

FCC SAR Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : POCO
MODEL NAME : 2412DPC0AG
FCC ID : 2AFZZPC0AG
STANDARD : FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been in compliance with the applicable technical standards.

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



Approved by: Si Zhang

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

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA4O0803	Rev. 01	Initial issue of report.	Nov. 14, 2024

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Xiaomi Communications Co., Ltd., Mobile Phone, 2412DPC0AG**, are as follows.

Highest 1g SAR Summary							
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 15mm)	Highest Simultaneous Transmission	
			1g SAR (W/kg)			1g SAR (W/kg)	
Licensed	GSM	GSM850	1.00	0.89	0.55	1.56	
		GSM1900	1.06	0.67	0.34		
	WCDMA	WCDMA II	1.06	1.03	0.68		
		WCDMA IV	1.08	0.99	0.64		
		WCDMA V	0.86	0.96	0.54		
	LTE	LTE Band 2	1.07	1.01	0.77		
		LTE Band 4	1.05	1.00	0.92		
		LTE Band 5	1.09	0.91	0.40		
		LTE Band 7	0.96	0.64	0.74		
		LTE Band 26	0.86	0.88	0.45		
		LTE Band 66	1.03	0.95	0.45		
		LTE Band 38	1.07	0.46	0.48		
		LTE Band 41	1.07	0.70	0.49		
		LTE Band 42	1.06	0.56	0.40		
		LTE Band 48	0.98	0.84	0.77		
		5G NR	FR1 n2	0.93	0.97		0.68
			FR1 n5	0.94	0.95		0.40
	FR1 n7		1.04	0.66	0.61		
	FR1 n26		0.86	0.92	0.53		
	FR1 n66		0.96	0.74	0.66		
	FR1 n38		0.93	0.60	0.69		
	FR1 n41		1.02	0.54	0.60		
	FR1 n48		1.03	0.89	0.97		
	FR1 n77		1.07	0.67	0.69		
	FR1 n78	0.97	0.98	1.05			
DTS	WLAN	2.4GHz WLAN	1.07	1.05	0.37	1.57	
NII		5GHz WLAN	1.02	1.02	0.53	1.57	
DSS	Bluetooth	2.4GHz Bluetooth	0.49	0.31	0.15	1.56	
Highest 10g SAR Summary							
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)			Highest Simultaneous Transmission 10g SAR (W/kg)	
Licensed	GSM	GSM850	2.04			3.66	
	LTE	LTE Band 2	2.37				
	5G NR	FR1 n2	2.53				
		FR1 n66	2.53				
		FR1 n48	1.64				
DTS	WLAN	2.4GHz WLAN	1.57			3.79	
NII		5GHz WLAN	2.53			3.79	
Date of Testing:			2024/10/17~ 2024/11/6				

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

2. Administration Data

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

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.
	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

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Phone
Brand Name	POCO
Model Name	2412DPC0AG
FCC ID	2AFZZPC0AG
IMEI Code	IMEI 1: 862842070043221 IMEI 2: 862842070043239
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 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 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n66: 1710 MHz ~ 1780 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 Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac/ax VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC: ASK
HW Version	135100O10
SW Version	Xiaomi HyperOS 2.0
GSM / (E)GPRS	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously

Transfer mode	but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark:	
1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5G NR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. 2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications. 3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). 4. The 2.4GHz/5GHz WLAN can transmit in SISO/MIMO antenna mode. 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). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests. 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 power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E. 8. For WLAN/BT when transmit simultaneously with each other, or when transmit simultaneously with WWAN/BT, the device power will be reduced power at head, body-worn, hotspot and extremity conditions. 9. 5G NR n41/n77/n78 supports HPUE mode, HPUE power and SAR testing performed separately. 10. 5G NR n41/n77/n78 HPUE 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 we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR. 11. For 5G NR 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. 12. For 5G NR FDD/TDD supports SCS15KHz and SCS30KHz, after verification for 30KHz at FDD power level is less than 15KHz at FDD power level, also verification for 15KHz at TDD power level is less than 30KHz at TDD power level, so only show 15KHz at FDD power and 30KHz at TDD power and chose higher power which is SCS15KHz for FDD bands and SCS30KHz for TDD bands to perform SAR testing. 13. The device support DBS (Dual Band Simultaneous) function, when the device WLAN 2.4GHz and WLAN 5GHz transmit at the same time the device will limit different output power for simultaneous transmission compliance. 14. There are two samples. The difference between them is memory/storage capacity and & Battery: sample 1 is 8+256G memory & Battery 1(CosMX) & Plastic back cover, sample 2 is 12+512G memory & Battery 2(NVT) & PU back cover. 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. This device supports 5G NR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.	

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
SA	n2	FDD	15	5, 10, 15, 20
		FDD	30	10, 15, 20
	n5	FDD	15	5, 10, 15, 20
		FDD	30	10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
		FDD	30	10, 15, 20, 25, 30, 40, 50
	n26	FDD	15	5, 10, 15, 20
		FDD	30	10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 25, 30, 40
		FDD	30	10, 15, 20, 25, 30, 40
	n38	TDD	15	5,10,15, 20, 25, 30, 40
		TDD	30	10,15, 20, 25, 30, 40
	n41	TDD	15	10, 15, 20, 30, 40, 50
		TDD	30	10, 15, 20, 30, 40, 50, 60, 80, 90, 100
	n48	TDD	15	10, 15, 20, 40
		TDD	30	10, 15, 20, 40
	n77	TDD	15	10, 15, 20, 25, 30, 40, 50
		TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	15	10, 15, 20, 25, 30, 40, 50
		TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
NSA	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
		FDD	30	10, 15, 20, 25, 30, 40, 50
	n41	TDD	15	10, 15, 20, 30, 40, 50
		TDD	30	10, 15, 20, 30, 40, 50, 60, 80, 90, 100
	n78	TDD	15	10, 15, 20, 25, 30, 40, 50
		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	2AFZZPC0AG																																																																						
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 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																																																																						
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 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																																																																						
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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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 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 3 carriers in the downlink and 2 carriers in the uplink.																																																																						

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900

LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829	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 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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580	37850	2580	37850	2580
M	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610	38150	2610	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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506	39750	2506	39750	2506
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5	40185	2549.5	40185	2549.5
M	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5	41055	2636.5	41055	2636.5
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680	41490	2680	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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	42115	3452.5	42140	3455	42165	3457.5	42190	3460	42190	3460	42190	3460
M	42590	3500	42590	3500	42590	3500	42590	3500	42590	3500	42590	3500
H	43065	3547.5	43040	3545	43015	3542.5	42990	3540	42990	3540	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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560	55340	3560	55340	3560
LM	55810	3607	55815	3607.5	55820	3608	55830	3609	55830	3609	55830	3609
MH	56170	3643	56165	3642.5	56160	3642	56150	3641	56150	3641	56150	3641
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690	56640	3690	56640	3690

4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n66: 1710 MHz ~ 1780 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 n7	LTE B5/7
LTE Anchor Bands for n41	LTE B41
LTE Anchor Bands for n78	LTE B2/7/38/41

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band								
NR Band 2 SCS15KHz								
	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
Transmission (H, M, L) channel numbers and frequencies in each 5G NR band								
NR Band 2 SCS30KHz								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz			Freq. (MHz)
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	371000	1855	371500	1857.5	372000	1860		
M	376000	1880	376000	1880	376000	1880		
H	381000	1905	380500	1902.5	380000	1900		

NR Band 5 SCS15KHz								
	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 5 SCS30KHz								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz			Freq. (MHz)
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	165800	829	166300	831.5	166800	834		
M	167300	836.5	167300	836.5	167300	836.5		
H	168800	844	168300	841.5	167800	839		

NR Band 7 SCS15KHz																
	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 7 SCS30KHz																
	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)		
L	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		
H	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550	509000	2545		

NR Band 26 SCS15KHz								
	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 26 SCS30KHz						
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	163800	819	164300	821.5	164800	824
M	166300	831.5	166300	831.5	166300	831.5
H	168800	844	168300	841.5	167800	839

NR Band 66 SCS15KHz														
	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 66 SCS30KHz												
	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)
L	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
H	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352000	1760

NR Band 38 SCS15KHz														
	Bandwidth5MHz		Bandwidth10MHz		Bandwidth 15MHz		Bandwidth20MHz		Bandwidth25MHz		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	514500	2572.5	515004	2575.02	515502	2577.51	516000	2580	516504	2582.52	517002	2585.01	518004	2590.02
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	523500	2617.5	522996	2614.98	522498	2612.49	522000	2610	521496	2607.48	520998	2604.99	519996	2599.98

NR Band 38 SCS30KHz												
	Bandwidth10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	515004	2575.02	515502	2577.51	516000	2580	516504	2582.52	517002	2585.01	518004	2590.02
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	522996	2614.98	522498	2612.49	522000	2610	521496	2607.48	520998	2604.99	519996	2599.98

NR Band 41 SCS15KHz												
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz	
	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
M	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

NR Band 41 SCS30KHz																				
	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 SCS15KHz								
	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 48 SCS30KHz								
	Bandwidth 10MHz		Bandwidth 15MHz		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 SCS15KHz														
	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)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01
M	656000	3840	656000	3840	656000	3840	656000	3840.00	656000	3840.00	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.50	664500	3967.50	664332	3964.98	664000	3960

NR Band 77 SCS30KHz																								
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840.00	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.50	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930

NR Band 78 SCS15KHz														
	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)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01
M	650000	3750	650000	3750	650000	3750	650000	3750.00	650000	3750.00	650000	3750	650000	3750
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.5	652332	3784.98	652000	3780	651666	3774.99

NR Band 78 SCS30KHz																								
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M	650000	3750	650000	3750	650000	3750	650000	3750.00	650000	3750.00	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.5	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		

For <3450 MHz ~ 3550 MHz >

NR Band 77 SCS15KHz														
	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)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635532	3531.98	635332	3529.98

NR Band 77 SCS30KHz																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

NR Band 78 SCS15KHz														
	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)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635532	3529.98	635000	3525

NR Band 78 SCS30KHz																								
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635532	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

5. TA-SAR feature for RF Exposure compliance

WWAN bands and mmWave are all enabled with MediaTek TA-SAR feature. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time.

Note that WLAN 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 transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window, for SAR (transmit frequency $\leq 6\text{GHz}$). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

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

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

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for TA-SAR 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 operating at 6 GHz or below. It will then be used as input for TA-SAR to control and manage RF exposure for $f < 6\text{ GHz}$.

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

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

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

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

<Plimit for supported technologies and bands >

Band	Antenna	Head ECI1	Extremity ECI3	Bodyworn ECI4	Hotspot ECI5	Pmax	Total Uncertainty dB (k=2)
GSM850	Ant 0	30.1	24.0	24.0	28.4	24.0	1.00
GSM850	Ant 1	21.5	24.0	24.0	21.5	24.0	1.50
GSM1900	Ant 2	31.8	19.0	19.0	19.0	21.0	1.00
GSM1900	Ant 4	18.0	19.5	26.6	18.0	21.5	1.50
WCDMA V	Ant 0	29.9	24.0	24.0	28.8	24.0	1.00
WCDMA V	Ant 1	21.0	21.0	21.0	21.0	24.0	1.50
WCDMA IV	Ant 2	31.8	23.0	23.0	22.5	24.0	1.00
WCDMA IV	Ant 4	17.2	22.2	26.5	17.2	24.2	1.50
WCDMA II	Ant 2	31.5	21.0	21.0	20.5	24.0	1.00
WCDMA II	Ant 4	17.2	22.2	26.3	17.2	24.2	1.50
LTE Band 5	Ant 0	29.9	25.0	25.0	28.7	25.0	0.70
LTE Band 5_Other PA	Ant 0	29.9	25.0	25.0	29.3	25.0	0.70
LTE Band 5	Ant 1	22.5	21.5	21.5	21.5	25.0	0.70
LTE Band 5_Other PA	Ant 1	22.5	21.5	21.5	21.5	25.0	0.70
LTE Band 26	Ant 0	30.0	25.0	25.0	29.1	25.0	0.70
LTE Band 26	Ant 1	22.0	24.0	24.0	22.0	25.0	0.70
LTE Band 4	Ant 4	18.0	22.5	25.8	18.0	25.0	0.70
LTE Band 4	Ant 2	33.0	23.5	23.5	23.5	25.0	0.70
LTE Band 4	Ant 5	19.5	22.0	22.0	19.5	23.0	1.50
LTE Band 66	Ant 4	20.5	23.0	29.2	20.5	25.0	0.70
LTE Band 66	Ant 2	32.4	23.0	23.0	22.5	25.0	0.70
LTE Band 66	Ant 5	19.0	22.0	22.0	19.0	23.0	1.50
LTE Band 2	Ant 4	18.0	23.0	26.0	18.0	24.5	1.00
LTE Band 2	Ant 2	30.0	20.5	20.5	20.0	24.0	1.50
LTE Band 2	Ant 3	16.5	21.0	21.0	16.5	24.0	1.50
LTE Band 2	Ant 5	18.0	22.5	22.5	18.0	22.5	1.50
LTE Band 7	Ant 4	16.5	20.0	26.7	16.5	25.0	0.70
LTE Band 7_Other PA	Ant 4	16.5	20.0	27.1	16.5	25.0	0.70
LTE Band 7	Ant 2	31.1	21.0	21.0	21.0	25.0	0.70
LTE Band 7_Other PA	Ant 2	31.3	20.5	20.5	20.5	24.5	1.00
LTE Band 7	Ant 3	18.5	19.5	19.5	18.5	24.0	1.50
LTE Band 7_Other PA	Ant 3	18.5	19.5	19.5	18.5	24.0	1.20
LTE Band 7	Ant 5	20.0	20.0	20.0	20.0	22.5	1.50
LTE Band 7_Other PA	Ant 5	19.5	19.5	19.5	19.5	22.0	1.50
LTE Band 38	Ant 4	15.0	19.5	27.0	15.0	23.0	0.70
LTE Band 38_Other PA	Ant 4	17.0	19.5	26.6	17.0	23.0	0.70
LTE Band 38	Ant 2	29.2	18.5	18.5	18.5	22.5	1.20
LTE Band 38_Other PA	Ant 2	29.2	20.5	20.5	20.5	22.5	1.00
LTE Band 38	Ant 3	17.0	17.0	17.0	17.0	22.0	1.50
LTE Band 38_Other PA	Ant 3	17.0	19.0	19.0	17.0	22.0	1.20
LTE Band 38	Ant 5	20.8	20.0	20.0	23.9	20.0	1.50
LTE Band 38_Other PA	Ant 5	20.2	20.0	20.0	24.6	20.0	1.50
LTE Band 41	Ant 4	15.0	18.5	26.6	15.0	23.0	0.70
LTE Band 41_Other PA	Ant 4	17.0	18.5	26.6	17.0	23.0	0.70
LTE Band 41	Ant 2	29.3	18.5	18.5	18.5	22.5	1.20
LTE Band 41_Other PA	Ant 2	29.4	20.5	20.5	20.5	22.5	1.00
LTE Band 41	Ant 3	17.0	18.5	18.5	17.0	22.0	1.50



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LTE Band 41_Other PA	Ant 3	17.5	19.0	19.0	17.5	22.5	1.20
LTE Band 41	Ant 5	16.5	18.5	18.5	16.5	20.0	1.50
LTE Band 41_Other PA	Ant 5	19.0	19.0	19.0	19.0	20.5	1.50
LTE Band 42	Ant 6	18.0	17.5	27.7	17.5	23.0	0.70
LTE Band 42	Ant 8	18.0	18.5	18.5	18.0	21.5	1.50
LTE Band 42	Ant 7	17.0	18.0	26.4	17.0	22.0	1.50
LTE Band 42	Ant 9	28.6	15.5	15.5	15.5	21.0	1.50
LTE Band 48	Ant 6	16.0	18.5	25.0	16.0	23.0	0.70
LTE Band 48	Ant 8	17.5	19.5	19.5	17.5	21.5	1.50
LTE Band 48	Ant 7	15.0	18.0	23.6	15.0	22.0	1.50
LTE Band 48	Ant 9	29.6	17.0	17.0	17.0	21.0	1.50
FR1 n5	Ant 0	30.1	25.0	25.0	28.9	25.0	0.70
FR1 n5	Ant 1	22.0	21.5	21.5	21.5	25.0	0.70
FR1 n26	Ant 0	30.1	25.0	25.0	29.4	25.0	0.70
FR1 n26	Ant 1	22.0	25.0	25.0	22.0	25.0	0.70
FR1 n66	Ant 4	21.0	22.5	27.2	21.0	25.0	0.70
FR1 n66	Ant 2	31.2	20.0	20.0	20.0	24.5	1.20
FR1 n66	Ant 5	19.5	22.0	22.0	19.5	23.0	1.50
FR1 n2	Ant 4	18.0	23.0	26.6	18.0	24.5	1.00
FR1 n2	Ant 2	31.1	21.5	21.5	20.5	24.5	1.20
FR1 n2	Ant 3	16.0	20.0	20.0	16.0	24.0	1.50
FR1 n2	Ant 5	18.5	20.5	20.5	18.5	22.5	1.50
FR1 n7	Ant 4	16.5	19.5	27.6	16.5	25.0	0.70
FR1 n7	Ant 2	29.7	20.5	20.5	20.5	25.0	0.70
FR1 n7	Ant 3	18.5	20.0	20.0	18.5	24.5	1.20
FR1 n7	Ant 5	18.5	20.0	20.0	18.5	22.5	1.50
FR1 n38	Ant 4	16.5	19.5	27.1	16.5	25.0	0.70
FR1 n38	Ant 2	30.5	21.5	21.5	21.5	25.0	0.70
FR1 n38	Ant 3	17.0	19.5	19.5	17.0	24.0	1.50
FR1 n38	Ant 5	19.0	21.0	21.0	19.0	22.5	1.50
FR1 n41	Ant 4	16.0	18.0	25.9	16.0	23.5	1.00
FR1 n41 HPUE	Ant 4	16.0	18.0	25.9	16.0	23.0	1.00
FR1 n41	Ant 2	29.0	20.0	20.0	20.0	23.5	1.50
FR1 n41 HPUE	Ant 2	29.0	20.0	20.0	20.0	23.0	1.50
FR1 n41	Ant 3	16.5	18.5	18.5	16.5	22.5	1.50
FR1 n41 HPUE	Ant 3	16.5	18.5	18.5	16.5	22.5	1.50
FR1 n41	Ant 5	17.0	20.0	20.0	17.0	21.0	1.50
FR1 n41 HPUE	Ant 5	17.0	20.0	20.0	17.0	20.5	1.50
FR1 n48	Ant 6	15.0	17.0	23.5	15.0	25.0	0.70
FR1 n48	Ant 8	14.0	21.0	21.0	14.0	22.5	1.50
FR1 n48	Ant 7	15.0	18.0	22.5	15.0	24.0	1.50
FR1 n48	Ant 9	28.8	16.5	16.5	15.0	22.5	1.50
FR1 n77_PC3	Ant 6	16.0	16.5	24.3	16.0	22.5	1.00
FR1 n77_PC2	Ant 6	16.0	16.5	24.3	16.0	22.0	1.00
FR1 n77_PC3	Ant 8	13.0	16.0	16.0	13.0	20.5	1.50
FR1 n77_PC2	Ant 8	13.0	16.0	16.0	13.0	20.5	1.50
FR1 n77_PC3	Ant 7	15.0	18.0	24.2	15.0	21.5	1.50
FR1 n77_PC2	Ant 7	15.0	18.0	24.2	15.0	21.5	1.50
FR1 n77_PC3	Ant 9	24.9	14.5	14.5	14.5	20.0	1.50
FR1 n77_PC2	Ant 9	24.9	14.5	14.5	14.5	20.0	1.50
FR1 n78_PC3	Ant 6	14.0	16.0	22.5	14.0	23.0	1.00
FR1 n78_PC2	Ant 6	14.0	16.0	22.5	14.0	23.0	1.00
FR1 n78_PC3	Ant 8	12.5	16.5	16.5	12.5	21.0	1.50
FR1 n78_PC2	Ant 8	12.5	16.5	16.5	12.5	21.0	1.50
FR1 n78_PC3	Ant 7	14.0	17.0	22.2	14.0	22.0	1.50
FR1 n78_PC2	Ant 7	14.0	17.0	22.2	14.0	22.0	1.50

FR1 n78_PC3	Ant 9	25.7	15.0	15.0	15.0	21.0	1.50
FR1 n78_PC2	Ant 9	25.7	15.0	15.0	15.0	21.0	1.50

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

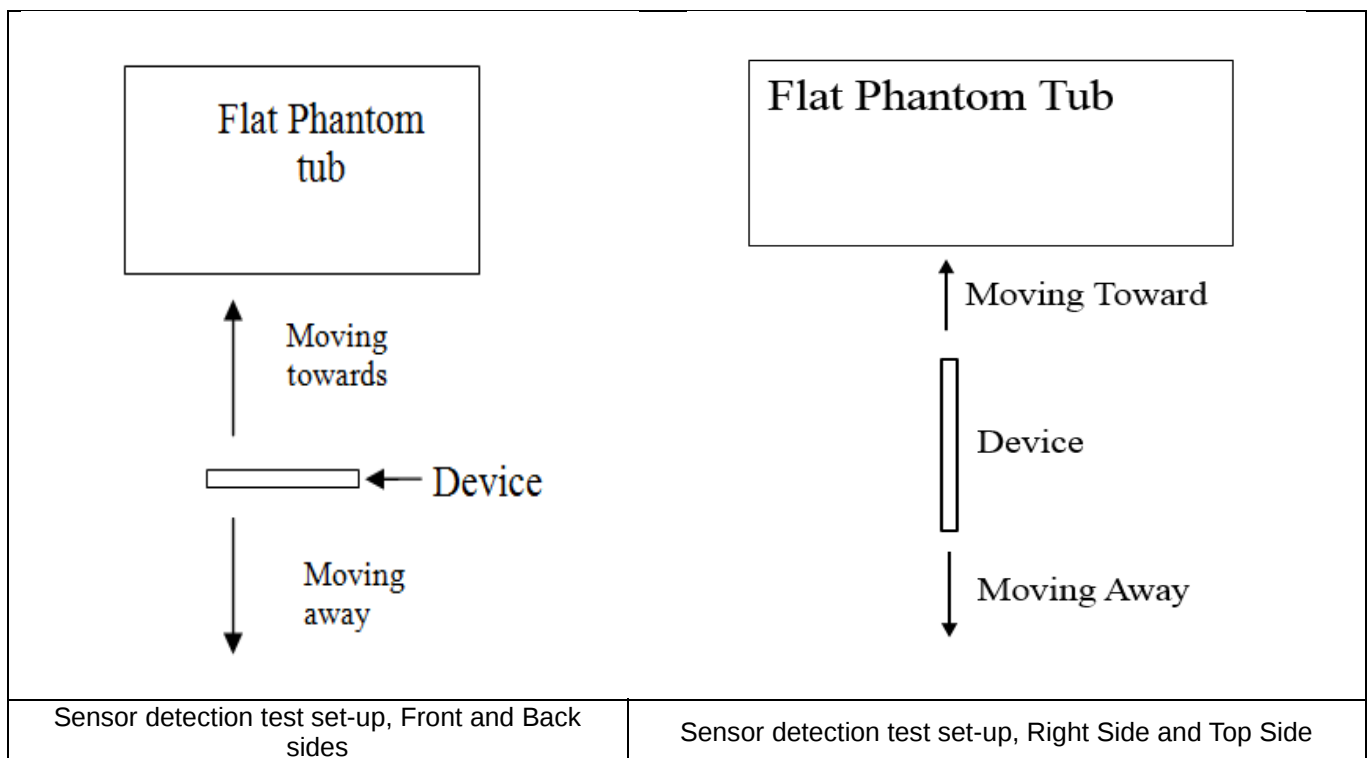
2) All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD).

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>:

- 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 (1750MHz) frequency was used for proximity sensor triggering testing.
- Capacitive proximity sensors placed coincident with antenna elements at the top right corner of the top end 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 right 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.
- The sensors can use to detect the proximity of the user's body or handheld states at the front or back or right or top side of the device use a detection threshold distance. When front/back/right /top sides of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
- 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 Ant4/6/7 >

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	6	6	6	6	6	6	6	6

7. RF Exposure Limits

7.1 Uncontrolled Environment

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

7.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

8. Specific Absorption Rate (SAR)

8.1 Introduction

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

8.2 SAR Definition

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

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

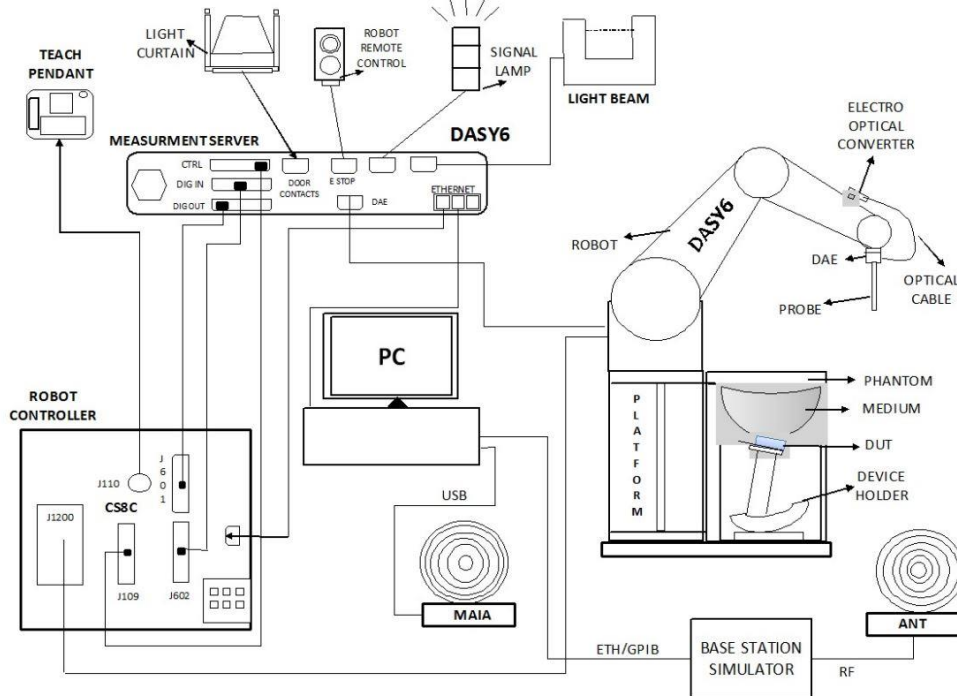
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

9.1 E-Field Probe

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

<EX3DV4 Probe>

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

9.2 Data Acquisition Electronics (DAE)

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

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



Photo of DAE

9.3 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

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

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

9.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the head, 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: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

10.4 Zoom Scan

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

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

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

10.5 Volume Scan Procedures

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

10.6 Power Drift Monitoring

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

11. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	835MHz System Validation Kit	D835V2	4d298	2024/1/26	2025/1/25
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2022/2/24	2025/2/22
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	2022/3/30	2025/3/28
SPEAG	2450MHz System Validation Kit	D2450V2	1095	2024/2/8	2025/2/7
SPEAG	2600MHz System Validation Kit	D2600V2	1112	2023/12/18	2024/12/17
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2023/11/20	2024/11/19
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2023/11/20	2024/11/19
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2023/3/9	2026/3/8
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2025/9/21
SPEAG	Data Acquisition Electronics	DAE4	1649	2024/7/3	2025/7/2
SPEAG	Dosimetric E-Field Probe	EX3DV4	7706	2024/1/24	2025/1/23
SPEAG	SAM Twin Phantom	SAM Twin	TP-2024	NCR	NCR
CHIGO	Thermo-Hygrometer	HTC-1	55009	2024/1/4	2025/1/3
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2024/7/4	2025/7/3
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	2024/7/4	2025/7/3
SPEAG	Dielectric Probe Kit	DAK-3.5	1071	2024/2/19	2025/2/18
Anritsu	Vector Signal Generator	MG3710A	6201682672	2024/1/2	2025/1/1
Rohde & Schwarz	Power Meter	NRVD	102081	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2024/7/4	2025/7/3
R&S	BLUETOOTH TESTER	CBT	101246	2024/7/4	2025/7/3
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2024/10/11	2025/10/10
TES	DIGITAC THERMOMETER	TYPE-K	220305411	2024/1/4	2025/1/3
ARRA	Power Divider	A3200-2	N/A	Note 1	
MCL	Attenuation1	BW-S10W5+	N/A	Note 1	
MCL	Attenuation2	BW-S10W5+	N/A	Note 1	
MCL	Attenuation3	BW-S10W5+	N/A	Note 1	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	

Note:

- Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check.
- Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

12. System Verification

12.1 Tissue Simulating Liquids

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

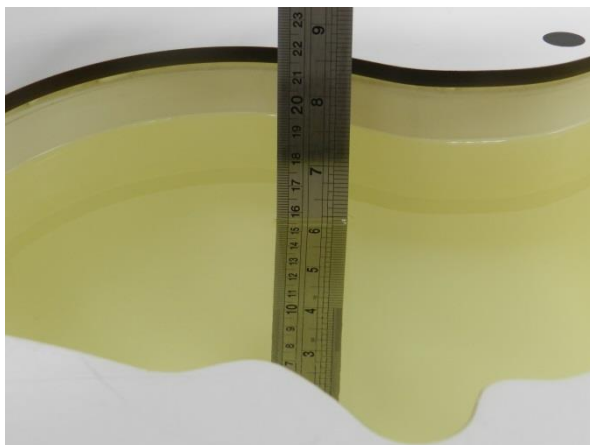


Fig 11.1 Photo of Liquid Height for Head SAR



Fig 11.2 Photo of Liquid Height for Body SAR

12.2 Tissue Verification

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

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

Simulating Liquid for 5GHz, Manufactured by SPEAG

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

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
835	Head	22.8	0.923	41.5	0.90	41.50	2.56	0.00	±5	2024/10/17
1750	Head	22.8	1.35	40.1	1.37	40.10	-1.46	0.00	±5	2024/10/18
1900	Head	22.8	1.43	39.8	1.40	40.00	2.14	-0.50	±5	2024/10/19
2450	Head	22.7	1.86	38.4	1.80	39.20	3.33	-2.04	±5	2024/10/20
2600	Head	22.7	2.03	37.8	1.96	39.00	3.57	-3.08	±5	2024/10/21
3500	Head	22.6	2.88	38.5	2.91	37.90	-1.03	1.58	±5	2024/10/22
3700	Head	22.6	3.08	38.0	3.12	37.70	-1.28	0.80	±5	2024/10/23
3900	Head	22.6	3.28	37.6	3.32	37.50	-1.20	0.27	±5	2024/10/24
5250	Head	22.7	4.57	35.5	4.71	35.90	-2.97	-1.11	±5	2024/10/25
5600	Head	22.7	4.95	34.8	5.07	35.50	-2.37	-1.97	±5	2024/10/26
5750	Head	22.7	5.13	34.6	5.22	35.40	-1.72	-2.26	±5	2024/10/27
835	Head	22.8	0.924	41.4	0.90	41.50	2.67	-0.24	±5	2024/10/27
1750	Head	22.6	1.34	40.2	1.37	40.10	-2.19	0.25	±5	2024/10/28
1900	Head	22.6	1.42	39.9	1.40	40.00	1.43	-0.25	±5	2024/10/29
2450	Head	22.7	1.83	37.5	1.80	39.20	1.67	-4.34	±5	2024/10/30
2600	Head	22.7	1.93	38.3	1.96	39.00	-1.53	-1.79	±5	2024/10/31
3500	Head	22.8	2.85	38.6	2.91	37.90	-2.06	1.85	±5	2024/11/1
3700	Head	22.8	3.04	38.2	3.12	37.70	-2.56	1.33	±5	2024/11/2
3900	Head	22.8	3.25	37.8	3.32	37.50	-2.11	0.80	±5	2024/11/3
5250	Head	22.7	4.58	35.7	4.71	35.90	-2.76	-0.56	±5	2024/11/4
5600	Head	22.7	4.95	35.1	5.07	35.50	-2.37	-1.13	±5	2024/11/5
5750	Head	22.7	5.11	34.9	5.22	35.40	-2.11	-1.41	±5	2024/11/6



12.3 System Performance Check Results

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

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2024/10/17	835	Head	50	4d298	7706	1649	0.457	9.89	9.14	-7.58
2024/10/18	1750	Head	50	1090	7706	1649	1.96	37.00	39.2	5.95
2024/10/19	1900	Head	50	5d118	7706	1649	2.09	39.30	41.8	6.36
2024/10/20	2450	Head	50	1095	7706	1649	2.72	52.60	54.4	3.42
2024/10/21	2600	Head	50	1112	7706	1649	2.81	55.10	56.2	2.00
2024/10/22	3500	Head	50	1037	7706	1649	3.13	65.40	62.6	-4.28
2024/10/23	3700	Head	50	1008	7706	1649	3.27	67.20	65.4	-2.68
2024/10/24	3900	Head	50	1048	7706	1649	3.27	69.10	65.4	-5.35
2024/10/25	5250	Head	50	1113	7706	1649	3.81	81.50	76.2	-6.50
2024/10/26	5600	Head	50	1113	7706	1649	3.89	82.60	77.8	-5.81
2024/10/27	5750	Head	50	1113	7706	1649	3.81	80.80	76.2	-5.69
2024/10/27	835	Head	50	4d298	7706	1649	0.459	9.89	9.18	-7.18
2024/10/28	1750	Head	50	1090	7706	1649	1.95	37.00	39	5.41
2024/10/29	1900	Head	50	5d118	7706	1649	2.05	39.30	41	4.33
2024/10/30	2450	Head	50	1095	7706	1649	2.68	52.60	53.6	1.90
2024/10/31	2600	Head	50	1112	7706	1649	2.73	55.10	54.6	-0.91
2024/11/1	3500	Head	50	1037	7706	1649	3.13	65.40	62.6	-4.28
2024/11/2	3700	Head	50	1008	7706	1649	3.27	67.20	65.4	-2.68
2024/11/3	3900	Head	50	1048	7706	1649	3.26	69.10	65.2	-5.64
2024/11/4	5250	Head	50	1113	7706	1649	3.77	81.50	75.4	-7.48
2024/11/5	5600	Head	50	1113	7706	1649	4.30	82.60	86	4.12
2024/11/6	5750	Head	50	1113	7706	1649	4.25	80.80	85	5.20

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2024/10/17	835	Head	50	4d298	7706	1649	0.307	6.45	6.14	-4.81
2024/10/18	1750	Head	50	1090	7706	1649	1.01	19.50	20.2	3.59
2024/10/19	1900	Head	50	5d118	7706	1649	1.10	20.40	22	7.84
2024/10/20	2450	Head	50	1095	7706	1649	1.30	24.70	26	5.26
2024/10/21	2600	Head	50	1112	7706	1649	1.25	24.80	25	0.81
2024/10/22	3500	Head	50	1037	7706	1649	1.23	24.70	24.6	-0.40
2024/10/23	3700	Head	50	1008	7706	1649	1.23	24.40	24.6	0.82
2024/10/24	3900	Head	50	1048	7706	1649	1.16	24.10	23.2	-3.73
2024/10/25	5250	Head	50	1113	7706	1649	1.15	23.30	23	-1.29
2024/10/26	5600	Head	50	1113	7706	1649	1.13	23.70	22.6	-4.64
2024/10/27	5750	Head	50	1113	7706	1649	1.14	23.00	22.8	-0.87
2024/10/27	835	Head	50	4d298	7706	1649	0.308	6.45	6.16	-4.50
2024/10/28	1750	Head	50	1090	7706	1649	1.01	19.50	20.2	3.59
2024/10/29	1900	Head	50	5d118	7706	1649	1.08	20.40	21.6	5.88
2024/10/30	2450	Head	50	1095	7706	1649	1.28	24.70	25.6	3.64
2024/10/31	2600	Head	50	1112	7706	1649	1.26	24.80	25.2	1.61
2024/11/1	3500	Head	50	1037	7706	1649	1.21	24.70	24.2	-2.02
2024/11/2	3700	Head	50	1008	7706	1649	1.23	24.40	24.6	0.82
2024/11/3	3900	Head	50	1048	7706	1649	1.16	24.10	23.2	-3.73
2024/11/4	5250	Head	50	1113	7706	1649	1.11	23.30	22.2	-4.72
2024/11/5	5600	Head	50	1113	7706	1649	1.26	23.70	25.2	6.33
2024/11/6	5750	Head	50	1113	7706	1649	1.24	23.00	24.8	7.83

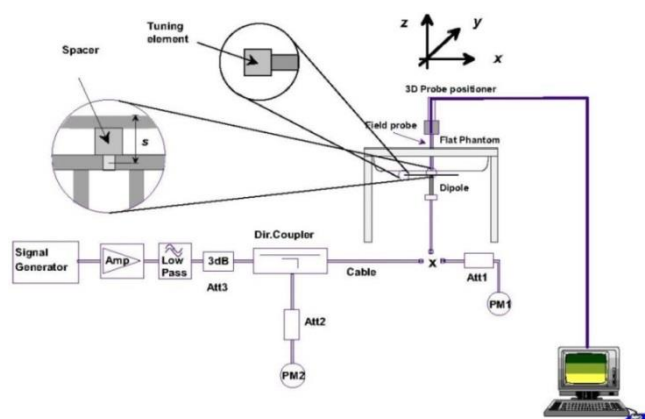


Fig 11.3.1 System Performance Check Setup



Fig 11.3.2 Setup Photo

13. RF Exposure Positions

13.1 Ear and handset reference point

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

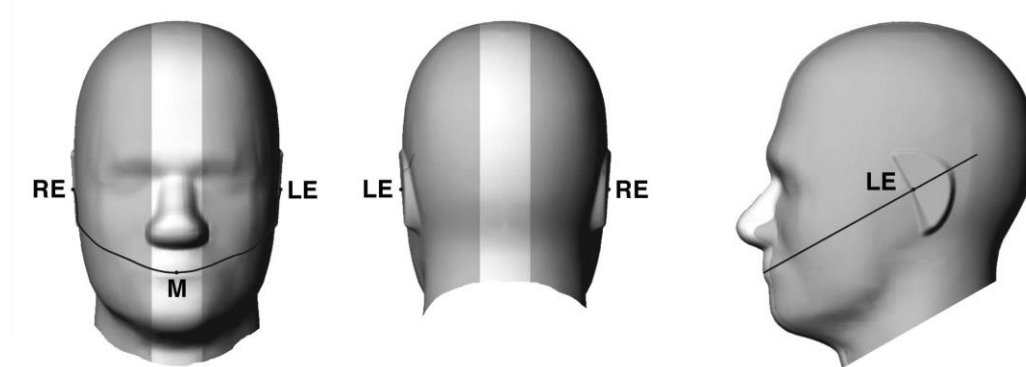


Fig 12.1.1 Front, back, and side views of SAM twin phantom

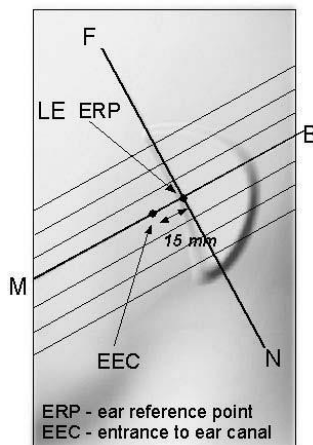


Fig 12.1.2 Close-up side view of phantom showing the ear region.

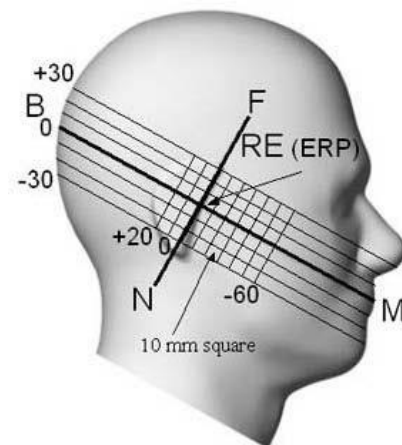


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

13.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 12.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 12.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 12.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 12.2.3. The actual rotation angles should be documented in the test report.

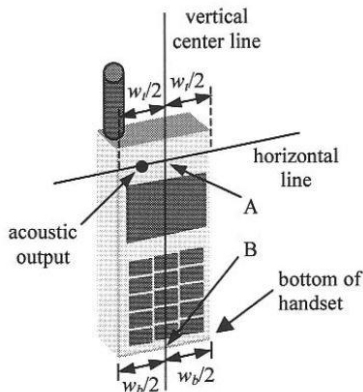


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case"

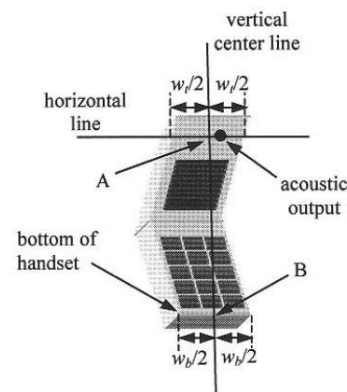


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

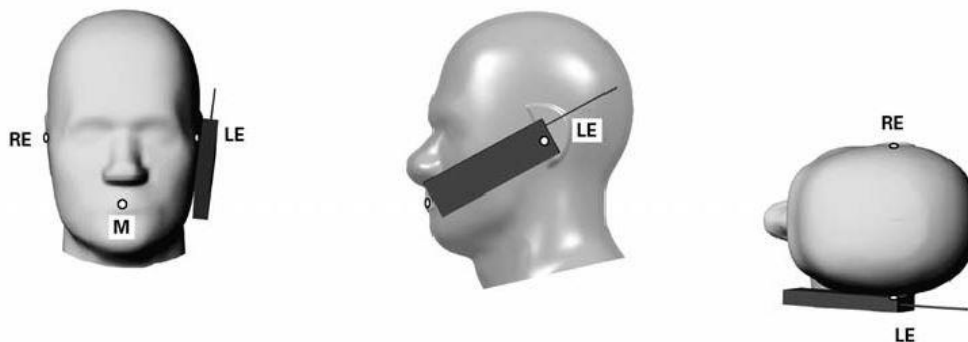


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

13.3 Definition of the tilt position

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

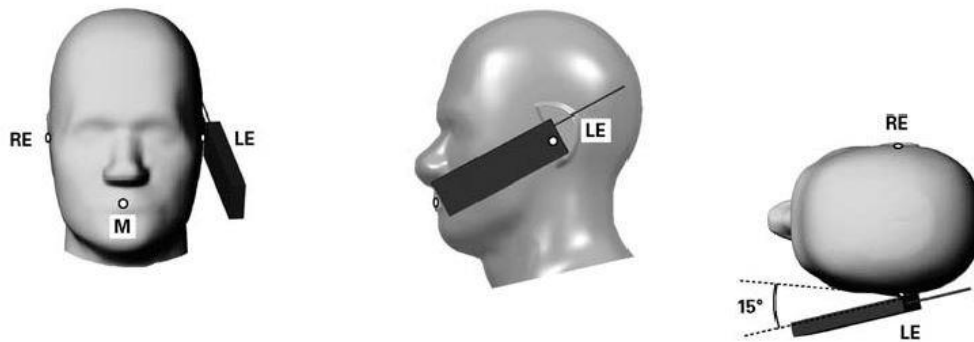


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

13.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 11.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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

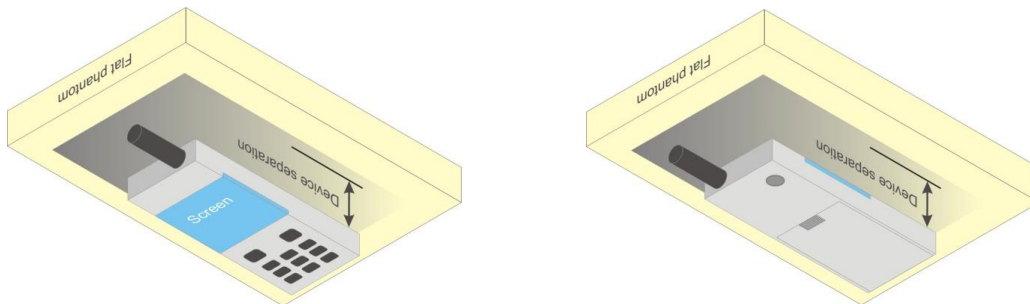


Fig 12.4 Body Worn Position

13.5 Product Specific 10g SAR Exposure

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

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

13.6 Wireless Router

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

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

14. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

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

<WCDMA Conducted Power>

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

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_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_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

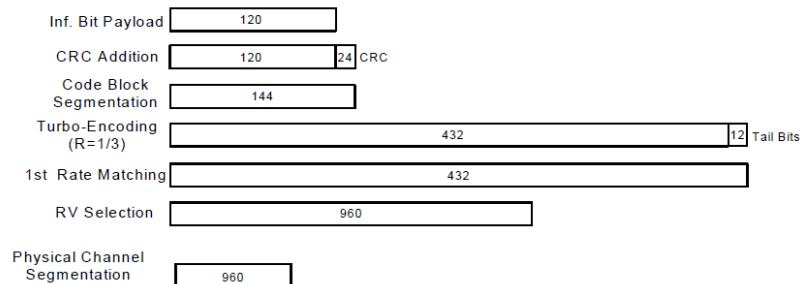


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK) Setup Configuration

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>

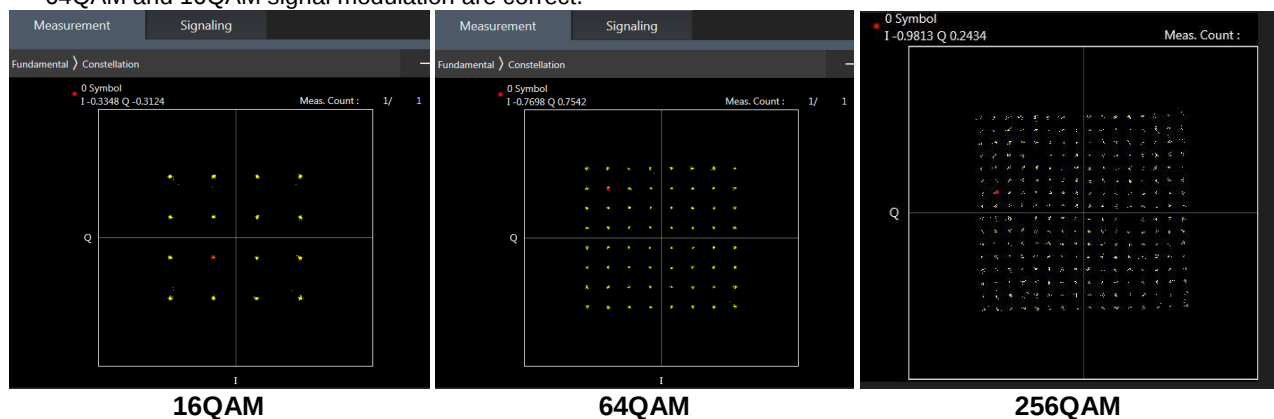
General Note:

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 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. 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.

