	Main PA	638000	3570	-	14.61	15.00	1.094			-0.02	0.829	0.907
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI1	Main PA	645332	3679.98	-	14.63	15.00	1.089			0.00	0.639	0.696
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 6	ECI1	Main PA	641666	3624.99	-	14.62	15.00	1.091			-0.04	0.696	0.759
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 6	ECI1	Main PA	638000	3570	-	14.46	15.00	1.132			0.02	0.776	0.878
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 6	ECI1	Main PA	645332	3679.98	-	14.48	15.00	1.127			0.13	0.603	0.680
	FR1 n48	40M	BPSK	100	0	Left Tilted	0mm	Ant 6	ECI1	Main PA	641666	3624.99	-	14.52	15.00	1.117			0.18	0.700	0.782
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 7	ECI1	Main PA	641666	3624.99	-	15.58	16.50	1.236			-0.10	0.402	0.497
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 7	ECI1	Main PA	641666	3624.99	-	15.54	16.50	1.247			0.11	0.382	0.476
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 7	ECI1	Main PA	641666	3624.99	-	15.58	16.50	1.236			-0.02	0.102	0.126
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 7	ECI1	Main PA	641666	3624.99	-	15.54	16.50	1.247			-0.04	0.107	0.133
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 7	ECI1	Main PA	641666	3624.99	-	15.58	16.50	1.236			-0.07	0.176	0.218
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 7	ECI1	Main PA	641666	3624.99	-	15.54	16.50	1.247			-0.18	0.171	0.213
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 7	ECI1	Main PA	641666	3624.99	-	15.58	16.50	1.236			0.03	0.069	0.085
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 7	ECI1	Main PA	641666	3624.99	-	15.54	16.50	1.247			-0.19	0.055	0.069
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 8	ECI1	Main PA	641666	3624.99	-	16.46	17.50	1.271			-0.01	0.107	0.136
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 8	ECI1	Main PA	641666	3624.99	-	16.42	17.50	1.282			0.12	0.104	0.133
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 8	ECI1	Main PA	641666	3624.99	-	16.46	17.50	1.271			-0.02	0.069	0.088
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 8	ECI1	Main PA	641666	3624.99	-	16.42	17.50	1.282			0.08	0.065	0.083
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 8	ECI1	Main PA	641666	3624.99	-	16.46	17.50	1.271			0.11	0.580	0.737
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 8	ECI1	Main PA	638000	3570	-	16.38	17.50	1.294			0.06	0.665	0.861
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 8	ECI1	Main PA	645332	3679.98	-	16.40	17.50	1.288			-0.04	0.516	0.665
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 8	ECI1	Main PA	641666	3624.99	-	16.42	17.50	1.282			0.14	0.541	0.694
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 8	ECI1	Main PA	638000	3570	-	16.36	17.50	1.3			0.01	0.596	0.775
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 8	ECI1	Main PA	645332	3679.98	-	16.37	17.50	1.297			-0.10	0.494	0.641
	FR1 n48	40M	BPSK	100	0	Left Cheek	0mm	Ant 8	ECI1	Main PA	641666	3624.99	-	16.22	17.50	1.343			-0.03	0.523	0.702
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 8	ECI1	Main PA	641666	3624.99	-	16.46	17.50	1.271			-0.06	0.214	0.272
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 8	ECI1	Main PA	641666	3624.99	-	16.42	17.50	1.282			0.16	0.201	0.258
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 9	ECI1	Main PA	641666	3624.99	-	14.76	16.00	1.33			0.02	0.615	0.818
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 9	ECI1	Main PA	638000	3570	-	14.70	16.00	1.349			0.11	0.653	0.881
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 9	ECI1	Main PA	645332	3679.98	-	14.75	16.00	1.334			-0.06	0.628	0.838
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 9	ECI1	Main PA	641666	3624.99	-	14.73	16.00	1.34			-0.05	0.591	0.792
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 9	ECI1	Main PA	638000	3570	-	14.64	16.00	1.368			-0.03	0.611	0.836
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 9	ECI1	Main PA	645332	3679.98	-	14.68	16.00	1.355			0.01	0.575	0.779
	FR1 n48	40M	BPSK	100	0	Right Cheek	0mm	Ant 9	ECI1	Main PA	641666	3624.99	-	14.66	16.00	1.361			0.05	0.590	0.803
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 9	ECI1	Main PA	641666	3624.99	-	14.76	16.00	1.33			-0.03	0.510	0.678
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 9	ECI1	Main PA	638000	3570	-	14.70	16.00	1.349			-0.03	0.523	0.706
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 9	ECI1	Main PA	645332	3679.98	-	14.75	16.00	1.334			-0.12	0.516	0.688
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 9	ECI1	Main PA	641666	3624.99	-	14.73	16.00	1.34			-0.15	0.475	0.637
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 9	ECI1	Main PA	638000	3570	-	14.64	16.00	1.368			-0.12	0.467	0.639
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 9	ECI1	Main PA	645332	3679.98	-	14.68	16.00	1.355			0.14	0.464	0.629
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 9	ECI1	Main PA	641666	3624.99	-	14.76	16.00	1.33			0.10	0.191	0.254
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 9	ECI1	Main PA	641666	3624.99	-	14.73	16.00	1.34			-0.02	0.178	0.239
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 9	ECI1	Main PA	641666	3624.99	-	14.76	16.00	1.33			0.18	0.213	0.283
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 9	ECI1	Main PA	641666	3624.99	-	14.73	16.00	1.34			0.11	0.193	0.259
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 6	ECI1	Main PA	633332	3499.98	2	15.66	16.00	1.081			0.09	0.311	0.336
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 6	ECI1	Main PA	633332	3499.98	2	15.62	16.00	1.091			-0.18	0.288	0.314
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 6	ECI1	Main PA	633332	3499.98	2	15.66	16.00	1.081			0.01	0.368	0.398
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 6	ECI1	Main PA	633332	3499.98	2	15.62	16.00	1.091			0.09	0.362	0.395
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 6	ECI1	Main PA	633332	3499.98	2	15.66	16.00	1.081			-0.10	0.655	0.708
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 6	ECI1	Main PA	633332	3499.98	2	15.62	16.00	1.091			-0.04	0.571	0.623
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI1	Main PA	633332	3499.98	2	15.66	16.00	1.081			-0.03	0.772	0.835
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 6	ECI1	Main PA	633332	3499.98	2	15.62	16.00	1.091			0.05	0.694	0.757
	FR1 n77	100M	BPSK	270	0	Left Tilted	0mm	Ant 6	ECI1	Main PA	633332	3499.98	2	15.52	16.00	1.117			-0.19	0.687	0.767
	FR1 n77 HPUE	100M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI1	Main PA	633332	3499.98	2	18.69	19.00	1.074	50.0	1.0	0.05	0.836	0.898
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 7	ECI1	Main PA	633332	3499.98	-	16.23	17.00	1.194			-0.12	0.379	0.453
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 7	ECI1	Main PA	633332	3499.98	-	16.18	17.00	1.208			0.11	0.449	0.542
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 7	ECI1	Main PA	633332	3499.98	-	16.23	17.00	1.194			-0.02	0.120	0.143
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant													



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	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 7	ECI1	Main PA	633332	3499.98	-	16.18	17.00	1.208			-0.09	0.062	0.075
	FR1 n77 HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 7	ECI1	Main PA	633332	3499.98	-	18.97	20.00	1.268	50.0	1.0	0.06	0.455	0.577
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	ECI1	Main PA	633332	3499.98	1C	13.06	14.00	1.242			0.06	0.133	0.165
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	ECI1	Main PA	633332	3499.98	1C	13.02	14.00	1.253			0.14	0.110	0.138
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 8	ECI1	Main PA	633332	3499.98	1C	13.06	14.00	1.242			-0.13	0.086	0.107
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 8	ECI1	Main PA	633332	3499.98	1C	13.02	14.00	1.253			-0.09	0.069	0.086
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	ECI1	Main PA	633332	3499.98	1C	13.06	14.00	1.242			0.17	0.750	0.932
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 8	ECI1	Main PA	633332	3499.98	1C	13.02	14.00	1.253			0.18	0.576	0.722
	FR1 n77	100M	BPSK	270	0	Left Cheek	0mm	Ant 8	ECI1	Main PA	633332	3499.98	1C	12.92	14.00	1.282			0.11	0.584	0.749
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 8	ECI1	Main PA	633332	3499.98	1C	13.06	14.00	1.242			-0.18	0.241	0.299
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 8	ECI1	Main PA	633332	3499.98	1C	13.02	14.00	1.253			-0.07	0.195	0.244
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 9	ECI1	Main PA	633332	3499.98	-	15.98	17.00	1.265			0.15	0.737	0.932
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 9	ECI1	Main PA	633332	3499.98	-	15.95	17.00	1.274			0.13	0.668	0.851
	FR1 n77	100M	BPSK	270	0	Right Cheek	0mm	Ant 9	ECI1	Main PA	633332	3499.98	-	15.87	17.00	1.297			0.00	0.667	0.865
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 9	ECI1	Main PA	633332	3499.98	-	15.98	17.00	1.265			0.13	0.608	0.769
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 9	ECI1	Main PA	633332	3499.98	-	15.95	17.00	1.274			0.06	0.600	0.764
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 9	ECI1	Main PA	633332	3499.98	-	15.98	17.00	1.265			-0.06	0.214	0.271
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 9	ECI1	Main PA	633332	3499.98	-	15.95	17.00	1.274			-0.08	0.229	0.292
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 9	ECI1	Main PA	633332	3499.98	-	15.98	17.00	1.265			-0.09	0.262	0.331
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 9	ECI1	Main PA	633332	3499.98	-	15.95	17.00	1.274			-0.06	0.267	0.340
	FR1 n77 HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 9	ECI1	Main PA	633332	3499.98	-	19.09	20.00	1.233	50.0	1.0	0.01	0.784	0.967
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 6	ECI1	Main PA	656000	3840	2	15.59	16.00	1.099			-0.06	0.141	0.155
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 6	ECI1	Main PA	656000	3840	2	15.40	16.00	1.148			-0.16	0.138	0.158
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 6	ECI1	Main PA	656000	3840	2	15.59	16.00	1.099			0.13	0.169	0.186
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 6	ECI1	Main PA	656000	3840	2	15.40	16.00	1.148			-0.10	0.162	0.186
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 6	ECI1	Main PA	656000	3840	2	15.59	16.00	1.099			-0.13	0.249	0.274
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 6	ECI1	Main PA	656000	3840	2	15.40	16.00	1.148			-0.04	0.241	0.277
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI1	Main PA	656000	3840	2	15.59	16.00	1.099			0.17	0.313	0.344
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 6	ECI1	Main PA	656000	3840	2	15.40	16.00	1.148			0.18	0.307	0.352
	FR1 n77 HPUE	100M	BPSK	135	69	Left Tilted	0mm	Ant 6	ECI1	Main PA	656000	3840	2	18.65	19.00	1.084	50.0	1.0	0.02	0.300	0.325
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 7	ECI1	Main PA	656000	3840	-	16.25	17.00	1.189			0.12	0.438	0.521
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 7	ECI1	Main PA	656000	3840	-	16.20	17.00	1.202			0.09	0.412	0.495
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 7	ECI1	Main PA	656000	3840	-	16.25	17.00	1.189			-0.16	0.143	0.170
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 7	ECI1	Main PA	656000	3840	-	16.20	17.00	1.202			-0.11	0.123	0.148
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 7	ECI1	Main PA	656000	3840	-	16.25	17.00	1.189			0.08	0.194	0.231
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 7	ECI1	Main PA	656000	3840	-	16.20	17.00	1.202			-0.09	0.188	0.226
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 7	ECI1	Main PA	656000	3840	-	16.25	17.00	1.189			0.05	0.067	0.080
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 7	ECI1	Main PA	656000	3840	-	16.20	17.00	1.202			-0.01	0.051	0.061
	FR1 n77 HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 7	ECI1	Main PA	656000	3840	-	19.38	20.00	1.153	50.0	1.0	0.06	0.426	0.491
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	ECI1	Main PA	656000	3840	1C	13.09	14.00	1.233			0.07	0.080	0.099
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	ECI1	Main PA	656000	3840	1C	12.96	14.00	1.271			0.16	0.085	0.108
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 8	ECI1	Main PA	656000	3840	1C	13.09	14.00	1.233			-0.15	0.068	0.084
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 8	ECI1	Main PA	656000	3840	1C	12.96	14.00	1.271			-0.12	0.072	0.092
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	ECI1	Main PA	656000	3840	1C	13.09	14.00	1.233			-0.10	0.375	0.462
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 8	ECI1	Main PA	656000	3840	1C	12.96	14.00	1.271			-0.10	0.339	0.431
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 8	ECI1	Main PA	656000	3840	1C	13.09	14.00	1.233			-0.14	0.176	0.217
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 8	ECI1	Main PA	656000	3840	1C	12.96	14.00	1.271			0.09	0.183	0.233
	FR1 n77 HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	ECI1	Main PA	656000	3840	1C	15.85	17.00	1.303	50.0	1.0	0.01	0.350	0.456
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 9	ECI1	Main PA	656000	3840	-	16.12	17.00	1.225			-0.02	0.807	0.989
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 9	ECI1	Main PA	656000	3840	-	15.99	17.00	1.262			0.16	0.755	0.953
	FR1 n77	100M	BPSK	270	0	Right Cheek	0mm	Ant 9	ECI1	Main PA	656000	3840	-	15.88	17.00	1.294			-0.03	0.720	0.932
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 9	ECI1	Main PA	656000	3840	-	16.12	17.00	1.225			-0.18	0.609	0.746
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 9	ECI1	Main PA	656000	3840	-	15.99	17.00	1.262			-0.03	0.554	0.699
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 9	ECI1	Main PA	656000	3840	-	16.12	17.00	1.225			-0.10	0.250	0.306
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 9	ECI1	Main PA	656000	3840	-	15.99	17.00	1.262			-0.18	0.248	0.313
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 9	ECI1	Main PA	656000	3840	-	16.12	17.00	1.225			0.00	0.277	0.339
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 9	ECI1	Main PA	656000	3840	-	15.99	17.00	1.262			-0.00	0.271	0.342
24	FR1 n77 HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 9	ECI1	Main PA	656000	3840	-	19.18	20.00	1.208	50.0	1.0	0.01	0.842	1.017



Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WIFI/BT																
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 11	Head Standalone	11	2462	17.71	18	1.069	98.3	1.017	0.08	0.381	0.414
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 11	Head Standalone	11	2462	17.71	18	1.069	98.3	1.017	0.01	0.445	0.484
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 11	Head Standalone	11	2462	17.71	18	1.069	98.3	1.017	-0.11	0.933	1.014
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 11	Head Standalone	1	2412	17.54	18	1.112	98.3	1.017	0.03	0.746	0.844
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 11	Head Standalone	11	2462	17.71	18	1.069	98.3	1.017	-0.08	0.769	0.836
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 5	Head Standalone	6	2437	18.07	18.5	1.104	98.98	1.010	0.08	0.602	0.671
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 5	Head Standalone	6	2437	18.07	18.5	1.104	98.98	1.010	0.01	0.127	0.142
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	Head Standalone	6	2437	18.07	18.5	1.104	98.98	1.010	-0.02	0.939	1.047
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	Head Standalone	11	2462	18.05	18.5	1.109	98.98	1.010	-0.08	0.763	0.855
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5	Head Standalone	6	2437	18.07	18.5	1.104	98.98	1.010	-0.08	0.291	0.324
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 5	DBS&non DBS	6	2437	15.11	15.5	1.094	98.98	1.010	0.14	0.309	0.341
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 5	DBS&non DBS	6	2437	15.11	15.5	1.094	98.98	1.010	-0.17	0.065	0.072
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	DBS&non DBS	6	2437	15.11	15.5	1.094	98.98	1.010	0.17	0.472	0.522
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5	DBS&non DBS	6	2437	15.11	15.5	1.094	98.98	1.010	-0.05	0.149	0.165
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 5	WWAN+DBS&non DBS	6	2437	10.16	10.5	1.081	98.98	1.010	-0.03	0.091	0.099
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 5	WWAN+DBS&non DBS	6	2437	10.16	10.5	1.081	98.98	1.010	-0.03	0.019	0.021
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	WWAN+DBS&non DBS	6	2437	10.16	10.5	1.081	98.98	1.010	0.08	0.142	0.155
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5	WWAN+DBS&non DBS	6	2437	10.16	10.5	1.081	98.98	1.010	-0.07	0.115	0.126
	WLAN2.4GHz	802.11n-HT20 MCS0	Right Cheek	0mm	Ant 11+5(11)	Head Standalone	11	2462	17.09	17.5	1.099	95.74	1.044	0.1	0.316	0.363
	WLAN2.4GHz	802.11n-HT20 MCS0	Right Tilted	0mm	Ant 11+5(11)	Head Standalone	11	2462	17.09	17.5	1.099	95.74	1.044	0.1	0.372	0.427
25	WLAN2.4GHz	802.11n-HT20 MCS0	Left Cheek	0mm	Ant 11+5(11)	Head Standalone	11	2462	17.09	17.5	1.099	95.74	1.044	-0.04	0.949	1.089
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Cheek	0mm	Ant 11+5(5)	Head Standalone	6	2437	16.58	17	1.102	95.74	1.044	-0.17	0.735	0.846
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Tilted	0mm	Ant 11+5(11)	Head Standalone	11	2462	17.09	17.5	1.099	95.74	1.044	-0.05	0.675	0.774
	WLAN2.4GHz	802.11n-HT20 MCS0	Right Cheek	0mm	Ant 11+5(11)	WWAN+DBS&non DBS	11	2462	10.52	11	1.117	95.74	1.044	0.05	0.072	0.084
	WLAN2.4GHz	802.11n-HT20 MCS0	Right Tilted	0mm	Ant 11+5(11)	WWAN+DBS&non DBS	11	2462	10.52	11	1.117	95.74	1.044	-0.11	0.085	0.099
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Cheek	0mm	Ant 11+5(11)	WWAN+DBS&non DBS	11	2462	10.52	11	1.117	95.74	1.044	-0.12	0.206	0.240
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Tilted	0mm	Ant 11+5(11)	WWAN+DBS&non DBS	11	2462	10.52	11	1.117	95.74	1.044	0.03	0.154	0.180
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+13(13)	Head Standalone	50	5250	14.08	14.5	1.102	93.57	1.069	0.1	0.420	0.495
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+13(13)	Head Standalone	50	5250	14.08	14.5	1.102	93.57	1.069	0.12	0.456	0.537
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+13(13)	Head Standalone	50	5250	14.08	14.5	1.102	93.57	1.069	-0.17	0.776	0.914
26	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+13(13)	Head Standalone	50	5250	14.08	14.5	1.102	93.57	1.069	0.01	0.879	1.035
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+13(13)	DBS&non DBS	50	5250	11.11	11.5	1.094	93.57	1.069	0.08	0.206	0.241
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+13(13)	DBS&non DBS	50	5250	11.11	11.5	1.094	93.57	1.069	0.01	0.224	0.262
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+13(13)	DBS&non DBS	50	5250	11.11	11.5	1.094	93.57	1.069	0.03	0.380	0.444
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+13(13)	DBS&non DBS	50	5250	11.11	11.5	1.094	93.57	1.069	-0.08	0.431	0.504
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+13(13)	WWAN+DBS&non DBS	50	5250	6.16	6.5	1.081	93.57	1.069	-0.18	0.065	0.075
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+13(13)	WWAN+DBS&non DBS	50	5250	6.16	6.5	1.081	93.57	1.069	0.02	0.070	0.081
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+13(13)	WWAN+DBS&non DBS	50	5250	6.16	6.5	1.081	93.57	1.069	0.16	0.119	0.138
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+13(13)	WWAN+DBS&non DBS	50	5250	6.16	6.5	1.081	93.57	1.069	-0.03	0.135	0.156
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+13(6)	Head Standalone	114	5570	13.61	14	1.094	93.57	1.069	0.17	0.413	0.483
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+13(6)	Head Standalone	114	5570	13.61	14	1.094	93.57	1.069	-0.05	0.512	0.599
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+13(6)	Head Standalone	114	5570	13.61	14	1.094	93.57	1.069	0.01	0.795	0.930
27	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+13(6)	Head Standalone	114	5570	13.61	14	1.094	93.57	1.069	0.07	0.879	1.028
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+13(6)	DBS&non DBS	114	5570	10.64	11	1.086	93.57	1.069	-0.08	0.213	0.247
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+13(6)	DBS&non DBS	114	5570	10.64	11	1.086	93.57	1.069	0.1	0.264	0.306
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+13(6)	DBS&non DBS	114	5570	10.64	11	1.086	93.57	1.069	-0.18	0.410	0.476
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+13(6)	DBS&non DBS	114	5570	10.64	11	1.086	93.57	1.069	0.1	0.453	0.526
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	114	5570	5.69	6	1.074	93.57	1.069	0.07	0.065	0.075
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	114	5570	5.69	6	1.074	93.57	1.069	-0.06	0.080	0.092
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	114	5570	5.69	6	1.074	93.57	1.069	0.01	0.125	0.144
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	114	5570	5.69	6	1.074	93.57	1.069	-0.01	0.138	0.158



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	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+13(6)	Head Standalone	155	5775	14.81	15	1.045	96.6	1.035	0.1	0.413	0.447
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+13(6)	Head Standalone	155	5775	14.81	15	1.045	96.6	1.035	-0.17	0.514	0.556
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+13(6)	Head Standalone	155	5775	14.81	15	1.045	96.6	1.035	0.04	0.886	0.958
28	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+13(6)	Head Standalone	155	5775	14.81	15	1.045	96.6	1.035	-0.04	0.972	1.051
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+13(6)	DBS&non DBS	155	5775	11.83	12	1.040	96.6	1.035	0.12	0.210	0.226
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+13(6)	DBS&non DBS	155	5775	11.83	12	1.040	96.6	1.035	0.08	0.262	0.282
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+13(6)	DBS&non DBS	155	5775	11.83	12	1.040	96.6	1.035	-0.17	0.451	0.485
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+13(6)	DBS&non DBS	155	5775	11.83	12	1.040	96.6	1.035	-0.03	0.485	0.522
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	155	5775	6.88	7	1.028	96.6	1.035	0.08	0.062	0.066
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	155	5775	6.88	7	1.028	96.6	1.035	0.01	0.078	0.083
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	155	5775	6.88	7	1.028	96.6	1.035	0.03	0.134	0.143
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	155	5775	6.88	7	1.028	96.6	1.035	-0.08	0.147	0.156
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 11	Head Standalone	39	2441	16.63	18	1.371	76.86	1.084	0.05	0.205	0.305
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 11	Head Standalone	39	2441	16.63	18	1.371	76.86	1.084	0.06	0.259	0.385
29	Bluetooth	1Mbps	Left Cheek	0mm	Ant 11	Head Standalone	39	2441	16.63	18	1.371	76.86	1.084	-0.04	0.445	0.661
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 11	Head Standalone	39	2441	16.63	18	1.371	76.86	1.084	-0.09	0.419	0.623
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 11	DBS&non DBS	0	2402	15.6	17	1.380	76.86	1.084	0.01	0.153	0.229
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 11	DBS&non DBS	0	2402	15.6	17	1.380	76.86	1.084	0.1	0.193	0.289
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 11	DBS&non DBS	0	2402	15.6	17	1.380	76.86	1.084	-0.17	0.332	0.497
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 11	DBS&non DBS	0	2402	15.6	17	1.380	76.86	1.084	0.04	0.313	0.468
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 11+5(11)	WWAN+DBS&non DBS	0	2402	8.72	10.5	1.507	76.87	1.084	0.12	0.001	0.002
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 11+5(11)	WWAN+DBS&non DBS	0	2402	8.72	10.5	1.507	76.87	1.084	0.08	0.003	0.005
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 11+5(11)	WWAN+DBS&non DBS	0	2402	8.72	10.5	1.507	76.87	1.084	-0.17	0.055	0.090
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 11+5(11)	WWAN+DBS&non DBS	0	2402	8.72	10.5	1.507	76.87	1.084	-0.03	0.067	0.109
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 5	Head Standalone	0	2402	16.45	18	1.429	76.87	1.084	-0.08	0.174	0.270
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 5	Head Standalone	0	2402	16.45	18	1.429	76.87	1.084	0.13	0.001	0.002
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 5	Head Standalone	0	2402	16.45	18	1.429	76.87	1.084	-0.06	0.341	0.528
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 5	Head Standalone	0	2402	16.45	18	1.429	76.87	1.084	0.12	0.089	0.138
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 11+5(5)	WWAN+DBS&non DBS	0	2402	9.69	11.5	1.517	76.87	1.084	-0.08	0.001	0.002
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 11+5(5)	WWAN+DBS&non DBS	0	2402	9.69	11.5	1.517	76.87	1.084	0.1	0.001	0.002
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 11+5(5)	WWAN+DBS&non DBS	0	2402	9.69	11.5	1.517	76.87	1.084	-0.18	0.063	0.104
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 11+5(5)	WWAN+DBS&non DBS	0	2402	9.69	11.5	1.517	76.87	1.084	0.1	0.001	0.002



Plot No.	Band	BW (MHz)	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11be-EHT320 MCS0	Right Cheek	0mm	Ant 6+13(13)	Head Standalone	31	6105	14.60	15.00	1.096	86.48	1.156	-0.14	0.361	0.457	3.06
	WLAN6GHz	802.11be-EHT320 MCS0	Right Tilted	0mm	Ant 6+13(13)	Head Standalone	31	6105	14.60	15.00	1.096	86.48	1.156	-0.04	0.390	0.494	3.25
	WLAN6GHz	802.11be-EHT320 MCS0	Left Cheek	0mm	Ant 6+13(13)	Head Standalone	31	6105	14.60	15.00	1.096	86.48	1.156	0.01	0.573	0.726	4.15
30	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(13)	Head Standalone	31	6105	14.60	15.00	1.096	86.48	1.156	-0.09	0.837	1.060	5.55
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	Head Standalone	63	6265	13.41	13.50	1.021	86.48	1.156	-0.04	0.421	0.497	3.15
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	Head Standalone	95	6425	14.15	14.50	1.084	86.48	1.156	-0.02	0.326	0.409	2.44
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(13)	Head Standalone	127	6585	13.02	13.50	1.117	86.48	1.156	0.06	0.564	0.728	3.77
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	Head Standalone	159	6745	13.62	14.00	1.091	86.48	1.156	-0.08	0.554	0.699	3.63
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	Head Standalone	191	6905	12.57	13.50	1.238	86.48	1.156	0.06	0.445	0.637	3.05
	WLAN6GHz	802.11be-EHT320 MCS0	Right Cheek	0mm	Ant 6+13(6)	DBS&non DBS	95	6425	14.15	14.50	1.084	86.48	1.156	0.08	0.142	0.178	1.37
	WLAN6GHz	802.11be-EHT320 MCS0	Right Tilted	0mm	Ant 6+13(6)	DBS&non DBS	95	6425	14.15	14.50	1.084	86.48	1.156	0.01	0.167	0.209	1.46
	WLAN6GHz	802.11be-EHT320 MCS0	Left Cheek	0mm	Ant 6+13(6)	DBS&non DBS	95	6425	14.15	14.50	1.084	86.48	1.156	0.03	0.232	0.291	1.85
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	DBS&non DBS	95	6425	14.15	14.50	1.084	86.48	1.156	-0.02	0.326	0.409	2.44
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	DBS&non DBS	31	6105	11.52	12.00	1.117	86.48	1.156	-0.07	0.417	0.538	2.91
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	DBS&non DBS	63	6265	13.41	13.50	1.021	86.48	1.156	-0.04	0.421	0.497	3.15
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(13)	DBS&non DBS	127	6585	13.02	13.50	1.117	86.48	1.156	0.06	0.380	0.491	2.84
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	DBS&non DBS	159	6745	13.16	13.50	1.081	86.48	1.156	0.06	0.372	0.465	2.78
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	DBS&non DBS	191	6905	12.57	13.50	1.238	86.48	1.156	0.02	0.391	0.560	2.92
	WLAN6GHz	802.11be-EHT320 MCS0	Right Cheek	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	191	6905	8.61	9.00	1.094	86.48	1.156	-0.04	0.050	0.063	0.368
	WLAN6GHz	802.11be-EHT320 MCS0	Right Tilted	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	191	6905	8.61	9.00	1.094	86.48	1.156	0.07	0.053	0.067	0.391
	WLAN6GHz	802.11be-EHT320 MCS0	Left Cheek	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	191	6905	8.61	9.00	1.094	86.48	1.156	0.02	0.075	0.095	0.5
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	191	6905	8.61	9.00	1.094	86.48	1.156	-0.08	0.090	0.114	0.665
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	31	6105	6.57	7.00	1.104	86.48	1.156	-0.04	0.120	0.153	0.887
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	63	6265	5.51	6.00	1.119	86.48	1.156	0.08	0.096	0.124	0.71
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	95	6425	6.27	6.50	1.054	86.48	1.156	0.01	0.094	0.115	0.695
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(6)	WWAN+DBS&non DBS	127	6585	8.01	8.50	1.119	86.48	1.156	0.03	0.115	0.149	0.85
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 6+13(13)	WWAN+DBS&non DBS	159	6745	8.27	8.50	1.054	86.48	1.156	-0.08	0.102	0.124	0.754



16.2 Hotspot SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 4 Tx slots	Front	10mm	Ant 0	ECI5	Main PA	189	836.4	-	26.65	28.00	1.365	-0.09	0.206	0.281
	GSM850	GPRS 4 Tx slots	Back	10mm	Ant 0	ECI5	Main PA	189	836.4	-	26.65	28.00	1.365	0.03	0.245	0.334
	GSM850	GPRS 4 Tx slots	Left Side	10mm	Ant 0	ECI5	Main PA	189	836.4	-	26.65	28.00	1.365	-0.17	0.095	0.130
	GSM850	GPRS 4 Tx slots	Right Side	10mm	Ant 0	ECI5	Main PA	189	836.4	-	26.65	28.00	1.365	-0.00	0.375	0.512
	GSM850	GPRS 4 Tx slots	Top Side	10mm	Ant 0	ECI5	Main PA	189	836.4	-	26.65	28.00	1.365	-0.04	0.001	0.001
	GSM850	GPRS 4 Tx slots	Bottom Side	10mm	Ant 0	ECI5	Main PA	189	836.4	-	26.65	28.00	1.365	-0.14	0.165	0.225
	GSM850	GPRS 4 Tx slots	Front	10mm	Ant 1	ECI5	Main PA	189	836.4	-	22.47	24.00	1.422	0.15	0.358	0.509
	GSM850	GPRS 4 Tx slots	Back	10mm	Ant 1	ECI5	Main PA	189	836.4	-	22.47	24.00	1.422	0.01	0.403	0.573
31	GSM850	GPRS 4 Tx slots	Left Side	10mm	Ant 1	ECI5	Main PA	189	836.4	-	22.47	24.00	1.422	-0.09	0.471	0.670
	GSM850	GPRS 4 Tx slots	Right Side	10mm	Ant 1	ECI5	Main PA	189	836.4	-	22.47	24.00	1.422	0.03	0.001	0.001
	GSM850	GPRS 4 Tx slots	Top Side	10mm	Ant 1	ECI5	Main PA	189	836.4	-	22.47	24.00	1.422	-0.17	0.001	0.001
	GSM850	GPRS 4 Tx slots	Bottom Side	10mm	Ant 1	ECI5	Main PA	189	836.4	-	22.47	24.00	1.422	-0.18	0.001	0.001
	GSM1900	GPRS 4 Tx slots	Front	10mm	Ant 2	ECI5	Main PA	661	1880	-	20.71	21.50	1.199	0.05	0.123	0.147
	GSM1900	GPRS 4 Tx slots	Back	10mm	Ant 2	ECI5	Main PA	661	1880	-	20.71	21.50	1.199	0.14	0.146	0.175
	GSM1900	GPRS 4 Tx slots	Left Side	10mm	Ant 2	ECI5	Main PA	661	1880	-	20.71	21.50	1.199	0.06	0.196	0.235
	GSM1900	GPRS 4 Tx slots	Right Side	10mm	Ant 2	ECI5	Main PA	661	1880	-	20.71	21.50	1.199	0.15	0.001	0.001
	GSM1900	GPRS 4 Tx slots	Top Side	10mm	Ant 2	ECI5	Main PA	661	1880	-	20.71	21.50	1.199	-0.02	0.063	0.076
	GSM1900	GPRS 4 Tx slots	Bottom Side	10mm	Ant 2	ECI5	Main PA	661	1880	-	20.71	21.50	1.199	0.16	0.001	0.001
	GSM1900	GPRS 4 Tx slots	Front	10mm	Ant 4	ECI5	Main PA	661	1880	-	22.79	24.00	1.321	-0.04	0.214	0.283
	GSM1900	GPRS 4 Tx slots	Back	10mm	Ant 4	ECI5	Main PA	661	1880	-	22.79	24.00	1.321	-0.07	0.277	0.366
	GSM1900	GPRS 4 Tx slots	Left Side	10mm	Ant 4	ECI5	Main PA	661	1880	-	22.79	24.00	1.321	0.04	0.081	0.107
	GSM1900	GPRS 4 Tx slots	Right Side	10mm	Ant 4	ECI5	Main PA	661	1880	-	22.79	24.00	1.321	0.12	0.001	0.001
	GSM1900	GPRS 4 Tx slots	Top Side	10mm	Ant 4	ECI5	Main PA	661	1880	-	22.79	24.00	1.321	0.05	0.001	0.001
32	GSM1900	GPRS 4 Tx slots	Bottom Side	10mm	Ant 4	ECI5	Main PA	661	1880	-	22.79	24.00	1.321	0.02	0.466	0.616

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	10mm	Ant 2	ECI5	Main PA	9400	1880	-	16.48	17.50	1.265	0.05	0.182	0.230
	WCDMA II	RMC 12.2Kbps	Back	10mm	Ant 2	ECI5	Main PA	9400	1880	-	16.48	17.50	1.265	0.15	0.222	0.281
	WCDMA II	RMC 12.2Kbps	Left Side	10mm	Ant 2	ECI5	Main PA	9400	1880	-	16.48	17.50	1.265	-0.05	0.288	0.364
	WCDMA II	RMC 12.2Kbps	Right Side	10mm	Ant 2	ECI5	Main PA	9400	1880	-	16.48	17.50	1.265	-0.15	0.001	0.001
	WCDMA II	RMC 12.2Kbps	Top Side	10mm	Ant 2	ECI5	Main PA	9400	1880	-	16.48	17.50	1.265	0.17	0.082	0.104
	WCDMA II	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	ECI5	Main PA	9400	1880	-	16.48	17.50	1.265	0.11	0.001	0.001
	WCDMA II	RMC 12.2Kbps	Front	10mm	Ant 4	ECI5	Main PA	9400	1880	-	19.65	21.00	1.365	-0.01	0.325	0.444
	WCDMA II	RMC 12.2Kbps	Back	10mm	Ant 4	ECI5	Main PA	9400	1880	-	19.65	21.00	1.365	-0.07	0.396	0.541
	WCDMA II	RMC 12.2Kbps	Left Side	10mm	Ant 4	ECI5	Main PA	9400	1880	-	19.65	21.00	1.365	0.07	0.113	0.154
	WCDMA II	RMC 12.2Kbps	Right Side	10mm	Ant 4	ECI5	Main PA	9400	1880	-	19.65	21.00	1.365	0.18	0.059	0.081
	WCDMA II	RMC 12.2Kbps	Top Side	10mm	Ant 4	ECI5	Main PA	9400	1880	-	19.65	21.00	1.365	0.11	0.001	0.001
33	WCDMA II	RMC 12.2Kbps	Bottom Side	10mm	Ant 4	ECI5	Main PA	9400	1880	-	19.65	21.00	1.365	-0.01	0.633	0.864
	WCDMA II	RMC 12.2Kbps	Bottom Side	10mm	Ant 4	ECI5	Main PA	9262	1852.4	-	19.62	21.00	1.374	0.05	0.585	0.804
	WCDMA II	RMC 12.2Kbps	Bottom Side	10mm	Ant 4	ECI5	Main PA	9538	1907.6	-	19.61	21.00	1.377	0.09	0.563	0.775
	WCDMA IV	RMC 12.2Kbps	Front	10mm	Ant 2	ECI5	Main PA	1413	1732.6	-	16.95	18.00	1.274	0.17	0.183	0.233
	WCDMA IV	RMC 12.2Kbps	Back	10mm	Ant 2	ECI5	Main PA	1413	1732.6	-	16.95	18.00	1.274	0.06	0.252	0.321
	WCDMA IV	RMC 12.2Kbps	Left Side	10mm	Ant 2	ECI5	Main PA	1413	1732.6	-	16.95	18.00	1.274	-0.01	0.394	0.502
	WCDMA IV	RMC 12.2Kbps	Right Side	10mm	Ant 2	ECI5	Main PA	1413	1732.6	-	16.95	18.00	1.274	0.15	0.001	0.001
	WCDMA IV	RMC 12.2Kbps	Top Side	10mm	Ant 2	ECI5	Main PA	1413	1732.6	-	16.95	18.00	1.274	0.15	0.061	0.078
	WCDMA IV	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	ECI5	Main PA	1413	1732.6	-	16.95	18.00	1.274	0.14	0.001	0.001
	WCDMA IV	RMC 12.2Kbps	Front	10mm	Ant 4	ECI5	Main PA	1413	1732.6	-	18.58	20.00	1.387	0.08	0.291	0.404
	WCDMA IV	RMC 12.2Kbps	Back	10mm	Ant 4	ECI5	Main PA	1413	1732.6	-	18.58	20.00	1.387	0.15	0.360	0.499
	WCDMA IV	RMC 12.2Kbps	Left Side	10mm	Ant 4	ECI5	Main PA	1413	1732.6	-	18.58	20.00	1.387	0.04	0.104	0.144
	WCDMA IV	RMC 12.2Kbps	Right Side	10mm	Ant 4	ECI5	Main PA	1413	1732.6	-	18.58	20.00	1.387	0.02	0.001	0.001
	WCDMA IV	RMC 12.2Kbps	Top Side	10mm	Ant 4	ECI5	Main PA	1413	1732.6	-	18.58	20.00	1.387	0.12	0.001	0.001
34	WCDMA IV	RMC 12.2Kbps	Bottom Side	10mm	Ant 4	ECI5	Main PA	1413	1732.6	-	18.58	20.00	1.387	-0.03	0.538	0.746
	WCDMA V	RMC 12.2Kbps	Front	10mm	Ant 0	ECI5	Main PA	4182	836.4	-	24.14	25.00	1.219	-0.06	0.291	0.355
	WCDMA V	RMC 12.2Kbps	Back	10mm	Ant 0	ECI5	Main PA	4182	836.4	-	24.14	25.00	1.219	0.19	0.356	0.434
	WCDMA V	RMC 12.2Kbps	Left Side	10mm	Ant 0	ECI5	Main PA	4182	836.4	-	24.14	25.00	1.219	0.13	0.090	0.110
	WCDMA V	RMC 12.2Kbps	Right Side	10mm	Ant 0	ECI5	Main PA	4182	836.4	-	24.14	25.00	1.219	-0.04	0.429	0.523
	WCDMA V	RMC 12.2Kbps	Top Side	10mm	Ant 0	ECI5	Main PA	4182	836.4	-	24.14	25.00	1.219	-0.06	0.001	0.001
	WCDMA V	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	ECI5	Main PA	4182	836.4	-	24.14	25.00	1.219	0.17	0.239	0.291



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	WCDMA V	RMC 12.2Kbps	Front	10mm	Ant 1	ECI5	Main PA	4182	836.4	-	20.06	21.20	1.3	-0.08	0.433	0.563
	WCDMA V	RMC 12.2Kbps	Back	10mm	Ant 1	ECI5	Main PA	4182	836.4	-	20.06	21.20	1.3	0.09	0.462	0.601
35	WCDMA V	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECI5	Main PA	4182	836.4	-	20.06	21.20	1.3	-0.01	0.581	0.755
	WCDMA V	RMC 12.2Kbps	Right Side	10mm	Ant 1	ECI5	Main PA	4182	836.4	-	20.06	21.20	1.3	0.13	0.001	0.001
	WCDMA V	RMC 12.2Kbps	Top Side	10mm	Ant 1	ECI5	Main PA	4182	836.4	-	20.06	21.20	1.3	-0.02	0.001	0.001
	WCDMA V	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	ECI5	Main PA	4182	836.4	-	20.06	21.20	1.3	-0.13	0.001	0.001

[LTE SAR]

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.28	17.70	1.102			0.06	0.219	0.241
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.25	17.70	1.109			-0.04	0.213	0.236
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.28	17.70	1.102			-0.15	0.283	0.312
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.25	17.70	1.109			0.03	0.280	0.311
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.28	17.70	1.102			-0.09	0.414	0.456
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.25	17.70	1.109			-0.05	0.429	0.476
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.28	17.70	1.102			0.02	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.25	17.70	1.109			-0.13	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Top Side	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.28	17.70	1.102			-0.00	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Top Side	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.25	17.70	1.109			0.01	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.28	17.70	1.102			0.13	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	ECI5	Main PA	21100	2535	-	17.25	17.70	1.109			0.06	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.78	18.20	1.102			0.00	0.163	0.180
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.75	18.20	1.109			0.08	0.174	0.193
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.78	18.20	1.102			-0.08	0.232	0.256
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.75	18.20	1.109			0.18	0.229	0.254
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.78	18.20	1.102			-0.14	0.227	0.250
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.75	18.20	1.109			-0.07	0.220	0.244
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.78	18.20	1.102			-0.02	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.75	18.20	1.109			-0.08	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Top Side	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.78	18.20	1.102			0.01	0.396	0.436
	LTE Band 7	20M	QPSK	50	0	Top Side	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.75	18.20	1.109			-0.15	0.384	0.426
	LTE Band 7	20M	QPSK	1	0	Bottom Side	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.78	18.20	1.102			0.05	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Bottom Side	10mm	Ant 3	ECI5	Main PA	21100	2535	-	17.75	18.20	1.109			0.09	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.26	21.20	1.242			-0.19	0.279	0.347
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.21	21.20	1.256			-0.16	0.266	0.334
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.26	21.20	1.242			-0.06	0.401	0.498
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.21	21.20	1.256			0.14	0.371	0.466
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.26	21.20	1.242			-0.07	0.081	0.101
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.21	21.20	1.256			0.03	0.081	0.102
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.26	21.20	1.242			0.02	0.096	0.119
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.21	21.20	1.256			0.14	0.097	0.122
	LTE Band 7	20M	QPSK	1	0	Top Side	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.26	21.20	1.242			0.03	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Top Side	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.21	21.20	1.256			-0.12	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.26	21.20	1.242			-0.13	0.563	0.699
	LTE Band 7	20M	QPSK	50	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	21100	2535	-	20.21	21.20	1.256			0.01	0.555	0.697
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.53	18.50	1.25			-0.15	0.299	0.374
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.50	18.50	1.259			0.05	0.313	0.394
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.53	18.50	1.25			0.13	0.365	0.456
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.50	18.50	1.259			-0.03	0.360	0.453
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.53	18.50	1.25			0.12	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.50	18.50	1.259			0.13	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.53	18.50	1.25			-0.06	0.702	0.878
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	20850	2510	10	17.49	18.50	1.262			-0.09	0.596	0.752
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	21350	2560	10	17.47	18.50	1.268			0.05	0.681	0.864
36	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.50	18.50	1.259			-0.01	0.704	0.886
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	20850	2510	10	17.38	18.50	1.294			0.12	0.588	0.761
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	21350	2560	10	17.36	18.50	1.3			-0.05	0.668	0.868
	LTE Band 7	20M	QPSK	100	0	Right Side	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.48	18.50	1.265			0.03	0.654	0.827
	LTE Band 7	20M	QPSK	1	0	Top Side	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.53	18.50	1.25			-0.15	0.097	0.121
	LTE Band 7	20M	QPSK	50	0	Top Side	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.50	18.50	1.259			-0.02	0.091	0.115
	LTE Band 7	20M	QPSK	1	0	Bottom Side	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.53	18.50	1.25			-0.08	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Bottom Side	10mm	Ant 5	ECI5	Main PA	21100	2535	10	17.50	18.50	1.259			-0.01	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Front	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	24.56	25.50	1.242			-0.03	0.306	0.380
	LTE Band 12	10M	QPSK	25	0	Front	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	23.47	24.50	1.268			-0.11	0.252	0.320
	LTE Band 12	10M	QPSK	1	0	Back	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	24.56	25.50	1.242			-0.08	0.340	0.422
	LTE Band 12	10M	QPSK	25	0	Back	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	23.47	24.50	1.268			0.11	0.283	0.359
	LTE Band 12	10M	QPSK	1	0	Left Side	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	24.56	25.50	1.242			-0.14	0.128	0.159
	LTE Band 12	10M	QPSK	25	0	Left Side	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	23.47	24.50	1.268			-0.17	0.101	0.128
	LTE Band 12	10M	QPSK	1	0	Right Side	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	24.56	25.50	1.242			-0.00	0.518	0.643



