

FCC SAR Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : Xiaomi
MODEL NAME : 2506BPN68G
FCC ID : 2AFZZPN68G
STANDARD : FCC 47 CFR Part 2 (2.1093)

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

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



Approved by: Si Zhang

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Xiaomi Communications Co., Ltd., Mobile Phone, 2506BPN68G**, are as follows.

Highest 1g SAR Summary							Highest Total Exposure Ratio (Ratio ≤ 1.0)
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)	
			1g SAR (W/kg)				
Licensed	GSM	GSM850	0.91	0.64	1.05	1.59	0.994
		GSM1900	1.06	0.44	1.06		
	WCDMA	WCDMA II	1.05	0.55	1.04		
		WCDMA IV	1.03	0.42	1.02		
		WCDMA V	0.91	0.68	1.00		
	LTE	LTE Band 2	0.97	0.77	1.08		
		LTE Band 4	1.06	0.61	1.08		
		LTE Band 5	0.99	0.77	1.04		
		LTE Band 7	1.03	0.57	1.09		
		LTE Band 12	0.94	0.62	0.96		
		LTE Band 13	0.88	0.47	1.04		
		LTE Band 17	0.95	0.63	0.98		
		LTE Band 25	1.07	0.88	1.09		
		LTE Band 26	1.01	0.69	1.01		
		LTE Band 66	0.92	0.61	1.09		
		LTE Band 71	1.00	0.64	0.86		
		LTE Band 38	1.07	0.64	1.06		
		LTE Band 41	1.00	0.63	1.09		
		LTE Band 42	1.02	0.68	1.06		
		LTE Band 48	1.01	0.41	1.09		
	5G NR	FR1 n2	1.09	0.88	1.09		
		FR1 n5	1.02	0.67	0.95		
		FR1 n7	1.08	0.64	1.09		
		FR1 n12	0.92	0.95	1.01		
		FR1 n25	1.09	0.85	1.09		
		FR1 n26	1.05	0.73	1.02		
		FR1 n66	1.06	0.67	1.04		
		FR1 n71	1.03	0.69	0.97		
		FR1 n38	1.07	0.65	1.09		
		FR1 n41	1.09	0.59	1.05		
FR1 n48	1.07	0.30	0.97				
FR1 n77	1.07	0.49	1.09				
FR1 n78	1.09	0.61	1.09				
DTS	WLAN	2.4GHz WLAN	1.04	0.72	1.08	1.59	
NII		5GHz WLAN	1.07	0.52	1.07	1.59	
DSS	Bluetooth	2.4GHz Bluetooth	1.07	0.48	0.87	1.59	
Highest 10g SAR Summary							Highest Total Exposure Ratio (Ratio ≤ 1.0)
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)		Highest Simultaneous Transmission 10g SAR (W/kg)		
DTS	WLAN	2.4GHz WLAN	2.20		3.52	0.880	
NII		5GHz WLAN	2.49		3.52		
Date of Testing:			2025/5/7~ 2025/5/31				

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.
	SAR02-KS SAR03-KS SAR04-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	Xiaomi
Model Name	2506BPN68G
FCC ID	2AFZZPN68G
IMEI Code	864724070058128/864724070058136, 864724070058763/864724070058771, 864724070060462/864724070060470, 864724070061361/864724070061379, 864724070061924/864724070061932, 864724070060108/864724070060116,
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz WLAN 6GHz U-NII 5: 5925 MHz ~ 6425 MHz WLAN 6GHz U-NII 6: 6425 MHz ~ 6525 MHz WLAN 6GHz U-NII 7: 6525 MHz ~ 6875 MHz WLAN 6GHz U-NII 8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz WPT: 114 kHz~ 146 kHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA



	DC-HSDPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20 WLAN 2.4GHz 802.11ac VHT20 WLAN 2.4GHz 802.11ax/be HE20/EHT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 5GHz 802.11be EHT20/EHT40/EHT80/EHT160 WLAN 6GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11be EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE NFC: ASK WPT: ASK
HW Version	1351P2404
SW Version	Xiaomi HyperOS 2.0
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype

Remark:

1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). WLAN6GHz has no hotspot function.
4. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO/MIMO antenna mode. 802.11b/g supports SISO mode for 2.4GHz WLAN
5. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
6. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active).
7. The device implements proximity sensor/receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the MediaTek TA-SAR will manage to ensure the power level not exceeding the associated power table. Details about the 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 when transmit simultaneously with WWAN/BT, the device WLAN power will be reduced power at head, body-worn, hotspot and extremity conditions.
9. For BT when transmit simultaneously with WWAN/WLAN, the device BT power will be reduced power at head, body-worn, hotspot and extremity conditions.
10. This device supports HPUE mode for 5GNR n41/n77/n78 with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so power class 3 was chosen to perform full SAR testing and power class 2 verified the worst case of power class 3 SAR.
11. For 5GNR n41/n77/n78 HPUE, 5GNR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands, using FTM to perform SAR with default 100% transmission.
12. Bluetooth BR/EDR supports Beamforming mode, and BLE don't supports Beamforming mode.
13. The device support DBS (Dual Band Simultaneous) function, when the device WLAN 2.4GHz and WLAN 5GHz (or WLAN 6GHz) transmit at the same time the device will limit different output power for simultaneous transmission compliance.
14. There are three samples. The difference between them is memory/storage capacity: sample 1 is 12+256G memory, sample 2 is 12+512G memory and sample 3 is 12+1T memory. 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. SAR and Power density test report for WLAN 6GHz U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth always chose higher SAR of WLAN5GHz U-NII-1/2A/2C/3 and WLAN 6GHz U-NII-5/6/7/8.
17. RF exposure report for WPC (Wireless power charging) will be separately submitted.
18. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.