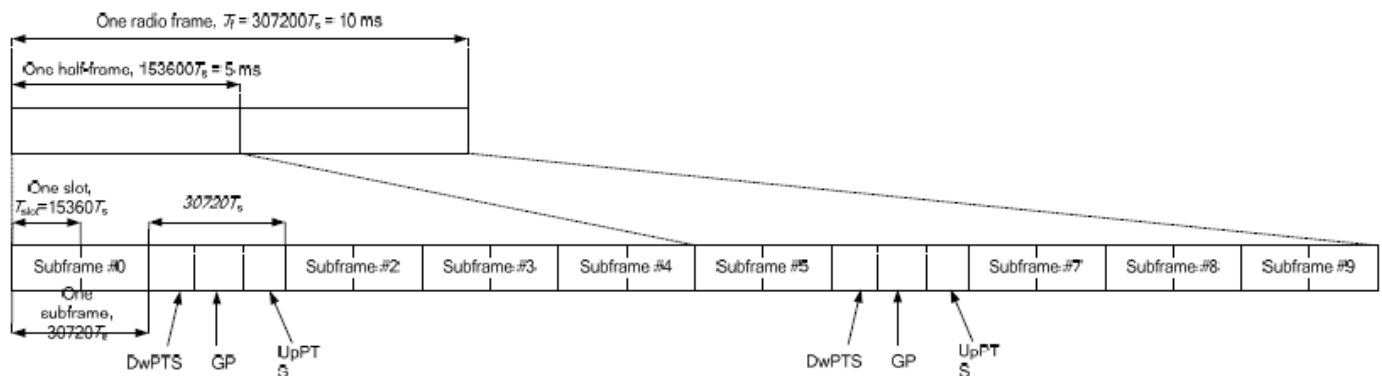


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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

2CC Downlink Carrier Aggregation				3CC Downlink Carrier Aggregation			
Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset
1	CA_2A-4A	4A		1	CA_2A-7A-7A	7A-7A	
2	CA_2A-7A		3CC-1	2	CA_2A-7C	7C	
3	CA_38C	38C		3	CA_41D	41D	
4	CA_41A-41A	41A-41A		4	CA_4A-7C	4A,7C	
5	CA_41C	41C		5	CA_5A-7A-7A	7A-7A	
6	CA_4A-5A	4A					
7	CA_4A-7A	4A,7A					
8	CA_5A-7A	7A	3CC-5				
9	CA_7A-7A	7A-7A	3CC-5				
10	CA_7C	7C	3CC-2				
11	CA_66C	66C					
12	CA_66B	66B					
13	CA_2A-2A						
14	CA_66A-66A	66A-66A					
15	CA_38A-38A	38A					

LTE Carrier Aggregation Conducted Power (Downlink)

- i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- iii. The device supports downlink three carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- v. For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size and offset will base on the PCC corresponding RB allocation.
- vi. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- vii. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

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

LTE 4x4 MIMO (Downlink)

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

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

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

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_7C	ANT4/2/3/5
CA_38C	ANT4/2/3/5
CA_41C	ANT4/2/3/5

<Intra-band>
General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B7/38/41 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. The device supports uplink carrier aggregation with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.
- iii. According 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.
- iv. 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.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n7 /n41 /n78 is NSA mode.
2. 5G NR n2/n5/n7/n26/n66/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 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.
5. For 5G NR, the simultaneous transmission analysis is used standalone SAR at total power level to show compliance.
6. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
7. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
8. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
9. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
10. 5G NR n41/n77/n78 supports HPUE, HPUE power and SAR testing performed separately.
11. 5G NR n41/n77/n78 HPUE 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 chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.

<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	LTE Antenna Tx	FR1 Antenna Tx
DC_5A_n7A	Ant0/1	Ant4/3/2/5
DC_7A_n7A	Ant4/3/2/5	Ant2/4/3/5
DC_41A_n41A	Ant4/3/2/5	Ant2/4/3/5
DC_2A_n78A	Ant4/3/2/5	Ant6/8/7/9
DC_7A_n78A	Ant2/4/3/5	Ant6/8/7/9
DC_38A_n78A	Ant2/4/3/5	Ant6/8/7/9
DC_41A_n78A	Ant2/4/3/5	Ant6/8/7/9

NR Carrier Aggregation Conducted Power (Uplink)

NR Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_n77C	ANT6/7/8/9

General Note:

- The device supports intra-band uplink carrier aggregation for 5GNR n77C with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 38.101 table 6.2A.1.1-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 38.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- Additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

<WLAN Conducted Power>

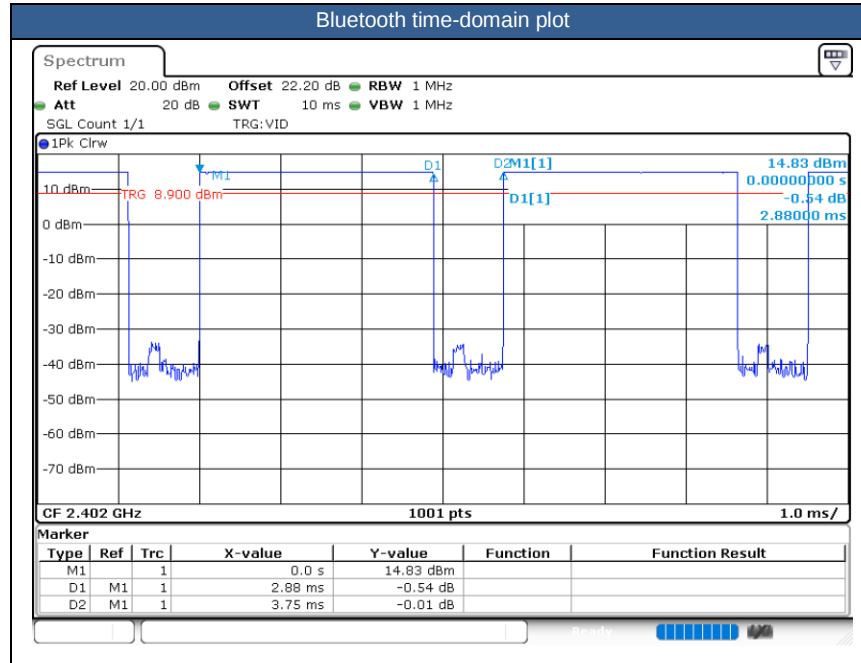
General Note:

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

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.80% 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 power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
5. For WLAN/BT when transmit simultaneously with each other, or when transmit simultaneously with WWAN/BT, the device power will be reduced power at head, body-worn, hotspot and extremity conditions.
6. 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.
7. 5G NR n41/n77/n78 HPUE 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 we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
8. 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 GSM850, LTE Band 2, 5G NR n48/n2/n66, WLAN2.4/5.8GHz, therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
9. 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).
10. LTE B5 at ant0/1 and LTE B7/38/41 at ant2/5/3/4 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.

11. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
12. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.

GSM Note:

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

WCDMA Note:

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

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

- d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in 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 ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
- f. For 5G FR1 n5 /n7/n66/n38/n41/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. 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. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing. However, in order to do SISO simultaneous transmission, we tested the WLAN 2.4G SISO antenna 7.
8. 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.

ECI status description:

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

This WWAN 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	ECI	Trigger conditions
Head SAR	ECI1	Earpiece On
Hotspot SAR	ECI5	Hotspot On
Body worn SAR	ECI4	Sensor Off/ receiver off
Extremity SAR	ECI3	Sensor On
Extremity SAR (Sensor Trigger Distance -1mm)	ECI4	Sensor Off/ receiver off



16.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	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)
835MHz																				
01	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 0	ECI 1	189	836.4	27.08	28.00	1.236	-	-	-0.01	0.218	0.269
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 0	ECI 1	189	836.4	27.08	28.00	1.236	-	-	0.08	0.132	0.163
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 0	ECI 1	189	836.4	27.08	28.00	1.236	-	-	0.01	0.215	0.266
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 0	ECI 1	189	836.4	27.08	28.00	1.236	-	-	0.03	0.096	0.119
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	ECI 1	189	836.4	24.61	26.00	1.377	-	-	-0.08	0.366	0.504
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 1	ECI 1	189	836.4	24.61	26.00	1.377	-	-	-0.08	0.063	0.087
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	ECI 1	189	836.4	24.61	26.00	1.377	-	-	0.09	0.728	1.003
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	ECI 1	128	824.2	24.58	26.00	1.387	-	-	0.1	0.666	0.924
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	ECI 1	251	848.8	24.50	26.00	1.413	-	-	-0.18	0.641	0.905
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 1	ECI 1	189	836.4	24.61	26.00	1.377	-	-	0.1	0.089	0.123
02	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	ECI 1	4182	836.4	24.14	25.00	1.219	-	-	0.09	0.232	0.283
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	ECI 1	4182	836.4	24.14	25.00	1.219	-	-	0.07	0.142	0.173
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	ECI 1	4182	836.4	24.14	25.00	1.219	-	-	0.18	0.222	0.271
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	ECI 1	4182	836.4	24.14	25.00	1.219	-	-	-0.1	0.118	0.144
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI 1	4182	836.4	21.19	22.50	1.352	-	-	-0.17	0.333	0.450
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	ECI 1	4182	836.4	21.19	22.50	1.352	-	-	0.01	0.062	0.084
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI 1	4182	836.4	21.19	22.50	1.352	-	-	0.01	0.635	0.859
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI 1	4132	826.4	21.14	22.50	1.368	-	-	0.1	0.587	0.803
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI 1	4233	846.6	21.11	22.50	1.377	-	-	-0.17	0.595	0.819
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	ECI 1	4182	836.4	21.19	22.50	1.352	-	-	0.04	0.087	0.118
03	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 1	20600	844	25.11	25.70	1.146	-	-	0.02	0.312	0.357
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI 1	20600	844	24.06	24.70	1.159	-	-	0.02	0.246	0.285
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 1	20600	844	25.11	25.70	1.146	-	-	0.07	0.205	0.235
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI 1	20600	844	24.06	24.70	1.159	-	-	0.16	0.160	0.185
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 1	20600	844	25.11	25.70	1.146	-	-	0.13	0.283	0.324
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI 1	20600	844	24.06	24.70	1.159	-	-	-0.18	0.223	0.258
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 1	20600	844	25.11	25.70	1.146	-	-	0.02	0.169	0.194
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI 1	20600	844	24.06	24.70	1.159	-	-	0.16	0.123	0.143
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 1	20600	844	25.12	25.70	1.143	-	-	0.11	0.310	0.354
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 1	20600	844	25.11	25.70	1.146	-	-	0.02	0.158	0.181
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI 1	20600	844	24.06	24.70	1.159	-	-	0.07	0.130	0.151
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 1	20600	844	25.11	25.70	1.146	-	-	0.01	0.088	0.101
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI 1	20600	844	24.06	24.70	1.159	-	-	0.01	0.072	0.083
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 1	20600	844	25.11	25.70	1.146	-	-	-0.01	0.115	0.132
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI 1	20600	844	24.06	24.70	1.159	-	-	-0.06	0.090	0.104
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 1	20600	844	25.11	25.70	1.146	-	-	-0.04	0.070	0.080
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI 1	20600	844	24.06	24.70	1.159	-	-	-0.09	0.062	0.072
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 1	20600	844	25.12	25.70	1.143	-	-	-0.08	0.157	0.179
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 1	20525	836.5	22.53	23.20	1.167	-	-	0.02	0.492	0.574
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	ECI 1	20525	836.5	22.52	23.20	1.169	-	-	-0.13	0.487	0.570
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 1	20525	836.5	22.53	23.20	1.167	-	-	0.06	0.085	0.099
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	ECI 1	20525	836.5	22.52	23.20	1.169	-	-	0.06	0.084	0.098
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 1	20525	836.5	22.53	23.20	1.167	-	-	0.03	0.937	1.093
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI 1	20525	836.5	22.52	23.20	1.169	-	-	-0.04	0.918	1.074
	LTE Band 5	10M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 1	20525	836.5	22.51	23.20	1.172	-	-	-0.15	0.908	1.064
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 1	20525	836.5	22.53	23.20	1.167	-	-	0.11	0.129	0.151
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	ECI 1	20525	836.5	22.52	23.20	1.169	-	-	-0.02	0.127	0.149
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 1	20525	836.5	22.53	23.20	1.167	-	-	0.1	0.586	0.684
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 1	20525	836.5	22.85	23.20	1.084	-	-	0.06	0.881	0.955



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	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 1	26965	841.5	25.14	25.70	1.138	-	-	0.02	0.304	0.346
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	ECI 1	26965	841.5	24.01	24.70	1.172	-	-	-0.1	0.238	0.279
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 1	26965	841.5	25.14	25.70	1.138	-	-	0.18	0.192	0.218
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	ECI 1	26965	841.5	24.01	24.70	1.172	-	-	-0.17	0.151	0.177
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 1	26965	841.5	25.14	25.70	1.138	-	-	-0.04	0.288	0.328
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	ECI 1	26965	841.5	24.01	24.70	1.172	-	-	-0.05	0.226	0.265
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 1	26965	841.5	25.14	25.70	1.138	-	-	0.03	0.150	0.171
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	ECI 1	26965	841.5	24.01	24.70	1.172	-	-	-0.13	0.125	0.147
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 1	26965	841.5	25.14	25.70	1.138	-	-	-0.01	0.147	0.167
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	ECI 1	26965	841.5	24.01	24.70	1.172	-	-	-0.09	0.120	0.141
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 1	26965	841.5	25.14	25.70	1.138	-	-	0.05	0.079	0.090
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	ECI 1	26965	841.5	24.01	24.70	1.172	-	-	0.02	0.066	0.077
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 1	26965	841.5	25.14	25.70	1.138	-	-	-0.13	0.111	0.126
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	ECI 1	26965	841.5	24.01	24.70	1.172	-	-	0.17	0.083	0.097
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 1	26965	841.5	25.14	25.70	1.138	-	-	0.06	0.064	0.073
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	ECI 1	26965	841.5	24.01	24.70	1.172	-	-	-0.08	0.051	0.060
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 1	26865	831.5	22.10	22.70	1.148	-	-	-0.04	0.363	0.417
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	ECI 1	26865	831.5	22.05	22.70	1.161	-	-	-0.15	0.376	0.437
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 1	26865	831.5	22.10	22.70	1.148	-	-	0.11	0.068	0.078
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	ECI 1	26865	831.5	22.05	22.70	1.161	-	-	-0.02	0.070	0.081
04	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 1	26865	831.5	22.10	22.70	1.148	-	-	0.04	0.751	0.862
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	ECI 1	26865	831.5	22.05	22.70	1.161	-	-	0.1	0.721	0.837
	LTE Band 26	15M	QPSK	75	0	-	Left Cheek	0mm	Ant 1	ECI 1	26865	831.5	22.02	22.70	1.169	-	-	0.04	0.693	0.810
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 1	26865	831.5	22.10	22.70	1.148	-	-	0.13	0.093	0.107
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	ECI 1	26865	831.5	22.05	22.70	1.161	-	-	-0.18	0.102	0.118
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 1	26865	831.5	22.10	22.70	1.148	-	-	-0.11	0.464	0.533
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI 1	167800	839	25.40	25.70	1.072	-	-	0.01	0.316	0.339
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI 1	167800	839	25.32	25.70	1.091	-	-	-0.16	0.312	0.341
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI 1	167800	839	25.40	25.70	1.072	-	-	-0.15	0.204	0.219
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI 1	167800	839	25.32	25.70	1.091	-	-	-0.06	0.201	0.219
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI 1	167800	839	25.40	25.70	1.072	-	-	-0.14	0.291	0.312
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI 1	167800	839	25.32	25.70	1.091	-	-	-0.19	0.293	0.320
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI 1	167800	839	25.40	25.70	1.072	-	-	0.01	0.155	0.166
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI 1	167800	839	25.32	25.70	1.091	-	-	0.06	0.152	0.166
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI 1	167800	839	25.40	25.70	1.072	-	-	-0.17	0.122	0.131
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI 1	167800	839	25.32	25.70	1.091	-	-	-0.08	0.115	0.126
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI 1	167800	839	25.40	25.70	1.072	-	-	-0.04	0.062	0.066
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI 1	167800	839	25.32	25.70	1.091	-	-	-0.08	0.066	0.072
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI 1	167800	839	25.40	25.70	1.072	-	-	0.17	0.080	0.086
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI 1	167800	839	25.32	25.70	1.091	-	-	0.18	0.089	0.097
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI 1	167800	839	25.40	25.70	1.072	-	-	-0.04	0.047	0.050
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI 1	167800	839	25.32	25.70	1.091	-	-	-0.08	0.055	0.060
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 1	167300	836.5	22.51	22.70	1.045	-	-	0.02	0.375	0.392
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 1	167300	836.5	22.49	22.70	1.050	-	-	0.07	0.428	0.449
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI 1	167300	836.5	22.51	22.70	1.045	-	-	0.16	0.073	0.076
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI 1	167300	836.5	22.49	22.70	1.050	-	-	0.13	0.084	0.088
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 1	167300	836.5	22.51	22.70	1.045	-	-	-0.18	0.760	0.794
05	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 1	167300	836.5	22.49	22.70	1.050	-	-	0.01	0.895	0.939
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 1	167300	836.5	22.47	22.70	1.054	-	-	0.05	0.851	0.897
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI 1	167300	836.5	22.51	22.70	1.045	-	-	0.05	0.099	0.103
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI 1	167300	836.5	22.49	22.70	1.050	-	-	-0.03	0.115	0.121
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 1	167300	836.5	22.49	22.70	1.050	-	-	-0.15	0.594	0.623
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI 1	167800	839	25.45	25.70	1.059	-	-	-0.11	0.324	0.343
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI 1	167800	839	25.39	25.70	1.074	-	-	-0.12	0.312	0.335
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI 1	167800	839	25.45	25.70	1.059	-	-	0.03	0.207	0.219
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI 1	167800	839	25.39	25.70	1.074	-	-	-0.16	0.203	0.218



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	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI 1	167800	839	25.45	25.70	1.059	-	-	-0.02	0.294	0.311
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI 1	167800	839	25.39	25.70	1.074	-	-	0.15	0.299	0.321
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI 1	167800	839	25.45	25.70	1.059	-	-	-0.09	0.157	0.166
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI 1	167800	839	25.39	25.70	1.074	-	-	0.11	0.164	0.176
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI 1	167800	839	25.45	25.70	1.059	-	-	-0.13	0.150	0.159
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI 1	167800	839	25.39	25.70	1.074	-	-	-0.13	0.153	0.164
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI 1	167800	839	25.45	25.70	1.059	-	-	0.06	0.082	0.087
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI 1	167800	839	25.39	25.70	1.074	-	-	-0.03	0.085	0.091
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI 1	167800	839	25.45	25.70	1.059	-	-	-0.03	0.105	0.111
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI 1	167800	839	25.39	25.70	1.074	-	-	0.08	0.114	0.122
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI 1	167800	839	25.45	25.70	1.059	-	-	-0.07	0.068	0.072
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI 1	167800	839	25.39	25.70	1.074	-	-	0.05	0.066	0.071
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 1	166300	831.5	22.55	22.70	1.035	-	-	0.02	0.331	0.343
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI 1	166300	831.5	22.51	22.70	1.045	-	-	0.16	0.409	0.427
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI 1	166300	831.5	22.55	22.70	1.035	-	-	-0.03	0.062	0.064
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI 1	166300	831.5	22.51	22.70	1.045	-	-	0.07	0.075	0.078
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 1	166300	831.5	22.55	22.70	1.035	-	-	0.05	0.661	0.684
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 1	166300	831.5	22.51	22.70	1.045	-	-	0.01	0.811	0.847
06	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 1	166300	831.5	22.47	22.70	1.054	-	-	-0.01	0.814	0.858
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI 1	166300	831.5	22.55	22.70	1.035	-	-	-0.06	0.091	0.094
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI 1	166300	831.5	22.51	22.70	1.045	-	-	-0.04	0.111	0.116
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI 1	166300	831.5	22.47	22.70	1.054	-	-	-0.09	0.464	0.489
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI 1	1413	1732.6	24.01	25.00	1.256	-	-	-0.14	0.146	0.183
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI 1	1413	1732.6	24.01	25.00	1.256	-	-	0.01	0.066	0.083
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI 1	1413	1732.6	24.01	25.00	1.256	-	-	-0.15	0.135	0.170
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI 1	1413	1732.6	24.01	25.00	1.256	-	-	0.19	0.076	0.095
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 1	1413	1732.6	17.32	18.70	1.374	-	-	0.14	0.736	1.011
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 1	1312	1712.4	17.27	18.70	1.390	-	-	0.11	0.738	1.026
07	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 1	1513	1752.6	17.24	18.70	1.400	-	-	-0.08	0.770	1.078
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 1	1413	1732.6	17.32	18.70	1.374	-	-	-0.05	0.645	0.886
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 1	1312	1712.4	17.27	18.70	1.390	-	-	0.18	0.595	0.827
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 1	1513	1752.6	17.24	18.70	1.400	-	-	0.14	0.681	0.953
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	ECI 1	1413	1732.6	17.32	18.70	1.374	-	-	-0.17	0.450	0.618
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 4	ECI 1	1413	1732.6	17.32	18.70	1.374	-	-	0.01	0.449	0.617
08	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	20175	1732.5	18.12	18.70	1.143	-	-	-0.06	0.919	1.050
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	20175	1732.5	18.09	18.70	1.151	-	-	0.08	0.903	1.039
	LTE Band 4	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 1	20175	1732.5	18.05	18.70	1.161	-	-	0.01	0.895	1.039
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	20175	1732.5	18.12	18.70	1.143	-	-	-0.03	0.802	0.917
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	20175	1732.5	18.09	18.70	1.151	-	-	-0.08	0.781	0.899
	LTE Band 4	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	ECI 1	20175	1732.5	18.05	18.70	1.161	-	-	-0.08	0.782	0.908
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 1	20175	1732.5	18.12	18.70	1.143	-	-	0.1	0.566	0.647
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 1	20175	1732.5	18.09	18.70	1.151	-	-	-0.18	0.549	0.632
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 1	20175	1732.5	18.12	18.70	1.143	-	-	0.12	0.560	0.640
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 1	20175	1732.5	18.09	18.70	1.151	-	-	0.08	0.542	0.624
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	20175	1732.5	18.12	18.70	1.143	-	-	-0.03	0.426	0.487
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI 1	20175	1732.5	25.04	25.70	1.164	-	-	0.05	0.150	0.175
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI 1	20175	1732.5	24.06	24.70	1.159	-	-	0.08	0.124	0.144
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI 1	20175	1732.5	25.04	25.70	1.164	-	-	0.01	0.078	0.091
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI 1	20175	1732.5	24.06	24.70	1.159	-	-	0.03	0.064	0.074
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 1	20175	1732.5	25.04	25.70	1.164	-	-	-0.08	0.140	0.163
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI 1	20175	1732.5	24.06	24.70	1.159	-	-	-0.08	0.119	0.138
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI 1	20175	1732.5	25.04	25.70	1.164	-	-	0.1	0.090	0.105
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI 1	20175	1732.5	24.06	24.70	1.159	-	-	-0.18	0.075	0.087
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	20175	1732.5	19.56	21.00	1.393	-	-	0.1	0.314	0.437
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	20175	1732.5	19.49	21.00	1.416	-	-	0.12	0.315	0.446



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	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI 1	20175	1732.5	19.56	21.00	1.393	-	-	0.08	0.083	0.116
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI 1	20175	1732.5	19.49	21.00	1.416	-	-	-0.17	0.083	0.118
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 1	20175	1732.5	19.56	21.00	1.393	-	-	0.04	0.659	0.918
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 1	20175	1732.5	19.49	21.00	1.416	-	-	-0.03	0.646	0.915
	LTE Band 4	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 5	ECI 1	20175	1732.5	19.46	21.00	1.426	-	-	0.14	0.644	0.918
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 1	20175	1732.5	19.56	21.00	1.393	-	-	0.11	0.132	0.184
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI 1	20175	1732.5	19.49	21.00	1.416	-	-	-0.05	0.133	0.188
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	132322	1745	20.57	21.20	1.156	-	-	0.16	0.722	0.835
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	132072	1720	20.56	21.20	1.159	-	-	-0.1	0.764	0.885
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	132572	1770	20.48	21.20	1.180	-	-	0.07	0.792	0.935
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	132322	1745	20.49	21.20	1.178	-	-	0.07	0.727	0.856
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	132072	1720	20.44	21.20	1.191	-	-	-0.18	0.709	0.845
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	132572	1770	20.38	21.20	1.208	-	-	0.1	0.689	0.832
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 1	132322	1745	20.46	21.20	1.186	-	-	0.01	0.741	0.879
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	132322	1745	20.57	21.20	1.156	-	-	-0.15	0.652	0.754
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	132322	1745	20.49	21.20	1.178	-	-	-0.18	0.678	0.798
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 1	132322	1745	20.57	21.20	1.156	-	-	0.11	0.435	0.503
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 1	132322	1745	20.49	21.20	1.178	-	-	-0.08	0.445	0.524
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 1	132322	1745	20.57	21.20	1.156	-	-	0.18	0.442	0.511
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 1	132322	1745	20.49	21.20	1.178	-	-	-0.13	0.464	0.546
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI 1	132322	1745	25.05	25.70	1.161	-	-	0.18	0.170	0.197
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI 1	132322	1745	24.08	24.70	1.153	-	-	0.14	0.130	0.150
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI 1	132322	1745	25.05	25.70	1.161	-	-	-0.17	0.086	0.100
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI 1	132322	1745	24.08	24.70	1.153	-	-	0.17	0.074	0.085
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 1	132322	1745	25.05	25.70	1.161	-	-	-0.05	0.161	0.187
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI 1	132322	1745	24.08	24.70	1.153	-	-	0.01	0.134	0.155
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI 1	132322	1745	25.05	25.70	1.161	-	-	0.1	0.104	0.121
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI 1	132322	1745	24.08	24.70	1.153	-	-	-0.17	0.084	0.097
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	132322	1745	19.19	20.50	1.352	-	-	-0.03	0.320	0.433
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	132322	1745	19.16	20.50	1.361	-	-	0.08	0.330	0.449
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI 1	132322	1745	19.19	20.50	1.352	-	-	-0.07	0.077	0.104
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI 1	132322	1745	19.16	20.50	1.361	-	-	0.05	0.080	0.109
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 1	132322	1745	19.19	20.50	1.352	-	-	-0.11	0.642	0.868
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 1	132072	1720	19.11	20.50	1.377	-	-	-0.12	0.644	0.887
09	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 1	132572	1770	19.07	20.50	1.390	-	-	-0.02	0.742	1.031
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 1	132322	1745	19.16	20.50	1.361	-	-	0.03	0.663	0.903
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 1	132072	1720	18.97	20.50	1.422	-	-	0.12	0.645	0.917
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 1	132572	1770	19.05	20.50	1.396	-	-	0.08	0.636	0.888
	LTE Band 66	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 5	ECI 1	132322	1745	19.10	20.50	1.380	-	-	0.15	0.678	0.936
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 1	132322	1745	19.19	20.50	1.352	-	-	-0.09	0.131	0.177
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI 1	132322	1745	19.16	20.50	1.361	-	-	0.11	0.136	0.185
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	349000	1745	21.51	21.70	1.045	-	-	-0.04	0.880	0.919
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	349000	1745	21.49	21.70	1.050	-	-	-0.05	0.865	0.908
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	349000	1745	21.44	21.70	1.062	-	-	-0.08	0.838	0.890
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 1	349000	1745	21.51	21.70	1.045	-	-	0.16	0.772	0.807
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 1	349000	1745	21.49	21.70	1.050	-	-	0.05	0.766	0.804
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 1	349000	1745	21.44	21.70	1.062	-	-	0.05	0.761	0.808
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 1	349000	1745	21.51	21.70	1.045	-	-	-0.03	0.516	0.539
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 1	349000	1745	21.49	21.70	1.050	-	-	-0.15	0.532	0.558
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 1	349000	1745	21.51	21.70	1.045	-	-	0.02	0.552	0.577
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 1	349000	1745	21.49	21.70	1.050	-	-	0.07	0.541	0.568
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI 1	349000	1745	25.15	25.70	1.135	-	-	0.16	0.150	0.170
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI 1	349000	1745	25.07	25.70	1.156	-	-	0.15	0.202	0.234
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI 1	349000	1745	25.15	25.70	1.135	-	-	0.13	0.098	0.111
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI 1	349000	1745	25.07	25.70	1.156	-	-	-0.18	0.101	0.117
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI 1	349000	1745	25.15	25.70	1.135	-	-	0.02	0.149	0.169



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	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI 1	349000	1745	25.07	25.70	1.156	-	-	0.16	0.201	0.232
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI 1	349000	1745	25.15	25.70	1.135	-	-	-0.03	0.119	0.135
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI 1	349000	1745	25.07	25.70	1.156	-	-	0.07	0.126	0.146
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI 1	349000	1745	20.05	21.00	1.245	-	-	0.08	0.337	0.419
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI 1	349000	1745	20.00	21.00	1.259	-	-	0.01	0.363	0.457
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI 1	349000	1745	20.05	21.00	1.245	-	-	0.03	0.081	0.101
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI 1	349000	1745	20.00	21.00	1.259	-	-	-0.08	0.088	0.111
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	349000	1745	20.05	21.00	1.245	-	-	-0.08	0.687	0.855
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	349000	1745	20.00	21.00	1.259	-	-	0.1	0.749	0.943
10	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	349000	1745	19.96	21.00	1.271	-	-	0.18	0.752	0.955
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI 1	349000	1745	20.05	21.00	1.245	-	-	-0.18	0.143	0.178
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI 1	349000	1745	20.00	21.00	1.259	-	-	0.1	0.160	0.201
1900MHz																				
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 2	ECI 1	661	1880	24.14	25.00	1.219	-	-	0.12	0.069	0.084
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 2	ECI 1	661	1880	24.14	25.00	1.219	-	-	0.08	0.032	0.039
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 2	ECI 1	661	1880	24.14	25.00	1.219	-	-	0.01	0.074	0.090
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 2	ECI 1	661	1880	24.14	25.00	1.219	-	-	-0.17	0.044	0.054
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	ECI 1	661	1880	20.79	22.50	1.483	-	-	-0.03	0.696	1.032
11	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	ECI 1	512	1850.2	20.70	22.50	1.514	-	-	-0.01	0.703	1.064
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	ECI 1	810	1909.8	20.60	22.50	1.549	-	-	0.14	0.683	1.058
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 4	ECI 1	661	1880	20.79	22.50	1.483	-	-	0.11	0.629	0.933
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 4	ECI 1	512	1850.2	20.70	22.50	1.514	-	-	-0.05	0.612	0.926
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 4	ECI 1	810	1909.8	20.60	22.50	1.549	-	-	0.18	0.658	1.019
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 4	ECI 1	661	1880	20.79	22.50	1.483	-	-	0.14	0.408	0.605
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 4	ECI 1	661	1880	20.79	22.50	1.483	-	-	-0.17	0.432	0.640
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI 1	9400	1880	24.07	25.00	1.239	-	-	0.07	0.140	0.173
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI 1	9400	1880	24.07	25.00	1.239	-	-	-0.18	0.080	0.099
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI 1	9400	1880	24.07	25.00	1.239	-	-	0.05	0.156	0.193
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI 1	9400	1880	24.07	25.00	1.239	-	-	0.03	0.093	0.115
12	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 1	9400	1880	17.35	18.70	1.365	-	-	-0.01	0.780	1.064
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 1	9262	1852.4	17.30	18.70	1.380	-	-	0.04	0.732	1.010
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 1	9538	1907.6	17.32	18.70	1.374	-	-	-0.01	0.768	1.055
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 1	9400	1880	17.35	18.70	1.365	-	-	-0.08	0.742	1.013
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 1	9262	1852.4	17.30	18.70	1.380	-	-	0.05	0.673	0.929
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 1	9538	1907.6	17.32	18.70	1.374	-	-	0.06	0.768	1.055
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	ECI 1	9400	1880	17.35	18.70	1.365	-	-	-0.09	0.464	0.633
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 4	ECI 1	9400	1880	17.35	18.70	1.365	-	-	0.12	0.502	0.685
13	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	18900	1880	17.93	19.00	1.279	-	-	-0.03	0.839	1.073
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	18700	1860	17.90	19.00	1.288	-	-	-0.05	0.789	1.016
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	19100	1900	17.83	19.00	1.309	-	-	-0.08	0.809	1.059
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	18900	1880	17.88	19.00	1.294	-	-	0.16	0.811	1.050
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	18700	1860	17.87	19.00	1.297	-	-	0.05	0.798	1.035
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	19100	1900	17.79	19.00	1.321	-	-	0.05	0.796	1.052
	LTE Band 2	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 1	18900	1880	17.85	19.00	1.303	-	-	-0.03	0.813	1.059
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	18900	1880	17.93	19.00	1.279	-	-	-0.15	0.734	0.939
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	18700	1860	17.90	19.00	1.288	-	-	0.02	0.698	0.899
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	19100	1900	17.83	19.00	1.309	-	-	0.07	0.719	0.941
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	18900	1880	17.88	19.00	1.294	-	-	0.16	0.753	0.975
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	18700	1860	17.87	19.00	1.297	-	-	0.13	0.714	0.926
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	19100	1900	17.79	19.00	1.321	-	-	-0.18	0.725	0.958
	LTE Band 2	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	ECI 1	18900	1880	17.85	19.00	1.303	-	-	0.02	0.748	0.975
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 1	18900	1880	17.93	19.00	1.279	-	-	0.16	0.490	0.627
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 1	18900	1880	17.88	19.00	1.294	-	-	-0.08	0.490	0.634
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 1	18900	1880	17.93	19.00	1.279	-	-	-0.04	0.513	0.656
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 1	18900	1880	17.88	19.00	1.294	-	-	-0.1	0.513	0.664
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI 1	18900	1880	24.54	25.50	1.247	-	-	0.04	0.158	0.197



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	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI 1	18900	1880	23.58	24.50	1.236	-	-	-0.01	0.127	0.157
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI 1	18900	1880	24.54	25.50	1.247	-	-	-0.08	0.095	0.119
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI 1	18900	1880	23.58	24.50	1.236	-	-	0.05	0.077	0.095
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 1	18900	1880	24.54	25.50	1.247	-	-	0.06	0.223	0.278
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI 1	18900	1880	23.58	24.50	1.236	-	-	-0.09	0.172	0.213
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI 1	18900	1880	24.54	25.50	1.247	-	-	-0.08	0.133	0.166
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI 1	18900	1880	23.58	24.50	1.236	-	-	0.13	0.101	0.125
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	18900	1880	16.70	18.00	1.349	-	-	0.04	0.644	0.869
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	18700	1860	16.56	18.00	1.393	-	-	-0.17	0.603	0.840
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	19100	1900	16.68	18.00	1.355	-	-	-0.03	0.611	0.828
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	18900	1880	16.67	18.00	1.358	-	-	0.12	0.621	0.844
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	18700	1860	16.53	18.00	1.403	-	-	0.14	0.601	0.843
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	19100	1900	16.64	18.00	1.368	-	-	0.11	0.588	0.804
	LTE Band 2	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	ECI 1	18900	1880	16.66	18.00	1.361	-	-	-0.05	0.578	0.787
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI 1	18900	1880	16.70	18.00	1.349	-	-	0.03	0.183	0.247
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI 1	18900	1880	16.67	18.00	1.358	-	-	0.18	0.192	0.261
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI 1	18900	1880	16.70	18.00	1.349	-	-	0.16	0.179	0.241
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI 1	18900	1880	16.67	18.00	1.358	-	-	-0.1	0.188	0.255
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI 1	18900	1880	16.70	18.00	1.349	-	-	0.07	0.081	0.109
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI 1	18900	1880	16.67	18.00	1.358	-	-	0.18	0.085	0.115
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	18900	1880	17.94	19.50	1.432	-	-	0.1	0.127	0.182
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	18900	1880	17.87	19.50	1.455	-	-	-0.18	0.104	0.151
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI 1	18900	1880	17.94	19.50	1.432	-	-	0.1	0.042	0.060
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI 1	18900	1880	17.87	19.50	1.455	-	-	0.12	0.037	0.054
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 1	18900	1880	17.94	19.50	1.432	-	-	0.08	0.650	0.931
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 1	18700	1860	17.87	19.50	1.455	-	-	0.01	0.683	0.994
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 1	19100	1900	17.82	19.50	1.472	-	-	-0.17	0.629	0.926
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 1	18900	1880	17.87	19.50	1.455	-	-	-0.03	0.613	0.892
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 1	18700	1860	17.76	19.50	1.493	-	-	0.14	0.591	0.882
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 1	19100	1900	17.77	19.50	1.489	-	-	0.11	0.563	0.839
	LTE Band 2	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 5	ECI 1	18900	1880	17.81	19.50	1.476	-	-	-0.05	0.574	0.847
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 1	18900	1880	17.94	19.50	1.432	-	-	0.18	0.061	0.087
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI 1	18900	1880	17.87	19.50	1.455	-	-	0.14	0.051	0.074
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	376000	1880	18.58	19.00	1.102	-	-	-0.07	0.829	0.913
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	372000	1860	18.37	19.00	1.156	-	-	0.08	0.765	0.884
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	380000	1900	18.34	19.00	1.164	-	-	0.01	0.745	0.867
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	376000	1880	18.52	19.00	1.117	-	-	-0.01	0.809	0.904
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	372000	1860	18.36	19.00	1.159	-	-	-0.06	0.765	0.886
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	380000	1900	18.32	19.00	1.169	-	-	-0.04	0.774	0.905
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	376000	1880	18.43	19.00	1.140	-	-	-0.09	0.800	0.912
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 1	376000	1880	18.58	19.00	1.102	-	-	-0.17	0.709	0.781
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 1	376000	1880	18.52	19.00	1.117	-	-	-0.17	0.700	0.782
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 1	376000	1880	18.58	19.00	1.102	-	-	-0.13	0.465	0.512
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 1	376000	1880	18.52	19.00	1.117	-	-	-0.01	0.470	0.525
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 1	376000	1880	18.58	19.00	1.102	-	-	-0.09	0.485	0.534
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 1	376000	1880	18.52	19.00	1.117	-	-	0.05	0.494	0.552
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI 1	376000	1880	24.85	25.70	1.216	-	-	-0.16	0.166	0.202
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI 1	376000	1880	24.64	25.70	1.276	-	-	-0.02	0.166	0.212
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI 1	376000	1880	24.85	25.70	1.216	-	-	0.15	0.097	0.118
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI 1	376000	1880	24.64	25.70	1.276	-	-	-0.09	0.099	0.126
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI 1	376000	1880	24.85	25.70	1.216	-	-	0.1	0.198	0.241
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI 1	376000	1880	24.64	25.70	1.276	-	-	-0.05	0.177	0.226
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI 1	376000	1880	24.85	25.70	1.216	-	-	-0.08	0.129	0.157
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI 1	376000	1880	24.64	25.70	1.276	-	-	0.16	0.115	0.147
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	376000	1880	16.49	17.50	1.262	-	-	0.02	0.636	0.803
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	372000	1860	16.37	17.50	1.297	-	-	-0.13	0.647	0.839



FCC SAR Test Report

Report No. : FA4O0803

	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	380000	1900	16.35	17.50	1.303	-	-	0.17	0.616	0.803
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	376000	1880	16.47	17.50	1.268	-	-	0.06	0.652	0.827
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	372000	1860	16.37	17.50	1.297	-	-	-0.01	0.687	0.891
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	380000	1900	16.36	17.50	1.300	-	-	-0.04	0.716	0.931
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	376000	1880	16.41	17.50	1.285	-	-	-0.15	0.642	0.825
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI 1	376000	1880	16.49	17.50	1.262	-	-	0.11	0.148	0.187
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI 1	376000	1880	16.47	17.50	1.268	-	-	0.04	0.169	0.214
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI 1	376000	1880	16.49	17.50	1.262	-	-	-0.16	0.150	0.189
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI 1	376000	1880	16.47	17.50	1.268	-	-	-0.14	0.171	0.217
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI 1	376000	1880	16.49	17.50	1.262	-	-	0.02	0.066	0.083
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI 1	376000	1880	16.47	17.50	1.268	-	-	0.12	0.075	0.095
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI 1	376000	1880	19.05	20.00	1.245	-	-	0.08	0.356	0.443
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI 1	376000	1880	19.03	20.00	1.250	-	-	-0.17	0.348	0.435
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI 1	376000	1880	19.05	20.00	1.245	-	-	-0.03	0.115	0.143
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI 1	376000	1880	19.03	20.00	1.250	-	-	0.14	0.118	0.148
14	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	376000	1880	19.05	20.00	1.245	-	-	0.14	0.748	0.931
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	372000	1860	18.85	20.00	1.303	-	-	0.08	0.704	0.917
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	380000	1900	18.86	20.00	1.300	-	-	0.01	0.690	0.897
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	376000	1880	19.03	20.00	1.250	-	-	0.03	0.741	0.926
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	372000	1860	18.87	20.00	1.297	-	-	-0.08	0.703	0.912
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	380000	1900	18.92	20.00	1.282	-	-	-0.08	0.640	0.821
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	376000	1880	18.93	20.00	1.279	-	-	0.1	0.718	0.919
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI 1	376000	1880	19.05	20.00	1.245	-	-	-0.18	0.164	0.204
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI 1	376000	1880	19.03	20.00	1.250	-	-	0.1	0.165	0.206
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	376000	1880	19.05	20.00	1.245	-	-	0.12	0.326	0.406
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	21100	2535	16.72	17.20	1.117	-	-	0.02	0.779	0.870
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	20850	2510	16.60	17.20	1.148	-	-	0.08	0.724	0.831
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	21350	2560	16.65	17.20	1.135	-	-	0.01	0.756	0.858
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	21100	2535	16.69	17.20	1.125	-	-	0.03	0.768	0.864
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	20850	2510	16.46	17.20	1.186	-	-	-0.08	0.732	0.868
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	21350	2560	16.52	17.20	1.169	-	-	-0.08	0.736	0.861
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 1	21100	2535	16.66	17.20	1.132	-	-	0.1	0.726	0.822
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	21100	2535	16.72	17.20	1.117	-	-	-0.18	0.647	0.723
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	21100	2535	16.69	17.20	1.125	-	-	0.08	0.665	0.748
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 1	21100	2535	16.72	17.20	1.117	-	-	0.11	0.339	0.379
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 1	21100	2535	16.69	17.20	1.125	-	-	-0.05	0.352	0.396
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 1	21100	2535	16.72	17.20	1.117	-	-	0.18	0.330	0.369
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 1	21100	2535	16.69	17.20	1.125	-	-	0.14	0.344	0.387
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	21100	2535	16.55	17.20	1.161	-	-	0.01	0.722	0.839
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 4	ECI 1	21100+21298	2535+2554.8	16.50	17.20	1.175	-	-	0.06	0.725	0.852
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI 1	21100	2535	25.10	25.70	1.148	-	-	0.17	0.143	0.164
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI 1	21100	2535	24.13	24.70	1.140	-	-	-0.05	0.112	0.128
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI 1	21100	2535	25.10	25.70	1.148	-	-	0.01	0.177	0.203
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI 1	21100	2535	24.13	24.70	1.140	-	-	0.1	0.143	0.163
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 1	21100	2535	25.10	25.70	1.148	-	-	0.02	0.237	0.272
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI 1	21100	2535	24.13	24.70	1.140	-	-	-0.17	0.193	0.220
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI 1	21100	2535	25.10	25.70	1.148	-	-	0.04	0.098	0.113
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI 1	21100	2535	24.13	24.70	1.140	-	-	-0.01	0.073	0.083
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 1	21100	2535	24.54	25.50	1.247	-	-	-0.12	0.183	0.228
	LTE Band 7C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 2	ECI 1	21100+21298	2535+2554.8	25.05	25.70	1.161	-	-	0.02	0.215	0.250
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	21100	2535	18.66	20.00	1.361	-	-	0.05	0.552	0.752
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	21100	2535	18.64	20.00	1.368	-	-	-0.08	0.469	0.641
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI 1	21100	2535	18.66	20.00	1.361	-	-	0.18	0.181	0.246
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI 1	21100	2535	18.64	20.00	1.368	-	-	0.16	0.190	0.260
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI 1	21100	2535	18.66	20.00	1.361	-	-	-0.1	0.131	0.178