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	LTE Band 12	10M	QPSK	25	0	Right Side	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	23.47	24.50	1.268			0.05	0.424	0.538
	LTE Band 12	10M	QPSK	1	0	Top Side	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	24.56	25.50	1.242			0.08	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	Top Side	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	23.47	24.50	1.268			-0.16	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Bottom Side	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	24.56	25.50	1.242			0.16	0.148	0.184
	LTE Band 12	10M	QPSK	25	0	Bottom Side	10mm	Ant 0	ECI5	Main PA	23095	707.5	-	23.47	24.50	1.268			0.05	0.118	0.150
	LTE Band 12	10M	QPSK	1	0	Front	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.72	22.20	1.117			0.04	0.460	0.514
	LTE Band 12	10M	QPSK	25	0	Front	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.67	22.20	1.113			-0.12	0.448	0.506
	LTE Band 12	10M	QPSK	1	0	Back	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.72	22.20	1.117			-0.03	0.492	0.550
	LTE Band 12	10M	QPSK	25	0	Back	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.67	22.20	1.113			0.12	0.506	0.572
37	LTE Band 12	10M	QPSK	1	0	Left Side	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.72	22.20	1.117			-0.02	0.698	0.780
	LTE Band 12	10M	QPSK	25	0	Left Side	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.67	22.20	1.113			-0.10	0.686	0.775
	LTE Band 12	10M	QPSK	1	0	Right Side	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.72	22.20	1.117			-0.08	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	Right Side	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.67	22.20	1.113			0.16	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Top Side	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.72	22.20	1.117			0.04	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	Top Side	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.67	22.20	1.113			0.17	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Bottom Side	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.72	22.20	1.117			-0.19	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	Bottom Side	10mm	Ant 1	ECI5	Main PA	23095	707.5	-	21.67	22.20	1.113			-0.08	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	Front	10mm	Ant 0	ECI5	Main PA	23230	782	-	24.75	25.50	1.189			-0.04	0.315	0.375
	LTE Band 13	10M	QPSK	25	0	Front	10mm	Ant 0	ECI5	Main PA	23230	782	-	23.87	24.50	1.156			-0.11	0.254	0.294
	LTE Band 13	10M	QPSK	1	0	Back	10mm	Ant 0	ECI5	Main PA	23230	782	-	24.75	25.50	1.189			0.07	0.355	0.422
	LTE Band 13	10M	QPSK	25	0	Back	10mm	Ant 0	ECI5	Main PA	23230	782	-	23.87	24.50	1.156			0.01	0.278	0.321
	LTE Band 13	10M	QPSK	1	0	Left Side	10mm	Ant 0	ECI5	Main PA	23230	782	-	24.75	25.50	1.189			-0.07	0.161	0.191
	LTE Band 13	10M	QPSK	25	0	Left Side	10mm	Ant 0	ECI5	Main PA	23230	782	-	23.87	24.50	1.156			-0.18	0.136	0.157
	LTE Band 13	10M	QPSK	1	0	Right Side	10mm	Ant 0	ECI5	Main PA	23230	782	-	24.75	25.50	1.189			-0.01	0.480	0.571
	LTE Band 13	10M	QPSK	25	0	Right Side	10mm	Ant 0	ECI5	Main PA	23230	782	-	23.87	24.50	1.156			0.17	0.375	0.434
	LTE Band 13	10M	QPSK	1	0	Top Side	10mm	Ant 0	ECI5	Main PA	23230	782	-	24.75	25.50	1.189			-0.08	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	Top Side	10mm	Ant 0	ECI5	Main PA	23230	782	-	23.87	24.50	1.156			-0.04	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	Bottom Side	10mm	Ant 0	ECI5	Main PA	23230	782	-	24.75	25.50	1.189			-0.13	0.191	0.227
	LTE Band 13	10M	QPSK	25	0	Bottom Side	10mm	Ant 0	ECI5	Main PA	23230	782	-	23.87	24.50	1.156			0.11	0.132	0.153
	LTE Band 13	10M	QPSK	1	0	Front	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.18	22.70	1.127			-0.13	0.443	0.499
	LTE Band 13	10M	QPSK	25	0	Front	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.12	22.70	1.143			-0.12	0.334	0.382
	LTE Band 13	10M	QPSK	1	0	Back	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.18	22.70	1.127			0.08	0.500	0.564
	LTE Band 13	10M	QPSK	25	0	Back	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.12	22.70	1.143			-0.14	0.388	0.443
38	LTE Band 13	10M	QPSK	1	0	Left Side	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.18	22.70	1.127			-0.02	0.688	0.775
	LTE Band 13	10M	QPSK	25	0	Left Side	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.12	22.70	1.143			-0.11	0.518	0.592
	LTE Band 13	10M	QPSK	1	0	Right Side	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.18	22.70	1.127			-0.06	0.028	0.032
	LTE Band 13	10M	QPSK	25	0	Right Side	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.12	22.70	1.143			0.11	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	Top Side	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.18	22.70	1.127			0.11	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	Top Side	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.12	22.70	1.143			-0.08	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	Bottom Side	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.18	22.70	1.127			-0.11	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	Bottom Side	10mm	Ant 1	ECI5	Main PA	23230	782	-	22.12	22.70	1.143			-0.06	0.001	0.001
	LTE Band 25	20M	QPSK	1	0	Front	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.30	18.00	1.175			-0.07	0.148	0.174
	LTE Band 25	20M	QPSK	50	0	Front	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.25	18.00	1.189			0.07	0.147	0.175
	LTE Band 25	20M	QPSK	1	0	Back	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.30	18.00	1.175			-0.00	0.181	0.213
	LTE Band 25	20M	QPSK	50	0	Back	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.25	18.00	1.189			-0.12	0.180	0.214
	LTE Band 25	20M	QPSK	1	0	Left Side	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.30	18.00	1.175			-0.11	0.250	0.294
	LTE Band 25	20M	QPSK	50	0	Left Side	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.25	18.00	1.189			-0.02	0.252	0.300
	LTE Band 25	20M	QPSK	1	0	Right Side	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.30	18.00	1.175			-0.18	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Right Side	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.25	18.00	1.189			-0.12	0.001	0.001
	LTE Band 25	20M	QPSK	1	0	Top Side	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.30	18.00	1.175			-0.03	0.076	0.089
	LTE Band 25	20M	QPSK	50	0	Top Side	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.25	18.00	1.189			-0.02	0.072	0.086
	LTE Band 25	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.30	18.00	1.175			-0.13	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	ECI5	Main PA	26340	1880	-	17.25	18.00	1.189			-0.19	0.001	0.001
	LTE Band 2	20M	QPSK	50	0	Left Side	10mm	Ant 2	ECI5-1	Other PA	18900	1880	-	17.28	18.50	1.324			0.02	0.218	0.289
	LTE Band 2	20M	QPSK	50	0	Left Side	10mm	Ant 2	ECI5-2	Other PA-1	18900	1880	-	17.21	18.00	1.199			0.09	0.235	0.282
	LTE Band 25	20M	QPSK	1	0	Front	10mm	Ant 3	ECI5	Main PA	26340	1880	1	17.02	18.50	1.406			0.13	0.223	0.314
	LTE Band 25	20M	QPSK	50	0	Front	10mm	Ant 3	ECI5	Main PA	26340	1880	1	16.95	18.50	1.429			0.05	0.230	0.329
	LTE Band 25	20M	QPSK	1	0	Back	10mm	Ant 3	ECI5	Main PA	26340	1880	1	17.02	18.50	1.406			-0.04	0.281	0.395
	LTE Band 25	20M	QPSK	50	0	Back	10mm	Ant 3	ECI5	Main PA	26340	1880	1	16.95	18.50	1.429			0.03	0.264	0.377
	LTE Band 25	20M	QPSK	1	0	Left Side	10mm	Ant 3	ECI5	Main PA	26340	1880	1	17.02	18.50	1.406			0.03	0.057	0.080
	LTE Band 25	20M	QPSK	50	0	Left Side	10mm	Ant 3	ECI5	Main PA	26340	1880	1	16.95	18.50	1.429			-0.07	0.051	0.073
	LTE Band 25	20M	QPSK	1	0	Right Side	10mm	Ant 3	ECI5	Main PA	26340	1880	1	17.02	18.50	1.406			0.13	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Right Side	10mm	Ant 3	ECI5	Main PA	26340	1880	1	16.95	18.50	1.429			-0.10	0.001	0.001
	LTE Band 25	20M	QPSK	1	0	Top Side	10mm	Ant 3	ECI5	Main PA	26340	1880	1	17.02	18.50	1.406			0.00	0.436	0.613
	LTE Band 25	20M	QPSK	50	0	Top Side	10mm	Ant 3	ECI5	Main PA	26340	1880	1	16.95	18.50	1.429			0.07	0.405	0.579
	LTE Band 25	20M	QPSK	1	0	Bottom Side	10mm	Ant 3	ECI5	Main PA	26340	1880	1	17.02	18.50	1.406			-0.06	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Bottom Side	10mm	Ant 3	ECI5	Main PA	26340	1880	1	16.95	18.50	1.429			-0.08	0.001	0.001
	LTE Band 2	20M	QPSK	1	0	Top Side	10mm	Ant 3	ECI5-1	Other PA	18900	1880	1	16.29	16.70	1.099			0.02	0.291	0.320
	LTE Band 2	20M	QPSK	1	0	Top Side	10mm	Ant 3	ECI5-2	Other PA-1	18900	1880	1	15.95	17.50	1.429			0.01	0.277	0.396
	LTE Band 2	20M	QPSK	1	0	Top Side	10mm	Ant 3	ECI5-1	Other PA	18900	1880	2	16.29	16.70	1.099			-0.06	0.161	0.177
	LTE Band 2	20M																			



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	LTE Band 25	20M	QPSK	1	0	Back	10mm	Ant 4	ECI5	Main PA	26340	1880	-	19.67	21.00	1.358			-0.10	0.391	0.531
	LTE Band 25	20M	QPSK	50	0	Back	10mm	Ant 4	ECI5	Main PA	26340	1880	-	19.63	21.00	1.371			-0.02	0.391	0.536
	LTE Band 25	20M	QPSK	1	0	Left Side	10mm	Ant 4	ECI5	Main PA	26340	1880	-	19.67	21.00	1.358			0.05	0.097	0.132
	LTE Band 25	20M	QPSK	50	0	Left Side	10mm	Ant 4	ECI5	Main PA	26340	1880	-	19.63	21.00	1.371			0.10	0.100	0.137
	LTE Band 25	20M	QPSK	1	0	Right Side	10mm	Ant 4	ECI5	Main PA	26340	1880	-	19.67	21.00	1.358			0.11	0.061	0.083
	LTE Band 25	20M	QPSK	50	0	Right Side	10mm	Ant 4	ECI5	Main PA	26340	1880	-	19.63	21.00	1.371			0.13	0.056	0.077
	LTE Band 25	20M	QPSK	1	0	Top Side	10mm	Ant 4	ECI5	Main PA	26340	1880	-	19.67	21.00	1.358			0.05	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Top Side	10mm	Ant 4	ECI5	Main PA	26340	1880	-	19.63	21.00	1.371			0.07	0.001	0.001
	LTE Band 25	20M	QPSK	1	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	26340	1880	-	19.67	21.00	1.358			-0.15	0.654	0.888
	LTE Band 25	20M	QPSK	1	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	26140	1860	-	19.66	21.00	1.361			-0.08	0.599	0.815
	LTE Band 25	20M	QPSK	1	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	26590	1905	-	19.65	21.00	1.365			-0.13	0.632	0.863
39	LTE Band 25	20M	QPSK	50	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	26340	1880	-	19.63	21.00	1.371			-0.02	0.657	0.901
	LTE Band 25	20M	QPSK	50	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	26140	1860	-	19.61	21.00	1.377			0.17	0.610	0.840
	LTE Band 25	20M	QPSK	50	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	26590	1905	-	19.59	21.00	1.384			-0.05	0.599	0.829
	LTE Band 25	20M	QPSK	100	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	26340	1880	-	19.50	21.00	1.413			-0.06	0.591	0.835
	LTE Band 2	20M	QPSK	50	0	Bottom Side	10mm	Ant 4	ECI5-1	Other PA	18900	1880	-	19.20	21.00	1.514			0.06	0.501	0.759
	LTE Band 2	20M	QPSK	50	0	Bottom Side	10mm	Ant 4	ECI5-2	Other PA-1	18900	1880	-	19.43	21.00	1.435			-0.18	0.359	0.515
	LTE Band 25	20M	QPSK	1	0	Front	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.12	18.50	1.374			0.18	0.189	0.260
	LTE Band 25	20M	QPSK	50	0	Front	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.08	18.50	1.387			-0.13	0.184	0.255
	LTE Band 25	20M	QPSK	1	0	Back	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.12	18.50	1.374			0.02	0.214	0.294
	LTE Band 25	20M	QPSK	50	0	Back	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.08	18.50	1.387			0.06	0.209	0.290
	LTE Band 25	20M	QPSK	1	0	Left Side	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.12	18.50	1.374			0.03	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Left Side	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.08	18.50	1.387			-0.09	0.001	0.001
	LTE Band 25	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.12	18.50	1.374			-0.04	0.387	0.532
	LTE Band 25	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.08	18.50	1.387			-0.01	0.389	0.540
	LTE Band 25	20M	QPSK	1	0	Top Side	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.12	18.50	1.374			0.09	0.073	0.100
	LTE Band 25	20M	QPSK	50	0	Top Side	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.08	18.50	1.387			-0.18	0.070	0.097
	LTE Band 25	20M	QPSK	1	0	Bottom Side	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.12	18.50	1.374			0.15	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Bottom Side	10mm	Ant 5	ECI5	Main PA	26340	1880	0	17.08	18.50	1.387			0.06	0.001	0.001
	LTE Band 2	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5-1	Other PA	18900	1880	0	16.65	18.50	1.531			0.06	0.295	0.452
	LTE Band 2	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5-2	Other PA-1	18900	1880	0	16.65	18.50	1.531			0.01	0.313	0.479
	LTE Band 26	15M	QPSK	1	0	Front	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.73	25.20	1.114			-0.18	0.309	0.344
	LTE Band 26	15M	QPSK	36	0	Front	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.15	24.70	1.135			0.09	0.274	0.311
	LTE Band 26	15M	QPSK	1	0	Back	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.73	25.20	1.114			-0.04	0.363	0.404
	LTE Band 26	15M	QPSK	36	0	Back	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.15	24.70	1.135			-0.12	0.318	0.361
	LTE Band 26	15M	QPSK	1	0	Left Side	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.73	25.20	1.114			-0.08	0.074	0.082
	LTE Band 26	15M	QPSK	36	0	Left Side	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.15	24.70	1.135			-0.15	0.068	0.077
	LTE Band 26	15M	QPSK	1	0	Right Side	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.73	25.20	1.114			-0.02	0.459	0.511
	LTE Band 26	15M	QPSK	36	0	Right Side	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.15	24.70	1.135			0.05	0.386	0.438
	LTE Band 26	15M	QPSK	1	0	Top Side	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.73	25.20	1.114			-0.13	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Top Side	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.15	24.70	1.135			0.06	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Bottom Side	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.73	25.20	1.114			-0.16	0.223	0.248
	LTE Band 26	15M	QPSK	36	0	Bottom Side	10mm	Ant 0	ECI5	Main PA	26865	831.5	-	24.15	24.70	1.135			0.11	0.210	0.238
	LTE Band 5	10M	QPSK	1	0	Right Side	10mm	Ant 0	ECI5-1	Other PA	20525	836.5	1	24.79	25.50	1.178			0.06	0.410	0.483
	LTE Band 5	10M	QPSK	1	0	Right Side	10mm	Ant 0	ECI5-1	Other PA	20525	836.5	4	24.79	25.50	1.178			-0.03	0.337	0.397
	LTE Band 26	15M	QPSK	1	0	Front	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.18	21.70	1.127			-0.08	0.442	0.498
	LTE Band 26	15M	QPSK	36	0	Front	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.12	21.70	1.143			0.05	0.349	0.399
	LTE Band 26	15M	QPSK	1	0	Back	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.18	21.70	1.127			0.03	0.476	0.536
	LTE Band 26	15M	QPSK	36	0	Back	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.12	21.70	1.143			-0.00	0.378	0.432
40	LTE Band 26	15M	QPSK	1	0	Left Side	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.18	21.70	1.127			0.01	0.628	0.708
	LTE Band 26	15M	QPSK	36	0	Left Side	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.12	21.70	1.143			0.02	0.482	0.551
	LTE Band 26	15M	QPSK	1	0	Right Side	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.18	21.70	1.127			-0.10	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Right Side	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.12	21.70	1.143			0.15	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Top Side	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.18	21.70	1.127			-0.13	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Top Side	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.12	21.70	1.143			0.09	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Bottom Side	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.18	21.70	1.127			-0.11	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Bottom Side	10mm	Ant 1	ECI5	Main PA	26865	831.5	-	21.12	21.70	1.143			-0.03	0.001	0.001
	LTE Band 5	10M	QPSK	1	0	Left Side	10mm	Ant 1	ECI5-1	Other PA	20525	836.5	1	20.59	21.20	1.151			0.05	0.552	0.635
	LTE Band 66	20M	QPSK	1	0	Front	10mm	Ant 2	ECI5	Main PA	132322	1745	-	17.64	18.20	1.138			-0.09	0.148	0.168
	LTE Band 66	20M	QPSK	50	0	Front	10mm	Ant 2	ECI5	Main PA	132322	1745	-	17.60	18.20	1.148			0.08	0.151	0.173
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 2	ECI5	Main PA	132322	1745	-	17.64	18.20	1.138			0.11	0.197	0.224
	LTE Band 66	20M	QPSK	50	0	Back	10mm	Ant 2	ECI5	Main PA	132322	1745	-	17.60	18.20	1.148			-0.17	0.199	0.228
	LTE Band 66	20M	QPSK	1	0	Left Side	10mm	Ant 2	ECI5	Main PA	132322	1745	-	17.64	18.20	1.138			-0.14	0.292	0.332
	LTE Band 66	20M	QPSK	50	0	Left Side	10mm	Ant 2	ECI5	Main PA	132322	1745	-	17.60	18.20	1.148			0.11	0.336	0.386
	LTE Band 66	20M	QPSK	50	0	Left Side	10mm	Ant 2	ECI5-1	Other PA	132322	1745	-	17.31	18.20	1.227			-0.02	0.313	0.384
	LTE Band 66	20M	QPSK	50	0	Left Side	10mm	Ant 2	ECI5-2	Other PA-1	132322	1745	-	17.54	18.50	1.247			0.01	0.210	0.262
	LTE Band 66	20M	QPSK	1	0	Right Side	10mm	Ant 2	ECI5	Main PA	132322	1745	-	17.64	18.20	1.138			-0.18	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Right Side	10mm	Ant 2	ECI5	Main PA	132322	1745	-	17.60	18.20	1.148			-0.00	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Top Side	10mm	Ant 2	ECI5	Main PA	132322	1745	-	17.64	18.20	1.138			0.12	0.094	0.107
	LTE Band 66	20M	QPSK	50	0	Top Side	10mm	Ant 2	ECI5	Main PA	132322	1745	-	17.60	18.20	1.					



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	LTE Band 66	20M	QPSK	50	0	Front	10mm	Ant 3	ECI5	Main PA	132322	1745	0	16.23	17.20	1.25			-0.00	0.233	0.291
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 3	ECI5	Main PA	132322	1745	0	16.25	17.20	1.245			0.08	0.264	0.329
	LTE Band 66	20M	QPSK	50	0	Back	10mm	Ant 3	ECI5	Main PA	132322	1745	0	16.23	17.20	1.25			0.06	0.266	0.333
	LTE Band 66	20M	QPSK	1	0	Left Side	10mm	Ant 3	ECI5	Main PA	132322	1745	0	16.25	17.20	1.245			-0.04	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Left Side	10mm	Ant 3	ECI5	Main PA	132322	1745	0	16.23	17.20	1.25			-0.00	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Right Side	10mm	Ant 3	ECI5	Main PA	132322	1745	0	16.25	17.20	1.245			-0.06	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Right Side	10mm	Ant 3	ECI5	Main PA	132322	1745	0	16.23	17.20	1.25			0.09	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Top Side	10mm	Ant 3	ECI5	Main PA	132322	1745	0	16.25	17.20	1.245			0.15	0.370	0.461
	LTE Band 66	20M	QPSK	50	0	Top Side	10mm	Ant 3	ECI5	Main PA	132322	1745	0	16.23	17.20	1.25			0.18	0.477	0.596
	LTE Band 66	20M	QPSK	50	0	Top Side	10mm	Ant 3	ECI5-1	Other PA	132322	1745	0	16.55	17.20	1.161			0.01	0.480	0.557
	LTE Band 66	20M	QPSK	50	0	Top Side	10mm	Ant 3	ECI5-2	Other PA-1	132322	1745	0	16.23	18.00	1.503			0.16	0.238	0.358
	LTE Band 66	20M	QPSK	1	0	Bottom Side	10mm	Ant 3	ECI5	Main PA	132322	1745	0	16.25	17.20	1.245			0.03	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Bottom Side	10mm	Ant 3	ECI5	Main PA	132322	1745	0	16.23	17.20	1.25			0.13	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Front	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.18	19.20	1.265			0.14	0.248	0.314
	LTE Band 66	20M	QPSK	50	0	Front	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.10	19.20	1.288			0.00	0.249	0.321
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.18	19.20	1.265			-0.10	0.313	0.396
	LTE Band 66	20M	QPSK	50	0	Back	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.10	19.20	1.288			0.10	0.311	0.401
	LTE Band 66	20M	QPSK	1	0	Left Side	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.18	19.20	1.265			-0.02	0.080	0.101
	LTE Band 66	20M	QPSK	50	0	Left Side	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.10	19.20	1.288			-0.19	0.084	0.108
	LTE Band 66	20M	QPSK	1	0	Right Side	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.18	19.20	1.265			-0.12	0.054	0.068
	LTE Band 66	20M	QPSK	50	0	Right Side	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.10	19.20	1.288			-0.06	0.054	0.070
	LTE Band 66	20M	QPSK	1	0	Top Side	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.18	19.20	1.265			0.12	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Top Side	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.10	19.20	1.288			-0.10	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.18	19.20	1.265			-0.08	0.417	0.528
	LTE Band 66	20M	QPSK	50	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	132322	1745	-	18.10	19.20	1.288			-0.02	0.409	0.527
	LTE Band 66	20M	QPSK	1	0	Bottom Side	10mm	Ant 4	ECI5-1	Other PA	132322	1745	-	18.03	18.70	1.167			-0.01	0.406	0.474
	LTE Band 66	20M	QPSK	1	0	Bottom Side	10mm	Ant 4	ECI5-2	Other PA-1	132322	1745	-	17.85	19.50	1.462			0.14	0.289	0.423
	LTE Band 66	20M	QPSK	1	0	Front	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.59	19.00	1.384			0.09	0.372	0.515
	LTE Band 66	20M	QPSK	50	0	Front	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.55	19.00	1.396			0.16	0.372	0.519
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.59	19.00	1.384			0.13	0.426	0.590
	LTE Band 66	20M	QPSK	50	0	Back	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.55	19.00	1.396			0.14	0.424	0.592
	LTE Band 66	20M	QPSK	1	0	Left Side	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.59	19.00	1.384			-0.10	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Left Side	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.55	19.00	1.396			0.15	0.001	0.001
41	LTE Band 66	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.59	19.00	1.384			-0.02	0.644	0.891
	LTE Band 66	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	132072	1720	9	17.53	19.00	1.403			0.15	0.622	0.873
	LTE Band 66	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	132572	1770	4	17.50	19.00	1.413			0.01	0.579	0.818
	LTE Band 66	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.55	19.00	1.396			-0.12	0.635	0.886
	LTE Band 66	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	132072	1720	9	17.48	19.00	1.419			0.09	0.610	0.866
	LTE Band 66	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	132572	1770	4	17.46	19.00	1.426			0.17	0.584	0.833
	LTE Band 66	20M	QPSK	100	0	Right Side	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.54	19.00	1.4			-0.07	0.385	0.539
	LTE Band 66	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5-1	Other PA	132322	1745	8	17.61	19.00	1.377			-0.03	0.614	0.845
	LTE Band 66	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5-2	Other PA-1	132322	1745	8	17.25	19.00	1.496			-0.07	0.415	0.621
	LTE Band 66	20M	QPSK	1	0	Top Side	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.59	19.00	1.384			-0.19	0.071	0.098
	LTE Band 66	20M	QPSK	50	0	Top Side	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.55	19.00	1.396			0.12	0.072	0.101
	LTE Band 66	20M	QPSK	1	0	Bottom Side	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.59	19.00	1.384			0.19	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Bottom Side	10mm	Ant 5	ECI5	Main PA	132322	1745	8	17.55	19.00	1.396			0.16	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	Front	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	24.12	25.00	1.225			0.14	0.146	0.179
	LTE Band 71	20M	QPSK	50	0	Front	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	23.17	24.00	1.211			0.09	0.130	0.157
	LTE Band 71	20M	QPSK	1	0	Back	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	24.12	25.00	1.225			0.18	0.169	0.207
	LTE Band 71	20M	QPSK	50	0	Back	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	23.17	24.00	1.211			-0.11	0.149	0.180
	LTE Band 71	20M	QPSK	1	0	Left Side	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	24.12	25.00	1.225			0.04	0.089	0.109
	LTE Band 71	20M	QPSK	50	0	Left Side	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	23.17	24.00	1.211			-0.02	0.072	0.087
	LTE Band 71	20M	QPSK	1	0	Right Side	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	24.12	25.00	1.225			0.00	0.308	0.377
	LTE Band 71	20M	QPSK	50	0	Right Side	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	23.17	24.00	1.211			0.03	0.265	0.321
	LTE Band 71	20M	QPSK	1	0	Top Side	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	24.12	25.00	1.225			0.03	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	Top Side	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	23.17	24.00	1.211			-0.10	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	24.12	25.00	1.225			0.12	0.072	0.088
	LTE Band 71	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	ECI5	Main PA	133297	680.5	2	23.17	24.00	1.211			0.13	0.006	0.007
	LTE Band 71	20M	QPSK	1	0	Front	10mm	Ant 1	ECI5	Main PA	133297	680.5	-	22.23	23.20	1.25			-0.10	0.469	0.586
	LTE Band 71	20M	QPSK	50	0	Front	10mm	Ant 1	ECI5	Main PA	133297	680.5	-	22.18	23.20	1.265			-0.15	0.406	0.514
	LTE Band 71	20M	QPSK	1	0	Back	10mm	Ant 1	ECI5	Main PA	133297	680.5	-	22.23	23.20	1.25			-0.18	0.504	0.630
	LTE Band 71	20M	QPSK	50	0	Back	10mm	Ant 1	ECI5	Main PA	133297	680.5	-	22.18	23.20	1.265			-0.18	0.450	0.569
42	LTE Band 71	20M	QPSK	1	0	Left Side	10mm	Ant 1	ECI5	Main PA	133297	680.5	-	22.23	23.20	1.25			-0.01	0.671	0.839
	LTE Band 71	20M	QPSK	50	0	Left Side	10mm	Ant 1	ECI5	Main PA	133297	680.5	-	22.18	23.20	1.265			-0.04	0.578	0.731
	LTE Band 71	20M	QPSK	100	0	Left Side	10mm	Ant 1	ECI5	Main PA	133297	680.5	-	22.16	23.20	1.271			0.06	0.584	0.742
	LTE Band 71	20M	QPSK	1	0	Right Side	10mm	Ant 1	ECI5	Main PA	133297	680.5	-	22.23	23.20	1.25			-0.06	0.062	0.078
	LTE Band 71	20M	QPSK	50	0	Right Side	10mm	Ant 1	ECI5	Main PA	133297	680.5	-	22.18	23.20	1.265			-0.14	0.046	0.058
	LTE Band 71	20M	QPSK	1	0	Top Side	10mm	Ant 1	ECI5	Main PA	133297	680.5	-	22.23	23.20	1.25			-0.11	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	Top Side	10mm	Ant 1	ECI5	Main PA	133297	680.5	-	22.18	23.20	1.265			0.02	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	Bottom Side	10mm	Ant 1													



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	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 2	ECI5	Main PA	40620	2593	-	19.30	19.70	1.096	62.9	1.006	0.02	0.247	0.272
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 2	ECI5	Main PA	40620	2593	-	19.26	19.70	1.107	62.9	1.006	-0.11	0.246	0.274
	LTE Band 41	20M	QPSK	1	0	Left Side	10mm	Ant 2	ECI5	Main PA	40620	2593	-	19.30	19.70	1.096	62.9	1.006	0.01	0.389	0.429
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 2	ECI5	Main PA	40620	2593	-	19.26	19.70	1.107	62.9	1.006	-0.16	0.382	0.425
	LTE Band 41	20M	QPSK	1	0	Right Side	10mm	Ant 2	ECI5	Main PA	40620	2593	-	19.30	19.70	1.096	62.9	1.006	0.08	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 2	ECI5	Main PA	40620	2593	-	19.26	19.70	1.107	62.9	1.006	0.18	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Top Side	10mm	Ant 2	ECI5	Main PA	40620	2593	-	19.30	19.70	1.096	62.9	1.006	0.17	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Top Side	10mm	Ant 2	ECI5	Main PA	40620	2593	-	19.26	19.70	1.107	62.9	1.006	0.08	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	ECI5	Main PA	40620	2593	-	19.30	19.70	1.096	62.9	1.006	0.14	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	ECI5	Main PA	40620	2593	-	19.26	19.70	1.107	62.9	1.006	-0.14	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Front	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.88	20.20	1.076	62.9	1.006	-0.16	0.147	0.159
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.81	20.20	1.094	62.9	1.006	-0.14	0.149	0.164
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.88	20.20	1.076	62.9	1.006	0.17	0.213	0.231
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.81	20.20	1.094	62.9	1.006	-0.10	0.214	0.236
	LTE Band 41	20M	QPSK	1	0	Left Side	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.88	20.20	1.076	62.9	1.006	-0.08	0.214	0.232
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.81	20.20	1.094	62.9	1.006	0.18	0.209	0.230
	LTE Band 41	20M	QPSK	1	0	Right Side	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.88	20.20	1.076	62.9	1.006	-0.06	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.81	20.20	1.094	62.9	1.006	0.05	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Top Side	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.88	20.20	1.076	62.9	1.006	-0.02	0.299	0.324
	LTE Band 41	20M	QPSK	50	0	Top Side	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.81	20.20	1.094	62.9	1.006	0.06	0.301	0.331
	LTE Band 41	20M	QPSK	1	0	Bottom Side	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.88	20.20	1.076	62.9	1.006	0.02	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Bottom Side	10mm	Ant 3	ECI5	Main PA	40620	2593	-	19.81	20.20	1.094	62.9	1.006	-0.17	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Front	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.05	22.00	1.245	62.9	1.006	-0.14	0.177	0.222
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.00	22.00	1.259	62.9	1.006	-0.18	0.180	0.228
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.05	22.00	1.245	62.9	1.006	-0.12	0.252	0.316
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.00	22.00	1.259	62.9	1.006	0.15	0.254	0.322
	LTE Band 41	20M	QPSK	1	0	Left Side	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.05	22.00	1.245	62.9	1.006	0.13	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.00	22.00	1.259	62.9	1.006	-0.15	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Right Side	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.05	22.00	1.245	62.9	1.006	-0.14	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.00	22.00	1.259	62.9	1.006	0.06	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Top Side	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.05	22.00	1.245	62.9	1.006	0.07	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Top Side	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.00	22.00	1.259	62.9	1.006	-0.18	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.05	22.00	1.245	62.9	1.006	-0.01	0.321	0.402
	LTE Band 41	20M	QPSK	50	0	Bottom Side	10mm	Ant 4	ECI5	Main PA	40620	2593	-	21.00	22.00	1.259	62.9	1.006	0.15	0.316	0.400
	LTE Band 41	20M	QPSK	1	0	Front	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.30	20.50	1.318	62.9	1.006	-0.01	0.202	0.268
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.25	20.50	1.334	62.9	1.006	0.02	0.198	0.266
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.30	20.50	1.318	62.9	1.006	0.15	0.235	0.312
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.25	20.50	1.334	62.9	1.006	-0.13	0.232	0.311
	LTE Band 41	20M	QPSK	1	0	Left Side	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.30	20.50	1.318	62.9	1.006	0.05	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.25	20.50	1.334	62.9	1.006	0.03	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.30	20.50	1.318	62.9	1.006	0.08	0.469	0.622
	LTE Band 41	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	39750	2506	10	19.27	20.50	1.327	62.9	1.006	0.03	0.312	0.417
	LTE Band 41	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	40185	2549.5	10	19.22	20.50	1.343	62.9	1.006	0.06	0.454	0.613
43	LTE Band 41	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	41055	2636.5	10	19.26	20.50	1.33	62.9	1.006	-0.03	0.477	0.638
	LTE Band 41	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	41490	2680	10	19.21	20.50	1.346	62.9	1.006	0.05	0.452	0.612
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.25	20.50	1.334	62.9	1.006	0.14	0.448	0.601
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	39750	2506	10	19.19	20.50	1.352	62.9	1.006	0.04	0.329	0.447
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	40185	2549.5	10	19.13	20.50	1.371	62.9	1.006	-0.01	0.442	0.610
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	41055	2636.5	10	19.18	20.50	1.355	62.9	1.006	0.07	0.446	0.608
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 5	ECI5	Main PA	41490	2680	10	19.13	20.50	1.371	62.9	1.006	-0.08	0.441	0.608
	LTE Band 41	20M	QPSK	1	0	Top Side	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.30	20.50	1.318	62.9	1.006	-0.12	0.068	0.090
	LTE Band 41	20M	QPSK	50	0	Top Side	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.25	20.50	1.334	62.9	1.006	-0.04	0.068	0.091
	LTE Band 41	20M	QPSK	1	0	Bottom Side	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.30	20.50	1.318	62.9	1.006	-0.09	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Bottom Side	10mm	Ant 5	ECI5	Main PA	40620	2593	10	19.25	20.50	1.334	62.9	1.006	-0.18	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Front	10mm	Ant 6	ECI5	Main PA	42590	3500	2	16.03	16.50	1.114	62.9	1.006	-0.08	0.148	0.166
	LTE Band 42	20M	QPSK	50	0	Front	10mm	Ant 6	ECI5	Main PA	42590	3500	2	15.88	16.50	1.153	62.9	1.006	0.15	0.146	0.169
	LTE Band 42	20M	QPSK	1	0	Back	10mm	Ant 6	ECI5	Main PA	42590	3500	2	16.03	16.50	1.114	62.9	1.006	0.17	0.156	0.175
	LTE Band 42	20M	QPSK	50	0	Back	10mm	Ant 6	ECI5	Main PA	42590	3500	2	15.88	16.50	1.153	62.9	1.006	-0.18	0.151	0.175
	LTE Band 42	20M	QPSK	1	0	Left Side	10mm	Ant 6	ECI5	Main PA	42590	3500	2	16.03	16.50	1.114	62.9	1.006	0.14	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Left Side	10mm	Ant 6	ECI5	Main PA	42590	3500	2	15.88	16.50	1.153	62.9	1.006	0.05	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Right Side	10mm	Ant 6	ECI5	Main PA	42590	3500	2	16.03	16.50	1.114	62.9	1.006	-0.13	0.145	0.162
	LTE Band 42	20M	QPSK	50	0	Right Side	10mm	Ant 6	ECI5	Main PA	42590	3500	2	15.88	16.50	1.153	62.9	1.006	-0.06	0.139	0.161
	LTE Band 42	20M	QPSK	1	0	Top Side	10mm	Ant 6	ECI5	Main PA	42590	3500	2	16.03	16.50	1.114	62.9	1.006	-0.02	0.352	0.394
	LTE Band 42	20M	QPSK	50	0	Top Side	10mm	Ant 6	ECI5	Main PA	42590	3500	2	15.88	16.50	1.153	62.9	1.006	-0.15	0.350	0.406
	LTE Band 42	20M	QPSK	1	0	Bottom Side	10mm	Ant 6	ECI5	Main PA	42590	3500	2	16.03	16.50	1.114	62.9	1.006	0.11	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Bottom Side	10mm	Ant 6	ECI5	Main PA	42590	3500	2	15.88	16.50	1.153	62.9				



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	LTE Band 42	20M	QPSK	50	0	Left Side	10mm	Ant 7	ECI5	Main PA	42590	3500	-	18.00	19.00	1.259	62.9	1.006	-0.02	0.652	0.826
	LTE Band 42	20M	QPSK	50	0	Left Side	10mm	Ant 7	ECI5	Main PA	42190	3460	-	17.89	19.00	1.291	62.9	1.006	0.16	0.611	0.794
	LTE Band 42	20M	QPSK	50	0	Left Side	10mm	Ant 7	ECI5	Main PA	42990	3540	-	17.85	19.00	1.303	62.9	1.006	0.08	0.569	0.746
	LTE Band 42	20M	QPSK	100	0	Left Side	10mm	Ant 7	ECI5	Main PA	42590	3500	-	17.96	19.00	1.271	62.9	1.006	-0.03	0.574	0.734
	LTE Band 42	20M	QPSK	1	0	Right Side	10mm	Ant 7	ECI5	Main PA	42590	3500	-	18.05	19.00	1.245	62.9	1.006	-0.05	0.005	0.006
	LTE Band 42	20M	QPSK	50	0	Right Side	10mm	Ant 7	ECI5	Main PA	42590	3500	-	18.00	19.00	1.259	62.9	1.006	0.14	0.005	0.006
	LTE Band 42	20M	QPSK	1	0	Top Side	10mm	Ant 7	ECI5	Main PA	42590	3500	-	18.05	19.00	1.245	62.9	1.006	-0.04	0.183	0.229
	LTE Band 42	20M	QPSK	50	0	Top Side	10mm	Ant 7	ECI5	Main PA	42590	3500	-	18.00	19.00	1.259	62.9	1.006	0.04	0.005	0.006
	LTE Band 42	20M	QPSK	1	0	Bottom Side	10mm	Ant 7	ECI5	Main PA	42590	3500	-	18.05	19.00	1.245	62.9	1.006	0.05	0.005	0.006
	LTE Band 42	20M	QPSK	50	0	Bottom Side	10mm	Ant 7	ECI5	Main PA	42590	3500	-	18.00	19.00	1.259	62.9	1.006	0.11	0.198	0.251
	LTE Band 42	20M	QPSK	1	0	Front	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.36	16.50	1.3	62.9	1.006	-0.18	0.139	0.182
	LTE Band 42	20M	QPSK	50	0	Front	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.32	16.50	1.312	62.9	1.006	0.17	0.136	0.180
	LTE Band 42	20M	QPSK	1	0	Back	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.36	16.50	1.3	62.9	1.006	0.15	0.134	0.175
	LTE Band 42	20M	QPSK	50	0	Back	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.32	16.50	1.312	62.9	1.006	0.15	0.133	0.176
	LTE Band 42	20M	QPSK	1	0	Left Side	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.36	16.50	1.3	62.9	1.006	-0.17	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Left Side	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.32	16.50	1.312	62.9	1.006	0.07	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Right Side	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.36	16.50	1.3	62.9	1.006	0.11	0.255	0.333
	LTE Band 42	20M	QPSK	50	0	Right Side	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.32	16.50	1.312	62.9	1.006	-0.06	0.249	0.329
	LTE Band 42	20M	QPSK	1	0	Top Side	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.36	16.50	1.3	62.9	1.006	-0.16	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Top Side	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.32	16.50	1.312	62.9	1.006	0.08	0.045	0.059
	LTE Band 42	20M	QPSK	1	0	Bottom Side	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.36	16.50	1.3	62.9	1.006	0.17	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Bottom Side	10mm	Ant 8	ECI5	Main PA	42590	3500	1C	15.32	16.50	1.312	62.9	1.006	0.05	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Front	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.50	19.00	1.413	62.9	1.006	0.01	0.140	0.199
	LTE Band 42	20M	QPSK	50	0	Front	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.46	19.00	1.426	62.9	1.006	0.02	0.138	0.198
	LTE Band 42	20M	QPSK	1	0	Back	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.50	19.00	1.413	62.9	1.006	-0.11	0.107	0.152
	LTE Band 42	20M	QPSK	50	0	Back	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.46	19.00	1.426	62.9	1.006	0.02	0.109	0.156
	LTE Band 42	20M	QPSK	1	0	Left Side	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.50	19.00	1.413	62.9	1.006	0.12	0.105	0.149
	LTE Band 42	20M	QPSK	50	0	Left Side	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.46	19.00	1.426	62.9	1.006	-0.09	0.104	0.149
	LTE Band 42	20M	QPSK	1	0	Right Side	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.50	19.00	1.413	62.9	1.006	0.12	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Right Side	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.46	19.00	1.426	62.9	1.006	-0.12	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Top Side	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.50	19.00	1.413	62.9	1.006	0.06	0.136	0.193
	LTE Band 42	20M	QPSK	50	0	Top Side	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.46	19.00	1.426	62.9	1.006	-0.05	0.140	0.201
	LTE Band 42	20M	QPSK	1	0	Bottom Side	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.50	19.00	1.413	62.9	1.006	0.08	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Bottom Side	10mm	Ant 9	ECI5	Main PA	42590	3500	-	17.46	19.00	1.426	62.9	1.006	0.02	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Front	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.57	17.00	1.104	62.9	1.006	0.18	0.078	0.087
	LTE Band 48	20M	QPSK	50	0	Front	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.48	17.00	1.127	62.9	1.006	0.06	0.078	0.088
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.57	17.00	1.104	62.9	1.006	0.11	0.081	0.090
	LTE Band 48	20M	QPSK	50	0	Back	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.48	17.00	1.127	62.9	1.006	0.16	0.082	0.093
	LTE Band 48	20M	QPSK	1	0	Left Side	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.57	17.00	1.104	62.9	1.006	-0.06	0.013	0.014
	LTE Band 48	20M	QPSK	50	0	Left Side	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.48	17.00	1.127	62.9	1.006	0.05	0.017	0.019
	LTE Band 48	20M	QPSK	1	0	Right Side	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.57	17.00	1.104	62.9	1.006	0.01	0.044	0.049
	LTE Band 48	20M	QPSK	50	0	Right Side	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.48	17.00	1.127	62.9	1.006	-0.06	0.044	0.050
	LTE Band 48	20M	QPSK	1	0	Top Side	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.57	17.00	1.104	62.9	1.006	-0.06	0.163	0.181
	LTE Band 48	20M	QPSK	50	0	Top Side	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.48	17.00	1.127	62.9	1.006	-0.07	0.163	0.185
	LTE Band 48	20M	QPSK	1	0	Bottom Side	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.57	17.00	1.104	62.9	1.006	0.15	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Bottom Side	10mm	Ant 6	ECI5	Main PA	55830	3609	2	16.48	17.00	1.127	62.9	1.006	-0.01	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Front	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.57	19.50	1.239	62.9	1.006	-0.18	0.118	0.147
	LTE Band 48	20M	QPSK	50	0	Front	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.54	19.50	1.247	62.9	1.006	-0.16	0.115	0.144
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.57	19.50	1.239	62.9	1.006	0.08	0.126	0.157
	LTE Band 48	20M	QPSK	50	0	Back	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.54	19.50	1.247	62.9	1.006	0.01	0.127	0.159
	LTE Band 48	20M	QPSK	1	0	Left Side	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.57	19.50	1.239	62.9	1.006	-0.02	0.173	0.216
	LTE Band 48	20M	QPSK	50	0	Left Side	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.54	19.50	1.247	62.9	1.006	0.12	0.166	0.208
	LTE Band 48	20M	QPSK	1	0	Right Side	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.57	19.50	1.239	62.9	1.006	0.11	0.053	0.066
	LTE Band 48	20M	QPSK	50	0	Right Side	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.54	19.50	1.247	62.9	1.006	0.05	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Top Side	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.57	19.50	1.239	62.9	1.006	0.11	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Top Side	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.54	19.50	1.247	62.9	1.006	0.15	0.040	0.050
	LTE Band 48	20M	QPSK	1	0	Bottom Side	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.57	19.50	1.239	62.9	1.006	-0.13	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Bottom Side	10mm	Ant 7	ECI5	Main PA	55830	3609	-	18.54	19.50	1.247	62.9	1.006	0.01	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Front	10mm	Ant 8	ECI5	Main PA	55830	3609	1C	17.28	18.50	1.324	62.9	1.006	0.07	0.162	0.216
	LTE Band 48	20M	QPSK	50	0	Front	10mm	Ant 8	ECI5	Main PA	55830	3609	1C	17.24	18.50	1.337	62.9	1.006	-0.07	0.147	0.198
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 8	ECI5	Main PA	55830	3609	1C	17.28	18.50	1.324	62.9	1.006	0.07	0.161	0.214
	LTE Band 48	20M	QPSK	50	0	Back	10mm	Ant 8	ECI5	Main PA	55830	3609	1C	17.24	18.50	1.337	62.9	1.006	-0.17	0.163	0.219
	LTE Band 48	20M	QPSK	1	0	Left Side	10mm	Ant 8	ECI5	Main PA	55830	3609	1C	17.28	18.50	1.324	62.9	1.006	0.02	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Left Side	10mm	Ant 8	ECI5	Main PA	55830	3609	1C	17.24	18.50	1.337	62.9	1.006	0.01	0.001	0.001
45	LTE Band 48	20M	QPSK	1	0	Right Side	10mm	Ant 8	ECI5	Main PA	55830	3609	1C	17.28	18.50	1.324	62.9	1.006	-0.12	0.311	0.414
	LTE Band 48	20M	QPSK	50	0	Right Side	10mm	Ant 8	ECI5	Main PA	55830	3609	1C	17.24	18.50	1.337	62.9	1.006	-0.0		