<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
	n66	FDD	15	5, 10, 15, 20, 25, 30, 40
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 30, 40,50, 60, 80, 90,100
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
SA	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
	n26	FDD	15	5, 10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 25, 30, 40
	n71	FDD	15	5, 10, 15, 20
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 30, 40,50, 60, 80, 90,100
	n48	TDD	30	10, 15, 20, 40
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100

4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																															
FCC ID	2AFZZPN68G																																																														
Equipment Name	Mobile Phone																																																														
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																														
Channel Bandwidth	LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																														
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																														
LTE Voice / Data requirements	Voice and Data																																																														
LTE Release Version	R16																																																														
CA Support	Supported, Uplink and Downlink																																																														
LTE MPR permanently built-in by design	<p>Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</p> <table border="1"> <thead> <tr> <th rowspan="2">Modulation</th> <th colspan="6">Channel bandwidth / Transmission bandwidth (N_{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> </thead> <tbody> <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> </tbody> </table>	Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
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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 and Inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 3 carriers in the downlink and 2 carriers in the uplink.																																																														



Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 10 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782		23230		782	
M	23230		782									
H	23255		784.5									
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 10 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23755		706.5		23780		709		23780		709	
M	23790		710		23790		710		23790		710	
H	23825		713.5		23800		711		23800		711	
LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5	26765	821.5
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5	26965	841.5



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

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

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

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

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

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



4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz
Channel Bandwidth	The detail please refers to section 4.1 5G NR 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 n5	LTE B7
LTE Anchor Bands for n7	LTE B2/4/5/66
LTE Anchor Bands for n66	LTE B2/4/5/7/66
LTE Anchor Bands for n38	LTE B2/4/5/66
LTE Anchor Bands for n41	LTE B2/4/5/66
LTE Anchor Bands for n77	LTE B2
LTE Anchor Bands for n78	LTE B2/4/5/7/26/38/41/66

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

NR Band 2								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900

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

NR Band 7																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520	505000	2525
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550	509000	2545

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

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



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

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

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

NR Band 38												
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)										
L	515000	2575	515500	2577.5	516000	2580	516500	2582.5	517000	2585	518000	2590
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	523000	2615	522500	2612.5	522000	2610	521500	2607.5	521000	2605	5120000	2600

NR Band 41																				
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)																
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	529998	2649.99	528996	2644.98	528000	2640

NR Band 48								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)						
L	637000	3555	637168	3557.52	637334	3560.01	638000	3570
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99
H	646332	3694.98	646166	3692.49	646000	3690	645332	3679.98

NR Band 77																								
	Bandwidth 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)																				
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840.00	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664834	3972.51	664668	3970.02	664500	3967.50	664334	3965.01	664000	3960	663668	3955.02	663334	3950.01	663000	3945	662668	3940.02	662334	3935.01	662000	3930

NR Band 78																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)																				
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	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652834	3792.51	652668	3790.02	652500	3787.5	652334	3785.01	652000	3780	651668	3775.02	651334	3770.01	651000	3765	650668	3760.02	650334	3755.01	650000	3750



For <3450 MHz ~ 3550 MHz >

NR Band 77																								
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)																					
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

NR Band 78																								
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)																					
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

5. TA-SAR feature for RF Exposure compliance

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

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

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

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

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

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

<Terminologies in this report>

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

<SAR Characterization>

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

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

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

Antenna Group:

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



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

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

<Plimit for supported technologies and bands >

Band	Antenna	ECI 1 Receiver on	ECI3 sensor on	ECI4 sensor off	ECI5 Hotspot on	Pmax*	Total Uncertainty dB (k=2)
GSM850	Ant 0	29.40	24.00	24.00	26.70	24.0	1
GSM850	Ant 1	19.00	19.50	24.50	19.00	24.0	1.5
GSM1900	Ant 2	18.50	17.00	17.00	17.00	21.0	1.5
GSM1900	Ant 3	18.00	19.00	25.90	18.00	21.0	1
WCDMA II	Ant 2	18.50	17.50	17.50	17.50	24.0	1.5
WCDMA IV	Ant 2	18.50	17.00	17.00	17.00	24.0	1.5
WCDMA V	Ant 0	29.40	24.00	24.00	27.30	24.0	1
WCDMA II	Ant 3	17.50	19.00	27.20	17.50	24.0	1
WCDMA IV	Ant 3	16.50	19.00	26.30	16.50	24.0	1
WCDMA V	Ant 1	19.00	19.00	24.80	19.00	24.0	1.5
LTE Band 71	Ant 0	35.30	24.00	24.00	30.60	24.0	1
LTE Band 71	Ant 1	22.00	21.00	26.30	21.00	24.0	1.5
LTE Band 12	Ant 0	32.60	24.50	24.50	27.90	24.5	1
LTE Band 12	Ant 1	22.00	20.50	26.20	20.50	24.5	1.2
LTE Band 13	Ant 0	30.90	24.50	24.50	28.20	24.5	1
LTE Band 13	Ant 1	21.50	21.50	27.40	21.50	24.5	1.2
LTE Band 17	Ant 0	32.30	24.50	24.50	28.00	24.5	1
LTE Band 17	Ant 1	22.00	20.50	25.90	20.50	24.5	1.2
LTE Band 5	Ant 0	30.40	25.00	25.00	27.40	25.0	0.7
LTE Band 5 Other pa	Ant 0	30.40	25.00	25.00	27.70	25.0	0.7
LTE Band 5	Ant 1	20.00	20.00	25.40	20.00	25.0	0.7
LTE Band 5 Other pa	Ant 1	20.00	20.00	27.50	20.00	25.0	0.7
LTE Band 26	Ant 0	30.40	25.00	25.00	27.70	25.0	0.7
LTE Band 26	Ant 1	20.00	20.00	25.50	20.00	25.0	0.7
LTE Band 4	Ant 2	18.50	18.50	18.50	18.50	25.0	0.7
LTE Band 4 Other pa	Ant 2	18.50	18.50	18.50	18.50	25.0	0.7
LTE Band 4	Ant 3	17.50	20.50	28.60	17.50	25.0	0.7
LTE Band 4 Other pa	Ant 3	17.50	20.50	29.00	17.50	25.0	0.7
LTE Band 4	Ant 4	30.90	19.50	19.50	19.50	24.5	1.2
LTE Band 4 Other pa	Ant 4	30.90	19.50	19.50	19.50	24.5	1.2
LTE Band 4	Ant 5	17.50	19.00	27.30	17.50	24.0	1.5
LTE Band 4 Other pa	Ant 5	17.50	19.00	27.50	17.50	24.0	1.5
LTE Band 66	Ant 2	19.00	18.50	18.50	18.50	25.0	0.7
LTE Band 66 Other pa	Ant 2	19.00	18.50	18.50	18.50	25.0	0.7
LTE Band 66	Ant 3	17.00	20.00	27.90	17.00	25.0	0.7
LTE Band 66 Other pa	Ant 3	17.00	20.00	28.70	17.00	25.0	0.7
LTE Band 66	Ant 4	30.70	18.50	18.50	18.50	24.5	1.2
LTE Band 66 Other pa	Ant 4	31.00	18.50	18.50	18.50	24.5	1.2
LTE Band 66	Ant 5	17.00	18.50	26.80	17.00	24.0	1.5
LTE Band 66 Other pa	Ant 5	17.00	18.50	27.10	17.00	24.0	1.5
LTE Band 2	Ant 2	18.50	18.50	18.50	18.50	24.5	1
LTE Band 2 Other pa	Ant 2	18.50	18.50	18.50	18.50	24.5	1
LTE Band 2	Ant 3	16.50	19.50	27.70	16.50	24.5	1.2
LTE Band 2 Other pa	Ant 3	16.50	19.50	28.10	16.50	24.5	1.2
LTE Band 2	Ant 4	30.90	18.50	18.50	18.50	24.0	1.5
LTE Band 2 Other pa	Ant 4	32.30	18.50	18.50	18.50	24.0	1.5
LTE Band 2	Ant 5	17.00	18.50	26.10	17.00	23.0	1.5