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	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI 1	21100	2535	18.64	20.00	1.368	-	-	0.07	0.136	0.186
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI 1	21100	2535	18.66	20.00	1.361	-	-	0.18	0.080	0.109
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI 1	21100	2535	18.64	20.00	1.368	-	-	-0.1	0.081	0.111
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	21100	2535	18.57	19.70	1.297	-	-	0.07	0.464	0.602
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 3	ECI 1	21100+ 21298	2535+ 2554.8	18.49	20.00	1.416	-	-	0.02	0.506	0.716
15	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	21100	2535	19.97	21.50	1.422	-	-	-0.07	0.677	0.963
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	20850	2510	19.93	21.50	1.435	-	-	-0.02	0.641	0.920
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	21350	2560	19.94	21.50	1.432	-	-	-0.05	0.662	0.948
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	21100	2535	19.94	21.50	1.432	-	-	-0.13	0.617	0.884
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	20850	2510	19.88	21.50	1.452	-	-	0.08	0.582	0.845
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	21350	2560	19.88	21.50	1.452	-	-	0.16	0.656	0.953
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	ECI 1	21100	2535	19.93	21.50	1.435	-	-	0.01	0.636	0.913
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI 1	21100	2535	19.97	21.50	1.422	-	-	-0.16	0.115	0.164
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI 1	21100	2535	19.94	21.50	1.432	-	-	0.1	0.112	0.160
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 1	21100	2535	19.97	21.50	1.422	-	-	-0.04	0.544	0.774
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 1	21100	2535	19.94	21.50	1.432	-	-	-0.11	0.536	0.768
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 1	21100	2535	19.97	21.50	1.422	-	-	-0.13	0.183	0.260
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI 1	21100	2535	19.94	21.50	1.432	-	-	0.16	0.192	0.275
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	21100	2535	19.75	21.00	1.334	-	-	-0.15	0.557	0.743
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 5	ECI 1	21100+ 21298	2535+ 2554.8	19.89	21.50	1.449	-	-	0.02	0.625	0.905
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	38000	2595	18.95	19.70	1.189	62.9	1.006	0.08	0.744	0.890
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	37850	2580	18.74	19.70	1.247	62.9	1.006	0.08	0.705	0.885
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	38150	2610	18.90	19.70	1.202	62.9	1.006	0.01	0.722	0.873
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	38000	2595	18.92	19.70	1.197	62.9	1.006	-0.08	0.745	0.897
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	37850	2580	18.62	19.70	1.282	62.9	1.006	0.03	0.651	0.840
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	38150	2610	18.75	19.70	1.245	62.9	1.006	-0.08	0.685	0.858
	LTE Band 38_Other PA	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 1	38000	2595	18.89	19.70	1.205	62.9	1.006	-0.08	0.700	0.849
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	38000	2595	18.95	19.70	1.189	62.9	1.006	-0.18	0.679	0.812
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	37850	2580	18.74	19.70	1.247	62.9	1.006	0.1	0.628	0.788
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	38150	2610	18.90	19.70	1.202	62.9	1.006	-0.18	0.666	0.806
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	38000	2595	18.92	19.70	1.197	62.9	1.006	0.1	0.683	0.822
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	37850	2580	18.62	19.70	1.282	62.9	1.006	0.1	0.624	0.805
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	38150	2610	18.75	19.70	1.245	62.9	1.006	0.12	0.638	0.799
	LTE Band 38_Other PA	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	ECI 1	38000	2595	18.89	19.70	1.205	62.9	1.006	0.08	0.616	0.747
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 1	38000	2595	18.95	19.70	1.189	62.9	1.006	0.12	0.322	0.385
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 1	38000	2595	18.92	19.70	1.197	62.9	1.006	0.08	0.324	0.390
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 1	38000	2595	18.95	19.70	1.189	62.9	1.006	-0.17	0.370	0.442
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 1	38000	2595	18.92	19.70	1.197	62.9	1.006	-0.03	0.367	0.442
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	38000	2595	16.94	17.70	1.191	62.9	1.006	-0.04	0.564	0.676
	LTE Band 38C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 4	ECI 1	37901+ 38099	2585.1+ 2604.9	16.85	17.70	1.216	62.9	1.006	0.01	0.535	0.655
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI 1	38000	2595	24.94	25.70	1.191	62.9	1.006	0.08	0.099	0.119
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI 1	38000	2595	23.96	24.70	1.186	62.9	1.006	-0.17	0.085	0.101
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI 1	38000	2595	24.94	25.70	1.191	62.9	1.006	-0.03	0.100	0.120
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI 1	38000	2595	23.96	24.70	1.186	62.9	1.006	0.14	0.082	0.098
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 1	38000	2595	24.94	25.70	1.191	62.9	1.006	0.11	0.198	0.237
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI 1	38000	2595	23.96	24.70	1.186	62.9	1.006	-0.05	0.170	0.203
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI 1	38000	2595	24.94	25.70	1.191	62.9	1.006	0.18	0.072	0.086
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI 1	38000	2595	23.96	24.70	1.186	62.9	1.006	0.14	0.059	0.070
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 1	38000	2595	24.33	25.50	1.309	62.9	1.006	-0.17	0.178	0.234
	LTE Band 38C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 2	ECI 1	37901+ 38099	2585.1+ 2604.9	24.85	25.70	1.216	62.9	1.006	0.02	0.179	0.219
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	38000	2595	18.69	20.20	1.416	62.9	1.006	0.06	0.668	0.951
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	37850	2580	18.66	20.20	1.426	62.9	1.006	-0.17	0.645	0.925
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	38150	2610	18.65	20.20	1.429	62.9	1.006	-0.03	0.638	0.917
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	38000	2595	18.66	20.20	1.426	62.9	1.006	0.03	0.678	0.972
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	37850	2580	18.53	20.20	1.469	62.9	1.006	0.14	0.648	0.958



FCC SAR Test Report

Report No. : FA4O0803

	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	38150	2610	18.63	20.20	1.435	62.9	1.006	0.11	0.639	0.923
	LTE Band 38_Other PA	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	ECI 1	38000	2595	18.63	20.20	1.435	62.9	1.006	-0.05	0.641	0.926
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI 1	38000	2595	18.69	20.20	1.416	62.9	1.006	-0.03	0.248	0.353
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI 1	38000	2595	18.66	20.20	1.426	62.9	1.006	0.08	0.255	0.366
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI 1	38000	2595	18.69	20.20	1.416	62.9	1.006	-0.07	0.173	0.246
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI 1	38000	2595	18.66	20.20	1.426	62.9	1.006	0.05	0.184	0.264
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI 1	38000	2595	18.69	20.20	1.416	62.9	1.006	-0.11	0.108	0.154
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI 1	38000	2595	18.66	20.20	1.426	62.9	1.006	-0.12	0.112	0.161
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	38000	2595	19.16	20.50	1.361	62.9	1.006	0.03	0.497	0.681
	LTE Band 38C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 3	ECI 1	37901+38099	2585.1+2604.9	18.93	20.50	1.435	62.9	1.006	0.02	0.466	0.673
16	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	38000	2595	22.24	23.50	1.337	62.9	1.006	-0.04	0.798	1.073
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	37850	2580	22.21	23.50	1.346	62.9	1.006	0.18	0.783	1.060
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	38150	2610	22.18	23.50	1.355	62.9	1.006	0.14	0.769	1.048
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	38000	2595	21.29	22.50	1.321	62.9	1.006	-0.13	0.664	0.883
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	37850	2580	21.25	22.50	1.334	62.9	1.006	0.18	0.645	0.865
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	38150	2610	21.24	22.50	1.337	62.9	1.006	0.14	0.639	0.859
	LTE Band 38_Other PA	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	ECI 1	38000	2595	21.26	22.50	1.330	62.9	1.006	-0.17	0.654	0.875
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI 1	38000	2595	22.24	23.50	1.337	62.9	1.006	0.06	0.149	0.200
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI 1	38000	2595	21.29	22.50	1.321	62.9	1.006	-0.03	0.124	0.165
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 1	38000	2595	22.24	23.50	1.337	62.9	1.006	-0.03	0.549	0.738
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 1	38000	2595	21.29	22.50	1.321	62.9	1.006	0.08	0.461	0.613
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 1	38000	2595	22.24	23.50	1.337	62.9	1.006	-0.07	0.236	0.317
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI 1	38000	2595	21.29	22.50	1.321	62.9	1.006	0.05	0.194	0.258
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	38000	2595	22.27	23.50	1.327	62.9	1.006	-0.04	0.691	0.923
	LTE Band 38C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 5	ECI 1	37901+38099	2585.1+2604.9	21.89	23.50	1.449	62.9	1.006	0.06	0.612	0.892
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	40620	2593	18.87	19.70	1.211	62.9	1.006	0.14	0.697	0.849
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	39750	2506	18.75	19.70	1.245	62.9	1.006	-0.05	0.626	0.784
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	40185	2549.5	18.78	19.70	1.236	62.9	1.006	0.18	0.634	0.788
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	41055	2636.5	18.69	19.70	1.262	62.9	1.006	0.14	0.650	0.825
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	41490	2680	18.77	19.70	1.239	62.9	1.006	-0.17	0.706	0.880
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	40620	2593	18.76	19.70	1.242	62.9	1.006	0.17	0.702	0.877
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	39750	2506	18.71	19.70	1.256	62.9	1.006	0.01	0.608	0.768
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	40185	2549.5	18.70	19.70	1.259	62.9	1.006	0.1	0.576	0.729
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	41055	2636.5	18.69	19.70	1.262	62.9	1.006	-0.17	0.659	0.837
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	41490	2680	18.61	19.70	1.285	62.9	1.006	-0.08	0.711	0.919
	LTE Band 41_Other PA	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 1	40620	2593	18.80	19.70	1.230	62.9	1.006	0.04	0.689	0.853
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	40620	2593	18.87	19.70	1.211	62.9	1.006	-0.01	0.630	0.767
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	39750	2506	18.75	19.70	1.245	62.9	1.006	-0.17	0.615	0.770
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	40185	2549.5	18.78	19.70	1.236	62.9	1.006	0.17	0.588	0.731
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	41055	2636.5	18.69	19.70	1.262	62.9	1.006	-0.05	0.596	0.757
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 1	41490	2680	18.77	19.70	1.239	62.9	1.006	0.01	0.575	0.717
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	40620	2593	18.76	19.70	1.242	62.9	1.006	0.13	0.632	0.789
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	39750	2506	18.71	19.70	1.256	62.9	1.006	0.1	0.614	0.776
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	40185	2549.5	18.70	19.70	1.259	62.9	1.006	-0.17	0.598	0.757
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	41055	2636.5	18.69	19.70	1.262	62.9	1.006	0.04	0.606	0.769
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 1	41490	2680	18.61	19.70	1.285	62.9	1.006	-0.01	0.610	0.789
	LTE Band 41_Other PA	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	ECI 1	40620	2593	18.80	19.70	1.230	62.9	1.006	-0.08	0.589	0.729
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 1	40620	2593	18.87	19.70	1.211	62.9	1.006	0.18	0.306	0.373
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 1	40620	2593	18.76	19.70	1.242	62.9	1.006	-0.1	0.306	0.382
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 1	40620	2593	18.87	19.70	1.211	62.9	1.006	0.01	0.347	0.423
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 1	40620	2593	18.76	19.70	1.242	62.9	1.006	-0.15	0.343	0.428
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 1	41490	2680	16.94	17.70	1.191	62.9	1.006	-0.08	0.551	0.660
	LTE Band 41C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	41490+41292	2680+2660.2	16.57	17.70	1.297	62.9	1.006	0.03	0.489	0.638
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI 1	40620	2593	24.96	25.70	1.186	62.9	1.006	-0.09	0.098	0.117
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI 1	40620	2593	24.00	24.70	1.175	62.9	1.006	0.11	0.083	0.098



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	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI 1	40620	2593	24.96	25.70	1.186	62.9	1.006	-0.05	0.101	0.120
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI 1	40620	2593	24.00	24.70	1.175	62.9	1.006	-0.08	0.081	0.096
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 1	40620	2593	24.96	25.70	1.186	62.9	1.006	0.16	0.194	0.231
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI 1	40620	2593	24.00	24.70	1.175	62.9	1.006	0.05	0.165	0.195
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI 1	40620	2593	24.96	25.70	1.186	62.9	1.006	0.05	0.071	0.085
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI 1	40620	2593	24.00	24.70	1.175	62.9	1.006	-0.03	0.060	0.071
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 1	40620	2593	24.55	25.50	1.245	62.9	1.006	-0.15	0.180	0.225
	LTE Band 41C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 2	ECI 1	40620+40818	2593+2612.8	24.82	25.70	1.225	62.9	1.006	0.01	0.178	0.219
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	40620	2593	19.08	20.70	1.452	62.9	1.006	-0.04	0.646	0.944
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	39750	2506	18.86	20.70	1.528	62.9	1.006	0.17	0.624	0.959
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	40185	2549.5	19.07	20.70	1.455	62.9	1.006	-0.05	0.600	0.879
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	41055	2636.5	19.02	20.70	1.472	62.9	1.006	0.01	0.587	0.869
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 1	41490	2680	18.98	20.70	1.486	62.9	1.006	0.1	0.564	0.843
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	40620	2593	19.05	20.70	1.462	62.9	1.006	-0.04	0.667	0.981
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	39750	2506	18.75	20.70	1.567	62.9	1.006	-0.17	0.613	0.966
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	40185	2549.5	18.98	20.70	1.486	62.9	1.006	0.04	0.635	0.949
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	41055	2636.5	18.90	20.70	1.514	62.9	1.006	-0.01	0.620	0.944
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	41490	2680	18.91	20.70	1.510	62.9	1.006	-0.08	0.615	0.934
	LTE Band 41_Other PA	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	ECI 1	40620	2593	19.03	20.70	1.469	62.9	1.006	0.05	0.601	0.888
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI 1	40620	2593	19.08	20.70	1.452	62.9	1.006	0.17	0.248	0.362
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI 1	40620	2593	19.05	20.70	1.462	62.9	1.006	0.18	0.244	0.359
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI 1	40620	2593	19.08	20.70	1.452	62.9	1.006	-0.04	0.171	0.250
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI 1	40620	2593	19.05	20.70	1.462	62.9	1.006	-0.08	0.178	0.262
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI 1	40620	2593	19.08	20.70	1.452	62.9	1.006	-0.13	0.107	0.156
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI 1	40620	2593	19.05	20.70	1.462	62.9	1.006	-0.13	0.100	0.147
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 1	40620	2593	19.17	20.50	1.358	62.9	1.006	-0.04	0.498	0.680
	LTE Band 41C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 3	ECI 1	40620+40818	2593+2612.8	18.97	20.50	1.422	62.9	1.006	0.01	0.445	0.637
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	40620	2593	20.84	22.50	1.466	62.9	1.006	0.17	0.593	0.874
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	39750	2506	20.63	22.50	1.538	62.9	1.006	0.01	0.560	0.867
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	40185	2549.5	20.77	22.50	1.489	62.9	1.006	0.1	0.539	0.808
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	41055	2636.5	20.62	22.50	1.542	62.9	1.006	-0.17	0.678	1.052
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 1	41490	2680	20.62	22.50	1.542	62.9	1.006	0.04	0.688	1.067
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	40620	2593	20.82	22.50	1.472	62.9	1.006	-0.01	0.605	0.896
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	39750	2506	20.67	22.50	1.524	62.9	1.006	0.05	0.637	0.977
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	40185	2549.5	20.70	22.50	1.514	62.9	1.006	0.06	0.655	0.997
17	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	41055	2636.5	20.63	22.50	1.538	62.9	1.006	-0.01	0.693	1.072
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	41490	2680	20.63	22.50	1.538	62.9	1.006	-0.09	0.681	1.054
	LTE Band 41_Other PA	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	ECI 1	40620	2593	20.82	22.50	1.472	62.9	1.006	-0.08	0.626	0.927
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI 1	40620	2593	20.84	22.50	1.466	62.9	1.006	0.13	0.090	0.133
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI 1	40620	2593	20.82	22.50	1.472	62.9	1.006	0.12	0.091	0.135
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 1	40620	2593	20.84	22.50	1.466	62.9	1.006	0.03	0.406	0.599
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 1	40620	2593	20.82	22.50	1.472	62.9	1.006	0.18	0.385	0.570
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 1	40620	2593	20.84	22.50	1.466	62.9	1.006	0.16	0.165	0.243
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI 1	40620	2593	20.82	22.50	1.472	62.9	1.006	-0.1	0.164	0.243
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 1	41055	2636.5	18.49	20.00	1.416	62.9	1.006	-0.01	0.645	0.919
	LTE Band 41C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 5	ECI 1	41055+41253	2636.5+2656.3	18.32	20.00	1.472	62.9	1.006	0.06	0.606	0.898
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	507000	2535	17.11	17.20	1.021	-	-	0.17	0.615	0.628
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI 1	507000	2535	17.05	17.20	1.035	-	-	0.02	0.688	0.712
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 1	507000	2535	17.11	17.20	1.021	-	-	0.01	0.502	0.513
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI 1	507000	2535	17.05	17.20	1.035	-	-	0.1	0.574	0.594
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 1	507000	2535	17.11	17.20	1.021	-	-	0.04	0.296	0.302
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI 1	507000	2535	17.05	17.20	1.035	-	-	-0.01	0.310	0.321
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 1	507000	2535	17.11	17.20	1.021	-	-	-0.08	0.265	0.271
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI 1	507000	2535	17.05	17.20	1.035	-	-	0.05	0.287	0.297
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI 1	507000	2535	24.84	25.70	1.219	-	-	-0.17	0.165	0.201



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	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI 1	507000	2535	24.76	25.70	1.242	-	-	-0.03	0.164	0.204
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI 1	507000	2535	24.84	25.70	1.219	-	-	0.14	0.194	0.236
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI 1	507000	2535	24.76	25.70	1.242	-	-	0.11	0.219	0.272
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI 1	507000	2535	24.84	25.70	1.219	-	-	-0.05	0.275	0.335
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI 1	507000	2535	24.76	25.70	1.242	-	-	0.18	0.298	0.370
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI 1	507000	2535	24.84	25.70	1.219	-	-	0.14	0.114	0.139
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI 1	507000	2535	24.76	25.70	1.242	-	-	-0.17	0.124	0.154
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	507000	2535	18.81	19.70	1.227	-	-	0.06	0.716	0.879
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	507000	2535	18.79	19.70	1.233	-	-	-0.07	0.828	1.021
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	507000	2535	18.74	19.70	1.247	-	-	-0.09	0.808	1.008
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI 1	507000	2535	18.81	19.70	1.227	-	-	-0.08	0.263	0.323
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI 1	507000	2535	18.79	19.70	1.233	-	-	0.13	0.280	0.345
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI 1	507000	2535	18.81	19.70	1.227	-	-	0.12	0.197	0.242
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI 1	507000	2535	18.79	19.70	1.233	-	-	0.03	0.224	0.276
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI 1	507000	2535	18.81	19.70	1.227	-	-	0.18	0.116	0.142
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI 1	507000	2535	18.79	19.70	1.233	-	-	0.16	0.131	0.162
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI 1	507000	2535	18.69	20.00	1.352	-	-	0.08	0.691	0.934
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI 1	507000	2535	18.67	20.00	1.358	-	-	0.01	0.741	1.007
18	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI 1	507000	2535	18.56	20.00	1.393	-	-	0.15	0.743	1.035
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI 1	507000	2535	18.69	20.00	1.352	-	-	-0.08	0.148	0.200
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI 1	507000	2535	18.67	20.00	1.358	-	-	-0.08	0.140	0.190
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	507000	2535	18.69	20.00	1.352	-	-	0.1	0.464	0.627
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI 1	507000	2535	18.67	20.00	1.358	-	-	-0.18	0.531	0.721
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI 1	507000	2535	18.69	20.00	1.352	-	-	0.12	0.202	0.273
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI 1	507000	2535	18.67	20.00	1.358	-	-	0.08	0.216	0.293
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI 1	519000	2595	17.15	17.20	1.012	-	-	-0.16	0.779	0.788
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI 1	519000	2595	17.13	17.20	1.016	-	-	0.17	0.745	0.757
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	ECI 1	519000	2595	17.15	17.20	1.012	-	-	0.01	0.688	0.696
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	ECI 1	519000	2595	17.13	17.20	1.016	-	-	0.1	0.656	0.667
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	ECI 1	519000	2595	17.15	17.20	1.012	-	-	0.04	0.347	0.351
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	ECI 1	519000	2595	17.13	17.20	1.016	-	-	-0.01	0.328	0.333
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	ECI 1	519000	2595	17.15	17.20	1.012	-	-	-0.08	0.351	0.355
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	ECI 1	519000	2595	17.13	17.20	1.016	-	-	0.05	0.329	0.334
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	ECI 1	519000	2595	25.15	25.70	1.135	-	-	0.06	0.159	0.180
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	ECI 1	519000	2595	24.83	25.70	1.222	-	-	-0.09	0.138	0.169
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	ECI 1	519000	2595	25.15	25.70	1.135	-	-	-0.08	0.156	0.177
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	ECI 1	519000	2595	24.83	25.70	1.222	-	-	0.13	0.137	0.167
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	ECI 1	519000	2595	25.15	25.70	1.135	-	-	-0.06	0.272	0.309
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	ECI 1	519000	2595	24.83	25.70	1.222	-	-	0.03	0.240	0.293
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	ECI 1	519000	2595	25.15	25.70	1.135	-	-	0.18	0.092	0.104
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	ECI 1	519000	2595	24.83	25.70	1.222	-	-	0.16	0.076	0.093
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI 1	519000	2595	17.55	18.50	1.245	-	-	-0.1	0.709	0.882
19	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI 1	519000	2595	17.52	18.50	1.253	-	-	0.05	0.741	0.929
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI 1	519000	2595	17.50	18.50	1.259	-	-	0.06	0.706	0.889
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	ECI 1	519000	2595	17.55	18.50	1.245	-	-	0.07	0.242	0.301
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	ECI 1	519000	2595	17.52	18.50	1.253	-	-	0.18	0.262	0.328
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	ECI 1	519000	2595	17.55	18.50	1.245	-	-	-0.1	0.191	0.238
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	ECI 1	519000	2595	17.52	18.50	1.253	-	-	0.01	0.203	0.254
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	ECI 1	519000	2595	17.55	18.50	1.245	-	-	-0.15	0.107	0.133
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	ECI 1	519000	2595	17.52	18.50	1.253	-	-	0.19	0.116	0.145
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI 1	519000	2595	19.53	20.50	1.250	-	-	0.07	0.697	0.871
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI 1	519000	2595	19.51	20.50	1.256	-	-	0.13	0.726	0.912
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI 1	519000	2595	19.41	20.50	1.285	-	-	-0.18	0.706	0.907
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI 1	519000	2595	19.53	20.50	1.250	-	-	0.03	0.114	0.143
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI 1	519000	2595	19.51	20.50	1.256	-	-	-0.15	0.111	0.139
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	ECI 1	519000	2595	19.53	20.50	1.250	-	-	-0.15	0.363	0.454



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	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	ECI 1	519000	2595	19.51	20.50	1.256	-	-	0.11	0.413	0.519
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	ECI 1	519000	2595	19.53	20.50	1.250	-	-	-0.17	0.147	0.184
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	ECI 1	519000	2595	19.51	20.50	1.256	-	-	-0.08	0.172	0.216
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI 1	518598	2592.99	16.33	17.00	1.167	-	-	0.1	0.756	0.882
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI 1	518598	2592.99	16.28	17.00	1.180	-	-	-0.09	0.741	0.875
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI 1	518598	2592.99	16.24	17.00	1.191	-	-	0.02	0.716	0.853
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	ECI 1	518598	2592.99	16.33	17.00	1.167	-	-	-0.09	0.565	0.659
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	ECI 1	518598	2592.99	16.28	17.00	1.180	-	-	-0.16	0.560	0.661
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	ECI 1	518598	2592.99	16.33	17.00	1.167	-	-	-0.07	0.308	0.359
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	ECI 1	518598	2592.99	16.28	17.00	1.180	-	-	0.11	0.276	0.326
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	ECI 1	518598	2592.99	16.33	17.00	1.167	-	-	-0.08	0.282	0.329
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	ECI 1	518598	2592.99	16.28	17.00	1.180	-	-	-0.1	0.279	0.329
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI 1	518598	2592.99	19.39	20.00	1.151	50	1.000	-0.05	0.826	0.951
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	ECI 1	518598	2592.99	23.29	25.00	1.483	-	-	-0.06	0.095	0.141
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	ECI 1	518598	2592.99	23.27	25.00	1.489	-	-	-0.15	0.079	0.118
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	ECI 1	518598	2592.99	23.29	25.00	1.483	-	-	0.03	0.094	0.139
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	ECI 1	518598	2592.99	23.27	25.00	1.489	-	-	-0.13	0.076	0.113
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	ECI 1	518598	2592.99	23.29	25.00	1.483	-	-	0.16	0.192	0.285
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	ECI 1	518598	2592.99	23.27	25.00	1.489	-	-	-0.15	0.145	0.216
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	ECI 1	518598	2592.99	23.29	25.00	1.483	-	-	-0.02	0.061	0.090
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	ECI 1	518598	2592.99	23.27	25.00	1.489	-	-	-0.09	0.043	0.064
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	ECI 1	518598	2592.99	26.05	27.50	1.396	50	1.000	0.01	0.196	0.274
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI 1	518598	2592.99	16.71	18.00	1.346	-	-	0.16	0.650	0.875
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI 1	518598	2592.99	16.68	18.00	1.355	-	-	0.01	0.698	0.946
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI 1	518598	2592.99	16.64	18.00	1.368	-	-	0.03	0.648	0.886
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	ECI 1	518598	2592.99	16.71	18.00	1.346	-	-	-0.16	0.155	0.209
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	ECI 1	518598	2592.99	16.68	18.00	1.355	-	-	0.1	0.206	0.279
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	ECI 1	518598	2592.99	16.71	18.00	1.346	-	-	-0.04	0.128	0.172
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	ECI 1	518598	2592.99	16.68	18.00	1.355	-	-	-0.01	0.158	0.214
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	ECI 1	518598	2592.99	16.71	18.00	1.346	-	-	0.05	0.070	0.094
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	ECI 1	518598	2592.99	16.68	18.00	1.355	-	-	-0.11	0.088	0.119
20	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI 1	518598	2592.99	19.72	21.00	1.343	50	1.000	0.12	0.762	1.023
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI 1	518598	2592.99	17.07	18.50	1.390	-	-	0.02	0.646	0.898
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI 1	518598	2592.99	17.05	18.50	1.396	-	-	0.12	0.682	0.952
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI 1	518598	2592.99	17.00	18.50	1.413	-	-	-0.16	0.663	0.937
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI 1	518598	2592.99	17.07	18.50	1.390	-	-	-0.12	0.087	0.121
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI 1	518598	2592.99	17.05	18.50	1.396	-	-	0.07	0.079	0.110
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	ECI 1	518598	2592.99	17.07	18.50	1.390	-	-	-0.02	0.350	0.486
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	ECI 1	518598	2592.99	17.05	18.50	1.396	-	-	-0.05	0.339	0.473
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	ECI 1	518598	2592.99	17.07	18.50	1.390	-	-	-0.13	0.136	0.189
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	ECI 1	518598	2592.99	17.05	18.50	1.396	-	-	0.08	0.141	0.197
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI 1	518598	2592.99	20.02	21.50	1.406	50	1.000	-0.06	0.725	1.019
3500MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	ECI 1	42590	3500	20.18	20.70	1.127	62.9	1.006	0.08	0.506	0.574
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	ECI 1	42590	3500	20.16	20.70	1.132	62.9	1.006	0.01	0.521	0.594
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	ECI 1	42590	3500	20.18	20.70	1.127	62.9	1.006	0.03	0.703	0.797
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	ECI 1	42590	3500	20.16	20.70	1.132	62.9	1.006	-0.08	0.683	0.778
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI 1	42590	3500	20.18	20.70	1.127	62.9	1.006	-0.08	0.652	0.739
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI 1	42590	3500	20.16	20.70	1.132	62.9	1.006	0.1	0.663	0.755
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI 1	42590	3500	20.18	20.70	1.127	62.9	1.006	-0.11	0.897	1.017
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI 1	42190	3460	20.14	20.70	1.138	62.9	1.006	0.06	0.845	0.967
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI 1	42990	3540	20.14	20.70	1.138	62.9	1.006	-0.09	0.832	0.952
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI 1	42590	3500	20.16	20.70	1.132	62.9	1.006	-0.18	0.865	0.985
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI 1	42190	3460	19.98	20.70	1.180	62.9	1.006	-0.08	0.815	0.968
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI 1	42990	3540	19.99	20.70	1.178	62.9	1.006	0.13	0.823	0.975
	LTE Band 42	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 6	ECI 1	42590	3500	20.14	20.70	1.138	62.9	1.006	0.12	0.800	0.916



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	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	ECI 1	42590	3500	19.87	21.50	1.455	62.9	1.006	0.19	0.711	1.041
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	ECI 1	42190	3460	19.79	21.50	1.483	62.9	1.006	0.07	0.666	0.993
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	ECI 1	42990	3540	19.83	21.50	1.469	62.9	1.006	-0.18	0.671	0.992
21	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	ECI 1	42590	3500	19.82	21.50	1.472	62.9	1.006	-0.11	0.715	1.059
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	ECI 1	42190	3460	19.72	21.50	1.507	62.9	1.006	0.03	0.680	1.031
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	ECI 1	42990	3540	19.73	21.50	1.503	62.9	1.006	-0.15	0.674	1.019
	LTE Band 42	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 8	ECI 1	42590	3500	19.80	21.50	1.479	62.9	1.006	-0.15	0.709	1.055
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 8	ECI 1	42590	3500	19.87	21.50	1.455	62.9	1.006	0.11	0.439	0.643
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 8	ECI 1	42590	3500	19.82	21.50	1.472	62.9	1.006	-0.08	0.443	0.656
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	ECI 1	42590	3500	19.87	21.50	1.455	62.9	1.006	-0.17	0.161	0.236
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	ECI 1	42590	3500	19.82	21.50	1.472	62.9	1.006	-0.08	0.160	0.237
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	ECI 1	42590	3500	19.87	21.50	1.455	62.9	1.006	-0.04	0.160	0.234
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 8	ECI 1	42590	3500	19.82	21.50	1.472	62.9	1.006	-0.08	0.155	0.230
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI 1	42590	3500	19.22	20.50	1.343	62.9	1.006	0.1	0.145	0.196
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI 1	42590	3500	19.20	20.50	1.349	62.9	1.006	-0.17	0.147	0.199
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	ECI 1	42590	3500	19.22	20.50	1.343	62.9	1.006	0.04	0.127	0.172
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	ECI 1	42590	3500	19.20	20.50	1.349	62.9	1.006	-0.01	0.125	0.170
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI 1	42590	3500	19.22	20.50	1.343	62.9	1.006	0.09	0.558	0.754
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI 1	42590	3500	19.20	20.50	1.349	62.9	1.006	-0.08	0.554	0.752
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	ECI 1	42590	3500	19.22	20.50	1.343	62.9	1.006	0.05	0.338	0.457
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	ECI 1	42590	3500	19.20	20.50	1.349	62.9	1.006	0.06	0.351	0.476
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI 1	42590	3500	23.14	24.50	1.368	62.9	1.006	0.02	0.139	0.191
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	ECI 1	42590	3500	22.19	23.50	1.352	62.9	1.006	-0.08	0.110	0.150
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	ECI 1	42590	3500	23.14	24.50	1.368	62.9	1.006	0.13	0.112	0.154
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	ECI 1	42590	3500	22.19	23.50	1.352	62.9	1.006	0.12	0.090	0.122
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	ECI 1	42590	3500	23.14	24.50	1.368	62.9	1.006	0.03	0.053	0.073
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	ECI 1	42590	3500	22.19	23.50	1.352	62.9	1.006	0.18	0.039	0.053
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	ECI 1	42590	3500	23.14	24.50	1.368	62.9	1.006	0.16	0.052	0.072
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	ECI 1	42590	3500	22.19	23.50	1.352	62.9	1.006	-0.1	0.036	0.049
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	ECI 1	55830	3609	18.18	18.70	1.127	62.9	1.006	0.07	0.425	0.482
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	ECI 1	55830	3609	18.16	18.70	1.132	62.9	1.006	0.18	0.418	0.476
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	ECI 1	55830	3609	18.18	18.70	1.127	62.9	1.006	-0.1	0.600	0.680
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	ECI 1	55340	3560	18.12	18.70	1.143	62.9	1.006	0.18	0.588	0.676
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	ECI 1	56150	3641	18.14	18.70	1.138	62.9	1.006	0.16	0.556	0.636
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	ECI 1	56640	3690	18.10	18.70	1.148	62.9	1.006	-0.1	0.582	0.672
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	ECI 1	55830	3609	18.16	18.70	1.132	62.9	1.006	0.01	0.602	0.686
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	ECI 1	55340	3560	17.94	18.70	1.191	62.9	1.006	0.07	0.578	0.693
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	ECI 1	56150	3641	18.08	18.70	1.153	62.9	1.006	0.18	0.566	0.657
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	ECI 1	56640	3690	17.97	18.70	1.183	62.9	1.006	-0.1	0.561	0.668
	LTE Band 48	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 6	ECI 1	55830	3609	18.14	18.70	1.138	62.9	1.006	0.01	0.582	0.666
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI 1	55830	3609	18.18	18.70	1.127	62.9	1.006	-0.15	0.555	0.629
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI 1	55340	3560	18.12	18.70	1.143	62.9	1.006	-0.15	0.513	0.590
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI 1	56150	3641	18.14	18.70	1.138	62.9	1.006	0.19	0.526	0.602
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI 1	56640	3690	18.10	18.70	1.148	62.9	1.006	0.07	0.521	0.602
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI 1	55830	3609	18.16	18.70	1.132	62.9	1.006	0.19	0.557	0.635
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI 1	55340	3560	17.94	18.70	1.191	62.9	1.006	-0.18	0.548	0.657
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI 1	56150	3641	18.08	18.70	1.153	62.9	1.006	0.03	0.536	0.622
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI 1	56640	3690	17.97	18.70	1.183	62.9	1.006	-0.15	0.527	0.627
	LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 6	ECI 1	55830	3609	18.14	18.70	1.138	62.9	1.006	-0.15	0.524	0.600
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI 1	55830	3609	18.18	18.70	1.127	62.9	1.006	-0.03	0.745	0.845
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI 1	55340	3560	18.12	18.70	1.143	62.9	1.006	0.11	0.722	0.830
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI 1	56150	3641	18.14	18.70	1.138	62.9	1.006	-0.08	0.718	0.822
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI 1	56640	3690	18.10	18.70	1.148	62.9	1.006	-0.17	0.689	0.796
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI 1	55830	3609	18.16	18.70	1.132	62.9	1.006	0.07	0.723	0.824
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI 1	55340	3560	17.94	18.70	1.191	62.9	1.006	-0.08	0.700	0.839
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI 1	56150	3641	18.08	18.70	1.153	62.9	1.006	-0.04	0.688	0.798



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	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI 1	56640	3690	17.97	18.70	1.183	62.9	1.006	-0.08	0.679	0.808
	LTE Band 48	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 6	ECI 1	55830	3609	18.14	18.70	1.138	62.9	1.006	0.17	0.666	0.762
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	ECI 1	55830	3609	19.56	21.00	1.393	62.9	1.006	0.07	0.514	0.720
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	ECI 1	55340	3560	19.52	21.00	1.406	62.9	1.006	0.18	0.489	0.692
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	ECI 1	56150	3641	19.46	21.00	1.426	62.9	1.006	-0.04	0.479	0.687
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	ECI 1	56640	3690	19.48	21.00	1.419	62.9	1.006	-0.08	0.466	0.665
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	ECI 1	55830	3609	19.53	21.00	1.403	62.9	1.006	-0.13	0.499	0.704
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	ECI 1	55340	3560	19.47	21.00	1.422	62.9	1.006	-0.13	0.485	0.694
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	ECI 1	56150	3641	19.41	21.00	1.442	62.9	1.006	-0.13	0.469	0.680
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	ECI 1	56640	3690	19.31	21.00	1.476	62.9	1.006	0.06	0.458	0.680
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 8	ECI 1	55830	3609	19.49	21.00	1.416	62.9	1.006	-0.03	0.455	0.648
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 8	ECI 1	55830	3609	19.56	21.00	1.393	62.9	1.006	-0.13	0.318	0.446
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 8	ECI 1	55830	3609	19.53	21.00	1.403	62.9	1.006	0.06	0.327	0.461
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	ECI 1	55830	3609	19.56	21.00	1.393	62.9	1.006	-0.03	0.143	0.200
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	ECI 1	55830	3609	19.53	21.00	1.403	62.9	1.006	-0.03	0.131	0.185
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	ECI 1	55830	3609	19.56	21.00	1.393	62.9	1.006	0.08	0.111	0.156
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 8	ECI 1	55830	3609	19.53	21.00	1.403	62.9	1.006	-0.07	0.105	0.148
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI 1	55830	3609	17.20	18.50	1.349	62.9	1.006	-0.18	0.122	0.166
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI 1	55830	3609	17.15	18.50	1.365	62.9	1.006	0.03	0.125	0.172
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	ECI 1	55830	3609	17.20	18.50	1.349	62.9	1.006	-0.15	0.109	0.148
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	ECI 1	55830	3609	17.15	18.50	1.365	62.9	1.006	-0.15	0.106	0.146
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI 1	55830	3609	17.20	18.50	1.349	62.9	1.006	0.11	0.577	0.783
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI 1	55340	3560	17.07	18.50	1.390	62.9	1.006	-0.08	0.516	0.722
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI 1	56150	3641	17.08	18.50	1.387	62.9	1.006	-0.17	0.666	0.929
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI 1	56640	3690	17.06	18.50	1.393	62.9	1.006	-0.08	0.691	0.968
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI 1	55830	3609	17.15	18.50	1.365	62.9	1.006	-0.04	0.592	0.813
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI 1	55340	3560	16.98	18.50	1.419	62.9	1.006	-0.08	0.517	0.738
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI 1	56150	3641	16.95	18.50	1.429	62.9	1.006	0.17	0.644	0.926
22	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI 1	56640	3690	17.02	18.50	1.406	62.9	1.006	0.04	0.694	0.982
	LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 7	ECI 1	55830	3609	17.10	18.50	1.380	62.9	1.006	0.18	0.609	0.846
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	ECI 1	55830	3609	17.20	18.50	1.349	62.9	1.006	-0.04	0.309	0.419
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	ECI 1	55830	3609	17.15	18.50	1.365	62.9	1.006	-0.08	0.323	0.443
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI 1	55830	3609	23.11	24.50	1.377	62.9	1.006	0.01	0.111	0.154
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	ECI 1	55830	3609	22.15	23.50	1.365	62.9	1.006	0.05	0.096	0.132
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	ECI 1	55830	3609	23.11	24.50	1.377	62.9	1.006	-0.11	0.105	0.145
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	ECI 1	55830	3609	22.15	23.50	1.365	62.9	1.006	-0.12	0.089	0.122
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	ECI 1	55830	3609	23.11	24.50	1.377	62.9	1.006	0.03	0.051	0.071
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	ECI 1	55830	3609	22.15	23.50	1.365	62.9	1.006	-0.16	0.043	0.059
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	ECI 1	55830	3609	23.11	24.50	1.377	62.9	1.006	-0.02	0.052	0.072
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	ECI 1	55830	3609	22.15	23.50	1.365	62.9	1.006	0.15	0.041	0.056
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI 1	641666	3624.99	15.52	15.70	1.042	-	-	-0.09	0.465	0.485
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI 1	641666	3624.99	15.49	15.70	1.050	-	-	-0.06	0.465	0.488
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI 1	641666	3624.99	15.52	15.70	1.042	-	-	-0.17	0.641	0.668
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI 1	641666	3624.99	15.49	15.70	1.050	-	-	0.14	0.636	0.668
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI 1	641666	3624.99	15.52	15.70	1.042	-	-	-0.06	0.625	0.651
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI 1	641666	3624.99	15.49	15.70	1.050	-	-	0.05	0.613	0.643
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	641666	3624.99	15.52	15.70	1.042	-	-	0.16	0.822	0.857
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	638000	3570	15.38	15.70	1.076	-	-	0.05	0.832	0.896
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	645332	3679.98	15.46	15.70	1.057	-	-	-0.01	0.942	0.996
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	641666	3624.99	15.49	15.70	1.050	-	-	-0.13	0.816	0.856
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	638000	3570	15.38	15.70	1.076	-	-	-0.01	0.876	0.943
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	645332	3679.98	15.43	15.70	1.064	-	-	-0.11	0.912	0.970
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	641666	3624.99	15.45	15.70	1.059	-	-	0.19	0.817	0.865
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	641666	3624.99	14.75	15.50	1.189	-	-	0.01	0.294	0.349
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	641666	3624.99	14.71	15.50	1.199	-	-	-0.14	0.286	0.343
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI 1	641666	3624.99	14.75	15.50	1.189	-	-	-0.18	0.166	0.197



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	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI 1	641666	3624.99	14.71	15.50	1.199	-	-	-0.06	0.176	0.211
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI 1	641666	3624.99	14.75	15.50	1.189	-	-	0.02	0.072	0.086
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI 1	641666	3624.99	14.71	15.50	1.199	-	-	0.16	0.067	0.080
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI 1	641666	3624.99	14.75	15.50	1.189	-	-	0.01	0.061	0.072
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI 1	641666	3624.99	14.71	15.50	1.199	-	-	-0.04	0.064	0.077
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 1	641666	3624.99	15.61	16.50	1.227	-	-	0.13	0.140	0.172
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 1	641666	3624.99	15.58	16.50	1.236	-	-	0.12	0.152	0.188
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 1	641666	3624.99	15.61	16.50	1.227	-	-	0.07	0.128	0.157
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 1	641666	3624.99	15.58	16.50	1.236	-	-	0.08	0.128	0.158
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	641666	3624.99	15.61	16.50	1.227	-	-	0.19	0.677	0.831
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	638000	3570	15.48	16.50	1.265	-	-	-0.06	0.642	0.812
23	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	645332	3679.98	15.45	16.50	1.274	-	-	-0.04	0.807	1.028
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	641666	3624.99	15.58	16.50	1.236	-	-	-0.03	0.646	0.798
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	638000	3570	15.42	16.50	1.282	-	-	0.07	0.657	0.842
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	645332	3679.98	15.45	16.50	1.274	-	-	-0.12	0.758	0.965
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	641666	3624.99	15.56	16.50	1.242	-	-	-0.03	0.659	0.818
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 1	641666	3624.99	15.61	16.50	1.227	-	-	0.02	0.351	0.431
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 1	641666	3624.99	15.58	16.50	1.236	-	-	0.12	0.361	0.446
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	641666	3624.99	23.24	24.00	1.191	-	-	0.02	0.212	0.253
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	641666	3624.99	23.20	24.00	1.202	-	-	-0.01	0.217	0.261
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 1	641666	3624.99	23.24	24.00	1.191	-	-	0.08	0.190	0.226
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 1	641666	3624.99	23.20	24.00	1.202	-	-	-0.1	0.206	0.248
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 1	641666	3624.99	23.24	24.00	1.191	-	-	0.05	0.092	0.110
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 1	641666	3624.99	23.20	24.00	1.202	-	-	0.01	0.105	0.126
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 1	641666	3624.99	23.24	24.00	1.191	-	-	0.07	0.100	0.119
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 1	641666	3624.99	23.20	24.00	1.202	-	-	0.15	0.106	0.127
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI 1	656000	3840	15.88	17.00	1.294	-	-	-0.05	0.414	0.536
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI 1	656000	3840	15.83	17.00	1.309	-	-	-0.08	0.402	0.526
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI 1	656000	3840	15.88	17.00	1.294	-	-	-0.08	0.565	0.731
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI 1	656000	3840	15.83	17.00	1.309	-	-	-0.13	0.554	0.725
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI 1	656000	3840	15.88	17.00	1.294	-	-	-0.11	0.547	0.708
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI 1	656000	3840	15.83	17.00	1.309	-	-	0.03	0.521	0.682
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	656000	3840	15.88	17.00	1.294	-	-	0.14	0.761	0.985
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	656000	3840	15.83	17.00	1.309	-	-	-0.01	0.759	0.993
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	650000+ 656664	3750+ 3849.96	15.51	17.00	1.409	-	-	0.04	0.656	0.924
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	656000	3840	15.81	17.00	1.315	-	-	-0.12	0.685	0.901
24	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	656000	3840	18.95	20.00	1.274	50	1.000	0.01	0.839	1.068
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI 1	633332	3499.98	16.13	17.00	1.222	-	-	0.09	0.156	0.191
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI 1	633332	3499.98	16.10	17.00	1.230	-	-	0.04	0.205	0.252
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI 1	633332	3499.98	16.13	17.00	1.222	-	-	0.11	0.219	0.268
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI 1	633332	3499.98	16.10	17.00	1.230	-	-	-0.13	0.285	0.351
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI 1	633332	3499.98	16.13	17.00	1.222	-	-	0.12	0.213	0.260
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI 1	633332	3499.98	16.10	17.00	1.230	-	-	-0.11	0.264	0.325
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	633332	3499.98	16.13	17.00	1.222	-	-	0.17	0.375	0.458
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	633332	3499.98	16.10	17.00	1.230	-	-	-0.16	0.398	0.490
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	633332	3499.98	19.13	20.00	1.222	50	1.000	0.01	0.421	0.514
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	656000	3840	12.98	14.50	1.419	-	-	-0.05	0.417	0.592
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	656000	3840	12.90	14.50	1.445	-	-	-0.01	0.478	0.691
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	650000+ 656664	3750+ 3849.96	12.65	14.50	1.531	-	-	0.04	0.423	0.648
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI 1	656000	3840	12.98	14.50	1.419	-	-	-0.14	0.268	0.380
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI 1	656000	3840	12.90	14.50	1.445	-	-	-0.15	0.277	0.400
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI 1	656000	3840	12.98	14.50	1.419	-	-	-0.12	0.095	0.135
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI 1	656000	3840	12.90	14.50	1.445	-	-	-0.17	0.109	0.158
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI 1	656000	3840	12.98	14.50	1.419	-	-	0.08	0.097	0.138
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI 1	656000	3840	12.90	14.50	1.445	-	-	0.01	0.091	0.132
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	656000	3840	15.94	17.50	1.432	50	1.000	0.02	0.516	0.739