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LTE Band 48	20M	QPSK	50	0	Back	10mm	Ant 9	ECI5	Main PA	55830	3609	-	16.76	18.00	1.33	62.9	1.006	0.05	0.105	0.140
LTE Band 48	20M	QPSK	1	0	Left Side	10mm	Ant 9	ECI5	Main PA	55830	3609	-	16.80	18.00	1.318	62.9	1.006	0.04	0.095	0.126
LTE Band 48	20M	QPSK	50	0	Left Side	10mm	Ant 9	ECI5	Main PA	55830	3609	-	16.76	18.00	1.33	62.9	1.006	0.05	0.102	0.136
LTE Band 48	20M	QPSK	1	0	Right Side	10mm	Ant 9	ECI5	Main PA	55830	3609	-	16.80	18.00	1.318	62.9	1.006	0.00	0.001	0.001
LTE Band 48	20M	QPSK	50	0	Right Side	10mm	Ant 9	ECI5	Main PA	55830	3609	-	16.76	18.00	1.33	62.9	1.006	0.06	0.051	0.068
LTE Band 48	20M	QPSK	1	0	Top Side	10mm	Ant 9	ECI5	Main PA	55830	3609	-	16.80	18.00	1.318	62.9	1.006	0.03	0.118	0.156
LTE Band 48	20M	QPSK	50	0	Top Side	10mm	Ant 9	ECI5	Main PA	55830	3609	-	16.76	18.00	1.33	62.9	1.006	-0.11	0.121	0.162
LTE Band 48	20M	QPSK	1	0	Bottom Side	10mm	Ant 9	ECI5	Main PA	55830	3609	-	16.80	18.00	1.318	62.9	1.006	0.16	0.033	0.044
LTE Band 48	20M	QPSK	50	0	Bottom Side	10mm	Ant 9	ECI5	Main PA	55830	3609	-	16.76	18.00	1.33	62.9	1.006	-0.10	0.037	0.050

【UL CA】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	99	Left Side	10mm	Ant 2	ECI5	Main PA	21100+21298	2535+2554.8	-	17.2	17.7	1.122	100	1.000	0.06	0.410	0.46
	LTE Band 7	20M	QPSK	1	99	Top Side	10mm	Ant 3	ECI5	Main PA	21100+21298	2535+2554.8	-	17.66	18.2	1.132	100	1.000	0.06	0.378	0.428
	LTE Band 7	20M	QPSK	1	99	Bottom Side	10mm	Ant 4	ECI5	Main PA	21100+21298	2535+2554.8	-	20.24	21.2	1.247	100	1.000	0.06	0.549	0.685
	LTE Band 7	20M	QPSK	1	99	Right Side	10mm	Ant 5	ECI5	Main PA	21100+21298	2535+2554.8	10	17.43	18.5	1.279	100	1.000	0.06	0.679	0.868
	LTE Band 38	20M	QPSK	1	99	Left Side	10mm	Ant 2	ECI5	Main PA	37901+38099	2585.1+2604.9	-	19.15	19.7	1.135	62.9	1.006	0.14	0.370	0.422
	LTE Band 38	20M	QPSK	1	99	Top Side	10mm	Ant 3	ECI5	Main PA	37901+38099	2585.1+2604.9	-	19.78	20.2	1.102	62.9	1.006	-0.17	0.289	0.32
	LTE Band 38	20M	QPSK	1	99	Bottom Side	10mm	Ant 4	ECI5	Main PA	37901+38099	2585.1+2604.9	-	20.99	22	1.262	62.9	1.006	0.18	0.308	0.391
	LTE Band 38	20M	QPSK	1	0	Right Side	10mm	Ant 5	ECI5	Main PA	38150+37952	2610+2590.2	10	19.1	20.5	1.380	62.9	1.006	-0.05	0.442	0.614

【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7	50M	BPSK	1	1	Front	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.42	17.70	1.067			-0.09	0.256	0.273
	FR1 n7	50M	BPSK	135	68	Front	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.38	17.70	1.076			-0.09	0.251	0.270
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.42	17.70	1.067			-0.02	0.320	0.341
	FR1 n7	50M	BPSK	135	68	Back	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.38	17.70	1.076			-0.14	0.327	0.352
	FR1 n7	50M	BPSK	1	1	Left Side	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.42	17.70	1.067			-0.06	0.509	0.543
	FR1 n7	50M	BPSK	135	68	Left Side	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.38	17.70	1.076			0.17	0.483	0.520
	FR1 n7	50M	BPSK	1	1	Right Side	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.42	17.70	1.067			-0.01	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Right Side	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.38	17.70	1.076			-0.17	0.001	0.001
	FR1 n7	50M	BPSK	1	1	Top Side	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.42	17.70	1.067			0.17	0.053	0.057
	FR1 n7	50M	BPSK	135	68	Top Side	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.38	17.70	1.076			-0.06	0.001	0.001
	FR1 n7	50M	BPSK	1	1	Bottom Side	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.42	17.70	1.067			-0.08	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Bottom Side	10mm	Ant 2	ECI5	Main PA	507000	2535	-	17.38	17.70	1.076			-0.19	0.001	0.001
	FR1 n7	50M	BPSK	1	1	Front	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.74	18.20	1.112			-0.04	0.147	0.163
	FR1 n7	50M	BPSK	135	68	Front	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.69	18.20	1.125			0.02	0.139	0.156
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.74	18.20	1.112			0.07	0.209	0.232
	FR1 n7	50M	BPSK	135	68	Back	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.69	18.20	1.125			0.05	0.199	0.224
	FR1 n7	50M	BPSK	1	1	Left Side	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.74	18.20	1.112			0.07	0.156	0.173
	FR1 n7	50M	BPSK	135	68	Left Side	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.69	18.20	1.125			-0.09	0.185	0.208
	FR1 n7	50M	BPSK	1	1	Right Side	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.74	18.20	1.112			0.12	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Right Side	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.69	18.20	1.125			-0.03	0.001	0.001
	FR1 n7	50M	BPSK	1	1	Top Side	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.74	18.20	1.112			0.06	0.375	0.417
	FR1 n7	50M	BPSK	135	68	Top Side	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.69	18.20	1.125			-0.13	0.338	0.380
	FR1 n7	50M	BPSK	1	1	Bottom Side	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.74	18.20	1.112			0.01	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Bottom Side	10mm	Ant 3	ECI5	Main PA	507000	2535	-	17.69	18.20	1.125			-0.01	0.001	0.001
	FR1 n7	50M	BPSK	1	1	Front	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.40	21.70	1.349			0.09	0.200	0.270
	FR1 n7	50M	BPSK	135	68	Front	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.39	21.70	1.352			-0.13	0.192	0.260
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.40	21.70	1.349			-0.08	0.274	0.370
	FR1 n7	50M	BPSK	135	68	Back	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.39	21.70	1.352			0.01	0.253	0.342
	FR1 n7	50M	BPSK	1	1	Left Side	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.40	21.70	1.349			0.13	0.053	0.071
	FR1 n7	50M	BPSK	135	68	Left Side	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.39	21.70	1.352			-0.11	0.047	0.064
	FR1 n7	50M	BPSK	1	1	Right Side	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.40	21.70	1.349			0.08	0.059	0.080
	FR1 n7	50M	BPSK	135	68	Right Side	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.39	21.70	1.352			-0.12	0.059	0.080
	FR1 n7	50M	BPSK	1	1	Top Side	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.40	21.70	1.349			0.15	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Top Side	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.39	21.70	1.352			-0.02	0.001	0.001
	FR1 n7	50M	BPSK	1	1	Bottom Side	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.40	21.70	1.349			0.12	0.367	0.495
	FR1 n7	50M	BPSK	135	68	Bottom Side	10mm	Ant 4	ECI5	Main PA	507000	2535	-	20.39	21.70	1.352			0.07	0.344	0.465
	FR1 n7	50M	BPSK	1	1	Front	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.63	19.00	1.371			-0.00	0.146	0.200
	FR1 n7	50M	BPSK	135	68	Front	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.58	19.00	1.387			0.11	0.184	0.255
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.63	19.00	1.371			-0.18	0.171	0.234
	FR1 n7	50M	BPSK	135	68	Back	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.58	19.00	1.387			0.02	0.195	0.270
	FR1 n7	50M	BPSK	1	1	Left Side	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.63	19.00	1.371			-0.12	0.001	0.001



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	FR1 n7	50M	BPSK	135	68	Left Side	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.58	19.00	1.387			-0.17	0.001	0.001
	FR1 n7	50M	BPSK	1	1	Right Side	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.63	19.00	1.371			-0.10	0.353	0.484
46	FR1 n7	50M	BPSK	135	68	Right Side	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.58	19.00	1.387			-0.04	0.418	0.580
	FR1 n7	50M	BPSK	1	1	Top Side	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.63	19.00	1.371			0.05	0.045	0.062
	FR1 n7	50M	BPSK	135	68	Top Side	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.58	19.00	1.387			0.11	0.055	0.076
	FR1 n7	50M	BPSK	1	1	Bottom Side	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.63	19.00	1.371			0.10	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Bottom Side	10mm	Ant 5	ECI5	Main PA	507000	2535	10	17.58	19.00	1.387			0.05	0.001	0.001
	FR1 n12	15M	BPSK	1	1	Front	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.73	25.50	1.194			-0.00	0.274	0.327
	FR1 n12	15M	BPSK	36	22	Front	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.53	25.50	1.25			-0.06	0.289	0.361
	FR1 n12	15M	BPSK	1	1	Back	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.73	25.50	1.194			0.18	0.297	0.355
	FR1 n12	15M	BPSK	36	22	Back	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.53	25.50	1.25			0.02	0.294	0.368
	FR1 n12	15M	BPSK	1	1	Left Side	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.73	25.50	1.194			-0.01	0.112	0.134
	FR1 n12	15M	BPSK	36	22	Left Side	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.53	25.50	1.25			0.01	0.111	0.139
	FR1 n12	15M	BPSK	1	1	Right Side	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.73	25.50	1.194			0.09	0.414	0.494
	FR1 n12	15M	BPSK	36	22	Right Side	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.53	25.50	1.25			-0.13	0.390	0.488
	FR1 n12	15M	BPSK	1	1	Top Side	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.73	25.50	1.194			0.14	0.001	0.001
	FR1 n12	15M	BPSK	36	22	Top Side	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.53	25.50	1.25			-0.07	0.001	0.001
	FR1 n12	15M	BPSK	1	1	Bottom Side	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.73	25.50	1.194			0.17	0.158	0.189
	FR1 n12	15M	BPSK	36	22	Bottom Side	10mm	Ant 0	ECI5	Main PA	141500	707.5	-	24.53	25.50	1.25			0.13	0.163	0.204
	FR1 n12	15M	BPSK	1	1	Front	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.43	22.70	1.064			-0.09	0.516	0.549
	FR1 n12	15M	BPSK	36	22	Front	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.32	22.70	1.091			0.06	0.503	0.549
	FR1 n12	15M	BPSK	1	1	Back	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.43	22.70	1.064			-0.16	0.564	0.600
	FR1 n12	15M	BPSK	36	22	Back	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.32	22.70	1.091			0.12	0.571	0.623
	FR1 n12	15M	BPSK	1	1	Left Side	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.43	22.70	1.064			-0.10	0.694	0.738
47	FR1 n12	15M	BPSK	36	22	Left Side	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.32	22.70	1.091			-0.01	0.711	0.776
	FR1 n12	15M	BPSK	1	1	Right Side	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.43	22.70	1.064			-0.12	0.058	0.062
	FR1 n12	15M	BPSK	36	22	Right Side	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.32	22.70	1.091			-0.12	0.047	0.051
	FR1 n12	15M	BPSK	1	1	Top Side	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.43	22.70	1.064			0.08	0.024	0.026
	FR1 n12	15M	BPSK	36	22	Top Side	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.32	22.70	1.091			0.08	0.001	0.001
	FR1 n12	15M	BPSK	1	1	Bottom Side	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.43	22.70	1.064			0.03	0.001	0.001
	FR1 n12	15M	BPSK	36	22	Bottom Side	10mm	Ant 1	ECI5	Main PA	141500	707.5	-	22.32	22.70	1.091			-0.12	0.001	0.001
	FR1 n25	40M	BPSK	1	1	Front	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.88	18.50	1.153			-0.06	0.128	0.148
	FR1 n25	40M	BPSK	108	54	Front	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.83	18.50	1.167			-0.16	0.129	0.151
	FR1 n25	40M	BPSK	1	1	Back	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.88	18.50	1.153			-0.01	0.160	0.184
	FR1 n25	40M	BPSK	108	54	Back	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.83	18.50	1.167			-0.03	0.162	0.189
	FR1 n25	40M	BPSK	1	1	Left Side	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.88	18.50	1.153			0.01	0.254	0.293
	FR1 n25	40M	BPSK	108	54	Left Side	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.83	18.50	1.167			-0.10	0.241	0.281
	FR1 n25	40M	BPSK	1	1	Right Side	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.88	18.50	1.153			0.08	0.001	0.001
	FR1 n25	40M	BPSK	108	54	Right Side	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.83	18.50	1.167			-0.10	0.001	0.001
	FR1 n25	40M	BPSK	1	1	Top Side	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.88	18.50	1.153			-0.12	0.064	0.074
	FR1 n25	40M	BPSK	108	54	Top Side	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.83	18.50	1.167			0.12	0.059	0.069
	FR1 n25	40M	BPSK	1	1	Bottom Side	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.88	18.50	1.153			-0.14	0.001	0.001
	FR1 n25	40M	BPSK	108	54	Bottom Side	10mm	Ant 2	ECI5	Main PA	376500	1882.5	-	17.83	18.50	1.167			0.13	0.001	0.001
	FR1 n2	20M	BPSK	1	1	Left Side	10mm	Ant 2	ECI5-1	Other PA	376000	1880	-	17.67	19.00	1.358			0.03	0.206	0.280
	FR1 n2	20M	BPSK	1	1	Left Side	10mm	Ant 2	ECI5-2	Other PA-1	376000	1880	-	17.68	18.50	1.208			-0.19	0.203	0.245
	FR1 n25	40M	BPSK	1	1	Front	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.98	18.50	1.419			0.08	0.249	0.353
	FR1 n25	40M	BPSK	108	54	Front	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.94	18.50	1.432			0.11	0.194	0.278
	FR1 n25	40M	BPSK	1	1	Back	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.98	18.50	1.419			0.05	0.298	0.423
	FR1 n25	40M	BPSK	108	54	Back	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.94	18.50	1.432			-0.07	0.234	0.335
	FR1 n25	40M	BPSK	1	1	Left Side	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.98	18.50	1.419			0.19	0.063	0.089
	FR1 n25	40M	BPSK	108	54	Left Side	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.94	18.50	1.432			-0.12	0.052	0.074
	FR1 n25	40M	BPSK	1	1	Right Side	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.98	18.50	1.419			-0.15	0.001	0.001
	FR1 n25	40M	BPSK	108	54	Right Side	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.94	18.50	1.432			-0.07	0.001	0.001
48	FR1 n25	40M	BPSK	1	1	Top Side	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.98	18.50	1.419			0.01	0.441	0.626
	FR1 n25	40M	BPSK	108	54	Top Side	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.94	18.50	1.432			0.05	0.354	0.507
	FR1 n25	40M	BPSK	1	1	Bottom Side	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.98	18.50	1.419			0.17	0.001	0.001
	FR1 n25	40M	BPSK	108	54	Bottom Side	10mm	Ant 3	ECI5	Main PA	376500	1882.5	1	16.94	18.50	1.432			0.12	0.001	0.001
	FR1 n2	20M	BPSK	1	1	Top Side	10mm	Ant 3	ECI5-1	Other PA	376000	1880	1	16.23	17.20	1.25			0.06	0.303	0.379
	FR1 n2	20M	BPSK	1	1	Top Side	10mm	Ant 3	ECI5-2	Other PA-1	376000	1880	1	16.54	17.50	1.247			0.02	0.273	0.340
	FR1 n25	40M	BPSK	1	1	Front	10mm	Ant 4	ECI5	Main PA	376500	1882.5	-	19.23	20.50	1.34			-0.09	0.205	0.275
	FR1 n25	40M	BPSK	108	54	Front	10mm	Ant 4	ECI5	Main PA	376500	1882.5	-	19.19	20.50	1.352			0.03	0.200	0.270
	FR1 n25	40M	BPSK	1	1	Back	10mm	Ant 4	ECI5	Main PA	376500	1882.5	-	19.23	20.50	1.34			0.03	0.289	0.387
	FR1 n25	40M	BPSK	108	54	Back	10mm	Ant 4	ECI5	Main PA	376500	1882.5	-	19.19	20.50	1.352			0.10	0.270	0.365
	FR1 n25	40M	BPSK	1	1	Left Side	10mm	Ant 4	ECI5	Main PA	376500	1882.5	-	19.23	20.50	1.34			-0.02	0.068	0.091
	FR1 n25	40M	BPSK	108	54	Left Side	10mm	Ant 4	ECI5	Main PA	376500	1882.5	-	19.19	20.50	1.352			-0.18	0.072	0.097
	FR1 n25	40M	BPSK	1	1	Right Side	10mm	Ant 4	ECI5	Main PA	376500	1882.5	-	19.23	20.50	1.34			0.07	0.063	0.084
	FR1 n25	40M	BPSK	108	54	Right Side	10mm	Ant 4	ECI5	Main PA	376500	1882.5	-	19.19	20.50	1.352			-0.02	0.055	0.074
	FR1 n25	40M	BPSK	1	1	Top Side	10mm	Ant 4	ECI5	Main PA	376500	1882.5	-	19.23	20.50	1.34			-0.02	0.001	0.001
	FR1 n25	40M	BPSK	108	54	Top Side	10mm	Ant 4	ECI5	Main PA	376500	1882.5	-	19.19	20.50	1.352			0.05	0.001	0.001
	FR1 n25	40M	BPSK	1	1	Bottom Side</															



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	FR1 n25	40M	BPSK	1	1	Front	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.78	19.00	1.324			-0.17	0.094	0.124
	FR1 n25	40M	BPSK	108	54	Front	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.73	19.00	1.34			-0.13	0.117	0.157
	FR1 n25	40M	BPSK	1	1	Back	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.78	19.00	1.324			-0.17	0.111	0.147
	FR1 n25	40M	BPSK	108	54	Back	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.73	19.00	1.34			0.17	0.126	0.169
	FR1 n25	40M	BPSK	1	1	Left Side	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.78	19.00	1.324			-0.14	0.001	0.001
	FR1 n25	40M	BPSK	108	54	Left Side	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.73	19.00	1.34			-0.10	0.001	0.001
	FR1 n25	40M	BPSK	1	1	Right Side	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.78	19.00	1.324			0.07	0.227	0.301
	FR1 n25	40M	BPSK	108	54	Right Side	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.73	19.00	1.34			0.05	0.250	0.335
	FR1 n25	40M	BPSK	1	1	Top Side	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.78	19.00	1.324			0.11	0.001	0.001
	FR1 n25	40M	BPSK	108	54	Top Side	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.73	19.00	1.34			0.15	0.001	0.001
	FR1 n25	40M	BPSK	1	1	Bottom Side	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.78	19.00	1.324			0.15	0.001	0.001
	FR1 n25	40M	BPSK	108	54	Bottom Side	10mm	Ant 5	ECI5	Main PA	376500	1882.5	1C	17.73	19.00	1.34			-0.08	0.001	0.001
	FR1 n2	20M	BPSK	50	28	Right Side	10mm	Ant 5	ECI5-1	Other PA	376000	1880	0	17.20	19.00	1.514			0.06	0.213	0.322
	FR1 n2	20M	BPSK	50	28	Right Side	10mm	Ant 5	ECI5-2	Other PA-1	376000	1880	0	17.51	19.00	1.409			0.02	0.189	0.266
	FR1 n26	20M	BPSK	1	1	Front	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.16	25.70	1.132			0.17	0.348	0.394
	FR1 n26	20M	BPSK	50	28	Front	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.08	25.70	1.153			0.17	0.331	0.382
	FR1 n26	20M	BPSK	1	1	Back	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.16	25.70	1.132			-0.13	0.384	0.435
	FR1 n26	20M	BPSK	50	28	Back	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.08	25.70	1.153			-0.09	0.383	0.442
	FR1 n26	20M	BPSK	1	1	Left Side	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.16	25.70	1.132			-0.18	0.001	0.001
	FR1 n26	20M	BPSK	50	28	Left Side	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.08	25.70	1.153			0.04	0.001	0.001
	FR1 n26	20M	BPSK	1	1	Right Side	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.16	25.70	1.132			-0.19	0.426	0.482
	FR1 n26	20M	BPSK	50	28	Right Side	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.08	25.70	1.153			-0.02	0.462	0.533
	FR1 n26	20M	BPSK	1	1	Top Side	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.16	25.70	1.132			-0.13	0.001	0.001
	FR1 n26	20M	BPSK	50	28	Top Side	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.08	25.70	1.153			-0.07	0.001	0.001
	FR1 n26	20M	BPSK	1	1	Bottom Side	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.16	25.70	1.132			-0.19	0.275	0.311
	FR1 n26	20M	BPSK	50	28	Bottom Side	10mm	Ant 0	ECI5	Main PA	166300	831.5	-	25.08	25.70	1.153			0.08	0.285	0.329
	FR1 n5	20M	BPSK	50	28	Right Side	10mm	Ant 0	ECI5-1	Other PA	167300	836.5	1	24.39	25.50	1.291			0.01	0.354	0.457
	FR1 n26	20M	BPSK	1	1	Front	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.24	21.70	1.112			-0.08	0.522	0.580
	FR1 n26	20M	BPSK	50	28	Front	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.20	21.70	1.122			-0.08	0.454	0.509
	FR1 n26	20M	BPSK	1	1	Back	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.24	21.70	1.112			0.07	0.615	0.684
	FR1 n26	20M	BPSK	50	28	Back	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.20	21.70	1.122			0.03	0.507	0.569
49	FR1 n26	20M	BPSK	1	1	Left Side	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.24	21.70	1.112			-0.02	0.708	0.787
	FR1 n26	20M	BPSK	50	28	Left Side	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.20	21.70	1.122			-0.15	0.598	0.671
	FR1 n26	20M	BPSK	1	1	Right Side	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.24	21.70	1.112			0.02	0.028	0.031
	FR1 n26	20M	BPSK	50	28	Right Side	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.20	21.70	1.122			0.08	0.001	0.001
	FR1 n26	20M	BPSK	1	1	Top Side	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.24	21.70	1.112			0.03	0.028	0.031
	FR1 n26	20M	BPSK	50	28	Top Side	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.20	21.70	1.122			0.02	0.001	0.001
	FR1 n26	20M	BPSK	1	1	Bottom Side	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.24	21.70	1.112			0.02	0.001	0.001
	FR1 n26	20M	BPSK	50	28	Bottom Side	10mm	Ant 1	ECI5	Main PA	166300	831.5	-	21.20	21.70	1.122			0.01	0.001	0.001
	FR1 n5	20M	BPSK	1	1	Left Side	10mm	Ant 1	ECI5-1	Other PA	167300	836.5	1	21.16	21.70	1.132			0.02	0.542	0.614
	FR1 n66	40M	BPSK	1	1	Front	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.48	18.20	1.18			-0.07	0.130	0.153
	FR1 n66	40M	BPSK	108	54	Front	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.41	18.20	1.199			0.07	0.135	0.162
	FR1 n66	40M	BPSK	1	1	Back	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.48	18.20	1.18			0.07	0.174	0.205
	FR1 n66	40M	BPSK	108	54	Back	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.41	18.20	1.199			0.01	0.172	0.206
	FR1 n66	40M	BPSK	1	1	Left Side	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.48	18.20	1.18			-0.07	0.261	0.308
	FR1 n66	40M	BPSK	108	54	Left Side	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.41	18.20	1.199			0.05	0.266	0.319
	FR1 n66	40M	BPSK	108	54	Left Side	10mm	Ant 2	ECI5-1	Other PA	349000	1745	-	17.40	18.20	1.202			-0.06	0.260	0.313
	FR1 n66	40M	BPSK	108	54	Left Side	10mm	Ant 2	ECI5-2	Other PA-1	349000	1745	-	17.35	18.50	1.303			0.15	0.178	0.232
	FR1 n66	40M	BPSK	1	1	Right Side	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.48	18.20	1.18			-0.11	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Right Side	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.41	18.20	1.199			0.04	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Top Side	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.48	18.20	1.18			0.10	0.096	0.113
	FR1 n66	40M	BPSK	108	54	Top Side	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.41	18.20	1.199			-0.02	0.093	0.112
	FR1 n66	40M	BPSK	1	1	Bottom Side	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.48	18.20	1.18			-0.14	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Bottom Side	10mm	Ant 2	ECI5	Main PA	349000	1745	-	17.41	18.20	1.199			0.16	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Front	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.11	16.20	1.285			0.07	0.202	0.260
	FR1 n66	40M	BPSK	108	54	Front	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.08	16.20	1.294			0.17	0.221	0.286
	FR1 n66	40M	BPSK	1	1	Back	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.11	16.20	1.285			0.11	0.240	0.308
	FR1 n66	40M	BPSK	108	54	Back	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.08	16.20	1.294			-0.15	0.250	0.324
	FR1 n66	40M	BPSK	1	1	Left Side	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.11	16.20	1.285			-0.06	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Left Side	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.08	16.20	1.294			0.11	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Right Side	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.11	16.20	1.285			-0.13	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Right Side	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.08	16.20	1.294			-0.01	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Top Side	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.11	16.20	1.285			0.06	0.399	0.513
	FR1 n66	40M	BPSK	108	54	Top Side	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.08	16.20	1.294			0.05	0.339	0.439
	FR1 n66	40M	BPSK	1	1	Top Side	10mm	Ant 3	ECI5-1	Other PA	349000	1745	0	14.93	15.70	1.194			-0.04	0.392	0.468
	FR1 n66	40M	BPSK	1	1	Top Side	10mm	Ant 3	ECI5-2	Other PA-1	349000	1745	0	15.35	16.50	1.303			0.17	0.232	0.302
	FR1 n66	40M	BPSK	1	1	Bottom Side	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.11	16.20	1.285			0.13	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Bottom Side	10mm	Ant 3	ECI5	Main PA	349000	1745	0	15.08	16.20	1.294			-0.10	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Front	10mm	Ant 4	ECI5	Main PA	349000	1745	-	17.93	19.00	1.279			-0.13	0.232	0.297
	FR1 n66	40M	BPSK	108	54	Front	10mm														



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	FR1 n66	40M	BPSK	108	54	Left Side	10mm	Ant 4	ECI5	Main PA	349000	1745	-	17.84	19.00	1.306			-0.06	0.080	0.104
	FR1 n66	40M	BPSK	1	1	Right Side	10mm	Ant 4	ECI5	Main PA	349000	1745	-	17.93	19.00	1.279			-0.00	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Right Side	10mm	Ant 4	ECI5	Main PA	349000	1745	-	17.84	19.00	1.306			-0.03	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Top Side	10mm	Ant 4	ECI5	Main PA	349000	1745	-	17.93	19.00	1.279			-0.12	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Top Side	10mm	Ant 4	ECI5	Main PA	349000	1745	-	17.84	19.00	1.306			-0.10	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Bottom Side	10mm	Ant 4	ECI5	Main PA	349000	1745	-	17.93	19.00	1.279			-0.04	0.414	0.530
50	FR1 n66	40M	BPSK	108	54	Bottom Side	10mm	Ant 4	ECI5	Main PA	349000	1745	-	17.84	19.00	1.306			0.00	0.425	0.555
	FR1 n66	40M	BPSK	108	54	Bottom Side	10mm	Ant 4	ECI5-1	Other PA	349000	1745	-	17.40	18.20	1.202			-0.14	0.429	0.516
	FR1 n66	40M	BPSK	108	54	Bottom Side	10mm	Ant 4	ECI5-2	Other PA-1	349000	1745	-	17.72	19.00	1.343			-0.08	0.265	0.356
	FR1 n66	40M	BPSK	1	1	Front	10mm	Ant 5	ECI5	Main PA	349000	1745	8	17.05	18.50	1.396			0.16	0.189	0.264
	FR1 n66	40M	BPSK	108	54	Front	10mm	Ant 5	ECI5	Main PA	349000	1745	8	16.88	18.50	1.452			0.13	0.178	0.258
	FR1 n66	40M	BPSK	1	1	Back	10mm	Ant 5	ECI5	Main PA	349000	1745	8	17.05	18.50	1.396			0.11	0.213	0.297
	FR1 n66	40M	BPSK	108	54	Back	10mm	Ant 5	ECI5	Main PA	349000	1745	8	16.88	18.50	1.452			-0.13	0.197	0.286
	FR1 n66	40M	BPSK	1	1	Left Side	10mm	Ant 5	ECI5	Main PA	349000	1745	8	17.05	18.50	1.396			-0.14	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Left Side	10mm	Ant 5	ECI5	Main PA	349000	1745	8	16.88	18.50	1.452			0.18	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Right Side	10mm	Ant 5	ECI5	Main PA	349000	1745	8	17.05	18.50	1.396			-0.01	0.344	0.480
	FR1 n66	40M	BPSK	108	54	Right Side	10mm	Ant 5	ECI5	Main PA	349000	1745	8	16.88	18.50	1.452			-0.03	0.356	0.517
	FR1 n66	40M	BPSK	108	54	Right Side	10mm	Ant 5	ECI5-1	Other PA	349000	1745	8	17.18	18.50	1.355			-0.12	0.377	0.511
	FR1 n66	40M	BPSK	108	54	Right Side	10mm	Ant 5	ECI5-2	Other PA-1	349000	1745	8	17.29	18.50	1.321			0.07	0.220	0.291
	FR1 n66	40M	BPSK	1	1	Top Side	10mm	Ant 5	ECI5	Main PA	349000	1745	8	17.05	18.50	1.396			-0.01	0.039	0.054
	FR1 n66	40M	BPSK	108	54	Top Side	10mm	Ant 5	ECI5	Main PA	349000	1745	8	16.88	18.50	1.452			0.17	0.040	0.058
	FR1 n66	40M	BPSK	1	1	Bottom Side	10mm	Ant 5	ECI5	Main PA	349000	1745	8	17.05	18.50	1.396			-0.01	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Bottom Side	10mm	Ant 5	ECI5	Main PA	349000	1745	8	16.88	18.50	1.452			-0.12	0.001	0.001
	FR1 n71	20M	BPSK	1	1	Front	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.23	25.00	1.194			0.18	0.176	0.210
	FR1 n71	20M	BPSK	50	28	Front	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.22	25.00	1.197			0.03	0.208	0.249
	FR1 n71	20M	BPSK	1	1	Back	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.23	25.00	1.194			0.18	0.194	0.232
	FR1 n71	20M	BPSK	50	28	Back	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.22	25.00	1.197			0.18	0.230	0.275
	FR1 n71	20M	BPSK	1	1	Left Side	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.23	25.00	1.194			-0.14	0.116	0.139
	FR1 n71	20M	BPSK	50	28	Left Side	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.22	25.00	1.197			-0.04	0.139	0.166
	FR1 n71	20M	BPSK	1	1	Right Side	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.23	25.00	1.194			0.16	0.359	0.429
	FR1 n71	20M	BPSK	50	28	Right Side	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.22	25.00	1.197			-0.01	0.420	0.503
	FR1 n71	20M	BPSK	1	1	Top Side	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.23	25.00	1.194			0.12	0.001	0.001
	FR1 n71	20M	BPSK	50	28	Top Side	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.22	25.00	1.197			-0.10	0.001	0.001
	FR1 n71	20M	BPSK	1	1	Bottom Side	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.23	25.00	1.194			0.19	0.072	0.086
	FR1 n71	20M	BPSK	50	28	Bottom Side	10mm	Ant 0	ECI5	Main PA	136100	680.5	2	24.22	25.00	1.197			0.18	0.112	0.134
	FR1 n71	20M	BPSK	1	1	Front	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.77	22.70	1.239			0.04	0.456	0.565
	FR1 n71	20M	BPSK	50	28	Front	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.69	22.70	1.262			-0.10	0.525	0.663
	FR1 n71	20M	BPSK	1	1	Back	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.77	22.70	1.239			-0.14	0.511	0.633
	FR1 n71	20M	BPSK	50	28	Back	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.69	22.70	1.262			-0.19	0.590	0.745
	FR1 n71	20M	BPSK	1	1	Left Side	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.77	22.70	1.239			-0.07	0.649	0.804
51	FR1 n71	20M	BPSK	50	28	Left Side	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.69	22.70	1.262			0.00	0.668	0.843
	FR1 n71	20M	BPSK	100	0	Left Side	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.57	22.70	1.297			-0.13	0.574	0.744
	FR1 n71	20M	BPSK	1	1	Right Side	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.77	22.70	1.239			0.19	0.065	0.081
	FR1 n71	20M	BPSK	50	28	Right Side	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.69	22.70	1.262			-0.16	0.070	0.088
	FR1 n71	20M	BPSK	1	1	Top Side	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.77	22.70	1.239			-0.07	0.001	0.001
	FR1 n71	20M	BPSK	50	28	Top Side	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.69	22.70	1.262			-0.08	0.001	0.001
	FR1 n71	20M	BPSK	1	1	Bottom Side	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.77	22.70	1.239			-0.01	0.001	0.001
	FR1 n71	20M	BPSK	50	28	Bottom Side	10mm	Ant 1	ECI5	Main PA	136100	680.5	-	21.69	22.70	1.262			-0.01	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Front	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.99	17.20	1.05			-0.03	0.219	0.230
	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.95	17.20	1.059			-0.18	0.201	0.213
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.99	17.20	1.05			0.04	0.273	0.287
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.95	17.20	1.059			0.05	0.278	0.294
	FR1 n41	100M	BPSK	1	1	Left Side	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.99	17.20	1.05			0.05	0.415	0.436
	FR1 n41	100M	BPSK	135	69	Left Side	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.95	17.20	1.059			-0.07	0.424	0.449
	FR1 n41	100M	BPSK	1	1	Right Side	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.99	17.20	1.05			0.06	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Right Side	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.95	17.20	1.059			0.07	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Top Side	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.99	17.20	1.05			-0.06	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Top Side	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.95	17.20	1.059			-0.02	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Bottom Side	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.99	17.20	1.05			0.05	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Bottom Side	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	16.95	17.20	1.059			0.15	0.001	0.001
	FR1 n41_HPUE	100M	BPSK	135	69	Left Side	10mm	Ant 2	ECI5	Main PA	518598	2592.99	-	19.95	20.50	1.135	50.0	1.0	-0.00	0.445	0.505
	FR1 n41	100M	BPSK	1	1	Front	10mm	Ant 3	ECI5	Main PA	518598	2592.99	-	16.94	17.20	1.062			0.15	0.123	0.131
	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 3	ECI5	Main PA	518598	2592.99	-	16.88	17.20	1.076			0.15	0.108	0.116
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 3	ECI5	Main PA	518598	2592.99	-	16.94	17.20	1.062			-0.12	0.184	0.195
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 3	ECI5	Main PA	518598	2592.99	-	16.88	17.20	1.076			0.17	0.159	0.171
	FR1 n41	100M	BPSK	1	1	Left Side	10mm	Ant 3	ECI5	Main PA	518598	2592.99	-	16.94	17.20	1.062			-0.10	0.086	0.091
	FR1 n41	100M	BPSK	135	69	Left Side	10mm	Ant 3	ECI5	Main PA	518598	2592.99	-	16.88	17.20	1.076			-0.17	0.128	0.138
	FR1 n41	100M	BPSK	1	1	Right Side	10mm	Ant 3	ECI5	Main PA	518598	2592.99	-	16.94	17.20	1.062			-0.06	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Right Side	10mm	Ant 3	ECI5	Main PA	518598	2592.99	-	16.88	17.20	1.076			0.02	0.001	0.00



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	FR1 n41_HPUE	100M	BPSK	1	1	Top Side	10mm	Ant 3	ECI5	Main PA	518598	2592.99	-	19.99	21.00	1.262	50.0	1.0	0.01	0.295	0.372
	FR1 n41	100M	BPSK	1	1	Front	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.46	20.70	1.33			0.07	0.109	0.145
	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.41	20.70	1.346			-0.12	0.113	0.152
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.46	20.70	1.33			-0.07	0.152	0.202
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.41	20.70	1.346			-0.08	0.167	0.225
	FR1 n41	100M	BPSK	1	1	Left Side	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.46	20.70	1.33			-0.14	0.029	0.039
	FR1 n41	100M	BPSK	135	69	Left Side	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.41	20.70	1.346			0.15	0.032	0.043
	FR1 n41	100M	BPSK	1	1	Right Side	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.46	20.70	1.33			-0.09	0.026	0.035
	FR1 n41	100M	BPSK	135	69	Right Side	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.41	20.70	1.346			0.08	0.023	0.031
	FR1 n41	100M	BPSK	1	1	Top Side	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.46	20.70	1.33			0.11	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Top Side	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.41	20.70	1.346			0.02	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Bottom Side	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.46	20.70	1.33			0.14	0.216	0.287
	FR1 n41	100M	BPSK	135	69	Bottom Side	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	19.41	20.70	1.346			0.07	0.249	0.335
	FR1 n41_HPUE	100M	BPSK	135	69	Bottom Side	10mm	Ant 4	ECI5	Main PA	518598	2592.99	-	22.30	24.00	1.479	50.0	1.0	0.06	0.253	0.374
	FR1 n41	100M	BPSK	1	1	Front	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	17.16	18.50	1.361			-0.02	0.148	0.201
	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	16.96	18.50	1.426			-0.02	0.134	0.191
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	17.16	18.50	1.361			-0.10	0.170	0.231
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	16.96	18.50	1.426			-0.06	0.157	0.224
	FR1 n41	100M	BPSK	1	1	Left Side	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	17.16	18.50	1.361			-0.13	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Left Side	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	16.96	18.50	1.426			-0.14	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Right Side	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	17.16	18.50	1.361			0.03	0.375	0.510
	FR1 n41	100M	BPSK	135	69	Right Side	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	16.96	18.50	1.426			-0.18	0.317	0.452
	FR1 n41	100M	BPSK	1	1	Top Side	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	17.16	18.50	1.361			-0.02	0.050	0.068
	FR1 n41	100M	BPSK	135	69	Top Side	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	16.96	18.50	1.426			-0.08	0.046	0.066
	FR1 n41	100M	BPSK	1	1	Bottom Side	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	17.16	18.50	1.361			-0.08	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Bottom Side	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	16.96	18.50	1.426			0.01	0.001	0.001
52	FR1 n41_HPUE	100M	BPSK	1	1	Right Side	10mm	Ant 5	ECI5	Main PA	518598	2592.99	10	20.10	21.50	1.38	50.0	1.0	-0.05	0.389	0.537
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.67	15.00	1.079			0.03	0.095	0.103
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.62	15.00	1.091			0.13	0.088	0.096
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.67	15.00	1.079			0.09	0.114	0.123
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.62	15.00	1.091			0.17	0.105	0.115
	FR1 n48	40M	BPSK	1	1	Left Side	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.67	15.00	1.079			0.06	0.022	0.024
	FR1 n48	40M	BPSK	50	28	Left Side	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.62	15.00	1.091			0.17	0.022	0.024
	FR1 n48	40M	BPSK	1	1	Right Side	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.67	15.00	1.079			0.12	0.050	0.054
	FR1 n48	40M	BPSK	50	28	Right Side	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.62	15.00	1.091			-0.13	0.044	0.048
	FR1 n48	40M	BPSK	1	1	Top Side	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.67	15.00	1.079			-0.10	0.229	0.247
	FR1 n48	40M	BPSK	50	28	Top Side	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.62	15.00	1.091			-0.01	0.211	0.230
	FR1 n48	40M	BPSK	1	1	Bottom Side	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.67	15.00	1.079			0.19	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Bottom Side	10mm	Ant 6	ECI5	Main PA	641666	3624.99	-	14.62	15.00	1.091			0.05	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.58	16.50	1.236			-0.10	0.177	0.219
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.54	16.50	1.247			-0.06	0.168	0.209
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.58	16.50	1.236			0.17	0.203	0.251
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.54	16.50	1.247			-0.12	0.178	0.222
	FR1 n48	40M	BPSK	1	1	Left Side	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.58	16.50	1.236			0.18	0.269	0.332
	FR1 n48	40M	BPSK	50	28	Left Side	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.54	16.50	1.247			0.06	0.283	0.353
	FR1 n48	40M	BPSK	1	1	Right Side	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.58	16.50	1.236			-0.06	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Right Side	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.54	16.50	1.247			-0.02	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Top Side	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.58	16.50	1.236			0.16	0.070	0.087
	FR1 n48	40M	BPSK	50	28	Top Side	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.54	16.50	1.247			0.05	0.072	0.090
	FR1 n48	40M	BPSK	1	1	Bottom Side	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.58	16.50	1.236			0.03	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Bottom Side	10mm	Ant 7	ECI5	Main PA	641666	3624.99	-	15.54	16.50	1.247			-0.03	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.46	17.50	1.271			0.11	0.159	0.202
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.42	17.50	1.282			0.14	0.146	0.187
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.46	17.50	1.271			0.01	0.172	0.219
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.42	17.50	1.282			0.09	0.154	0.197
	FR1 n48	40M	BPSK	1	1	Left Side	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.46	17.50	1.271			0.04	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Left Side	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.42	17.50	1.282			0.08	0.001	0.001
53	FR1 n48	40M	BPSK	1	1	Right Side	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.46	17.50	1.271			0.03	0.280	0.356
	FR1 n48	40M	BPSK	50	28	Right Side	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.42	17.50	1.282			0.18	0.259	0.332
	FR1 n48	40M	BPSK	1	1	Top Side	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.46	17.50	1.271			0.16	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Top Side	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.42	17.50	1.282			-0.03	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Bottom Side	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.46	17.50	1.271			-0.17	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Bottom Side	10mm	Ant 8	ECI5	Main PA	641666	3624.99	-	16.42	17.50	1.282			-0.14	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 9	ECI5	Main PA	641666	3624.99	-	14.76	16.00	1.33			0.07	0.145	0.193
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 9	ECI5	Main PA	641666	3624.99	-	14.73	16.00	1.34			0.10	0.134	0.180
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 9	ECI5	Main PA	641666	3624.99	-	14.76	16.00	1.33			-0.16	0.104	0.138
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 9	ECI5	Main PA	641666	3624.99	-	14.73	16.00	1.34			0.04	0.096	0.129
	FR1 n48	40M	BPSK	1	1	Left Side	10mm	Ant 9	ECI5	Main PA	641666	3624.99	-	14.76	16.00	1.33			0.12	0.099	0.132
	FR1 n48	40M	BPSK	50	28	Left Side	10mm	Ant 9	ECI												



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	FR1 n48	40M	BPSK	1	1	Bottom Side	10mm	Ant 9	ECI5	Main PA	641666	3624.99	-	14.76	16.00	1.33			-0.07	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Bottom Side	10mm	Ant 9	ECI5	Main PA	641666	3624.99	-	14.73	16.00	1.34			-0.16	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.66	16.00	1.081			-0.08	0.127	0.137
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.62	16.00	1.091			-0.14	0.114	0.124
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.66	16.00	1.081			-0.19	0.157	0.170
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.62	16.00	1.091			0.13	0.128	0.140
	FR1 n77	100M	BPSK	1	1	Left Side	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.66	16.00	1.081			-0.03	0.023	0.025
	FR1 n77	100M	BPSK	135	69	Left Side	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.62	16.00	1.091			0.12	0.024	0.026
	FR1 n77	100M	BPSK	1	1	Right Side	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.66	16.00	1.081			0.06	0.115	0.124
	FR1 n77	100M	BPSK	135	69	Right Side	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.62	16.00	1.091			0.19	0.112	0.122
	FR1 n77	100M	BPSK	1	1	Top Side	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.66	16.00	1.081			0.17	0.320	0.346
	FR1 n77	100M	BPSK	135	69	Top Side	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.62	16.00	1.091			-0.18	0.301	0.328
	FR1 n77	100M	BPSK	1	1	Bottom Side	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.66	16.00	1.081			-0.02	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Side	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	15.62	16.00	1.091			-0.17	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	10mm	Ant 6	ECI5	Main PA	633332	3499.98	2	18.69	19.00	1.074	50.0	1.0	-0.02	0.334	0.359
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.23	17.00	1.194			0.08	0.133	0.159
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.18	17.00	1.208			0.03	0.124	0.150
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.23	17.00	1.194			-0.13	0.205	0.245
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.18	17.00	1.208			0.14	0.178	0.215
	FR1 n77	100M	BPSK	1	1	Left Side	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.23	17.00	1.194			0.13	0.287	0.343
	FR1 n77	100M	BPSK	135	69	Left Side	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.18	17.00	1.208			-0.17	0.308	0.372
	FR1 n77	100M	BPSK	1	1	Right Side	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.23	17.00	1.194			0.14	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Right Side	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.18	17.00	1.208			0.00	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Top Side	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.23	17.00	1.194			0.08	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Top Side	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.18	17.00	1.208			0.17	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Bottom Side	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.23	17.00	1.194			0.09	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Side	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	16.18	17.00	1.208			0.07	0.001	0.001
54	FR1 n77_HPUE	100M	BPSK	135	69	Left Side	10mm	Ant 7	ECI5	Main PA	633332	3499.98	-	18.97	20.00	1.268	50.0	1.0	-0.13	0.311	0.394
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.06	14.00	1.242			0.11	0.166	0.206
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.02	14.00	1.253			-0.15	0.141	0.177
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.06	14.00	1.242			0.15	0.132	0.164
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.02	14.00	1.253			-0.05	0.111	0.139
	FR1 n77	100M	BPSK	1	1	Left Side	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.06	14.00	1.242			0.15	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Left Side	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.02	14.00	1.253			0.00	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Right Side	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.06	14.00	1.242			-0.02	0.287	0.356
	FR1 n77	100M	BPSK	135	69	Right Side	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.02	14.00	1.253			-0.10	0.243	0.304
	FR1 n77	100M	BPSK	1	1	Top Side	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.06	14.00	1.242			0.11	0.045	0.056
	FR1 n77	100M	BPSK	135	69	Top Side	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.02	14.00	1.253			-0.16	0.039	0.049
	FR1 n77	100M	BPSK	1	1	Bottom Side	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.06	14.00	1.242			0.04	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Side	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	13.02	14.00	1.253			-0.07	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	1	1	Right Side	10mm	Ant 8	ECI5	Main PA	633332	3499.98	1C	15.84	17.00	1.306	50.0	1.0	0.02	0.286	0.374
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.98	17.00	1.265			0.01	0.128	0.162
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.95	17.00	1.274			0.18	0.130	0.166
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.98	17.00	1.265			-0.03	0.090	0.114
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.95	17.00	1.274			0.06	0.091	0.116
	FR1 n77	100M	BPSK	1	1	Left Side	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.98	17.00	1.265			-0.02	0.050	0.063
	FR1 n77	100M	BPSK	135	69	Left Side	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.95	17.00	1.274			-0.03	0.051	0.065
	FR1 n77	100M	BPSK	1	1	Right Side	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.98	17.00	1.265			0.02	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Right Side	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.95	17.00	1.274			-0.02	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Top Side	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.98	17.00	1.265			-0.01	0.167	0.211
	FR1 n77	100M	BPSK	135	69	Top Side	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.95	17.00	1.274			0.16	0.128	0.163
	FR1 n77	100M	BPSK	1	1	Bottom Side	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.98	17.00	1.265			-0.17	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Side	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	15.95	17.00	1.274			-0.06	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	10mm	Ant 9	ECI5	Main PA	633332	3499.98	-	19.09	20.00	1.233	50.0	1.0	0.02	0.176	0.217
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.59	16.00	1.099			0.03	0.090	0.099
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.40	16.00	1.148			-0.09	0.080	0.092
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.59	16.00	1.099			-0.17	0.083	0.091
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.40	16.00	1.148			-0.05	0.076	0.087
	FR1 n77	100M	BPSK	1	1	Left Side	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.59	16.00	1.099			-0.09	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Left Side	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.40	16.00	1.148			0.04	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Right Side	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.59	16.00	1.099			-0.11	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Right Side	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.40	16.00	1.148			0.16	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Top Side	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.59	16.00	1.099			-0.09	0.199	0.219
	FR1 n77	100M	BPSK	135	69	Top Side	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.40	16.00	1.148			-0.17	0.210	0.241
	FR1 n77	100M	BPSK	1	1	Bottom Side	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.59	16.00	1.099			0.09	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Side	10mm	Ant 6	ECI5	Main PA	656000	3840	2	15.40	16.00	1.148			0.03	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	10mm	Ant 6	ECI5	Main PA	656000	3840	2	18.65	19.00	1.084	50.0	1.0	0.01	0.230	0.249
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 7	ECI5	Main PA	656000	3840	-	16.25	17.00	1.189			-0.11	0.091	0.108