LTE Band 2 Other pa	Ant 5	17.00	18.50	26.20	17.00	23.0	1.5
LTE Band 25	Ant 2	19.00	18.50	18.50	18.50	24.5	1
LTE Band 25	Ant 3	17.50	20.00	28.50	17.50	24.5	1.2
LTE Band 25	Ant 4	31.20	19.00	19.00	19.00	24.0	1.5
LTE Band 25	Ant 5	17.50	18.50	26.00	17.50	23.0	1.5
LTE Band 7	Ant 2	18.00	18.50	18.50	18.00	25.0	0.7
LTE Band 7	Ant 3	15.50	18.00	23.50	15.50	24.5	1.2
LTE Band 7	Ant 4	31.60	19.50	19.50	19.50	24.5	1.2
LTE Band 7	Ant 5	15.00	17.50	25.00	15.00	23.5	1.5
LTE Band 38	Ant 2	18.50	19.00	19.00	18.50	23.0	0.7
LTE Band 38	Ant 3	16.00	18.50	24.40	16.00	22.5	1.2
LTE Band 38	Ant 4	32.90	20.00	20.00	20.00	22.5	1.2
LTE Band 38	Ant 5	16.50	17.50	26.50	16.50	21.5	1.5
LTE Band 41	Ant 2	18.00	19.00	19.00	18.00	23.0	0.7
LTE Band 41	Ant 3	15.50	18.00	24.30	15.50	22.5	1.2
LTE Band 41	Ant 4	33.20	19.20	19.20	19.20	22.2	1.50
LTE Band 41	Ant 5	16.00	18.50	26.30	16.00	21.5	1.5
LTE Band 42	Ant 6	14.00	17.50	27.90	14.00	23.0	0.7
LTE Band 42	Ant 7	18.50	18.50	26.20	18.50	22.0	1.5
LTE Band 42	Ant 8	16.00	17.00	17.00	16.00	21.5	1.5
LTE Band 42	Ant 9	22.40	14.00	25.20	14.00	21.5	1.5
LTE Band 48	Ant 6	14.50	18.00	26.10	14.50	21.5	1
LTE Band 48	Ant 7	16.50	18.00	25.90	16.50	20.5	1.5
LTE Band 48	Ant 8	16.50	17.00	17.00	16.50	20.0	1.5
LTE Band 48	Ant 9	24.50	12.50	23.80	12.50	20.0	1.5
FR1 n71	Ant 0	34.10	24.00	24.00	31.10	24.0	1
FR1 n71	Ant 1	21.00	21.00	26.20	21.00	24.0	1.5
FR1 n12	Ant 0	32.60	24.50	24.50	29.20	24.5	1
FR1 n12	Ant 1	21.50	21.50	26.10	21.50	24.5	1.2
FR1 n5	Ant 0	30.50	25.00	25.00	28.20	25.0	0.7
FR1 n5 Other pa	Ant 0	30.40	25.00	25.00	28.10	25.0	0.7
FR1 n5	Ant 1	21.00	20.00	26.20	20.00	25.0	0.7
FR1 n5 Other pa	Ant 1	21.00	20.00	26.10	20.00	25.0	0.7
FR1 n26	Ant 0	30.40	25.00	25.00	29.40	25.0	0.7
FR1 n26	Ant 1	21.50	21.00	26.20	21.00	25.0	0.7
FR1 n66	Ant 2	19.00	18.50	18.50	18.50	25.0	0.7
FR1 n66 Other pa	Ant 2	19.00	18.50	18.50	18.50	25.0	0.7
FR1 n66	Ant 3	17.00	20.50	28.10	17.00	25.0	0.7
FR1 n66 Other pa	Ant 3	17.00	20.50	28.60	17.00	25.0	0.7
FR1 n66	Ant 4	30.80	19.00	19.00	19.00	24.5	1.2
FR1 n66 Other pa	Ant 4	30.80	19.00	19.00	19.00	24.5	1.2
FR1 n66	Ant 5	17.00	19.50	26.50	17.00	24.0	1.5
FR1 n66 Other pa	Ant 5	17.00	19.50	27.10	17.00	24.0	1.5
FR1 n2	Ant 2	18.50	17.50	17.50	17.50	24.5	1
FR1 n2	Ant 3	17.00	18.50	26.20	17.00	24.5	1.2
FR1 n2	Ant 4	31.60	19.00	19.00	19.00	24.0	1.5
FR1 n2	Ant 5	17.50	19.00	25.90	17.50	23.5	1.5
FR1 n25	Ant 2	19.00	18.00	18.00	18.00	24.5	1
FR1 n25	Ant 3	17.00	19.00	27.20	17.00	24.5	1.2
FR1 n25	Ant 4	31.90	19.50	19.50	19.50	24.0	1.5
FR1 n25	Ant 5	18.00	19.00	25.70	18.00	23.5	1.5
FR1 n7	Ant 2	18.00	19.00	19.00	18.00	25.0	0.7
FR1 n7	Ant 3	16.50	19.50	24.00	16.50	25.0	0.7
FR1 n7	Ant 4	30.90	20.50	20.50	20.50	24.5	1.2
FR1 n7	Ant 5	16.00	18.50	25.80	16.00	24.0	1.5
FR1 n38	Ant 2	17.50	18.50	18.50	17.50	25.0	0.7