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	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	633332	3499.98	13.18	14.50	1.355	-	-	0.02	0.251	0.340
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	633332	3499.98	13.17	14.50	1.358	-	-	-0.11	0.316	0.429
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI 1	633332	3499.98	13.18	14.50	1.355	-	-	-0.01	0.159	0.215
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI 1	633332	3499.98	13.17	14.50	1.358	-	-	0.09	0.162	0.220
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI 1	633332	3499.98	13.18	14.50	1.355	-	-	0.1	0.066	0.089
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI 1	633332	3499.98	13.17	14.50	1.358	-	-	-0.04	0.070	0.095
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI 1	633332	3499.98	13.18	14.50	1.355	-	-	0.15	0.061	0.083
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI 1	633332	3499.98	13.17	14.50	1.358	-	-	0.09	0.054	0.073
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	633332	3499.98	16.23	17.50	1.340	50	1.000	-0.16	0.344	0.461
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 1	656000	3840	14.89	16.50	1.449	-	-	0.05	0.109	0.158
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 1	656000	3840	14.87	16.50	1.455	-	-	0.08	0.086	0.125
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 1	656000	3840	14.89	16.50	1.449	-	-	-0.18	0.096	0.139
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 1	656000	3840	14.87	16.50	1.455	-	-	-0.03	0.078	0.114
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	656000	3840	14.89	16.50	1.449	-	-	-0.04	0.627	0.908
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	656000	3840	14.87	16.50	1.455	-	-	-0.09	0.628	0.914
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	650000+ 656664	3750+ 3849.96	14.64	16.50	1.535	-	-	0.09	0.506	0.777
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	656000	3840	14.85	16.50	1.462	-	-	0.02	0.601	0.879
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 1	656000	3840	14.89	16.50	1.449	-	-	0.18	0.299	0.433
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 1	656000	3840	14.87	16.50	1.455	-	-	0.11	0.227	0.330
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	656000	3840	17.93	19.50	1.435	50	1.000	0.05	0.653	0.937
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 1	633332	3499.98	15.35	16.50	1.303	-	-	0.07	0.057	0.074
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 1	633332	3499.98	15.29	16.50	1.321	-	-	-0.03	0.077	0.102
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 1	633332	3499.98	15.35	16.50	1.303	-	-	0.09	0.043	0.056
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 1	633332	3499.98	15.29	16.50	1.321	-	-	-0.08	0.062	0.082
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	633332	3499.98	15.35	16.50	1.303	-	-	-0.05	0.380	0.495
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	633332	3499.98	15.29	16.50	1.321	-	-	-0.03	0.412	0.544
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 1	633332	3499.98	15.35	16.50	1.303	-	-	0.17	0.126	0.164
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 1	633332	3499.98	15.29	16.50	1.321	-	-	-0.14	0.175	0.231
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	633332	3499.98	18.33	19.50	1.309	50	1.000	-0.01	0.431	0.564
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	656000	3840	20.30	21.50	1.318	-	-	0.06	0.251	0.331
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	656000	3840	20.19	21.50	1.352	-	-	-0.06	0.252	0.341
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	650000+ 656664	3750+ 3849.96	20.02	21.50	1.406	-	-	0.04	0.201	0.283
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 1	656000	3840	20.30	21.50	1.318	-	-	-0.15	0.182	0.240
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 1	656000	3840	20.19	21.50	1.352	-	-	-0.12	0.178	0.241
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 1	656000	3840	20.30	21.50	1.318	-	-	-0.16	0.119	0.157
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 1	656000	3840	20.19	21.50	1.352	-	-	-0.03	0.130	0.176
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 1	656000	3840	20.30	21.50	1.318	-	-	0.17	0.083	0.109
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 1	656000	3840	20.19	21.50	1.352	-	-	0.02	0.079	0.107
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	656000	3840	23.09	24.50	1.384	50	1.000	0.06	0.260	0.360
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	633332	3499.98	20.12	21.50	1.374	-	-	0.18	0.255	0.350
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	633332	3499.98	20.11	21.50	1.377	-	-	-0.11	0.181	0.249
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 1	633332	3499.98	20.12	21.50	1.374	-	-	-0.05	0.188	0.258
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 1	633332	3499.98	20.11	21.50	1.377	-	-	-0.04	0.148	0.204
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 1	633332	3499.98	20.12	21.50	1.374	-	-	-0.08	0.075	0.103
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 1	633332	3499.98	20.11	21.50	1.377	-	-	-0.09	0.067	0.092
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 1	633332	3499.98	20.12	21.50	1.374	-	-	-0.14	0.067	0.092
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 1	633332	3499.98	20.11	21.50	1.377	-	-	0.01	0.057	0.079
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	633332	3499.98	23.05	24.50	1.396	50	1.000	0.18	0.265	0.370
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI 1	650000	3750	14.51	15.00	1.119	-	-	0.02	0.450	0.504
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI 1	650000	3750	14.45	15.00	1.135	-	-	0.16	0.437	0.496
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI 1	650000	3750	14.51	15.00	1.119	-	-	0.06	0.631	0.706
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI 1	650000	3750	14.45	15.00	1.135	-	-	-0.02	0.599	0.680
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI 1	650000	3750	14.51	15.00	1.119	-	-	-0.17	0.584	0.654
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI 1	650000	3750	14.45	15.00	1.135	-	-	0.1	0.564	0.640
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	650000	3750	14.51	15.00	1.119	-	-	-0.08	0.845	0.946
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	650000	3750	14.45	15.00	1.135	-	-	-0.13	0.791	0.898



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25	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	650000	3750	14.47	15.00	1.130	-	-	0.02	0.788	0.890
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	650000	3750	17.50	18.00	1.122	50	1.000	-0.02	0.863	0.968
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI 1	633332	3499.98	14.58	15.00	1.102	-	-	0.11	0.204	0.225
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI 1	633332	3499.98	14.56	15.00	1.107	-	-	-0.17	0.253	0.280
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI 1	633332	3499.98	14.58	15.00	1.102	-	-	0.01	0.273	0.301
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI 1	633332	3499.98	14.56	15.00	1.107	-	-	0.1	0.353	0.391
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI 1	633332	3499.98	14.58	15.00	1.102	-	-	0.11	0.259	0.285
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI 1	633332	3499.98	14.56	15.00	1.107	-	-	-0.07	0.331	0.366
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	633332	3499.98	14.58	15.00	1.102	-	-	0.18	0.362	0.399
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	633332	3499.98	14.56	15.00	1.107	-	-	0.12	0.417	0.461
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	633332	3499.98	17.58	18.00	1.102	50	1.000	0.15	0.422	0.465
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	650000	3750	13.21	14.00	1.199	-	-	0.14	0.483	0.579
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	650000	3750	13.15	14.00	1.216	-	-	-0.03	0.594	0.722
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI 1	650000	3750	13.21	14.00	1.199	-	-	-0.14	0.326	0.391
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI 1	650000	3750	13.15	14.00	1.216	-	-	0.17	0.317	0.386
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI 1	650000	3750	13.21	14.00	1.199	-	-	0.11	0.130	0.156
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI 1	650000	3750	13.15	14.00	1.216	-	-	0.07	0.116	0.141
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI 1	650000	3750	13.21	14.00	1.199	-	-	-0.04	0.109	0.131
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI 1	650000	3750	13.15	14.00	1.216	-	-	-0.18	0.110	0.134
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	650000	3750	16.11	17.00	1.227	50	1.000	-0.04	0.612	0.751
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	633332	3499.98	13.18	14.00	1.208	-	-	-0.17	0.252	0.304
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	633332	3499.98	13.11	14.00	1.227	-	-	-0.03	0.297	0.365
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI 1	633332	3499.98	13.18	14.00	1.208	-	-	0.14	0.159	0.192
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI 1	633332	3499.98	13.11	14.00	1.227	-	-	0.11	0.152	0.187
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI 1	633332	3499.98	13.18	14.00	1.208	-	-	-0.05	0.072	0.087
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI 1	633332	3499.98	13.11	14.00	1.227	-	-	0.18	0.070	0.086
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI 1	633332	3499.98	13.18	14.00	1.208	-	-	0.14	0.055	0.066
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI 1	633332	3499.98	13.11	14.00	1.227	-	-	-0.17	0.053	0.065
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI 1	633332	3499.98	16.15	17.00	1.216	50	1.000	-0.05	0.307	0.373
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 1	650000	3750	14.51	15.50	1.256	-	-	0.17	0.135	0.170
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 1	650000	3750	14.42	15.50	1.282	-	-	-0.05	0.120	0.154
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 1	650000	3750	14.51	15.50	1.256	-	-	0.01	0.116	0.146
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 1	650000	3750	14.42	15.50	1.282	-	-	0.1	0.103	0.132
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	650000	3750	14.51	15.50	1.256	-	-	-0.17	0.731	0.918
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	650000	3750	14.42	15.50	1.282	-	-	0.04	0.667	0.855
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	650000	3750	14.38	15.50	1.294	-	-	0.01	0.654	0.846
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 1	650000	3750	14.51	15.50	1.256	-	-	-0.08	0.330	0.414
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 1	650000	3750	14.42	15.50	1.282	-	-	0.05	0.296	0.380
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	650000	3750	17.51	18.50	1.256	50	1.000	-0.08	0.759	0.953
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 1	633332	3499.98	14.89	15.50	1.151	-	-	0.08	0.052	0.060
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI 1	633332	3499.98	14.86	15.50	1.159	-	-	0.01	0.069	0.080
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 1	633332	3499.98	14.89	15.50	1.151	-	-	0.03	0.042	0.048
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI 1	633332	3499.98	14.86	15.50	1.159	-	-	-0.08	0.054	0.063
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	633332	3499.98	14.89	15.50	1.151	-	-	-0.08	0.251	0.289
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	633332	3499.98	14.86	15.50	1.159	-	-	0.1	0.385	0.446
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 1	633332	3499.98	14.89	15.50	1.151	-	-	0.1	0.116	0.133
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI 1	633332	3499.98	14.86	15.50	1.159	-	-	0.12	0.155	0.180
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI 1	633332	3499.98	17.92	18.50	1.143	50	1.000	-0.07	0.423	0.483
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	650000	3750	21.26	22.50	1.330	-	-	0.13	0.207	0.275
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	650000	3750	21.10	22.50	1.380	-	-	0.12	0.259	0.358
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 1	650000	3750	21.26	22.50	1.330	-	-	0.03	0.159	0.212
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 1	650000	3750	21.10	22.50	1.380	-	-	0.18	0.163	0.225
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 1	650000	3750	21.26	22.50	1.330	-	-	0.16	0.090	0.120
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 1	650000	3750	21.10	22.50	1.380	-	-	-0.1	0.116	0.160
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 1	650000	3750	21.26	22.50	1.330	-	-	0.07	0.079	0.105
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 1	650000	3750	21.10	22.50	1.380	-	-	0.18	0.085	0.117



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	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	650000	3750	24.08	25.50	1.387	50	1.000	-0.07	0.270	0.374
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	633332	3499.98	21.09	22.50	1.384	-	-	-0.1	0.268	0.371
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	633332	3499.98	21.05	22.50	1.396	-	-	0.01	0.195	0.272
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 1	633332	3499.98	21.09	22.50	1.384	-	-	-0.15	0.209	0.289
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI 1	633332	3499.98	21.05	22.50	1.396	-	-	0.19	0.157	0.219
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 1	633332	3499.98	21.09	22.50	1.384	-	-	0.07	0.085	0.118
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI 1	633332	3499.98	21.05	22.50	1.396	-	-	-0.18	0.058	0.081
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 1	633332	3499.98	21.09	22.50	1.384	-	-	0.03	0.072	0.100
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI 1	633332	3499.98	21.05	22.50	1.396	-	-	-0.15	0.073	0.102
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI 1	633332	3499.98	24.08	25.50	1.387	50	1.000	-0.15	0.280	0.388

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)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 17+7(17)	Standalone	6	2437	17.35	18.00	1.161	98.47	1.016	0.10	0.440	0.519
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 17+7(17)	Standalone	6	2437	17.35	18.00	1.161	98.47	1.016	0.12	0.517	0.610
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 17+7(17)	Standalone	6	2437	17.35	18.00	1.161	98.47	1.016	0.08	0.748	0.883
26	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 17+7(17)	Standalone	11	2462	17.33	18.00	1.167	98.47	1.016	-0.04	0.901	1.068
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 17+7(17)	Standalone	6	2437	17.35	18.00	1.161	98.47	1.016	-0.17	0.550	0.649
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 17+7(17)	DBS only	6	2437	14.76	15.50	1.186	98.47	1.016	0.10	0.384	0.463
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 17+7(17)	DBS only	6	2437	14.76	15.50	1.186	98.47	1.016	0.12	0.451	0.543
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 17+7(17)	DBS only	6	2437	14.76	15.50	1.186	98.47	1.016	-0.03	0.653	0.787
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 17+7(17)	DBS only	6	2437	14.76	15.50	1.186	98.47	1.016	0.08	0.480	0.578
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 17+7(17)	WWAN+non DBS	6	2437	12.80	13.50	1.175	98.47	1.016	-0.17	0.273	0.326
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 17+7(17)	WWAN+non DBS	6	2437	12.80	13.50	1.175	98.47	1.016	-0.03	0.320	0.382
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 17+7(17)	WWAN+non DBS	6	2437	12.80	13.50	1.175	98.47	1.016	0.08	0.401	0.479
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 17+7(17)	WWAN+non DBS	6	2437	12.80	13.50	1.175	98.47	1.016	0.14	0.341	0.407
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 17+7(17)	WWAN+DBS	6	2437	8.83	9.50	1.167	98.47	1.016	0.08	0.127	0.151
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 17+7(17)	WWAN+DBS	6	2437	8.83	9.50	1.167	98.47	1.016	0.01	0.148	0.175
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 17+7(17)	WWAN+DBS	6	2437	8.83	9.50	1.167	98.47	1.016	-0.01	0.186	0.220
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 17+7(17)	WWAN+DBS	6	2437	8.83	9.50	1.167	98.47	1.016	0.03	0.158	0.187
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7	non DBS	6	2437	18.45	19.00	1.135	98.47	1.016	0.08	0.537	0.619
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7	non DBS	6	2437	18.45	19.00	1.135	98.47	1.016	0.01	0.630	0.726
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	non DBS	6	2437	18.45	19.00	1.135	98.47	1.016	0.07	0.912	1.052
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	non DBS	1	2412	18.38	19.00	1.153	98.47	1.016	0.06	0.846	0.991
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7	non DBS	6	2437	18.45	19.00	1.135	98.47	1.016	0.03	0.671	0.774
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7	WWAN+non DBS	6	2437	11.41	12.00	1.146	98.47	1.016	-0.08	0.111	0.129
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7	WWAN+non DBS	6	2437	11.41	12.00	1.146	98.47	1.016	-0.08	0.131	0.152
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	WWAN+non DBS	6	2437	11.41	12.00	1.146	98.47	1.016	0.10	0.189	0.220
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7	WWAN+non DBS	6	2437	11.41	12.00	1.146	98.47	1.016	-0.18	0.139	0.162
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 17	Standalone	39	2441	15.78	16.50	1.180	76.80	1.085	-0.08	0.267	0.342
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 17	Standalone	39	2441	15.78	16.50	1.180	76.80	1.085	0.10	0.289	0.370
27	Bluetooth	1Mbps	Left Cheek	0mm	Ant 17	Standalone	39	2441	15.78	16.50	1.180	76.80	1.085	-0.18	0.382	0.489
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 17	Standalone	39	2441	15.78	16.50	1.180	76.80	1.085	-0.01	0.329	0.421
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 17	WWAN+non DBS	39	2441	10.80	11.50	1.175	76.80	1.085	0.08	0.127	0.162
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 17	WWAN+non DBS	39	2441	10.80	11.50	1.175	76.80	1.085	0.01	0.138	0.176
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 17	WWAN+non DBS	39	2441	10.80	11.50	1.175	76.80	1.085	0.09	0.182	0.232
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 17	WWAN+non DBS	39	2441	10.80	11.50	1.175	76.80	1.085	0.03	0.157	0.200
5000MHz																
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 18+19(19)	Standalone	58	5290	16.62	17.50	1.225	100	1.000	0.08	0.331	0.405
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 18+19(19)	Standalone	58	5290	16.62	17.50	1.225	100	1.000	0.01	0.382	0.468
28	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 18+19(19)	Standalone	58	5290	16.62	17.50	1.225	100	1.000	0.06	0.786	0.963
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 18+19(19)	Standalone	58	5290	16.62	17.50	1.225	100	1.000	-0.08	0.598	0.732
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 18+19(18)	DBS only	58	5290	15.55	16.50	1.245	100	1.000	0.08	0.260	0.324
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 18+19(18)	DBS only	58	5290	15.55	16.50	1.245	100	1.000	0.01	0.300	0.373



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	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 18+19(18)	DBS only	58	5290	15.55	16.50	1.245	100	1.000	0.03	0.618	0.769
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 18+19(18)	DBS only	58	5290	15.55	16.50	1.245	100	1.000	-0.08	0.470	0.585
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 18+19(18)	WWAN+DBS/non DBS	50	5250	10.77	11.50	1.183	100	1.000	-0.08	0.084	0.099
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 18+19(18)	WWAN+DBS/non DBS	50	5250	10.77	11.50	1.183	100	1.000	0.10	0.097	0.115
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 18+19(18)	WWAN+DBS/non DBS	50	5250	10.77	11.50	1.183	100	1.000	-0.18	0.199	0.235
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 18+19(18)	WWAN+DBS/non DBS	50	5250	10.77	11.50	1.183	100	1.000	0.10	0.151	0.179
	WLAN5.5GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 18+19(19)	Standalone	122	5610	17.68	18.50	1.208	100	1.000	0.08	0.442	0.534
	WLAN5.5GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 18+19(19)	Standalone	122	5610	17.68	18.50	1.208	100	1.000	0.01	0.449	0.542
29	WLAN5.5GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 18+19(19)	Standalone	122	5610	17.68	18.50	1.208	100	1.000	0.13	0.803	0.970
	WLAN5.5GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 18+19(19)	Standalone	138	5690	17.70	18.50	1.202	100	1.000	-0.08	0.664	0.798
	WLAN5.5GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 18+19(19)	Standalone	122	5610	17.68	18.50	1.208	100	1.000	0.03	0.727	0.878
	WLAN5.5GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 18+19(19)	Standalone	138	5690	17.70	18.50	1.202	100	1.000	0.01	0.588	0.707
	WLAN5.5GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 18+19(19)	DBS only	122	5610	16.71	17.50	1.199	100	1.000	0.12	0.356	0.427
	WLAN5.5GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 18+19(19)	DBS only	122	5610	16.71	17.50	1.199	100	1.000	0.08	0.361	0.433
	WLAN5.5GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 18+19(19)	DBS only	122	5610	16.71	17.50	1.199	100	1.000	-0.17	0.646	0.775
	WLAN5.5GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 18+19(19)	DBS only	122	5610	16.71	17.50	1.199	100	1.000	-0.03	0.585	0.702
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 18+19(19)	WWAN+DBS/non DBS	114	5570	11.82	12.50	1.169	100	1.000	0.14	0.114	0.133
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 18+19(19)	WWAN+DBS/non DBS	114	5570	11.82	12.50	1.169	100	1.000	0.11	0.115	0.134
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 18+19(19)	WWAN+DBS/non DBS	114	5570	11.82	12.50	1.169	100	1.000	-0.05	0.206	0.241
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 18+19(19)	WWAN+DBS/non DBS	114	5570	11.82	12.50	1.169	100	1.000	0.18	0.187	0.219
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 18+19(18)	Standalone	155	5775	16.20	17.00	1.202	100	1.000	0.08	0.371	0.446
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 18+19(18)	Standalone	155	5775	16.20	17.00	1.202	100	1.000	0.01	0.431	0.518
30	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 18+19(18)	Standalone	155	5775	16.20	17.00	1.202	100	1.000	0.01	0.844	1.015
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 18+19(18)	Standalone	155	5775	16.20	17.00	1.202	100	1.000	0.03	0.695	0.836
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 18+19(19)	DBS only	155	5775	14.77	15.50	1.183	100	1.000	0.08	0.292	0.345
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 18+19(19)	DBS only	155	5775	14.77	15.50	1.183	100	1.000	0.01	0.340	0.402
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 18+19(19)	DBS only	155	5775	14.77	15.50	1.183	100	1.000	0.03	0.665	0.787
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 18+19(19)	DBS only	155	5775	14.77	15.50	1.183	100	1.000	-0.08	0.548	0.648
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 18+19(18)	WWAN+DBS/non DBS	155	5775	10.25	11.00	1.189	100	1.000	-0.08	0.092	0.109
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 18+19(18)	WWAN+DBS/non DBS	155	5775	10.25	11.00	1.189	100	1.000	0.10	0.107	0.127
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 18+19(18)	WWAN+DBS/non DBS	155	5775	10.25	11.00	1.189	100	1.000	-0.18	0.209	0.248
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 18+19(18)	WWAN+DBS/non DBS	155	5775	10.25	11.00	1.189	100	1.000	0.10	0.172	0.204



16.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	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)
835MHz																				
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 0	ECI 5	189	836.4	27.08	28.00	1.236	-	-	0.08	0.266	0.329
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 0	ECI 5	189	836.4	27.08	28.00	1.236	-	-	0.01	0.318	0.393
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	10mm	Ant 0	ECI 5	189	836.4	27.08	28.00	1.236	-	-	0.03	0.324	0.400
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 0	ECI 5	189	836.4	27.08	28.00	1.236	-	-	-0.08	0.226	0.279
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 1	ECI 5	189	836.4	24.61	26.00	1.377	-	-	-0.08	0.389	0.536
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 1	ECI 5	189	836.4	24.61	26.00	1.377	-	-	-0.08	0.450	0.620
31	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 1	ECI 5	189	836.4	24.61	26.00	1.377	-	-	-0.02	0.647	0.891
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 1	ECI 5	128	824.2	24.58	26.00	1.387	-	-	0.08	0.632	0.876
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 1	ECI 5	251	848.8	24.50	26.00	1.413	-	-	0.01	0.619	0.874
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	ECI 5	4182	836.4	24.14	25.00	1.219	-	-	-0.08	0.218	0.266
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	ECI 5	4182	836.4	24.14	25.00	1.219	-	-	0.1	0.267	0.325
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	ECI 5	4182	836.4	24.14	25.00	1.219	-	-	-0.18	0.297	0.362
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	ECI 5	4182	836.4	24.14	25.00	1.219	-	-	0.1	0.184	0.224
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	ECI 5	4182	836.4	21.19	22.50	1.352	-	-	0.1	0.416	0.562
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	ECI 5	4182	836.4	21.19	22.50	1.352	-	-	-0.18	0.504	0.681
32	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECI 5	4182	836.4	21.19	22.50	1.352	-	-	0.01	0.708	0.957
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECI 5	4132	826.4	21.14	22.50	1.368	-	-	-0.17	0.680	0.930
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECI 5	4233	846.6	21.11	22.50	1.377	-	-	-0.03	0.638	0.879
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 5	20600	844	25.12	25.70	1.143	-	-	0.12	0.290	0.331
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Front	10mm	Ant 0	ECI 5	20600	844	24.10	24.70	1.148	-	-	0.08	0.225	0.258
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 5	20600	844	25.12	25.70	1.143	-	-	-0.17	0.371	0.424
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Back	10mm	Ant 0	ECI 5	20600	844	24.10	24.70	1.148	-	-	-0.03	0.291	0.334
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 5	20600	844	25.12	25.70	1.143	-	-	0.14	0.408	0.466
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	ECI 5	20600	844	24.10	24.70	1.148	-	-	0.11	0.326	0.374
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 5	20600	844	25.12	25.70	1.143	-	-	-0.05	0.267	0.305
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	ECI 5	20600	844	24.10	24.70	1.148	-	-	0.18	0.212	0.243
	LTE Band 5	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 5	20600	844	25.11	25.70	1.146	-	-	0.14	0.362	0.415
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 5	20600	844	25.11	25.70	1.146	-	-	-0.17	0.114	0.131
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 0	ECI 5	20600	844	24.06	24.70	1.159	-	-	0.17	0.095	0.110
	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 5	20600	844	25.11	25.70	1.146	-	-	-0.05	0.168	0.192
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 0	ECI 5	20600	844	24.06	24.70	1.159	-	-	0.01	0.139	0.161
	LTE Band 5	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 5	20600	844	25.11	25.70	1.146	-	-	0.1	0.201	0.230
	LTE Band 5	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	ECI 5	20600	844	24.06	24.70	1.159	-	-	-0.17	0.168	0.195
	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 5	20600	844	25.11	25.70	1.146	-	-	0.04	0.129	0.148
	LTE Band 5	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	ECI 5	20600	844	24.06	24.70	1.159	-	-	-0.01	0.107	0.124
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 5	20600	844	25.12	25.70	1.143	-	-	-0.08	0.190	0.217
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 5	20525	836.5	21.85	22.20	1.084	-	-	0.17	0.498	0.540
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Front	10mm	Ant 1	ECI 5	20525	836.5	21.83	22.20	1.089	-	-	-0.05	0.486	0.529
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 5	20525	836.5	21.85	22.20	1.084	-	-	0.01	0.574	0.622
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Back	10mm	Ant 1	ECI 5	20525	836.5	21.83	22.20	1.089	-	-	0.1	0.567	0.617
33	LTE Band 5_Other PA	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	20525	836.5	21.85	22.20	1.084	-	-	-0.03	0.843	0.914
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	ECI 5	20525	836.5	21.83	22.20	1.089	-	-	0.04	0.816	0.889
	LTE Band 5_Other PA	10M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 5	20525	836.5	21.82	22.20	1.091	-	-	-0.01	0.785	0.857
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	20525	836.5	21.85	22.20	1.084	-	-	-0.08	0.574	0.622
	LTE Band 5	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	20525	836.5	21.62	22.20	1.143	-	-	-0.03	0.794	0.907
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 5	26965	841.5	25.14	25.70	1.138	-	-	0.05	0.254	0.289
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 0	ECI 5	26965	841.5	24.01	24.70	1.172	-	-	0.06	0.200	0.234
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 5	26965	841.5	25.14	25.70	1.138	-	-	-0.09	0.317	0.361
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 0	ECI 5	26965	841.5	24.01	24.70	1.172	-	-	-0.08	0.252	0.295



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	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 5	26965	841.5	25.14	25.70	1.138	-	-	0.13	0.377	0.429
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 0	ECI 5	26965	841.5	24.01	24.70	1.172	-	-	0.12	0.267	0.313
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 5	26965	841.5	25.14	25.70	1.138	-	-	0.03	0.241	0.274
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	10mm	Ant 0	ECI 5	26965	841.5	24.01	24.70	1.172	-	-	0.18	0.188	0.220
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 5	26965	841.5	25.14	25.70	1.138	-	-	0.16	0.104	0.118
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 0	ECI 5	26965	841.5	24.01	24.70	1.172	-	-	-0.1	0.091	0.107
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 5	26965	841.5	25.14	25.70	1.138	-	-	0.07	0.159	0.181
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 0	ECI 5	26965	841.5	24.01	24.70	1.172	-	-	0.18	0.126	0.148
	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 5	26965	841.5	25.14	25.70	1.138	-	-	-0.1	0.189	0.215
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 0	ECI 5	26965	841.5	24.01	24.70	1.172	-	-	0.01	0.153	0.179
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 5	26965	841.5	25.14	25.70	1.138	-	-	-0.15	0.122	0.139
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	10mm	Ant 0	ECI 5	26965	841.5	24.01	24.70	1.172	-	-	0.19	0.099	0.116
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 5	26865	831.5	22.10	22.70	1.148	-	-	-0.09	0.424	0.487
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 1	ECI 5	26865	831.5	22.05	22.70	1.161	-	-	-0.08	0.449	0.521
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 5	26865	831.5	22.10	22.70	1.148	-	-	0.13	0.503	0.578
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 1	ECI 5	26865	831.5	22.05	22.70	1.161	-	-	0.12	0.533	0.619
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	26865	831.5	22.10	22.70	1.148	-	-	0.03	0.751	0.862
34	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	ECI 5	26865	831.5	22.05	22.70	1.161	-	-	-0.04	0.761	0.884
	LTE Band 26	15M	QPSK	75	0	-	Left Side	10mm	Ant 1	ECI 5	26865	831.5	22.02	22.70	1.169	-	-	0.01	0.725	0.848
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	ECI 5	26865	831.5	22.05	22.70	1.161	-	-	0.16	0.496	0.576
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167800	839	25.40	25.70	1.072	-	-	-0.08	0.242	0.259
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167800	839	25.32	25.70	1.091	-	-	-0.04	0.251	0.274
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167800	839	25.40	25.70	1.072	-	-	-0.08	0.315	0.338
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167800	839	25.32	25.70	1.091	-	-	0.17	0.319	0.348
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167800	839	25.40	25.70	1.072	-	-	0.18	0.340	0.364
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167800	839	25.32	25.70	1.091	-	-	0.02	0.415	0.453
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167800	839	25.40	25.70	1.072	-	-	-0.08	0.218	0.234
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167800	839	25.32	25.70	1.091	-	-	-0.13	0.239	0.261
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167800	839	25.40	25.70	1.072	-	-	0.07	0.180	0.193
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167800	839	25.32	25.70	1.091	-	-	-0.18	0.109	0.119
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167800	839	25.40	25.70	1.072	-	-	0.03	0.221	0.237
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167800	839	25.32	25.70	1.091	-	-	-0.15	0.172	0.188
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167800	839	25.40	25.70	1.072	-	-	-0.15	0.152	0.163
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167800	839	25.32	25.70	1.091	-	-	0.11	0.187	0.204
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167800	839	25.40	25.70	1.072	-	-	-0.08	0.121	0.130
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167800	839	25.32	25.70	1.091	-	-	-0.17	0.118	0.129
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	167300	836.5	22.07	22.20	1.030	-	-	-0.1	0.430	0.443
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	167300	836.5	21.97	22.20	1.054	-	-	0.07	0.516	0.544
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	167300	836.5	22.07	22.20	1.030	-	-	-0.18	0.520	0.536
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	167300	836.5	21.97	22.20	1.054	-	-	-0.1	0.609	0.642
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	167300	836.5	22.07	22.20	1.030	-	-	0.01	0.793	0.817
35	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	167300	836.5	21.97	22.20	1.054	-	-	0.01	0.899	0.948
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	167300	836.5	21.94	22.20	1.062	-	-	0.07	0.849	0.901
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	167300	836.5	21.97	22.20	1.054	-	-	-0.18	0.682	0.719
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167800	839	25.45	25.70	1.059	-	-	-0.13	0.248	0.263
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167800	839	25.39	25.70	1.074	-	-	0.06	0.255	0.274
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167800	839	25.45	25.70	1.059	-	-	-0.03	0.330	0.350
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167800	839	25.39	25.70	1.074	-	-	-0.03	0.331	0.355
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167800	839	25.45	25.70	1.059	-	-	0.08	0.362	0.383
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167800	839	25.39	25.70	1.074	-	-	-0.07	0.372	0.400
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167800	839	25.45	25.70	1.059	-	-	0.05	0.220	0.233
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167800	839	25.39	25.70	1.074	-	-	-0.11	0.234	0.251
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167800	839	25.45	25.70	1.059	-	-	-0.12	0.171	0.181
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167800	839	25.39	25.70	1.074	-	-	0.03	0.164	0.176
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167800	839	25.45	25.70	1.059	-	-	-0.16	0.212	0.225
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167800	839	25.39	25.70	1.074	-	-	-0.02	0.196	0.211



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	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167800	839	25.45	25.70	1.059	-	-	0.15	0.156	0.165
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167800	839	25.39	25.70	1.074	-	-	-0.09	0.151	0.162
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167800	839	25.45	25.70	1.059	-	-	0.11	0.110	0.117
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167800	839	25.39	25.70	1.074	-	-	-0.05	0.111	0.119
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	166300	831.5	22.55	22.70	1.035	-	-	0.03	0.406	0.420
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	166300	831.5	22.51	22.70	1.045	-	-	-0.15	0.487	0.509
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	166300	831.5	22.55	22.70	1.035	-	-	-0.15	0.476	0.493
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	166300	831.5	22.51	22.70	1.045	-	-	0.11	0.577	0.603
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	166300	831.5	22.55	22.70	1.035	-	-	-0.08	0.780	0.807
36	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	166300	831.5	22.51	22.70	1.045	-	-	-0.02	0.878	0.917
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	166300	831.5	22.47	22.70	1.054	-	-	-0.04	0.862	0.909
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	166300	831.5	22.51	22.70	1.045	-	-	-0.08	0.563	0.588
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 5	1413	1732.6	22.49	23.50	1.262	-	-	0.14	0.362	0.457
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 5	1413	1732.6	22.49	23.50	1.262	-	-	0.11	0.454	0.573
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	ECI 5	1413	1732.6	22.49	23.50	1.262	-	-	0.14	0.123	0.155
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	ECI 5	1413	1732.6	22.49	23.50	1.262	-	-	-0.17	0.675	0.852
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	ECI 5	1312	1712.4	22.40	23.50	1.288	-	-	0.17	0.683	0.880
37	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	ECI 5	1513	1752.6	22.44	23.50	1.276	-	-	-0.01	0.778	0.993
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 4	ECI 5	1413	1732.6	17.32	18.70	1.374	-	-	0.04	0.108	0.148
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 4	ECI 5	1413	1732.6	17.32	18.70	1.374	-	-	-0.01	0.157	0.216
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 4	ECI 5	1413	1732.6	17.32	18.70	1.374	-	-	-0.08	0.053	0.073
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 4	ECI 5	1413	1732.6	17.32	18.70	1.374	-	-	-0.06	0.193	0.265
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	20175	1732.5	18.12	18.70	1.143	-	-	0.17	0.170	0.194
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	20175	1732.5	18.09	18.70	1.151	-	-	0.18	0.168	0.193
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	20175	1732.5	18.12	18.70	1.143	-	-	-0.04	0.259	0.296
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	20175	1732.5	18.09	18.70	1.151	-	-	-0.08	0.246	0.283
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	20175	1732.5	18.12	18.70	1.143	-	-	-0.13	0.079	0.090
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	20175	1732.5	18.09	18.70	1.151	-	-	-0.13	0.082	0.094
	LTE Band 4	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	20175	1732.5	18.12	18.70	1.143	-	-	-0.01	0.300	0.343
	LTE Band 4	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 5	20175	1732.5	18.09	18.70	1.151	-	-	-0.03	0.292	0.336
	LTE Band 4	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	20175	1732.5	18.12	18.70	1.143	-	-	0.08	0.145	0.166
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	20175	1732.5	23.56	24.20	1.159	-	-	-0.07	0.453	0.525
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 5	20175	1732.5	23.51	24.20	1.172	-	-	0.05	0.453	0.531
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	20175	1732.5	23.56	24.20	1.159	-	-	-0.11	0.609	0.706
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	20175	1732.5	23.51	24.20	1.172	-	-	-0.12	0.543	0.637
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 5	20175	1732.5	23.56	24.20	1.159	-	-	-0.16	0.155	0.180
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 5	20175	1732.5	23.51	24.20	1.172	-	-	-0.02	0.140	0.164
38	LTE Band 4	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	20175	1732.5	23.56	24.20	1.159	-	-	-0.03	0.865	1.002
	LTE Band 4	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	20175	1732.5	23.51	24.20	1.172	-	-	0.11	0.794	0.931
	LTE Band 4	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	ECI 5	20175	1732.5	23.50	24.20	1.175	-	-	-0.05	0.848	0.996
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECI 5	20175	1732.5	19.56	21.00	1.393	-	-	-0.08	0.161	0.224
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECI 5	20175	1732.5	19.49	21.00	1.416	-	-	0.16	0.160	0.227
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 5	20175	1732.5	19.56	21.00	1.393	-	-	0.05	0.253	0.352
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 5	20175	1732.5	19.49	21.00	1.416	-	-	0.05	0.251	0.355
	LTE Band 4	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	20175	1732.5	19.56	21.00	1.393	-	-	-0.03	0.408	0.568
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	20175	1732.5	19.49	21.00	1.416	-	-	-0.15	0.407	0.576
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	132322	1745	20.57	21.20	1.156	-	-	-0.03	0.103	0.119
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	132322	1745	20.49	21.20	1.178	-	-	-0.15	0.103	0.121
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	132322	1745	20.57	21.20	1.156	-	-	0.02	0.163	0.188
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	132322	1745	20.49	21.20	1.178	-	-	0.07	0.162	0.191
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	132322	1745	20.57	21.20	1.156	-	-	0.16	0.046	0.053
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	132322	1745	20.49	21.20	1.178	-	-	0.13	0.050	0.059
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	132322	1745	20.57	21.20	1.156	-	-	0.08	0.213	0.246
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 5	132322	1745	20.49	21.20	1.178	-	-	0.16	0.212	0.250
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	132322	1745	22.53	23.20	1.167	-	-	-0.03	0.323	0.377



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	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 5	132322	1745	22.48	23.20	1.180	-	-	0.07	0.363	0.428
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	132322	1745	22.53	23.20	1.167	-	-	0.04	0.430	0.502
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	132322	1745	22.48	23.20	1.180	-	-	-0.06	0.432	0.510
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 5	132322	1745	22.53	23.20	1.167	-	-	-0.1	0.107	0.125
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 5	132322	1745	22.48	23.20	1.180	-	-	0.18	0.113	0.133
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	132322	1745	22.53	23.20	1.167	-	-	-0.17	0.698	0.814
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	132072	1720	22.51	23.20	1.172	-	-	-0.04	0.744	0.872
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	132572	1770	22.46	23.20	1.186	-	-	-0.05	0.763	0.905
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	132322	1745	22.48	23.20	1.180	-	-	0.1	0.731	0.863
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	132072	1720	22.46	23.20	1.186	-	-	-0.13	0.756	0.896
39	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	132572	1770	22.35	23.20	1.216	-	-	-0.09	0.784	0.953
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	ECI 5	132322	1745	22.47	23.20	1.183	-	-	0.05	0.696	0.823
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECI 5	132322	1745	19.19	20.50	1.352	-	-	0.1	0.142	0.192
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECI 5	132322	1745	19.16	20.50	1.361	-	-	-0.18	0.135	0.184
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 5	132322	1745	19.19	20.50	1.352	-	-	0.1	0.227	0.307
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 5	132322	1745	19.16	20.50	1.361	-	-	0.12	0.217	0.295
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	132322	1745	19.19	20.50	1.352	-	-	-0.04	0.367	0.496
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	132322	1745	19.16	20.50	1.361	-	-	0.08	0.348	0.474
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 4	ECI 5	349000	1745	21.51	21.70	1.045	-	-	0.02	0.138	0.144
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 4	ECI 5	349000	1745	21.49	21.70	1.050	-	-	0.07	0.131	0.137
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 4	ECI 5	349000	1745	21.51	21.70	1.045	-	-	0.16	0.225	0.235
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 4	ECI 5	349000	1745	21.49	21.70	1.050	-	-	0.13	0.223	0.234
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 4	ECI 5	349000	1745	21.51	21.70	1.045	-	-	-0.18	0.060	0.063
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 4	ECI 5	349000	1745	21.49	21.70	1.050	-	-	0.02	0.063	0.066
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 4	ECI 5	349000	1745	21.51	21.70	1.045	-	-	0.16	0.300	0.313
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 4	ECI 5	349000	1745	21.49	21.70	1.050	-	-	-0.03	0.265	0.278
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	ECI 5	349000	1745	20.75	21.20	1.109	-	-	0.13	0.205	0.227
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 2	ECI 5	349000	1745	20.66	21.20	1.132	-	-	-0.18	0.243	0.275
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	ECI 5	349000	1745	20.75	21.20	1.109	-	-	-0.11	0.260	0.288
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 2	ECI 5	349000	1745	20.66	21.20	1.132	-	-	-0.16	0.309	0.350
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	ECI 5	349000	1745	20.75	21.20	1.109	-	-	-0.15	0.068	0.075
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 2	ECI 5	349000	1745	20.66	21.20	1.132	-	-	-0.06	0.078	0.088
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	ECI 5	349000	1745	20.75	21.20	1.109	-	-	-0.14	0.374	0.415
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	ECI 5	349000	1745	20.66	21.20	1.132	-	-	0.02	0.481	0.545
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 5	ECI 5	349000	1745	20.05	21.00	1.245	-	-	0.01	0.220	0.274
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 5	ECI 5	349000	1745	20.00	21.00	1.259	-	-	0.06	0.246	0.310
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 5	ECI 5	349000	1745	20.05	21.00	1.245	-	-	0.02	0.341	0.424
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 5	ECI 5	349000	1745	20.00	21.00	1.259	-	-	0.12	0.388	0.488
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 5	ECI 5	349000	1745	20.05	21.00	1.245	-	-	-0.16	0.554	0.689
40	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 5	ECI 5	349000	1745	20.00	21.00	1.259	-	-	-0.05	0.591	0.744
1900MHz																				
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 2	ECI 5	661	1880	22.12	23.00	1.225	-	-	0.08	0.279	0.342
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 2	ECI 5	661	1880	22.12	23.00	1.225	-	-	0.01	0.329	0.403
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 2	ECI 5	661	1880	22.12	23.00	1.225	-	-	0.03	0.095	0.116
41	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 2	ECI 5	661	1880	22.12	23.00	1.225	-	-	-0.02	0.550	0.674
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 4	ECI 5	661	1880	20.79	22.50	1.483	-	-	0.07	0.138	0.205
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 4	ECI 5	661	1880	20.79	22.50	1.483	-	-	0.03	0.228	0.338
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 4	ECI 5	661	1880	20.79	22.50	1.483	-	-	0.01	0.109	0.162
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 4	ECI 5	661	1880	20.79	22.50	1.483	-	-	-0.01	0.252	0.374
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 5	9400	1880	20.57	21.50	1.239	-	-	-0.02	0.365	0.452
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 5	9400	1880	20.57	21.50	1.239	-	-	-0.05	0.489	0.606
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	ECI 5	9400	1880	20.57	21.50	1.239	-	-	0.16	0.130	0.161
42	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	ECI 5	9400	1880	20.57	21.50	1.239	-	-	-0.05	0.832	1.031
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	ECI 5	9262	1852.4	20.53	21.50	1.250	-	-	0.1	0.821	1.026
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	ECI 5	9538	1907.6	20.54	21.50	1.247	-	-	-0.04	0.783	0.977
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 4	ECI 5	9400	1880	17.35	18.70	1.365	-	-	-0.17	0.117	0.160