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	FR1 n77	100M	BPSK	1	1	Right Side	10mm	Ant 7	ECI5	Main PA	656000	3840	-	16.25	17.00	1.189			0.04	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Right Side	10mm	Ant 7	ECI5	Main PA	656000	3840	-	16.20	17.00	1.202			0.11	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Top Side	10mm	Ant 7	ECI5	Main PA	656000	3840	-	16.25	17.00	1.189			0.02	0.048	0.057
	FR1 n77	100M	BPSK	135	69	Top Side	10mm	Ant 7	ECI5	Main PA	656000	3840	-	16.20	17.00	1.202			0.01	0.043	0.052
	FR1 n77	100M	BPSK	1	1	Bottom Side	10mm	Ant 7	ECI5	Main PA	656000	3840	-	16.25	17.00	1.189			0.11	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Side	10mm	Ant 7	ECI5	Main PA	656000	3840	-	16.20	17.00	1.202			-0.00	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	1	1	Left Side	10mm	Ant 7	ECI5	Main PA	656000	3840	-	19.38	20.00	1.153	50.0	1.0	0.06	0.243	0.280
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	13.09	14.00	1.233			-0.00	0.082	0.101
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	12.96	14.00	1.271			0.06	0.079	0.100
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	13.09	14.00	1.233			-0.03	0.080	0.099
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	12.96	14.00	1.271			0.09	0.083	0.105
	FR1 n77	100M	BPSK	1	1	Left Side	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	13.09	14.00	1.233			-0.07	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Left Side	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	12.96	14.00	1.271			-0.12	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Right Side	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	13.09	14.00	1.233			0.18	0.166	0.205
	FR1 n77	100M	BPSK	135	69	Right Side	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	12.96	14.00	1.271			-0.16	0.171	0.217
	FR1 n77	100M	BPSK	1	1	Top Side	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	13.09	14.00	1.233			0.02	0.049	0.060
	FR1 n77	100M	BPSK	135	69	Top Side	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	12.96	14.00	1.271			-0.16	0.049	0.062
	FR1 n77	100M	BPSK	1	1	Bottom Side	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	13.09	14.00	1.233			0.08	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Side	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	12.96	14.00	1.271			0.13	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	135	69	Right Side	10mm	Ant 8	ECI5	Main PA	656000	3840	1C	15.75	17.00	1.334	50.0	1.0	0.06	0.173	0.231
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 9	ECI5	Main PA	656000	3840	-	16.12	17.00	1.225			-0.18	0.128	0.157
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 9	ECI5	Main PA	656000	3840	-	15.91	17.00	1.285			-0.12	0.124	0.159
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 9	ECI5	Main PA	656000	3840	-	16.12	17.00	1.225			-0.07	0.101	0.124
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 9	ECI5	Main PA	656000	3840	-	15.91	17.00	1.285			-0.04	0.103	0.132
	FR1 n77	100M	BPSK	1	1	Left Side	10mm	Ant 9	ECI5	Main PA	656000	3840	-	16.12	17.00	1.225			0.12	0.082	0.100
	FR1 n77	100M	BPSK	135	69	Left Side	10mm	Ant 9	ECI5	Main PA	656000	3840	-	15.91	17.00	1.285			0.02	0.071	0.091
	FR1 n77	100M	BPSK	1	1	Right Side	10mm	Ant 9	ECI5	Main PA	656000	3840	-	16.12	17.00	1.225			0.16	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Right Side	10mm	Ant 9	ECI5	Main PA	656000	3840	-	15.91	17.00	1.285			0.14	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Top Side	10mm	Ant 9	ECI5	Main PA	656000	3840	-	16.12	17.00	1.225			-0.15	0.136	0.167
	FR1 n77	100M	BPSK	135	69	Top Side	10mm	Ant 9	ECI5	Main PA	656000	3840	-	15.91	17.00	1.285			0.04	0.145	0.186
	FR1 n77	100M	BPSK	1	1	Bottom Side	10mm	Ant 9	ECI5	Main PA	656000	3840	-	16.12	17.00	1.225			0.10	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Side	10mm	Ant 9	ECI5	Main PA	656000	3840	-	15.91	17.00	1.285			0.14	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	10mm	Ant 9	ECI5	Main PA	656000	3840	-	19.12	20.00	1.225	50.0	1.0	0.01	0.160	0.196

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WIFI/BT																
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 11	Hotspot	11	2462	19.91	20	1.021	98.3	1.017	0.03	0.285	0.296
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 11	Hotspot	11	2462	19.91	20	1.021	98.3	1.017	0.18	0.450	0.467
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 11	Hotspot	11	2462	19.91	20	1.021	98.3	1.017	0.16	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 11	Hotspot	11	2462	19.91	20	1.021	98.3	1.017	-0.1	0.139	0.144
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 11	Hotspot	11	2462	19.91	20	1.021	98.3	1.017	0.01	0.577	0.599
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	Hotspot	6	2437	19.2	19.5	1.072	98.98	1.010	0.18	0.324	0.351
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	Hotspot	6	2437	19.2	19.5	1.072	98.98	1.010	-0.1	0.407	0.441
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 5	Hotspot	6	2437	19.2	19.5	1.072	98.98	1.010	0.01	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 5	Hotspot	6	2437	19.2	19.5	1.072	98.98	1.010	0.02	0.579	0.627
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 5	Hotspot	6	2437	19.2	19.5	1.072	98.98	1.010	-0.15	0.053	0.057
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	DBS&non DBS	6	2437	17.26	17.5	1.057	98.98	1.010	0.07	0.208	0.222
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	DBS&non DBS	6	2437	17.26	17.5	1.057	98.98	1.010	-0.18	0.261	0.279
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 5	DBS&non DBS	6	2437	17.26	17.5	1.057	98.98	1.010	0.03	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 5	DBS&non DBS	6	2437	17.26	17.5	1.057	98.98	1.010	-0.15	0.371	0.396
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 5	DBS&non DBS	6	2437	17.26	17.5	1.057	98.98	1.010	-0.15	0.034	0.036
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	WWAN+DBS&non DBS	6	2437	11.72	12	1.067	98.98	1.010	-0.03	0.062	0.067
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	WWAN+DBS&non DBS	6	2437	11.72	12	1.067	98.98	1.010	-0.15	0.077	0.083
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 5	WWAN+DBS&non DBS	6	2437	11.72	12	1.067	98.98	1.010	0.02	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 5	WWAN+DBS&non DBS	6	2437	11.72	12	1.067	98.98	1.010	0.07	0.110	0.119
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 5	WWAN+DBS&non DBS	6	2437	11.72	12	1.067	98.98	1.010	0.16	0.010	0.011
	WLAN2.4GHz	802.11n-HT20 MCS0	Front	10mm	Ant 11+5(5)	Hotspot	6	2437	18.62	19	1.091	95.74	1.044	0.07	0.517	0.589
	WLAN2.4GHz	802.11n-HT20 MCS0	Back	10mm	Ant 11+5(5)	Hotspot	6	2437	18.62	19	1.091	95.74	1.044	0.03	0.560	0.638
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Side	10mm	Ant 11+5(5)	Hotspot	6	2437	18.62	19	1.091	95.74	1.044	-0.15	0.002	0.002
55	WLAN2.4GHz	802.11n-HT20 MCS0	Right Side	10mm	Ant 11+5(5)	Hotspot	6	2437	18.62	19	1.091	95.74	1.044	0.01	0.690	0.786
	WLAN2.4GHz	802.11n-HT20 MCS0	Top Side	10mm	Ant 11+5(5)	Hotspot	6	2437	18.62	19	1.091	95.74	1.044	-0.17	0.654	0.745
	WLAN2.4GHz	802.11n-HT20 MCS0	Front	10mm	Ant 11+5(11)	WWAN+DBS&non DBS	11	2462	13.58	14	1.102	95.74	1.044	0.15	0.148	0.170



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	WLAN2.4GHz	802.11n-HT20 MCS0	Back	10mm	Ant 11+5(11)	WWAN+DBS&non DBS	11	2462	13.58	14	1.102	95.74	1.044	-0.09	0.161	0.185
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Side	10mm	Ant 11+5(11)	WWAN+DBS&non DBS	11	2462	13.58	14	1.102	95.74	1.044	0.11	0.001	0.001
	WLAN2.4GHz	802.11n-HT20 MCS0	Right Side	10mm	Ant 11+5(11)	WWAN+DBS&non DBS	11	2462	13.58	14	1.102	95.74	1.044	-0.05	0.198	0.228
	WLAN2.4GHz	802.11n-HT20 MCS0	Top Side	10mm	Ant 11+5(11)	WWAN+DBS&non DBS	11	2462	13.58	14	1.102	95.74	1.044	-0.08	0.188	0.216
	WLAN5GHz	802.11be-EHT40 MCS0	Front	10mm	Ant 6+13(13)	Hotspot	46	5230	18.06	18.5	1.107	91.51	1.093	0.18	0.259	0.313
	WLAN5GHz	802.11be-EHT40 MCS0	Back	10mm	Ant 6+13(13)	Hotspot	46	5230	18.06	18.5	1.107	91.51	1.093	-0.1	0.295	0.357
	WLAN5GHz	802.11be-EHT40 MCS0	Left Side	10mm	Ant 6+13(13)	Hotspot	46	5230	18.06	18.5	1.107	91.51	1.093	0.01	0.079	0.096
	WLAN5GHz	802.11be-EHT40 MCS0	Right Side	10mm	Ant 6+13(13)	Hotspot	46	5230	18.06	18.5	1.107	91.51	1.093	-0.15	0.494	0.598
56	WLAN5GHz	802.11be-EHT40 MCS0	Top Side	10mm	Ant 6+13(13)	Hotspot	46	5230	18.06	18.5	1.107	91.51	1.093	-0.07	0.618	0.748
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+13(13)	DBS&non DBS	42	5210	15.58	16	1.102	96.6	1.035	-0.08	0.166	0.189
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+13(13)	DBS&non DBS	42	5210	15.58	16	1.102	96.6	1.035	-0.17	0.189	0.216
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+13(13)	DBS&non DBS	42	5210	15.58	16	1.102	96.6	1.035	-0.08	0.050	0.057
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+13(13)	DBS&non DBS	42	5210	15.58	16	1.102	96.6	1.035	-0.04	0.316	0.360
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+13(13)	DBS&non DBS	42	5210	15.58	16	1.102	96.6	1.035	-0.08	0.395	0.451
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+13(13)	WWAN+DBS&non DBS	42	5210	10.63	11	1.089	96.6	1.035	-0.17	0.057	0.064
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+13(13)	WWAN+DBS&non DBS	42	5210	10.63	11	1.089	96.6	1.035	-0.03	0.065	0.073
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+13(13)	WWAN+DBS&non DBS	42	5210	10.63	11	1.089	96.6	1.035	0.14	0.017	0.019
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+13(13)	WWAN+DBS&non DBS	42	5210	10.63	11	1.089	96.6	1.035	0.11	0.109	0.123
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+13(13)	WWAN+DBS&non DBS	42	5210	10.63	11	1.089	96.6	1.035	-0.05	0.136	0.153
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6+13(13)	Hotspot	151	5755	16.67	17	1.079	92.77	1.078	-0.01	0.212	0.247
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6+13(13)	Hotspot	151	5755	16.67	17	1.079	92.77	1.078	-0.08	0.261	0.304
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 6+13(13)	Hotspot	151	5755	16.67	17	1.079	92.77	1.078	0.05	0.061	0.071
57	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+13(13)	Hotspot	151	5755	16.67	17	1.079	92.77	1.078	0.03	0.527	0.613
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 6+13(13)	Hotspot	151	5755	16.67	17	1.079	92.77	1.078	0.06	0.439	0.511
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+13(6)	DBS&non DBS	155	5775	14.36	14.5	1.033	96.6	1.035	0.18	0.111	0.119
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+13(6)	DBS&non DBS	155	5775	14.36	14.5	1.033	96.6	1.035	-0.04	0.136	0.145
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+13(6)	DBS&non DBS	155	5775	14.36	14.5	1.033	96.6	1.035	-0.08	0.032	0.034
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+13(6)	DBS&non DBS	155	5775	14.36	14.5	1.033	96.6	1.035	-0.13	0.275	0.294
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+13(6)	DBS&non DBS	155	5775	14.36	14.5	1.033	96.6	1.035	-0.13	0.229	0.245
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+13(6)	WWAN+DBS&non DBS	155	5775	9.39	9.5	1.026	96.6	1.035	0.14	0.040	0.042
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+13(6)	WWAN+DBS&non DBS	155	5775	9.39	9.5	1.026	96.6	1.035	-0.17	0.049	0.052
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+13(6)	WWAN+DBS&non DBS	155	5775	9.39	9.5	1.026	96.6	1.035	0.17	0.011	0.012
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+13(6)	WWAN+DBS&non DBS	155	5775	9.39	9.5	1.026	96.6	1.035	-0.05	0.099	0.105
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+13(6)	WWAN+DBS&non DBS	155	5775	9.39	9.5	1.026	96.6	1.035	0.01	0.082	0.087
	Bluetooth	1Mbps	Front	10mm	Ant 11	Hotspot	39	2441	16.63	18	1.371	76.86	1.084	0.08	0.067	0.100
	Bluetooth	1Mbps	Back	10mm	Ant 11	Hotspot	39	2441	16.63	18	1.371	76.86	1.084	0.01	0.113	0.168
	Bluetooth	1Mbps	Left Side	10mm	Ant 11	Hotspot	39	2441	16.63	18	1.371	76.86	1.084	0.03	0.001	0.001
	Bluetooth	1Mbps	Right Side	10mm	Ant 11	Hotspot	39	2441	16.63	18	1.371	76.86	1.084	-0.08	0.001	0.001
	Bluetooth	1Mbps	Top Side	10mm	Ant 11	Hotspot	39	2441	16.63	18	1.371	76.86	1.084	0.06	0.160	0.238
	Bluetooth	1Mbps	Front	10mm	Ant 11+5(11)	WWAN+DBS&non DBS	0	2402	8.72	10.5	1.507	76.87	1.084	-0.17	0.001	0.002
	Bluetooth	1Mbps	Back	10mm	Ant 11+5(11)	WWAN+DBS&non DBS	0	2402	8.72	10.5	1.507	76.87	1.084	0.17	0.001	0.002
	Bluetooth	1Mbps	Left Side	10mm	Ant 11+5(11)	WWAN+DBS&non DBS	0	2402	8.72	10.5	1.507	76.87	1.084	-0.05	0.001	0.002
	Bluetooth	1Mbps	Right Side	10mm	Ant 11+5(11)	WWAN+DBS&non DBS	0	2402	8.72	10.5	1.507	76.87	1.084	0.01	0.001	0.002
	Bluetooth	1Mbps	Top Side	10mm	Ant 11+5(11)	WWAN+DBS&non DBS	0	2402	8.72	10.5	1.507	76.87	1.084	0.1	0.024	0.039
	Bluetooth	1Mbps	Front	10mm	Ant 5	Hotspot	0	2402	16.45	18	1.429	76.87	1.084	0.1	0.070	0.108
	Bluetooth	1Mbps	Back	10mm	Ant 5	Hotspot	0	2402	16.45	18	1.429	76.87	1.084	-0.18	0.088	0.136
	Bluetooth	1Mbps	Left Side	10mm	Ant 5	Hotspot	0	2402	16.45	18	1.429	76.87	1.084	0.1	0.001	0.002
58	Bluetooth	1Mbps	Right Side	10mm	Ant 5	Hotspot	0	2402	16.45	18	1.429	76.87	1.084	0.05	0.173	0.268
	Bluetooth	1Mbps	Top Side	10mm	Ant 5	Hotspot	0	2402	16.45	18	1.429	76.87	1.084	0.12	0.001	0.002
	Bluetooth	1Mbps	Front	10mm	Ant 11+5(5)	WWAN+DBS&non DBS	0	2402	9.69	11.5	1.517	76.87	1.084	0.14	0.001	0.002
	Bluetooth	1Mbps	Back	10mm	Ant 11+5(5)	WWAN+DBS&non DBS	0	2402	9.69	11.5	1.517	76.87	1.084	0.11	0.001	0.002
	Bluetooth	1Mbps	Left Side	10mm	Ant 11+5(5)	WWAN+DBS&non DBS	0	2402	9.69	11.5	1.517	76.87	1.084	-0.05	0.001	0.002
	Bluetooth	1Mbps	Right Side	10mm	Ant 11+5(5)	WWAN+DBS&non DBS	0	2402	9.69	11.5	1.517	76.87	1.084	0.18	0.029	0.048
	Bluetooth	1Mbps	Top Side	10mm	Ant 11+5(5)	WWAN+DBS&non DBS	0	2402	9.69	11.5	1.517	76.87	1.084	0.14	0.001	0.002



16.3 Body Worn Accessory SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 4 Tx slots	Front	5mm	Ant 0	ECI3	Main PA	189	836.4	-	26.65	28.00	1.365	0.01	0.438	0.598
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 0	ECI3	Main PA	189	836.4	-	26.65	28.00	1.365	-0.05	0.493	0.673
	GSM850	GPRS 4 Tx slots	Front	15mm	Ant 1	ECI4	Main PA	189	836.4	-	27.12	29.00	1.542	-0.07	0.541	0.834
	GSM850	GPRS 4 Tx slots	Front	15mm	Ant 1	ECI4	Main PA	128	824.2	-	27.07	29.00	1.56	0.18	0.527	0.822
	GSM850	GPRS 4 Tx slots	Front	15mm	Ant 1	ECI4	Main PA	251	848.8	-	27.09	29.00	1.552	0.09	0.525	0.815
59	GSM850	GPRS 4 Tx slots	Back	15mm	Ant 1	ECI4	Main PA	189	836.4	-	27.12	29.00	1.542	-0.03	0.656	1.012
	GSM850	GPRS 4 Tx slots	Back	15mm	Ant 1	ECI4	Main PA	128	824.2	-	27.07	29.00	1.56	-0.12	0.647	1.009
	GSM850	GPRS 4 Tx slots	Back	15mm	Ant 1	ECI4	Main PA	251	848.8	-	27.09	29.00	1.552	0.12	0.632	0.981
	GSM850	GPRS 4 Tx slots	Front	5mm	Ant 1	ECI3	Main PA	189	836.4	-	22.47	24.00	1.422	0.05	0.556	0.791
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	ECI3	Main PA	189	836.4	-	22.47	24.00	1.422	-0.11	0.586	0.833
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	ECI3	Main PA	128	824.2	-	22.40	24.00	1.445	0.12	0.574	0.829
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	ECI3	Main PA	251	848.8	-	22.44	24.00	1.432	-0.16	0.582	0.833
	GSM1900	GPRS 4 Tx slots	Front	15mm	Ant 2	ECI4	Main PA	661	1880	-	24.17	25.00	1.211	-0.03	0.099	0.120
	GSM1900	GPRS 4 Tx slots	Back	15mm	Ant 2	ECI4	Main PA	661	1880	-	24.17	25.00	1.211	-0.05	0.119	0.144
	GSM1900	GPRS 4 Tx slots	Front	5mm	Ant 2	ECI3	Main PA	661	1880	-	22.62	23.50	1.225	0.14	0.574	0.703
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 2	ECI3	Main PA	661	1880	-	22.62	23.50	1.225	-0.11	0.682	0.835
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 2	ECI3	Main PA	512	1850.2	-	22.58	23.50	1.236	0.14	0.683	0.844
60	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 2	ECI3	Main PA	810	1909.8	-	22.55	23.50	1.245	-0.08	0.800	0.996
	GSM1900	GPRS 4 Tx slots	Front	5mm	Ant 4	ECI3	Main PA	661	1880	-	22.79	24.00	1.321	-0.04	0.454	0.600
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 4	ECI3	Main PA	661	1880	-	22.79	24.00	1.321	-0.05	0.643	0.849
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 4	ECI3	Main PA	512	1850.2	-	22.74	24.00	1.337	0.01	0.630	0.842
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 4	ECI3	Main PA	810	1909.8	-	22.78	24.00	1.324	-0.18	0.623	0.825

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	15mm	Ant 2	ECI4	Main PA	9400	1880	-	24.04	25.00	1.247	-0.06	0.233	0.291
	WCDMA II	RMC 12.2Kbps	Back	15mm	Ant 2	ECI4	Main PA	9400	1880	-	24.04	25.00	1.247	-0.01	0.274	0.342
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 2	ECI3	Main PA	9400	1880	-	18.55	19.50	1.245	-0.08	0.608	0.757
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	ECI3	Main PA	9400	1880	-	18.55	19.50	1.245	0.09	0.735	0.915
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	ECI3	Main PA	9262	1852.4	-	18.51	19.50	1.256	-0.19	0.682	0.857
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	ECI3	Main PA	9538	1907.6	-	18.53	19.50	1.25	-0.15	0.844	1.055
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 4	ECI3	Main PA	9400	1880	-	19.65	21.00	1.365	-0.17	0.581	0.793
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 4	ECI3	Main PA	9400	1880	-	19.65	21.00	1.365	0.09	0.741	1.011
61	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 4	ECI3	Main PA	9262	1852.4	-	19.62	21.00	1.374	-0.01	0.783	1.076
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 4	ECI3	Main PA	9538	1907.6	-	19.61	21.00	1.377	0.02	0.759	1.045
	WCDMA IV	RMC 12.2Kbps	Front	15mm	Ant 2	ECI4	Main PA	1413	1732.6	-	23.79	25.00	1.321	0.11	0.309	0.408
	WCDMA IV	RMC 12.2Kbps	Back	15mm	Ant 2	ECI4	Main PA	1413	1732.6	-	23.79	25.00	1.321	0.12	0.403	0.532
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 2	ECI3	Main PA	1413	1732.6	-	18.57	19.50	1.239	-0.07	0.659	0.817
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 2	ECI3	Main PA	1312	1712.4	-	18.55	19.50	1.245	-0.01	0.687	0.855
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 2	ECI3	Main PA	1513	1752.6	-	18.56	19.50	1.242	-0.03	0.640	0.795
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	ECI3	Main PA	1413	1732.6	-	18.57	19.50	1.239	0.15	0.831	1.030
62	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	ECI3	Main PA	1312	1712.4	-	18.55	19.50	1.245	-0.04	0.860	1.071
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	ECI3	Main PA	1513	1752.6	-	18.56	19.50	1.242	0.04	0.793	0.985
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 4	ECI3	Main PA	1413	1732.6	-	18.58	20.00	1.387	-0.15	0.627	0.870
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 4	ECI3	Main PA	1312	1712.4	-	18.56	20.00	1.393	-0.17	0.588	0.819
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 4	ECI3	Main PA	1513	1752.6	-	18.53	20.00	1.403	0.18	0.598	0.839
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 4	ECI3	Main PA	1413	1732.6	-	18.58	20.00	1.387	0.03	0.742	1.029
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 4	ECI3	Main PA	1312	1712.4	-	18.56	20.00	1.393	0.06	0.723	1.007
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 4	ECI3	Main PA	1513	1752.6	-	18.53	20.00	1.403	0.03	0.759	1.065
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 0	ECI3	Main PA	4182	836.4	-	24.14	25.00	1.219	0.19	0.462	0.563
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	ECI3	Main PA	4182	836.4	-	24.14	25.00	1.219	0.02	0.543	0.662
	WCDMA V	RMC 12.2Kbps	Front	15mm	Ant 1	ECI4	Main PA	4182	836.4	-	24.48	25.70	1.324	-0.16	0.578	0.765
	WCDMA V	RMC 12.2Kbps	Back	15mm	Ant 1	ECI4	Main PA	4182	836.4	-	24.48	25.70	1.324	0.12	0.595	0.788
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 1	ECI3	Main PA	4182	836.4	-	20.06	21.20	1.3	0.18	0.793	1.031
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 1	ECI3	Main PA	4132	826.4	-	20.05	21.20	1.303	0.01	0.781	1.018
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 1	ECI3	Main PA	4233	846.6	-	20.04	21.20	1.306	-0.14	0.788	1.029
63	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	ECI3	Main PA	4182	836.4	-	20.06	21.20	1.3	-0.17	0.832	1.082
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	ECI3	Main PA	4132	826.4	-	20.05	21.20	1.303	0.12	0.827	1.078
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	ECI3	Main PA	4233	846.6	-	20.04	21.20	1.306	0.18	0.787	1.028



【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 2	ECI4	Main PA	21100	2535	-	25.25	25.70	1.109			-0.04	0.600	0.665
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 2	ECI4	Main PA	21100	2535	-	24.21	24.70	1.119			0.15	0.463	0.518
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 2	ECI4	Main PA	21100	2535	-	25.25	25.70	1.109			-0.02	0.717	0.795
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 2	ECI4	Main PA	21100	2535	-	24.21	24.70	1.119			0.12	0.569	0.637
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 2	ECI3	Main PA	21100	2535	-	17.89	18.20	1.074			0.05	0.630	0.677
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 2	ECI3	Main PA	21100	2535	-	17.82	18.20	1.091			-0.15	0.637	0.695
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	21100	2535	-	17.89	18.20	1.074			0.05	0.846	0.909
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	20850	2510	-	17.81	18.20	1.094			0.02	0.784	0.858
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	21350	2560	-	17.83	18.20	1.089			-0.07	0.752	0.819
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	21100	2535	-	17.82	18.20	1.091			-0.11	0.755	0.824
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	20850	2510	-	17.78	18.20	1.102			-0.11	0.804	0.886
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	21350	2560	-	17.79	18.20	1.099			0.08	0.766	0.842
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 2	ECI3	Main PA	21100	2535	-	17.80	18.20	1.096			0.00	0.481	0.527
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 3	ECI4	Main PA	21100	2535	-	25.25	25.70	1.109			0.10	0.428	0.475
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 3	ECI4	Main PA	21100	2535	-	24.21	24.70	1.119			0.18	0.348	0.389
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 3	ECI4	Main PA	21100	2535	-	25.25	25.70	1.109			-0.01	0.679	0.753
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 3	ECI4	Main PA	21100	2535	-	24.21	24.70	1.119			-0.08	0.518	0.580
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 3	ECI3	Main PA	21100	2535	-	19.28	19.70	1.102			-0.09	0.516	0.569
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 3	ECI3	Main PA	21100	2535	-	19.26	19.70	1.107			-0.19	0.508	0.562
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	21100	2535	-	19.28	19.70	1.102			0.01	0.616	0.679
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	21100	2535	-	19.26	19.70	1.107			-0.19	0.604	0.669
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 4	ECI3	Main PA	21100	2535	-	20.26	21.20	1.242			0.09	0.653	0.811
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 4	ECI3	Main PA	20850	2510	-	20.22	21.20	1.253			-0.18	0.633	0.793
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 4	ECI3	Main PA	21350	2560	-	20.23	21.20	1.25			-0.09	0.622	0.778
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 4	ECI3	Main PA	21100	2535	-	20.21	21.20	1.256			-0.09	0.639	0.803
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 4	ECI3	Main PA	20850	2510	-	20.18	21.20	1.265			0.07	0.620	0.784
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 4	ECI3	Main PA	21350	2560	-	20.16	21.20	1.271			0.11	0.588	0.747
	LTE Band 7	20M	QPSK	100	0	Front	5mm	Ant 4	ECI3	Main PA	21100	2535	-	20.12	21.20	1.282			0.14	0.608	0.779
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	21100	2535	-	20.26	21.20	1.242			0.13	0.864	1.073
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	20850	2510	-	20.22	21.20	1.253			-0.10	0.830	1.040
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	21350	2560	-	20.23	21.20	1.25			-0.06	0.866	1.083
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	21100	2535	-	20.21	21.20	1.256			-0.15	0.838	1.053
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	20850	2510	-	20.18	21.20	1.265			0.06	0.840	1.063
64	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	21350	2560	-	20.16	21.20	1.271			-0.05	0.854	1.085
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 4	ECI3	Main PA	21100	2535	-	20.12	21.20	1.282			0.15	0.559	0.717
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 5	ECI3	Main PA	21100	2535	10	19.11	20.00	1.227			-0.13	0.595	0.730
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 5	ECI3	Main PA	21100	2535	10	19.06	20.00	1.242			-0.03	0.620	0.770
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	21100	2535	10	19.11	20.00	1.227			0.02	0.706	0.866
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	20850	2510	10	19.06	20.00	1.242			-0.11	0.536	0.666
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	21350	2560	10	19.08	20.00	1.236			-0.05	0.742	0.917
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	21100	2535	10	19.06	20.00	1.242			-0.09	0.714	0.887
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	20850	2510	10	19.03	20.00	1.25			0.09	0.580	0.725
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	21350	2560	10	19.02	20.00	1.253			-0.00	0.735	0.921
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 5	ECI3	Main PA	21100	2535	10	19.04	20.00	1.247			0.11	0.452	0.564
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 0	ECI3	Main PA	23095	707.5	-	24.56	25.50	1.242			-0.06	0.506	0.628
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 0	ECI3	Main PA	23095	707.5	-	23.47	24.50	1.268			-0.06	0.411	0.521
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 0	ECI3	Main PA	23095	707.5	-	24.56	25.50	1.242			-0.02	0.578	0.718
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 0	ECI3	Main PA	23095	707.5	-	23.47	24.50	1.268			0.04	0.475	0.602
	LTE Band 12	10M	QPSK	1	0	Front	15mm	Ant 1	ECI4	Main PA	23095	707.5	-	25.25	25.70	1.109			-0.03	0.506	0.561
	LTE Band 12	10M	QPSK	25	0	Front	15mm	Ant 1	ECI4	Main PA	23095	707.5	-	24.23	24.70	1.114			-0.18	0.432	0.481
	LTE Band 12	10M	QPSK	1	0	Back	15mm	Ant 1	ECI4	Main PA	23095	707.5	-	25.25	25.70	1.109			-0.05	0.538	0.597
	LTE Band 12	10M	QPSK	25	0	Back	15mm	Ant 1	ECI4	Main PA	23095	707.5	-	24.23	24.70	1.114			0.04	0.464	0.517
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 1	ECI3	Main PA	23095	707.5	-	21.72	22.20	1.117			0.15	0.776	0.867
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 1	ECI3	Main PA	23095	707.5	-	21.67	22.20	1.13			-0.02	0.784	0.886
	LTE Band 12	10M	QPSK	50	0	Front	5mm	Ant 1	ECI3	Main PA	23095	707.5	-	21.62	22.20	1.143			-0.16	0.753	0.861
65	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 1	ECI3	Main PA	23095	707.5	-	21.72	22.20	1.117			-0.02	0.828	0.925
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 1	ECI3	Main PA	23095	707.5	-	21.67	22.20	1.13			0.02	0.803	0.907
	LTE Band 12	10M	QPSK	50	0	Back	5mm	Ant 1	ECI3	Main PA	23095	707.5	-	21.62	22.20	1.143			0.10	0.796	0.910
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 0	ECI3	Main PA	23230	782	-	24.75	25.50	1.189			0.08	0.434	0.516
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 0	ECI3	Main PA	23230	782	-	23.87	24.50	1.156			-0.10	0.370	0.428
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 0	ECI3	Main PA	23230	782	-	24.75	25.50	1.189			0.01	0.504	0.599
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 0	ECI3	Main PA	23230	782	-	23.87	24.50	1.156			-0.07	0.404	0.467
	LTE Band 13	10M	QPSK	1	0	Front	15mm	Ant 1	ECI4	Main PA	23230	782	-	25.20	25.70	1.122			0.02	0.264	0.296
	LTE Band 13	10M	QPSK	25	0	Front	15mm	Ant 1	ECI4	Main PA	23230	782	-	24.26	24.70	1.107			-0.15	0.207	0.229
	LTE Band 13	10M	QPSK	1	0	Back	15mm	Ant 1	ECI4	Main PA	23230	782	-	25.20	25.70	1.122			-0.08	0.313	0.351
	LTE Band 13	10M	QPSK	25	0	Back	15mm	Ant 1	ECI4	Main PA	23230	782	-	24.26	24.70	1.107			0.14	0.245	0.271
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 1	ECI3	Main PA	23230	782	-	22.18	22.70	1.127			0.10	0.913	1.029
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 1	ECI3	Main PA	23230	782	-	22.12	22.70	1.143			0.13	0.698	0.798



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66	LTE Band 13	10M	QPSK	50	0	Front	5mm	Ant 1	ECI3	Main PA	23230	782	-	22.10	22.70	1.148			0.11	0.674	0.774
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 1	ECI3	Main PA	23230	782	-	22.18	22.70	1.127			-0.08	0.955	1.076
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 1	ECI3	Main PA	23230	782	-	22.12	22.70	1.143			0.03	0.746	0.853
	LTE Band 13	10M	QPSK	50	0	Back	5mm	Ant 1	ECI3	Main PA	23230	782	-	22.10	22.70	1.148			-0.08	0.722	0.829
	LTE Band 25	20M	QPSK	1	0	Front	15mm	Ant 2	ECI4	Main PA	26340	1880	-	24.27	25.00	1.183			-0.01	0.259	0.306
	LTE Band 25	20M	QPSK	50	0	Front	15mm	Ant 2	ECI4	Main PA	26340	1880	-	23.14	24.00	1.219			0.17	0.203	0.247
	LTE Band 25	20M	QPSK	1	0	Back	15mm	Ant 2	ECI4	Main PA	26340	1880	-	24.27	25.00	1.183			-0.06	0.323	0.382
	LTE Band 25	20M	QPSK	50	0	Back	15mm	Ant 2	ECI4	Main PA	26340	1880	-	23.14	24.00	1.219			-0.14	0.251	0.306
	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 2	ECI4-1	Other PA	18900	1880	-	24.38	25.50	1.294			-0.06	0.281	0.364
	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 2	ECI4-2	Other PA-1	18900	1880	-	24.34	25.00	1.164			0.04	0.295	0.343
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 2	ECI3	Main PA	26340	1880	-	19.31	20.00	1.172			0.18	0.613	0.718
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 2	ECI3	Main PA	26340	1880	-	19.25	20.00	1.189			-0.12	0.605	0.719
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	26340	1880	-	19.31	20.00	1.172			-0.02	0.786	0.921
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	26140	1860	-	19.25	20.00	1.189			0.05	0.727	0.864
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	26590	1905	-	19.23	20.00	1.194			0.05	0.805	0.961
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	26340	1880	-	19.25	20.00	1.189			-0.10	0.780	0.927
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	26140	1860	-	19.20	20.00	1.202			-0.17	0.729	0.876
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	26590	1905	-	19.21	20.00	1.199			-0.12	0.815	0.977
	LTE Band 25	20M	QPSK	100	0	Back	5mm	Ant 2	ECI3	Main PA	26340	1880	-	19.22	20.00	1.197			0.02	0.795	0.952
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3-1	Other PA	18900	1880	-	19.35	20.50	1.303			0.01	0.693	0.903
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3-1	Other PA	18700	1860	-	19.31	20.50	1.315			-0.07	0.641	0.843
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3-1	Other PA	19100	1900	-	19.32	20.50	1.312			-0.05	0.671	0.880
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3-2	Other PA-1	18900	1880	-	19.27	20.00	1.183			0.06	0.690	0.816
	LTE Band 25	20M	QPSK	1	0	Front	15mm	Ant 3	ECI4	Main PA	26340	1880	1	23.96	25.50	1.426			-0.16	0.390	0.556
	LTE Band 25	20M	QPSK	50	0	Front	15mm	Ant 3	ECI4	Main PA	26340	1880	1	22.79	24.50	1.483			-0.10	0.294	0.436
	LTE Band 25	20M	QPSK	1	0	Back	15mm	Ant 3	ECI4	Main PA	26340	1880	1	23.96	25.50	1.426			-0.01	0.474	0.676
	LTE Band 25	20M	QPSK	50	0	Back	15mm	Ant 3	ECI4	Main PA	26340	1880	1	22.79	24.50	1.483			-0.17	0.363	0.538
	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 3	ECI4-1	Other PA	18900	1880	1	24.32	24.70	1.091			0.03	0.517	0.564
	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 3	ECI4-2	Other PA-1	18900	1880	1	23.97	25.50	1.422			0.06	0.462	0.657
	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 3	ECI4-1	Other PA	18900	1880	2	24.32	24.70	1.091			0.06	0.360	0.393
	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 3	ECI4-2	Other PA-1	18900	1880	2	23.97	25.50	1.422			0.05	0.253	0.360
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 3	ECI3	Main PA	26340	1880	1	17.78	19.00	1.324			0.06	0.591	0.782
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 3	ECI3	Main PA	26340	1880	1	17.72	19.00	1.343			-0.08	0.527	0.708
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	26340	1880	1	17.78	19.00	1.324			-0.12	0.623	0.825
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	26140	1860	1	17.76	19.00	1.33			-0.10	0.727	0.967
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	26590	1905	1	17.74	19.00	1.337			0.18	0.530	0.709
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	26340	1880	1	17.72	19.00	1.343			-0.05	0.613	0.823
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	26140	1860	1	17.66	19.00	1.361			0.01	0.723	0.984
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	26590	1905	1	17.68	19.00	1.355			-0.15	0.507	0.687
	LTE Band 25	20M	QPSK	100	0	Back	5mm	Ant 3	ECI3	Main PA	26340	1880	1	17.67	19.00	1.358			0.06	0.576	0.782
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3-1	Other PA	18900	1880	1	17.85	18.20	1.084			-0.02	0.693	0.751
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3-2	Other PA-1	18900	1880	1	17.47	19.00	1.422			0.01	0.625	0.889
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3-2	Other PA-1	18700	1860	1	17.41	19.00	1.442			-0.05	0.614	0.885
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3-2	Other PA-1	19100	1900	1	17.43	19.00	1.435			0.04	0.607	0.871
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3-1	Other PA	18900	1880	2	17.85	18.20	1.084			0.08	0.398	0.431
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3-2	Other PA-1	18900	1880	2	17.47	19.00	1.422			0.07	0.377	0.536
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 4	ECI3	Main PA	26340	1880	-	19.67	21.00	1.358			0.00	0.558	0.758
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 4	ECI3	Main PA	26340	1880	-	19.63	21.00	1.371			0.15	0.559	0.766
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	26340	1880	-	19.67	21.00	1.358			-0.17	0.711	0.966
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	26140	1860	-	19.66	21.00	1.361			0.14	0.756	1.029
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	26590	1905	-	19.65	21.00	1.365			0.13	0.724	0.988
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	26340	1880	-	19.63	21.00	1.371			0.07	0.714	0.979
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	26140	1860	-	19.61	21.00	1.377			0.01	0.764	1.052
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	26590	1905	-	19.59	21.00	1.384			-0.13	0.736	1.019
	LTE Band 25	20M	QPSK	100	0	Back	5mm	Ant 4	ECI3	Main PA	26340	1880	-	19.50	21.00	1.413			-0.08	0.716	1.012
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3-1	Other PA	18900	1880	-	19.20	21.00	1.514			0.03	0.627	0.949
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3-2	Other PA-1	18900	1880	-	19.43	21.00	1.435			-0.15	0.533	0.765
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 5	ECI3	Main PA	26340	1880	0	18.78	20.00	1.324			0.08	0.589	0.780
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 5	ECI3	Main PA	26340	1880	0	18.76	20.00	1.33			0.00	0.590	0.785
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	26340	1880	0	18.78	20.00	1.324			0.11	0.769	1.018
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	26140	1860	0	18.76	20.00	1.33			-0.12	0.816	1.085
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	26590	1905	1C	18.74	20.00	1.337			0.08	0.654	0.874
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	26340	1880	0	18.76	20.00	1.33			-0.04	0.746	0.992
67	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	26140	1860	0	18.69	20.00	1.352			0.03	0.805	1.088
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	26590	1905	1C	18.73	20.00	1.34			-0.14	0.657	0.880
	LTE Band 25	20M	QPSK	100	0	Back	5mm	Ant 5	ECI3	Main PA	26340	1880	0	18.69	20.00	1.352			0.00	0.740	1.000
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3-1	Other PA	18900	1880	0	18.19	20.00	1.517			-0.18	0.604	0.916
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3-2	Other PA-1	18900	1880	0	18.14	20.00	1.535			0.06	0.671	1.030
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 0	ECI3	Main PA	26865	831.5	-	24.73	25.20	1.114			-0.17	0.598	0.666
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 0	ECI3	Main PA	26865	831.5	-	24.15	24.70	1.135			0.01	0.566	0.642
	LTE Band 2																				