FR1 n38	Ant 3	16.00	17.00	23.00	16.00	24.5	1.2
FR1 n38	Ant 4	30.40	19.00	19.00	19.00	24.5	1.2
FR1 n38	Ant 5	16.50	18.50	26.30	16.50	24.0	1.5
FR1 n41	Ant 2	16.50	18.00	18.00	16.50	23.5	1
FR1 n41 pc2	Ant 2	16.50	18.00	18.00	16.50	23.5	1
FR1 n41	Ant 3	15.50	16.50	23.20	15.50	23.0	1.5
FR1 n41 pc2	Ant 3	15.50	16.50	23.20	15.50	23.0	1.5
FR1 n41	Ant 4	30.20	18.50	18.50	18.50	23.0	1.5
FR1 n41 pc2	Ant 4	30.20	18.50	18.50	18.50	23.0	1.5
FR1 n41	Ant 5	16.00	18.50	26.10	16.00	22.5	1.5
FR1 n41 pc2	Ant 5	16.00	18.50	26.10	16.00	22.5	1.5
FR1 n48	Ant 6	13.50	16.50	25.50	13.50	23.5	1
FR1 n48	Ant 7	17.00	17.00	24.20	17.00	22.5	1.5
FR1 n48	Ant 8	14.50	17.00	17.00	14.50	22.0	1.5
FR1 n48	Ant 9	24.80	12.00	21.50	12.00	22.0	1.5
FR1 n77	Ant 6	12.50	15.50	24.60	12.50	22.5	1
FR1 n77 pc2	Ant 6	12.50	15.50	24.60	12.50	22.5	1
FR1 n77	Ant 7	17.00	17.50	24.40	17.00	22.0	1.5
FR1 n77 pc2	Ant 7	17.00	17.50	24.40	17.00	22.0	1.5
FR1 n77	Ant 8	16.50	17.50	17.50	16.50	21.5	1.5
FR1 n77 pc2	Ant 8	16.50	17.50	17.50	16.50	21.5	1.5
FR1 n77	Ant 9	23.40	11.50	21.80	11.50	21.5	1.5
FR1 n77 pc2	Ant 9	23.40	11.50	21.80	11.50	21.5	1.5
FR1 n78	Ant 6	12.50	15.50	24.60	12.50	23.5	1
FR1 n78 pc2	Ant 6	12.50	15.50	24.60	12.50	23.5	1
FR1 n78	Ant 7	17.00	17.50	24.10	17.00	23.0	1.5
FR1 n78 pc2	Ant 7	17.00	17.50	24.10	17.00	23.0	1.5
FR1 n78	Ant 8	17.00	17.00	17.00	17.00	22.5	1.5
FR1 n78 pc2	Ant 8	17.00	17.00	17.00	17.00	22.5	1.5
FR1 n78	Ant 9	22.90	11.00	21.50	11.00	22.5	1.5
FR1 n78 pc2	Ant 9	22.90	11.00	21.50	11.00	22.5	1.5

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

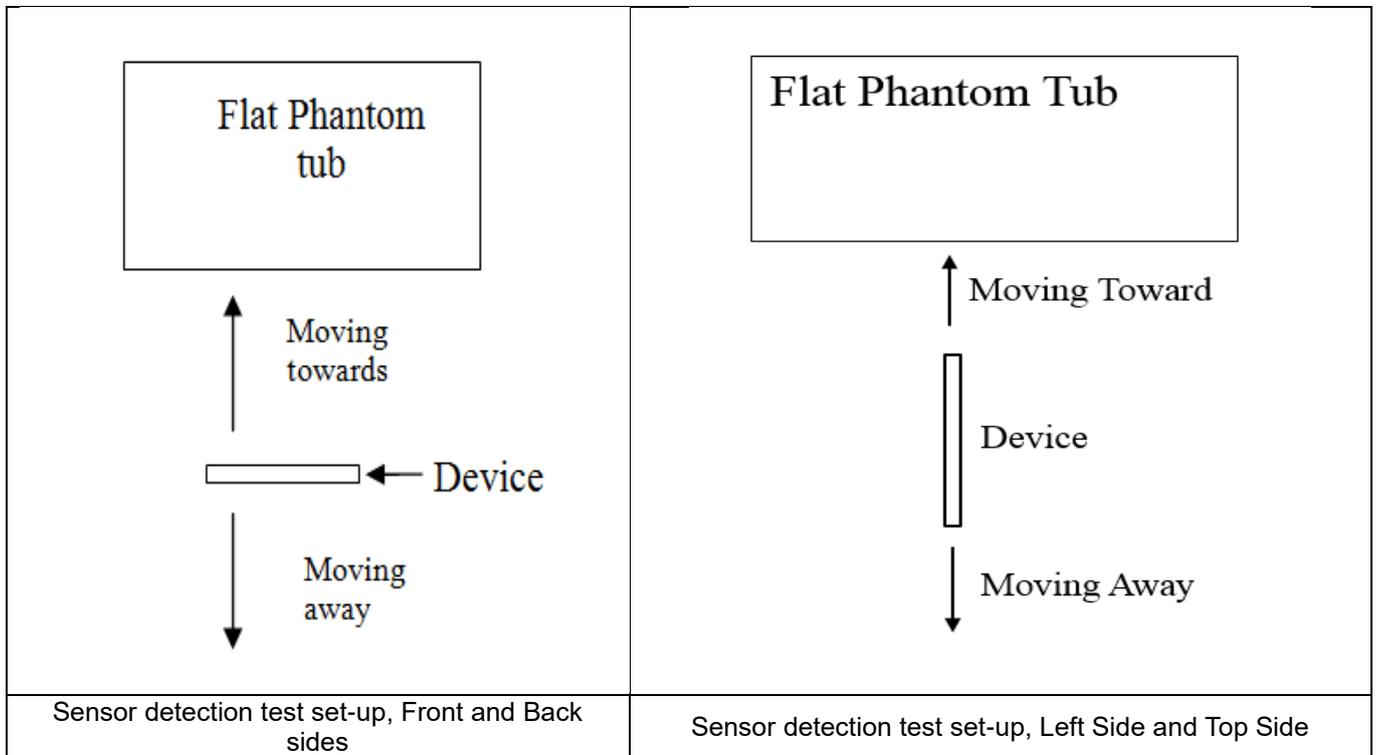
2) All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD).

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>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (3980MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top of left sides 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.
3. The sensors can use to detect the proximity of the user's body or handheld states at the front or back or left or top side of the device use a detection threshold distance. When front/back/top/left sides of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
4. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed.