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	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 4	ECI 5	9400	1880	17.35	18.70	1.365	-	-	-0.03	0.197	0.269
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 4	ECI 5	9400	1880	17.35	18.70	1.365	-	-	0.14	0.088	0.120
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 4	ECI 5	9400	1880	17.35	18.70	1.365	-	-	-0.03	0.227	0.310
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	18900	1880	17.93	19.00	1.279	-	-	-0.13	0.153	0.196
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	18900	1880	17.88	19.00	1.294	-	-	0.16	0.151	0.195
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	18900	1880	17.93	19.00	1.279	-	-	-0.15	0.234	0.299
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	18900	1880	17.88	19.00	1.294	-	-	-0.02	0.228	0.295
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	18900	1880	17.93	19.00	1.279	-	-	-0.09	0.093	0.119
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	18900	1880	17.88	19.00	1.294	-	-	0.14	0.104	0.135
	LTE Band 2	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	18900	1880	17.93	19.00	1.279	-	-	-0.03	0.285	0.365
	LTE Band 2	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 5	18900	1880	17.88	19.00	1.294	-	-	0.07	0.281	0.364
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	18900	1880	20.54	21.50	1.247	-	-	-0.09	0.339	0.423
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 5	18900	1880	20.50	21.50	1.259	-	-	-0.16	0.368	0.463
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	18900	1880	20.54	21.50	1.247	-	-	-0.18	0.491	0.612
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	18900	1880	20.50	21.50	1.259	-	-	-0.07	0.473	0.595
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 5	18900	1880	20.54	21.50	1.247	-	-	0.11	0.135	0.168
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 5	18900	1880	20.50	21.50	1.259	-	-	-0.08	0.135	0.170
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	18900	1880	20.54	21.50	1.247	-	-	-0.1	0.755	0.942
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	18700	1860	20.53	21.50	1.250	-	-	-0.01	0.774	0.968
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	19100	1900	20.52	21.50	1.253	-	-	-0.09	0.698	0.875
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	18900	1880	20.50	21.50	1.259	-	-	-0.06	0.773	0.973
43	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	18700	1860	20.40	21.50	1.288	-	-	-0.17	0.784	1.010
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	19100	1900	20.48	21.50	1.265	-	-	-0.01	0.693	0.876
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	ECI 5	18900	1880	20.49	21.50	1.262	-	-	-0.11	0.756	0.954
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECI 5	18900	1880	16.70	18.00	1.349	-	-	0.08	0.078	0.105
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECI 5	18900	1880	16.67	18.00	1.358	-	-	0.01	0.081	0.110
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 5	18900	1880	16.70	18.00	1.349	-	-	0.03	0.102	0.138
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 3	ECI 5	18900	1880	16.67	18.00	1.358	-	-	-0.08	0.108	0.147
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	18900	1880	16.70	18.00	1.349	-	-	-0.08	0.151	0.204
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECI 5	18900	1880	16.67	18.00	1.358	-	-	0.1	0.158	0.215
	LTE Band 2	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECI 5	18900	1880	16.70	18.00	1.349	-	-	-0.18	0.010	0.013
	LTE Band 2	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECI 5	18900	1880	16.67	18.00	1.358	-	-	0.1	0.006	0.008
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECI 5	18900	1880	17.94	19.50	1.432	-	-	0.11	0.057	0.082
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECI 5	18900	1880	17.87	19.50	1.455	-	-	-0.05	0.048	0.070
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 5	18900	1880	17.94	19.50	1.432	-	-	0.18	0.094	0.135
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 5	18900	1880	17.87	19.50	1.455	-	-	0.14	0.078	0.114
	LTE Band 2	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	18900	1880	17.94	19.50	1.432	-	-	0.01	0.174	0.249
	LTE Band 2	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	18900	1880	17.87	19.50	1.455	-	-	-0.17	0.143	0.208
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 4	ECI 5	376000	1880	18.58	19.00	1.102	-	-	0.14	0.161	0.177
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 4	ECI 5	376000	1880	18.52	19.00	1.117	-	-	0.03	0.166	0.185
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 4	ECI 5	376000	1880	18.58	19.00	1.102	-	-	0.1	0.265	0.292
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 4	ECI 5	376000	1880	18.52	19.00	1.117	-	-	0.16	0.279	0.312
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 4	ECI 5	376000	1880	18.58	19.00	1.102	-	-	-0.06	0.121	0.133
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 4	ECI 5	376000	1880	18.52	19.00	1.117	-	-	0.02	0.115	0.128
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 4	ECI 5	376000	1880	18.58	19.00	1.102	-	-	0.03	0.297	0.327
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 4	ECI 5	376000	1880	18.52	19.00	1.117	-	-	-0.03	0.294	0.328
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	ECI 5	376000	1880	20.95	21.70	1.189	-	-	0.17	0.427	0.507
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 2	ECI 5	376000	1880	20.93	21.70	1.194	-	-	-0.15	0.407	0.486
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	ECI 5	376000	1880	20.95	21.70	1.189	-	-	0.16	0.562	0.668
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 2	ECI 5	376000	1880	20.93	21.70	1.194	-	-	0.05	0.549	0.655
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	ECI 5	376000	1880	20.95	21.70	1.189	-	-	-0.06	0.151	0.179
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 2	ECI 5	376000	1880	20.93	21.70	1.194	-	-	-0.13	0.134	0.160
44	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	ECI 5	376000	1880	20.95	21.70	1.189	-	-	0.02	0.816	0.970
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	ECI 5	372000	1860	20.74	21.70	1.247	-	-	-0.11	0.772	0.963
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	ECI 5	380000	1900	20.70	21.70	1.259	-	-	0.19	0.766	0.964
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	ECI 5	376000	1880	20.93	21.70	1.194	-	-	-0.14	0.808	0.965



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	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	ECI 5	372000	1860	20.73	21.70	1.250	-	-	-0.18	0.760	0.950
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	ECI 5	380000	1900	20.78	21.70	1.236	-	-	-0.06	0.779	0.963
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	ECI 5	376000	1880	20.87	21.70	1.211	-	-	0.02	0.782	0.947
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 3	ECI 5	376000	1880	16.49	17.50	1.262	-	-	0.16	0.120	0.151
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 3	ECI 5	376000	1880	16.47	17.50	1.268	-	-	0.01	0.134	0.170
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 3	ECI 5	376000	1880	16.49	17.50	1.262	-	-	-0.04	0.167	0.211
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 3	ECI 5	376000	1880	16.47	17.50	1.268	-	-	0.07	0.180	0.228
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 3	ECI 5	376000	1880	16.49	17.50	1.262	-	-	-0.09	0.242	0.305
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 3	ECI 5	376000	1880	16.47	17.50	1.268	-	-	-0.03	0.227	0.288
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 3	ECI 5	376000	1880	16.49	17.50	1.262	-	-	-0.03	0.039	0.049
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 3	ECI 5	376000	1880	16.47	17.50	1.268	-	-	0.05	0.038	0.048
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 5	ECI 5	376000	1880	19.05	20.00	1.245	-	-	-0.12	0.163	0.203
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 5	ECI 5	376000	1880	19.03	20.00	1.250	-	-	0.07	0.167	0.209
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 5	ECI 5	376000	1880	19.05	20.00	1.245	-	-	0.15	0.245	0.305
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 5	ECI 5	376000	1880	19.03	20.00	1.250	-	-	-0.05	0.258	0.323
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 5	ECI 5	376000	1880	19.05	20.00	1.245	-	-	-0.04	0.401	0.499
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 5	ECI 5	376000	1880	19.03	20.00	1.250	-	-	-0.11	0.370	0.463
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 5	ECI 5	376000	1880	19.05	20.00	1.245	-	-	-0.01	0.223	0.278
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	21100	2535	16.72	17.20	1.117	-	-	0.12	0.146	0.163
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	21100	2535	16.69	17.20	1.125	-	-	0.08	0.153	0.172
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	21100	2535	16.72	17.20	1.117	-	-	-0.17	0.163	0.182
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	21100	2535	16.69	17.20	1.125	-	-	-0.03	0.162	0.182
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	21100	2535	16.72	17.20	1.117	-	-	0.14	0.081	0.090
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	21100	2535	16.69	17.20	1.125	-	-	0.11	0.075	0.084
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	21100	2535	16.72	17.20	1.117	-	-	-0.05	0.162	0.181
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 5	21100	2535	16.69	17.20	1.125	-	-	0.18	0.148	0.166
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	21100	2535	16.55	17.20	1.161	-	-	0.14	0.156	0.181
	LTE Band 7C	20M	QPSK	1	99	-	Back	10mm	Ant 4	ECI 5	21100+ 21298	2535+ 2554.8	16.50	17.20	1.175	-	-	0.02	0.146	0.172
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	21100	2535	21.16	21.70	1.132	-	-	0.07	0.239	0.271
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 5	21100	2535	21.12	21.70	1.143	-	-	0.09	0.273	0.312
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	21100	2535	21.16	21.70	1.132	-	-	0.04	0.377	0.427
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	21100	2535	21.12	21.70	1.143	-	-	0.11	0.368	0.421
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 5	21100	2535	21.16	21.70	1.132	-	-	-0.13	0.091	0.103
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 5	21100	2535	21.12	21.70	1.143	-	-	0.12	0.092	0.105
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	21100	2535	21.16	21.70	1.132	-	-	-0.11	0.373	0.422
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	21100	2535	21.12	21.70	1.143	-	-	-0.03	0.399	0.456
	LTE Band 7_Other PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	21100	2535	20.47	21.50	1.268	-	-	-0.16	0.327	0.415
	LTE Band 7C	20M	QPSK	1	99	-	Bottom Side	10mm	Ant 2	ECI 5	21100+ 21298	2535+ 2554.8	21.06	21.70	1.159	-	-	0.02	0.375	0.435
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECI 5	21100	2535	18.66	20.00	1.361	-	-	-0.17	0.145	0.197
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECI 5	21100	2535	18.64	20.00	1.368	-	-	0.17	0.155	0.212
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 5	21100	2535	18.66	20.00	1.361	-	-	-0.05	0.238	0.324
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 3	ECI 5	21100	2535	18.64	20.00	1.368	-	-	0.01	0.237	0.324
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	21100	2535	18.66	20.00	1.361	-	-	0.1	0.266	0.362
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECI 5	21100	2535	18.64	20.00	1.368	-	-	-0.17	0.290	0.397
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECI 5	21100	2535	18.66	20.00	1.361	-	-	0.04	0.054	0.074
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECI 5	21100	2535	18.64	20.00	1.368	-	-	-0.01	0.054	0.074
	LTE Band 7_Other PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECI 5	21100	2535	18.52	19.70	1.312	-	-	-0.08	0.233	0.306
	LTE Band 7C	20M	QPSK	1	99	-	Left Side	10mm	Ant 3	ECI 5	21100+ 21298	2535+ 2554.8	18.49	20.00	1.416	-	-	0.02	0.267	0.378
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECI 5	21100	2535	19.97	21.50	1.422	-	-	0.08	0.181	0.257
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECI 5	21100	2535	19.94	21.50	1.432	-	-	0.01	0.177	0.253
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 5	21100	2535	19.97	21.50	1.422	-	-	0.03	0.282	0.401
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 5	21100	2535	19.94	21.50	1.432	-	-	-0.08	0.270	0.387
45	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	21100	2535	19.97	21.50	1.422	-	-	-0.03	0.448	0.637
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	21100	2535	19.94	21.50	1.432	-	-	-0.08	0.432	0.619



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	LTE Band 7_Other PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	21100	2535	19.75	21.00	1.334	-	-	0.1	0.384	0.512
	LTE Band 7C	20M	QPSK	1	99	-	Right Side	10mm	Ant 5	ECI 5	21100+ 21298	2535+ 2554.8	19.89	21.50	1.449	-	-	0.05	0.416	0.603
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	38000	2595	18.95	19.70	1.189	62.9	1.006	0.05	0.144	0.172
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	38000	2595	18.92	19.70	1.197	62.9	1.006	0.06	0.151	0.182
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	38000	2595	18.95	19.70	1.189	62.9	1.006	-0.09	0.169	0.202
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	38000	2595	18.92	19.70	1.197	62.9	1.006	-0.08	0.166	0.200
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	38000	2595	18.95	19.70	1.189	62.9	1.006	0.13	0.069	0.082
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	38000	2595	18.92	19.70	1.197	62.9	1.006	0.12	0.070	0.084
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	38000	2595	18.95	19.70	1.189	62.9	1.006	0.16	0.193	0.231
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 5	38000	2595	18.92	19.70	1.197	62.9	1.006	0.18	0.186	0.224
	LTE Band 38	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	38000	2595	17.07	17.70	1.156	62.9	1.006	0.16	0.137	0.159
	LTE Band 38C	20M	QPSK	1	99	-	Top Side	10mm	Ant 4	ECI 5	37901+ 38099	2585.1+ 2604.9	16.85	17.70	1.216	62.9	1.006	0.01	0.122	0.149
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	38000	2595	22.39	23.50	1.291	62.9	1.006	-0.17	0.200	0.260
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 5	38000	2595	22.35	23.50	1.303	62.9	1.006	0.11	0.224	0.294
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	38000	2595	22.39	23.50	1.291	62.9	1.006	-0.05	0.312	0.405
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	38000	2595	22.35	23.50	1.303	62.9	1.006	-0.01	0.300	0.393
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 5	38000	2595	22.39	23.50	1.291	62.9	1.006	-0.14	0.066	0.086
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 5	38000	2595	22.35	23.50	1.303	62.9	1.006	-0.15	0.075	0.098
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	38000	2595	22.39	23.50	1.291	62.9	1.006	-0.12	0.312	0.405
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	38000	2595	22.35	23.50	1.303	62.9	1.006	-0.02	0.323	0.423
	LTE Band 38	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	38000	2595	20.95	21.70	1.189	62.9	1.006	-0.02	0.225	0.269
	LTE Band 38C	20M	QPSK	1	99	-	Bottom Side	10mm	Ant 2	ECI 5	37901+ 38099	2585.1+ 2604.9	20.83	21.70	1.222	62.9	1.006	0.06	0.206	0.253
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECI 5	38000	2595	19.17	20.50	1.358	62.9	1.006	-0.1	0.117	0.160
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECI 5	38000	2595	19.16	20.50	1.361	62.9	1.006	0.07	0.121	0.166
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 5	38000	2595	19.17	20.50	1.358	62.9	1.006	0.18	0.187	0.256
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 3	ECI 5	38000	2595	19.16	20.50	1.361	62.9	1.006	-0.1	0.203	0.278
	LTE Band 38	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	38000	2595	19.17	20.50	1.358	62.9	1.006	0.01	0.230	0.314
	LTE Band 38	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECI 5	38000	2595	19.16	20.50	1.361	62.9	1.006	-0.15	0.215	0.294
	LTE Band 38	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECI 5	38000	2595	19.17	20.50	1.358	62.9	1.006	0.19	0.051	0.070
	LTE Band 38	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECI 5	38000	2595	19.16	20.50	1.361	62.9	1.006	0.07	0.053	0.073
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	38000	2595	18.69	20.20	1.416	62.9	1.006	-0.18	0.198	0.282
	LTE Band 38C	20M	QPSK	1	99	-	Left Side	10mm	Ant 3	ECI 5	37901+ 38099	2585.1+ 2604.9	18.93	20.50	1.435	62.9	1.006	0.05	0.206	0.297
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECI 5	38000	2595	22.27	23.50	1.327	62.9	1.006	-0.18	0.127	0.170
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECI 5	38000	2595	21.30	22.50	1.318	62.9	1.006	0.1	0.111	0.147
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 5	38000	2595	22.27	23.50	1.327	62.9	1.006	0.12	0.221	0.295
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 5	38000	2595	21.30	22.50	1.318	62.9	1.006	0.08	0.190	0.252
46	LTE Band 38	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	38000	2595	22.27	23.50	1.327	62.9	1.006	0.01	0.342	0.457
	LTE Band 38	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	38000	2595	21.30	22.50	1.318	62.9	1.006	-0.17	0.293	0.389
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	38000	2595	22.24	23.50	1.337	62.9	1.006	-0.03	0.288	0.387
	LTE Band 38C	20M	QPSK	1	99	-	Right Side	10mm	Ant 5	ECI 5	37901+ 38099	2585.1+ 2604.9	21.89	23.50	1.449	62.9	1.006	0.01	0.289	0.421
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	40620	2593	18.87	19.70	1.211	62.9	1.006	0.01	0.107	0.130
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	40620	2593	18.76	19.70	1.242	62.9	1.006	0.02	0.114	0.142
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	40620	2593	18.87	19.70	1.211	62.9	1.006	-0.11	0.129	0.157
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	40620	2593	18.76	19.70	1.242	62.9	1.006	-0.01	0.126	0.157
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	40620	2593	18.87	19.70	1.211	62.9	1.006	0.09	0.048	0.058
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	40620	2593	18.76	19.70	1.242	62.9	1.006	0.1	0.051	0.064
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	40620	2593	18.87	19.70	1.211	62.9	1.006	-0.01	0.149	0.181
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 5	40620	2593	18.76	19.70	1.242	62.9	1.006	0.15	0.145	0.181
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	40620	2593	17.18	17.70	1.127	62.9	1.006	-0.01	0.103	0.117
	LTE Band 41C	20M	QPSK	1	99	-	Top Side	10mm	Ant 4	ECI 5	40620+ 40818	2593+ 2612.8	16.74	17.70	1.247	62.9	1.006	0.01	0.085	0.107
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	40620	2593	22.65	23.50	1.216	62.9	1.006	0.05	0.346	0.423
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 5	40620	2593	22.63	23.50	1.222	62.9	1.006	0.08	0.393	0.483
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	40620	2593	22.65	23.50	1.216	62.9	1.006	-0.18	0.554	0.678
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	39750	2506	22.38	23.50	1.294	62.9	1.006	0.08	0.512	0.667
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	40185	2549.5	22.48	23.50	1.265	62.9	1.006	-0.17	0.521	0.663



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	LTE Band 41_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	41055	2636.5	22.51	23.50	1.256	62.9	1.006	-0.03	0.509	0.643
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	41490	2680	22.54	23.50	1.247	62.9	1.006	0.14	0.511	0.641
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	40620	2593	22.63	23.50	1.222	62.9	1.006	-0.03	0.531	0.653
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	39750	2506	22.41	23.50	1.285	62.9	1.006	0.11	0.516	0.667
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	40185	2549.5	22.50	23.50	1.259	62.9	1.006	-0.05	0.509	0.645
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	41055	2636.5	22.45	23.50	1.274	62.9	1.006	0.18	0.504	0.646
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	41490	2680	22.55	23.50	1.245	62.9	1.006	0.14	0.485	0.607
	LTE Band 41_Other PA	20M	QPSK	100	0	-	Back	10mm	Ant 2	ECI 5	40620	2593	22.52	23.50	1.253	62.9	1.006	-0.17	0.493	0.622
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 5	40620	2593	22.65	23.50	1.216	62.9	1.006	-0.04	0.118	0.144
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 5	40620	2593	22.63	23.50	1.222	62.9	1.006	-0.09	0.133	0.163
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	40620	2593	22.65	23.50	1.216	62.9	1.006	0.18	0.542	0.663
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	39750	2506	22.38	23.50	1.294	62.9	1.006	0.17	0.514	0.669
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	40185	2549.5	22.48	23.50	1.265	62.9	1.006	-0.05	0.521	0.663
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	41055	2636.5	22.51	23.50	1.256	62.9	1.006	0.01	0.529	0.668
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	41490	2680	22.54	23.50	1.247	62.9	1.006	0.1	0.500	0.627
47	LTE Band 41_Other PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	40620	2593	22.63	23.50	1.222	62.9	1.006	0.11	0.572	0.703
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	39750	2506	22.41	23.50	1.285	62.9	1.006	-0.17	0.536	0.693
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	40185	2549.5	22.50	23.50	1.259	62.9	1.006	0.04	0.548	0.694
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	41055	2636.5	22.45	23.50	1.274	62.9	1.006	-0.01	0.532	0.682
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	41490	2680	22.55	23.50	1.245	62.9	1.006	-0.08	0.529	0.662
	LTE Band 41_Other PA	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	ECI 5	40620	2593	22.52	23.50	1.253	62.9	1.006	0.05	0.515	0.649
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	40620	2593	20.97	21.70	1.183	62.9	1.006	-0.02	0.387	0.461
	LTE Band 41C	20M	QPSK	1	99	-	Bottom Side	10mm	Ant 2	ECI 5	40620+ 40818	2593+ 2612.8	20.87	21.70	1.211	62.9	1.006	0.06	0.366	0.446
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECI 5	40620	2593	19.20	20.50	1.349	62.9	1.006	0.03	0.126	0.171
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECI 5	40620	2593	19.17	20.50	1.358	62.9	1.006	-0.15	0.132	0.180
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 5	40620	2593	19.20	20.50	1.349	62.9	1.006	-0.15	0.194	0.263
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 3	ECI 5	40620	2593	19.17	20.50	1.358	62.9	1.006	0.11	0.136	0.186
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	40620	2593	19.20	20.50	1.349	62.9	1.006	-0.12	0.226	0.307
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECI 5	40620	2593	19.17	20.50	1.358	62.9	1.006	-0.17	0.218	0.298
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECI 5	40620	2593	19.20	20.50	1.349	62.9	1.006	-0.08	0.062	0.084
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECI 5	40620	2593	19.17	20.50	1.358	62.9	1.006	-0.04	0.045	0.061
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	40620	2593	19.08	20.70	1.452	62.9	1.006	-0.08	0.205	0.299
	LTE Band 41C	20M	QPSK	1	99	-	Left Side	10mm	Ant 3	ECI 5	40620+ 40818	2593+ 2612.8	18.97	20.50	1.422	62.9	1.006	0.06	0.195	0.279
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECI 5	40620	2593	20.84	22.50	1.466	62.9	1.006	0.08	0.170	0.251
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECI 5	40620	2593	20.82	22.50	1.472	62.9	1.006	0.01	0.168	0.249
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 5	40620	2593	20.84	22.50	1.466	62.9	1.006	0.03	0.309	0.456
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 5	40620	2593	20.82	22.50	1.472	62.9	1.006	-0.08	0.299	0.443
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	40620	2593	20.84	22.50	1.466	62.9	1.006	-0.03	0.451	0.665
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	39750	2506	20.63	22.50	1.538	62.9	1.006	0.06	0.428	0.662
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	40185	2549.5	20.77	22.50	1.489	62.9	1.006	-0.09	0.426	0.638
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	41055	2636.5	20.62	22.50	1.542	62.9	1.006	-0.08	0.415	0.644
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	41490	2680	20.62	22.50	1.542	62.9	1.006	0.13	0.408	0.633
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	40620	2593	20.82	22.50	1.472	62.9	1.006	-0.08	0.431	0.638
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	39750	2506	20.67	22.50	1.524	62.9	1.006	0.12	0.421	0.645
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	40185	2549.5	20.70	22.50	1.514	62.9	1.006	0.03	0.419	0.638
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	41055	2636.5	20.73	22.50	1.503	62.9	1.006	0.18	0.411	0.621
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	41490	2680	20.63	22.50	1.538	62.9	1.006	0.16	0.409	0.633
	LTE Band 41_Other PA	20M	QPSK	100	0	-	Right Side	10mm	Ant 5	ECI 5	40620	2593	20.82	22.50	1.472	62.9	1.006	-0.1	0.403	0.597
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	40620	2593	18.61	20.00	1.377	62.9	1.006	-0.03	0.276	0.382
	LTE Band 41C	20M	QPSK	1	99	-	Right Side	10mm	Ant 5	ECI 5	40620+ 40818	2593+ 2612.8	18.47	20.00	1.422	62.9	1.006	0.01	0.245	0.351
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 4	ECI 5	507000	2535	17.11	17.20	1.021	-	-	0.17	0.118	0.120
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	10mm	Ant 4	ECI 5	507000	2535	17.05	17.20	1.035	-	-	0.18	0.120	0.124
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 4	ECI 5	507000	2535	17.11	17.20	1.021	-	-	-0.04	0.125	0.128
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	10mm	Ant 4	ECI 5	507000	2535	17.05	17.20	1.035	-	-	-0.08	0.141	0.146
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 4	ECI 5	507000	2535	17.11	17.20	1.021	-	-	-0.13	0.048	0.049



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	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Side	10mm	Ant 4	ECI 5	507000	2535	17.05	17.20	1.035	-	-	-0.13	0.050	0.052
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 4	ECI 5	507000	2535	17.11	17.20	1.021	-	-	0.06	0.132	0.135
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Top Side	10mm	Ant 4	ECI 5	507000	2535	17.05	17.20	1.035	-	-	-0.03	0.142	0.147
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	ECI 5	507000	2535	20.45	21.20	1.189	-	-	0.09	0.213	0.253
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	10mm	Ant 2	ECI 5	507000	2535	20.41	21.20	1.199	-	-	-0.08	0.222	0.266
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	ECI 5	507000	2535	20.45	21.20	1.189	-	-	-0.05	0.316	0.376
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	10mm	Ant 2	ECI 5	507000	2535	20.41	21.20	1.199	-	-	-0.03	0.306	0.367
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	ECI 5	507000	2535	20.45	21.20	1.189	-	-	0.17	0.085	0.101
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Side	10mm	Ant 2	ECI 5	507000	2535	20.41	21.20	1.199	-	-	-0.14	0.081	0.097
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	ECI 5	507000	2535	20.45	21.20	1.189	-	-	0.06	0.325	0.386
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	ECI 5	507000	2535	20.41	21.20	1.199	-	-	-0.04	0.355	0.426
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 3	ECI 5	507000	2535	18.81	19.70	1.227	-	-	-0.15	0.164	0.201
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	10mm	Ant 3	ECI 5	507000	2535	18.79	19.70	1.233	-	-	-0.12	0.179	0.221
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 3	ECI 5	507000	2535	18.81	19.70	1.227	-	-	-0.16	0.277	0.340
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	10mm	Ant 3	ECI 5	507000	2535	18.79	19.70	1.233	-	-	-0.03	0.321	0.396
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 3	ECI 5	507000	2535	18.81	19.70	1.227	-	-	0.17	0.282	0.346
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Side	10mm	Ant 3	ECI 5	507000	2535	18.79	19.70	1.233	-	-	-0.07	0.327	0.403
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 3	ECI 5	507000	2535	18.81	19.70	1.227	-	-	0.18	0.061	0.075
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Top Side	10mm	Ant 3	ECI 5	507000	2535	18.79	19.70	1.233	-	-	-0.11	0.065	0.080
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 5	ECI 5	507000	2535	18.69	20.00	1.352	-	-	-0.04	0.184	0.249
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	10mm	Ant 5	ECI 5	507000	2535	18.67	20.00	1.358	-	-	-0.08	0.218	0.296
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 5	ECI 5	507000	2535	18.69	20.00	1.352	-	-	0.16	0.291	0.393
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	10mm	Ant 5	ECI 5	507000	2535	18.67	20.00	1.358	-	-	-0.14	0.383	0.520
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 5	ECI 5	507000	2535	18.69	20.00	1.352	-	-	0.01	0.402	0.544
48	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Side	10mm	Ant 5	ECI 5	507000	2535	18.67	20.00	1.358	-	-	-0.02	0.483	0.656
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	ECI 5	519000	2595	17.15	17.20	1.012	-	-	-0.02	0.055	0.056
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 4	ECI 5	519000	2595	17.13	17.20	1.016	-	-	0.15	0.053	0.054
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	ECI 5	519000	2595	17.15	17.20	1.012	-	-	-0.09	0.077	0.078
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 4	ECI 5	519000	2595	17.13	17.20	1.016	-	-	0.11	0.074	0.075
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 4	ECI 5	519000	2595	17.15	17.20	1.012	-	-	-0.05	0.036	0.036
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 4	ECI 5	519000	2595	17.13	17.20	1.016	-	-	-0.08	0.042	0.043
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 4	ECI 5	519000	2595	17.15	17.20	1.012	-	-	0.16	0.119	0.120
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 4	ECI 5	519000	2595	17.13	17.20	1.016	-	-	0.05	0.156	0.159
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	ECI 5	519000	2595	21.73	22.20	1.114	-	-	0.06	0.355	0.396
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 2	ECI 5	519000	2595	21.70	22.20	1.122	-	-	-0.02	0.331	0.371
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	ECI 5	519000	2595	21.73	22.20	1.114	-	-	0.07	0.513	0.572
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 2	ECI 5	519000	2595	21.70	22.20	1.122	-	-	-0.17	0.458	0.514
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	ECI 5	519000	2595	21.73	22.20	1.114	-	-	0.1	0.141	0.157
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 2	ECI 5	519000	2595	21.70	22.20	1.122	-	-	0.08	0.115	0.129
49	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	ECI 5	519000	2595	21.73	22.20	1.114	-	-	-0.03	0.541	0.603
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	ECI 5	519000	2595	21.70	22.20	1.122	-	-	-0.13	0.480	0.539
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	ECI 5	519000	2595	17.55	18.50	1.245	-	-	0.05	0.133	0.166
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 3	ECI 5	519000	2595	17.52	18.50	1.253	-	-	-0.03	0.142	0.178
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	ECI 5	519000	2595	17.55	18.50	1.245	-	-	-0.15	0.230	0.286
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 3	ECI 5	519000	2595	17.52	18.50	1.253	-	-	0.02	0.232	0.291
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	ECI 5	519000	2595	17.55	18.50	1.245	-	-	0.07	0.226	0.281
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 3	ECI 5	519000	2595	17.52	18.50	1.253	-	-	0.16	0.282	0.353
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 3	ECI 5	519000	2595	17.55	18.50	1.245	-	-	0.13	0.051	0.063
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 3	ECI 5	519000	2595	17.52	18.50	1.253	-	-	-0.18	0.051	0.064
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	ECI 5	519000	2595	19.53	20.50	1.250	-	-	-0.07	0.149	0.186
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 5	ECI 5	519000	2595	19.51	20.50	1.256	-	-	0.11	0.180	0.226
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	ECI 5	519000	2595	19.53	20.50	1.250	-	-	-0.17	0.247	0.309
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 5	ECI 5	519000	2595	19.51	20.50	1.256	-	-	0.01	0.315	0.396
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	ECI 5	519000	2595	19.53	20.50	1.250	-	-	0.1	0.314	0.393
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	10mm	Ant 5	ECI 5	519000	2595	19.51	20.50	1.256	-	-	-0.03	0.390	0.490
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	ECI 5	518598	2592.99	16.33	17.00	1.167	-	-	0.18	0.091	0.106



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	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 4	ECI 5	518598	2592.99	16.28	17.00	1.180	-	-	0.12	0.098	0.116
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	ECI 5	518598	2592.99	16.33	17.00	1.167	-	-	0.07	0.109	0.127
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 4	ECI 5	518598	2592.99	16.28	17.00	1.180	-	-	0.15	0.127	0.150
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 4	ECI 5	518598	2592.99	16.33	17.00	1.167	-	-	0.14	0.033	0.039
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 4	ECI 5	518598	2592.99	16.28	17.00	1.180	-	-	-0.03	0.041	0.048
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 4	ECI 5	518598	2592.99	16.33	17.00	1.167	-	-	-0.14	0.120	0.140
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 4	ECI 5	518598	2592.99	16.28	17.00	1.180	-	-	-0.15	0.134	0.158
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 4	ECI 5	518598	2592.99	19.32	20.00	1.169	50	1.000	0.07	0.133	0.156
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	ECI 5	518598	2592.99	19.93	21.50	1.435	-	-	-0.04	0.244	0.350
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	ECI 5	518598	2592.99	19.91	21.50	1.442	-	-	-0.18	0.223	0.322
50	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	ECI 5	518598	2592.99	19.93	21.50	1.435	-	-	-0.06	0.376	0.540
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	ECI 5	518598	2592.99	19.91	21.50	1.442	-	-	-0.13	0.317	0.457
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	ECI 5	518598	2592.99	19.93	21.50	1.435	-	-	0.13	0.083	0.119
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	ECI 5	518598	2592.99	19.91	21.50	1.442	-	-	-0.04	0.072	0.104
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	ECI 5	518598	2592.99	19.93	21.50	1.435	-	-	-0.15	0.372	0.534
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	ECI 5	518598	2592.99	19.91	21.50	1.442	-	-	-0.09	0.337	0.486
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	ECI 5	518598	2592.99	22.84	24.50	1.466	50	1.000	0.05	0.363	0.532
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	ECI 5	518598	2592.99	16.71	18.00	1.346	-	-	0.02	0.070	0.094
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	ECI 5	518598	2592.99	16.68	18.00	1.355	-	-	0.16	0.089	0.121
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	ECI 5	518598	2592.99	16.71	18.00	1.346	-	-	-0.03	0.112	0.151
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	ECI 5	518598	2592.99	16.68	18.00	1.355	-	-	0.07	0.149	0.202
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	ECI 5	518598	2592.99	16.71	18.00	1.346	-	-	-0.12	0.134	0.180
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	ECI 5	518598	2592.99	16.68	18.00	1.355	-	-	0.01	0.144	0.195
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 3	ECI 5	518598	2592.99	16.71	18.00	1.346	-	-	-0.01	0.100	0.135
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 3	ECI 5	518598	2592.99	16.68	18.00	1.355	-	-	-0.06	0.005	0.007
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	ECI 5	518598	2592.99	19.72	21.00	1.343	50	1.000	-0.04	0.141	0.189
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	ECI 5	518598	2592.99	17.07	18.50	1.390	-	-	0.15	0.124	0.172
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	ECI 5	518598	2592.99	17.05	18.50	1.396	-	-	-0.05	0.139	0.194
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	ECI 5	518598	2592.99	17.07	18.50	1.390	-	-	-0.07	0.201	0.279
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	ECI 5	518598	2592.99	17.05	18.50	1.396	-	-	0.1	0.231	0.323
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	ECI 5	518598	2592.99	17.07	18.50	1.390	-	-	-0.11	0.270	0.375
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 5	ECI 5	518598	2592.99	17.05	18.50	1.396	-	-	-0.1	0.290	0.405
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 5	ECI 5	518598	2592.99	20.02	21.50	1.406	50	1.000	0.14	0.285	0.401
3500MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 6	ECI 5	42590	3500	19.63	20.20	1.140	62.9	1.006	-0.09	0.073	0.084
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 6	ECI 5	42590	3500	19.61	20.20	1.146	62.9	1.006	-0.17	0.078	0.090
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 6	ECI 5	42590	3500	19.63	20.20	1.140	62.9	1.006	-0.1	0.168	0.193
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 6	ECI 5	42590	3500	19.61	20.20	1.146	62.9	1.006	0.18	0.173	0.199
	LTE Band 42	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	ECI 5	42590	3500	19.63	20.20	1.140	62.9	1.006	-0.17	0.010	0.011
	LTE Band 42	20M	QPSK	50	0	-	Right Side	10mm	Ant 6	ECI 5	42590	3500	19.61	20.20	1.146	62.9	1.006	-0.04	0.006	0.007
	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 6	ECI 5	42590	3500	19.63	20.20	1.140	62.9	1.006	-0.02	0.291	0.334
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 6	ECI 5	42590	3500	19.61	20.20	1.146	62.9	1.006	0.04	0.256	0.295
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 8	ECI 5	42590	3500	19.87	21.50	1.455	62.9	1.006	-0.05	0.133	0.195
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 8	ECI 5	42590	3500	19.82	21.50	1.472	62.9	1.006	-0.04	0.131	0.194
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 8	ECI 5	42590	3500	19.87	21.50	1.455	62.9	1.006	0.14	0.304	0.445
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 8	ECI 5	42590	3500	19.82	21.50	1.472	62.9	1.006	0.03	0.302	0.447
51	LTE Band 42	20M	QPSK	1	0	-	Left Side	10mm	Ant 8	ECI 5	42590	3500	19.87	21.50	1.455	62.9	1.006	-0.13	0.382	0.559
	LTE Band 42	20M	QPSK	50	0	-	Left Side	10mm	Ant 8	ECI 5	42590	3500	19.82	21.50	1.472	62.9	1.006	0.01	0.376	0.557
	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 8	ECI 5	42590	3500	19.87	21.50	1.455	62.9	1.006	-0.06	0.142	0.208
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 8	ECI 5	42590	3500	19.82	21.50	1.472	62.9	1.006	0.14	0.145	0.215
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 7	ECI 5	42590	3500	19.22	20.50	1.343	62.9	1.006	-0.09	0.089	0.120
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 7	ECI 5	42590	3500	19.20	20.50	1.349	62.9	1.006	-0.04	0.088	0.119
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 7	ECI 5	42590	3500	19.22	20.50	1.343	62.9	1.006	-0.15	0.157	0.212
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 7	ECI 5	42590	3500	19.20	20.50	1.349	62.9	1.006	0.11	0.152	0.206
	LTE Band 42	20M	QPSK	1	0	-	Right Side	10mm	Ant 7	ECI 5	42590	3500	19.22	20.50	1.343	62.9	1.006	-0.02	0.229	0.309
	LTE Band 42	20M	QPSK	50	0	-	Right Side	10mm	Ant 7	ECI 5	42590	3500	19.20	20.50	1.349	62.9	1.006	0.1	0.228	0.309



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	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 7	ECI 5	42590	3500	19.22	20.50	1.343	62.9	1.006	0.04	0.081	0.109
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 7	ECI 5	42590	3500	19.20	20.50	1.349	62.9	1.006	0.13	0.060	0.081
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 9	ECI 5	42590	3500	17.69	19.00	1.352	62.9	1.006	-0.09	0.039	0.053
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 9	ECI 5	42590	3500	17.66	19.00	1.361	62.9	1.006	-0.12	0.026	0.036
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECI 5	42590	3500	17.69	19.00	1.352	62.9	1.006	-0.01	0.285	0.388
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 9	ECI 5	42590	3500	17.66	19.00	1.361	62.9	1.006	-0.19	0.281	0.385
	LTE Band 42	20M	QPSK	1	0	-	Left Side	10mm	Ant 9	ECI 5	42590	3500	17.69	19.00	1.352	62.9	1.006	0.09	0.085	0.116
	LTE Band 42	20M	QPSK	50	0	-	Left Side	10mm	Ant 9	ECI 5	42590	3500	17.66	19.00	1.361	62.9	1.006	0.13	0.083	0.114
	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 9	ECI 5	42590	3500	17.69	19.00	1.352	62.9	1.006	-0.08	0.041	0.056
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 9	ECI 5	42590	3500	17.66	19.00	1.361	62.9	1.006	0.08	0.037	0.051
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 6	ECI 5	55830	3609	18.18	18.70	1.127	62.9	1.006	0.02	0.090	0.102
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 6	ECI 5	55830	3609	18.16	18.70	1.132	62.9	1.006	0.12	0.090	0.103
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 6	ECI 5	55830	3609	18.18	18.70	1.127	62.9	1.006	-0.16	0.191	0.217
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 6	ECI 5	55830	3609	18.16	18.70	1.132	62.9	1.006	-0.12	0.176	0.200
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	ECI 5	55830	3609	18.18	18.70	1.127	62.9	1.006	0.07	0.000	0.000
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 6	ECI 5	55830	3609	18.16	18.70	1.132	62.9	1.006	-0.02	0.060	0.068
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 6	ECI 5	55830	3609	18.18	18.70	1.127	62.9	1.006	-0.05	0.300	0.340
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 6	ECI 5	55830	3609	18.16	18.70	1.132	62.9	1.006	-0.01	0.303	0.345
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 8	ECI 5	55830	3609	19.56	21.00	1.393	62.9	1.006	0.08	0.095	0.133
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 8	ECI 5	55830	3609	19.53	21.00	1.403	62.9	1.006	0.16	0.108	0.152
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 8	ECI 5	55830	3609	19.56	21.00	1.393	62.9	1.006	0.01	0.235	0.329
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 8	ECI 5	55830	3609	19.53	21.00	1.403	62.9	1.006	-0.16	0.233	0.329
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 8	ECI 5	55830	3609	19.56	21.00	1.393	62.9	1.006	0.1	0.171	0.240
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 8	ECI 5	55830	3609	19.53	21.00	1.403	62.9	1.006	-0.04	0.169	0.238
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 8	ECI 5	55830	3609	19.56	21.00	1.393	62.9	1.006	-0.01	0.098	0.137
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 8	ECI 5	55830	3609	19.53	21.00	1.403	62.9	1.006	-0.04	0.100	0.141
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 7	ECI 5	55830	3609	17.20	18.50	1.349	62.9	1.006	-0.11	0.077	0.104
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 7	ECI 5	55830	3609	17.15	18.50	1.365	62.9	1.006	-0.06	0.074	0.102
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	ECI 5	55830	3609	17.20	18.50	1.349	62.9	1.006	-0.15	0.140	0.190
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 7	ECI 5	55830	3609	17.15	18.50	1.365	62.9	1.006	0.03	0.137	0.188
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 7	ECI 5	55830	3609	17.20	18.50	1.349	62.9	1.006	-0.13	0.205	0.278
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 7	ECI 5	55830	3609	17.15	18.50	1.365	62.9	1.006	0.16	0.200	0.275
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 7	ECI 5	55830	3609	17.20	18.50	1.349	62.9	1.006	-0.15	0.061	0.083
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 7	ECI 5	55830	3609	17.15	18.50	1.365	62.9	1.006	-0.02	0.054	0.074
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 9	ECI 5	55830	3609	19.13	20.50	1.371	62.9	1.006	0.12	0.071	0.098
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 9	ECI 5	55830	3609	19.10	20.50	1.380	62.9	1.006	0.09	0.065	0.090
52	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECI 5	55830	3609	19.13	20.50	1.371	62.9	1.006	0.06	0.612	0.844
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECI 5	55340	3560	19.06	20.50	1.393	62.9	1.006	0.03	0.600	0.841
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECI 5	56150	3641	19.12	20.50	1.374	62.9	1.006	-0.08	0.582	0.804
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECI 5	56640	3690	19.07	20.50	1.390	62.9	1.006	-0.08	0.559	0.782
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 9	ECI 5	55830	3609	19.10	20.50	1.380	62.9	1.006	-0.16	0.587	0.815
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 9	ECI 5	55340	3560	18.95	20.50	1.429	62.9	1.006	0.1	0.574	0.825
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 9	ECI 5	56150	3641	19.02	20.50	1.406	62.9	1.006	-0.18	0.566	0.801
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 9	ECI 5	56640	3690	19.04	20.50	1.400	62.9	1.006	0.1	0.512	0.721
	LTE Band 48	20M	QPSK	100	0	-	Back	10mm	Ant 9	ECI 5	55830	3609	19.08	20.50	1.387	62.9	1.006	0.12	0.525	0.732
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 9	ECI 5	55830	3609	19.13	20.50	1.371	62.9	1.006	-0.03	0.147	0.203
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 9	ECI 5	55830	3609	19.10	20.50	1.380	62.9	1.006	-0.06	0.140	0.194
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 9	ECI 5	55830	3609	19.13	20.50	1.371	62.9	1.006	0.08	0.054	0.074
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 9	ECI 5	55830	3609	19.10	20.50	1.380	62.9	1.006	-0.07	0.044	0.061
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	ECI 5	641666	3624.99	15.52	15.70	1.042	-	-	0.11	0.083	0.087
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 6	ECI 5	641666	3624.99	15.49	15.70	1.050	-	-	-0.13	0.077	0.081
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	ECI 5	641666	3624.99	15.52	15.70	1.042	-	-	0.04	0.161	0.168
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 6	ECI 5	641666	3624.99	15.49	15.70	1.050	-	-	0.17	0.156	0.164
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 6	ECI 5	641666	3624.99	15.52	15.70	1.042	-	-	-0.1	0.035	0.036
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	10mm	Ant 6	ECI 5	641666	3624.99	15.49	15.70	1.050	-	-	0.17	0.038	0.040
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	641666	3624.99	15.52	15.70	1.042	-	-	-0.15	0.229	0.239