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	LTE Band 5	10M	QPSK	1	0	Back	5mm	Ant 0	ECI3-1	Other PA	20525	836.5	4	24.79	25.50	1.178			0.06	0.344	0.405
	LTE Band 26	15M	QPSK	1	0	Front	15mm	Ant 1	ECI4	Main PA	26865	831.5	-	25.11	25.70	1.146			0.11	0.241	0.276
	LTE Band 26	15M	QPSK	36	0	Front	15mm	Ant 1	ECI4	Main PA	26865	831.5	-	24.10	24.70	1.148			-0.07	0.192	0.220
	LTE Band 26	15M	QPSK	1	0	Back	15mm	Ant 1	ECI4	Main PA	26865	831.5	-	25.11	25.70	1.146			-0.11	0.278	0.319
	LTE Band 26	15M	QPSK	36	0	Back	15mm	Ant 1	ECI4	Main PA	26865	831.5	-	24.10	24.70	1.148			-0.03	0.207	0.238
	LTE Band 5	10M	QPSK	1	0	Back	15mm	Ant 1	ECI4-1	Other PA	20525	836.5	1	25.10	25.70	1.148			0.06	0.248	0.285
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 1	ECI3	Main PA	26865	831.5	-	21.18	21.70	1.127			-0.16	0.794	0.895
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 1	ECI3	Main PA	26865	831.5	-	21.12	21.70	1.143			0.05	0.612	0.700
	LTE Band 26	15M	QPSK	75	0	Front	5mm	Ant 1	ECI3	Main PA	26865	831.5	-	21.06	21.70	1.159			0.14	0.570	0.661
68	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	ECI3	Main PA	26865	831.5	-	21.18	21.70	1.127			-0.08	0.892	1.005
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 1	ECI3	Main PA	26865	831.5	-	21.12	21.70	1.143			0.17	0.668	0.764
	LTE Band 26	15M	QPSK	75	0	Back	5mm	Ant 1	ECI3	Main PA	26865	831.5	-	21.06	21.70	1.159			-0.04	0.612	0.709
	LTE Band 5	10M	QPSK	1	0	Back	5mm	Ant 1	ECI3-1	Other PA	20525	836.5	1	20.59	21.20	1.151			-0.02	0.781	0.899
	LTE Band 66	20M	QPSK	1	0	Front	15mm	Ant 2	ECI4	Main PA	132322	1745	-	25.17	25.70	1.13			0.17	0.349	0.394
	LTE Band 66	20M	QPSK	50	0	Front	15mm	Ant 2	ECI4	Main PA	132322	1745	-	24.27	24.70	1.104			-0.06	0.288	0.318
	LTE Band 66	20M	QPSK	1	0	Back	15mm	Ant 2	ECI4	Main PA	132322	1745	-	25.17	25.70	1.13			0.17	0.474	0.536
	LTE Band 66	20M	QPSK	50	0	Back	15mm	Ant 2	ECI4	Main PA	132322	1745	-	24.27	24.70	1.104			-0.00	0.388	0.428
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	ECI3	Main PA	132322	1745	-	19.04	19.70	1.164			0.05	0.700	0.815
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	ECI3	Main PA	132072	1720	-	19.03	19.70	1.167			0.05	0.682	0.796
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	ECI3	Main PA	132572	1770	-	19.02	19.70	1.169			0.08	0.709	0.829
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 2	ECI3	Main PA	132322	1745	-	19.03	19.70	1.167			0.04	0.767	0.895
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 2	ECI3	Main PA	132072	1720	-	18.99	19.70	1.178			0.10	0.734	0.865
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 2	ECI3	Main PA	132572	1770	-	18.98	19.70	1.18			-0.16	0.776	0.916
	LTE Band 66	20M	QPSK	100	0	Front	5mm	Ant 2	ECI3	Main PA	132322	1745	-	19.00	19.70	1.175			-0.19	0.767	0.901
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	132322	1745	-	19.04	19.70	1.164			0.02	0.870	1.013
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	132072	1720	-	19.03	19.70	1.167			-0.00	0.854	0.997
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	132572	1770	-	19.02	19.70	1.169			-0.00	0.878	1.026
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	132322	1745	-	19.03	19.70	1.167			-0.04	0.881	1.028
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	132072	1720	-	18.99	19.70	1.178			-0.17	0.845	0.995
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	132572	1770	-	18.98	19.70	1.18			-0.06	0.890	1.050
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 2	ECI3	Main PA	132322	1745	-	19.00	19.70	1.175			0.01	0.873	1.026
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3-1	Other PA	132572	1770	-	18.86	19.70	1.213			0.07	0.808	0.980
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3-2	Other PA-1	132572	1770	-	19.02	20.00	1.253			-0.15	0.828	1.037
	LTE Band 66	20M	QPSK	1	0	Front	15mm	Ant 3	ECI4	Main PA	132322	1745	0	24.78	25.70	1.236			-0.16	0.636	0.786
	LTE Band 66	20M	QPSK	50	0	Front	15mm	Ant 3	ECI4	Main PA	132322	1745	0	23.87	24.70	1.211			-0.07	0.518	0.627
	LTE Band 66	20M	QPSK	1	0	Back	15mm	Ant 3	ECI4	Main PA	132322	1745	0	24.78	25.70	1.236			-0.06	0.811	1.002
	LTE Band 66	20M	QPSK	1	0	Back	15mm	Ant 3	ECI4	Main PA	132072	1720	0	24.74	25.70	1.247			0.05	0.702	0.875
	LTE Band 66	20M	QPSK	1	0	Back	15mm	Ant 3	ECI4	Main PA	132572	1770	0	24.70	25.70	1.259			-0.17	0.774	0.974
	LTE Band 66	20M	QPSK	50	0	Back	15mm	Ant 3	ECI4	Main PA	132322	1745	0	23.87	24.70	1.211			-0.13	0.620	0.751
	LTE Band 66	20M	QPSK	100	0	Back	15mm	Ant 3	ECI4	Main PA	132322	1745	0	23.89	24.70	1.205			-0.03	0.617	0.743
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 3	ECI3	Main PA	132322	1745	0	17.24	18.20	1.247			-0.05	0.765	0.954
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 3	ECI3	Main PA	132072	1720	0	17.20	18.20	1.259			0.15	0.674	0.849
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 3	ECI3	Main PA	132572	1770	0	17.21	18.20	1.256			-0.04	0.738	0.927
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 3	ECI3	Main PA	132322	1745	0	17.18	18.20	1.265			-0.12	0.763	0.965
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 3	ECI3	Main PA	132072	1720	0	17.16	18.20	1.271			0.12	0.694	0.882
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 3	ECI3	Main PA	132572	1770	0	17.15	18.20	1.274			0.04	0.721	0.919
	LTE Band 66	20M	QPSK	100	0	Front	5mm	Ant 3	ECI3	Main PA	132322	1745	0	17.15	18.20	1.274			-0.04	0.734	0.935
69	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	132322	1745	0	17.24	18.20	1.247			-0.01	0.849	1.059
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	132072	1720	0	17.20	18.20	1.259			0.04	0.777	0.978
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	132572	1770	0	17.21	18.20	1.256			-0.03	0.810	1.017
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	132322	1745	0	17.18	18.20	1.265			0.03	0.833	1.054
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	132072	1720	0	17.16	18.20	1.271			0.03	0.792	1.007
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	132572	1770	0	17.15	18.20	1.274			0.06	0.783	0.998
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 3	ECI3	Main PA	132322	1745	0	17.15	18.20	1.274			0.03	0.826	1.052
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3-1	Other PA	132322	1745	0	17.75	18.20	1.109			-0.06	0.880	0.976
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3-2	Other PA-1	132322	1745	0	17.28	19.00	1.486			-0.04	0.703	1.045
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 4	ECI3	Main PA	132322	1745	-	18.18	19.20	1.265			-0.16	0.589	0.745
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 4	ECI3	Main PA	132322	1745	-	18.10	19.20	1.288			0.14	0.592	0.762
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	132322	1745	-	18.18	19.20	1.265			0.16	0.698	0.883
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	132072	1720	-	18.15	19.20	1.274			-0.11	0.674	0.859
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	132572	1770	-	18.14	19.20	1.276			0.19	0.682	0.870
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	132322	1745	-	18.10	19.20	1.288			0.17	0.698	0.899
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	132072	1720	-	18.06	19.20	1.3			0.03	0.682	0.887
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	132572	1770	-	18.07	19.20	1.297			-0.14	0.688	0.892
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 4	ECI3	Main PA	132322	1745	-	17.97	19.20	1.327			-0.06	0.703	0.933
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 4	ECI3-1	Other PA	132322	1745	-	18.00	18.70	1.175			-0.02	0.753	0.885
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 4	ECI3-2	Other PA-1	132322	1745	-	17.71	19.50	1.51			-0.05	0.616	0.930
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 5	ECI3	Main PA	132322	1745	8	18.05	19.50	1.396			0.18	0.602	0.840
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 5	ECI3	Main PA	132072	1720	9	17.99	19.50	1.416			-0.12	0.609	0.862
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 5	ECI3	Main PA	132572	1770	4	17.98	19.50	1.419			0.11	0.615	0.873
	LTE Band 66																				



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	LTE Band 66	20M	QPSK	100	0	Front	5mm	Ant 5	ECI3	Main PA	132322	1745	8	17.90	19.50	1.445			-0.01	0.638	0.922
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	132322	1745	8	18.05	19.50	1.396			0.05	0.732	1.022
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	132072	1720	9	17.99	19.50	1.416			-0.15	0.707	1.001
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	132572	1770	4	17.98	19.50	1.419			-0.12	0.719	1.020
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	132322	1745	8	17.93	19.50	1.435			-0.14	0.726	1.042
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	132072	1720	9	17.89	19.50	1.449			0.14	0.707	1.024
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	132572	1770	4	17.88	19.50	1.452			0.11	0.713	1.035
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 5	ECI3	Main PA	132322	1745	8	17.90	19.50	1.445			-0.15	0.729	1.053
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 5	ECI3-1	Other PA	132322	1745	8	18.01	19.50	1.409			-0.03	0.601	0.847
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 5	ECI3-2	Other PA-1	132322	1745	8	17.61	19.50	1.545			0.01	0.655	1.012
	LTE Band 71	20M	QPSK	1	0	Front	5mm	Ant 0	ECI3	Main PA	133297	680.5	2	24.12	25.00	1.225			0.07	0.300	0.368
	LTE Band 71	20M	QPSK	50	0	Front	5mm	Ant 0	ECI3	Main PA	133297	680.5	2	23.17	24.00	1.211			0.07	0.230	0.279
	LTE Band 71	20M	QPSK	1	0	Back	5mm	Ant 0	ECI3	Main PA	133297	680.5	2	24.12	25.00	1.225			0.02	0.331	0.405
	LTE Band 71	20M	QPSK	50	0	Back	5mm	Ant 0	ECI3	Main PA	133297	680.5	2	23.17	24.00	1.211			-0.12	0.291	0.352
	LTE Band 71	20M	QPSK	1	0	Front	15mm	Ant 1	ECI4	Main PA	133297	680.5	-	24.77	25.70	1.239			0.06	0.230	0.285
	LTE Band 71	20M	QPSK	50	0	Front	15mm	Ant 1	ECI4	Main PA	133297	680.5	-	23.82	24.70	1.225			-0.08	0.210	0.257
	LTE Band 71	20M	QPSK	1	0	Back	15mm	Ant 1	ECI4	Main PA	133297	680.5	-	24.77	25.70	1.239			-0.08	0.269	0.333
	LTE Band 71	20M	QPSK	50	0	Back	15mm	Ant 1	ECI4	Main PA	133297	680.5	-	23.82	24.70	1.225			-0.15	0.235	0.288
	LTE Band 71	20M	QPSK	1	0	Front	5mm	Ant 1	ECI3	Main PA	133297	680.5	-	22.23	23.20	1.25			0.16	0.811	1.014
	LTE Band 71	20M	QPSK	50	0	Front	5mm	Ant 1	ECI3	Main PA	133297	680.5	-	22.18	23.20	1.265			0.15	0.731	0.925
	LTE Band 71	20M	QPSK	100	0	Front	5mm	Ant 1	ECI3	Main PA	133297	680.5	-	22.16	23.20	1.271			0.17	0.758	0.963
70	LTE Band 71	20M	QPSK	1	0	Back	5mm	Ant 1	ECI3	Main PA	133297	680.5	-	22.23	23.20	1.25			0.03	0.871	1.089
	LTE Band 71	20M	QPSK	50	0	Back	5mm	Ant 1	ECI3	Main PA	133297	680.5	-	22.18	23.20	1.265			0.09	0.771	0.975
	LTE Band 71	20M	QPSK	100	0	Back	5mm	Ant 1	ECI3	Main PA	133297	680.5	-	22.16	23.20	1.271			-0.12	0.765	0.972
	LTE Band 41	20M	QPSK	1	0	Front	15mm	Ant 2	ECI4	Main PA	40620	2593	-	25.23	25.70	1.114	62.9	1.006	-0.09	0.369	0.414
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 2	ECI4	Main PA	40620	2593	-	24.37	24.70	1.079	62.9	1.006	-0.19	0.295	0.320
	LTE Band 41	20M	QPSK	1	0	Back	15mm	Ant 2	ECI4	Main PA	40620	2593	-	25.23	25.70	1.114	62.9	1.006	0.13	0.487	0.546
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 2	ECI4	Main PA	40620	2593	-	24.37	24.70	1.079	62.9	1.006	0.04	0.402	0.436
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	ECI3	Main PA	40620	2593	-	19.30	19.70	1.096	62.9	1.006	-0.18	0.507	0.559
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 2	ECI3	Main PA	40620	2593	-	19.26	19.70	1.107	62.9	1.006	0.08	0.509	0.567
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	40620	2593	-	19.30	19.70	1.096	62.9	1.006	-0.09	0.671	0.740
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	39750	2506	-	19.22	19.70	1.117	62.9	1.006	-0.09	0.607	0.682
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	40185	2549.5	-	19.25	19.70	1.109	62.9	1.006	-0.01	0.638	0.712
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	41055	2636.5	-	19.21	19.70	1.119	62.9	1.006	0.10	0.799	0.899
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	41490	2680	-	19.23	19.70	1.114	62.9	1.006	-0.02	0.890	0.997
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	40620	2593	-	19.26	19.70	1.107	62.9	1.006	-0.06	0.670	0.746
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	39750	2506	-	19.08	19.70	1.153	62.9	1.006	-0.00	0.628	0.728
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	40185	2549.5	-	19.18	19.70	1.127	62.9	1.006	-0.09	0.659	0.747
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	41055	2636.5	-	19.13	19.70	1.14	62.9	1.006	-0.11	0.812	0.931
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	ECI3	Main PA	41490	2680	-	19.10	19.70	1.148	62.9	1.006	0.13	0.888	1.026
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 2	ECI3	Main PA	40620	2593	-	19.10	19.70	1.148	62.9	1.006	-0.05	0.677	0.782
	LTE Band 41	20M	QPSK	1	0	Front	15mm	Ant 3	ECI4	Main PA	40620	2593	-	25.34	25.70	1.086	62.9	1.006	0.19	0.233	0.255
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 3	ECI4	Main PA	40620	2593	-	24.49	24.70	1.05	62.9	1.006	-0.04	0.195	0.206
	LTE Band 41	20M	QPSK	1	0	Back	15mm	Ant 3	ECI4	Main PA	40620	2593	-	25.34	25.70	1.086	62.9	1.006	-0.06	0.370	0.404
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 3	ECI4	Main PA	40620	2593	-	24.49	24.70	1.05	62.9	1.006	0.05	0.308	0.325
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 3	ECI3	Main PA	40620	2593	-	22.83	23.20	1.089	62.9	1.006	0.07	0.706	0.773
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 3	ECI3	Main PA	39750	2506	-	22.79	23.20	1.099	62.9	1.006	0.04	0.914	1.011
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 3	ECI3	Main PA	40185	2549.5	-	22.81	23.20	1.094	62.9	1.006	0.14	0.874	0.962
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 3	ECI3	Main PA	41055	2636.5	-	22.76	23.20	1.107	62.9	1.006	0.16	0.710	0.791
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 3	ECI3	Main PA	41490	2680	-	22.82	23.20	1.091	62.9	1.006	-0.12	0.645	0.708
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 3	ECI3	Main PA	40620	2593	-	22.81	23.20	1.094	62.9	1.006	0.05	0.681	0.749
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 3	ECI3	Main PA	39750	2506	-	22.72	23.20	1.117	62.9	1.006	-0.07	0.887	0.997
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 3	ECI3	Main PA	40185	2549.5	-	22.71	23.20	1.119	62.9	1.006	-0.07	0.837	0.942
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 3	ECI3	Main PA	41055	2636.5	-	22.73	23.20	1.114	62.9	1.006	0.05	0.686	0.769
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 3	ECI3	Main PA	41490	2680	-	22.79	23.20	1.099	62.9	1.006	-0.13	0.618	0.683
	LTE Band 41	20M	QPSK	100	0	Front	5mm	Ant 3	ECI3	Main PA	40620	2593	-	22.77	23.20	1.104	62.9	1.006	-0.04	0.547	0.608
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	40620	2593	-	22.83	23.20	1.089	62.9	1.006	0.16	0.880	0.964
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	39750	2506	-	22.79	23.20	1.099	62.9	1.006	0.03	0.926	1.024
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	40185	2549.5	-	22.81	23.20	1.094	62.9	1.006	0.17	0.909	1.000
71	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	41055	2636.5	-	22.76	23.20	1.107	62.9	1.006	0.10	0.975	1.086
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	41490	2680	-	22.82	23.20	1.091	62.9	1.006	-0.06	0.916	1.005
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	40620	2593	-	22.81	23.20	1.094	62.9	1.006	0.06	0.887	0.976
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	39750	2506	-	22.72	23.20	1.117	62.9	1.006	-0.14	0.947	1.064
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	40185	2549.5	-	22.71	23.20	1.119	62.9	1.006	0.06	0.916	1.031
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	41055	2636.5	-	22.73	23.20	1.114	62.9	1.006	0.02	0.967	1.084
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 3	ECI3	Main PA	41490	2680	-	22.79	23.20	1.099	62.9	1.006	0.05	0.904	0.999
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 3	ECI3	Main PA	40620	2593	-	22.77	23.20	1.104	62.9	1.006	0.01	0.713	0.792
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 4	ECI3	Main PA	40620	2593	-								



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	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	41490	2680	-	20.96	22.00	1.271	62.9	1.006	0.18	0.673	0.861
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	40620	2593	-	21.00	22.00	1.259	62.9	1.006	0.07	0.523	0.662
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	39750	2506	-	20.87	22.00	1.297	62.9	1.006	-0.01	0.583	0.761
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	40185	2549.5	-	20.82	22.00	1.312	62.9	1.006	0.12	0.544	0.718
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	41055	2636.5	-	20.86	22.00	1.3	62.9	1.006	-0.08	0.616	0.806
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 4	ECI3	Main PA	41490	2680	-	20.84	22.00	1.306	62.9	1.006	-0.01	0.686	0.901
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 4	ECI3	Main PA	40620	2593	-	20.99	22.00	1.262	62.9	1.006	-0.10	0.625	0.793
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 5	ECI3	Main PA	40620	2593	10	20.93	22.00	1.279	62.9	1.006	0.16	0.546	0.703
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 5	ECI3	Main PA	39750	2506	10	20.90	22.00	1.288	62.9	1.006	-0.01	0.391	0.507
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 5	ECI3	Main PA	40185	2549.5	10	20.91	22.00	1.285	62.9	1.006	0.04	0.580	0.750
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 5	ECI3	Main PA	41055	2636.5	10	20.89	22.00	1.291	62.9	1.006	0.18	0.555	0.721
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 5	ECI3	Main PA	41490	2680	10	20.91	22.00	1.285	62.9	1.006	-0.02	0.529	0.684
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 5	ECI3	Main PA	40620	2593	10	20.88	22.00	1.294	62.9	1.006	0.03	0.531	0.691
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 5	ECI3	Main PA	39750	2506	10	20.83	22.00	1.309	62.9	1.006	0.02	0.420	0.553
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 5	ECI3	Main PA	40185	2549.5	10	20.81	22.00	1.315	62.9	1.006	0.09	0.578	0.765
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 5	ECI3	Main PA	41055	2636.5	10	20.83	22.00	1.309	62.9	1.006	-0.09	0.548	0.722
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 5	ECI3	Main PA	41490	2680	10	20.84	22.00	1.306	62.9	1.006	-0.03	0.503	0.661
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	40620	2593	10	20.93	22.00	1.279	62.9	1.006	-0.10	0.696	0.896
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	39750	2506	10	20.90	22.00	1.288	62.9	1.006	-0.02	0.497	0.644
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	40185	2549.5	10	20.91	22.00	1.285	62.9	1.006	0.11	0.723	0.935
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	41055	2636.5	10	20.89	22.00	1.291	62.9	1.006	0.01	0.723	0.939
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	41490	2680	10	20.91	22.00	1.285	62.9	1.006	0.02	0.696	0.900
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	40620	2593	10	20.88	22.00	1.294	62.9	1.006	0.17	0.696	0.906
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	39750	2506	10	20.83	22.00	1.309	62.9	1.006	-0.19	0.528	0.695
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	40185	2549.5	10	20.81	22.00	1.315	62.9	1.006	-0.12	0.730	0.966
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	41055	2636.5	10	20.83	22.00	1.309	62.9	1.006	-0.17	0.730	0.961
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI3	Main PA	41490	2680	10	20.84	22.00	1.306	62.9	1.006	0.17	0.682	0.896
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 5	ECI3	Main PA	40620	2593	10	20.86	22.00	1.3	62.9	1.006	-0.07	0.539	0.705
	LTE Band 42	20M	QPSK	1	0	Front	15mm	Ant 6	ECI4	Main PA	42590	3500	2	25.45	26.00	1.135	62.9	1.006	-0.03	0.234	0.267
	LTE Band 42	20M	QPSK	50	0	Front	15mm	Ant 6	ECI4	Main PA	42590	3500	2	24.64	25.00	1.086	62.9	1.006	0.10	0.201	0.220
	LTE Band 42	20M	QPSK	1	0	Back	15mm	Ant 6	ECI4	Main PA	42590	3500	2	25.45	26.00	1.135	62.9	1.006	-0.06	0.291	0.332
	LTE Band 42	20M	QPSK	50	0	Back	15mm	Ant 6	ECI4	Main PA	42590	3500	2	24.64	25.00	1.086	62.9	1.006	0.02	0.237	0.259
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 6	ECI3	Main PA	42590	3500	2	21.68	22.00	1.076	62.9	1.006	-0.02	0.664	0.719
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 6	ECI3	Main PA	42590	3500	2	21.59	22.00	1.099	62.9	1.006	-0.16	0.646	0.714
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 6	ECI3	Main PA	42590	3500	2	21.68	22.00	1.076	62.9	1.006	0.08	0.771	0.835
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 6	ECI3	Main PA	42190	3460	2	21.63	22.00	1.089	62.9	1.006	0.01	0.780	0.855
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 6	ECI3	Main PA	42990	3540	2	21.66	22.00	1.081	62.9	1.006	-0.14	0.745	0.810
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 6	ECI3	Main PA	42590	3500	2	21.59	22.00	1.099	62.9	1.006	-0.05	0.817	0.903
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 6	ECI3	Main PA	42190	3460	2	21.53	22.00	1.114	62.9	1.006	-0.05	0.844	0.946
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 6	ECI3	Main PA	42990	3540	2	21.55	22.00	1.109	62.9	1.006	-0.04	0.770	0.859
	LTE Band 42	20M	QPSK	100	0	Back	5mm	Ant 6	ECI3	Main PA	42590	3500	2	21.54	22.00	1.112	62.9	1.006	-0.02	0.815	0.912
	LTE Band 42	20M	QPSK	1	0	Front	15mm	Ant 7	ECI4	Main PA	42590	3500	-	23.52	24.50	1.253	62.9	1.006	0.02	0.164	0.207
	LTE Band 42	20M	QPSK	50	0	Front	15mm	Ant 7	ECI4	Main PA	42590	3500	-	22.52	23.50	1.253	62.9	1.006	-0.11	0.139	0.175
	LTE Band 42	20M	QPSK	1	0	Back	15mm	Ant 7	ECI4	Main PA	42590	3500	-	23.52	24.50	1.253	62.9	1.006	0.12	0.198	0.250
	LTE Band 42	20M	QPSK	50	0	Back	15mm	Ant 7	ECI4	Main PA	42590	3500	-	22.52	23.50	1.253	62.9	1.006	-0.15	0.160	0.202
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 7	ECI3	Main PA	42590	3500	-	21.59	22.50	1.233	62.9	1.006	-0.10	0.653	0.810
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 7	ECI3	Main PA	42190	3460	-	21.55	22.50	1.245	62.9	1.006	0.09	0.622	0.779
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 7	ECI3	Main PA	42990	3540	-	21.56	22.50	1.242	62.9	1.006	-0.03	0.607	0.758
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 7	ECI3	Main PA	42590	3500	-	21.54	22.50	1.247	62.9	1.006	-0.09	0.648	0.813
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 7	ECI3	Main PA	42190	3460	-	21.51	22.50	1.256	62.9	1.006	-0.13	0.622	0.786
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 7	ECI3	Main PA	42990	3540	-	21.53	22.50	1.25	62.9	1.006	0.11	0.608	0.765
	LTE Band 42	20M	QPSK	100	0	Front	5mm	Ant 7	ECI3	Main PA	42590	3500	-	21.51	22.50	1.256	62.9	1.006	-0.01	0.617	0.780
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	ECI3	Main PA	42590	3500	-	21.59	22.50	1.233	62.9	1.006	-0.06	0.794	0.985
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	ECI3	Main PA	42190	3460	-	21.55	22.50	1.245	62.9	1.006	-0.00	0.758	0.949
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	ECI3	Main PA	42990	3540	-	21.56	22.50	1.242	62.9	1.006	0.13	0.810	1.012
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 7	ECI3	Main PA	42590	3500	-	21.54	22.50	1.247	62.9	1.006	-0.08	0.795	0.997
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 7	ECI3	Main PA	42190	3460	-	21.51	22.50	1.256	62.9	1.006	-0.15	0.768	0.970
72	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 7	ECI3	Main PA	42990	3540	-	21.53	22.50	1.25	62.9	1.006	-0.05	0.821	1.032
	LTE Band 42	20M	QPSK	100	0	Back	5mm	Ant 7	ECI3	Main PA	42590	3500	-	21.51	22.50	1.256	62.9	1.006	-0.05	0.800	1.011
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 8	ECI3	Main PA	42590	3500	1C	18.45	19.50	1.274	62.9	1.006	0.05	0.397	0.509
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 8	ECI3	Main PA	42590	3500	1C	18.37	19.50	1.297	62.9	1.006	-0.12	0.392	0.511
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 8	ECI3	Main PA	42590	3500	1C	18.45	19.50	1.274	62.9	1.006	0.06	0.532	0.682
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 8	ECI3	Main PA	42590	3500	1C	18.37	19.50	1.297	62.9	1.006	0.17	0.460	0.600
	LTE Band 42	20M	QPSK	1	0	Front	15mm	Ant 9	ECI4	Main PA	42590	3500	-	24.03	25.50	1.403	62.9	1.006	-0.17	0.254	0.359
	LTE Band 42	20M	QPSK	50	0	Front	15mm	Ant 9	ECI4	Main PA	42590	3500	-	23.13	24.50	1.371	62.9	1.006	-0.06	0.211	0.291
	LTE Band 42	20M	QPSK	1	0	Back	15mm	Ant 9	ECI4	Main PA	42590	3500	-	24.03	25.50	1.403	62.9	1.006	0.07	0.189	0.267
	LTE Band 42	20M	QPSK																		



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	LTE Band 48	20M	QPSK	1	0	Back	15mm	Ant 6	ECI4	Main PA	55830	3609	2	24.67	25.00	1.079	62.9	1.006	-0.19	0.102	0.111
	LTE Band 48	20M	QPSK	50	0	Back	15mm	Ant 6	ECI4	Main PA	55830	3609	2	23.48	24.00	1.127	62.9	1.006	0.14	0.083	0.094
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 6	ECI3	Main PA	55830	3609	2	22.13	22.50	1.089	62.9	1.006	-0.01	0.749	0.821
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 6	ECI3	Main PA	55340	3560	2	22.08	22.50	1.102	62.9	1.006	0.02	0.825	0.915
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 6	ECI3	Main PA	56150	3641	2	22.09	22.50	1.099	62.9	1.006	-0.06	0.666	0.736
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 6	ECI3	Main PA	56640	3690	2	22.12	22.50	1.091	62.9	1.006	-0.05	0.569	0.625
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 6	ECI3	Main PA	55830	3609	2	22.05	22.50	1.109	62.9	1.006	-0.07	0.551	0.615
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 6	ECI3	Main PA	55340	3560	2	22.01	22.50	1.119	62.9	1.006	-0.03	0.595	0.670
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 6	ECI3	Main PA	56150	3641	2	22.03	22.50	1.114	62.9	1.006	0.13	0.461	0.517
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 6	ECI3	Main PA	56640	3690	2	21.99	22.50	1.125	62.9	1.006	-0.09	0.401	0.454
	LTE Band 48	20M	QPSK	100	0	Front	5mm	Ant 6	ECI3	Main PA	55830	3609	2	22.00	22.50	1.122	62.9	1.006	0.13	0.575	0.649
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 6	ECI3	Main PA	55830	3609	2	22.13	22.50	1.089	62.9	1.006	0.16	0.707	0.775
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 6	ECI3	Main PA	55340	3560	2	22.08	22.50	1.102	62.9	1.006	-0.02	0.843	0.935
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 6	ECI3	Main PA	56150	3641	2	22.09	22.50	1.099	62.9	1.006	0.02	0.648	0.716
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 6	ECI3	Main PA	56640	3690	2	22.12	22.50	1.091	62.9	1.006	0.05	0.571	0.627
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 6	ECI3	Main PA	55830	3609	2	22.05	22.50	1.109	62.9	1.006	0.02	0.549	0.612
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 6	ECI3	Main PA	55340	3560	2	22.01	22.50	1.119	62.9	1.006	-0.08	0.637	0.717
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 6	ECI3	Main PA	56150	3641	2	22.03	22.50	1.114	62.9	1.006	-0.13	0.494	0.554
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 6	ECI3	Main PA	56640	3690	2	21.99	22.50	1.125	62.9	1.006	-0.08	0.440	0.498
	LTE Band 48	20M	QPSK	100	0	Back	5mm	Ant 6	ECI3	Main PA	55830	3609	2	22.00	22.50	1.122	62.9	1.006	0.04	0.637	0.719
	LTE Band 48	20M	QPSK	1	0	Front	15mm	Ant 7	ECI4	Main PA	55830	3609	-	23.10	24.00	1.23	62.9	1.006	-0.15	0.148	0.183
	LTE Band 48	20M	QPSK	50	0	Front	15mm	Ant 7	ECI4	Main PA	55830	3609	-	22.07	23.00	1.239	62.9	1.006	0.02	0.121	0.151
	LTE Band 48	20M	QPSK	1	0	Back	15mm	Ant 7	ECI4	Main PA	55830	3609	-	23.10	24.00	1.23	62.9	1.006	0.13	0.171	0.212
	LTE Band 48	20M	QPSK	50	0	Back	15mm	Ant 7	ECI4	Main PA	55830	3609	-	22.07	23.00	1.239	62.9	1.006	0.16	0.139	0.173
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 7	ECI3	Main PA	55830	3609	-	21.55	22.50	1.245	62.9	1.006	-0.08	0.662	0.829
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 7	ECI3	Main PA	55340	3560	-	21.50	22.50	1.259	62.9	1.006	-0.06	0.646	0.818
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 7	ECI3	Main PA	56150	3641	-	21.53	22.50	1.25	62.9	1.006	0.15	0.652	0.820
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 7	ECI3	Main PA	56640	3690	-	21.49	22.50	1.262	62.9	1.006	0.06	0.646	0.820
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 7	ECI3	Main PA	55830	3609	-	21.49	22.50	1.262	62.9	1.006	0.12	0.657	0.834
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 7	ECI3	Main PA	55340	3560	-	21.42	22.50	1.282	62.9	1.006	0.16	0.643	0.829
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 7	ECI3	Main PA	56150	3641	-	21.43	22.50	1.279	62.9	1.006	-0.07	0.656	0.844
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 7	ECI3	Main PA	56640	3690	-	21.46	22.50	1.271	62.9	1.006	0.05	0.655	0.838
	LTE Band 48	20M	QPSK	100	0	Front	5mm	Ant 7	ECI3	Main PA	55830	3609	-	21.46	22.50	1.271	62.9	1.006	-0.16	0.643	0.822
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	ECI3	Main PA	55830	3609	-	21.55	22.50	1.245	62.9	1.006	0.12	0.710	0.889
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	ECI3	Main PA	55340	3560	-	21.50	22.50	1.259	62.9	1.006	-0.03	0.745	0.944
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	ECI3	Main PA	56150	3641	-	21.53	22.50	1.25	62.9	1.006	-0.03	0.671	0.844
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	ECI3	Main PA	56640	3690	-	21.49	22.50	1.262	62.9	1.006	0.03	0.683	0.867
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 7	ECI3	Main PA	55830	3609	-	21.49	22.50	1.262	62.9	1.006	-0.19	0.705	0.895
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 7	ECI3	Main PA	55340	3560	-	21.42	22.50	1.282	62.9	1.006	-0.02	0.742	0.957
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 7	ECI3	Main PA	56150	3641	-	21.43	22.50	1.279	62.9	1.006	0.06	0.678	0.872
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 7	ECI3	Main PA	56640	3690	-	21.46	22.50	1.271	62.9	1.006	0.18	0.695	0.889
	LTE Band 48	20M	QPSK	100	0	Back	5mm	Ant 7	ECI3	Main PA	55830	3609	-	21.46	22.50	1.271	62.9	1.006	-0.09	0.684	0.875
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 8	ECI3	Main PA	55830	3609	1C	20.83	22.00	1.309	62.9	1.006	0.09	0.435	0.573
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 8	ECI3	Main PA	55830	3609	1C	20.73	22.00	1.34	62.9	1.006	0.00	0.442	0.596
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 8	ECI3	Main PA	55830	3609	1C	20.83	22.00	1.309	62.9	1.006	-0.18	0.708	0.932
73	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 8	ECI3	Main PA	55340	3560	1C	20.81	22.00	1.315	62.9	1.006	-0.06	0.724	0.958
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 8	ECI3	Main PA	56150	3641	1C	20.79	22.00	1.321	62.9	1.006	-0.12	0.601	0.799
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 8	ECI3	Main PA	56640	3690	1C	20.77	22.00	1.327	62.9	1.006	0.07	0.589	0.786
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 8	ECI3	Main PA	55830	3609	1C	20.73	22.00	1.34	62.9	1.006	0.12	0.630	0.849
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 8	ECI3	Main PA	55340	3560	1C	20.69	22.00	1.352	62.9	1.006	0.08	0.668	0.909
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 8	ECI3	Main PA	56150	3641	1C	20.71	22.00	1.346	62.9	1.006	0.12	0.599	0.811
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 8	ECI3	Main PA	56640	3690	1C	20.68	22.00	1.355	62.9	1.006	-0.06	0.592	0.807
	LTE Band 48	20M	QPSK	100	0	Back	5mm	Ant 8	ECI3	Main PA	55830	3609	-	20.74	22.00	1.337	62.9	1.006	0.11	0.584	0.785
	LTE Band 48	20M	QPSK	1	0	Front	15mm	Ant 9	ECI4	Main PA	55830	3609	-	23.35	24.50	1.303	62.9	1.006	-0.12	0.250	0.328
	LTE Band 48	20M	QPSK	50	0	Front	15mm	Ant 9	ECI4	Main PA	55830	3609	-	22.31	23.50	1.315	62.9	1.006	-0.04	0.211	0.279
	LTE Band 48	20M	QPSK	1	0	Back	15mm	Ant 9	ECI4	Main PA	55830	3609	-	23.35	24.50	1.303	62.9	1.006	-0.05	0.181	0.237
	LTE Band 48	20M	QPSK	50	0	Back	15mm	Ant 9	ECI4	Main PA	55830	3609	-	22.31	23.50	1.315	62.9	1.006	-0.14	0.153	0.202
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 9	ECI3	Main PA	55830	3609	-	20.96	22.00	1.271	62.9	1.006	0.08	0.684	0.875
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 9	ECI3	Main PA	55340	3560	-	20.91	22.00	1.285	62.9	1.006	0.11	0.666	0.861
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 9	ECI3	Main PA	56150	3641	-	20.95	22.00	1.274	62.9	1.006	-0.14	0.668	0.856
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 9	ECI3	Main PA	56640	3690	-	20.93	22.00	1.279	62.9	1.006	-0.09	0.670	0.862
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 9	ECI3	Main PA	55830	3609	-	20.91	22.00	1.285	62.9	1.006	0.11	0.688	0.889
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 9	ECI3	Main PA	55340	3560	-	20.82	22.00	1.312	62.9	1.006	-0.11	0.672	0.887
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 9	ECI3	Main PA	56150	3641	-	20.88	22.00	1.294	62.9	1.006	-0.15	0.688	0.896
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 9	ECI3	Main PA	56640	3690	-	20.86	22.00	1.3	62.9	1.006	0.01	0.693	0.906
	LTE Band 48	20M	QPSK	100	0	Front	5mm	Ant 9	ECI3	Main PA	55830	3609	-	20.90	22.00	1.288	62.9	1.006	0.03	0.659	0.854
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 9	ECI3	Main PA											



【UL CA】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	99	Back	15mm	Ant 2	ECI4	Main PA	21100+21298	2535+2554.8	-	25.21	25.7	1.119	100	1.000	0.06	0.700	0.783
	LTE Band 7	20M	QPSK	1	99	Back	5mm	Ant 2	ECI3	Main PA	21100+21298	2535+2554.8	-	17.85	18.2	1.084	100	1.000	0.02	0.830	0.9
	LTE Band 7	20M	QPSK	1	99	Back	15mm	Ant 3	ECI4	Main PA	21100+21298	2535+2554.8	-	25.16	25.7	1.132	100	1.000	0.12	0.644	0.729
	LTE Band 7	20M	QPSK	1	99	Back	5mm	Ant 3	ECI3	Main PA	21100+21298	2535+2554.8	-	19.23	19.7	1.114	100	1.000	0.08	0.600	0.668
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	21350+21152	2560+2540.2	-	20.15	21.2	1.274	100	1.000	0.05	0.830	1.057
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 5	ECI3	Main PA	21350+21152	2560+2540.2	10	18.93	20	1.279	100	1.000	0.06	0.711	0.909
	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 2	ECI4	Main PA	37901+38099	2585.1+2604.9	-	25.33	25.7	1.089	62.9	1.006	-0.17	0.469	0.514
	LTE Band 38	20M	QPSK	1	0	Back	5mm	Ant 2	ECI3	Main PA	38150+37952	2610+2590.2	-	19.04	19.7	1.164	62.9	1.006	-0.03	0.856	1.002
	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 3	ECI4	Main PA	37901+38099	2585.1+2604.9	-	25.36	25.7	1.081	62.9	1.006	0.14	0.345	0.375
	LTE Band 38	20M	QPSK	1	0	Back	5mm	Ant 3	ECI3	Main PA	38150+37952	2610+2590.2	-	21.68	22.2	1.127	62.9	1.006	0.11	0.948	1.075
	LTE Band 38	20M	QPSK	1	0	Back	5mm	Ant 4	ECI3	Main PA	38150+37952	2610+2590.2	-	20.93	22	1.279	62.9	1.006	0.05	0.645	0.83
	LTE Band 38	20M	QPSK	1	99	Back	5mm	Ant 5	ECI3	Main PA	37850+38048	2580+2599.8	10	20.82	22	1.312	62.9	1.006	0.08	0.700	0.924

【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7	50M	BPSK	1	1	Front	15mm	Ant 2	ECI4	Main PA	507000	2535	-	25.45	25.70	1.059			0.05	0.498	0.527
	FR1 n7	50M	BPSK	135	68	Front	15mm	Ant 2	ECI4	Main PA	507000	2535	-	25.40	25.70	1.072			0.05	0.432	0.463
	FR1 n7	50M	BPSK	1	1	Back	15mm	Ant 2	ECI4	Main PA	507000	2535	-	25.45	25.70	1.059			-0.18	0.612	0.648
	FR1 n7	50M	BPSK	135	68	Back	15mm	Ant 2	ECI4	Main PA	507000	2535	-	25.40	25.70	1.072			0.19	0.546	0.585
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 2	ECI3	Main PA	507000	2535	-	18.43	18.70	1.064			0.03	0.488	0.519
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 2	ECI3	Main PA	507000	2535	-	18.39	18.70	1.074			0.14	0.473	0.508
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 2	ECI3	Main PA	507000	2535	-	18.43	18.70	1.064			-0.04	0.574	0.611
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 2	ECI3	Main PA	507000	2535	-	18.39	18.70	1.074			-0.07	0.584	0.627
	FR1 n7	50M	BPSK	1	1	Front	15mm	Ant 3	ECI4	Main PA	507000	2535	-	25.29	25.70	1.099			-0.05	0.308	0.338
	FR1 n7	50M	BPSK	135	68	Front	15mm	Ant 3	ECI4	Main PA	507000	2535	-	25.26	25.70	1.107			-0.13	0.269	0.298
	FR1 n7	50M	BPSK	1	1	Back	15mm	Ant 3	ECI4	Main PA	507000	2535	-	25.29	25.70	1.099			0.03	0.480	0.528
	FR1 n7	50M	BPSK	135	68	Back	15mm	Ant 3	ECI4	Main PA	507000	2535	-	25.26	25.70	1.107			-0.13	0.441	0.488
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 3	ECI3	Main PA	507000	2535	-	19.26	19.70	1.107			0.11	0.433	0.479
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 3	ECI3	Main PA	507000	2535	-	19.23	19.70	1.114			0.17	0.389	0.433
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 3	ECI3	Main PA	507000	2535	-	19.26	19.70	1.107			-0.04	0.524	0.580
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 3	ECI3	Main PA	507000	2535	-	19.23	19.70	1.114			-0.06	0.530	0.590
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 4	ECI3	Main PA	507000	2535	-	20.40	21.70	1.349			0.06	0.531	0.716
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 4	ECI3	Main PA	507000	2535	-	20.39	21.70	1.352			-0.04	0.466	0.630
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 4	ECI3	Main PA	507000	2535	-	20.40	21.70	1.349			-0.02	0.725	0.978
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 4	ECI3	Main PA	507000	2535	-	20.39	21.70	1.352			0.13	0.693	0.937
	FR1 n7	50M	BPSK	270	0	Back	5mm	Ant 4	ECI3	Main PA	507000	2535	-	20.34	21.70	1.368			-0.10	0.671	0.918
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 5	ECI3	Main PA	507000	2535	10	19.12	20.50	1.374			0.05	0.608	0.835
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 5	ECI3	Main PA	507000	2535	10	19.09	20.50	1.384			0.12	0.680	0.941
	FR1 n7	50M	BPSK	270	0	Front	5mm	Ant 5	ECI3	Main PA	507000	2535	10	18.96	20.50	1.426			-0.16	0.676	0.964
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 5	ECI3	Main PA	507000	2535	10	19.12	20.50	1.374			0.02	0.649	0.892
74	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 5	ECI3	Main PA	507000	2535	10	19.09	20.50	1.384			-0.07	0.782	1.082
	FR1 n7	50M	BPSK	270	0	Back	5mm	Ant 5	ECI3	Main PA	507000	2535	10	18.96	20.50	1.426			-0.11	0.722	1.030
	FR1 n12	15M	BPSK	1	1	Front	5mm	Ant 0	ECI3	Main PA	141500	707.5	-	24.73	25.50	1.194			-0.05	0.286	0.341
	FR1 n12	15M	BPSK	36	22	Front	5mm	Ant 0	ECI3	Main PA	141500	707.5	-	24.53	25.50	1.25			-0.12	0.270	0.338
	FR1 n12	15M	BPSK	1	1	Back	5mm	Ant 0	ECI3	Main PA	141500	707.5	-	24.73	25.50	1.194			-0.13	0.325	0.388
	FR1 n12	15M	BPSK	36	22	Back	5mm	Ant 0	ECI3	Main PA	141500	707.5	-	24.53	25.50	1.25			0.03	0.313	0.391
	FR1 n12	15M	BPSK	1	1	Front	15mm	Ant 1	ECI4	Main PA	141500	707.5	-	25.31	25.70	1.094			-0.09	0.276	0.302
	FR1 n12	15M	BPSK	36	22	Front	15mm	Ant 1	ECI4	Main PA	141500	707.5	-	25.01	25.70	1.172			0.08	0.288	0.338
	FR1 n12	15M	BPSK	1	1	Back	15mm	Ant 1	ECI4	Main PA	141500	707.5	-	25.31	25.70	1.094			0.15	0.306	0.335
	FR1 n12	15M	BPSK	36	22	Back	15mm	Ant 1	ECI4	Main PA	141500	707.5	-	25.01	25.70	1.172			0.10	0.312	0.366
	FR1 n12	15M	BPSK	1	1	Front	5mm	Ant 1	ECI3	Main PA	141500	707.5	-	22.43	22.70	1.064			-0.12	0.914	0.972
	FR1 n12	15M	BPSK	36	22	Front	5mm	Ant 1	ECI3	Main PA	141500	707.5	-	22.32	22.70	1.091			-0.08	0.855	0.933
	FR1 n12	15M	BPSK	75	0	Front	5mm	Ant 1	ECI3	Main PA	141500	707.5	-	22.31	22.70	1.094			0.02	0.802	0.877
75	FR1 n12	15M	BPSK	1	1	Back	5mm	Ant 1	ECI3	Main PA	141500	707.5	-	22.43	22.70	1.064			-0.11	0.973	1.035
	FR1 n12	15M	BPSK	36	22	Back	5mm	Ant 1	ECI3	Main PA	141500	707.5	-	22.32	22.70	1.091			-0.11	0.898	0.980
	FR1 n12	15M	BPSK	75	0	Back	5mm	Ant 1	ECI3	Main PA	141500	707.5	-	22.31	22.70	1.094			0.11	0.850	0.930
	FR1 n25	40M	BPSK	1	1	Front	15mm	Ant 2	ECI4	Main PA	376500	1882.5	-	24.40	25.00	1.148			0.03	0.285	0.327
	FR1 n25	40M	BPSK	108	54	Front	15mm	Ant 2	ECI4	Main PA	376500	1882.5	-	24.19	25.00	1.205			0.12	0.303	0.365
	FR1 n25	40M	BPSK	1	1	Back	15mm	Ant 2	ECI4	Main PA	376500	1882.5	-	24.40	25.00	1.148			-0.15	0.345	0.396