<Sensor for Ant 1/3/5/6/7/9>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Top Side	
	Moving towards	Moving away						
Minimum	13	13	16	16	16	16	16	16

7. RF Exposure Limits

7.1 Uncontrolled Environment

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

7.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

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:

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

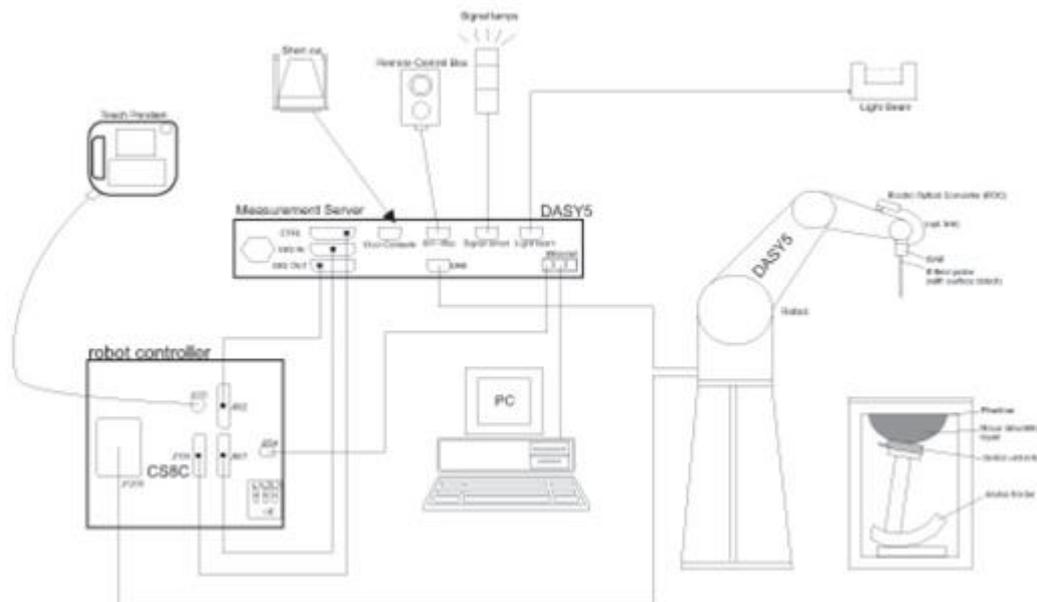
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

9.1 E-Field Probe

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

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ±0.2 dB (30 MHz – 4 GHz)	
Directivity	±0.2 dB in TSL (rotation around probe axis) ±0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 µW/g – >100 mW/g; Linearity: ±0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm	

<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 µW/g – >100 mW/g Linearity: ±0.2 dB (noise: typically <1 µW/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

9.2 Data Acquisition Electronics (DAE)

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

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



Photo of DAE

9.3 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

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

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

9.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

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



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

10. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

10.1 Spatial Peak SAR Evaluation

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

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

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

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

10.2 Power Reference Measurement

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

10.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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: $\Delta x_{Area}, \Delta y_{Area}$	≤ 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: $\Delta x_{Zoom}, \Delta y_{Zoom}$			≤ 2 GHz: ≤ 8 mm $2 - 3$ GHz: ≤ 5 mm*	$3 - 4$ GHz: ≤ 5 mm* $4 - 6$ GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	$3 - 4$ GHz: ≤ 4 mm $4 - 5$ GHz: ≤ 3 mm $5 - 6$ GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	$3 - 4$ GHz: ≤ 3 mm $4 - 5$ GHz: ≤ 2.5 mm $5 - 6$ GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	$3 - 4$ GHz: ≥ 28 mm $4 - 5$ GHz: ≥ 25 mm $5 - 6$ GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details. * When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

10.5 Volume Scan Procedures

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

10.6 Power Drift Monitoring

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

11. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1099	2024/12/13	2025/12/12
SPEAG	835MHz System Validation Kit	D835V2	4d162	2024/12/13	2025/12/12
SPEAG	1750MHz System Validation Kit	D1750V2	1137	2024/10/15	2025/10/14
SPEAG	1900MHz System Validation Kit	D1900V2	5d182	2024/12/16	2025/12/15
SPEAG	2450MHz System Validation Kit	D2450V2	1095	2024/2/8	2026/2/6
SPEAG	2600MHz System Validation Kit	D2600V2	1112	2023/12/18	2025/12/16
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2023/11/20	2025/11/18
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2023/11/20	2025/11/18
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2023/3/9	2026/3/6
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2025/9/21
SPEAG	Data Acquisition Electronics	DAE4	690	2024/10/8	2025/10/7
SPEAG	Data Acquisition Electronics	DAE4	1279	2024/8/20	2025/8/19
SPEAG	Dosimetric E-Field Probe	EX3DV4	3857	2025/2/19	2026/2/18
SPEAG	Dosimetric E-Field Probe	ES3DV3	3282	2025/1/23	2026/1/22
SPEAG	SAM Twin Phantom	SAM Twin	TP-1842	NCR	NCR
SPEAG	SAM Twin Phantom	SAM Twin	TP-1697	NCR	NCR
Beichuang	Thermo-Hygrometer	HTC-1	1949250	2025/1/11	2026/1/10
Beichuang	Thermo-Hygrometer	HTC-1	1949251	2025/1/11	2026/1/10
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2024/7/4	2025/7/3
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	2024/7/4	2025/7/3
SPEAG	Dielectric Probe Kit	DAK-3.5	1144	2024/8/20	2025/8/19
Anritsu	Vector Signal Generator	MG3710A	6201682672	2025/1/3	2026/1/2
Rohde & Schwarz	Power Meter	NRVD	102081	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2024/7/4	2025/7/3
R&S	BLUETOOTH TESTER	CBT	101246	2024/7/4	2025/7/3
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2024/10/11	2025/10/10
TES	DIGITAC THERMOMETER	TYPE-K	220305411	2025/1/2	2026/1/1
ARRA	Power Divider	A3200-2	ARRA		Note 1
MCL	Attenuation1	BW-S10W5+	MCL		Note 1
MCL	Attenuation2	BW-S10W5+	MCL		Note 1
MCL	Attenuation3	BW-S10W5+	MCL		Note 1
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A		Note 1
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B		Note 1
Agilent	Dual Directional Coupler	778D	20500		Note 1
Agilent	Dual Directional Coupler	11691D	MY48151020		Note 1

Note:

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

12. System Verification

12.1 Tissue Simulating Liquids

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



Fig 11.1 Photo of Liquid Height for Head SAR



Fig 11.2 Photo of Liquid Height for Body SAR

12.2 Tissue Verification

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

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

Simulating Liquid for 5GHz, Manufactured by SPEAG

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

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	Head	22.6	0.887	42.962	0.89	41.90	-0.34	2.53	±5	2025/5/7
750	Head	22.9	0.885	42.867	0.89	41.90	-0.56	2.31	±5	2025/5/13
750	Head	22.6	0.885	43.024	0.89	41.90	-0.56	2.68	±5	2025/5/20
835	Head	22.7	0.921	42.419	0.90	41.50	2.33	2.21	±5	2025/5/10
835	Head	22.6	0.918	42.469	0.90	41.50	2.00	2.33	±5	2025/5/15
835	Head	22.8	0.92	42.59	0.90	41.50	2.22	2.63	±5	2025/5/22
1750	Head	22.9	1.372	40.742	1.37	40.10	0.15	1.60	±5	2025/5/13
1750	Head	22.7	1.375	40.722	1.37	40.10	0.36	1.55	±5	2025/5/17
1750	Head	22.7	1.375	40.744	1.37	40.10	0.36	1.61	±5	2025/5/24
1900	Head	22.6	1.449	39.174	1.40	40.00	3.50	-2.07	±5	2025/5/16
1900	Head	22.7	1.452	39.149	1.40	40.00	3.71	-2.13	±5	2025/5/19
1900	Head	22.9	1.454	39.162	1.40	40.00	3.86	-2.10	±5	2025/5/26
2450	Head	22.7	1.767	39.303	1.80	39.20	-1.83	0.26	±5	2025/5/24
2450	Head	22.8	1.766	39.243	1.80	39.20	-1.89	0.11	±5	2025/5/26
2600	Head	22.6	1.917	38.795	1.96	39.00	-2.19	-0.53	±5	2025/5/20
2600	Head	22.8	1.91	38.822	1.96	39.00	-2.55	-0.46	±5	2025/5/21
2600	Head	22.6	1.914	38.819	1.96	39.00	-2.35	-0.46	±5	2025/5/28
3500	Head	22.6	2.964	37.798	2.91	37.90	1.86	-0.27	±5	2025/5/15
3500	Head	22.8	2.978	37.648	2.91	37.90	2.34	-0.66	±5	2025/5/16
3500	Head	22.8	2.968	37.804	2.91	37.90	1.99	-0.25	±5	2025/5/22
3700	Head	22.9	3.183	37.526	3.12	37.70	2.02	-0.46	±5	2025/5/17
3700	Head	22.7	3.159	37.589	3.12	37.70	1.25	-0.29	±5	2025/5/20
3700	Head	22.9	3.188	37.446	3.12	37.70	2.18	-0.67	±5	2025/5/23
3900	Head	22.7	3.372	37.252	3.33	37.51	1.26	-0.69	±5	2025/5/19
3900	Head	22.7	3.39	37.442	3.33	37.51	1.80	-0.18	±5	2025/5/21
3900	Head	22.6	3.369	37.295	3.33	37.51	1.17	-0.57	±5	2025/5/23
5250	Head	22.8	4.701	36.251	4.71	35.95	-0.19	0.84	±5	2025/5/26
5250	Head	22.7	4.661	36.407	4.71	35.95	-1.04	1.27	±5	2025/5/27
5600	Head	22.8	4.995	35.778	5.07	35.50	-1.48	0.78	±5	2025/5/28
5600	Head	22.6	5.007	35.937	5.07	35.50	-1.24	1.23	±5	2025/5/30
5750	Head	22.9	5.196	35.641	5.22	35.35	-0.46	0.82	±5	2025/5/30
5750	Head	22.8	5.212	35.64	5.22	35.35	-0.15	0.82	±5	2025/5/31

12.3 System Performance Check Results

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

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2025/5/7	750	Head	50	1099	3282	690	0.412	8.280	8.24	-0.48	0.274	5.370	5.48	2.05
2025/5/13	750	Head	50	1099	3282	690	0.411	8.280	8.22	-0.72	0.274	5.370	5.48	2.05
2025/5/20	750	Head	50	1099	3282	690	0.406	8.280	8.12	-1.93	0.269	5.370	5.38	0.19
2025/5/10	835	Head	50	4d162	3282	690	0.474	9.080	9.48	4.41	0.313	5.850	6.26	7.01
2025/5/15	835	Head	50	4d162	3282	690	0.480	9.080	9.6	5.73	0.317	5.850	6.34	8.38
2025/5/22	835	Head	50	4d162	3282	690	0.474	9.080	9.48	4.41	0.313	5.850	6.26	7.01
2025/5/13	1750	Head	50	1137	3282	690	1.730	36.800	34.6	-5.98	0.918	19.600	18.36	-6.33
2025/5/17	1750	Head	50	1137	3282	690	1.750	36.800	35	-4.89	0.923	19.600	18.46	-5.82
2025/5/24	1750	Head	50	1137	3282	690	1.840	36.800	36.8	0.00	0.972	19.600	19.44	-0.82
2025/5/16	1900	Head	50	5d182	3282	690	1.930	39.800	38.6	-3.02	0.964	21.000	19.28	-8.19
2025/5/19	1900	Head	50	5d182	3282	690	1.930	39.800	38.6	-3.02	0.965	21.000	19.3	-8.10
2025/5/26	1900	Head	50	5d182	3282	690	2.060	39.800	41.2	3.52	1.060	21.000	21.2	0.95
2025/5/24	2450	Head	50	1095	3857	1279	2.510	52.600	50.2	-4.56	1.120	24.700	22.4	-9.31
2025/5/26	2450	Head	50	1095	3857	1279	2.680	52.600	53.6	1.90	1.270	24.700	25.4	2.83
2025/5/20	2600	Head	50	1112	3282	690	2.600	55.100	52	-5.63	1.160	24.800	23.2	-6.45
2025/5/21	2600	Head	50	1112	3282	690	2.600	55.100	52	-5.63	1.160	24.800	23.2	-6.45
2025/5/28	2600	Head	50	1112	3282	690	2.700	55.100	54	-2.00	1.200	24.800	24	-3.23
2025/5/15	3500	Head	50	1037	3857	1279	3.270	65.400	65.4	0.00	1.260	24.700	25.2	2.02
2025/5/16	3500	Head	50	1037	3857	1279	3.450	65.400	69	5.50	1.340	24.700	26.8	8.50
2025/5/22	3500	Head	50	1037	3857	1279	3.280	65.400	65.6	0.31	1.260	24.700	25.2	2.02
2025/5/17	3700	Head	50	1008	3857	1279	3.480	67.200	69.6	3.57	1.300	24.400	26	6.56
2025/5/20	3700	Head	50	1008	3857	1279	3.460	67.200	69.2	2.98	1.290	24.400	25.8	5.74
2025/5/23	3700	Head	50	1008	3857	1279	3.490	67.200	69.8	3.87	1.310	24.400	26.2	7.38
2025/5/19	3900	Head	50	1048	3857	1279	3.610	69.100	72.2	4.49	1.310	24.100	26.2	8.71
2025/5/21	3900	Head	50	1048	3857	1279	3.630	69.100	72.6	5.07	1.320	24.100	26.4	9.54
2025/5/23	3900	Head	50	1048	3857	1279	3.610	69.100	72.2	4.49	1.310	24.100	26.2	8.71
2025/5/26	5250	Head	50	1113	3857	1279	3.850	81.500	77	-5.52	1.130	23.300	22.6	-3.00
2025/5/27	5250	Head	50	1113	3857	1279	4.080	81.500	81.6	0.12	1.170	23.300	23.4	0.43
2025/5/28	5600	Head	50	1113	3857	1279	3.770	82.600	75.4	-8.72	1.090	23.700	21.8	-8.02
2025/5/30	5600	Head	50	1113	3857	1279	4.020	82.600	80.4	-2.66	1.140	23.700	22.8	-3.80
2025/5/30	5750	Head	50	1113	3857	1279	3.880	80.800	77.6	-3.96	1.140	23.000	22.8	-0.87
2025/5/31	5750	Head	50	1113	3857	1279	3.870	80.800	77.4	-4.21	1.110	23.000	22.2	-3.48