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	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	641666	3624.99	15.49	15.70	1.050	-	-	0.05	0.267	0.280
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 8	ECI 5	641666	3624.99	14.75	15.50	1.189	-	-	-0.09	0.050	0.059
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 8	ECI 5	641666	3624.99	14.71	15.50	1.199	-	-	0.14	0.045	0.054
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 8	ECI 5	641666	3624.99	14.75	15.50	1.189	-	-	0.1	0.171	0.203
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 8	ECI 5	641666	3624.99	14.71	15.50	1.199	-	-	-0.09	0.169	0.203
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	641666	3624.99	14.75	15.50	1.189	-	-	0.07	0.144	0.171
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	641666	3624.99	14.71	15.50	1.199	-	-	-0.09	0.118	0.142
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 8	ECI 5	641666	3624.99	14.75	15.50	1.189	-	-	-0.16	0.047	0.056
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 8	ECI 5	641666	3624.99	14.71	15.50	1.199	-	-	-0.18	0.043	0.052
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 7	ECI 5	641666	3624.99	15.61	16.50	1.227	-	-	0.04	0.119	0.146
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 7	ECI 5	641666	3624.99	15.58	16.50	1.236	-	-	0.15	0.115	0.142
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 7	ECI 5	641666	3624.99	15.61	16.50	1.227	-	-	0.03	0.202	0.248
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 7	ECI 5	641666	3624.99	15.58	16.50	1.236	-	-	-0.1	0.200	0.247
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	641666	3624.99	15.61	16.50	1.227	-	-	0.14	0.238	0.292
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	641666	3624.99	15.58	16.50	1.236	-	-	-0.06	0.247	0.305
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 7	ECI 5	641666	3624.99	15.61	16.50	1.227	-	-	0.1	0.082	0.101
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 7	ECI 5	641666	3624.99	15.58	16.50	1.236	-	-	-0.1	0.077	0.095
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 9	ECI 5	641666	3624.99	15.89	16.50	1.151	-	-	-0.05	0.041	0.047
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 9	ECI 5	641666	3624.99	15.88	16.50	1.153	-	-	-0.04	0.030	0.035
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	641666	3624.99	15.89	16.50	1.151	-	-	0.01	0.524	0.603
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	641666	3624.99	15.88	16.50	1.153	-	-	-0.11	0.723	0.834
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	638000	3570	15.78	16.50	1.180	-	-	-0.16	0.703	0.830
53	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	645332	3679.98	15.64	16.50	1.219	-	-	0.01	0.732	0.892
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	641666	3624.99	15.77	16.50	1.183	-	-	0.06	0.688	0.814
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 9	ECI 5	641666	3624.99	15.89	16.50	1.151	-	-	0.15	0.133	0.153
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 9	ECI 5	641666	3624.99	15.88	16.50	1.153	-	-	-0.1	0.132	0.152
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 9	ECI 5	641666	3624.99	15.89	16.50	1.151	-	-	0.17	0.045	0.052
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 9	ECI 5	641666	3624.99	15.88	16.50	1.153	-	-	0.13	0.044	0.051
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	ECI 5	656000	3840	15.88	17.00	1.294	-	-	-0.02	0.105	0.136
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	ECI 5	656000	3840	15.83	17.00	1.309	-	-	-0.15	0.101	0.132
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	ECI 5	656000	3840	15.88	17.00	1.294	-	-	0.1	0.224	0.290
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	ECI 5	656000	3840	15.83	17.00	1.309	-	-	0.13	0.208	0.272
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 6	ECI 5	656000	3840	15.88	17.00	1.294	-	-	-0.04	0.060	0.078
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 6	ECI 5	656000	3840	15.83	17.00	1.309	-	-	-0.12	0.042	0.055
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	656000	3840	15.88	17.00	1.294	-	-	-0.07	0.392	0.507
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	656000	3840	15.83	17.00	1.309	-	-	-0.03	0.401	0.525
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	650000+ 656664	3750+ 3849.96	15.51	17.00	1.409	-	-	-0.04	0.370	0.521
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	656000	3840	18.95	20.00	1.274	50	1.000	-0.04	0.417	0.531
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	ECI 5	633332	3499.98	16.13	17.00	1.222	-	-	-0.11	0.054	0.066
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	ECI 5	633332	3499.98	16.10	17.00	1.230	-	-	0.07	0.066	0.081
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	ECI 5	633332	3499.98	16.13	17.00	1.222	-	-	0.15	0.123	0.150
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	ECI 5	633332	3499.98	16.10	17.00	1.230	-	-	-0.12	0.152	0.187
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 6	ECI 5	633332	3499.98	16.13	17.00	1.222	-	-	0.19	0.028	0.034
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 6	ECI 5	633332	3499.98	16.10	17.00	1.230	-	-	-0.01	0.037	0.046
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	633332	3499.98	16.13	17.00	1.222	-	-	-0.19	0.185	0.226
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	633332	3499.98	16.10	17.00	1.230	-	-	-0.03	0.256	0.315
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	633332	3499.98	19.13	20.00	1.222	50	1.000	-0.13	0.261	0.319
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 8	ECI 5	656000	3840	12.98	14.50	1.419	-	-	-0.07	0.046	0.065
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 8	ECI 5	656000	3840	12.90	14.50	1.445	-	-	0.11	0.045	0.065
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 8	ECI 5	656000	3840	12.98	14.50	1.419	-	-	-0.08	0.072	0.102
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 8	ECI 5	656000	3840	12.90	14.50	1.445	-	-	-0.1	0.075	0.108
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	656000	3840	12.98	14.50	1.419	-	-	-0.01	0.099	0.140
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	656000	3840	12.90	14.50	1.445	-	-	-0.09	0.113	0.163
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	650000+ 656664	3750+ 3849.96	12.65	14.50	1.531	-	-	0.13	0.104	0.159
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 8	ECI 5	656000	3840	12.98	14.50	1.419	-	-	-0.06	0.045	0.064
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 8	ECI 5	656000	3840	12.90	14.50	1.445	-	-	-0.17	0.047	0.068



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	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	656000	3840	15.94	17.50	1.432	50	1.000	-0.01	0.112	0.160
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 8	ECI 5	633332	3499.98	13.18	14.50	1.355	-	-	-0.11	0.054	0.073
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 8	ECI 5	633332	3499.98	13.17	14.50	1.358	-	-	0.14	0.037	0.050
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 8	ECI 5	633332	3499.98	13.18	14.50	1.355	-	-	0.03	0.103	0.140
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 8	ECI 5	633332	3499.98	13.17	14.50	1.358	-	-	0.1	0.107	0.145
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	633332	3499.98	13.18	14.50	1.355	-	-	0.16	0.155	0.210
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	633332	3499.98	13.17	14.50	1.358	-	-	-0.06	0.141	0.192
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 8	ECI 5	633332	3499.98	13.18	14.50	1.355	-	-	0.02	0.061	0.083
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 8	ECI 5	633332	3499.98	13.17	14.50	1.358	-	-	-0.16	0.058	0.079
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	633332	3499.98	16.25	17.50	1.334	50	1.000	0.05	0.166	0.221
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 7	ECI 5	656000	3840	14.89	16.50	1.449	-	-	-0.03	0.091	0.132
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 7	ECI 5	656000	3840	14.87	16.50	1.455	-	-	0.17	0.081	0.118
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 7	ECI 5	656000	3840	14.89	16.50	1.449	-	-	-0.15	0.199	0.288
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	ECI 5	656000	3840	14.87	16.50	1.455	-	-	0.16	0.147	0.214
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	656000	3840	14.89	16.50	1.449	-	-	0.05	0.264	0.382
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	656000	3840	14.87	16.50	1.455	-	-	-0.06	0.271	0.394
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	650000+ 656664	3750+ 3849.96	14.64	16.50	1.535	-	-	0.14	0.202	0.310
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 7	ECI 5	656000	3840	14.89	16.50	1.449	-	-	-0.13	0.064	0.093
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 7	ECI 5	656000	3840	14.87	16.50	1.455	-	-	-0.01	0.087	0.127
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	656000	3840	17.93	19.50	1.435	50	1.000	-0.11	0.283	0.406
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 7	ECI 5	633332	3499.98	15.35	16.50	1.303	-	-	0.19	0.058	0.076
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 7	ECI 5	633332	3499.98	15.29	16.50	1.321	-	-	-0.14	0.076	0.100
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 7	ECI 5	633332	3499.98	15.35	16.50	1.303	-	-	-0.18	0.102	0.133
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	ECI 5	633332	3499.98	15.29	16.50	1.321	-	-	-0.06	0.136	0.180
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	633332	3499.98	15.35	16.50	1.303	-	-	0.02	0.155	0.202
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	633332	3499.98	15.29	16.50	1.321	-	-	0.16	0.165	0.218
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 7	ECI 5	633332	3499.98	15.35	16.50	1.303	-	-	0.01	0.046	0.060
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 7	ECI 5	633332	3499.98	15.29	16.50	1.321	-	-	-0.04	0.052	0.069
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	633332	3499.98	18.33	19.50	1.309	50	1.000	0.13	0.177	0.232
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 9	ECI 5	656000	3840	14.88	16.00	1.294	-	-	0.12	0.039	0.050
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 9	ECI 5	656000	3840	14.85	16.00	1.303	-	-	-0.12	0.038	0.050
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	656000	3840	14.88	16.00	1.294	-	-	-0.15	0.509	0.659
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	656000	3840	14.85	16.00	1.303	-	-	-0.19	0.510	0.665
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	650000+ 656664	3750+ 3849.96	14.55	16.00	1.396	-	-	-0.01	0.471	0.658
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 9	ECI 5	656000	3840	14.88	16.00	1.294	-	-	-0.13	0.113	0.146
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 9	ECI 5	656000	3840	14.85	16.00	1.303	-	-	-0.05	0.100	0.130
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 9	ECI 5	656000	3840	14.88	16.00	1.294	-	-	-0.12	0.060	0.078
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 9	ECI 5	656000	3840	14.85	16.00	1.303	-	-	0.18	0.053	0.069
54	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	656000	3840	17.91	19.00	1.285	50	1.000	0.07	0.518	0.666
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 9	ECI 5	633332	3499.98	14.71	16.00	1.346	-	-	0.03	0.040	0.054
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 9	ECI 5	633332	3499.98	14.69	16.00	1.352	-	-	0.09	0.037	0.050
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	633332	3499.98	14.71	16.00	1.346	-	-	-0.13	0.240	0.323
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	633332	3499.98	14.69	16.00	1.352	-	-	-0.09	0.351	0.475
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 9	ECI 5	633332	3499.98	14.71	16.00	1.346	-	-	-0.18	0.101	0.136
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 9	ECI 5	633332	3499.98	14.69	16.00	1.352	-	-	0.12	0.098	0.133
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 9	ECI 5	633332	3499.98	14.71	16.00	1.346	-	-	0.11	0.037	0.050
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 9	ECI 5	633332	3499.98	14.69	16.00	1.352	-	-	0.11	0.018	0.024
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	633332	3499.98	17.66	19.00	1.361	50	1.000	-0.03	0.373	0.508
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	ECI 5	650000	3750	14.51	15.00	1.119	-	-	-0.02	0.095	0.106
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	ECI 5	650000	3750	14.45	15.00	1.135	-	-	0.02	0.085	0.096
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	ECI 5	650000	3750	14.51	15.00	1.119	-	-	0.12	0.193	0.216
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	ECI 5	650000	3750	14.45	15.00	1.135	-	-	0.02	0.180	0.204
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 6	ECI 5	650000	3750	14.51	15.00	1.119	-	-	-0.11	0.042	0.047
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 6	ECI 5	650000	3750	14.45	15.00	1.135	-	-	-0.11	0.042	0.048
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	650000	3750	14.51	15.00	1.119	-	-	-0.05	0.379	0.424
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	650000	3750	14.45	15.00	1.135	-	-	0.03	0.281	0.319



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	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	650000	3750	17.50	18.00	1.122	50	1.000	-0.05	0.391	0.439
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	ECI 5	633332	3499.98	14.58	15.00	1.102	-	-	-0.03	0.032	0.035
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	ECI 5	633332	3499.98	14.56	15.00	1.107	-	-	0.03	0.040	0.044
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	ECI 5	633332	3499.98	14.58	15.00	1.102	-	-	-0.17	0.072	0.079
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	ECI 5	633332	3499.98	14.56	15.00	1.107	-	-	0.02	0.087	0.096
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 6	ECI 5	633332	3499.98	14.58	15.00	1.102	-	-	-0.11	0.021	0.023
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 6	ECI 5	633332	3499.98	14.56	15.00	1.107	-	-	0.18	0.025	0.028
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	633332	3499.98	14.58	15.00	1.102	-	-	0.16	0.096	0.106
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	633332	3499.98	14.56	15.00	1.107	-	-	0.19	0.163	0.180
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	ECI 5	633332	3499.98	17.58	18.00	1.102	50	1.000	0.01	0.174	0.192
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 8	ECI 5	650000	3750	13.21	14.00	1.199	-	-	-0.03	0.061	0.073
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 8	ECI 5	650000	3750	13.15	14.00	1.216	-	-	0.02	0.066	0.080
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 8	ECI 5	650000	3750	13.21	14.00	1.199	-	-	0.12	0.088	0.106
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 8	ECI 5	650000	3750	13.15	14.00	1.216	-	-	0.02	0.098	0.119
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	650000	3750	13.21	14.00	1.199	-	-	-0.03	0.099	0.119
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	650000	3750	13.15	14.00	1.216	-	-	0.12	0.148	0.180
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 8	ECI 5	650000	3750	13.21	14.00	1.199	-	-	-0.1	0.065	0.078
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 8	ECI 5	650000	3750	13.15	14.00	1.216	-	-	0.05	0.071	0.086
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	650000	3750	16.11	17.00	1.227	50	1.000	0.19	0.152	0.187
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 8	ECI 5	633332	3499.98	13.18	14.00	1.208	-	-	0.12	0.052	0.063
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 8	ECI 5	633332	3499.98	13.11	14.00	1.227	-	-	0.07	0.053	0.065
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 8	ECI 5	633332	3499.98	13.18	14.00	1.208	-	-	0.08	0.105	0.127
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 8	ECI 5	633332	3499.98	13.11	14.00	1.227	-	-	0.19	0.118	0.145
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	633332	3499.98	13.18	14.00	1.208	-	-	-0.06	0.131	0.158
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	633332	3499.98	13.11	14.00	1.227	-	-	-0.09	0.168	0.206
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 8	ECI 5	633332	3499.98	13.18	14.00	1.208	-	-	-0.03	0.057	0.069
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 8	ECI 5	633332	3499.98	13.11	14.00	1.227	-	-	0.07	0.051	0.063
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 8	ECI 5	633332	3499.98	16.15	17.00	1.216	50	1.000	-0.12	0.180	0.219
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 7	ECI 5	650000	3750	14.51	15.50	1.256	-	-	0.02	0.114	0.143
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 7	ECI 5	650000	3750	14.42	15.50	1.282	-	-	-0.12	0.112	0.144
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 7	ECI 5	650000	3750	14.51	15.50	1.256	-	-	0.07	0.192	0.241
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	ECI 5	650000	3750	14.42	15.50	1.282	-	-	-0.18	0.193	0.247
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	650000	3750	14.51	15.50	1.256	-	-	-0.06	0.241	0.303
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	650000	3750	14.42	15.50	1.282	-	-	0.07	0.304	0.390
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 7	ECI 5	650000	3750	14.51	15.50	1.256	-	-	-0.15	0.064	0.080
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 7	ECI 5	650000	3750	14.42	15.50	1.282	-	-	-0.15	0.069	0.088
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	650000	3750	17.40	18.50	1.288	50	1.000	-0.03	0.313	0.403
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 7	ECI 5	633332	3499.98	14.89	15.50	1.151	-	-	-0.07	0.036	0.041
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 7	ECI 5	633332	3499.98	14.86	15.50	1.159	-	-	-0.08	0.043	0.050
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 7	ECI 5	633332	3499.98	14.89	15.50	1.151	-	-	0.12	0.064	0.074
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	ECI 5	633332	3499.98	14.86	15.50	1.159	-	-	-0.07	0.076	0.088
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	633332	3499.98	14.89	15.50	1.151	-	-	-0.05	0.087	0.100
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	633332	3499.98	14.86	15.50	1.159	-	-	-0.04	0.194	0.225
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 7	ECI 5	633332	3499.98	14.89	15.50	1.151	-	-	0.13	0.024	0.028
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 7	ECI 5	633332	3499.98	14.86	15.50	1.159	-	-	-0.03	0.027	0.031
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 7	ECI 5	633332	3499.98	17.92	18.50	1.143	50	1.000	0.02	0.201	0.230
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 9	ECI 5	650000	3750	15.35	16.50	1.303	-	-	-0.04	0.039	0.051
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 9	ECI 5	650000	3750	15.31	16.50	1.315	-	-	0.17	0.028	0.037
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	650000	3750	15.35	16.50	1.303	-	-	0.06	0.670	0.873
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	650000	3750	15.31	16.50	1.315	-	-	0.01	0.722	0.950
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	650000	3750	15.25	16.50	1.334	-	-	-0.11	0.687	0.916
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 9	ECI 5	650000	3750	15.35	16.50	1.303	-	-	0.03	0.172	0.224
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 9	ECI 5	650000	3750	15.31	16.50	1.315	-	-	0.09	0.154	0.203
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 9	ECI 5	650000	3750	15.35	16.50	1.303	-	-	-0.02	0.061	0.079
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 9	ECI 5	650000	3750	15.31	16.50	1.315	-	-	0.15	0.049	0.064
55	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	650000	3750	18.35	19.50	1.303	50	1.000	-0.08	0.749	0.976



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	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 9	ECI 5	633332	3499.98	15.18	16.50	1.355	-	-	0.06	0.029	0.039
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 9	ECI 5	633332	3499.98	15.13	16.50	1.371	-	-	0.15	0.035	0.048
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	633332	3499.98	15.18	16.50	1.355	-	-	-0.08	0.197	0.267
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	633332	3499.98	15.13	16.50	1.371	-	-	-0.05	0.305	0.418
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 9	ECI 5	633332	3499.98	15.18	16.50	1.355	-	-	-0.18	0.083	0.112
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 9	ECI 5	633332	3499.98	15.13	16.50	1.371	-	-	-0.08	0.091	0.125
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 9	ECI 5	633332	3499.98	15.18	16.50	1.355	-	-	0.18	0.015	0.020
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 9	ECI 5	633332	3499.98	15.13	16.50	1.371	-	-	0.1	0.008	0.011
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 9	ECI 5	633332	3499.98	18.12	19.50	1.374	50	1.000	0.03	0.326	0.448

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)
2450MHz																
56	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 17+7(17)	Standalone	6	2437	18.82	19.50	1.169	98.47	1.016	-0.08	0.506	0.601
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 17+7(17)	Standalone	6	2437	18.82	19.50	1.169	98.47	1.016	-0.13	0.886	1.053
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 17+7(17)	Standalone	1	2412	18.73	19.50	1.194	98.47	1.016	0.08	0.815	0.989
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 17+7(17)	Standalone	6	2437	18.82	19.50	1.169	98.47	1.016	0.10	0.069	0.082
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 17+7(17)	Standalone	6	2437	18.82	19.50	1.169	98.47	1.016	-0.18	0.189	0.225
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 17+7(17)	Standalone	6	2437	18.82	19.50	1.169	98.47	1.016	0.10	0.785	0.933
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 17+7(17)	Standalone	1	2412	18.73	19.50	1.194	98.47	1.016	0.01	0.723	0.877
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 17+7(17)	DBS only	6	2437	17.88	18.50	1.153	98.47	1.016	-0.08	0.378	0.443
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 17+7(17)	DBS only	6	2437	17.88	18.50	1.153	98.47	1.016	0.10	0.663	0.777
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 17+7(17)	DBS only	6	2437	17.88	18.50	1.153	98.47	1.016	-0.18	0.052	0.061
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 17+7(17)	DBS only	6	2437	17.88	18.50	1.153	98.47	1.016	0.10	0.142	0.166
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 17+7(17)	DBS only	6	2437	17.88	18.50	1.153	98.47	1.016	0.12	0.587	0.688
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 17+7(17)	WWAN+non DBS	6	2437	15.81	16.50	1.172	98.47	1.016	0.08	0.234	0.279
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 17+7(17)	WWAN+non DBS	6	2437	15.81	16.50	1.172	98.47	1.016	-0.17	0.409	0.487
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 17+7(17)	WWAN+non DBS	6	2437	15.81	16.50	1.172	98.47	1.016	-0.03	0.032	0.038
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 17+7(17)	WWAN+non DBS	6	2437	15.81	16.50	1.172	98.47	1.016	0.14	0.088	0.105
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 17+7(17)	WWAN+non DBS	6	2437	15.81	16.50	1.172	98.47	1.016	0.11	0.362	0.431
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 17+7(17)	WWAN+DBS	6	2437	12.80	13.50	1.175	98.47	1.016	-0.05	0.111	0.133
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 17+7(17)	WWAN+DBS	6	2437	12.80	13.50	1.175	98.47	1.016	0.18	0.195	0.233
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 17+7(17)	WWAN+DBS	6	2437	12.80	13.50	1.175	98.47	1.016	0.14	0.015	0.018
57	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 17+7(17)	WWAN+DBS	6	2437	12.80	13.50	1.175	98.47	1.016	-0.17	0.042	0.050
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 17+7(17)	WWAN+DBS	6	2437	12.80	13.50	1.175	98.47	1.016	0.17	0.173	0.207
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 7	non DBS	6	2437	19.29	20.00	1.178	98.47	1.016	0.01	0.217	0.260
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 7	non DBS	6	2437	19.29	20.00	1.178	98.47	1.016	0.02	0.240	0.287
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 7	non DBS	6	2437	19.29	20.00	1.178	98.47	1.016	0.02	0.293	0.350
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7	non DBS	6	2437	19.29	20.00	1.178	98.47	1.016	0.01	0.103	0.123
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 7	WWAN+non DBS	6	2437	17.92	18.50	1.143	98.47	1.016	-0.05	0.156	0.181
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 7	WWAN+non DBS	6	2437	17.92	18.50	1.143	98.47	1.016	0.18	0.172	0.200
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 7	WWAN+non DBS	6	2437	17.92	18.50	1.143	98.47	1.016	0.14	0.210	0.244
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7	WWAN+non DBS	6	2437	17.92	18.50	1.143	98.47	1.016	-0.17	0.074	0.086
	Bluetooth	1Mbps	Front	10mm	Ant 17	Full power	39	2441	15.78	16.50	1.180	76.80	1.085	0.08	0.137	0.175
	Bluetooth	1Mbps	Back	10mm	Ant 17	Full power	39	2441	15.78	16.50	1.180	76.80	1.085	-0.09	0.238	0.305
	Bluetooth	1Mbps	Left Side	10mm	Ant 17	Full power	39	2441	15.78	16.50	1.180	76.80	1.085	0.01	0.005	0.006
	Bluetooth	1Mbps	Right Side	10mm	Ant 17	Full power	39	2441	15.78	16.50	1.180	76.80	1.085	0.03	0.003	0.004
	Bluetooth	1Mbps	Top Side	10mm	Ant 17	Full power	39	2441	15.78	16.50	1.180	76.80	1.085	-0.04	0.198	0.254
	Bluetooth	1Mbps	Front	10mm	Ant 17	WWAN+non DBS	39	2441	10.80	11.50	1.175	76.80	1.085	0.17	0.052	0.066
	Bluetooth	1Mbps	Back	10mm	Ant 17	WWAN+non DBS	39	2441	10.80	11.50	1.175	76.80	1.085	-0.05	0.090	0.115
	Bluetooth	1Mbps	Left Side	10mm	Ant 17	WWAN+non DBS	39	2441	10.80	11.50	1.175	76.80	1.085	0.01	0.002	0.003
	Bluetooth	1Mbps	Right Side	10mm	Ant 17	WWAN+non DBS	39	2441	10.80	11.50	1.175	76.80	1.085	0.10	0.001	0.001
	Bluetooth	1Mbps	Top Side	10mm	Ant 17	WWAN+non DBS	39	2441	10.80	11.50	1.175	76.80	1.085	-0.17	0.075	0.096
5000MHz																
	WLAN5.2GHz	802.11ax-HE40 MCS0	Front	10mm	Ant 18+19(19)	Full power	46	5230	18.52	19.50	1.253	100	1.000	0.08	0.280	0.351



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	WLAN5.2GHz	802.11ax-HE40 MCS0	Back	10mm	Ant 18+19(19)	Full power	46	5230	18.52	19.50	1.253	100	1.000	0.01	0.455	0.570
	WLAN5.2GHz	802.11ax-HE40 MCS0	Left Side	10mm	Ant 18+19(19)	Full power	46	5230	18.52	19.50	1.253	100	1.000	0.03	0.097	0.122
58	WLAN5.2GHz	802.11ax-HE40 MCS0	Right Side	10mm	Ant 18+19(19)	Full power	46	5230	18.52	19.50	1.253	100	1.000	0.01	0.552	0.692
	WLAN5.2GHz	802.11ax-HE40 MCS0	Top Side	10mm	Ant 18+19(19)	Full power	46	5230	18.52	19.50	1.253	100	1.000	-0.08	0.478	0.599
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 18+19(19)	WWAN+DBS/non DBS	42	5210	13.02	14.00	1.253	100	1.000	0.04	0.095	0.119
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 18+19(19)	WWAN+DBS/non DBS	42	5210	13.02	14.00	1.253	100	1.000	-0.01	0.155	0.194
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 18+19(19)	WWAN+DBS/non DBS	42	5210	13.02	14.00	1.253	100	1.000	-0.08	0.033	0.041
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 18+19(19)	WWAN+DBS/non DBS	42	5210	13.02	14.00	1.253	100	1.000	0.05	0.188	0.236
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 18+19(19)	WWAN+DBS/non DBS	42	5210	13.02	14.00	1.253	100	1.000	0.06	0.163	0.204
	WLAN5.8GHz	802.11ax-HE40 MCS0	Front	10mm	Ant 18+19(18)	Standalone	159	5795	18.20	19.00	1.202	100	1.000	-0.10	0.302	0.363
	WLAN5.8GHz	802.11ax-HE40 MCS0	Back	10mm	Ant 18+19(18)	Standalone	159	5795	18.20	19.00	1.202	100	1.000	0.07	0.498	0.599
	WLAN5.8GHz	802.11ax-HE40 MCS0	Left Side	10mm	Ant 18+19(18)	Standalone	159	5795	18.20	19.00	1.202	100	1.000	0.18	0.112	0.135
	WLAN5.8GHz	802.11ax-HE40 MCS0	Right Side	10mm	Ant 18+19(18)	Standalone	159	5795	18.20	19.00	1.202	100	1.000	-0.10	0.465	0.559
59	WLAN5.8GHz	802.11ax-HE40 MCS0	Top Side	10mm	Ant 18+19(18)	Standalone	159	5795	18.20	19.00	1.202	100	1.000	-0.02	0.846	1.017
	WLAN5.8GHz	802.11ax-HE40 MCS0	Top Side	10mm	Ant 18+19(18)	Standalone	151	5755	17.95	19.00	1.274	100	1.000	-0.03	0.698	0.889
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	10mm	Ant 18+19(18)	DBS only	151	5755	17.17	18.00	1.211	87.84	1.138	-0.09	0.202	0.278
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	10mm	Ant 18+19(18)	DBS only	151	5755	17.17	18.00	1.211	87.84	1.138	-0.08	0.334	0.460
	WLAN5.8GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 18+19(18)	DBS only	151	5755	17.17	18.00	1.211	87.84	1.138	0.13	0.075	0.103
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 18+19(18)	DBS only	151	5755	17.17	18.00	1.211	87.84	1.138	0.12	0.312	0.430
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 18+19(18)	DBS only	151	5755	17.17	18.00	1.211	87.84	1.138	0.03	0.568	0.783
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 18+19(18)	WWAN+DBS/non DBS	155	5775	12.25	13.00	1.189	100	1.000	0.18	0.074	0.088
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 18+19(18)	WWAN+DBS/non DBS	155	5775	12.25	13.00	1.189	100	1.000	0.16	0.121	0.144
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 18+19(18)	WWAN+DBS/non DBS	155	5775	12.25	13.00	1.189	100	1.000	-0.10	0.027	0.032
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 18+19(18)	WWAN+DBS/non DBS	155	5775	12.25	13.00	1.189	100	1.000	0.07	0.113	0.134
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 18+19(18)	WWAN+DBS/non DBS	155	5775	12.25	13.00	1.189	100	1.000	0.18	0.206	0.245



16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
835MHz																				
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 0	ECI 4	189	836.4	27.08	28.00	1.236	-	-	0.08	0.203	0.251
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 0	ECI 4	189	836.4	27.08	28.00	1.236	-	-	-0.01	0.207	0.256
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 1	ECI 4	189	836.4	27.16	28.50	1.361	-	-	-0.17	0.355	0.483
60	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 1	ECI 4	189	836.4	27.16	28.50	1.361	-	-	-0.04	0.405	0.551
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	ECI 4	4182	836.4	24.14	25.00	1.219	-	-	0.08	0.196	0.239
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	ECI 4	4182	836.4	24.14	25.00	1.219	-	-	-0.01	0.216	0.263
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	ECI 4	4182	836.4	21.19	22.50	1.352	-	-	0.01	0.349	0.472
61	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	ECI 4	4182	836.4	21.19	22.50	1.352	-	-	0.04	0.402	0.544
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Front	15mm	Ant 0	ECI 4	20600	844	25.12	25.70	1.143	-	-	0.07	0.230	0.263
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Front	15mm	Ant 0	ECI 4	20600	844	24.10	24.70	1.148	-	-	0.15	0.181	0.208
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 4	20600	844	25.12	25.70	1.143	-	-	-0.05	0.243	0.278
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Back	15mm	Ant 0	ECI 4	20600	844	24.10	24.70	1.148	-	-	-0.08	0.192	0.220
	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 4	20600	844	25.11	25.70	1.146	-	-	-0.08	0.227	0.260
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Front	15mm	Ant 0	ECI 4	20600	844	25.12	25.70	1.143	-	-	-0.13	0.100	0.114
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Front	15mm	Ant 0	ECI 4	20600	844	24.10	24.70	1.148	-	-	0.01	0.080	0.092
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 4	20600	844	25.12	25.70	1.143	-	-	-0.05	0.109	0.125
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Back	15mm	Ant 0	ECI 4	20600	844	24.10	24.70	1.148	-	-	0.03	0.089	0.102
	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 4	20600	844	25.11	25.70	1.146	-	-	-0.05	0.102	0.117
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Front	15mm	Ant 1	ECI 4	20525	836.5	21.85	22.20	1.084	-	-	-0.18	0.328	0.356
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Front	15mm	Ant 1	ECI 4	20525	836.5	21.83	22.20	1.089	-	-	-0.11	0.328	0.357
62	LTE Band 5_Other PA	10M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	20525	836.5	21.85	22.20	1.084	-	-	-0.16	0.371	0.402
	LTE Band 5_Other PA	10M	QPSK	25	0	-	Back	15mm	Ant 1	ECI 4	20525	836.5	21.83	22.20	1.089	-	-	-0.15	0.358	0.390
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	20525	836.5	21.85	22.20	1.084	-	-	-0.06	0.231	0.250
	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	20525	836.5	21.62	22.20	1.143	-	-	-0.02	0.338	0.386
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 0	ECI 4	26965	841.5	25.14	25.70	1.138	-	-	0.14	0.209	0.238
	LTE Band 26	15M	QPSK	36	0	-	Front	15mm	Ant 0	ECI 4	26965	841.5	24.01	24.70	1.172	-	-	-0.01	0.160	0.188
	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 4	26965	841.5	25.14	25.70	1.138	-	-	-0.12	0.251	0.286
	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 0	ECI 4	26965	841.5	24.01	24.70	1.172	-	-	0.07	0.192	0.225
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 0	ECI 4	26965	841.5	25.14	25.70	1.138	-	-	0.09	0.090	0.102
	LTE Band 26	15M	QPSK	36	0	-	Front	15mm	Ant 0	ECI 4	26965	841.5	24.01	24.70	1.172	-	-	0.04	0.075	0.088
	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 4	26965	841.5	25.14	25.70	1.138	-	-	0.11	0.104	0.118
	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 0	ECI 4	26965	841.5	24.01	24.70	1.172	-	-	-0.13	0.085	0.100
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 1	ECI 4	26865	831.5	24.07	24.70	1.156	-	-	0.07	0.310	0.358
	LTE Band 26	15M	QPSK	36	0	-	Front	15mm	Ant 1	ECI 4	26865	831.5	24.04	24.70	1.164	-	-	-0.02	0.332	0.386
	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	26865	831.5	24.07	24.70	1.156	-	-	-0.05	0.368	0.425
63	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 1	ECI 4	26865	831.5	24.04	24.70	1.164	-	-	0.01	0.385	0.448
	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 1	ECI 4	26865	831.5	24.04	24.70	1.164	-	-	-0.13	0.221	0.257
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	ECI 4	167800	839	25.40	25.70	1.072	-	-	0.12	0.253	0.271
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	ECI 4	167800	839	25.32	25.70	1.091	-	-	-0.11	0.247	0.270
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	ECI 4	167800	839	25.40	25.70	1.072	-	-	0.17	0.294	0.315
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 0	ECI 4	167800	839	25.32	25.70	1.091	-	-	-0.16	0.278	0.303
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	ECI 4	167800	839	25.40	25.70	1.072	-	-	-0.17	0.110	0.118
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	ECI 4	167800	839	25.32	25.70	1.091	-	-	0.11	0.091	0.099
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	ECI 4	167800	839	25.40	25.70	1.072	-	-	-0.05	0.132	0.141
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 0	ECI 4	167800	839	25.32	25.70	1.091	-	-	-0.01	0.107	0.117
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	ECI 4	167300	836.5	22.07	22.20	1.030	-	-	-0.14	0.275	0.283
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 1	ECI 4	167300	836.5	21.97	22.20	1.054	-	-	-0.19	0.326	0.344
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	ECI 4	167300	836.5	22.07	22.20	1.030	-	-	0.01	0.320	0.330
64	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 1	ECI 4	167300	836.5	21.97	22.20	1.054	-	-	-0.05	0.381	0.402



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	FR1 n5	20M	QPSK	50	28	DFT-SCS-16KHz	Back	15mm	Ant 1	ECI 4	167300	836.5	21.97	22.20	1.054	-	-	0.06	0.109	0.115
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	ECI 4	167800	839	25.45	25.70	1.059	-	-	-0.14	0.226	0.239
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	ECI 4	167800	839	25.39	25.70	1.074	-	-	-0.15	0.212	0.228
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	ECI 4	167800	839	25.45	25.70	1.059	-	-	-0.12	0.236	0.250
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 0	ECI 4	167800	839	25.39	25.70	1.074	-	-	-0.17	0.226	0.243
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	ECI 4	167800	839	25.45	25.70	1.059	-	-	0.08	0.109	0.115
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	ECI 4	167800	839	25.39	25.70	1.074	-	-	0.01	0.102	0.110
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	ECI 4	167800	839	25.45	25.70	1.059	-	-	0.02	0.134	0.142
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 0	ECI 4	167800	839	25.39	25.70	1.074	-	-	-0.11	0.120	0.129
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	ECI 4	166300	831.5	25.49	25.70	1.050	-	-	0.02	0.350	0.367
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 1	ECI 4	166300	831.5	25.45	25.70	1.059	-	-	0.12	0.449	0.476
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	ECI 4	166300	831.5	25.49	25.70	1.050	-	-	-0.16	0.416	0.437
65	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 1	ECI 4	166300	831.5	25.45	25.70	1.059	-	-	0.01	0.501	0.531
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 1	ECI 4	166300	831.5	25.45	25.70	1.059	-	-	-0.12	0.303	0.321
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 2	ECI 4	1413	1732.6	23.02	24.00	1.253	-	-	0.12	0.235	0.294
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	ECI 4	1413	1732.6	23.02	24.00	1.253	-	-	-0.02	0.287	0.360
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 4	ECI 4	1413	1732.6	24.37	25.70	1.358	-	-	0.03	0.358	0.486
66	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 4	1413	1732.6	24.37	25.70	1.358	-	-	-0.04	0.473	0.642
	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 4	20175	1732.5	25.11	25.70	1.146	-	-	0.08	0.605	0.693
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 4	20175	1732.5	24.15	24.70	1.135	-	-	0.16	0.455	0.516
67	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	20175	1732.5	25.11	25.70	1.146	-	-	-0.06	0.800	0.916
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 4	20175	1732.5	24.15	24.70	1.135	-	-	0.01	0.610	0.692
	LTE Band 4	20M	QPSK	100	0	-	Back	15mm	Ant 4	ECI 4	20175	1732.5	24.14	24.70	1.138	-	-	-0.16	0.597	0.679
	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	20175	1732.5	25.11	25.70	1.146	-	-	0.1	0.300	0.344
	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 4	20175	1732.5	23.56	24.20	1.159	-	-	-0.08	0.295	0.342
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 4	20175	1732.5	23.51	24.20	1.172	-	-	-0.08	0.253	0.297
	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	20175	1732.5	23.56	24.20	1.159	-	-	-0.15	0.355	0.411
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	20175	1732.5	23.51	24.20	1.172	-	-	0.1	0.300	0.352
	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 5	ECI 4	20175	1732.5	22.07	23.50	1.390	-	-	-0.01	0.133	0.185
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 5	ECI 4	20175	1732.5	22.04	23.50	1.400	-	-	0.09	0.143	0.200
	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	20175	1732.5	22.07	23.50	1.390	-	-	0.1	0.199	0.277
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	20175	1732.5	22.04	23.50	1.400	-	-	-0.04	0.201	0.281
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 4	132322	1745	25.15	25.70	1.135	-	-	-0.04	0.254	0.288
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 4	132322	1745	24.20	24.70	1.122	-	-	-0.01	0.211	0.237
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	132322	1745	25.15	25.70	1.135	-	-	-0.13	0.365	0.414
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 4	132322	1745	24.20	24.70	1.122	-	-	0.02	0.286	0.321
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 4	132322	1745	23.02	23.70	1.169	-	-	-0.03	0.317	0.371
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 4	132322	1745	22.99	23.70	1.178	-	-	0.14	0.272	0.320
68	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	132322	1745	23.02	23.70	1.169	-	-	-0.05	0.383	0.448
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	132322	1745	22.99	23.70	1.178	-	-	0.11	0.322	0.379
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 5	ECI 4	132322	1745	22.12	23.50	1.374	-	-	0.15	0.154	0.212
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 5	ECI 4	132322	1745	22.07	23.50	1.390	-	-	0.09	0.149	0.207
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	132322	1745	22.12	23.50	1.374	-	-	-0.16	0.235	0.323
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	132322	1745	22.07	23.50	1.390	-	-	0.05	0.221	0.307
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 4	ECI 4	349000	1745	25.43	25.70	1.064	-	-	-0.07	0.439	0.467
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 4	ECI 4	349000	1745	25.34	25.70	1.086	-	-	0.11	0.434	0.472
69	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 4	ECI 4	349000	1745	25.43	25.70	1.064	-	-	-0.02	0.619	0.659
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 4	ECI 4	349000	1745	25.34	25.70	1.086	-	-	-0.08	0.604	0.656
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 2	ECI 4	349000	1745	20.75	21.20	1.109	-	-	-0.09	0.107	0.119
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 2	ECI 4	349000	1745	20.66	21.20	1.132	-	-	0.18	0.101	0.114
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 2	ECI 4	349000	1745	20.75	21.20	1.109	-	-	0.11	0.133	0.148
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 2	ECI 4	349000	1745	20.66	21.20	1.132	-	-	0.07	0.129	0.146
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 5	ECI 4	349000	1745	22.53	23.50	1.250	-	-	-0.03	0.147	0.184
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 5	ECI 4	349000	1745	22.51	23.50	1.256	-	-	0.09	0.159	0.200
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 5	ECI 4	349000	1745	22.53	23.50	1.250	-	-	-0.08	0.222	0.278



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	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 5	ECI 4	349000	1745	22.51	23.50	1.256	-	-	-0.05	0.241	0.303
1900MHz																				
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 2	ECI 4	661	1880	22.12	23.00	1.225	-	-	-0.03	0.124	0.152
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 2	ECI 4	661	1880	22.12	23.00	1.225	-	-	0.17	0.162	0.198
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 4	ECI 4	661	1880	24.25	26.00	1.496	-	-	-0.16	0.152	0.227
70	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 4	ECI 4	661	1880	24.25	26.00	1.496	-	-	-0.01	0.225	0.337
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 2	ECI 4	9400	1880	21.03	22.00	1.250	-	-	0.1	0.351	0.439
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	ECI 4	9400	1880	21.03	22.00	1.250	-	-	-0.05	0.460	0.575
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 4	ECI 4	9400	1880	24.31	25.70	1.377	-	-	-0.18	0.324	0.446
71	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 4	9400	1880	24.31	25.70	1.377	-	-	-0.05	0.492	0.678
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 4	18900	1880	24.45	25.50	1.274	-	-	-0.11	0.395	0.503
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 4	18900	1880	23.46	24.50	1.271	-	-	-0.06	0.318	0.404
72	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	18900	1880	24.45	25.50	1.274	-	-	-0.06	0.607	0.773
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 4	18900	1880	23.46	24.50	1.271	-	-	-0.13	0.465	0.591
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 4	18900	1880	21.13	22.00	1.222	-	-	-0.05	0.198	0.242
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 4	18900	1880	21.09	22.00	1.233	-	-	0.18	0.196	0.242
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	18900	1880	21.13	22.00	1.222	-	-	0.06	0.256	0.313
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	18900	1880	21.09	22.00	1.233	-	-	0.14	0.253	0.312
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 3	ECI 4	18900	1880	21.19	22.50	1.352	-	-	-0.06	0.103	0.139
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 3	ECI 4	18900	1880	21.15	22.50	1.365	-	-	-0.15	0.101	0.138
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	18900	1880	21.19	22.50	1.352	-	-	-0.12	0.141	0.191
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 3	ECI 4	18900	1880	21.15	22.50	1.365	-	-	-0.16	0.139	0.190
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 5	ECI 4	18900	1880	22.40	24.00	1.445	-	-	-0.03	0.079	0.114
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 5	ECI 4	18900	1880	21.41	23.00	1.442	-	-	0.17	0.070	0.101
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	18900	1880	22.40	24.00	1.445	-	-	0.02	0.128	0.185
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	18900	1880	21.41	23.00	1.442	-	-	0.01	0.107	0.154
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 4	ECI 4	376000	1880	24.95	25.50	1.135	-	-	-0.09	0.392	0.445
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 4	ECI 4	376000	1880	24.67	25.50	1.211	-	-	-0.06	0.395	0.478
73	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 4	ECI 4	376000	1880	24.95	25.50	1.135	-	-	-0.05	0.599	0.680
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 4	ECI 4	376000	1880	24.67	25.50	1.211	-	-	-0.17	0.514	0.622
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 2	ECI 4	376000	1880	21.93	22.70	1.194	-	-	0.18	0.228	0.272
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 2	ECI 4	376000	1880	21.90	22.70	1.202	-	-	-0.11	0.220	0.264
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 2	ECI 4	376000	1880	21.93	22.70	1.194	-	-	0.11	0.303	0.362
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 2	ECI 4	376000	1880	21.90	22.70	1.202	-	-	-0.04	0.296	0.356
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 3	ECI 4	376000	1880	20.46	21.50	1.271	-	-	-0.08	0.099	0.126
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 3	ECI 4	376000	1880	20.44	21.50	1.276	-	-	0.05	0.110	0.140
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 3	ECI 4	376000	1880	20.46	21.50	1.271	-	-	-0.14	0.134	0.170
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 3	ECI 4	376000	1880	20.44	21.50	1.276	-	-	-0.07	0.149	0.190
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 5	ECI 4	376000	1880	21.05	22.00	1.245	-	-	0.18	0.121	0.151
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 5	ECI 4	376000	1880	21.03	22.00	1.250	-	-	0.02	0.124	0.155
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 5	ECI 4	376000	1880	21.05	22.00	1.245	-	-	0.16	0.186	0.231
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 5	ECI 4	376000	1880	21.03	22.00	1.250	-	-	0.06	0.194	0.243
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 5	ECI 4	376000	1880	21.03	22.00	1.250	-	-	-0.02	0.098	0.123
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 4	21100	2535	25.14	25.70	1.138	-	-	0.1	0.425	0.483
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 4	21100	2535	24.17	24.70	1.130	-	-	0.16	0.341	0.385
74	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	21100	2535	25.14	25.70	1.138	-	-	0.02	0.653	0.743
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 4	21100	2535	24.17	24.70	1.130	-	-	0.05	0.447	0.505
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	21100	2535	25.02	25.70	1.169	-	-	-0.15	0.584	0.683
	LTE Band 7C	20M	QPSK	1	99	-	Back	15mm	Ant 4	ECI 4	21100+ 21298	2535+ 2554.8	25.01	25.70	1.172	-	-	0.06	0.615	0.721
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 4	21100	2535	21.16	21.70	1.132	-	-	0.07	0.173	0.196
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 4	21100	2535	21.12	21.70	1.143	-	-	-0.17	0.171	0.195
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	21100	2535	21.16	21.70	1.132	-	-	0.1	0.227	0.257
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	21100	2535	21.12	21.70	1.143	-	-	0.08	0.236	0.270
	LTE Band 7_Other PA	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	21100	2535	20.47	21.50	1.268	-	-	0.04	0.165	0.209
	LTE Band 7C	20M	QPSK	1	99	-	Back	15mm	Ant 2	ECI 4	21100+	2535+	21.06	21.70	1.159	-	-	0.02	0.223	0.258