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	FR1 n25	40M	BPSK	108	54	Back	15mm	Ant 2	ECI4	Main PA	376500	1882.5	-	24.19	25.00	1.205			0.15	0.362	0.436
	FR1 n2	20M	BPSK	1	1	Back	15mm	Ant 2	ECI4-1	Other PA	376000	1880	-	24.36	25.50	1.3			-0.10	0.367	0.477
	FR1 n2	20M	BPSK	1	1	Back	15mm	Ant 2	ECI4-2	Other PA-1	376000	1880	-	24.35	25.00	1.161			0.09	0.335	0.389
	FR1 n25	40M	BPSK	1	1	Front	5mm	Ant 2	ECI3	Main PA	376500	1882.5	-	20.28	21.00	1.18			0.07	0.710	0.838
	FR1 n25	40M	BPSK	108	54	Front	5mm	Ant 2	ECI3	Main PA	376500	1882.5	-	20.18	21.00	1.208			0.05	0.760	0.918
	FR1 n25	40M	BPSK	216	0	Front	5mm	Ant 2	ECI3	Main PA	376500	1882.5	-	20.12	21.00	1.225			0.05	0.725	0.888
	FR1 n25	40M	BPSK	1	1	Back	5mm	Ant 2	ECI3	Main PA	376500	1882.5	-	20.28	21.00	1.18			0.16	0.883	1.042
	FR1 n25	40M	BPSK	108	54	Back	5mm	Ant 2	ECI3	Main PA	376500	1882.5	-	20.18	21.00	1.208			-0.01	0.877	1.059
76	FR1 n25	40M	BPSK	216	0	Back	5mm	Ant 2	ECI3	Main PA	376500	1882.5	-	20.12	21.00	1.225			-0.16	0.877	1.074
	FR1 n2	20M	BPSK	100	0	Back	5mm	Ant 2	ECI3-1	Other PA	376000	1880	-	19.71	21.00	1.346			0.06	0.775	1.043
	FR1 n2	20M	BPSK	100	0	Back	5mm	Ant 2	ECI3-2	Other PA-1	376000	1880	-	19.59	20.50	1.233			-0.17	0.730	0.900
	FR1 n25	40M	BPSK	1	1	Front	15mm	Ant 3	ECI4	Main PA	376500	1882.5	1	24.05	25.50	1.396			0.08	0.382	0.533
	FR1 n25	40M	BPSK	108	54	Front	15mm	Ant 3	ECI4	Main PA	376500	1882.5	1	23.96	25.50	1.426			0.18	0.302	0.431
	FR1 n25	40M	BPSK	1	1	Back	15mm	Ant 3	ECI4	Main PA	376500	1882.5	1	24.05	25.50	1.396			0.15	0.507	0.708
	FR1 n25	40M	BPSK	108	54	Back	15mm	Ant 3	ECI4	Main PA	376500	1882.5	1	23.96	25.50	1.426			0.04	0.402	0.573
	FR1 n2	20M	BPSK	1	1	Back	15mm	Ant 3	ECI4-1	Other PA	376000	1880	1	24.30	25.20	1.23			-0.08	0.520	0.640
	FR1 n2	20M	BPSK	1	1	Back	15mm	Ant 3	ECI4-2	Other PA-1	376000	1880	1	24.15	25.00	1.216			-0.16	0.472	0.574
	FR1 n25	40M	BPSK	1	1	Front	5mm	Ant 3	ECI3	Main PA	376500	1882.5	1	18.19	19.50	1.352			0.11	0.673	0.910
	FR1 n25	40M	BPSK	108	54	Front	5mm	Ant 3	ECI3	Main PA	376500	1882.5	1	18.15	19.50	1.365			0.13	0.558	0.762
	FR1 n25	40M	BPSK	216	0	Front	5mm	Ant 3	ECI3	Main PA	376500	1882.5	1	18.15	19.50	1.365			-0.02	0.570	0.778
	FR1 n25	40M	BPSK	1	1	Back	5mm	Ant 3	ECI3	Main PA	376500	1882.5	1	18.19	19.50	1.352			-0.07	0.718	0.971
	FR1 n25	40M	BPSK	108	54	Back	5mm	Ant 3	ECI3	Main PA	376500	1882.5	1	18.15	19.50	1.365			-0.01	0.578	0.789
	FR1 n25	40M	BPSK	216	0	Back	5mm	Ant 3	ECI3	Main PA	376500	1882.5	1	18.15	19.50	1.365			0.19	0.582	0.794
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 3	ECI3-1	Other PA	376000	1880	1	18.28	19.20	1.236			0.06	0.652	0.806
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 3	ECI3-2	Other PA-1	376000	1880	1	18.61	19.50	1.227			-0.17	0.581	0.713
	FR1 n25	40M	BPSK	1	1	Front	5mm	Ant 4	ECI3	Main PA	376500	1882.5	-	19.23	20.50	1.34			0.16	0.604	0.809
	FR1 n25	40M	BPSK	108	54	Front	5mm	Ant 4	ECI3	Main PA	376500	1882.5	-	19.19	20.50	1.352			0.13	0.537	0.726
	FR1 n25	40M	BPSK	216	0	Front	5mm	Ant 4	ECI3	Main PA	376500	1882.5	-	19.12	20.50	1.374			-0.09	0.544	0.747
	FR1 n25	40M	BPSK	1	1	Back	5mm	Ant 4	ECI3	Main PA	376500	1882.5	-	19.23	20.50	1.34			-0.06	0.762	1.021
	FR1 n25	40M	BPSK	108	54	Back	5mm	Ant 4	ECI3	Main PA	376500	1882.5	-	19.19	20.50	1.352			0.14	0.702	0.949
	FR1 n25	40M	BPSK	216	0	Back	5mm	Ant 4	ECI3	Main PA	376500	1882.5	-	19.12	20.50	1.374			-0.08	0.703	0.966
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 4	ECI3-1	Other PA	376000	1880	-	18.78	20.50	1.486			0.01	0.661	0.982
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 4	ECI3-2	Other PA-1	376000	1880	-	19.40	20.50	1.288			0.12	0.564	0.726
	FR1 n25	40M	BPSK	1	1	Front	5mm	Ant 5	ECI3	Main PA	376500	1882.5	1C	18.67	20.00	1.358			0.10	0.328	0.445
	FR1 n25	40M	BPSK	108	54	Front	5mm	Ant 5	ECI3	Main PA	376500	1882.5	1C	18.64	20.00	1.368			-0.01	0.396	0.542
	FR1 n25	40M	BPSK	1	1	Back	5mm	Ant 5	ECI3	Main PA	376500	1882.5	1C	18.67	20.00	1.358			0.18	0.411	0.558
	FR1 n25	40M	BPSK	108	54	Back	5mm	Ant 5	ECI3	Main PA	376500	1882.5	1C	18.64	20.00	1.368			-0.16	0.469	0.642
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 5	ECI3-1	Other PA	376000	1880	0	18.80	20.00	1.318			-0.08	0.382	0.503
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 5	ECI3-2	Other PA-1	376000	1880	0	18.67	20.00	1.358			0.05	0.439	0.596
	FR1 n26	20M	BPSK	1	1	Front	5mm	Ant 0	ECI3	Main PA	166300	831.5	-	25.16	25.70	1.132			-0.11	0.602	0.681
	FR1 n26	20M	BPSK	50	28	Front	5mm	Ant 0	ECI3	Main PA	166300	831.5	-	25.08	25.70	1.153			-0.08	0.588	0.678
	FR1 n26	20M	BPSK	1	1	Back	5mm	Ant 0	ECI3	Main PA	166300	831.5	-	25.16	25.70	1.132			-0.14	0.760	0.860
	FR1 n26	20M	BPSK	50	28	Back	5mm	Ant 0	ECI3	Main PA	166300	831.5	-	25.08	25.70	1.153			-0.03	0.784	0.904
	FR1 n26	20M	BPSK	100	0	Back	5mm	Ant 0	ECI3	Main PA	166300	831.5	-	24.54	25.20	1.164			0.09	0.685	0.797
	FR1 n5	20M	BPSK	50	28	Back	5mm	Ant 0	ECI3-1	Other PA	167300	836.5	1	24.39	25.50	1.291			0.01	0.579	0.747
	FR1 n26	20M	BPSK	1	1	Front	15mm	Ant 1	ECI4	Main PA	166300	831.5	-	25.10	25.70	1.148			0.06	0.246	0.282
	FR1 n26	20M	BPSK	50	28	Front	15mm	Ant 1	ECI4	Main PA	166300	831.5	-	25.02	25.70	1.169			-0.08	0.208	0.243
	FR1 n26	20M	BPSK	1	1	Back	15mm	Ant 1	ECI4	Main PA	166300	831.5	-	25.10	25.70	1.148			-0.05	0.268	0.308
	FR1 n26	20M	BPSK	50	28	Back	15mm	Ant 1	ECI4	Main PA	166300	831.5	-	25.02	25.70	1.169			0.08	0.222	0.260
	FR1 n5	20M	BPSK	1	1	Back	15mm	Ant 1	ECI4-1	Other PA	167300	836.5	1	25.20	25.70	1.122			0.05	0.253	0.284
	FR1 n26	20M	BPSK	1	1	Front	5mm	Ant 1	ECI3	Main PA	166300	831.5	-	21.24	21.70	1.112			-0.09	0.820	0.912
	FR1 n26	20M	BPSK	50	28	Front	5mm	Ant 1	ECI3	Main PA	166300	831.5	-	21.20	21.70	1.122			-0.13	0.689	0.773
	FR1 n26	20M	BPSK	100	0	Front	5mm	Ant 1	ECI3	Main PA	166300	831.5	-	21.14	21.70	1.138			0.01	0.631	0.718
77	FR1 n26	20M	BPSK	1	1	Back	5mm	Ant 1	ECI3	Main PA	166300	831.5	-	21.24	21.70	1.112			-0.11	0.901	1.002
	FR1 n26	20M	BPSK	50	28	Back	5mm	Ant 1	ECI3	Main PA	166300	831.5	-	21.20	21.70	1.122			-0.11	0.766	0.859
	FR1 n26	20M	BPSK	100	0	Back	5mm	Ant 1	ECI3	Main PA	166300	831.5	-	21.14	21.70	1.138			-0.10	0.667	0.759
	FR1 n5	20M	BPSK	1	1	Back	5mm	Ant 1	ECI3-1	Other PA	167300	836.5	1	21.16	21.70	1.132			0.03	0.849	0.961
	FR1 n66	40M	BPSK	1	1	Front	15mm	Ant 2	ECI4	Main PA	349000	1745	-	25.03	25.70	1.167			0.08	0.354	0.413
	FR1 n66	40M	BPSK	108	54	Front	15mm	Ant 2	ECI4	Main PA	349000	1745	-	25.00	25.70	1.175			0.05	0.382	0.449
	FR1 n66	40M	BPSK	1	1	Back	15mm	Ant 2	ECI4	Main PA	349000	1745	-	25.03	25.70	1.167			-0.04	0.461	0.538
	FR1 n66	40M	BPSK	108	54	Back	15mm	Ant 2	ECI4	Main PA	349000	1745	-	25.00	25.70	1.175			0.06	0.474	0.557
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 2	ECI3	Main PA	349000	1745	-	19.99	20.70	1.178			0.06	0.692	0.815
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 2	ECI3	Main PA	349000	1745	-	19.94	20.70	1.191			0.14	0.733	0.873
	FR1 n66	40M	BPSK	216	0	Front	5mm	Ant 2	ECI3	Main PA	349000	1745	-	19.90	20.70	1.202			-0.13	0.698	0.839
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 2	ECI3	Main PA	349000	1745	-	19.99	20.70	1.178			0.10	0.915	1.078
78	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 2	ECI3	Main PA	349000	1745	-	19.94	20.70	1.191			-0.11	0.911	1.085
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 2	ECI3	Main PA	349000	1745	-	19.90	20.70	1.202			0.18	0.899	1.081
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 2	ECI3-1	Other PA	349000	1745	-	19.61	20.70	1.285			0.10	0.830	1.067
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 2	ECI3-2	Other PA-1	349000	1745	-	19.94	21.00	1.276			-0.15	0.641	0.818
	FR1 n66	40M	BPSK	1	1	Front	15mm	Ant 3	ECI4	Main PA	349000	1745	0	24.6							



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	FR1 n66	40M	BPSK	216	0	Back	15mm	Ant 3	ECI4	Main PA	349000	1745	0	24.14	25.20	1.276			0.08	0.622	0.794
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 3	ECI3	Main PA	349000	1745	0	17.55	18.70	1.303			0.09	0.697	0.908
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 3	ECI3	Main PA	349000	1745	0	17.50	18.70	1.318			0.12	0.742	0.978
	FR1 n66	40M	BPSK	216	0	Front	5mm	Ant 3	ECI3	Main PA	349000	1745	0	17.55	18.70	1.303			0.14	0.720	0.938
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 3	ECI3	Main PA	349000	1745	0	17.55	18.70	1.303			-0.15	0.787	1.025
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 3	ECI3	Main PA	349000	1745	0	17.50	18.70	1.318			-0.08	0.802	1.057
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 3	ECI3	Main PA	349000	1745	0	17.55	18.70	1.303			0.10	0.757	0.986
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 3	ECI3-1	Other PA	349000	1745	0	17.48	18.20	1.18			0.07	0.875	1.033
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 3	ECI3-2	Other PA-1	349000	1745	0	17.62	19.00	1.374			-0.02	0.743	1.021
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 4	ECI3	Main PA	349000	1745	-	17.93	19.00	1.279			0.03	0.578	0.739
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 4	ECI3	Main PA	349000	1745	-	17.84	19.00	1.306			0.13	0.612	0.799
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 4	ECI3	Main PA	349000	1745	-	17.93	19.00	1.279			0.15	0.701	0.897
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 4	ECI3	Main PA	349000	1745	-	17.84	19.00	1.306			-0.07	0.716	0.935
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 4	ECI3	Main PA	349000	1745	-	17.85	19.00	1.303			-0.18	0.707	0.921
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 4	ECI3-1	Other PA	349000	1745	-	17.40	18.20	1.202			0.19	0.732	0.880
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 4	ECI3-2	Other PA-1	349000	1745	-	17.72	19.00	1.343			-0.01	0.482	0.647
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 5	ECI3	Main PA	349000	1745	8	18.46	20.00	1.426			-0.09	0.616	0.878
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 5	ECI3	Main PA	349000	1745	8	18.44	20.00	1.432			0.18	0.591	0.846
	FR1 n66	40M	BPSK	216	0	Front	5mm	Ant 5	ECI3	Main PA	349000	1745	8	18.30	20.00	1.479			-0.01	0.598	0.884
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 5	ECI3	Main PA	349000	1745	8	18.46	20.00	1.426			0.15	0.682	0.973
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 5	ECI3	Main PA	349000	1745	8	18.44	20.00	1.432			0.06	0.712	1.020
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 5	ECI3	Main PA	349000	1745	8	18.30	20.00	1.479			-0.02	0.680	1.006
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 5	ECI3-1	Other PA	349000	1745	8	18.60	20.00	1.38			-0.08	0.725	1.001
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 5	ECI3-2	Other PA-1	349000	1745	8	18.63	20.00	1.371			-0.17	0.509	0.698
	FR1 n71	20M	BPSK	1	1	Front	5mm	Ant 0	ECI3	Main PA	136100	680.5	2	24.23	25.00	1.194			0.17	0.219	0.261
	FR1 n71	20M	BPSK	50	28	Front	5mm	Ant 0	ECI3	Main PA	136100	680.5	2	24.22	25.00	1.197			0.17	0.282	0.338
	FR1 n71	20M	BPSK	1	1	Back	5mm	Ant 0	ECI3	Main PA	136100	680.5	2	24.23	25.00	1.194			-0.16	0.267	0.319
	FR1 n71	20M	BPSK	50	28	Back	5mm	Ant 0	ECI3	Main PA	136100	680.5	2	24.22	25.00	1.197			-0.05	0.355	0.425
	FR1 n71	20M	BPSK	1	1	Front	15mm	Ant 1	ECI4	Main PA	136100	680.5	-	24.73	25.70	1.25			0.09	0.188	0.235
	FR1 n71	20M	BPSK	50	28	Front	15mm	Ant 1	ECI4	Main PA	136100	680.5	-	24.70	25.70	1.259			-0.18	0.221	0.278
	FR1 n71	20M	BPSK	1	1	Back	15mm	Ant 1	ECI4	Main PA	136100	680.5	-	24.73	25.70	1.25			-0.09	0.216	0.270
	FR1 n71	20M	BPSK	50	28	Back	15mm	Ant 1	ECI4	Main PA	136100	680.5	-	24.70	25.70	1.259			-0.14	0.248	0.312
	FR1 n71	20M	BPSK	1	1	Front	5mm	Ant 1	ECI3	Main PA	136100	680.5	-	21.77	22.70	1.239			0.18	0.616	0.763
	FR1 n71	20M	BPSK	50	28	Front	5mm	Ant 1	ECI3	Main PA	136100	680.5	-	21.69	22.70	1.262			-0.02	0.728	0.919
	FR1 n71	20M	BPSK	100	0	Front	5mm	Ant 1	ECI3	Main PA	136100	680.5	-	21.57	22.70	1.297			0.11	0.636	0.825
	FR1 n71	20M	BPSK	1	1	Back	5mm	Ant 1	ECI3	Main PA	136100	680.5	-	21.77	22.70	1.239			-0.07	0.697	0.864
79	FR1 n71	20M	BPSK	50	28	Back	5mm	Ant 1	ECI3	Main PA	136100	680.5	-	21.69	22.70	1.262			-0.01	0.809	1.021
	FR1 n71	20M	BPSK	100	0	Back	5mm	Ant 1	ECI3	Main PA	136100	680.5	-	21.57	22.70	1.297			0.10	0.717	0.930
	FR1 n41	100M	BPSK	1	1	Front	15mm	Ant 2	ECI4	Main PA	518598	2592.99	-	25.05	25.20	1.035			0.03	0.670	0.693
	FR1 n41	100M	BPSK	135	69	Front	15mm	Ant 2	ECI4	Main PA	518598	2592.99	-	25.01	25.20	1.045			-0.19	0.640	0.669
	FR1 n41	100M	BPSK	1	1	Back	15mm	Ant 2	ECI4	Main PA	518598	2592.99	-	25.05	25.20	1.035			-0.03	0.868	0.898
	FR1 n41	100M	BPSK	135	69	Back	15mm	Ant 2	ECI4	Main PA	518598	2592.99	-	25.01	25.20	1.045			-0.15	0.821	0.858
	FR1 n41	100M	BPSK	270	0	Back	15mm	Ant 2	ECI4	Main PA	518598	2592.99	-	24.98	25.20	1.052			-0.02	0.834	0.877
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 2	ECI3	Main PA	518598	2592.99	-	17.42	17.70	1.067			-0.17	0.522	0.557
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 2	ECI3	Main PA	518598	2592.99	-	17.35	17.70	1.084			0.17	0.490	0.531
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 2	ECI3	Main PA	518598	2592.99	-	17.42	17.70	1.067			-0.03	0.724	0.773
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 2	ECI3	Main PA	518598	2592.99	-	17.35	17.70	1.084			0.02	0.677	0.734
	FR1 n41 HPUE	100M	BPSK	1	1	Back	15mm	Ant 2	ECI4	Main PA	518598	2592.99	-	26.80	27.50	1.175	50.0	1.0	0.13	0.662	0.778
	FR1 n41	100M	BPSK	1	1	Front	15mm	Ant 3	ECI4	Main PA	518598	2592.99	-	25.55	25.70	1.035			-0.05	0.461	0.477
	FR1 n41	100M	BPSK	135	69	Front	15mm	Ant 3	ECI4	Main PA	518598	2592.99	-	25.33	25.70	1.089			-0.08	0.400	0.436
	FR1 n41	100M	BPSK	1	1	Back	15mm	Ant 3	ECI4	Main PA	518598	2592.99	-	25.55	25.70	1.035			-0.06	0.767	0.794
	FR1 n41	100M	BPSK	135	69	Back	15mm	Ant 3	ECI4	Main PA	518598	2592.99	-	25.33	25.70	1.089			-0.09	0.652	0.710
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 3	ECI3	Main PA	518598	2592.99	-	18.89	19.20	1.074			-0.02	0.544	0.584
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 3	ECI3	Main PA	518598	2592.99	-	18.73	19.20	1.114			-0.11	0.476	0.530
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 3	ECI3	Main PA	518598	2592.99	-	18.89	19.20	1.074			-0.19	0.573	0.615
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 3	ECI3	Main PA	518598	2592.99	-	18.73	19.20	1.114			0.06	0.573	0.638
	FR1 n41 HPUE	100M	BPSK	1	1	Back	15mm	Ant 3	ECI4	Main PA	518598	2592.99	-	26.74	28.00	1.337	50.0	1.0	0.02	0.489	0.654
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 4	ECI3	Main PA	518598	2592.99	-	19.46	20.70	1.33			0.11	0.445	0.592
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 4	ECI3	Main PA	518598	2592.99	-	19.41	20.70	1.346			0.13	0.489	0.658
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 4	ECI3	Main PA	518598	2592.99	-	19.46	20.70	1.33			-0.05	0.614	0.817
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 4	ECI3	Main PA	518598	2592.99	-	19.41	20.70	1.346			0.02	0.662	0.891
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 4	ECI3	Main PA	518598	2592.99	-	19.25	20.70	1.396			-0.03	0.614	0.857
	FR1 n41 HPUE	100M	BPSK	135	69	Back	5mm	Ant 4	ECI3	Main PA	518598	2592.99	-	22.30	24.00	1.479	50.0	1.0	0.06	0.620	0.917
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 5	ECI3	Main PA	518598	2592.99	10	18.05	19.50	1.396			-0.19	0.444	0.620
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 5	ECI3	Main PA	518598	2592.99	10	18.02	19.50	1.406			-0.19	0.408	0.574
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 5	ECI3	Main PA	518598	2592.99	10	18.05	19.50	1.396			-0.06	0.647	0.903
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 5	ECI3	Main PA	518598	2592.99	10	18.02	19.50	1.406			0.03	0.514	0.723
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 5	ECI3	Main PA	518598	2592.99	10	18.01	19.50	1.409			0.06	0.520	0.733
80	FR1 n41 HPUE	100M	BPSK	1	1	Back	5mm	Ant 5	ECI3	Main PA	518598	2592.99	10	20.88	22.50	1.452	50.0	1.0	0.07	0.654	0.950
	FR1 n																				



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	FR1 n48	40M	BPSK	1	1	Back	15mm	Ant 6	ECI4	Main PA	641666	3624.99	-	24.65	25.00	1.084			0.01	0.177	0.192
	FR1 n48	40M	BPSK	50	28	Back	15mm	Ant 6	ECI4	Main PA	641666	3624.99	-	24.57	25.00	1.104			-0.01	0.169	0.187
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 6	ECI3	Main PA	641666	3624.99	-	20.09	20.50	1.099			-0.01	0.564	0.620
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 6	ECI3	Main PA	638000	3570	-	20.02	20.50	1.117			-0.17	0.667	0.745
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 6	ECI3	Main PA	645332	3679.98	-	20.06	20.50	1.107			-0.02	0.587	0.650
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 6	ECI3	Main PA	641666	3624.99	-	20.06	20.50	1.107			0.10	0.597	0.661
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 6	ECI3	Main PA	638000	3570	-	20.01	20.50	1.119			-0.09	0.676	0.756
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 6	ECI3	Main PA	645332	3679.98	-	20.03	20.50	1.114			-0.14	0.564	0.628
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 6	ECI3	Main PA	641666	3624.99	-	20.09	20.50	1.099			-0.03	0.858	0.943
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 6	ECI3	Main PA	638000	3570	-	20.02	20.50	1.117			-0.02	0.858	0.958
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 6	ECI3	Main PA	641666	3679.98	-	20.06	20.50	1.107			-0.09	0.783	0.867
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 6	ECI3	Main PA	641666	3624.99	-	20.06	20.50	1.107			0.18	0.704	0.779
81	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 6	ECI3	Main PA	638000	3570	-	20.01	20.50	1.119			-0.06	0.867	0.970
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 6	ECI3	Main PA	645332	3679.98	-	20.03	20.50	1.114			0.16	0.671	0.747
	FR1 n48	40M	BPSK	100	0	Back	5mm	Ant 6	ECI3	Main PA	641666	3624.99	-	20.00	20.50	1.122			-0.13	0.764	0.857
	FR1 n48	40M	BPSK	1	1	Front	15mm	Ant 7	ECI4	Main PA	641666	3624.99	-	23.11	24.00	1.227			-0.19	0.241	0.296
	FR1 n48	40M	BPSK	50	28	Front	15mm	Ant 7	ECI4	Main PA	641666	3624.99	-	22.97	24.00	1.268			0.03	0.245	0.311
	FR1 n48	40M	BPSK	1	1	Back	15mm	Ant 7	ECI4	Main PA	641666	3624.99	-	23.11	24.00	1.227			-0.15	0.259	0.318
	FR1 n48	40M	BPSK	50	28	Back	15mm	Ant 7	ECI4	Main PA	641666	3624.99	-	22.97	24.00	1.268			-0.08	0.246	0.312
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 7	ECI3	Main PA	641666	3624.99	-	18.71	19.50	1.199			-0.06	0.619	0.742
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 7	ECI3	Main PA	638000	3570	-	18.67	19.50	1.211			-0.01	0.587	0.711
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 7	ECI3	Main PA	645332	3679.98	-	18.69	19.50	1.205			0.03	0.690	0.831
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 7	ECI3	Main PA	641666	3624.99	-	18.65	19.50	1.216			-0.05	0.587	0.714
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 7	ECI3	Main PA	638000	3570	-	18.61	19.50	1.227			0.02	0.534	0.655
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 7	ECI3	Main PA	645332	3679.98	-	18.63	19.50	1.222			0.07	0.586	0.716
	FR1 n48	40M	BPSK	100	0	Front	5mm	Ant 7	ECI3	Main PA	641666	3624.99	-	18.58	19.50	1.236			-0.11	0.550	0.680
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 7	ECI3	Main PA	641666	3624.99	-	18.71	19.50	1.199			0.07	0.779	0.934
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 7	ECI3	Main PA	638000	3570	-	18.67	19.50	1.211			0.00	0.621	0.752
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 7	ECI3	Main PA	645332	3679.98	-	18.69	19.50	1.205			-0.05	0.793	0.956
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 7	ECI3	Main PA	641666	3624.99	-	18.65	19.50	1.216			-0.13	0.693	0.843
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 7	ECI3	Main PA	638000	3570	-	18.61	19.50	1.227			0.00	0.666	0.817
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 7	ECI3	Main PA	645332	3679.98	-	18.63	19.50	1.222			-0.13	0.661	0.808
	FR1 n48	40M	BPSK	100	0	Back	5mm	Ant 7	ECI3	Main PA	641666	3624.99	-	18.58	19.50	1.236			-0.07	0.621	0.768
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 8	ECI3	Main PA	641666	3624.99	-	18.66	19.50	1.213			0.12	0.437	0.530
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 8	ECI3	Main PA	641666	3624.99	-	18.63	19.50	1.222			0.12	0.376	0.459
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 8	ECI3	Main PA	641666	3624.99	-	18.66	19.50	1.213			0.03	0.487	0.591
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 8	ECI3	Main PA	641666	3624.99	-	18.63	19.50	1.222			0.01	0.522	0.638
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 8	ECI3	Main PA	638000	3570	-	18.58	19.50	1.236			0.10	0.546	0.675
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 8	ECI3	Main PA	645332	3679.98	-	18.57	19.50	1.239			0.10	0.495	0.613
	FR1 n48	40M	BPSK	1	1	Front	15mm	Ant 9	ECI4	Main PA	641666	3624.99	-	23.80	25.00	1.318			-0.05	0.461	0.608
	FR1 n48	40M	BPSK	50	28	Front	15mm	Ant 9	ECI4	Main PA	641666	3624.99	-	23.67	25.00	1.358			-0.05	0.436	0.592
	FR1 n48	40M	BPSK	1	1	Back	15mm	Ant 9	ECI4	Main PA	641666	3624.99	-	23.80	25.00	1.318			-0.12	0.316	0.416
	FR1 n48	40M	BPSK	50	28	Back	15mm	Ant 9	ECI4	Main PA	641666	3624.99	-	23.67	25.00	1.358			-0.19	0.300	0.407
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 9	ECI3	Main PA	641666	3624.99	-	18.87	20.00	1.297			-0.13	0.712	0.923
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 9	ECI3	Main PA	638000	3570	-	18.83	20.00	1.309			-0.08	0.685	0.897
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 9	ECI3	Main PA	645332	3679.98	-	18.84	20.00	1.306			0.04	0.711	0.929
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 9	ECI3	Main PA	641666	3624.99	-	18.84	20.00	1.306			0.11	0.568	0.742
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 9	ECI3	Main PA	638000	3570	-	18.79	20.00	1.321			-0.10	0.655	0.865
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 9	ECI3	Main PA	645332	3679.98	-	18.78	20.00	1.324			0.03	0.639	0.846
	FR1 n48	40M	BPSK	100	0	Front	5mm	Ant 9	ECI3	Main PA	641666	3624.99	-	18.82	20.00	1.312			0.08	0.649	0.851
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 9	ECI3	Main PA	641666	3624.99	-	18.87	20.00	1.297			0.03	0.624	0.809
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 9	ECI3	Main PA	638000	3570	-	18.83	20.00	1.309			0.13	0.631	0.826
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 9	ECI3	Main PA	645332	3679.98	-	18.84	20.00	1.306			-0.14	0.563	0.735
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 9	ECI3	Main PA	641666	3624.99	-	18.84	20.00	1.306			-0.01	0.655	0.855
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 9	ECI3	Main PA	638000	3570	-	18.79	20.00	1.321			0.00	0.564	0.745
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 9	ECI3	Main PA	645332	3679.98	-	18.78	20.00	1.324			-0.15	0.527	0.698
	FR1 n48	40M	BPSK	100	0	Back	5mm	Ant 9	ECI3	Main PA	641666	3624.99	-	18.82	20.00	1.312			-0.02	0.541	0.710
	FR1 n77	100M	BPSK	1	1	Front	15mm	Ant 6	ECI4	Main PA	633332	3499.98	2	24.70	25.00	1.072			0.05	0.488	0.523
	FR1 n77	100M	BPSK	135	69	Front	15mm	Ant 6	ECI4	Main PA	633332	3499.98	2	24.55	25.00	1.109			0.12	0.382	0.424
	FR1 n77	100M	BPSK	1	1	Back	15mm	Ant 6	ECI4	Main PA	633332	3499.98	2	24.70	25.00	1.072			0.05	0.510	0.547
	FR1 n77	100M	BPSK	135	69	Back	15mm	Ant 6	ECI4	Main PA	633332	3499.98	2	24.55	25.00	1.109			-0.04	0.379	0.420
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 6	ECI3	Main PA	633332	3499.98	2	18.63	19.00	1.089			0.02	0.696	0.758
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 6	ECI3	Main PA	633332	3499.98	2	18.60	19.00	1.096			-0.09	0.683	0.749
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 6	ECI3	Main PA	633332	3499.98	2	18.63	19.00	1.089			0.08	0.844	0.919
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 6	ECI3	Main PA	633332	3499.98	2	18.60	19.00	1.096			0.08	0.746	0.818
	FR1 n77	100M	BPSK	270	0	Back	5mm	Ant 6	ECI3	Main PA	633332	3499.98	2	18.47	19.00	1.113			0.11	0.739	0.835
	FR1 n77 HPUE	100M	BPSK	1	1	Back	5mm	Ant 6	ECI3	Main PA	633332	3499.98	2	21.59	22.00	1.099	50.0	1.0	0.04	0.871	0.957
	FR1 n77	100M	BPSK	1	1	Front	15mm	Ant 7	ECI4	Main PA	633332	3499.98	-	23.27	24.00	1.183			0.15	0.175	0.207
	FR1 n77	100M	BPSK	135	69	Front	15mm	Ant 7	ECI4	Main PA	633332	3499.98	-	23.17	24.00	1.211			0.10	0.160	0.194
	FR1 n77	100M	BPSK	1	1	Back	15mm	Ant 7	ECI4												



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	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 7	ECI3	Main PA	633332	3499.98	-	17.60	18.50	1.23			-0.05	0.691	0.850
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 7	ECI3	Main PA	633332	3499.98	-	17.60	18.50	1.23			0.02	0.530	0.652
	FR1 n77	100M	BPSK	270	0	Back	5mm	Ant 7	ECI3	Main PA	633332	3499.98	-	17.54	18.50	1.247			0.04	0.623	0.777
	FR1 n77 HPUE	100M	BPSK	1	1	Back	5mm	Ant 7	ECI3	Main PA	633332	3499.98	-	20.43	21.50	1.279	50.0	1.0	-0.04	0.707	0.904
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	16.51	17.50	1.256			0.18	0.549	0.690
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	16.46	17.50	1.271			-0.12	0.449	0.571
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	16.51	17.50	1.256			-0.15	0.748	0.939
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	16.46	17.50	1.271			-0.01	0.698	0.887
	FR1 n77	100M	BPSK	270	0	Back	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	16.36	17.50	1.3			-0.06	0.705	0.917
	FR1 n77 HPUE	100M	BPSK	1	1	Back	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	19.46	20.50	1.271	50.0	1.0	-0.17	0.767	0.975
	FR1 n77	100M	BPSK	1	1	Front	15mm	Ant 9	ECI4	Main PA	633332	3499.98	-	24.00	25.00	1.259			0.18	0.388	0.488
	FR1 n77	100M	BPSK	135	69	Front	15mm	Ant 9	ECI4	Main PA	633332	3499.98	-	23.80	25.00	1.318			0.03	0.395	0.521
	FR1 n77	100M	BPSK	1	1	Back	15mm	Ant 9	ECI4	Main PA	633332	3499.98	-	24.00	25.00	1.259			-0.14	0.268	0.337
	FR1 n77	100M	BPSK	135	69	Back	15mm	Ant 9	ECI4	Main PA	633332	3499.98	-	23.80	25.00	1.318			-0.12	0.287	0.378
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 9	ECI3	Main PA	633332	3499.98	-	18.97	20.00	1.268			-0.05	0.586	0.743
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 9	ECI3	Main PA	633332	3499.98	-	18.95	20.00	1.274			0.12	0.658	0.838
	FR1 n77	100M	BPSK	270	0	Front	5mm	Ant 9	ECI3	Main PA	633332	3499.98	-	18.90	20.00	1.288			-0.17	0.596	0.768
	FR1 n77 HPUE	100M	BPSK	135	69	Front	5mm	Ant 9	ECI3	Main PA	633332	3499.98	-	21.91	23.00	1.285	50.0	1.0	-0.05	0.671	0.862
	FR1 n77 HPUE	100M	BPSK	270	0	Front	5mm	Ant 9	ECI3	Main PA	633332	3499.98	-	21.73	23.00	1.34	50.0	1.0	0.06	0.615	0.824
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 9	ECI3	Main PA	633332	3499.98	-	18.97	20.00	1.268			-0.07	0.511	0.648
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 9	ECI3	Main PA	633332	3499.98	-	18.95	20.00	1.274			-0.01	0.518	0.660
	FR1 n77	100M	BPSK	1	1	Front	15mm	Ant 6	ECI4	Main PA	656000	3840	2	24.70	25.00	1.072			0.14	0.321	0.344
	FR1 n77	100M	BPSK	135	69	Front	15mm	Ant 6	ECI4	Main PA	656000	3840	2	24.62	25.00	1.091			-0.00	0.305	0.333
	FR1 n77	100M	BPSK	1	1	Back	15mm	Ant 6	ECI4	Main PA	656000	3840	2	24.70	25.00	1.072			-0.09	0.280	0.300
	FR1 n77	100M	BPSK	135	69	Back	15mm	Ant 6	ECI4	Main PA	656000	3840	2	24.62	25.00	1.091			0.14	0.289	0.315
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 6	ECI3	Main PA	656000	3840	2	18.64	19.00	1.086			0.14	0.380	0.413
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 6	ECI3	Main PA	656000	3840	2	18.55	19.00	1.109			0.18	0.382	0.424
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 6	ECI3	Main PA	656000	3840	2	18.64	19.00	1.086			0.10	0.428	0.465
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 6	ECI3	Main PA	656000	3840	2	18.55	19.00	1.109			0.10	0.401	0.445
	FR1 n77 HPUE	100M	BPSK	1	1	Back	5mm	Ant 6	ECI3	Main PA	656000	3840	2	21.61	22.00	1.094	50.0	1.0	0.02	0.448	0.490
	FR1 n77	100M	BPSK	1	1	Front	15mm	Ant 7	ECI4	Main PA	656000	3840	-	23.35	24.00	1.161			0.18	0.148	0.172
	FR1 n77	100M	BPSK	135	69	Front	15mm	Ant 7	ECI4	Main PA	656000	3840	-	23.25	24.00	1.189			0.09	0.145	0.172
	FR1 n77	100M	BPSK	1	1	Back	15mm	Ant 7	ECI4	Main PA	656000	3840	-	23.35	24.00	1.161			0.15	0.198	0.230
	FR1 n77	100M	BPSK	135	69	Back	15mm	Ant 7	ECI4	Main PA	656000	3840	-	23.25	24.00	1.189			0.18	0.196	0.233
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 7	ECI3	Main PA	656000	3840	-	17.64	18.50	1.219			-0.04	0.402	0.490
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 7	ECI3	Main PA	656000	3840	-	17.60	18.50	1.23			0.12	0.334	0.411
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 7	ECI3	Main PA	656000	3840	-	17.64	18.50	1.219			-0.11	0.575	0.701
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 7	ECI3	Main PA	656000	3840	-	17.60	18.50	1.23			-0.15	0.470	0.578
	FR1 n77 HPUE	100M	BPSK	1	1	Back	5mm	Ant 7	ECI3	Main PA	656000	3840	-	20.63	21.50	1.222	50.0	1.0	-0.05	0.598	0.731
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 8	ECI3	Main PA	656000	3840	1C	16.62	17.50	1.225			-0.08	0.243	0.298
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 8	ECI3	Main PA	656000	3840	1C	16.57	17.50	1.239			-0.13	0.240	0.297
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 8	ECI3	Main PA	656000	3840	1C	16.62	17.50	1.225			-0.05	0.286	0.350
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 8	ECI3	Main PA	656000	3840	1C	16.57	17.50	1.239			-0.16	0.277	0.343
	FR1 n77 HPUE	100M	BPSK	1	1	Back	5mm	Ant 8	ECI3	Main PA	656000	3840	1C	19.59	20.50	1.233	50.0	1.0	0.06	0.264	0.326
	FR1 n77	100M	BPSK	1	1	Front	15mm	Ant 9	ECI4	Main PA	656000	3840	-	24.25	25.00	1.189			-0.15	0.470	0.559
	FR1 n77	100M	BPSK	135	69	Front	15mm	Ant 9	ECI4	Main PA	656000	3840	-	24.09	25.00	1.233			0.13	0.451	0.556
	FR1 n77	100M	BPSK	1	1	Back	15mm	Ant 9	ECI4	Main PA	656000	3840	-	24.25	25.00	1.189			0.10	0.382	0.454
	FR1 n77	100M	BPSK	135	69	Back	15mm	Ant 9	ECI4	Main PA	656000	3840	-	24.09	25.00	1.233			0.06	0.401	0.494
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 9	ECI3	Main PA	656000	3840	-	18.98	20.00	1.265			-0.10	0.748	0.946
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 9	ECI3	Main PA	656000	3840	-	18.94	20.00	1.276			0.06	0.618	0.789
	FR1 n77	100M	BPSK	270	0	Front	5mm	Ant 9	ECI3	Main PA	656000	3840	-	18.85	20.00	1.303			0.01	0.600	0.782
82	FR1 n77 HPUE	100M	BPSK	1	1	Front	5mm	Ant 9	ECI3	Main PA	656000	3840	-	21.93	23.00	1.279	50.0	1.0	0.03	0.763	0.976
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 9	ECI3	Main PA	656000	3840	-	18.98	20.00	1.265			0.03	0.593	0.750
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 9	ECI3	Main PA	656000	3840	-	18.94	20.00	1.276			0.13	0.577	0.736
	FR1 n78	100M	BPSK	1	1	Front	15mm	Ant 6	ECI4	Main PA	633332	3499.98	2	25.64	26.00	1.086			-0.14	0.465	0.505
	FR1 n78	100M	BPSK	135	69	Front	15mm	Ant 6	ECI4	Main PA	633332	3499.98	2	25.59	26.00	1.099			-0.11	0.396	0.435
	FR1 n78	100M	BPSK	1	1	Back	15mm	Ant 6	ECI4	Main PA	633332	3499.98	2	25.64	26.00	1.086			-0.18	0.500	0.543
	FR1 n78	100M	BPSK	135	69	Back	15mm	Ant 6	ECI4	Main PA	633332	3499.98	2	25.59	26.00	1.099			-0.02	0.415	0.456
	FR1 n78 HPUE	100M	BPSK	1	1	Back	15mm	Ant 6	ECI4	Main PA	633332	3499.98	2	27.38	28.00	1.153	50.0	1.0	0.03	0.397	0.458
	FR1 n78	100M	BPSK	1	1	Front	15mm	Ant 7	ECI4	Main PA	633332	3499.98	-	24.28	25.00	1.18			0.12	0.364	0.430
	FR1 n78	100M	BPSK	135	69	Front	15mm	Ant 7	ECI4	Main PA	633332	3499.98	-	24.23	25.00	1.194			-0.09	0.319	0.381
	FR1 n78	100M	BPSK	1	1	Back	15mm	Ant 7	ECI4	Main PA	633332	3499.98	-	24.28	25.00	1.18			-0.07	0.498	0.588
	FR1 n78	100M	BPSK	135	69	Back	15mm	Ant 7	ECI4	Main PA	633332	3499.98	-	24.23	25.00	1.194			0.15	0.469	0.560
	FR1 n78 HPUE	100M	BPSK	1	1	Back	15mm	Ant 7	ECI4	Main PA	633332	3499.98	-	25.70	27.00	1.349	50.0	1.0	0.01	0.366	0.494
	FR1 n78	100M	BPSK	1	1	Front	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	16.98	18.00	1.265			0.14	0.519	0.657
	FR1 n78	100M	BPSK	135	69	Front	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	16.95	18.00	1.274			-0.05	0.427	0.544
	FR1 n78	100M	BPSK	1	1	Back	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	16.98	18.00	1.265			-0.10	0.722	0.913



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	FR1 n78	100M	BPSK	135	69	Back	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	16.95	18.00	1.274			0.03	0.538	0.685
	FR1 n78	100M	BPSK	270	0	Back	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	16.90	18.00	1.288			-0.04	0.539	0.694
83	FR1 n78 HPUE	100M	BPSK	1	1	Back	5mm	Ant 8	ECI3	Main PA	633332	3499.98	1C	19.95	21.00	1.274	50.0	1.0	-0.03	0.767	0.977
	FR1 n78	100M	BPSK	1	1	Front	15mm	Ant 9	ECI4	Main PA	633332	3499.98	-	25.00	26.00	1.259			-0.12	0.598	0.753
	FR1 n78	100M	BPSK	135	69	Front	15mm	Ant 9	ECI4	Main PA	633332	3499.98	-	24.79	26.00	1.321			0.16	0.595	0.786
	FR1 n78	100M	BPSK	1	1	Back	15mm	Ant 9	ECI4	Main PA	633332	3499.98	-	25.00	26.00	1.259			-0.07	0.372	0.468
	FR1 n78	100M	BPSK	135	69	Back	15mm	Ant 9	ECI4	Main PA	633332	3499.98	-	24.79	26.00	1.321			-0.13	0.407	0.538
	FR1 n78 HPUE	100M	BPSK	135	69	Front	15mm	Ant 9	ECI4	Main PA	633332	3499.98	-	26.66	28.00	1.361	50.0	1.0	0.01	0.478	0.651
	FR1 n78	100M	BPSK	1	1	Front	15mm	Ant 6	ECI4	Main PA	650000	3750	2	25.66	26.00	1.081			0.02	0.325	0.351
	FR1 n78	100M	BPSK	135	69	Front	15mm	Ant 6	ECI4	Main PA	650000	3750	2	25.61	26.00	1.094			-0.02	0.329	0.360
	FR1 n78	100M	BPSK	1	1	Back	15mm	Ant 6	ECI4	Main PA	650000	3750	2	25.66	26.00	1.081			-0.08	0.336	0.363
	FR1 n78	100M	BPSK	135	69	Back	15mm	Ant 6	ECI4	Main PA	650000	3750	2	25.61	26.00	1.094			0.10	0.329	0.360
	FR1 n78 HPUE	100M	BPSK	1	1	Back	15mm	Ant 6	ECI4	Main PA	650000	3750	2	27.47	28.00	1.13	50.0	1.0	0.07	0.267	0.302
	FR1 n78	100M	BPSK	1	1	Front	15mm	Ant 7	ECI4	Main PA	650000	3750	-	24.33	25.00	1.167			-0.07	0.274	0.320
	FR1 n78	100M	BPSK	135	69	Front	15mm	Ant 7	ECI4	Main PA	650000	3750	-	24.18	25.00	1.208			-0.16	0.294	0.355
	FR1 n78	100M	BPSK	1	1	Back	15mm	Ant 7	ECI4	Main PA	650000	3750	-	24.33	25.00	1.167			0.06	0.414	0.483
	FR1 n78	100M	BPSK	135	69	Back	15mm	Ant 7	ECI4	Main PA	650000	3750	-	24.18	25.00	1.208			-0.14	0.402	0.486
	FR1 n78 HPUE	100M	BPSK	135	69	Back	15mm	Ant 7	ECI4	Main PA	650000	3750	-	25.54	27.00	1.4	50.0	1.0	0.02	0.296	0.414
	FR1 n78	100M	BPSK	1	1	Front	5mm	Ant 8	ECI3	Main PA	650000	3750	1C	16.96	18.00	1.271			-0.10	0.272	0.346
	FR1 n78	100M	BPSK	135	69	Front	5mm	Ant 8	ECI3	Main PA	650000	3750	1C	16.93	18.00	1.279			-0.05	0.266	0.340
	FR1 n78	100M	BPSK	1	1	Back	5mm	Ant 8	ECI3	Main PA	650000	3750	1C	16.96	18.00	1.271			-0.03	0.370	0.470
	FR1 n78	100M	BPSK	135	69	Back	5mm	Ant 8	ECI3	Main PA	650000	3750	1C	16.93	18.00	1.279			0.02	0.367	0.469
	FR1 n78 HPUE	100M	BPSK	1	1	Back	5mm	Ant 8	ECI3	Main PA	650000	3750	1C	19.97	21.00	1.268	50.0	1.0	0.09	0.385	0.488
	FR1 n78	100M	BPSK	1	1	Front	15mm	Ant 9	ECI4	Main PA	650000	3750	-	25.31	26.00	1.172			-0.18	0.576	0.675
	FR1 n78	100M	BPSK	135	69	Front	15mm	Ant 9	ECI4	Main PA	650000	3750	-	25.14	26.00	1.219			0.09	0.624	0.761
	FR1 n78	100M	BPSK	1	1	Back	15mm	Ant 9	ECI4	Main PA	650000	3750	-	25.31	26.00	1.172			-0.16	0.461	0.540
	FR1 n78	100M	BPSK	135	69	Back	15mm	Ant 9	ECI4	Main PA	650000	3750	-	25.14	26.00	1.219			0.14	0.454	0.553
	FR1 n78 HPUE	100M	BPSK	135	69	Front	15mm	Ant 9	ECI4	Main PA	650000	3750	-	26.83	28.00	1.309	50.0	1.0	-0.06	0.483	0.632