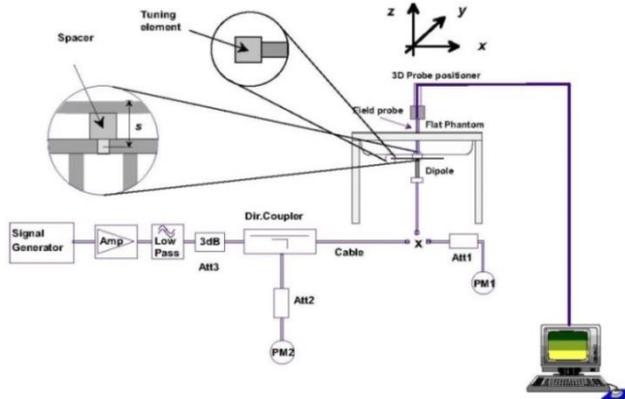


Fig 11.3.1 System Performance Check Setup



Fig 11.3.2 Setup Photo

13. RF Exposure Positions

13.1 Ear and handset reference point

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

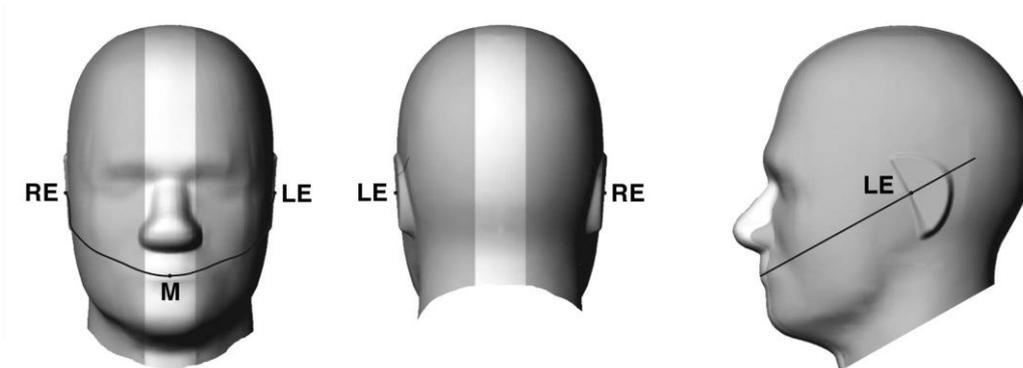


Fig 12.1.1 Front, back, and side views of SAM twin phantom

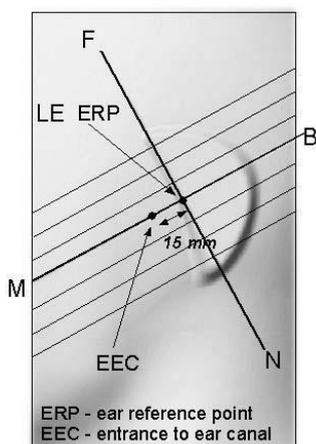


Fig 12.1.2 Close-up side view of phantom showing the ear region.

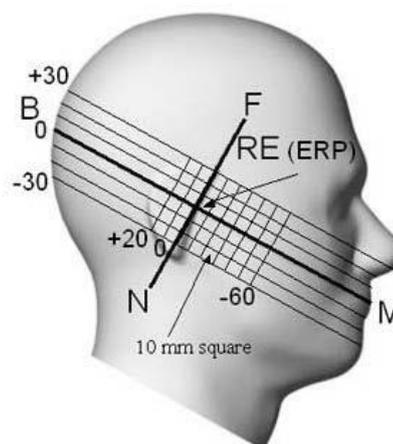


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

13.2 Definition of the cheek position

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

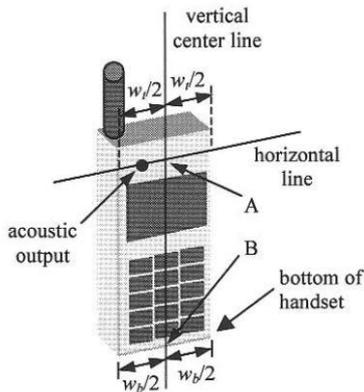


Fig 12.2.1 Handset vertical and horizontal reference lines—“fixed case”