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											21298	2554.8								
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 3	ECI 4	21100	2535	19.66	21.00	1.361	-	-	-0.13	0.099	0.135
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 3	ECI 4	21100	2535	19.63	21.00	1.371	-	-	-0.1	0.088	0.121
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	21100	2535	19.66	21.00	1.361	-	-	-0.07	0.142	0.193
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 3	ECI 4	21100	2535	19.63	21.00	1.371	-	-	0.11	0.135	0.185
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	21100	2535	19.51	20.70	1.315	-	-	-0.17	0.132	0.174
	LTE Band 7C	20M	QPSK	1	99	-	Back	15mm	Ant 3	ECI 4	21100+21298	2535+2554.8	19.44	21.00	1.432	-	-	0.02	0.126	0.180
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 5	ECI 4	21100	2535	19.97	21.50	1.422	-	-	0.01	0.103	0.146
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 5	ECI 4	21100	2535	19.94	21.50	1.432	-	-	0.1	0.101	0.145
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	21100	2535	19.97	21.50	1.422	-	-	0.11	0.151	0.215
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	21100	2535	19.94	21.50	1.432	-	-	-0.07	0.147	0.211
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	21100	2535	19.75	21.00	1.334	-	-	0.18	0.132	0.176
	LTE Band 7C	20M	QPSK	1	99	-	Back	15mm	Ant 5	ECI 4	21100+21298	2535+2554.8	19.89	21.50	1.449	-	-	0.02	0.136	0.197
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 4	38000	2595	24.85	25.70	1.216	62.9	1.006	0.01	0.280	0.343
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 4	38000	2595	23.87	24.70	1.211	62.9	1.006	0.1	0.223	0.272
75	LTE Band 38_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	38000	2595	24.85	25.70	1.216	62.9	1.006	-0.05	0.395	0.483
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 4	38000	2595	23.87	24.70	1.211	62.9	1.006	-0.17	0.308	0.375
	LTE Band 38	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	38000	2595	25.06	25.70	1.159	62.9	1.006	-0.05	0.382	0.445
	LTE Band 38C	20M	QPSK	1	99	-	Back	15mm	Ant 4	ECI 4	37901+38099	2585.1+2604.9	24.85	25.70	1.216	62.9	1.006	0.03	0.345	0.422
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 4	38000	2595	22.39	23.50	1.291	62.9	1.006	-0.17	0.102	0.132
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 4	38000	2595	22.35	23.50	1.303	62.9	1.006	0.17	0.098	0.128
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	38000	2595	22.39	23.50	1.291	62.9	1.006	0.07	0.140	0.182
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	38000	2595	22.35	23.50	1.303	62.9	1.006	-0.05	0.137	0.180
	LTE Band 38	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	38000	2595	21.00	21.70	1.175	62.9	1.006	0.07	0.097	0.115
	LTE Band 38C	20M	QPSK	1	99	-	Back	15mm	Ant 2	ECI 4	37901+38099	2585.1+2604.9	20.83	21.70	1.222	62.9	1.006	0.02	0.088	0.108
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Front	15mm	Ant 3	ECI 4	38000	2595	20.75	22.20	1.396	62.9	1.006	0.15	0.103	0.145
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Front	15mm	Ant 3	ECI 4	38000	2595	20.69	22.20	1.416	62.9	1.006	0.14	0.083	0.118
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	38000	2595	20.75	22.20	1.396	62.9	1.006	0.17	0.165	0.232
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Back	15mm	Ant 3	ECI 4	38000	2595	20.69	22.20	1.416	62.9	1.006	-0.14	0.138	0.197
	LTE Band 38	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	38000	2595	19.19	20.50	1.352	62.9	1.006	0.17	0.115	0.156
	LTE Band 38C	20M	QPSK	1	99	-	Back	15mm	Ant 3	ECI 4	37901+38099	2585.1+2604.9	18.93	20.50	1.435	62.9	1.006	0.03	0.101	0.146
	LTE Band 38	20M	QPSK	1	0	-	Front	15mm	Ant 5	ECI 4	38000	2595	22.27	23.50	1.327	62.9	1.006	0.11	0.067	0.089
	LTE Band 38	20M	QPSK	50	0	-	Front	15mm	Ant 5	ECI 4	38000	2595	21.30	22.50	1.318	62.9	1.006	0.07	0.065	0.086
	LTE Band 38	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	38000	2595	22.27	23.50	1.327	62.9	1.006	-0.04	0.114	0.152
	LTE Band 38	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	38000	2595	21.30	22.50	1.318	62.9	1.006	-0.18	0.113	0.150
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	38000	2595	22.24	23.50	1.337	62.9	1.006	-0.13	0.102	0.137
	LTE Band 38C	20M	QPSK	1	99	-	Back	15mm	Ant 5	ECI 4	37901+38099	2585.1+2604.9	21.89	23.50	1.449	62.9	1.006	0.06	0.091	0.133
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 4	40620	2593	25.13	25.70	1.140	62.9	1.006	0.17	0.299	0.343
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 4	40620	2593	24.16	24.70	1.132	62.9	1.006	-0.15	0.250	0.285
76	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	40620	2593	25.13	25.70	1.140	62.9	1.006	-0.07	0.429	0.492
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 4	40620	2593	24.16	24.70	1.132	62.9	1.006	0.16	0.339	0.386
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	40620	2593	24.85	25.70	1.216	62.9	1.006	-0.02	0.396	0.484
	LTE Band 41C	20M	QPSK	1	99	-	Back	15mm	Ant 4	ECI 4	40620+40818	2593+2612.8	24.73	25.70	1.250	62.9	1.006	0.02	0.375	0.472
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 4	40620	2593	22.65	23.50	1.216	62.9	1.006	0.13	0.125	0.153
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 4	40620	2593	22.63	23.50	1.222	62.9	1.006	0.08	0.121	0.149
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	40620	2593	22.65	23.50	1.216	62.9	1.006	-0.12	0.157	0.192
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	40620	2593	22.63	23.50	1.222	62.9	1.006	-0.05	0.164	0.202
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	40620	2593	20.97	21.70	1.183	62.9	1.006	-0.05	0.115	0.137
	LTE Band 41C	20M	QPSK	1	99	-	Back	15mm	Ant 2	ECI 4	40620+40818	2593+2612.8	20.87	21.70	1.211	62.9	1.006	0.02	0.103	0.125
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 3	ECI 4	40620	2593	20.65	22.00	1.365	62.9	1.006	0.1	0.080	0.110
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 3	ECI 4	40620	2593	20.62	22.00	1.374	62.9	1.006	-0.11	0.080	0.111
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	40620	2593	20.65	22.00	1.365	62.9	1.006	-0.06	0.136	0.187
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 3	ECI 4	40620	2593	20.62	22.00	1.374	62.9	1.006	-0.1	0.129	0.178
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	40620	2593	20.62	22.20	1.439	62.9	1.006	0.14	0.122	0.177



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	LTE Band 41C	20M	QPSK	1	99	-	Back	15mm	Ant 3	ECI 4	40620+40818	2593+2612.8	20.49	22.00	1.416	62.9	1.006	0.03	0.116	0.165
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 5	ECI 4	40620	2593	20.71	22.00	1.346	62.9	1.006	-0.05	0.093	0.126
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 5	ECI 4	40620	2593	20.69	22.00	1.352	62.9	1.006	-0.04	0.082	0.112
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	40620	2593	20.71	22.00	1.346	62.9	1.006	-0.03	0.164	0.222
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	40620	2593	20.69	22.00	1.352	62.9	1.006	0.03	0.160	0.218
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	40620	2593	20.84	22.50	1.466	62.9	1.006	0.16	0.150	0.221
	LTE Band 41C	20M	QPSK	1	99	-	Back	15mm	Ant 5	ECI 4	40620+40818	2593+2612.8	20.44	22.00	1.432	62.9	1.006	0.02	0.138	0.199
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 4	ECI 4	507000	2535	25.48	25.70	1.052	-	-	0.05	0.340	0.358
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	15mm	Ant 4	ECI 4	507000	2535	25.37	25.70	1.079	-	-	-0.06	0.422	0.455
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 4	ECI 4	507000	2535	25.48	25.70	1.052	-	-	-0.13	0.449	0.472
77	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	15mm	Ant 4	ECI 4	507000	2535	25.37	25.70	1.079	-	-	-0.04	0.562	0.606
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 2	ECI 4	507000	2535	20.45	21.20	1.189	-	-	0.01	0.125	0.149
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	15mm	Ant 2	ECI 4	507000	2535	20.41	21.20	1.199	-	-	-0.06	0.124	0.149
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 2	ECI 4	507000	2535	20.45	21.20	1.189	-	-	0.14	0.165	0.196
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	15mm	Ant 2	ECI 4	507000	2535	20.41	21.20	1.199	-	-	-0.04	0.184	0.221
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 3	ECI 4	507000	2535	20.31	21.20	1.227	-	-	-0.09	0.083	0.102
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	15mm	Ant 3	ECI 4	507000	2535	20.28	21.20	1.236	-	-	-0.12	0.096	0.119
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 3	ECI 4	507000	2535	20.31	21.20	1.227	-	-	-0.06	0.141	0.173
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	15mm	Ant 3	ECI 4	507000	2535	20.28	21.20	1.236	-	-	-0.04	0.153	0.189
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 5	ECI 4	507000	2535	20.21	21.50	1.346	-	-	0.09	0.078	0.105
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	15mm	Ant 5	ECI 4	507000	2535	20.15	21.50	1.365	-	-	0.13	0.090	0.123
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 5	ECI 4	507000	2535	20.21	21.50	1.346	-	-	-0.08	0.119	0.160
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	15mm	Ant 5	ECI 4	507000	2535	20.15	21.50	1.365	-	-	0.09	0.150	0.205
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 4	ECI 4	519000	2595	25.64	25.70	1.014	-	-	-0.11	0.483	0.490
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	15mm	Ant 4	ECI 4	519000	2595	25.54	25.70	1.038	-	-	0.19	0.457	0.474
78	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 4	ECI 4	519000	2595	25.64	25.70	1.014	-	-	-0.07	0.679	0.688
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 4	ECI 4	519000	2595	25.54	25.70	1.038	-	-	-0.14	0.631	0.655
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 2	ECI 4	519000	2595	21.73	22.20	1.114	-	-	-0.03	0.169	0.188
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	15mm	Ant 2	ECI 4	519000	2595	21.70	22.20	1.122	-	-	-0.06	0.165	0.185
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 2	ECI 4	519000	2595	21.73	22.20	1.114	-	-	-0.05	0.243	0.271
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 2	ECI 4	519000	2595	21.70	22.20	1.122	-	-	-0.07	0.232	0.260
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 3	ECI 4	519000	2595	20.02	21.00	1.253	-	-	-0.13	0.124	0.155
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	15mm	Ant 3	ECI 4	519000	2595	20.01	21.00	1.256	-	-	0.04	0.126	0.158
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 3	ECI 4	519000	2595	20.02	21.00	1.253	-	-	-0.01	0.208	0.261
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 3	ECI 4	519000	2595	20.01	21.00	1.256	-	-	-0.1	0.205	0.257
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 5	ECI 4	519000	2595	21.53	22.50	1.250	-	-	-0.15	0.084	0.105
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	15mm	Ant 5	ECI 4	519000	2595	21.50	22.50	1.259	-	-	0.18	0.101	0.127
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	ECI 4	519000	2595	21.53	22.50	1.250	-	-	0.05	0.133	0.166
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 5	ECI 4	519000	2595	21.50	22.50	1.259	-	-	-0.03	0.156	0.196
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 4	ECI 4	518598	2592.99	23.75	24.50	1.189	-	-	-0.06	0.298	0.354
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 4	ECI 4	518598	2592.99	23.65	24.50	1.216	-	-	0.02	0.300	0.365
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 4	ECI 4	518598	2592.99	23.75	24.50	1.189	-	-	0.16	0.396	0.471
79	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 4	ECI 4	518598	2592.99	23.65	24.50	1.216	-	-	0.01	0.497	0.604
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 4	ECI 4	518598	2592.99	26.45	27.00	1.135	50	1.000	-0.08	0.457	0.519
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 2	ECI 4	518598	2592.99	19.93	21.50	1.435	-	-	0.1	0.122	0.175
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 2	ECI 4	518598	2592.99	19.91	21.50	1.442	-	-	-0.1	0.115	0.166
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 2	ECI 4	518598	2592.99	19.93	21.50	1.435	-	-	-0.06	0.193	0.277
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 2	ECI 4	518598	2592.99	19.91	21.50	1.442	-	-	-0.04	0.164	0.237
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 2	ECI 4	518598	2592.99	22.84	24.50	1.466	50	1.000	0.01	0.184	0.270
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 3	ECI 4	518598	2592.99	18.79	20.00	1.321	-	-	0.03	0.098	0.129
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 3	ECI 4	518598	2592.99	18.75	20.00	1.334	-	-	-0.11	0.130	0.173
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 3	ECI 4	518598	2592.99	18.79	20.00	1.321	-	-	-0.16	0.165	0.218
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 3	ECI 4	518598	2592.99	18.75	20.00	1.334	-	-	0.15	0.218	0.291
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 3	ECI 4	518598	2592.99	21.71	23.00	1.346	50	1.000	0.09	0.228	0.307
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 5	ECI 4	518598	2592.99	20.06	21.50	1.393	-	-	0.15	0.125	0.174



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	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 5	ECI 4	518598	2592.99	20.03	21.50	1.403	-	-	-0.1	0.135	0.189
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	ECI 4	518598	2592.99	20.06	21.50	1.393	-	-	0.17	0.178	0.248
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 5	ECI 4	518598	2592.99	20.03	21.50	1.403	-	-	0.13	0.223	0.313
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 5	ECI 4	518598	2592.99	23.30	24.50	1.318	50	1.000	-0.09	0.223	0.294
3500MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 6	ECI 4	42590	3500	25.12	25.70	1.143	62.9	1.006	-0.15	0.148	0.170
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 6	ECI 4	42590	3500	24.16	24.70	1.132	62.9	1.006	-0.02	0.125	0.142
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 6	ECI 4	42590	3500	25.12	25.70	1.143	62.9	1.006	0.01	0.328	0.377
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 6	ECI 4	42590	3500	24.16	24.70	1.132	62.9	1.006	-0.09	0.271	0.309
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 8	ECI 4	42590	3500	20.34	22.00	1.466	62.9	1.006	0.05	0.089	0.131
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 8	ECI 4	42590	3500	20.29	22.00	1.483	62.9	1.006	0.1	0.085	0.127
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 8	ECI 4	42590	3500	20.34	22.00	1.466	62.9	1.006	-0.07	0.240	0.354
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 8	ECI 4	42590	3500	20.29	22.00	1.483	62.9	1.006	-0.04	0.232	0.346
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 7	ECI 4	42590	3500	24.17	25.50	1.358	62.9	1.006	-0.07	0.181	0.247
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 7	ECI 4	42590	3500	23.15	24.50	1.365	62.9	1.006	-0.03	0.165	0.227
80	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 4	42590	3500	24.17	25.50	1.358	62.9	1.006	-0.05	0.293	0.400
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 7	ECI 4	42590	3500	23.15	24.50	1.365	62.9	1.006	0.05	0.247	0.339
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 9	ECI 4	42590	3500	17.69	19.00	1.352	62.9	1.006	-0.11	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 9	ECI 4	42590	3500	17.66	19.00	1.361	62.9	1.006	0.07	0.043	0.059
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 9	ECI 4	42590	3500	17.69	19.00	1.352	62.9	1.006	0.01	0.117	0.159
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 9	ECI 4	42590	3500	17.66	19.00	1.361	62.9	1.006	-0.12	0.109	0.149
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 6	ECI 4	55830	3609	25.17	25.70	1.130	62.9	1.006	0.14	0.232	0.264
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 6	ECI 4	55830	3609	24.18	24.70	1.127	62.9	1.006	0.1	0.200	0.227
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 6	ECI 4	55830	3609	25.17	25.70	1.130	62.9	1.006	-0.09	0.569	0.647
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 6	ECI 4	55340	3560	25.13	25.70	1.140	62.9	1.006	0.07	0.513	0.588
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 6	ECI 4	56150	3641	25.15	25.70	1.135	62.9	1.006	-0.09	0.563	0.643
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 6	ECI 4	56640	3690	25.08	25.70	1.153	62.9	1.006	0.09	0.600	0.696
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 6	ECI 4	55830	3609	24.18	24.70	1.127	62.9	1.006	-0.16	0.415	0.471
	LTE Band 48	20M	QPSK	100	0	-	Back	15mm	Ant 6	ECI 4	55830	3609	24.16	24.70	1.132	62.9	1.006	-0.18	0.431	0.491
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 8	ECI 4	55830	3609	21.35	23.00	1.462	62.9	1.006	0.19	0.058	0.085
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 8	ECI 4	55830	3609	21.30	23.00	1.479	62.9	1.006	-0.01	0.056	0.083
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 8	ECI 4	55830	3609	21.35	23.00	1.462	62.9	1.006	-0.19	0.189	0.278
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 8	ECI 4	55830	3609	21.30	23.00	1.479	62.9	1.006	-0.03	0.184	0.274
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 7	ECI 4	55830	3609	24.12	25.50	1.374	62.9	1.006	-0.08	0.338	0.467
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 7	ECI 4	55830	3609	23.14	24.50	1.368	62.9	1.006	0.1	0.291	0.400
81	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 4	55830	3609	24.12	25.50	1.374	62.9	1.006	-0.03	0.558	0.771
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 4	55340	3560	24.08	25.50	1.387	62.9	1.006	-0.08	0.526	0.734
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 4	56150	3641	24.06	25.50	1.393	62.9	1.006	-0.08	0.545	0.764
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 4	56640	3690	24.05	25.50	1.396	62.9	1.006	0.1	0.537	0.754
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 7	ECI 4	55830	3609	23.14	24.50	1.368	62.9	1.006	0.12	0.474	0.652
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 7	ECI 4	55340	3560	23.04	24.50	1.400	62.9	1.006	-0.18	0.466	0.656
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 7	ECI 4	56150	3641	23.04	24.50	1.400	62.9	1.006	0.1	0.429	0.604
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 7	ECI 4	56640	3690	23.04	24.50	1.400	62.9	1.006	0.12	0.423	0.596
	LTE Band 48	20M	QPSK	100	0	-	Back	15mm	Ant 7	ECI 4	55830	3609	23.12	24.50	1.374	62.9	1.006	0.08	0.418	0.578
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 9	ECI 4	55830	3609	19.13	20.50	1.371	62.9	1.006	-0.15	0.048	0.066
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 9	ECI 4	55830	3609	19.10	20.50	1.380	62.9	1.006	-0.19	0.042	0.058
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 9	ECI 4	55830	3609	19.13	20.50	1.371	62.9	1.006	-0.13	0.246	0.339
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 9	ECI 4	55830	3609	19.10	20.50	1.380	62.9	1.006	-0.05	0.235	0.326
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	ECI 4	641666	3624.99	24.05	24.20	1.035	-	-	-0.04	0.350	0.362
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	15mm	Ant 6	ECI 4	641666	3624.99	24.03	24.20	1.040	-	-	0.13	0.377	0.392
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	641666	3624.99	24.05	24.20	1.035	-	-	0.12	0.857	0.887
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	638000	3570	23.81	24.20	1.094	-	-	0.07	0.853	0.933
82	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	645332	3679.98	23.88	24.20	1.076	-	-	0.01	0.899	0.968
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	641666	3624.99	24.03	24.20	1.040	-	-	0.19	0.790	0.822
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	638000	3570	23.94	24.20	1.062	-	-	-0.06	0.807	0.857
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	645332	3679.98	23.94	24.20	1.062	-	-	0.02	0.857	0.910



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	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	641666	3624.99	24.01	24.20	1.045	-	-	-0.03	0.797	0.833
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 8	ECI 4	641666	3624.99	21.75	22.50	1.189	-	-	0.07	0.167	0.198
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	15mm	Ant 8	ECI 4	641666	3624.99	21.69	22.50	1.205	-	-	-0.12	0.159	0.192
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	641666	3624.99	21.75	22.50	1.189	-	-	-0.03	0.691	0.821
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	638000	3570	21.62	22.50	1.225	-	-	0.02	0.672	0.823
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	645332	3679.98	21.58	22.50	1.236	-	-	0.12	0.637	0.787
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	641666	3624.99	21.69	22.50	1.205	-	-	0.02	0.669	0.806
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	638000	3570	21.58	22.50	1.236	-	-	-0.01	0.695	0.859
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	645332	3679.98	21.68	22.50	1.208	-	-	0.01	0.653	0.789
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	641666	3624.99	21.70	22.50	1.202	-	-	-0.1	0.658	0.791
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 7	ECI 4	641666	3624.99	23.11	24.00	1.227	-	-	0.05	0.366	0.449
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	15mm	Ant 7	ECI 4	641666	3624.99	23.09	24.00	1.233	-	-	0.02	0.382	0.471
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	641666	3624.99	23.11	24.00	1.227	-	-	0.07	0.668	0.820
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	638000	3570	22.92	24.00	1.282	-	-	0.15	0.687	0.881
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	645332	3679.98	22.96	24.00	1.271	-	-	-0.05	0.706	0.897
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	641666	3624.99	23.09	24.00	1.233	-	-	-0.08	0.692	0.853
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	638000	3570	22.90	24.00	1.288	-	-	-0.08	0.691	0.890
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	645332	3679.98	23.00	24.00	1.259	-	-	-0.06	0.727	0.915
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	641666	3624.99	23.08	24.00	1.236	-	-	0.01	0.667	0.824
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 9	ECI 4	641666	3624.99	17.31	18.00	1.172	-	-	-0.12	0.043	0.050
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	15mm	Ant 9	ECI 4	641666	3624.99	17.29	18.00	1.178	-	-	0.18	0.030	0.035
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 9	ECI 4	641666	3624.99	17.31	18.00	1.172	-	-	0.14	0.311	0.365
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 9	ECI 4	641666	3624.99	17.29	18.00	1.178	-	-	0.01	0.369	0.435
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	ECI 4	656000	3840	22.30	23.50	1.318	-	-	-0.11	0.228	0.301
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	ECI 4	656000	3840	22.24	23.50	1.337	-	-	0.03	0.217	0.290
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	656000	3840	22.30	23.50	1.318	-	-	-0.05	0.501	0.660
83	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	656000	3840	22.24	23.50	1.337	-	-	0.14	0.517	0.691
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	650000+ 656664	3750+ 3849.96	22.13	23.50	1.372	-	-	-0.07	0.502	0.689
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	656000	3840	25.05	26.00	1.245	50	1.000	0.05	0.477	0.594
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	ECI 4	633332	3499.98	22.55	23.50	1.245	-	-	-0.12	0.112	0.139
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	ECI 4	633332	3499.98	22.48	23.50	1.265	-	-	0.07	0.148	0.187
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	633332	3499.98	22.55	23.50	1.245	-	-	0.09	0.261	0.325
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	633332	3499.98	22.48	23.50	1.265	-	-	0.04	0.355	0.449
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	ECI 4	633332	3499.98	25.48	26.00	1.127	50	1.000	0.07	0.331	0.373
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 8	ECI 4	656000	3840	15.99	17.50	1.416	-	-	0.11	0.033	0.047
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 8	ECI 4	656000	3840	15.98	17.50	1.419	-	-	0.11	0.032	0.045
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	656000	3840	15.99	17.50	1.416	-	-	-0.06	0.048	0.068
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	656000	3840	15.98	17.50	1.419	-	-	-0.02	0.052	0.074
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	650000+ 656664	3750+ 3849.96	15.74	17.50	1.500	-	-	-0.01	0.047	0.070
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	656000	3840	18.96	20.50	1.426	50	1.000	0.01	0.055	0.078
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 8	ECI 4	633332	3499.98	16.21	17.50	1.346	-	-	0.09	0.032	0.043
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 8	ECI 4	633332	3499.98	16.18	17.50	1.355	-	-	-0.13	0.030	0.041
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	633332	3499.98	16.21	17.50	1.346	-	-	-0.09	0.069	0.093
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	633332	3499.98	16.18	17.50	1.355	-	-	-0.18	0.058	0.079
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 8	ECI 4	633332	3499.98	19.19	20.50	1.352	50	1.000	-0.08	0.070	0.095
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 7	ECI 4	656000	3840	21.33	23.00	1.469	-	-	0.12	0.239	0.351
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 7	ECI 4	656000	3840	21.40	23.00	1.445	-	-	0.02	0.194	0.280
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	656000	3840	21.33	23.00	1.469	-	-	-0.08	0.401	0.589
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	656000	3840	21.40	23.00	1.445	-	-	-0.11	0.410	0.593
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	650000+ 656664	3750+ 3849.96	21.30	23.00	1.479	-	-	-0.08	0.400	0.592
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	656000	3840	24.20	26.00	1.514	50	1.000	-0.05	0.362	0.548
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 7	ECI 4	633332	3499.98	21.77	23.00	1.327	-	-	0.03	0.125	0.166
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 7	ECI 4	633332	3499.98	21.61	23.00	1.377	-	-	-0.06	0.151	0.208
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	633332	3499.98	21.77	23.00	1.327	-	-	0.01	0.198	0.263
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	ECI 4	633332	3499.98	21.61	23.00	1.377	-	-	-0.07	0.234	0.322



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	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	ECl 4	633332	3499.98	24.59	26.00	1.384	50	1.000	0.03	0.218	0.302
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 9	ECl 4	656000	3840	14.88	16.00	1.294	-	-	-0.17	0.025	0.032
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 9	ECl 4	656000	3840	14.85	16.00	1.303	-	-	0.02	0.031	0.040
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	656000	3840	14.88	16.00	1.294	-	-	-0.11	0.160	0.207
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	656000	3840	14.85	16.00	1.303	-	-	0.18	0.169	0.220
	FR1 n77C	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	650000+ 656664	3750+ 3849.96	14.55	16.00	1.396	-	-	-0.04	0.151	0.211
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	656000	3840	17.85	19.00	1.303	50	1.000	0.16	0.172	0.224
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 9	ECl 4	633332	3499.98	14.71	16.00	1.346	-	-	0.19	0.042	0.057
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 9	ECl 4	633332	3499.98	14.69	16.00	1.352	-	-	0.13	0.028	0.038
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	633332	3499.98	14.71	16.00	1.346	-	-	-0.03	0.095	0.128
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	633332	3499.98	14.69	16.00	1.352	-	-	0.12	0.125	0.169
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	633332	3499.98	17.66	19.00	1.361	50	1.000	0.19	0.128	0.174
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	ECl 4	650000	3750	22.97	23.50	1.130	-	-	-0.13	0.362	0.409
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	ECl 4	650000	3750	22.94	23.50	1.138	-	-	0.12	0.316	0.359
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	ECl 4	650000	3750	22.97	23.50	1.130	-	-	-0.11	0.749	0.846
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	ECl 4	650000	3750	22.94	23.50	1.138	-	-	0.17	0.649	0.738
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	15mm	Ant 6	ECl 4	650000	3750	22.90	23.50	1.148	-	-	-0.16	0.635	0.729
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	ECl 4	650000	3750	26.05	26.50	1.109	50	1.000	0.03	0.804	0.892
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	ECl 4	633332	3499.98	23.08	23.50	1.102	-	-	0.11	0.135	0.149
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	ECl 4	633332	3499.98	23.07	23.50	1.104	-	-	-0.05	0.162	0.179
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	ECl 4	633332	3499.98	23.08	23.50	1.102	-	-	-0.01	0.279	0.307
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	ECl 4	633332	3499.98	23.07	23.50	1.104	-	-	-0.14	0.395	0.436
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	ECl 4	633332	3499.98	25.65	26.50	1.216	50	1.000	0.05	0.352	0.428
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 8	ECl 4	650000	3750	17.13	18.00	1.222	-	-	-0.09	0.051	0.062
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 8	ECl 4	650000	3750	16.96	18.00	1.271	-	-	-0.12	0.062	0.079
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 8	ECl 4	650000	3750	17.13	18.00	1.222	-	-	0.07	0.062	0.076
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 8	ECl 4	650000	3750	16.96	18.00	1.271	-	-	-0.18	0.075	0.095
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 8	ECl 4	650000	3750	19.96	21.00	1.271	50	1.000	-0.06	0.080	0.102
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 8	ECl 4	633332	3499.98	17.09	18.00	1.233	-	-	-0.15	0.037	0.046
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 8	ECl 4	633332	3499.98	17.05	18.00	1.245	-	-	-0.15	0.036	0.045
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 8	ECl 4	633332	3499.98	17.09	18.00	1.233	-	-	-0.08	0.093	0.115
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 8	ECl 4	633332	3499.98	17.05	18.00	1.245	-	-	-0.04	0.078	0.097
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 8	ECl 4	633332	3499.98	19.96	21.00	1.271	50	1.000	0.02	0.095	0.121
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 7	ECl 4	650000	3750	22.40	23.50	1.288	-	-	-0.17	0.399	0.514
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 7	ECl 4	650000	3750	22.13	23.50	1.371	-	-	0.08	0.379	0.520
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	ECl 4	650000	3750	22.40	23.50	1.288	-	-	0.01	0.656	0.845
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	ECl 4	650000	3750	22.13	23.50	1.371	-	-	0.02	0.713	0.977
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	15mm	Ant 7	ECl 4	650000	3750	22.01	23.50	1.409	-	-	-0.11	0.623	0.878
84	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	ECl 4	650000	3750	24.96	26.50	1.426	50	1.000	-0.06	0.735	1.048
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 7	ECl 4	633332	3499.98	22.84	23.50	1.164	-	-	0.09	0.177	0.206
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 7	ECl 4	633332	3499.98	22.61	23.50	1.227	-	-	0.1	0.218	0.268
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	ECl 4	633332	3499.98	22.84	23.50	1.164	-	-	-0.04	0.276	0.321
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	ECl 4	633332	3499.98	22.61	23.50	1.227	-	-	0.15	0.371	0.455
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	ECl 4	633332	3499.98	25.50	26.50	1.259	50	1.000	-0.06	0.377	0.475
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 9	ECl 4	650000	3750	15.35	16.50	1.303	-	-	-0.07	0.033	0.043
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 9	ECl 4	650000	3750	15.31	16.50	1.315	-	-	-0.08	0.024	0.032
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	650000	3750	15.35	16.50	1.303	-	-	0.12	0.319	0.416
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	650000	3750	15.31	16.50	1.315	-	-	-0.07	0.225	0.296
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	650000	3750	18.39	19.50	1.291	50	1.000	-0.05	0.330	0.426
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 9	ECl 4	633332	3499.98	15.18	16.50	1.355	-	-	0.13	0.027	0.037
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 9	ECl 4	633332	3499.98	15.13	16.50	1.371	-	-	-0.03	0.026	0.036
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	633332	3499.98	15.18	16.50	1.355	-	-	0.09	0.106	0.144
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	633332	3499.98	15.13	16.50	1.371	-	-	0.06	0.134	0.184
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 9	ECl 4	633332	3499.98	18.12	19.50	1.374	50	1.000	-0.04	0.140	0.192



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)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 17+7(17)	Full power	6	2437	19.74	20.50	1.191	98.47	1.016	0.12	0.185	0.224
85	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 17+7(17)	Full power	6	2437	19.74	20.50	1.191	98.47	1.016	-0.07	0.306	0.370
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 17+7(17)	WWAN+DBS	6	2437	17.88	18.50	1.153	98.47	1.016	0.08	0.121	0.142
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 17+7(17)	WWAN+DBS	6	2437	17.88	18.50	1.153	98.47	1.016	0.02	0.199	0.233
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 7	Full power	6	2437	19.29	20.00	1.178	98.47	1.016	0.01	0.085	0.102
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7	Full power	6	2437	19.29	20.00	1.178	98.47	1.016	0.01	0.140	0.168
	Bluetooth	1Mbps	Front	15mm	Ant 17	Full power	39	2441	15.78	16.50	1.180	76.80	1.085	-0.08	0.063	0.081
86	Bluetooth	1Mbps	Back	15mm	Ant 17	Full power	39	2441	15.78	16.50	1.180	76.80	1.085	-0.02	0.113	0.145
5000MHz																
	WLAN5.3GHz	802.11ax-HE40 MCS0	Front	15mm	Ant 18+19(18)	Full power	54	5270	18.58	19.50	1.236	100	1.000	0.03	0.227	0.281
87	WLAN5.3GHz	802.11ax-HE40 MCS0	Back	15mm	Ant 18+19(18)	Full power	54	5270	18.58	19.50	1.236	100	1.000	0.01	0.288	0.356
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 18+19(19)	WWAN+DBS/non DBS	58	5290	16.62	17.50	1.225	100	1.000	0.12	0.148	0.181
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 18+19(19)	WWAN+DBS/non DBS	58	5290	16.62	17.50	1.225	100	1.000	0.08	0.188	0.230
	WLAN5.5GHz	802.11ax-HE40 MCS0	Front	15mm	Ant 18+19(18)	Full power	126	5630	18.52	19.50	1.253	100	1.000	0.14	0.142	0.178
88	WLAN5.5GHz	802.11ax-HE40 MCS0	Back	15mm	Ant 18+19(18)	Full power	126	5630	18.52	19.50	1.253	100	1.000	0.01	0.296	0.371
	WLAN5.5GHz	802.11ax-HE80 MCS0	Front	15mm	Ant 18+19(19)	WWAN+DBS/non DBS	122	5610	16.71	17.50	1.199	100	1.000	-0.17	0.091	0.109
	WLAN5.5GHz	802.11ax-HE80 MCS0	Back	15mm	Ant 18+19(19)	WWAN+DBS/non DBS	122	5610	16.71	17.50	1.199	100	1.000	-0.03	0.190	0.228
	WLAN5.8GHz	802.11a 6Mbps	Front	15mm	Ant 18+19(18)	Full power	165	5825	19.13	20.00	1.222	93.33	1.071	0.08	0.271	0.355
89	WLAN5.8GHz	802.11a 6Mbps	Back	15mm	Ant 18+19(18)	Full power	165	5825	19.13	20.00	1.222	93.33	1.071	0.01	0.404	0.529
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 18+19(18)	WWAN+DBS/non DBS	155	5775	16.20	17.00	1.202	100	1.000	0.14	0.135	0.162
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 18+19(18)	WWAN+DBS/non DBS	155	5775	16.20	17.00	1.202	100	1.000	0.11	0.201	0.242



16.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
835MHz																		
90	GSM850					GPRS (4 Tx slots)	Left Side	0mm	Ant 1	ECI 4	189	836.4	27.16	28.50	1.361	0.02	1.500	2.042
	GSM850					GPRS (4 Tx slots)	Left Side	0mm	Ant 1	ECI 4	128	824.2	27.09	28.50	1.384	-0.01	1.450	2.006
	GSM850					GPRS (4 Tx slots)	Left Side	0mm	Ant 1	ECI 4	251	848.8	27.02	28.50	1.406	-0.08	1.430	2.011
1750MHz																		
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	0mm	Ant 5	ECI 4	349000	1745	22.53	23.50	1.250	0.02	1.950	2.438
91	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	0mm	Ant 5	ECI 4	349000	1745	22.51	23.50	1.256	0.04	2.010	2.525
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Side	0mm	Ant 5	ECI 4	349000	1745	22.45	23.50	1.274	0.05	1.890	2.407
1900MHz																		
	LTE Band 2	20M	QPSK	1	0		Bottom Side	0mm	Ant 2	ECI 4	18900	1880	21.13	22.00	1.222	-0.17	1.890	2.309
	LTE Band 2	20M	QPSK	1	0		Bottom Side	0mm	Ant 2	ECI 4	18700	1860	21.04	22.00	1.247	0.17	1.850	2.308
	LTE Band 2	20M	QPSK	1	0		Bottom Side	0mm	Ant 2	ECI 4	19100	1900	20.98	22.00	1.265	-0.05	1.830	2.314
92	LTE Band 2	20M	QPSK	50	0		Bottom Side	0mm	Ant 2	ECI 4	18900	1880	21.09	22.00	1.233	0.01	1.920	2.368
	LTE Band 2	20M	QPSK	50	0		Bottom Side	0mm	Ant 2	ECI 4	18700	1860	20.92	22.00	1.282	0.1	1.800	2.308
	LTE Band 2	20M	QPSK	50	0		Bottom Side	0mm	Ant 2	ECI 4	19100	1900	20.92	22.00	1.282	-0.17	1.790	2.295
	LTE Band 2	20M	QPSK	100	0		Bottom Side	0mm	Ant 2	ECI 4	18900	1880	21.02	22.00	1.253	0.04	1.750	2.193
93	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	ECI 4	376000	1880	21.93	22.70	1.194	-0.01	2.120	2.531
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	ECI 4	372000	1860	21.72	22.70	1.253	-0.08	1.980	2.481
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	ECI 4	380000	1900	21.77	22.70	1.239	0.1	1.950	2.416
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	ECI 4	376000	1880	21.90	22.70	1.202	-0.08	2.060	2.477
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	ECI 4	372000	1860	21.77	22.70	1.239	-0.18	1.890	2.341
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	ECI 4	380000	1900	21.75	22.70	1.245	0.1	1.860	2.315
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	ECI 4	376000	1880	21.85	22.70	1.216	0.12	1.830	2.226
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 3	ECI 4	376000	1880	20.46	21.50	1.271	0.08	0.914	1.161
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 3	ECI 4	376000	1880	20.44	21.50	1.276	-0.17	0.896	1.144
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 3	ECI 4	376000	1880	20.46	21.50	1.271	0.01	1.920	2.440
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 3	ECI 4	372000	1860	20.35	21.50	1.303	0.14	1.850	2.411
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 3	ECI 4	380000	1900	20.40	21.50	1.288	0.11	1.800	2.319
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	0mm	Ant 3	ECI 4	376000	1880	20.44	21.50	1.276	-0.03	1.890	2.412
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	0mm	Ant 3	ECI 4	372000	1860	20.32	21.50	1.312	-0.05	1.820	2.388
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	0mm	Ant 3	ECI 4	380000	1900	20.31	21.50	1.315	0.18	1.830	2.407
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Left Side	0mm	Ant 3	ECI 4	376000	1880	20.41	21.50	1.285	0.14	1.800	2.314
2600MHz																		
94	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 9	ECI 4	641666	3624.99	17.31	18.00	1.172	-0.06	1.400	1.641
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	0mm	Ant 9	ECI 4	641666	3624.99	17.29	18.00	1.178	0.02	1.350	1.590



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)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 17+7(17)	WWAN+non DBS	6	2437	19.74	20.50	1.191	98.47	1.016	-0.04	1.092	1.322
95	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 17+7(17)	WWAN+non DBS	6	2437	19.74	20.50	1.191	98.47	1.016	-0.02	1.300	1.573
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 17+7(17)	WWAN+DBS	6	2437	15.81	16.50	1.172	98.47	1.016	0.08	0.476	0.567
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 17+7(17)	WWAN+DBS	6	2437	15.81	16.50	1.172	98.47	1.016	0.01	0.573	0.682
5000MHz																
	WLAN5.3GHz	802.11ax-HE40 MCS0	Front	0mm	Ant 18+19(18)	DBS only/WWAN+DBS/non DBS	54	5270	18.58	19.50	1.236	100	1.000	-0.15	0.853	1.054
	WLAN5.3GHz	802.11ax-HE40 MCS0	Back	0mm	Ant 18+19(18)	DBS only/WWAN+DBS/non DBS	54	5270	18.58	19.50	1.236	100	1.000	0.11	0.568	0.702
	WLAN5.3GHz	802.11ax-HE40 MCS0	Left Side	0mm	Ant 18+19(18)	DBS only/WWAN+DBS/non DBS	54	5270	18.58	19.50	1.236	100	1.000	-0.08	0.037	0.046
	WLAN5.3GHz	802.11ax-HE40 MCS0	Right Side	0mm	Ant 18+19(18)	DBS only/WWAN+DBS/non DBS	54	5270	18.58	19.50	1.236	100	1.000	-0.17	0.920	1.137
96	WLAN5.3GHz	802.11ax-HE40 MCS0	Top Side	0mm	Ant 18+19(18)	DBS only/WWAN+DBS/non DBS	54	5270	18.58	19.50	1.236	100	1.000	-0.12	1.790	2.212
	WLAN5.3GHz	802.11ax-HE40 MCS0	Top Side	0mm	Ant 18+19(19)	DBS only/WWAN+DBS/non DBS	62	5310	18.20	19.00	1.202	100	1.000	-0.08	1.310	1.575
	WLAN5.5GHz	802.11ax-HE40 MCS0	Front	0mm	Ant 18+19(18)	DBS only/WWAN+DBS/non DBS	126	5630	18.52	19.50	1.253	100	1.000	-0.15	0.695	0.871
	WLAN5.5GHz	802.11ax-HE40 MCS0	Back	0mm	Ant 18+19(18)	DBS only/WWAN+DBS/non DBS	126	5630	18.52	19.50	1.253	100	1.000	0.19	0.619	0.776
	WLAN5.5GHz	802.11ax-HE40 MCS0	Left Side	0mm	Ant 18+19(18)	DBS only/WWAN+DBS/non DBS	126	5630	18.52	19.50	1.253	100	1.000	0.07	0.059	0.074
	WLAN5.5GHz	802.11ax-HE40 MCS0	Right Side	0mm	Ant 18+19(18)	DBS only/WWAN+DBS/non DBS	126	5630	18.52	19.50	1.253	100	1.000	-0.18	0.886	1.110
97	WLAN5.5GHz	802.11ax-HE40 MCS0	Top Side	0mm	Ant 18+19(18)	DBS only/WWAN+DBS/non DBS	126	5630	18.52	19.50	1.253	100	1.000	0.03	1.300	1.629
98	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 18+19(18)	WWAN+DBS/non DBS	165	5825	19.13	20.00	1.222	93.33	1.071	-0.01	1.930	2.525
	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 18+19(19)	WWAN+DBS/non DBS	149	5745	18.77	19.50	1.183	93.33	1.071	-0.13	1.860	2.357
	WLAN5.8GHz	802.11ax-HE40 MCS0	Top Side	0mm	Ant 18+19(18)	DBS only	159	5795	18.20	19.00	1.202	100.00	1.000	0.06	1.610	1.936

16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 1	20525	836.5	22.53	23.20	1.167	-	-	0.03	0.937	1	1.093
2nd	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 1	20525	836.5	22.53	23.20	1.167	-	-	0.01	0.925	1.013	1.079
1st	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	20175	1732.5	18.12	18.70	1.143	-	-	-0.06	0.919	1	1.050
2nd	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	20175	1732.5	18.12	18.70	1.143	-	-	0.02	0.910	1.010	1.040
1st	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	18900	1880	17.93	19.00	1.279	-	-	-0.03	0.839	1	1.073
2nd	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 1	18900	1880	17.93	19.00	1.279	-	-	0.01	0.825	1.017	1.055
1st	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	507000	2535	18.79	19.70	1.233	-	-	-0.07	0.828	1	1.021
2nd	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI 1	507000	2535	18.79	19.70	1.233	-	-	0.01	0.816	1.015	1.006
1st	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI 1	42590	3500	20.18	20.70	1.127	62.9	1.006	-0.11	0.897	1	1.017
2nd	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI 1	42590	3500	20.18	20.70	1.127	62.9	1.006	0.02	0.889	1.009	1.008
1st	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	645332	3679.98	15.46	15.70	1.057	-	-	-0.01	0.942	1	0.996
2nd	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	645332	3679.98	15.46	15.70	1.057	-	-	0.06	0.938	1.004	0.991
1st	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	656000	3840	18.95	20.00	1.274	50	1.000	0.01	0.839	1	1.068
2nd	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI 1	656000	3840	18.95	20.00	1.274	50	1.000	0.05	0.826	1.016	1.052
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 7	non DBS	6	2437	18.45	19.00	1.135	98.47	1.016	0.07	0.912	1	1.052
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 7	non DBS	6	2437	18.45	19.00	1.135	98.47	1.016	0.02	0.906	1.007	1.045
1st	WLAN5.5GHz	-	-	-	-	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 18+19(19)	Standalone	122	5610	17.68	18.50	1.208	100	1.000	0.13	0.803	1	0.970
2nd	WLAN5.5GHz	-	-	-	-	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 18+19(19)	Standalone	122	5610	17.68	18.50	1.208	100	1.000	0.02	0.798	1.006	0.964
1st	WLAN5.8GHz	-	-	-	-	802.11ax-HE40 MCS0	Top Side	10mm	Ant 18+19(18)	Standalone	159	5795	18.20	19.00	1.202	100	1.000	-0.02	0.846	1	1.017
2nd	WLAN5.8GHz	-	-	-	-	802.11ax-HE40 MCS0	Top Side	10mm	Ant 18+19(18)	Standalone	159	5795	18.20	19.00	1.202	100	1.000	0.06	0.835	1.013	1.004

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	0mm	Ant 5	ECI 4	349000	1745	22.51	23.50	1.256	-	-	0.04	2.010	1	2.525
2nd	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	0mm	Ant 5	ECI 4	349000	1745	22.51	23.50	1.256	-	-	0.02	1.980	1.015	2.487
1st	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	ECI 4	376000	1880	21.93	22.70	1.194	-	-	-0.01	2.120	1	2.531
2nd	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	ECI 4	376000	1880	21.93	22.70	1.194	-	-	0.03	2.090	1.014	2.495

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16.6 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.