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WIFI/BT																
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 11	Body-worn Standalone	11	2462	19.91	20	1.021	98.3	1.017	0.14	0.555	0.576
84	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 11	Body-worn Standalone	11	2462	19.91	20	1.021	98.3	1.017	0.01	0.941	0.977
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 11	Body-worn Standalone	1	2412	19.65	20	1.084	98.3	1.017	0.11	0.844	0.930
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 5	Body-worn Standalone	6	2437	19.2	19.5	1.072	98.98	1.010	-0.17	0.683	0.739
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 5	Body-worn Standalone	6	2437	19.2	19.5	1.072	98.98	1.010	-0.02	0.758	0.821
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 5	Body-worn Standalone	11	2462	19.16	19.5	1.081	98.98	1.010	-0.05	0.657	0.717
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 5	DBS&non DBS	6	2437	17.26	17.5	1.057	98.98	1.010	0.07	0.437	0.467
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 5	DBS&non DBS	6	2437	17.26	17.5	1.057	98.98	1.010	0.18	0.485	0.518
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 5	WWAN+DBS&non DBS	6	2437	11.72	12	1.067	98.98	1.010	0.05	0.128	0.138
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 5	WWAN+DBS&non DBS	6	2437	11.72	12	1.067	98.98	1.010	0.06	0.142	0.153
	WLAN2.4GHz	802.11n-HT20 MCS0	Front	5mm	Ant 11+5(5)	Body-worn Standalone	6	2437	18.62	19	1.091	95.74	1.044	-0.17	0.622	0.708
	WLAN2.4GHz	802.11n-HT20 MCS0	Back	5mm	Ant 11+5(5)	Body-worn Standalone	6	2437	18.62	19	1.091	95.74	1.044	-0.09	0.751	0.855
	WLAN2.4GHz	802.11n-HT20 MCS0	Back	5mm	Ant 11+5(11)	Body-worn Standalone	11	2462	18.07	18.5	1.104	95.74	1.044	-0.08	0.627	0.723
	WLAN2.4GHz	802.11n-HT20 MCS0	Front	5mm	Ant 11+5(11)	WWAN+DBS&non DBS	11	2462	13.58	14	1.102	95.74	1.044	-0.16	0.179	0.206
	WLAN2.4GHz	802.11n-HT20 MCS0	Back	5mm	Ant 11+5(11)	WWAN+DBS&non DBS	11	2462	13.58	14	1.102	95.74	1.044	-0.02	0.210	0.242
	WLAN5GHz	802.11a 6Mbps	Front	5mm	Ant 6+13(13)	Body-worn Standalone	64	5320	18	18.5	1.122	96.39	1.037	0.06	0.609	0.709
85	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 6+13(13)	Body-worn Standalone	64	5320	18	18.5	1.122	96.39	1.037	-0.09	0.800	0.931
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 6+13(6)	Body-worn Standalone	56	5280	17.21	17.5	1.069	96.39	1.037	-0.09	0.759	0.841
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+13(13)	DBS&non DBS	50	5250	15.66	16	1.081	93.57	1.069	0.06	0.347	0.401
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 6+13(13)	DBS&non DBS	50	5250	15.66	16	1.081	93.57	1.069	-0.09	0.456	0.527
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+13(13)	WWAN+DBS&non DBS	50	5250	10.66	11	1.081	93.57	1.069	-0.08	0.103	0.119
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 6+13(13)	WWAN+DBS&non DBS	50	5250	10.66	11	1.081	93.57	1.069	0.1	0.135	0.156
	WLAN5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 6+13(13)	Body-worn Standalone	134	5670	17.31	17.5	1.045	92.77	1.078	-0.08	0.455	0.513
86	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 6+13(13)	Body-worn Standalone	134	5670	17.31	17.5	1.045	92.77	1.078	-0.04	0.879	0.990
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 6+13(6)	Body-worn Standalone	110	5550	17.21	17.5	1.069	92.77	1.078	0.03	0.800	0.922
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+13(6)	DBS&non DBS	114	5570	14.28	14.5	1.052	93.57	1.069	-0.1	0.247	0.278



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	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 6+13(6)	DBS&non DBS	114	5570	14.28	14.5	1.052	93.57	1.069	0.01	0.468	0.526
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+13(6)	WWAN+DBS&non DBS	114	5570	9.33	9.5	1.040	93.57	1.069	-0.18	0.072	0.080
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 6+13(6)	WWAN+DBS&non DBS	114	5570	9.33	9.5	1.040	93.57	1.069	0.1	0.140	0.156
	WLAN5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 6+13(13)	Body-worn Standalone	151	5755	16.67	17	1.079	92.77	1.078	0.01	0.488	0.568
87	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 6+13(13)	Body-worn Standalone	151	5755	16.67	17	1.079	92.77	1.078	0.04	0.869	1.011
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 6+13(13)	Body-worn Standalone	159	5795	16.56	17	1.107	92.77	1.078	-0.15	0.818	0.976
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+13(6)	DBS&non DBS	155	5775	14.36	14.5	1.033	96.6	1.035	-0.15	0.250	0.267
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+13(6)	DBS&non DBS	155	5775	14.36	14.5	1.033	96.6	1.035	0.19	0.486	0.520
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+13(6)	WWAN+DBS&non DBS	155	5775	9.39	9.5	1.026	96.6	1.035	0.12	0.083	0.088
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+13(6)	WWAN+DBS&non DBS	155	5775	9.39	9.5	1.026	96.6	1.035	0.08	0.147	0.156
	Bluetooth	1Mbps	Front	5mm	Ant 11	Body-worn Standalone	39	2441	16.63	18	1.371	76.86	1.084	-0.1	0.177	0.263
88	Bluetooth	1Mbps	Back	5mm	Ant 11	Body-worn Standalone	39	2441	16.63	18	1.371	76.86	1.084	0.01	0.290	0.431
	Bluetooth	1Mbps	Front	5mm	Ant 11+5(11)	WWAN+DBS&non DBS	0	2402	8.72	10.5	1.507	76.87	1.084	0.08	0.001	0.002
	Bluetooth	1Mbps	Back	5mm	Ant 11+5(11)	WWAN+DBS&non DBS	0	2402	8.72	10.5	1.507	76.87	1.084	0.01	0.048	0.078
	Bluetooth	1Mbps	Front	5mm	Ant 5	Body-worn Standalone	0	2402	16.45	18	1.429	76.87	1.084	0.07	0.219	0.339
	Bluetooth	1Mbps	Back	5mm	Ant 5	Body-worn Standalone	0	2402	16.45	18	1.429	76.87	1.084	-0.08	0.254	0.393
	Bluetooth	1Mbps	Front	5mm	Ant 11+5(5)	WWAN+DBS&non DBS	0	2402	9.69	11.5	1.517	76.87	1.084	0.03	0.044	0.072
	Bluetooth	1Mbps	Back	5mm	Ant 11+5(5)	WWAN+DBS&non DBS	0	2402	9.69	11.5	1.517	76.87	1.084	-0.08	0.054	0.089

Plot No.	Band	BW (MHz)	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 6+13(6)	Body-worn Standalone	135	6625	14.66	15.00	1.081	95.93	1.042	-0.08	0.102	0.115	0.678
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 6+13(6)	Body-worn Standalone	135	6625	14.66	15.00	1.081	95.93	1.042	0.01	0.147	0.166	1.07
89	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 6+13(13)	Body-worn Standalone	31	6105	13.71	14.00	1.069	86.48	1.156	-0.04	0.286	0.353	2.24
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 6+13(6)	Body-worn Standalone	63	6265	13.41	13.50	1.021	86.48	1.156	-0.03	0.201	0.237	1.45
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 6+13(6)	Body-worn Standalone	95	6425	14.15	14.50	1.084	86.48	1.156	-0.09	0.145	0.182	0.926
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 6+13(13)	Body-worn Standalone	127	6585	13.02	13.50	1.117	86.48	1.156	0.05	0.122	0.158	0.791
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 6+13(6)	Body-worn Standalone	191	6905	12.57	13.50	1.238	86.48	1.156	0.01	0.078	0.112	0.513
	WLAN6GHz	802.11be-EHT320 MCS0	Front	5mm	Ant 6+13(6)	WWAN+DBS&non DBS	191	6905	12.57	13.50	1.238	86.48	1.156	-0.06	0.063	0.090	0.416
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 6+13(6)	WWAN+DBS&non DBS	191	6905	12.57	13.50	1.238	86.48	1.156	0.01	0.078	0.112	0.513
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 6+13(13)	WWAN+DBS&non DBS	31	6105	10.71	11.00	1.069	86.48	1.156	-0.04	0.106	0.131	0.792
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 6+13(6)	WWAN+DBS&non DBS	63	6265	9.41	9.50	1.021	86.48	1.156	-0.01	0.099	0.117	0.704
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 6+13(6)	WWAN+DBS&non DBS	95	6425	10.15	10.50	1.084	86.48	1.156	0.06	0.093	0.117	0.661
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 6+13(13)	WWAN+DBS&non DBS	127	6585	13.02	13.50	1.117	86.48	1.156	0.05	0.122	0.158	0.791
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 6+13(6)	WWAN+DBS&non DBS	159	6625	10.62	11.00	1.091	86.48	1.156	0.02	0.103	0.130	0.668



16.4 Product specific 10g SAR

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
90	LTE Band 13	10M	QPSK	1	0	Left Side	0mm	Ant 1	ECI3	Main PA	23230	782	-	22.18	22.70	1.127	0.01	1.260	1.420
	LTE Band 13	10M	QPSK	25	0	Left Side	0mm	Ant 1	ECI3	Main PA	23230	782	-	22.12	22.70	1.143	0.17	1.020	1.166
	LTE Band 26	15M	QPSK	1	0	Back	0mm	Ant 1	ECI3	Main PA	26865	831.5	-	21.18	21.70	1.127	-0.17	1.400	1.578
	LTE Band 26	15M	QPSK	36	0	Back	0mm	Ant 1	ECI3	Main PA	26865	831.5	-	21.12	21.70	1.143	-0.17	1.050	1.200
91	LTE Band 26	15M	QPSK	1	0	Left Side	0mm	Ant 1	ECI3	Main PA	26865	831.5	-	21.18	21.70	1.127	0.02	1.430	1.612
	LTE Band 26	15M	QPSK	36	0	Left Side	0mm	Ant 1	ECI3	Main PA	26865	831.5	-	21.12	21.70	1.143	-0.11	1.070	1.223

【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Power State Note	Ch.	Freq. (MHz)	Code	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
92	FR1 n12	15M	BPSK	1	1	Back	0mm	Ant 1	ECI3	Main PA	141500	707.5	-	22.43	22.70	1.064	-0.03	0.691	0.735
	FR1 n12	15M	BPSK	36	22	Back	0mm	Ant 1	ECI3	Main PA	141500	707.5	-	22.32	22.70	1.091	0.08	0.474	0.517
	FR1 n12	15M	BPSK	1	1	Left Side	0mm	Ant 1	ECI3	Main PA	141500	707.5	-	22.43	22.70	1.064	0.17	0.462	0.492
	FR1 n12	15M	BPSK	36	22	Left Side	0mm	Ant 1	ECI3	Main PA	141500	707.5	-	22.32	22.70	1.091	0.13	0.350	0.382
93	FR1 n26	20M	BPSK	1	1	Back	0mm	Ant 1	ECI3	Main PA	166300	831.5	-	21.24	21.70	1.112	-0.10	0.630	0.701
	FR1 n26	20M	BPSK	50	28	Back	0mm	Ant 1	ECI3	Main PA	166300	831.5	-	21.20	21.70	1.122	0.02	0.540	0.606
	FR1 n26	20M	BPSK	1	1	Left Side	0mm	Ant 1	ECI3	Main PA	166300	831.5	-	21.24	21.70	1.112	-0.11	0.557	0.619
	FR1 n26	20M	BPSK	50	28	Left Side	0mm	Ant 1	ECI3	Main PA	166300	831.5	-	21.20	21.70	1.122	-0.12	0.527	0.591

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
WIFI																
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 6+13(13)	Extremity Standalone	64	5320	18	18.5	1.122	96.39	1.037	-0.18	1.12	1.303
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 6+13(13)	Extremity Standalone	64	5320	18	18.5	1.122	96.39	1.037	0.03	0.435	0.506
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 6+13(13)	Extremity Standalone	64	5320	18	18.5	1.122	96.39	1.037	-0.15	0.099	0.115
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 6+13(13)	Extremity Standalone	64	5320	18	18.5	1.122	96.39	1.037	-0.15	1.15	1.338
94	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6+13(13)	Extremity Standalone	64	5320	18	18.5	1.122	96.39	1.037	-0.04	1.91	2.222
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6+13(6)	Extremity Standalone	56	5280	17.21	17.5	1.069	96.39	1.037	0.11	1.85	2.051
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 6+13(13)	Extremity Standalone	134	5670	17.31	17.5	1.045	92.77	1.078	-0.08	0.798	0.899
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+13(13)	Extremity Standalone	134	5670	17.31	17.5	1.045	92.77	1.078	0.13	0.354	0.399
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 6+13(13)	Extremity Standalone	134	5670	17.31	17.5	1.045	92.77	1.078	0.12	0.071	0.080
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6+13(13)	Extremity Standalone	134	5670	17.31	17.5	1.045	92.77	1.078	0.03	1.18	1.329
95	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6+13(13)	Extremity Standalone	134	5670	17.31	17.5	1.045	92.77	1.078	-0.14	2.04	2.298
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6+13(6)	Extremity Standalone	110	5550	17.21	17.5	1.069	92.77	1.078	0.18	1.91	2.201

Plot No.	Band	BW (MHz)	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 6+13(6)	Extremity standalone	135	6625	14.66	15.00	1.081	95.93	1.042	-0.15	0.116	0.131	2.58
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 6+13(6)	Extremity standalone	135	6625	14.66	15.00	1.081	95.93	1.042	0.01	0.044	0.050	0.974
	WLAN6GHz	802.11ax-HE80 MCS0	Left Side	0mm	Ant 6+13(6)	Extremity standalone	135	6625	14.66	15.00	1.081	95.93	1.042	0.08	0.003	0.003	0.078
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	0mm	Ant 6+13(6)	Extremity standalone	135	6625	14.66	15.00	1.081	95.93	1.042	-0.09	0.020	0.023	0.463
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	0mm	Ant 6+13(6)	Extremity standalone	135	6625	14.66	15.00	1.081	95.93	1.042	0.01	0.187	0.211	4.33
	WLAN6GHz	802.11ax-HE80 MCS0	Bottom Side	0mm	Ant 6+13(6)	Extremity standalone	135	6625	14.66	15.00	1.081	95.93	1.042	-0.06	0.018	0.020	0.109
96	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+13(13)	Extremity standalone	31	6105	13.71	14.00	1.069	86.48	1.156	-0.03	0.439	0.543	10.4
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+13(6)	Extremity standalone	63	6265	13.41	13.50	1.021	86.48	1.156	0.15	0.318	0.375	7.48
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+13(6)	Extremity standalone	95	6425	14.15	14.50	1.084	86.48	1.156	0.11	0.183	0.229	4.3
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+13(13)	Extremity standalone	127	6585	13.02	13.50	1.117	86.48	1.156	-0.04	0.147	0.190	3.4
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+13(6)	Extremity standalone	191	6905	12.57	13.50	1.238	86.48	1.156	-0.07	0.106	0.152	2.45



16.5 6GHz PD Test Result

<WLAN PD>

Band	Mode	Test Position	Gap (mm)	Antenna	Power state	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 6+13(13)	For Extremity Standalone	31	6105	13.71	0.0625	1.06	-0.47	1.660	4.140
WLAN6GHz	802.11be-EHT320 MCS0	Top Side	10mm	Ant 6+13(13)	For Extremity Standalone	31	6105	13.71	0.15	1.18		0.882	1.020
WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 6+13(6)	For Extremity Standalone	191	6905	12.57	0.0625	0.931	3.44	1.910	2.760
WLAN6GHz	802.11be-EHT320 MCS0	Top Side	8.59mm	Ant 6+13(6)	For Extremity Standalone	191	6905	12.57	0.15	0.422		0.177	0.211

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power state	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (λ)	Scaling Factor for measurement uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
01	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 6+13(13)	For Extremity Standalone	31	6105	13.71	14.00	1.069	86.48	1.156	0.0625	1.5535	-0.12	1.660	3.19	4.140	7.95
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 6+13(6)	For Extremity Standalone	63	6265	13.41	13.50	1.021	86.48	1.156	0.0625	1.5535	0.01	1.400	2.57	2.270	4.16
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 6+13(6)	For Extremity Standalone	95	6425	14.15	14.50	1.084	86.48	1.156	0.0625	1.5535	0.05	1.760	3.43	2.610	5.08
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 6+13(13)	For Extremity Standalone	127	6585	13.02	13.50	1.117	86.48	1.156	0.0625	1.5535	-0.06	0.799	1.60	1.710	3.43
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	2mm	Ant 6+13(6)	For Extremity Standalone	135	6625	14.66	15.00	1.081	95.93	1.042	0.0625	1.5535	0.07	2.870	5.02	3.950	6.91
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 6+13(6)	For Extremity Standalone	191	6905	12.57	13.50	1.238	86.48	1.156	0.0625	1.5535	0.02	1.910	4.25	2.760	6.14
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 6+13(13)	For Head Standalone	31	6105	14.60	15.00	1.096	86.48	1.156	0.0625	1.5535	0.04	2.520	4.96	3.550	6.99
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 6+13(6)	For Head Standalone	63	6265	13.41	13.50	1.021	86.48	1.156	0.0625	1.5535	-0.18	1.450	2.66	2.480	4.55
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 6+13(6)	For Head Standalone	95	6425	14.15	14.50	1.084	86.48	1.156	0.0625	1.5535	0.15	1.940	3.78	3.230	6.29
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 6+13(6)	For Head Standalone	127	6585	13.02	13.50	1.117	86.48	1.156	0.0625	1.5535	-0.14	3.100	6.22	4.150	8.32
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 6+13(6)	For Head Standalone	159	6745	13.62	14.00	1.091	86.48	1.156	0.0625	1.5535	0.06	2.450	4.80	4.040	7.92
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 6+13(6)	For Head Standalone	191	6905	12.57	13.50	1.238	86.48	1.156	0.0625	1.5535	0.09	0.961	2.14	2.250	5.00

16.6 Repeated SAR Measurement

【Repeat SAR 1g - FCC】

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Code	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)	Ratio
1st	FR1 n12	15M_BPSK_36_22	Left Cheek	0.0	Ant 1	ECI1	141500	707.5	-	22.75	23.20	1.109			-0.03	0.974	1.080	-
2nd	FR1 n12	15M_BPSK_36_22	Left Cheek	0.0	Ant 1	ECI1	141500	707.5	-	22.75	23.20	1.109			0.02	0.966	1.071	1.01
1st	LTE Band 26	15M_QPSK_1_0	Left Cheek	0.0	Ant 1	ECI1	26865	831.5	-	21.58	22.20	1.153			-0.00	0.912	1.052	-
2nd	LTE Band 26	15M_QPSK_1_0	Left Cheek	0.0	Ant 1	ECI1	26865	831.5	-	21.58	22.20	1.153			0.05	0.903	1.041	1.01
1st	FR1 n66	40M_BPSK_1_1	Back	5.0	Ant 2	ECI3	349000	1745	-	19.99	20.70	1.178			0.10	0.915	1.078	-
2nd	FR1 n66	40M_BPSK_1_1	Back	5.0	Ant 2	ECI3	349000	1745	-	19.99	20.70	1.178			0.05	0.901	1.061	1.02
1st	FR1 n25	40M_BPSK_1_1	Back	5.0	Ant 2	ECI3	376500	1882.5	-	20.28	21.00	1.18			0.16	0.883	1.042	-
2nd	FR1 n25	40M_BPSK_1_1	Back	5.0	Ant 2	ECI3	376500	1882.5	-	20.28	21.00	1.18			0.06	0.875	1.033	1.01
1st	LTE Band 41	20M_QPSK_1_0	Back	5.0	Ant 3	ECI3	41055	2636.5	-	22.76	23.20	1.107	62.9	1.006	0.10	0.975	1.086	-
2nd	LTE Band 41	20M_QPSK_1_0	Back	5.0	Ant 3	ECI3	41055	2636.5	-	22.76	23.20	1.107	62.9	1.006	0.06	0.966	1.076	1.01
1st	FR1 n77_HPUE	100M_BPSK_1_1	Back	5.0	Ant 6	ECI3	633332	3499.98	2	21.59	22.00	1.099	50.0	1.0	0.04	0.871	0.957	-
2nd	FR1 n77_HPUE	100M_BPSK_1_1	Back	5.0	Ant 6	ECI3	633332	3499.98	2	21.59	22.00	1.099	50.0	1.0	0.06	0.863	0.948	1.01

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16.7 NR Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for 5GNR n41/n77/n78. The highest available duty cycle for Power Class 2 operation is 50% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each 5GNR configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

NR n77 Part27Q (HPUE)-Linearity Data for Head Ant6			NR n77 Part27O (HPUE)-Linearity Data for Head Ant6		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.00	19.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.835	0.898	Reported 1g SAR (W/kg)	0.352	0.325
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	39.81	39.72	Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.833		Linearity SAR (W/kg)	0.351	
% deviation from expected linearity		7.80%	% deviation from expected linearity		-7.45%
NR n77 Part27Q (HPUE)-Linearity Data for Body-worn Ant6			NR n77 Part27O (HPUE)-Linearity Data for Body-worn Ant6		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	22.00	Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	0.919	0.957	Reported 1g SAR (W/kg)	0.465	0.490
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	79.43	79.24	Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	0.917		Linearity SAR (W/kg)	0.464	
% deviation from expected linearity		4.38%	% deviation from expected linearity		5.63%
NR n78 Part27Q (HPUE)-Linearity Data for Body-worn Ant6			NR n78 Part27O (HPUE)-Linearity Data for Body-worn Ant6		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	26.00	28.00	Maximum Tune up Power (dBm)	26.00	28.00
Reported 1g SAR (W/kg)	0.543	0.458	Reported 1g SAR (W/kg)	0.363	0.302
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	398.11	315.48	Frame Averaged (mW)	398.11	315.48
Linearity SAR (W/kg)	0.430		Linearity SAR (W/kg)	0.288	
% deviation from expected linearity		6.44%	% deviation from expected linearity		4.99%
NR n77 Part27Q (HPUE)-Linearity Data for Hotspot Ant6			NR n77 Part27O (HPUE)-Linearity Data for Hotspot Ant6		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.00	19.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.346	0.359	Reported 1g SAR (W/kg)	0.241	0.249
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	39.81	39.72	Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.345		Linearity SAR (W/kg)	0.240	
% deviation from expected linearity		4.00%	% deviation from expected linearity		3.56%
NR n41(HPUE)-Linearity Data for Head Ant2			NR n41(HPUE)-Linearity Data for Head Ant3		
	NR n41 (Power Class 3)	NR n41 (Power Class 2)		NR n41 (Power Class 3)	NR n41 (Power Class 2)
Maximum Tune up Power (dBm)	17.20	20.50	Maximum Tune up Power (dBm)	17.20	21.00
Reported 1g SAR (W/kg)	0.866	0.984	Reported 1g SAR (W/kg)	0.841	1.043
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	52.48	56.10	Frame Averaged (mW)	52.48	62.95
Linearity SAR (W/kg)	0.926		Linearity SAR (W/kg)	1.009	
% deviation from expected linearity		6.29%	% deviation from expected linearity		3.40%
NR n41(HPUE)-Linearity Data for Body worn Ant2			NR n41(HPUE)-Linearity Data for Body worn Ant3		
	NR n41 (Power Class 3)	NR n41 (Power Class 2)		NR n41 (Power Class 3)	NR n41 (Power Class 2)
Maximum Tune up Power (dBm)	25.20	27.50	Maximum Tune up Power (dBm)	25.70	28.00
Reported 1g SAR (W/kg)	0.898	0.778	Reported 1g SAR (W/kg)	0.794	0.654
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%



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Frame Averaged (mW)	331.13	281.17		Frame Averaged (mW)	371.54	315.48
Linearity SAR (W/kg)	0.763			Linearity SAR (W/kg)	0.674	
% deviation from expected linearity		2.03%		% deviation from expected linearity		-3.00%
NR n41(HPUE)-Linearity Data for Hotspot Ant2				NR n41(HPUE)-Linearity Data for Hotspot Ant3		
	NR n41 (Power Class 3)	NR n41 (Power Class 2)			NR n41 (Power Class 3)	NR n41 (Power Class 2)
Maximum Tune up Power (dBm)	17.20	20.50		Maximum Tune up Power (dBm)	17.20	21.00
Reported 1g SAR (W/kg)	0.449	0.505		Reported 1g SAR (W/kg)	0.302	0.372
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	52.48	56.10		Frame Averaged (mW)	52.48	62.95
Linearity SAR (W/kg)	0.480			Linearity SAR (W/kg)	0.362	
% deviation from expected linearity		5.21%		% deviation from expected linearity		2.70%

NR n77 Part27Q (HPUE)-Linearity Data for Head Ant7				NR n77 Part27O (HPUE)-Linearity Data for Head Ant7		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.00	20.00		Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.542	0.577		Reported 1g SAR (W/kg)	0.521	0.491
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00		Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.541			Linearity SAR (W/kg)	0.520	
% deviation from expected linearity		6.71%		% deviation from expected linearity		-5.53%
NR n77 Part27Q (HPUE)-Linearity Data for Body-worn Ant7				NR n77 Part27O (HPUE)-Linearity Data for Body-worn Ant7		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50		Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.850	0.904		Reported 1g SAR (W/kg)	0.701	0.731
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63		Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.848			Linearity SAR (W/kg)	0.699	
% deviation from expected linearity		6.61%		% deviation from expected linearity		4.53%
NR n78 Part27Q (HPUE)-Linearity Data for Body-worn Ant7				NR n78 Part27O (HPUE)-Linearity Data for Body-worn Ant7		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	25.00	27.00		Maximum Tune up Power (dBm)	25.00	27.00
Reported 1g SAR (W/kg)	0.588	0.494		Reported 1g SAR (W/kg)	0.486	0.414
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	316.23	250.59		Frame Averaged (mW)	316.23	250.59
Linearity SAR (W/kg)	0.466			Linearity SAR (W/kg)	0.385	
% deviation from expected linearity		6.02%		% deviation from expected linearity		7.50%
NR n77 Part27Q (HPUE)-Linearity Data for Hotspot Ant7				NR n77 Part27O (HPUE)-Linearity Data for Hotspot Ant7		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.00	20.00		Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.372	0.394		Reported 1g SAR (W/kg)	0.271	0.280
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00		Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.371			Linearity SAR (W/kg)	0.270	
% deviation from expected linearity		6.17%		% deviation from expected linearity		3.57%
NR n41(HPUE)-Linearity Data for Head Ant4				NR n41(HPUE)-Linearity Data for Head Ant5		
	NR n41 (Power Class 3)	NR n41 (Power Class 2)			NR n41 (Power Class 3)	NR n41 (Power Class 2)
Maximum Tune up Power (dBm)	25.70	27.00		Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.229	0.149		Reported 1g SAR (W/kg)	1.002	1.068
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	371.54	250.59		Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.154			Linearity SAR (W/kg)	1.000	
% deviation from expected linearity		-3.53%		% deviation from expected linearity		6.84%
NR n41(HPUE)-Linearity Data for Body worn Ant4				NR n41(HPUE)-Linearity Data for Body worn Ant5		
	NR n41 (Power Class 3)	NR n41 (Power Class 2)			NR n41 (Power Class 3)	NR n41 (Power Class 2)
Maximum Tune up Power (dBm)	20.70	24.00		Maximum Tune up Power (dBm)	19.50	22.50



Reported 1g SAR (W/kg)	0.891	0.917		Reported 1g SAR (W/kg)	0.903	0.950
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	117.49	125.59		Frame Averaged (mW)	89.13	88.91
Linearity SAR (W/kg)	0.952			Linearity SAR (W/kg)	0.901	
% deviation from expected linearity		-3.72%		% deviation from expected linearity		5.45%
NR n41(HPUE)-Linearity Data for Hotspot Ant4				NR n41(HPUE)-Linearity Data for Hotspot Ant5		
	NR n41 (Power Class 3)	NR n41 (Power Class 2)			NR n41 (Power Class 3)	NR n41 (Power Class 2)
Maximum Tune up Power (dBm)	20.70	24.00		Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.335	0.374		Reported 1g SAR (W/kg)	0.510	0.537
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	117.49	125.59		Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.358			Linearity SAR (W/kg)	0.509	
% deviation from expected linearity		4.44%		% deviation from expected linearity		5.54%

NR n77 Part27Q (HPUE)-Linearity Data for Head Ant8				NR n77 Part27O (HPUE)-Linearity Data for Head Ant8		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	14.00	17.00		Maximum Tune up Power (dBm)	14.00	17.00
Reported 1g SAR (W/kg)	0.932	0.986		Reported 1g SAR (W/kg)	0.462	0.456
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	25.12	25.06		Frame Averaged (mW)	25.12	25.06
Linearity SAR (W/kg)	0.930			Linearity SAR (W/kg)	0.461	
% deviation from expected linearity		6.05%		% deviation from expected linearity		-1.06%
NR n77 Part27Q (HPUE)-Linearity Data for Body-worn Ant8				NR n77 Part27O (HPUE)-Linearity Data for Body-worn Ant8		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50		Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.939	0.975		Reported 1g SAR (W/kg)	0.350	0.326
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10		Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.937			Linearity SAR (W/kg)	0.349	
% deviation from expected linearity		4.08%		% deviation from expected linearity		-6.64%
NR n78 Part27Q (HPUE)-Linearity Data for Body-worn Ant8				NR n78 Part27O (HPUE)-Linearity Data for Body-worn Ant8		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00		Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.913	0.977		Reported 1g SAR (W/kg)	0.470	0.488
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95		Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.911			Linearity SAR (W/kg)	0.469	
% deviation from expected linearity		7.26%		% deviation from expected linearity		4.08%
NR n77 Part27Q (HPUE)-Linearity Data for Hotspot Ant8				NR n77 Part27O (HPUE)-Linearity Data for Hotspot Ant8		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	14.00	17.00		Maximum Tune up Power (dBm)	14.00	17.00
Reported 1g SAR (W/kg)	0.356	0.374		Reported 1g SAR (W/kg)	0.217	0.231
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	25.12	25.06		Frame Averaged (mW)	25.12	25.06
Linearity SAR (W/kg)	0.355			Linearity SAR (W/kg)	0.216	
% deviation from expected linearity		5.31%		% deviation from expected linearity		6.70%

NR n77 Part27Q (HPUE)-Linearity Data for Head Ant9				NR n77 Part27O (HPUE)-Linearity Data for Head Ant9		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.00	20.00		Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.932	0.967		Reported 1g SAR (W/kg)	0.989	1.017
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00		Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.930			Linearity SAR (W/kg)	0.987	
% deviation from expected linearity		4.00%		% deviation from expected linearity		3.08%



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NR n77 Part27Q (HPUE)-Linearity Data for Body-worn Ant9			NR n77 Part27O (HPUE)-Linearity Data for Body-worn Ant9		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	20.00	23.00	Maximum Tune up Power (dBm)	20.00	23.00
Reported 1g SAR (W/kg)	0.838	0.862	Reported 1g SAR (W/kg)	0.946	0.976
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	100.00	99.76	Frame Averaged (mW)	100.00	99.76
Linearity SAR (W/kg)	0.836		Linearity SAR (W/kg)	0.944	
% deviation from expected linearity		3.11%	% deviation from expected linearity		3.42%
NR n78 Part27Q (HPUE)-Linearity Data for Body-worn Ant9			NR n78 Part27O (HPUE)-Linearity Data for Body-worn Ant9		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	26.00	28.00	Maximum Tune up Power (dBm)	26.00	28.00
Reported 1g SAR (W/kg)	0.786	0.651	Reported 1g SAR (W/kg)	0.761	0.632
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	398.11	315.48	Frame Averaged (mW)	398.11	315.48
Linearity SAR (W/kg)	0.623		Linearity SAR (W/kg)	0.603	
% deviation from expected linearity		4.52%	% deviation from expected linearity		4.80%
NR n77 Part27Q (HPUE)-Linearity Data for Hotspot Ant9			NR n77 Part27O (HPUE)-Linearity Data for Hotspot Ant9		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.00	20.00	Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.211	0.217	Reported 1g SAR (W/kg)	0.186	0.196
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00	Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.211		Linearity SAR (W/kg)	0.186	
% deviation from expected linearity		3.09%	% deviation from expected linearity		5.63%

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
2.	WWAN + 5GHz WLAN	Yes	Yes	Yes	Yes
3.	WWAN + 6GHz WLAN	Yes	Yes		Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
6.	6GHz WLAN + Bluetooth	Yes	Yes		Yes
7.	5GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
8.	6GHz WLAN + 2.4GHz WLAN	Yes	Yes		Yes
9.	5GHz WLAN + 2.4GHz WLAN+ Bluetooth	Yes	Yes	Yes	Yes
10.	6GHz WLAN + 2.4GHz WLAN+ Bluetooth	Yes	Yes		Yes
11.	WWAN +2.4GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
12.	WWAN +5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
13.	WWAN +6GHz WLAN + Bluetooth	Yes	Yes		Yes
14.	WWAN +5GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
15.	WWAN +6GHz WLAN + 2.4GHz WLAN	Yes	Yes		Yes
16.	WWAN +5GHz WLAN + 2.4GHz WLAN+ Bluetooth	Yes	Yes	Yes	Yes
17.	WWAN +6GHz WLAN + 2.4GHz WLAN+ Bluetooth	Yes	Yes		Yes
18.	WWAN + 2.4GHz WLAN + NFC				Yes
19.	WWAN + 5GHz WLAN + NFC				Yes
20.	WWAN + 6GHz WLAN + NFC				Yes
21.	WWAN + Bluetooth+ NFC				Yes
22.	5GHz WLAN + Bluetooth+ NFC				Yes
23.	6GHz WLAN + Bluetooth+ NFC				Yes
24.	5GHz WLAN + 2.4GHz WLAN+ NFC				Yes
25.	6GHz WLAN + 2.4GHz WLAN+ NFC				Yes
26.	5GHz WLAN + 2.4GHz WLAN+ Bluetooth+ NFC				Yes
27.	6GHz WLAN + 2.4GHz WLAN+ Bluetooth+ NFC				Yes
28.	WWAN + 2.4GHz WLAN + Bluetooth+ NFC				Yes
29.	WWAN +5GHz WLAN + Bluetooth+ NFC				Yes
30.	WWAN +6GHz WLAN + Bluetooth+ NFC				Yes
31.	WWAN +5GHz WLAN + 2.4GHz WLAN+ NFC				Yes
32.	WWAN +6GHz WLAN + 2.4GHz WLAN+ NFC				Yes
33.	WWAN +5GHz WLAN + 2.4GHz WLAN+ Bluetooth+ NFC				Yes
34.	WWAN +6GHz WLAN + 2.4GHz WLAN+ Bluetooth+ NFC				Yes

General Note:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands and EN-DC combination.
3. WLAN5GHz/6GHz MIMO SAR can represent SISO SAR to do co-located SAR analysis.
4. EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
5. For EN-DC mode, MediaTek TA-SAR algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. TA-SAR 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.
6. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
7. 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). WLAN 6GHz has no hotspot function.
8. According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.

9. According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously.
10. According to the EUT characteristic, when WLAN 2.4GHz and Bluetooth share the same antenna path and cannot transmit simultaneously; when WLAN2.4GHz ant5 and Bluetooth ant11 are located on different antennas, they can transmit simultaneously, and when WLAN2.4GHz ant11 and Bluetooth ant5 are located on different antennas, they cannot transmit simultaneously.
11. According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can't transmit simultaneously.
12. NFC can transmit simultaneously with other Radios in extremity exposure condition.
13. Since WPT is designed for desktop charging applications and only operate on extremity exposure conditions.
14. For Headset SAR and non-Headset SAR always chose higher SAR to do co-located analysis.
15. For distance SAR and non-distance SAR always chose higher SAR to do co-located analysis.
16. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
17. When stand-alone SAR is not required for a transmitter or antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
18. For co-located SAR with WWAN/Bluetooth, always chose higher SAR among WLAN5GHz and WLAN 6GHz, it is the worst co-located analysis and can represent each WLAN5GHz bands and each WLAN6GHz bands.
19. 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. This is the worst co-located analysis and can represent each band.
20. The maximum SAR summation is calculated based on the same configuration and test position.
21. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - v) The SPLSR calculated results please refer to section 17.7.
22. Since the WPT will only operate on body condition, therefore, WPT transmit with WWAN/WLAN/BT only consider at hotspot / body-worn/extremity conditions, the further Sim-Tx analysis include in 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/NR inter-band uplink, LTE1 + LTE(NR)2 + 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/NR + WLAN + BT < 1.

The device also enabled Mediatek's TA-SAR 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)	ANT1 & ANT2 & ANT3 & ANT5 & ANT6 & ANT7 & ANT8 & ANT9
Antenna Group 1 (AG1)	ANT0 & ANT4

Note that BT operations are not enabled with TA-SAR 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 17.7 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	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	MAX
Right Cheek	0.809	1.088	1.086	0.830	0.341	0.577	0.165	1.040	1.088
Right Tilted	0.147	0.409	1.089	0.160	0.406	0.170	0.107	0.862	1.089
Left Cheek	1.086	0.449	0.790	1.086	0.708	0.268	1.049	0.313	1.086
Left Tilted	0.179	0.195	0.907	0.390	0.907	0.085	0.311	0.372	0.907

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant4	MAX
Right Cheek	0.318	0.272	0.318
Right Tilted	0.190	0.176	0.190
Left Cheek	0.311	0.336	0.336
Left Tilted	0.145	0.151	0.151

<WLAN2.4GHz/5GHz/6GHz +BT Worse-case SAR>:

NO	1	2	3	4	5				
Test Position	WLAN2.4GHz Ant 5 WWAN+DBS&non DBS	WLAN2.4GHz Ant 11+5 WWAN+DBS&non DBS	WLAN5GHz& WLAN6GHz Ant 6+13 WWAN+DBS&non DBS	Bluetooth Ant 11 MIMO WWAN+DBS&non DBS	Bluetooth Ant 5 MIMO WWAN+DBS&non DBS	3+4+5	1+3+4	2+3	WLAN+BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Right Cheek	0.099	0.084	0.075	0.002	0.002	0.079	0.176	0.159	0.176
Right Tilted	0.021	0.099	0.092	0.005	0.002	0.099	0.118	0.191	0.191
Left Cheek	0.155	0.240	0.144	0.090	0.104	0.338	0.389	0.384	0.389
Left Tilted	0.126	0.180	0.158	0.109	0.002	0.269	0.393	0.338	0.393

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

Test Position	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Right Cheek	1.088	0.318	0.176	1.58
Right Tilted	1.089	0.190	0.191	1.47
Left Cheek	1.086	0.336	0.389	1.81
Left Tilted	0.907	0.151	0.393	1.45

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

Left Cheek					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.311	1.086	0.389	1.79	Case 1
Ant0-Ant2	0.311	0.449	0.389	1.15	-
Ant0-Ant3	0.311	0.790	0.389	1.49	-
Ant0-Ant5	0.311	1.086	0.389	1.79	Case 2
Ant0-Ant6	0.311	0.708	0.389	1.41	-
Ant0-Ant7	0.311	0.268	0.389	0.97	-
Ant0-Ant8	0.311	1.049	0.389	1.75	Case 3
Ant0-Ant9	0.311	0.313	0.389	1.01	-
Ant4-Ant1	0.336	1.086	0.389	1.81	Case 4
Ant4-Ant2	0.336	0.449	0.389	1.17	-
Ant4-Ant3	0.336	0.790	0.389	1.52	-
Ant4-Ant5	0.336	1.086	0.389	1.81	Case 5
Ant4-Ant6	0.336	0.708	0.389	1.43	-
Ant4-Ant7	0.336	0.268	0.389	0.99	-
Ant4-Ant8	0.336	1.049	0.389	1.77	Case 6
Ant4-Ant9	0.336	0.313	0.389	1.04	-

<Simultaneous Transmission analysis of WLAN+BT and WWAN cell-off >:

NO	1	2	3	4	5	3+4+5	1+3+4	2+3
Test Position	WLAN2.4GHz Ant 5 DBS&non DBS	WLAN2.4GHz Ant 11+5 DBS&non DBS	WLAN5GHz& WLAN6GHz Ant 6+13 DBS&non DBS	Bluetooth Ant 11 MIMO DBS&non DBS	Bluetooth Ant 5 MIMO DBS&non DBS			
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Right Cheek	0.341	0.363	0.247	0.229	0.270	0.75	0.82	0.61
Right Tilted	0.072	0.427	0.306	0.289	0.002	0.60	0.67	0.73
Left Cheek	0.522	1.089	0.485	0.497	0.528	1.51	1.50	1.57
Left Tilted	0.165	0.774	0.560	0.468	0.138	1.17	1.19	1.33

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	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	MAX
Front	0.663	0.273	0.353	0.519	0.169	0.515	0.216	0.199	0.663
Back	0.745	0.352	0.423	0.592	0.175	0.595	0.219	0.156	0.745
Left Side	0.843	0.543	0.250	0.001	0.026	0.869	0.001	0.149	0.869
Right Side	0.088	0.001	0.001	0.891	0.162	0.066	0.414	0.068	0.891
Top Side	0.031	0.113	0.626	0.121	0.406	0.229	0.062	0.217	0.626
Bottom Side	0.001	0.001	0.001	0.001	0.001	0.251	0.001	0.050	0.251

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant4	MAX
Front	0.394	0.444	0.444
Back	0.442	0.541	0.541
Left Side	0.191	0.154	0.191
Right Side	0.643	0.122	0.643
Top Side	0.001	0.001	0.001
Bottom Side	0.329	0.901	0.901

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

NO	1	2	3	4	5				
Test Position	WLAN2.4GHz Ant 5 WWAN+DBS&non DBS	WLAN2.4GHz Ant 11+5 WWAN+DBS&non DBS	WLAN5GHz Ant 6+13 WWAN+DBS&non DBS	Bluetooth Ant 11 MIMO WWAN+DBS&non DBS	Bluetooth Ant 5 MIMO WWAN+DBS&non DBS	3+4+5	1+3+4	2+3	WLAN+BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.067	0.170	0.064	0.002	0.002	0.068	0.133	0.234	0.234
Back	0.083	0.185	0.073	0.002	0.002	0.077	0.158	0.258	0.258
Left Side	0.001	0.001	0.019	0.002	0.002	0.023	0.022	0.020	0.023
Right Side	0.119	0.228	0.123	0.002	0.048	0.173	0.244	0.351	0.351
Top Side	0.011	0.216	0.153	0.039	0.002	0.194	0.203	0.369	0.369
Bottom Side						0.000	0.000	0.000	0.000

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

Test Position	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.663	0.444	0.234	1.34
Back	0.745	0.541	0.258	1.54
Left Side	0.869	0.191	0.023	1.08
Right Side	0.891	0.643	0.351	1.89
Top Side	0.626	0.001	0.369	1.00
Bottom Side	0.251	0.901	0.000	1.15

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

Right Side					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.643	0.088	0.351	1.08	-
Ant0-Ant2	0.643	0.001	0.351	1.00	-
Ant0-Ant3	0.643	0.001	0.351	1.00	-
Ant0-Ant5	0.643	0.891	0.351	1.89	Case 1
Ant0-Ant6	0.643	0.162	0.351	1.16	-
Ant0-Ant7	0.643	0.066	0.351	1.06	-
Ant0-Ant8	0.643	0.414	0.351	1.41	-
Ant0-Ant9	0.643	0.068	0.351	1.06	-
Ant4-Ant1	0.122	0.088	0.351	0.56	-
Ant4-Ant2	0.122	0.001	0.351	0.47	-
Ant4-Ant3	0.122	0.001	0.351	0.47	-
Ant4-Ant5	0.122	0.891	0.351	1.36	-
Ant4-Ant6	0.122	0.162	0.351	0.64	-
Ant4-Ant7	0.122	0.066	0.351	0.54	-
Ant4-Ant8	0.122	0.414	0.351	0.89	-
Ant4-Ant9	0.122	0.068	0.351	0.54	-

<Simultaneous Transmission analysis of WLAN+BT and WWAN cell-off >:

NO	1	2	3	4	5			
Test Position	WLAN2.4GHz Ant 5 DBS&non DBS	WLAN2.4GHz Ant 11+5 DBS&non DBS	WLAN5GHz Ant 6+13 DBS&non DBS	Bluetooth Ant 11 MIMO DBS&non DBS	Bluetooth Ant 5 MIMO DBS&non DBS	3+4+5	1+3+4	2+3
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.222	0.589	0.189	0.100	0.108	0.40	0.51	0.78
Back	0.279	0.638	0.216	0.168	0.136	0.52	0.66	0.85
Left Side	0.001	0.002	0.057	0.001	0.002	0.06	0.06	0.06
Right Side	0.396	0.786	0.360	0.001	0.268	0.63	0.76	1.15
Top Side	0.036	0.745	0.451	0.238	0.002	0.69	0.73	1.20

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	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	MAX
Front	1.031	0.918	1.011	0.964	0.915	0.844	0.690	0.976	1.031
Back	1.089	1.085	1.086	1.088	0.970	1.032	0.977	0.855	1.089