FR1 n41 HPUE (HPUE)-Linearity Data for Head Ant2			FR1 n41 HPUE (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)	25.00	27.50	Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.285	0.274	Reported 1g SAR (W/kg)	0.946	1.023
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	316.23	281.17	Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.253		Linearity SAR (W/kg)	0.944	
% deviation from expected linearity		8.13%	% deviation from expected linearity		8.40%
FR1 n41 HPUE (HPUE)-Linearity Data for Body-worn Ant2			FR1 n41 HPUE (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)	21.50	24.50	Maximum Tune up Power (dBm)	20.00	23.00
Reported 1g SAR (W/kg)	0.277	0.270	Reported 1g SAR (W/kg)	0.291	0.307
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	140.92	Frame Averaged (mW)	100.00	99.76
Linearity SAR (W/kg)	0.276		Linearity SAR (W/kg)	0.290	
% deviation from expected linearity		-2.30%	% deviation from expected linearity		5.75%
FR1 n41 HPUE (HPUE)-Linearity Data for Hotspot Ant2			FR1 n41 HPUE (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)	21.50	24.50	Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.540	0.532	Reported 1g SAR (W/kg)	0.202	0.189
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	140.92	Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.539		Linearity SAR (W/kg)	0.202	
% deviation from expected linearity		-1.25%	% deviation from expected linearity		-6.21%

FR1 n41 HPUE (HPUE)-Linearity Data for Head Ant4			FR1 n41 HPUE (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)	17.00	20.00	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.882	0.951	Reported 1g SAR (W/kg)	0.952	1.019
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.880		Linearity SAR (W/kg)	0.950	
% deviation from expected linearity		8.08%	% deviation from expected linearity		7.29%
FR1 n41 HPUE (HPUE)-Linearity Data for Body-worn Ant4			FR1 n41 HPUE (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)	24.50	27.00	Maximum Tune up Power (dBm)	21.50	24.50
Reported 1g SAR (W/kg)	0.604	0.519	Reported 1g SAR (W/kg)	0.313	0.294
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	281.84	250.59	Frame Averaged (mW)	141.25	140.92
Linearity SAR (W/kg)	0.537		Linearity SAR (W/kg)	0.312	
% deviation from expected linearity		-3.36%	% deviation from expected linearity		-5.85%
FR1 n41 HPUE (HPUE)-Linearity Data for Hotspot Ant4			FR1 n41 HPUE (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)	17.00	20.00	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.158	0.156	Reported 1g SAR (W/kg)	0.405	0.401
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.158		Linearity SAR (W/kg)	0.404	
% deviation from expected linearity		-1.03%	% deviation from expected linearity		-0.75%

NR n77 Part27O (HPUE)-Linearity Data for Head Ant9			NR n77 Part27Q (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)	21.50	24.50	Maximum Tune up Power (dBm)	21.50	24.50
Reported 1g SAR (W/kg)	0.341	0.353	Reported 1g SAR (W/kg)	0.350	0.370
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	140.92	Frame Averaged (mW)	141.25	140.92
Linearity SAR (W/kg)	0.340		Linearity SAR (W/kg)	0.349	
% deviation from expected linearity		3.76%	% deviation from expected linearity		5.97%
NR n77 Part27O (HPUE)-Linearity Data for Body-worn Ant9			NR n77 Part27Q (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)	16.00	19.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.207	0.221	Reported 1g SAR (W/kg)	0.169	0.174
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)	0.207		Linearity SAR (W/kg)	0.169	
% deviation from expected linearity		7.02%	% deviation from expected linearity		3.20%
NR n77 Part27O (HPUE)-Linearity Data for Hotspot Ant9			NR n77 Part27Q (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)	16.00	19.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.659	0.666	Reported 1g SAR (W/kg)	0.475	0.508
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)	0.657		Linearity SAR (W/kg)	0.474	
% deviation from expected linearity		1.30%	% deviation from expected linearity		7.20%

NR n77 Part270 (HPUE)-Linearity Data for Head Ant6			NR n77 Part27Q (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)	17.00	20.00	Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.993	1.068	Reported 1g SAR (W/kg)	0.490	0.514
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)	0.991		Linearity SAR (W/kg)	0.489	
% deviation from expected linearity		7.81%	% deviation from expected linearity		5.15%
NR n77 Part270 (HPUE)-Linearity Data for Body-worn Ant6			NR n77 Part27Q (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)	23.50	26.00	Maximum Tune up Power (dBm)	23.50	26.00
Reported 1g SAR (W/kg)	0.691	0.585	Reported 1g SAR (W/kg)	0.449	0.373
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	223.87	199.05	Frame Averaged (mW)	223.87	199.05
Linearity SAR (W/kg)	0.614		Linearity SAR (W/kg)	0.399	
% deviation from expected linearity		-4.78%	% deviation from expected linearity		-6.57%
NR n77 Part270 (HPUE)-Linearity Data for Hotspot Ant6			NR n77 Part27Q (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)	17.00	20.00	Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.507	0.531	Reported 1g SAR (W/kg)	0.315	0.319
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)	0.506		Linearity SAR (W/kg)	0.314	
% deviation from expected linearity		4.98%	% deviation from expected linearity		1.51%
NR n77 Part270 (HPUE)-Linearity Data for Head Ant7			NR n77 Part27Q (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)	16.50	19.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	0.914	0.933	Reported 1g SAR (W/kg)	0.544	0.564
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	0.912		Linearity SAR (W/kg)	0.543	
% deviation from expected linearity		2.32%	% deviation from expected linearity		3.92%
NR n77 Part270 (HPUE)-Linearity Data for Body-worn Ant7			NR n77 Part27Q (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)	23.00	26.00	Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.593	0.545	Reported 1g SAR (W/kg)	0.322	0.302
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05	Frame Averaged (mW)	199.53	199.05
Linearity SAR (W/kg)	0.592		Linearity SAR (W/kg)	0.321	
% deviation from expected linearity		-7.88%	% deviation from expected linearity		-5.99%
NR n77 Part270 (HPUE)-Linearity Data for Hotspot Ant7			NR n77 Part27Q (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)	16.50	19.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	0.382	0.406	Reported 1g SAR (W/kg)	0.218	0.232
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	0.381		Linearity SAR (W/kg)	0.217	
% deviation from expected linearity		6.54%	% deviation from expected linearity		6.67%

NR n77 Part270 (HPUE)-Linearity Data for Head Ant8			NR n77 Part27Q (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)	14.50	17.50	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.691	0.739	Reported 1g SAR (W/kg)	0.429	0.461
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	28.18	28.12	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.689		Linearity SAR (W/kg)	0.428	
% deviation from expected linearity		7.20%	% deviation from expected linearity		7.71%
NR n77 Part270 (HPUE)-Linearity Data for Body-worn Ant8			NR n77 Part27Q (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)	0.074	0.078	Reported 1g SAR (W/kg)	0.093	0.095
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)	0.074		Linearity SAR (W/kg)	0.093	
% deviation from expected linearity		5.66%	% deviation from expected linearity		2.39%
NR n77 Part270 (HPUE)-Linearity Data for Hotspot Ant8			NR n77 Part27Q (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)	14.50	17.50	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.163	0.160	Reported 1g SAR (W/kg)	0.210	0.221
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	28.18	28.12	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.163		Linearity SAR (W/kg)	0.210	
% deviation from expected linearity		-1.61%	% deviation from expected linearity		5.49%

NR N78 Part270 (HPUE)-Linearity Data for Head Ant9			NR N78 Part27Q (HPUE)-Linearity Data for Head Ant9		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (Power Class 2)
Maximum Tune up Power (dBm)	22.50	25.50	Maximum Tune up Power (dBm)	22.50	25.50
Reported 1g SAR (W/kg)	0.358	0.374	Reported 1g SAR (W/kg)	0.371	0.388
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	177.83	177.41	Frame Averaged (mW)	177.83	177.41
Linearity SAR (W/kg)	0.357		Linearity SAR (W/kg)	0.370	
% deviation from expected linearity		4.72%	% deviation from expected linearity		4.83%
NR N78 Part270 (HPUE)-Linearity Data for Body-worn Ant9			NR N78 Part27Q (HPUE)-Linearity Data for Body-worn Ant9		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	0.416	0.426	Reported 1g SAR (W/kg)	0.184	0.192
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	0.415		Linearity SAR (W/kg)	0.184	
% deviation from expected linearity		2.65%	% deviation from expected linearity		4.60%
NR N78 Part270 (HPUE)-Linearity Data for Hotspot Ant9			NR N78 Part27Q (HPUE)-Linearity Data for Hotspot Ant9		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	0.950	0.976	Reported 1g SAR (W/kg)	0.418	0.448
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	0.948		Linearity SAR (W/kg)	0.417	
% deviation from expected linearity		2.98%	% deviation from expected linearity		7.43%

NR N78 Part270 (HPUE)-Linearity Data for Head Ant6			NR N78 Part27Q (HPUE)-Linearity Data for Head Ant6		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (Power Class 2)
Maximum Tune up Power (dBm)	15.00	18.00	Maximum Tune up Power (dBm)	15.00	18.00
Reported 1g SAR (W/kg)	0.946	0.968	Reported 1g SAR (W/kg)	0.461	0.465
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55	Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	0.944		Linearity SAR (W/kg)	0.460	
% deviation from expected linearity		2.57%	% deviation from expected linearity		1.11%
NR N78 Part270 (HPUE)-Linearity Data for Body-worn Ant6			NR N78 Part27Q (HPUE)-Linearity Data for Body-worn Ant6		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	26.50	Maximum Tune up Power (dBm)	23.50	26.50
Reported 1g SAR (W/kg)	0.846	0.892	Reported 1g SAR (W/kg)	0.436	0.428
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	223.87	223.34	Frame Averaged (mW)	223.87	223.34
Linearity SAR (W/kg)	0.844		Linearity SAR (W/kg)	0.435	
% deviation from expected linearity		5.69%	% deviation from expected linearity		-1.60%
NR N78 Part270 (HPUE)-Linearity Data for Hotspot Ant6			NR N78 Part27Q (HPUE)-Linearity Data for Hotspot Ant6		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (Power Class 2)
Maximum Tune up Power (dBm)	15.00	18.00	Maximum Tune up Power (dBm)	15.00	18.00
Reported 1g SAR (W/kg)	0.424	0.439	Reported 1g SAR (W/kg)	0.180	0.192
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55	Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	0.423		Linearity SAR (W/kg)	0.180	
% deviation from expected linearity		3.78%	% deviation from expected linearity		6.92%

NR N78 Part270 (HPUE)-Linearity Data for Head Ant7			NR N78 Part27Q (HPUE)-Linearity Data for Head Ant7		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50	Maximum Tune up Power (dBm)	15.50	18.50
Reported 1g SAR (W/kg)	0.918	0.953	Reported 1g SAR (W/kg)	0.446	0.483
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40	Frame Averaged (mW)	35.48	35.40
Linearity SAR (W/kg)	0.916		Linearity SAR (W/kg)	0.445	
% deviation from expected linearity		4.06%	% deviation from expected linearity		8.55%
NR N78 Part270 (HPUE)-Linearity Data for Body-worn Ant7			NR N78 Part27Q (HPUE)-Linearity Data for Body-worn Ant7		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	26.50	Maximum Tune up Power (dBm)	23.50	26.50
Reported 1g SAR (W/kg)	0.977	1.048	Reported 1g SAR (W/kg)	0.455	0.475
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	223.87	223.34	Frame Averaged (mW)	223.87	223.34
Linearity SAR (W/kg)	0.975		Linearity SAR (W/kg)	0.454	
% deviation from expected linearity		7.52%	% deviation from expected linearity		4.64%
NR N78 Part270 (HPUE)-Linearity Data for Hotspot Ant7			NR N78 Part27Q (HPUE)-Linearity Data for Hotspot Ant7		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50	Maximum Tune up Power (dBm)	15.50	18.50
Reported 1g SAR (W/kg)	0.390	0.403	Reported 1g SAR (W/kg)	0.225	0.230
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40	Frame Averaged (mW)	35.48	35.40
Linearity SAR (W/kg)	0.389		Linearity SAR (W/kg)	0.224	
% deviation from expected linearity		3.58%	% deviation from expected linearity		2.46%

NR N78 Part270 (HPUE)-Linearity Data for Head Ant8			NR N78 Part27Q (HPUE)-Linearity Data for Head Ant8		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (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)	0.722	0.751	Reported 1g SAR (W/kg)	0.365	0.373
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)	0.720		Linearity SAR (W/kg)	0.364	
% deviation from expected linearity		4.26%	% deviation from expected linearity		2.43%
NR N78 Part270 (HPUE)-Linearity Data for Body-worn Ant8			NR N78 Part27Q (HPUE)-Linearity Data for Body-worn Ant8		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (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)	0.095	0.102	Reported 1g SAR (W/kg)	0.115	0.121
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)	0.095		Linearity SAR (W/kg)	0.115	
% deviation from expected linearity		7.62%	% deviation from expected linearity		5.47%
NR N78 Part270 (HPUE)-Linearity Data for Hotspot Ant8			NR N78 Part27Q (HPUE)-Linearity Data for Hotspot Ant8		
	NR N78 (Power Class 3)	NR N78 (Power Class 2)		NR N78 (Power Class 3)	NR N78 (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)	0.180	0.187	Reported 1g SAR (W/kg)	0.206	0.219
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)	0.180		Linearity SAR (W/kg)	0.206	
% deviation from expected linearity		4.14%	% deviation from expected linearity		6.56%

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN 2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN 5GHz	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
4.	2.4GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
5.	5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
6.	5GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
7.	WWAN + WLAN 2.4GHz + Bluetooth	Yes	Yes	Yes	Yes
8.	WWAN +5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
9.	WWAN +5GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
10.	WWAN + 2.4GHz WLAN+ NFC				Yes
11.	WWAN + 5GHz WLAN+ NFC				Yes
12.	WWAN + Bluetooth+ NFC				Yes
13.	2.4GHz WLAN + Bluetooth+ NFC				Yes
14.	5GHz WLAN + Bluetooth+ NFC				Yes
15.	5GHz WLAN + 2.4GHz WLAN+ NFC				Yes
16.	WWAN + WLAN 2.4GHz + Bluetooth+ NFC				Yes
17.	WWAN +5GHz WLAN + Bluetooth+ NFC				Yes
18.	WWAN +5GHzWLAN + 2.4GHz WLAN+ NFC				Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands and EN-DC combination.
- WLAN2.4GHz/WLAN5GHz MIMO SAR can represent SISO SAR to do co-located SAR analysis.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- For EN-DC mode, MediaTek TA-SAR 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.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- According to the EUT characteristic, WLAN5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously; WLAN2.4GHz ANT7 and Bluetooth ANT17 can transmit simultaneously.
- According to the EUT characteristic, WLAN2.4GHz ant 17 and WLAN5GHz ant 19 can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz + WLAN 2.4GHz + Bluetooth cannot transmit simultaneously.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- 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.
- 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.
- The maximum SAR summation is calculated based on the same configuration and test position.
- For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is

determined from 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 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 $< 4.0W/kg$.

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., 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 2 report.

17.2 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12
		WWAN	WLAN2.4GHz Ant 17+7 (WWAN+non DBS)	WLAN2.4GHz Ant 7 (non DBS)	WLAN2.4GHz Ant 7 (WWAN+non DBS)	WLAN2.4GHz Ant 17 (DBS only)	WLAN2.4GHz Ant 17 (WWAN+DBS)	WLAN5GHz Ant 18+19 (Standalone)	WLAN5GHz Ant 18+19 (WWAN+non DBS)	WLAN5GHz Ant 18+19 (DBS only)	WLAN5GHz Ant 19 (WWAN+DBS)	Bluetooth Ant 17 (Standalone)	Bluetooth Ant 17 (WWAN+non DBS)
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands(Ant 0)	Right Cheek	0.357	0.326	0.619	0.129	0.463	0.151	0.534	0.133	0.427	0.133	0.342	0.162
	Right Tilted	0.235	0.382	0.726	0.152	0.543	0.175	0.542	0.134	0.433	0.134	0.370	0.176
	Left Cheek	0.328	0.479	1.052	0.220	0.787	0.220	1.015	0.248	0.787	0.248	0.489	0.232
	Left Tilted	0.194	0.407	0.774	0.162	0.578	0.187	0.878	0.219	0.702	0.219	0.421	0.200
All Bands(Ant 1)	Right Cheek	0.570	0.326	0.619	0.129	0.463	0.151	0.534	0.133	0.427	0.133	0.342	0.162
	Right Tilted	0.098	0.382	0.726	0.152	0.543	0.175	0.542	0.134	0.433	0.134	0.370	0.176
	Left Cheek	1.083	0.479	1.052	0.220	0.787	0.220	1.015	0.248	0.787	0.248	0.489	0.232
	Left Tilted	0.149	0.407	0.774	0.162	0.578	0.187	0.878	0.219	0.702	0.219	0.421	0.200
All Bands(Ant 2)	Right Cheek	0.234	0.326	0.619	0.129	0.463	0.151	0.534	0.133	0.427	0.133	0.342	0.162
	Right Tilted	0.272	0.382	0.726	0.152	0.543	0.175	0.542	0.134	0.433	0.134	0.370	0.176
	Left Cheek	0.370	0.479	1.052	0.220	0.787	0.220	1.015	0.248	0.787	0.248	0.489	0.232
	Left Tilted	0.166	0.407	0.774	0.162	0.578	0.187	0.878	0.219	0.702	0.219	0.421	0.200
All Bands(Ant 3)	Right Cheek	1.023	0.326	0.619	0.129	0.463	0.151	0.534	0.133	0.427	0.133	0.342	0.162
	Right Tilted	0.366	0.382	0.726	0.152	0.543	0.175	0.542	0.134	0.433	0.134	0.370	0.176
	Left Cheek	0.276	0.479	1.052	0.220	0.787	0.220	1.015	0.248	0.787	0.248	0.489	0.232
	Left Tilted	0.162	0.407	0.774	0.162	0.578	0.187	0.878	0.219	0.702	0.219	0.421	0.200
All Bands(Ant 4)	Right Cheek	1.078	0.326	0.619	0.129	0.463	0.151	0.534	0.133	0.427	0.133	0.342	0.162
	Right Tilted	1.055	0.382	0.726	0.152	0.543	0.175	0.542	0.134	0.433	0.134	0.370	0.176
	Left Cheek	0.647	0.479	1.052	0.220	0.787	0.220	1.015	0.248	0.787	0.248	0.489	0.232
	Left Tilted	0.685	0.407	0.774	0.162	0.578	0.187	0.878	0.219	0.702	0.219	0.421	0.200
All Bands(Ant 5)	Right Cheek	1.073	0.326	0.619	0.129	0.463	0.151	0.534	0.133	0.427	0.133	0.342	0.162
	Right Tilted	0.200	0.382	0.726	0.152	0.543	0.175	0.542	0.134	0.433	0.134	0.370	0.176
	Left Cheek	1.031	0.479	1.052	0.220	0.787	0.220	1.015	0.248	0.787	0.248	0.489	0.232
	Left Tilted	0.317	0.407	0.774	0.162	0.578	0.187	0.878	0.219	0.702	0.219	0.421	0.200
All Bands(Ant 6)	Right Cheek	0.594	0.326	0.619	0.129	0.463	0.151	0.534	0.133	0.427	0.133	0.342	0.162
	Right Tilted	0.797	0.382	0.726	0.152	0.543	0.175	0.542	0.134	0.433	0.134	0.370	0.176
	Left Cheek	0.755	0.479	1.052	0.220	0.787	0.220	1.015	0.248	0.787	0.248	0.489	0.232
	Left Tilted	1.068	0.407	0.774	0.162	0.578	0.187	0.878	0.219	0.702	0.219	0.421	0.200
All Bands(Ant 7)	Right Cheek	0.199	0.326	0.619	0.129	0.463	0.151	0.534	0.133	0.427	0.133	0.342	0.162
	Right Tilted	0.172	0.382	0.726	0.152	0.543	0.175	0.542	0.134	0.433	0.134	0.370	0.176
	Left Cheek	1.028	0.479	1.052	0.220	0.787	0.220	1.015	0.248	0.787	0.248	0.489	0.232
	Left Tilted	0.476	0.407	0.774	0.162	0.578	0.187	0.878	0.219	0.702	0.219	0.421	0.200
All Bands(Ant 8)	Right Cheek	1.059	0.326	0.619	0.129	0.463	0.151	0.534	0.133	0.427	0.133	0.342	0.162
	Right Tilted	0.656	0.382	0.726	0.152	0.543	0.175	0.542	0.134	0.433	0.134	0.370	0.176
	Left Cheek	0.237	0.479	1.052	0.220	0.787	0.220	1.015	0.248	0.787	0.248	0.489	0.232
	Left Tilted	0.234	0.407	0.774	0.162	0.578	0.187	0.878	0.219	0.702	0.219	0.421	0.200
All Bands(Ant 9)	Right Cheek	0.388	0.326	0.619	0.129	0.463	0.151	0.534	0.133	0.427	0.133	0.342	0.162
	Right Tilted	0.289	0.382	0.726	0.152	0.543	0.175	0.542	0.134	0.433	0.134	0.370	0.176
	Left Cheek	0.176	0.479	1.052	0.220	0.787	0.220	1.015	0.248	0.787	0.248	0.489	0.232
	Left Tilted	0.127	0.407	0.774	0.162	0.578	0.187	0.878	0.219	0.702	0.219	0.421	0.200



WWAN Band	Exposure Position	7+11	3+11	5+9	1+8+12	1+4+12	1+6+10	1+2
		Summed	Summed	Summed	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands(Ant 0)	Right Cheek	0.88	0.96	0.89	0.65	0.65	0.64	0.68
	Right Tilted	0.91	1.10	0.98	0.55	0.56	0.54	0.62
	Left Cheek	1.50	1.54	1.57	0.81	0.78	0.80	0.81
	Left Tilted	1.30	1.20	1.28	0.61	0.56	0.60	0.60
All Bands(Ant 1)	Right Cheek	0.88	0.96	0.89	0.87	0.86	0.85	0.90
	Right Tilted	0.91	1.10	0.98	0.41	0.43	0.41	0.48
	Left Cheek	1.50	1.54	1.57	1.56	1.54	1.55	1.56
	Left Tilted	1.30	1.20	1.28	0.57	0.51	0.56	0.56
All Bands(Ant 2)	Right Cheek	0.88	0.96	0.89	0.53	0.53	0.52	0.56
	Right Tilted	0.91	1.10	0.98	0.58	0.60	0.58	0.65
	Left Cheek	1.50	1.54	1.57	0.85	0.82	0.84	0.85
	Left Tilted	1.30	1.20	1.28	0.59	0.53	0.57	0.57
All Bands(Ant 3)	Right Cheek	0.88	0.96	0.89	1.32	1.31	1.31	1.35
	Right Tilted	0.91	1.10	0.98	0.68	0.69	0.68	0.75
	Left Cheek	1.50	1.54	1.57	0.76	0.73	0.74	0.76
	Left Tilted	1.30	1.20	1.28	0.58	0.52	0.57	0.57
All Bands(Ant 4)	Right Cheek	0.88	0.96	0.89	1.37	1.37	1.36	1.40
	Right Tilted	0.91	1.10	0.98	1.37	1.38	1.36	1.44
	Left Cheek	1.50	1.54	1.57	1.13	1.10	1.12	1.13
	Left Tilted	1.30	1.20	1.28	1.10	1.05	1.09	1.09
All Bands(Ant 5)	Right Cheek	0.88	0.96	0.89	1.37	1.36	1.36	1.40
	Right Tilted	0.91	1.10	0.98	0.51	0.53	0.51	0.58
	Left Cheek	1.50	1.54	1.57	1.51	1.48	1.50	1.51
	Left Tilted	1.30	1.20	1.28	0.74	0.68	0.72	0.72
All Bands(Ant 6)	Right Cheek	0.88	0.96	0.89	0.89	0.89	0.88	0.92
	Right Tilted	0.91	1.10	0.98	1.11	1.13	1.11	1.18
	Left Cheek	1.50	1.54	1.57	1.24	1.21	1.22	1.23
	Left Tilted	1.30	1.20	1.28	1.49	1.43	1.47	1.48
All Bands(Ant 7)	Right Cheek	0.88	0.96	0.89	0.49	0.49	0.48	0.53
	Right Tilted	0.91	1.10	0.98	0.48	0.50	0.48	0.55
	Left Cheek	1.50	1.54	1.57	1.51	1.48	1.50	1.51
	Left Tilted	1.30	1.20	1.28	0.90	0.84	0.88	0.88
All Bands(Ant 8)	Right Cheek	0.88	0.96	0.89	1.35	1.35	1.34	1.39
	Right Tilted	0.91	1.10	0.98	0.97	0.98	0.97	1.04
	Left Cheek	1.50	1.54	1.57	0.72	0.69	0.71	0.72
	Left Tilted	1.30	1.20	1.28	0.65	0.60	0.64	0.64
All Bands(Ant 9)	Right Cheek	0.88	0.96	0.89	0.68	0.68	0.67	0.71
	Right Tilted	0.91	1.10	0.98	0.60	0.62	0.60	0.67
	Left Cheek	1.50	1.54	1.57	0.66	0.63	0.64	0.66
	Left Tilted	1.30	1.20	1.28	0.55	0.49	0.53	0.53



17.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12
		WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 17+7 (WWAN+non DBS) 1g SAR (W/kg)	WLAN2.4GHz Ant 7 (non DBS) 1g SAR (W/kg)	WLAN2.4GHz Ant 7 (WWAN+non DBS) 1g SAR (W/kg)	WLAN2.4GHz Ant 17 (DBS only) 1g SAR (W/kg)	WLAN2.4GHz Ant 17 (WWAN+DBS) 1g SAR (W/kg)	WLAN5GHz Ant 18+19 (Standalone) 1g SAR (W/kg)	WLAN5GHz Ant 18+19 (WWAN+ non DBS) 1g SAR (W/kg)	WLAN5GHz Ant 18+19 (DBS only) 1g SAR (W/kg)	WLAN5GHz Ant 19 (WWAN+DBS) 1g SAR (W/kg)	Bluetooth Ant 17 (Standalone) 1g SAR (W/kg)	Bluetooth Ant 17 (WWAN+non DBS) 1g SAR (W/kg)
All Bands(Ant 0)	Front	0.331	0.279	0.260	0.181	0.443	0.133	0.363	0.119	0.351	0.119	0.175	0.066
	Back	0.424	0.487	0.287	0.200	0.777	0.233	0.599	0.194	0.570	0.194	0.305	0.115
	Left side		0.038			0.061	0.018	0.135	0.041	0.122	0.041	0.006	0.003
	Right side	0.466	0.105	0.350	0.244	0.166	0.050	0.692	0.236	0.692	0.236	0.004	0.001
	Top side		0.431	0.123	0.086	0.688	0.207	1.017	0.245	0.783	0.245	0.254	0.096
	Bottom side	0.305											
All Bands(Ant 1)	Front	0.562	0.279	0.260	0.181	0.443	0.133	0.363	0.119	0.351	0.119	0.175	0.066
	Back	0.909	0.487	0.287	0.200	0.777	0.233	0.599	0.194	0.570	0.194	0.305	0.115
	Left side	0.957	0.038			0.061	0.018	0.135	0.041	0.122	0.041	0.006	0.003
	Right side		0.105	0.350	0.244	0.166	0.050	0.692	0.236	0.692	0.236	0.004	0.001
	Top side		0.431	0.123	0.086	0.688	0.207	1.017	0.245	0.783	0.245	0.254	0.096
	Bottom side												
All Bands(Ant 2)	Front	0.531	0.279	0.260	0.181	0.443	0.133	0.363	0.119	0.351	0.119	0.175	0.066
	Back	0.706	0.487	0.287	0.200	0.777	0.233	0.599	0.194	0.570	0.194	0.305	0.115
	Left side	0.180	0.038			0.061	0.018	0.135	0.041	0.122	0.041	0.006	0.003
	Right side		0.105	0.350	0.244	0.166	0.050	0.692	0.236	0.692	0.236	0.004	0.001
	Top side		0.431	0.123	0.086	0.688	0.207	1.017	0.245	0.783	0.245	0.254	0.096
	Bottom side	1.031											
All Bands(Ant 3)	Front	0.221	0.279	0.260	0.181	0.443	0.133	0.363	0.119	0.351	0.119	0.175	0.066
	Back	0.396	0.487	0.287	0.200	0.777	0.233	0.599	0.194	0.570	0.194	0.305	0.115
	Left side	0.403	0.038			0.061	0.018	0.135	0.041	0.122	0.041	0.006	0.003
	Right side		0.105	0.350	0.244	0.166	0.050	0.692	0.236	0.692	0.236	0.004	0.001
	Top side	0.135	0.431	0.123	0.086	0.688	0.207	1.017	0.245	0.783	0.245	0.254	0.096
	Bottom side												
All Bands(Ant 4)	Front	0.205	0.279	0.260	0.181	0.443	0.133	0.363	0.119	0.351	0.119	0.175	0.066
	Back	0.338	0.487	0.287	0.200	0.777	0.233	0.599	0.194	0.570	0.194	0.305	0.115
	Left side	0.162	0.038			0.061	0.018	0.135	0.041	0.122	0.041	0.006	0.003
	Right side		0.105	0.350	0.244	0.166	0.050	0.692	0.236	0.692	0.236	0.004	0.001
	Top side	0.374	0.431	0.123	0.086	0.688	0.207	1.017	0.245	0.783	0.245	0.254	0.096
	Bottom side												
All Bands(Ant 5)	Front	0.310	0.279	0.260	0.181	0.443	0.133	0.363	0.119	0.351	0.119	0.175	0.066
	Back	0.520	0.487	0.287	0.200	0.777	0.233	0.599	0.194	0.570	0.194	0.305	0.115
	Left side		0.038			0.061	0.018	0.135	0.041	0.122	0.041	0.006	0.003
	Right side	0.744	0.105	0.350	0.244	0.166	0.050	0.692	0.236	0.692	0.236	0.004	0.001
	Top side		0.431	0.123	0.086	0.688	0.207	1.017	0.245	0.783	0.245	0.254	0.096
	Bottom side												
All Bands(Ant 6)	Front	0.136	0.279	0.260	0.181	0.443	0.133	0.363	0.119	0.351	0.119	0.175	0.066
	Back	0.290	0.487	0.287	0.200	0.777	0.233	0.599	0.194	0.570	0.194	0.305	0.115
	Left side		0.038			0.061	0.018	0.135	0.041	0.122	0.041	0.006	0.003
	Right side	0.078	0.105	0.350	0.244	0.166	0.050	0.692	0.236	0.692	0.236	0.004	0.001
	Top side	0.531	0.431	0.123	0.086	0.688	0.207	1.017	0.245	0.783	0.245	0.254	0.096
	Bottom side												
All Bands(Ant 7)	Front	0.146	0.279	0.260	0.181	0.443	0.133	0.363	0.119	0.351	0.119	0.175	0.066
	Back	0.288	0.487	0.287	0.200	0.777	0.233	0.599	0.194	0.570	0.194	0.305	0.115
	Left side		0.038			0.061	0.018	0.135	0.041	0.122	0.041	0.006	0.003
	Right side	0.406	0.105	0.350	0.244	0.166	0.050	0.692	0.236	0.692	0.236	0.004	0.001
	Top side	0.127	0.431	0.123	0.086	0.688	0.207	1.017	0.245	0.783	0.245	0.254	0.096



	Bottom side												
All Bands(Ant 8)	Front	0.195	0.279	0.260	0.181	0.443	0.133	0.363	0.119	0.351	0.119	0.175	0.066
	Back	0.447	0.487	0.287	0.200	0.777	0.233	0.599	0.194	0.570	0.194	0.305	0.115
	Left side	0.559	0.038			0.061	0.018	0.135	0.041	0.122	0.041	0.006	0.003
	Right side		0.105	0.350	0.244	0.166	0.050	0.692	0.236	0.692	0.236	0.004	0.001
	Top side	0.215	0.431	0.123	0.086	0.688	0.207	1.017	0.245	0.783	0.245	0.254	0.096
	Bottom side												
All Bands(Ant 9)	Front	0.098	0.279	0.260	0.181	0.443	0.133	0.363	0.119	0.351	0.119	0.175	0.066
	Back	0.976	0.487	0.287	0.200	0.777	0.233	0.599	0.194	0.570	0.194	0.305	0.115
	Left side	0.224	0.038			0.061	0.018	0.135	0.041	0.122	0.041	0.006	0.003
	Right side		0.105	0.350	0.244	0.166	0.050	0.692	0.236	0.692	0.236	0.004	0.001
	Top side	0.079	0.431	0.123	0.086	0.688	0.207	1.017	0.245	0.783	0.245	0.254	0.096
	Bottom side												

WWAN Band	Exposure Position	7+11	3+11	5+9	1+8+12	1+4+12	1+6+10	1+2
		Summed	Summed	Summed	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands(Ant 0)	Front	0.54	0.44	0.79	0.52	0.58	0.58	0.61
	Back	0.90	0.59	1.35	0.73	0.74	0.85	0.91
	Left side	0.14	0.01	0.18	0.04	0.00	0.06	0.04
	Right side	0.70	0.35	0.86	0.70	0.71	0.75	0.57
	Top side	1.27	0.38	1.47	0.34	0.18	0.45	0.43
	Bottom side	0.00	0.00	0.00	0.31	0.31	0.31	0.31
All Bands(Ant 1)	Front	0.54	0.44	0.79	0.75	0.81	0.81	0.84
	Back	0.90	0.59	1.35	1.22	1.22	1.34	1.40
	Left side	0.14	0.01	0.18	1.00	0.96	1.02	1.00
	Right side	0.70	0.35	0.86	0.24	0.25	0.29	0.11
	Top side	1.27	0.38	1.47	0.34	0.18	0.45	0.43
	Bottom side	0.00	0.00	0.00	0.00	0.00	0.00	0.00
All Bands(Ant 2)	Front	0.54	0.44	0.79	0.72	0.78	0.78	0.81
	Back	0.90	0.59	1.35	1.02	1.02	1.13	1.19
	Left side	0.14	0.01	0.18	0.22	0.18	0.24	0.22
	Right side	0.70	0.35	0.86	0.24	0.25	0.29	0.11
	Top side	1.27	0.38	1.47	0.34	0.18	0.45	0.43
	Bottom side	0.00	0.00	0.00	1.03	1.03	1.03	1.03
All Bands(Ant 3)	Front	0.54	0.44	0.79	0.41	0.47	0.47	0.50
	Back	0.90	0.59	1.35	0.71	0.71	0.82	0.88
	Left side	0.14	0.01	0.18	0.45	0.41	0.46	0.44
	Right side	0.70	0.35	0.86	0.24	0.25	0.29	0.11
	Top side	1.27	0.38	1.47	0.48	0.32	0.59	0.57
	Bottom side	0.00	0.00	0.00	0.00	0.00	0.00	0.00
All Bands(Ant 4)	Front	0.54	0.44	0.79	0.39	0.45	0.46	0.48
	Back	0.90	0.59	1.35	0.65	0.65	0.77	0.83
	Left side	0.14	0.01	0.18	0.21	0.17	0.22	0.20
	Right side	0.70	0.35	0.86	0.24	0.25	0.29	0.11
	Top side	1.27	0.38	1.47	0.72	0.56	0.83	0.81
	Bottom side	0.00	0.00	0.00	0.00	0.00	0.00	0.00
All Bands(Ant 5)	Front	0.54	0.44	0.79	0.50	0.56	0.56	0.59
	Back	0.90	0.59	1.35	0.83	0.84	0.95	1.01
	Left side	0.14	0.01	0.18	0.04	0.00	0.06	0.04
	Right side	0.70	0.35	0.86	0.98	0.99	1.03	0.85
	Top side	1.27	0.38	1.47	0.34	0.18	0.45	0.43
	Bottom side	0.00	0.00	0.00	0.00	0.00	0.00	0.00
All Bands(Ant 6)	Front	0.54	0.44	0.79	0.32	0.38	0.39	0.42
	Back	0.90	0.59	1.35	0.60	0.61	0.72	0.78
	Left side	0.14	0.01	0.18	0.04	0.00	0.06	0.04

	Right side	0.70	0.35	0.86	0.32	0.32	0.36	0.18
	Top side	1.27	0.38	1.47	0.87	0.71	0.98	0.96
	Bottom side	0.00	0.00	0.00	0.00	0.00	0.00	0.00
All Bands(Ant 7)	Front	0.54	0.44	0.79	0.33	0.39	0.40	0.43
	Back	0.90	0.59	1.35	0.60	0.60	0.72	0.78
	Left side	0.14	0.01	0.18	0.04	0.00	0.06	0.04
	Right side	0.70	0.35	0.86	0.64	0.65	0.69	0.51
	Top side	1.27	0.38	1.47	0.47	0.31	0.58	0.56
	Bottom side	0.00	0.00	0.00	0.00	0.00	0.00	0.00
All Bands(Ant 8)	Front	0.54	0.44	0.79	0.38	0.44	0.45	0.47
	Back	0.90	0.59	1.35	0.76	0.76	0.87	0.93
	Left side	0.14	0.01	0.18	0.60	0.56	0.62	0.60
	Right side	0.70	0.35	0.86	0.24	0.25	0.29	0.11
	Top side	1.27	0.38	1.47	0.56	0.40	0.67	0.65
	Bottom side	0.00	0.00	0.00	0.00	0.00	0.00	0.00
All Bands(Ant 9)	Front	0.54	0.44	0.79	0.28	0.35	0.35	0.38
	Back	0.90	0.59	1.35	1.29	1.29	1.40	1.46
	Left side	0.14	0.01	0.18	0.27	0.23	0.28	0.26
	Right side	0.70	0.35	0.86	0.24	0.25	0.29	0.11
	Top side	1.27	0.38	1.47	0.42	0.26	0.53	0.51
	Bottom side	0.00	0.00	0.00	0.00	0.00	0.00	0.00

17.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12
		WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 17+7 (WWAN+non DBS) 1g SAR (W/kg)	WLAN2.4GHz Ant 7 (non DBS) 1g SAR (W/kg)	WLAN2.4GHz Ant 7 (WWAN+non DBS) 1g SAR (W/kg)	WLAN2.4GHz Ant 17 (DBS only) 1g SAR (W/kg)	WLAN2.4GHz Ant 17 (WWAN+DBS) 1g SAR (W/kg)	WLAN5GHz Ant 18+19 (Standalone) 1g SAR (W/kg)	WLAN5GHz Ant 18+19 (WWAN+non DBS) 1g SAR (W/kg)	WLAN5GHz Ant 18+19 (DBS only) 1g SAR (W/kg)	WLAN5GHz Ant 19 (WWAN+DBS) 1g SAR (W/kg)	Bluetooth Ant 17 (Standalone) 1g SAR (W/kg)	Bluetooth Ant 17 (WWAN+non DBS) 1g SAR (W/kg)
All Bands(Ant 0)	Front	0.271	0.224	0.102	0.102	0.224	0.142	0.355	0.181	0.355	0.181	0.081	0.081
	Back	0.315	0.370	0.168	0.168	0.370	0.233	0.529	0.242	0.529	0.242	0.145	0.145
All Bands(Ant 1)	Front	0.483	0.224	0.102	0.102	0.224	0.142	0.355	0.181	0.355	0.181	0.081	0.081
	Back	0.551	0.370	0.168	0.168	0.370	0.233	0.529	0.242	0.529	0.242	0.145	0.145
All Bands(Ant 2)	Front	0.439	0.224	0.102	0.102	0.224	0.142	0.355	0.181	0.355	0.181	0.081	0.081
	Back	0.575	0.370	0.168	0.168	0.370	0.233	0.529	0.242	0.529	0.242	0.145	0.145
All Bands(Ant 3)	Front	0.173	0.224	0.102	0.102	0.224	0.142	0.355	0.181	0.355	0.181	0.081	0.081
	Back	0.307	0.370	0.168	0.168	0.370	0.233	0.529	0.242	0.529	0.242	0.145	0.145
All Bands(Ant 4)	Front	0.693	0.224	0.102	0.102	0.224	0.142	0.355	0.181	0.355	0.181	0.081	0.081
	Back	0.916	0.370	0.168	0.168	0.370	0.233	0.529	0.242	0.529	0.242	0.145	0.145
All Bands(Ant 5)	Front	0.212	0.224	0.102	0.102	0.224	0.142	0.355	0.181	0.355	0.181	0.081	0.081
	Back	0.323	0.370	0.168	0.168	0.370	0.233	0.529	0.242	0.529	0.242	0.145	0.145
All Bands(Ant 6)	Front	0.409	0.224	0.102	0.102	0.224	0.142	0.355	0.181	0.355	0.181	0.081	0.081
	Back	0.968	0.370	0.168	0.168	0.370	0.233	0.529	0.242	0.529	0.242	0.145	0.145
All Bands(Ant 7)	Front	0.520	0.224	0.102	0.102	0.224	0.142	0.355	0.181	0.355	0.181	0.081	0.081
	Back	1.048	0.370	0.168	0.168	0.370	0.233	0.529	0.242	0.529	0.242	0.145	0.145
All Bands(Ant 8)	Front	0.198	0.224	0.102	0.102	0.224	0.142	0.355	0.181	0.355	0.181	0.081	0.081
	Back	0.859	0.370	0.168	0.168	0.370	0.233	0.529	0.242	0.529	0.242	0.145	0.145
All Bands(Ant 9)	Front	0.066	0.224	0.102	0.102	0.224	0.142	0.355	0.181	0.355	0.181	0.081	0.081
	Back	0.435	0.370	0.168	0.168	0.370	0.233	0.529	0.242	0.529	0.242	0.145	0.145

WWAN Band	Exposure Position	7+11	3+11	5+9	1+8+12	1+4+12	1+6+10	1+2
		Summed	Summed	Summed	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands(Ant 0)	Front	0.44	0.18	0.58	0.53	0.45	0.59	0.50
	Back	0.67	0.31	0.90	0.70	0.63	0.79	0.69
All Bands(Ant 1)	Front	0.44	0.18	0.58	0.75	0.67	0.81	0.71
	Back	0.67	0.31	0.90	0.94	0.86	1.03	0.92
All Bands(Ant 2)	Front	0.44	0.18	0.58	0.70	0.62	0.76	0.66
	Back	0.67	0.31	0.90	0.96	0.89	1.05	0.95
All Bands(Ant 3)	Front	0.44	0.18	0.58	0.44	0.36	0.50	0.40
	Back	0.67	0.31	0.90	0.69	0.62	0.78	0.68
All Bands(Ant 4)	Front	0.44	0.18	0.58	0.96	0.88	1.02	0.92
	Back	0.67	0.31	0.90	1.30	1.23	1.39	1.29
All Bands(Ant 5)	Front	0.44	0.18	0.58	0.47	0.40	0.54	0.44
	Back	0.67	0.31	0.90	0.71	0.64	0.80	0.69
All Bands(Ant 6)	Front	0.44	0.18	0.58	0.67	0.59	0.73	0.63
	Back	0.67	0.31	0.90	1.36	1.28	1.44	1.34
All Bands(Ant 7)	Front	0.44	0.18	0.58	0.78	0.70	0.84	0.74
	Back	0.67	0.31	0.90	1.44	1.36	1.52	1.42
All Bands(Ant 8)	Front	0.44	0.18	0.58	0.46	0.38	0.52	0.42
	Back	0.67	0.31	0.90	1.25	1.17	1.33	1.23
All Bands(Ant 9)	Front	0.44	0.18	0.58	0.33	0.25	0.39	0.29
	Back	0.67	0.31	0.90	0.82	0.75	0.91	0.81



17.5 Product specific 10g SAR Exposure Conditions

Remark:

- For WLAN2.4GHz/ Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	2+5+8	1+4+8	1+7+8	1+3+6+8
		WWAN	WLAN2.4GHz Ant 17 (DBS only)	WLAN2.4GHz Ant 17 (WWAN+DBS)	WLAN2.4GHz Ant 17+7 (WWAN+non DBS)	WLAN5GHz Ant 19 (DBS only)	WLAN5GHz Ant 19 (WWAN+DBS)	WLAN5GHz Ant 18+19 (WWAN+non DBS)	NFC	Summed	Summed	Summed	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
GSM850 Ant 1	Front					1.054	1.054	1.054	0.001	1.06	0.00	1.06	1.06
	Back		1.322	0.567	1.322	0.776	0.776	0.776	0.041	2.14	1.36	0.82	1.38
	Left side	2.042				0.074	0.074	0.074	0.001	0.08	2.04	2.12	2.12
	Right side					1.137	1.137	1.137	0.001	1.14	0.00	1.14	1.14
	Top side		1.573	0.682	1.573	2.212	2.525	2.525	0.001	3.79	1.57	2.53	3.21
	Bottom side								0.001	0.00	0.00	0.00	0.00
LTE Band 2 Ant 2	Front					1.054	1.054	1.054	0.001	1.06	0.00	1.06	1.06
	Back		1.322	0.567	1.322	0.776	0.776	0.776	0.041	2.14	1.36	0.82	1.38
	Left side					0.074	0.074	0.074	0.001	0.08	0.00	0.08	0.08
	Right side					1.137	1.137	1.137	0.001	1.14	0.00	1.14	1.14
	Top side		1.573	0.682	1.573	2.212	2.525	2.525	0.001	3.79	1.57	2.53	3.21
	Bottom side	2.368							0.001	0.00	2.37	2.37	2.37
FR1 n2 Ant 2	Front					1.054	1.054	1.054	0.001	1.06	0.00	1.06	1.06
	Back		1.322	0.567	1.322	0.776	0.776	0.776	0.041	2.14	1.36	0.82	1.38
	Left side					0.074	0.074	0.074	0.001	0.08	0.00	0.08	0.08
	Right side					1.137	1.137	1.137	0.001	1.14	0.00	1.14	1.14
	Top side		1.573	0.682	1.573	2.212	2.525	2.525	0.001	3.79	1.57	2.53	3.21
	Bottom side	2.531							0.001	0.00	2.53	2.53	2.53
FR1 n2 Ant 3	Front					1.054	1.054	1.054	0.001	1.06	0.00	1.06	1.06
	Back	1.161	1.322	0.567	1.322	0.776	0.776	0.776	0.041	2.14	2.52	1.98	2.55
	Left side	2.440				0.074	0.074	0.074	0.001	0.08	2.44	2.52	2.52
	Right side					1.137	1.137	1.137	0.001	1.14	0.00	1.14	1.14
	Top side		1.573	0.682	1.573	2.212	2.525	2.525	0.001	3.79	1.57	2.53	3.21
	Bottom side								0.001	0.00	0.00	0.00	0.00
FR1 n66 Ant 5	Front					1.054	1.054	1.054	0.001	1.06	0.00	1.06	1.06
	Back		1.322	0.567	1.322	0.776	0.776	0.776	0.041	2.14	1.36	0.82	1.38
	Left side					0.074	0.074	0.074	0.001	0.08	0.00	0.08	0.08
	Right side	2.525				1.137	1.137	1.137	0.001	1.14	2.53	3.66	3.66
	Top side		1.573	0.682	1.573	2.212	2.525	2.525	0.001	3.79	1.57	2.53	3.21
	Bottom side								0.001	0.00	0.00	0.00	0.00
FR1 n48 Ant 9	Front					1.054	1.054	1.054	0.001	1.06	0.00	1.06	1.06
	Back	1.641	1.322	0.567	1.322	0.776	0.776	0.776	0.041	2.14	3.00	2.46	3.03
	Left side					0.074	0.074	0.074	0.001	0.08	0.00	0.08	0.08
	Right side					1.137	1.137	1.137	0.001	1.14	0.00	1.14	1.14
	Top side		1.573	0.682	1.573	2.212	2.525	2.525	0.001	3.79	1.57	2.53	3.21
	Bottom side								0.001	0.00	0.00	0.00	0.00

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

18. Uncertainty Assessment

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

19. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [9] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [14] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015

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