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant4	MAX
Front	0.681	0.870	0.870
Back	0.904	1.085	1.085

<WLAN2.4GHz/5GHz/6GHz +BT Worse-case SAR>:

NO	1	2	3	4	5				
Test Position	WLAN2.4GHz Ant 5 WWAN+DBS&non DBS	WLAN2.4GHz Ant 11+5 WWAN+DBS&non DBS	WLAN5GHz& WLAN6GHz Ant 6+13 WWAN+DBS&non DBS	Bluetooth Ant 11 MIMO WWAN+DBS&non DBS	Bluetooth Ant 5 MIMO WWAN+DBS&non DBS	3+4+5	1+3+4	2+3	WLAN+BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.138	0.206	0.119	0.002	0.072	0.193	0.259	0.325	0.325
Back	0.153	0.242	0.158	0.078	0.089	0.325	0.389	0.400	0.400

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

Test Position	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	1.031	0.870	0.325	2.23
Back	1.089	1.085	0.400	2.57

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

Front					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.681	1.031	0.325	2.04	Case 1
Ant0-Ant2	0.681	0.918	0.325	1.92	Case 2
Ant0-Ant3	0.681	1.011	0.325	2.02	Case 3
Ant0-Ant5	0.681	0.964	0.325	1.97	Case 4
Ant0-Ant6	0.681	0.915	0.325	1.92	Case 5
Ant0-Ant7	0.681	0.844	0.325	1.85	Case 6
Ant0-Ant8	0.681	0.690	0.325	1.70	Case 7
Ant0-Ant9	0.681	0.976	0.325	1.98	Case 8
Ant4-Ant1	0.870	1.031	0.325	2.23	Case 9
Ant4-Ant2	0.870	0.918	0.325	2.11	Case 10
Ant4-Ant3	0.870	1.011	0.325	2.21	Case 11
Ant4-Ant5	0.870	0.964	0.325	2.16	Case 12
Ant4-Ant6	0.870	0.915	0.325	2.11	Case 13
Ant4-Ant7	0.870	0.844	0.325	2.04	Case 14
Ant4-Ant8	0.870	0.690	0.325	1.89	Case 15
Ant4-Ant9	0.870	0.976	0.325	2.17	Case 16

Back					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.904	1.089	0.400	2.39	Case 17
Ant0-Ant2	0.904	1.085	0.400	2.39	Case 18
Ant0-Ant3	0.904	1.086	0.400	2.39	Case 19
Ant0-Ant5	0.904	1.088	0.400	2.39	Case 20
Ant0-Ant6	0.904	0.970	0.400	2.27	Case 21
Ant0-Ant7	0.904	1.032	0.400	2.34	Case 22
Ant0-Ant8	0.904	0.977	0.400	2.28	Case 23
Ant0-Ant9	0.904	0.855	0.400	2.16	Case 24
Ant4-Ant1	1.085	1.089	0.400	2.57	Case 25
Ant4-Ant2	1.085	1.085	0.400	2.57	Case 26
Ant4-Ant3	1.085	1.086	0.400	2.57	Case 27
Ant4-Ant5	1.085	1.088	0.400	2.57	Case 28
Ant4-Ant6	1.085	0.970	0.400	2.46	Case 29
Ant4-Ant7	1.085	1.032	0.400	2.52	Case 30
Ant4-Ant8	1.085	0.977	0.400	2.46	Case 31
Ant4-Ant9	1.085	0.855	0.400	2.34	Case 32

<Simultaneous Transmission analysis of WLAN+BT and WWAN cell-off >:

NO	1	2	3	4	5	3+4+5	1+3+4	2+3
Test Position	WLAN2.4GHz Ant 5 DBS&non DBS	WLAN2.4GHz Ant 11+5 DBS&non DBS	WLAN5GHz& WLAN6GHz Ant 6+13 DBS&non DBS	Bluetooth Ant 11 MIMO DBS&non DBS	Bluetooth Ant 5 MIMO DBS&non DBS			
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.467	0.708	0.401	0.263	0.339	1.00	1.13	1.11
Back	0.518	0.855	0.527	0.431	0.393	1.35	1.48	1.38

17.5 Product specific 10g SAR Exposure Conditions

Remark:

- For WWAN bands/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	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	MAX
Front									0.000
Back	1.578								1.578
Left Side	1.612								1.612
Right Side									0.000
Top Side									0.000
Bottom Side									0.000

<WLAN2.4GHz/5GHz/6GHz +BT Worse-case SAR>:

NO	1	2	3	4	5				
Test Position	WLAN2.4GHz Ant 5 WWAN+DBS&non DBS	WLAN2.4GHz Ant 11+5 WWAN+DBS&non DBS	WLAN5GHz& WLAN6GHz Ant 6+13 WWAN+DBS&non DBS	Bluetooth Ant 11 MIMO WWAN+DBS&non DBS	Bluetooth Ant 5 MIMO WWAN+DBS&non DBS	3+4+5	1+3+4	2+3	WLAN+BT worse case
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)
Front			1.303			1.303	1.303	1.303	1.303
Back			0.506			0.506	0.506	0.506	0.506
Left Side			0.115			0.115	0.115	0.115	0.115
Right Side			1.338			1.338	1.338	1.338	1.338
Top Side			2.298			2.298	2.298	2.298	2.298
Bottom Side						0.000	0.000	0.000	0.000

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

Test Position	AG0	AG1	WLAN/BT worst case	NFC	AG1+AG0+WLAN +BT worse case+NFC
	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)
Front	0.000	0.000	1.303	0.001	1.30
Back	1.578	0.000	0.506	0.036	2.12
Left Side	1.612	0.000	0.115	0.001	1.73
Right Side	0.000	0.000	1.338	0.001	1.34
Top Side	0.000	0.000	2.298	0.001	2.30
Bottom Side	0.000	0.000	0.000	0.001	0.00

17.6 Total Exposure Ratio

<Total exposure ratio>

Max 1g SAR	WPT SAR	TER
(W/Kg)	(W/Kg)	Reported SAR/1.6 + WPT SAR /1.6 Summation
1.58	0.000000307	0.989

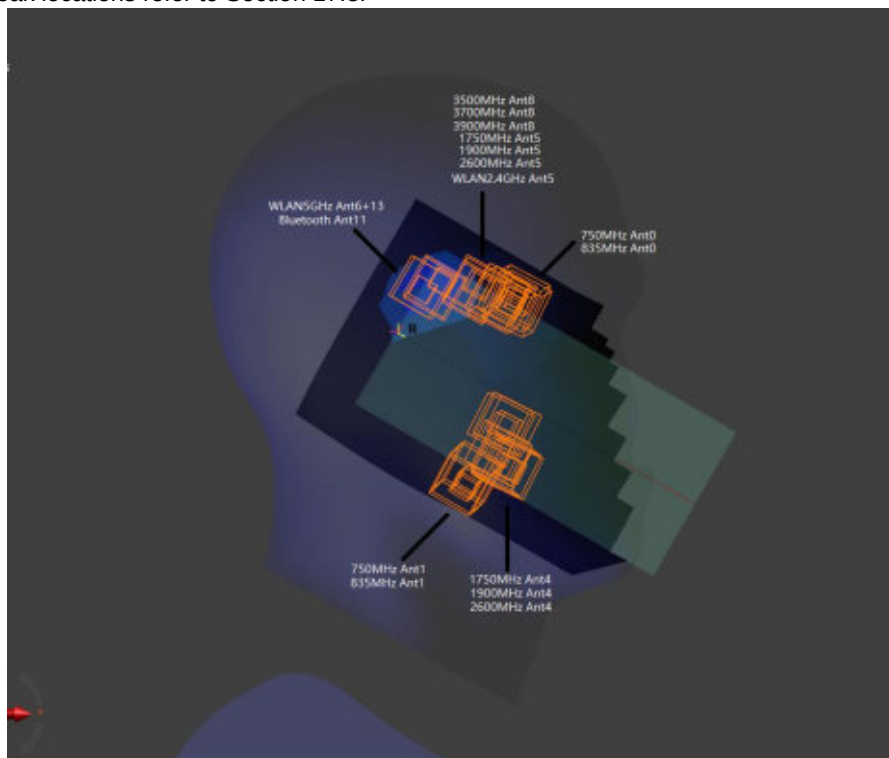
Max 10g SAR	WPT SAR	TER
(W/Kg)	(W/Kg)	Reported SAR/4.0 + WPT SAR /4.0 Summation
2.30	0.000000190	0.575

Remark: WPT SAR value is from another WPT SAR report which is submitted separately.

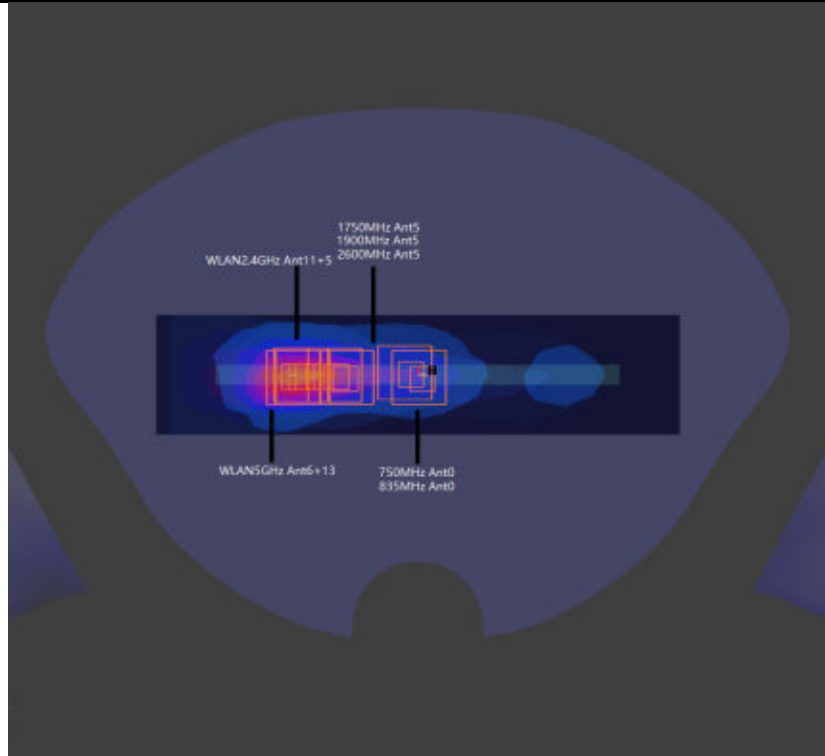
17.7 SPLSR Evaluation and Analysis

General Note:

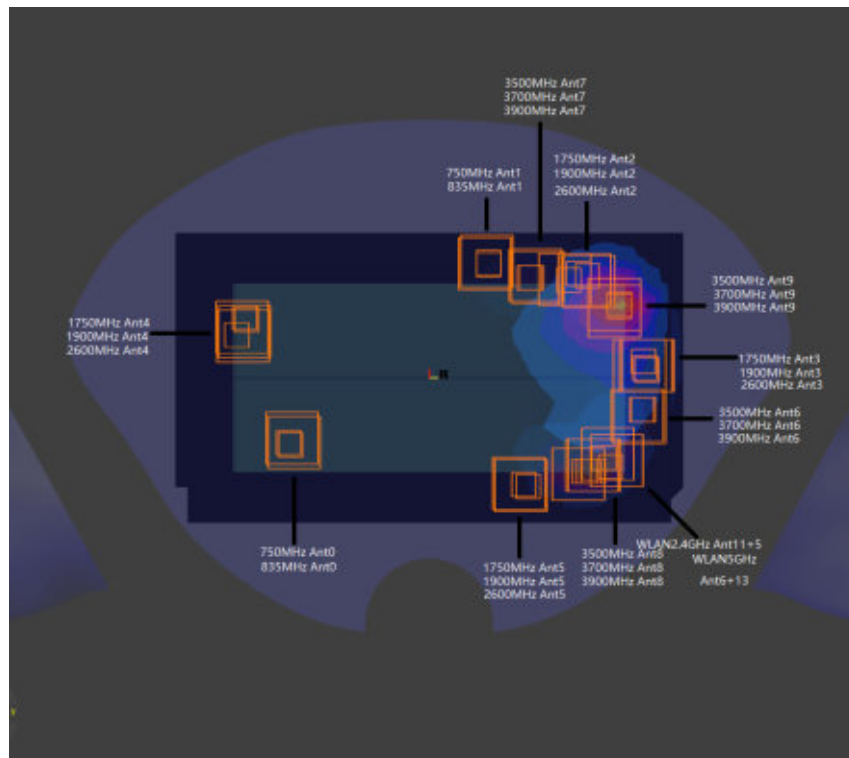
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR_1 + SAR_2) \cdot 1.5 / (\text{min. separation distance, mm})$. 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, AG0 was summed algebraically with the WLAN /BT Antenna 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 17.8.



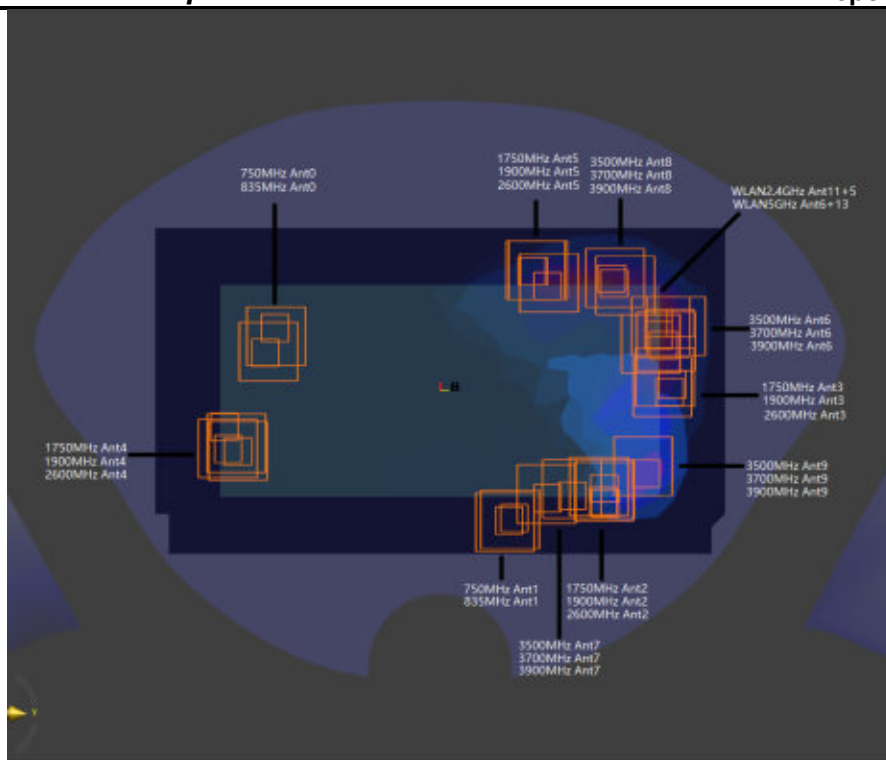
Head WWAN+WLAN2.4G+WLAN5G+BT Left Cheek 0mm



Hotspot WWAN+WLAN2.4G+WLAN5G Right Side 10mm



Body-worn WWAN+WLAN2.4G+WLAN5G Front 5mm



Body-worn WWAN+WLAN2.4G+WLAN5G Back 5mm

<Head>

No.1	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				
Ant0	Left Cheek	0.311	1.475	0mm	55.2	225.8	-172.1	73.8	1.79	0.03	Not required
Ant1		1.086		0mm	38.6	297.6	-168.1				
WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant0	Left Cheek	0.311	1.475	0mm	55.2	225.8	-172.1	101.0	1.79	0.02	Not required
Ant1		1.086		0mm							
WLAN2.4GHz Ant 5		0.155		0mm	59.6	326.7	-169.5				
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant0	Left Cheek	0.311	1.475	0mm	55.2	225.8	-172.1	110.2	1.79	0.02	Not required
Ant1		1.086		0mm							
WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm	16.9	329.1	-171.2				
Bluetooth Ant 11		0.090		0mm							
Ant0	Left Cheek	0.311	1.475	0mm	55.2	225.8	-172.1	114.2	1.79	0.02	Not required
Ant1		1.086		0mm							
WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm	25.5	336.1	-171.2				
No.2	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				
Ant0	Left Cheek	0.311	1.475	0mm	55.2	225.8	-172.1	100.6	1.79	0.02	Not required
Ant5		1.086		0mm	61	326.2	-169.1				



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WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant0		0.311	0.311	0mm	55.2	225.8	-172.1				
Ant5		1.086		0mm							
WLAN2.4GHz Ant 5	Left Cheek	0.155	1.475	0mm	59.6	326.7	-169.5	101.0	1.79	0.02	Not required
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant0		0.311	0.311	0mm	55.2	225.8	-172.1				
Ant5		1.086		0mm							
WLAN2.4GHz Ant 5	Left Cheek	0.155	1.475	0mm				110.2	1.79	0.02	Not required
WLAN5GHz Ant 6+13		0.144		0mm	16.9	329.1	-171.2				
Bluetooth Ant 11		0.090		0mm							
Ant0		0.311	0.311	0mm	55.2	225.8	-172.1				
Ant5		1.086		0mm							
WLAN2.4GHz Ant 5	Left Cheek	0.155	1.475	0mm				114.2	1.79	0.02	Not required
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm	25.5	336.1	-171.2				
No.3	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				
Ant0		0.311	0.311	0mm	55.2	225.8	-172.1				
Ant8		1.049		0mm	43.4	331.6	-171.3				
WLAN2.4GHz Ant 5	Left Cheek	0.155	1.438	0mm				106.5	1.75	0.02	Not required
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant0		0.311	0.311	0mm	55.2	225.8	-172.1				
Ant8		1.049		0mm							
WLAN2.4GHz Ant 5	Left Cheek	0.155	1.438	0mm	59.6	326.7	-169.5	101.0	1.75	0.02	Not required
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant0		0.311	0.311	0mm	55.2	225.8	-172.1				
Ant8		1.049		0mm							
WLAN2.4GHz Ant 5	Left Cheek	0.155	1.438	0mm				110.2	1.75	0.02	Not required
WLAN5GHz Ant 6+13		0.144		0mm	16.9	329.1	-171.2				
Bluetooth Ant 11		0.090		0mm							
Ant0		0.311	0.311	0mm	55.2	225.8	-172.1				
Ant8		1.049		0mm							
WLAN2.4GHz Ant 5	Left Cheek	0.155	1.438	0mm				114.2	1.75	0.02	Not required
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm	25.5	336.1	-171.2				
No.4	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				
Ant4		0.336	0.336	0mm	57.7	226.3	-170				
Ant1		1.086		0mm	38.6	297.6	-168.1				
WLAN2.4GHz Ant 5	Left Cheek	0.155	1.475	0mm				73.8	1.81	0.03	Not required
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant4		0.336	0.336	0mm	57.7	226.3	-170				
Ant1		1.086		0mm							
WLAN2.4GHz Ant 5	Left Cheek	0.155	1.475	0mm	59.6	326.7	-169.5	100.4	1.81	0.02	Not required



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WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant4	Left Cheek	0.336	0.336	0mm	57.7	226.3	-170	110.6	1.81	0.02	Not required
Ant1		1.086	1.475	0mm							
WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm	16.9	329.1	-171.2				
Bluetooth Ant 11		0.090		0mm							
Ant4		0.336	0.336	0mm	57.7	226.3	-170				
Ant1	Left Cheek	1.086	1.475	0mm				114.4	1.81	0.02	Not required
WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm	25.5	336.1	-171.2				
Ant4		0.336	0.336	0mm	57.7	226.3	-170				
No.5	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				
Ant4	Left Cheek	0.336	0.336	0mm	57.7	226.3	-170	100.0	1.81	0.02	Not required
Ant5		1.086	1.475	0mm	61	326.2	-169.1				
WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant4	Left Cheek	0.336	0.336	0mm	57.7	226.3	-170	100.4	1.81	0.02	Not required
Ant5		1.086	1.475	0mm							
WLAN2.4GHz Ant 5		0.155		0mm	59.6	326.7	-169.5				
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant4	Left Cheek	0.336	0.336	0mm	57.7	226.3	-170	110.6	1.81	0.02	Not required
Ant5		1.086	1.475	0mm							
WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm	16.9	329.1	-171.2				
Bluetooth Ant 11		0.090		0mm							
Ant4	Left Cheek	0.336	0.336	0mm	57.7	226.3	-170	114.4	1.81	0.02	Not required
Ant5		1.086	1.475	0mm							
WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm	25.5	336.1	-171.2				
No.6	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				
Ant4	Left Cheek	0.336	0.336	0mm	57.7	226.3	-170	106.3	1.77	0.02	Not required
Ant8		1.049	1.438	0mm	43.4	331.6	-171.3				
WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant4	Left Cheek	0.336	0.336	0mm	57.7	226.3	-170	100.4	1.77	0.02	Not required
Ant8		1.049	1.438	0mm							
WLAN2.4GHz Ant 5		0.155		0mm	59.6	326.7	-169.5				
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm							
Ant4	Left Cheek	0.336	0.336	0mm	57.7	226.3	-170	110.6	1.77	0.02	Not required
Ant8		1.049	1.438	0mm							
WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm	16.9	329.1	-171.2				



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Bluetooth Ant 11		0.090		0mm							
Ant4	Left Cheek	0.336	0.336	0mm	57.7	226.3	-170	114.4	1.77	0.02	Not required
Ant8		1.049	1.438	0mm							
WLAN2.4GHz Ant 5		0.155		0mm							
WLAN5GHz Ant 6+13		0.144		0mm							
Bluetooth Ant 11		0.090		0mm	25.5	336.1	-171.2				

< Hotspot >

No.1	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				
Ant0	Right Side	0.643	0.643	10mm	-25	47	-204	87.0	1.89	0.03	Not required
Ant5		0.891	1.242	10mm	-23.4	-40	-204				
WLAN2.4GHz Ant 11+5		0.228		10mm							
WLAN5GHz Ant 6+13		0.123		10mm							
Ant0	Right Side	0.643	0.643	10mm	-25	47	-204	96.0	1.89	0.03	Not required
Ant5		0.891	1.242	10mm							
WLAN2.4GHz Ant 11+5		0.228		10mm	-24.2	-49	-204				
WLAN5GHz Ant 6+13		0.123		10mm							
Ant0	Right Side	0.643	0.643	10mm	-25	47	-204	90.0	1.89	0.03	Not required
Ant5		0.891	1.242	10mm							
WLAN2.4GHz Ant 11+5		0.228		10mm							
WLAN5GHz Ant 6+13		0.123		10mm	-24.2	-43	-204				

< Body worn >

No.1	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				
Ant0	Front	0.681	0.681	5mm	2	-57	-204	111.8	2.04	0.03	Not required
Ant1		1.031	1.356	5mm	-70	28.5	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	2	-57	-204	129.2	2.04	0.02	Not required
Ant1		1.031	1.356	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	2	-57	-204	128.6	2.04	0.02	Not required
Ant1		1.031	1.356	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.2	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				
Ant0	Front	0.681	0.681	5mm	2	-57	-204	133.8	1.92	0.02	Not required
Ant2		0.918	1.243	5mm	-64.6	59	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	2	-57	-204	129.2	1.92	0.02	Not required
Ant2		0.918	1.243	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	2	-57	-204	128.6	1.92	0.02	Not required
Ant2		0.918	1.243	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				



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No.3	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				
Ant0	Front	0.681	0.681	5mm	2	-57	-204	148.3	2.02	0.02	Not required
Ant3		1.011		5mm	-26.5	88.5	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	2	-57	-204	129.2	2.02	0.02	Not required
Ant3		1.011		5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	2	-57	-204	128.6	2.02	0.02	Not required
Ant3		1.011		5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.4	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				
Ant0	Front	0.681	0.681	5mm	3.3	-56.8	-204	101.4	1.97	0.03	Not required
Ant5		0.964		5mm	18.5	43.5	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	3.3	-56.8	-204	128.9	1.97	0.02	Not required
Ant5		0.964		5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	3.3	-56.8	-204	128.2	1.97	0.02	Not required
Ant5		0.964		5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.5	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				
Ant0	Front	0.681	0.681	5mm	3.3	-56.8	-204	145.7	1.92	0.02	Not required
Ant6		0.915		5mm	-13	88	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	3.3	-56.8	-204	128.9	1.92	0.02	Not required
Ant6		0.915		5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	3.3	-56.8	-204	128.2	1.92	0.02	Not required
Ant6		0.915		5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.6	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				
Ant0	Front	0.681	0.681	5mm	2	-57	-204	119.3	1.85	0.02	Not required
Ant7		0.844		5mm	-66	41	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	2	-57	-204	129.2	1.85	0.02	Not required
Ant7		0.844		5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							



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Ant0	Front	0.681	0.681	5mm	2	-57	-204	128.6	1.85	0.02	Not required
Ant7		0.844	1.169	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.7	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				
Ant0	Front	0.681	0.681	5mm	3.3	-56.8	-204	118.4	1.70	0.02	Not required
Ant8		0.690	1.015	5mm	15	61	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	3.3	-56.8	-204	128.9	1.70	0.02	Not required
Ant8		0.690	1.015	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	3.3	-56.8	-204	128.2	1.70	0.02	Not required
Ant8		0.690	1.015	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.8	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				
Ant0	Front	0.681	0.681	5mm	2	-57	-204	147.1	1.98	0.02	Not required
Ant9		0.976	1.301	5mm	-54	79	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	2	-57	-204	129.2	1.98	0.02	Not required
Ant9		0.976	1.301	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant0	Front	0.681	0.681	5mm	2	-57	-204	128.6	1.98	0.02	Not required
Ant9		0.976	1.301	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.9	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				
Ant4	Front	0.870	0.870	5mm	-52.8	-74.9	-204	104.7	2.23	0.03	Not required
Ant1		1.031	1.356	5mm	-71.1	28.2	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-52.8	-74.9	-204	159.2	2.23	0.02	Not required
Ant1		1.031	1.356	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-52.8	-74.9	-204	160.5	2.23	0.02	Not required
Ant1		1.031	1.356	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.10	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				
Ant4	Front	0.870	0.870	5mm	-52.8	-74.9	-204	134.4	2.11	0.02	Not required
Ant2		0.918	1.243	5mm	-64.6	59	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							



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Ant4	Front	0.870	0.870	5mm	-52.8	-74.9	-204	159.2	2.11	0.02	Not required
Ant2		0.918	1.243	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-52.8	-74.9	-204	160.5	2.11	0.02	Not required
Ant2		0.918	1.243	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.11	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				
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	163.8	2.21	0.02	Not required
Ant3		1.011	1.336	5mm	-34.6	89	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	156.5	2.21	0.02	Not required
Ant3		1.011	1.336	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	157.5	2.21	0.02	Not required
Ant3		1.011	1.336	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.12	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				
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	134.7	2.16	0.02	Not required
Ant5		0.964	1.289	5mm	18.5	43.5	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	156.5	2.16	0.02	Not required
Ant5		0.964	1.289	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	157.5	2.16	0.02	Not required
Ant5		0.964	1.289	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.13	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				
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	165.6	2.11	0.02	Not required
Ant6		0.915	1.240	5mm	-14	88	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	156.5	2.11	0.02	Not required
Ant6		0.915	1.240	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	157.5	2.11	0.02	Not required
Ant6		0.915	1.240	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.14	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				



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Ant4	Front	0.870	0.870	5mm	-52.8	-74.9	-204	116.6	2.04	0.03	Not required
Ant7		0.844	1.169	5mm	-66	41	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-52.8	-74.9	-204	159.2	2.04	0.02	Not required
Ant7		0.844	1.169	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-52.8	-74.9	-204	160.5	2.04	0.02	Not required
Ant7		0.844	1.169	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.15	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				
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	148.8	1.89	0.02	Not required
Ant8		0.690	1.015	5mm	15	61	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	156.5	1.89	0.02	Not required
Ant8		0.690	1.015	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	157.5	1.89	0.02	Not required
Ant8		0.690	1.015	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				
No.16	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				
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	153.6	2.17	0.02	Not required
Ant9		0.976	1.301	5mm	-55	79	-204				
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	156.5	2.17	0.02	Not required
Ant9		0.976	1.301	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm	8.6	72	-204				
WLAN5GHz Ant 6+13		0.119		5mm							
Ant4	Front	0.870	0.870	5mm	-46.6	-74.4	-204	157.5	2.17	0.02	Not required
Ant9		0.976	1.301	5mm							
WLAN2.4GHz Ant 11+5		0.206		5mm							
WLAN5GHz Ant 6+13		0.119		5mm	14	71	-204				

No.17	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				
Ant0	Back	0.904	0.904	5mm	-35	-65	-204	109.2	2.39	0.03	Not required
Ant1		1.089	1.489	5mm	21.5	28.5	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-35	-65	-204	145.6	2.39	0.03	Not required
Ant1		1.089	1.489	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							



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Ant0	Back	0.904	0.904	5mm	-35	-65	-204	146.2	2.39	0.03	Not required
Ant1		1.089	1.489	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.18	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				
Ant0	Back	0.904	0.904	5mm	-35	-65	-204	133.2	2.39	0.03	Not required
Ant2		1.085	1.485	5mm	11	60	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-35	-65	-204	145.6	2.39	0.03	Not required
Ant2		1.085	1.485	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-35	-65	-204	146.2	2.39	0.03	Not required
Ant2		1.085	1.485	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.19	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				
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	146.4	2.39	0.03	Not required
Ant3		1.086	1.486	5mm	-25.8	85.2	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	139.0	2.39	0.03	Not required
Ant3		1.086	1.486	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	139.0	2.39	0.03	Not required
Ant3		1.086	1.486	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.20	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				
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	121.8	2.39	0.03	Not required
Ant5		1.088	1.488	5mm	-68.5	61.5	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	139.0	2.39	0.03	Not required
Ant5		1.088	1.488	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	139.0	2.39	0.03	Not required
Ant5		1.088	1.488	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.21	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				



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Ant0	Back	0.904	0.904	5mm	-51	-59	-204	139.0	2.27	0.02	Not required
Ant6		0.970	1.370	5mm	-54	80	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	139.0	2.27	0.02	Not required
Ant6		0.970	1.370	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	139.0	2.27	0.02	Not required
Ant6		0.970	1.370	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.22	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				
Ant0	Back	0.904	0.904	5mm	-35	-65	-204	115.9	2.34	0.03	Not required
Ant7		1.032	1.432	5mm	14	40	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-35	-65	-204	145.6	2.34	0.02	Not required
Ant7		1.032	1.432	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-35	-65	-204	146.2	2.34	0.02	Not required
Ant7		1.032	1.432	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.23	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				
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	119.8	2.28	0.03	Not required
Ant8		0.977	1.377	5mm	-65	60	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	139.0	2.28	0.02	Not required
Ant8		0.977	1.377	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	139.0	2.28	0.02	Not required
Ant8		0.977	1.377	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.24	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				
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	147.6	2.16	0.02	Not required
Ant9		0.855	1.255	5mm	4	78	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0	Back	0.904	0.904	5mm	-51	-59	-204	139.0	2.16	0.02	Not required
Ant9		0.855	1.255	5mm							



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WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							
Ant0		0.904	0.904	5mm	-51	-59	-204				
Ant9		0.855		5mm							
WLAN2.4GHz Ant 11+5	Back	0.242	1.255	5mm				139.0	2.16	0.02	Not required
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.25	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				
Ant4		1.085	1.085	5mm	-8.9	-74	-204				
Ant1		1.089		5mm	21.5	28.5	-204				
WLAN2.4GHz Ant 11+5	Back	0.242	1.489	5mm				106.9	2.57	0.04	Not required
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4		1.085	1.085	5mm	-8.9	-74	-204				
Ant1		1.089		5mm							
WLAN2.4GHz Ant 11+5	Back	0.242	1.489	5mm	-47.8	80	-204	158.8	2.57	0.03	Not required
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4		1.085	1.085	5mm	-8.9	-74	-204				
Ant1		1.089		5mm							
WLAN2.4GHz Ant 11+5	Back	0.242	1.489	5mm				160.5	2.57	0.03	Not required
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.26	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				
Ant4		1.085	1.085	5mm	-8.9	-74	-204				
Ant2		1.085		5mm	11	59	-204				
WLAN2.4GHz Ant 11+5	Back	0.242	1.485	5mm				134.5	2.57	0.03	Not required
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4		1.085	1.085	5mm	-8.9	-74	-204				
Ant2		1.085		5mm							
WLAN2.4GHz Ant 11+5	Back	0.242	1.485	5mm	-47.8	80	-204	158.8	2.57	0.03	Not required
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4		1.085	1.085	5mm	-8.9	-74	-204				
Ant2		1.085		5mm							
WLAN2.4GHz Ant 11+5	Back	0.242	1.485	5mm				160.5	2.57	0.03	Not required
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.27	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				
Ant4		1.085	1.085	5mm	-8.9	-74	-204				
Ant3		1.086		5mm	-10.9	84	-204				
WLAN2.4GHz Ant 11+5	Back	0.242	1.486	5mm				158.0	2.57	0.03	Not required
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4		1.085	1.085	5mm	-8.9	-74	-204				
Ant3		1.086		5mm							
WLAN2.4GHz Ant 11+5	Back	0.242	1.486	5mm	-47.8	80	-204	158.8	2.57	0.03	Not required
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4		1.085	1.085	5mm	-8.9	-74	-204				
Ant3		1.086		5mm							
WLAN2.4GHz Ant 11+5	Back	0.242	1.486	5mm				160.5	2.57	0.03	Not required



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WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.28	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				
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	148.0	2.57	0.03	Not required
Ant5		1.088	1.488	5mm	-68.5	61.5	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	158.8	2.57	0.03	Not required
Ant5		1.088	1.488	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	160.5	2.57	0.03	Not required
Ant5		1.088	1.488	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.29	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				
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	159.1	2.46	0.02	Not required
Ant6		0.970	1.370	5mm	-45	81	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	158.8	2.46	0.02	Not required
Ant6		0.970	1.370	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	160.5	2.46	0.02	Not required
Ant6		0.970	1.370	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.30	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				
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	116.3	2.52	0.03	Not required
Ant7		1.032	1.432	5mm	14	40	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	158.8	2.52	0.03	Not required
Ant7		1.032	1.432	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	160.5	2.52	0.02	Not required
Ant7		1.032	1.432	5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.31	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				
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	145.3	2.46	0.03	Not required
Ant8		0.977	1.377	5mm	-65	60	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							



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WLAN6GHz Ant 6+13	Back	0.158	1.085	5mm				158.8	2.46	0.02	Not required
Ant4		1.085		5mm	-8.9	-74	-204				
Ant8		0.977		5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm	-47.8	80	-204				
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	160.5	2.46	0.02	Not required
Ant8		0.977		5mm							
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm	-54	80	-204				
No.32		Position		SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)				
					X	Y	Z				
Ant4	Back	1.085	1.085	5mm	-8.9	-74	-204	152.5	2.34	0.02	Not required
Ant9		0.855		5mm	4	78	-204				
WLAN2.4GHz Ant 11+5		0.242		5mm							
WLAN6GHz Ant 6+13		0.158		5mm							
Ant4		Back		1.085	1.085	5mm	-8.9				
Ant9	0.855		5mm								
WLAN2.4GHz Ant 11+5	0.242		5mm	-47.8		80	-204				
WLAN6GHz Ant 6+13	0.158		5mm								
Ant4	Back		1.085	1.085		5mm	-8.9	-74	-204	160.5	2.34
Ant9		0.855	5mm								
WLAN2.4GHz Ant 11+5		0.242	5mm								
WLAN6GHz Ant 6+13		0.158	5mm		-54	80	-204				



17.8 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													
Band		Ant 0			Ant 1			Ant 4			Ant 5		
GSM850	SAR (W/kg)	0.239			1.003								
	Axis	56	225.1	-172.3	39.4	299.2	-168.7						
GSM1900	SAR (W/kg)							0.024					
	Axis							59.6	224.2	-169.5			
WCDMA II	SAR (W/kg)							0.167					
	Axis							59.4	223.9	-169.5			
WCDMA IV	SAR (W/kg)							0.177					
	Axis							58.3	226.1	-170			
WCDMA V	SAR (W/kg)	0.240			0.982								
	Axis	55.2	225.8	-172.1	39.9	299.6	-168.7						
LTE Band 25(2)	SAR (W/kg)							0.135			0.631		
	Axis							57.7	226.3	-170	61	326.2	-169.1
LTE Band 7	SAR (W/kg)							0.336			0.984		
	Axis							53.5	222.5	-171.7	49.4	334.1	-171.6
LTE Band 26(5)	SAR (W/kg)	0.311			1.052								
	Axis	55	225.5	-172.3	38.6	297.6	-168.1						
LTE Band 66(4)	SAR (W/kg)							0.212			1.086		
	Axis							60.1	224.8	-169.5	58.5	327.7	-169.6
LTE Band 12(17)	SAR (W/kg)	0.189			0.787								
	Axis	58.5	224.8	-171.8	37.1	298.2	-167.8						
LTE Band 13	SAR (W/kg)	0.191			1.076								
	Axis	58	224.4	-171.8	37.3	298.5	-167.8						
LTE Band 71	SAR (W/kg)	0.078			1.086								
	Axis	58.2	224.8	-171.8	37.4	298.6	-167.8						
LTE Band 41(38)	SAR (W/kg)							0.136			1.084		
	Axis							63.2	225.3	-170.3	42.4	330.1	-171.6
LTE Band 42	SAR (W/kg)										0.915		
	Axis										43	333	-171.2
LTE Band 48	SAR (W/kg)										1.049		
	Axis										43	333	-171.2
FR1 n25(2)	SAR (W/kg)							0.106			0.466		
	Axis							57.7	226.3	-170	61	326.2	-169.1
FR1 n26(5)	SAR (W/kg)	0.296			1.009								
	Axis	55	225	-172.6	38.6	297.6	-168.1						
FR1 n7	SAR (W/kg)							0.227			1.074		
	Axis							53.5	222.5	-171.7	49.4	334.1	-171.6
FR1 n12	SAR (W/kg)	0.196			1.080								
	Axis	58.5	224.8	-171.8	37.1	298.2	-167.8						
FR1 n71	SAR (W/kg)	0.115			0.972								
	Axis	58.2	224.8	-171.8	37.4	298.6	-167.8						
FR1 n66	SAR (W/kg)							0.182			1.035		
	Axis							60.1	224.8	-169.5	58.5	327.7	-169.6
FR1 n41(38)	SAR (W/kg)							0.229			1.068		
	Axis							63.2	225.3	-170.3	42.4	330.1	-171.6
FR1 n48	SAR (W/kg)										0.861		
	Axis										43.4	331.6	-171.3
FR1 n77	SAR (W/kg)										0.986		
	Axis										43.4	331.6	-171.3

WLAN2.4GHz Ant 5	SAR (W/kg)	0.155		WLAN5GHz Ant 6+13	SAR (W/kg)	0.144		Bluetooth Ant 11	SAR (W/kg)	0.09
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	Axis	59.6	326.7	-169.5			Axis	16.9	329.1	-171.2			Axis	25.5	336.1	-171.2
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WLAN6GHz Ant 6+13	SAR (W/kg)	0.095				
	Axis	17	329.5			-171.2

<Hotspot>

Right Side							
Band		Ant 0			Ant 5		
GSM850	SAR (W/kg)	0.512					
	Axis	-25	47	-204			
WCDMA V	SAR (W/kg)	0.523					
	Axis	-24	48.4	-204			
LTE Band 25(2)	SAR (W/kg)				0.540		
	Axis				-23.4	-40	-204
LTE Band 7	SAR (W/kg)				0.886		
	Axis				-24.2	-47	-204
LTE Band 26(5)	SAR (W/kg)	0.511					
	Axis	-23.4	49.5	-204			
LTE Band 66(4)	SAR (W/kg)				0.891		
	Axis				-24.2	-41.5	-204
LTE Band 12(17)	SAR (W/kg)	0.643					
	Axis	-23.4	51.5	-204			
LTE Band 13	SAR (W/kg)	0.571					
	Axis	-23.6	51	-204			
LTE Band 71	SAR (W/kg)	0.377					
	Axis	-23.8	51.5	-204			
LTE Band 41(38)	SAR (W/kg)				0.638		
	Axis				-24.2	-46	-204
FR1 n25(2)	SAR (W/kg)				0.335		
	Axis				-23.4	-40	-204
FR1 n26(5)	SAR (W/kg)	0.533					
	Axis	-23.4	49.5	-204			
FR1 n7	SAR (W/kg)				0.580		
	Axis				-24.2	-47	-204
FR1 n12	SAR (W/kg)	0.494					
	Axis	-23.4	51.5	-204			
FR1 n71	SAR (W/kg)	0.503					
	Axis	-23.8	51.5	-204			
FR1 n66	SAR (W/kg)				0.517		
	Axis				-24.2	-41.5	-204
FR1 n41(38)	SAR (W/kg)				0.537		
	Axis				-24.2	-46	-204

WLAN2.4GHz Ant 11+5	SAR (W/kg)	0.228			WLAN5GHz Ant 6+13	SAR (W/kg)	0.123		
	Axis	-24.2	-49	-204		Axis	-24.2	-43	-204

<Body worn>

		Front											
Band		Ant 0			Ant 1			Ant 2			Ant 3		
GSM850	SAR (W/kg)	0.598			0.834								
	Axis	3.3	-57.1	-204	-70.2	28.8	-204						
GSM1900	SAR (W/kg)				0.703			0.600					
	Axis				-67.2	61.9	-204				-52.3	-75.1	-204
WCDMA II	SAR (W/kg)				0.757			0.793					
	Axis				-67.6	61.5	-204				-52.8	-74.9	-204
WCDMA IV	SAR (W/kg)				0.855			0.870					
	Axis				-65.7	59.2	-204				-46.6	-74.4	-204
WCDMA V	SAR (W/kg)	0.563			1.031								
	Axis	3.6	-57.6	-204	-70.6	28.4	-204						
LTE Band	SAR (W/kg)				0.719			0.782			0.766		

[illegible]

WLAN6GHz Ant 6+13	SAR (W/kg)	0.081		
	Axis	14.2	71.5	-204

Back																															
Band		Ant 0			Ant 1			Ant 2			Ant 3			Ant 4			Ant 5			Ant 6			Ant 7			Ant 8			Ant 9		
GSM850	SAR (W/kg)	0.673			1.012																										
	Axis	-37	-66	-204	19	31	-204																								
GSM1900	SAR (W/kg)							0.996						0.849																	
	Axis							17	59	-204				-8.9	-74	-204															
WCDMA II	SAR (W/kg)							1.055						1.076																	
	Axis							17	60	-204				-8	-75	-204															
WCDMA IV	SAR (W/kg)							1.071						1.065																	

[illegible]

WLAN6GHz Ant 6+13	SAR (W/kg)	0.148		
	Axis	-55	80.2	-204

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.

Declaration of Conformity:

The test results with all measurement uncertainty excluded is 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.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Uncertainty Budget According to IEC/IEEE 62209-1528 (Frequency band: 4 MHz - 10 GHz range)							
Error Description	Uncert. Value (±%)	Prob. Dist.	Div.	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System errors							
Probe calibration	18.6	N	2	1	1	9.3	9.3
Probe calibration drift	1.7	R	1.732	1	1	1.0	1.0
Probe linearity and detection Limit	4.7	R	1.732	1	1	2.7	2.7
Broadband signal	2.8	R	1.732	1	1	1.6	1.6
Probe isotropy	7.6	R	1.732	1	1	4.4	4.4
Other probe and data acquisition errors	2.4	N	1	1	1	2.4	2.4
RF ambient and noise	1.8	N	1	1	1	1.8	1.8
Probe positioning errors	0.006	N	1	0.5	0.5	0.0	0.0
Data processing errors	4.0	N	1	1	1	4.0	4.0
Phantom and Device Errors							
Measurement of phantom conductivity (σ)	2.5	N	1	0.78	0.71	2.0	1.8
Temperature effects (medium)	5.4	R	1.732	0.78	0.71	2.4	2.2
Shell permittivity	14.0	R	1.732	0.5	0.5	4.0	4.0
Distance between the radiating element of the DUT and the phantom medium	2.0	N	1	2	2	4.0	4.0
Repeatability of positioning the DUT or source against the phantom	1.0	N	1	1	1	1.0	1.0
Device holder effects	3.6	N	1	1	1	3.6	3.6
Effect of operating mode on probe sensitivity	2.4	R	1.732	1	1	1.4	1.4
Time-average SAR	1.7	R	1.732	1	1	1.0	1.0
Variation in SAR due to drift in output of DUT	2.5	N	1	1	1	2.5	2.5
Validation antenna uncertainty (validation measurement only)	0.0	N	1	1	1	0.0	0.0
Uncertainty in accepted power (validation measurement only)	0.0	N	1	1	1	0.0	0.0
Correction to the SAR results							
Phantom deviation from target (ϵ' , σ)	1.9	N	1	1	0.84	1.9	1.6
SAR scaling	0.0	R	1.732	1	1	0.0	0.0
Combined Std. Uncertainty						14.5%	14.4%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.8%

SAR Uncertainty Budget for frequency range 4MHz to 10GHz

cDASY6 Module mmWave Uncertainty Budget Evaluation Distances to the Antennas > $\lambda/2\pi$ In Compliance with IEC TR 63170					
Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Uncertainty terms dependent on the measurement system					
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependence	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dependent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					1.34
Expanded STD Uncertainty (95%)					2.68

PD Uncertainty Budget

19. References

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- [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
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- [14] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [15] IEC/IEEE 62209-1528:2020, "Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)", Oct. 2020
- [16] IEC 62479:2010 Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
- [17] IEC TR 63170: 2018 Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz
- [18] SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz)

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

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