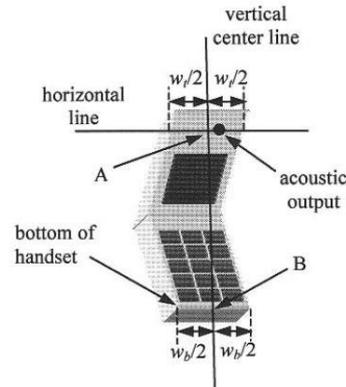


Fig 12.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

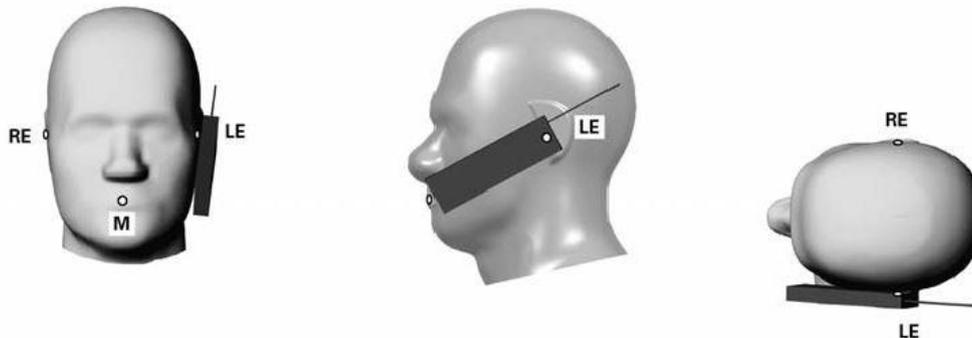


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

13.3 Definition of the tilt position

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

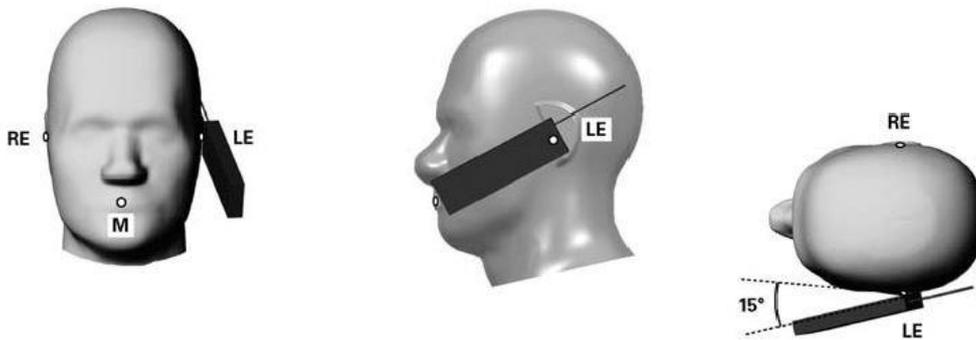


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

13.4 Body Worn Accessory

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

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

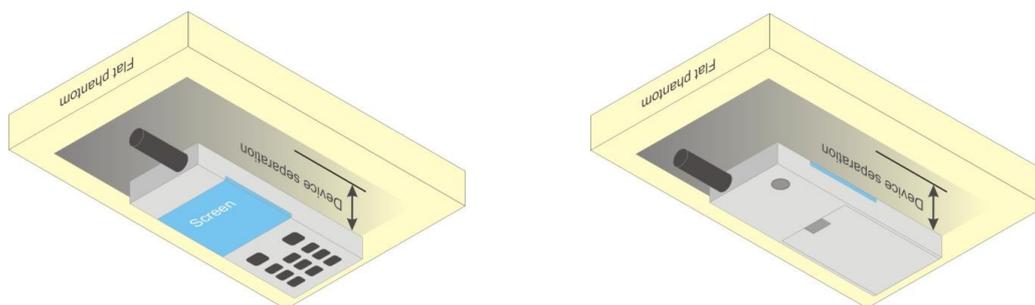


Fig 12.4 Body Worn Position

13.5 Product Specific 10g SAR Exposure

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

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

13.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ($L \times W \geq 9$ 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 $\leq \frac{1}{4}$ 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: $\Delta_{ACK}, \Delta_{NACK}$ 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:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	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 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, TF0) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

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

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

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	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.		

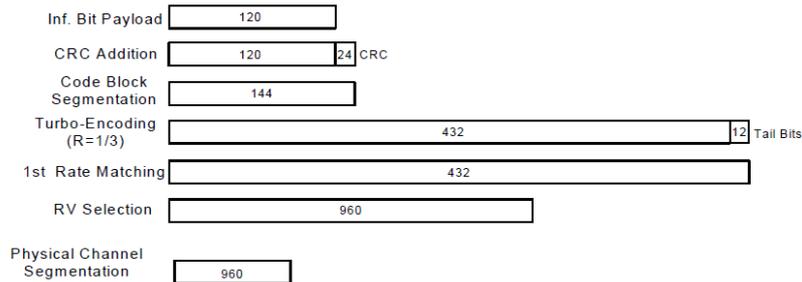


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK) Setup Configuration

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 Parmns
 - 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-TFCl is equal to the target E-TFCl of 105 for sub-test 1, and other subtest's E-TFCl
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-TFCl (Note 5)	E-TFCl (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

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

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

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

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

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

Setup Configuration

<WCDMA Conducted Power>

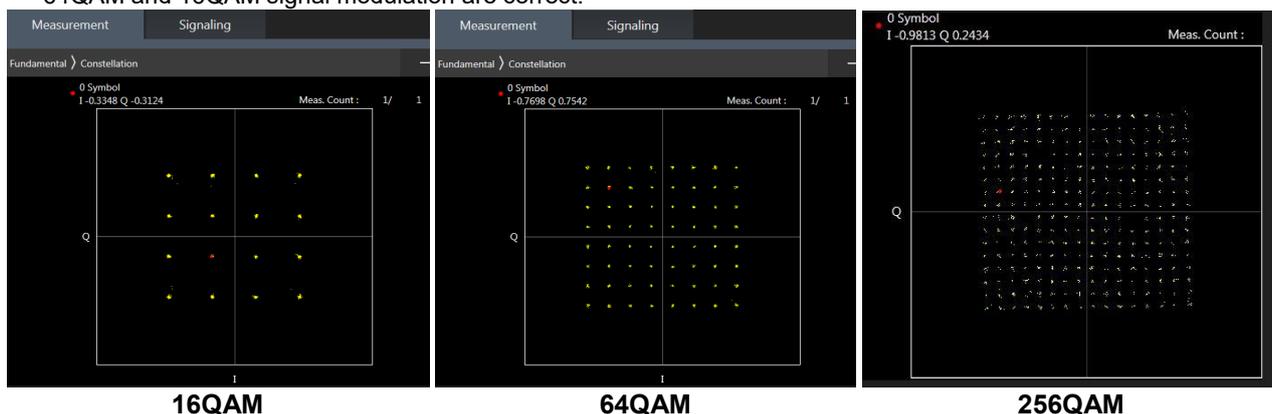
General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is $\leq 1/4$ 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 $1/4$ 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.

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

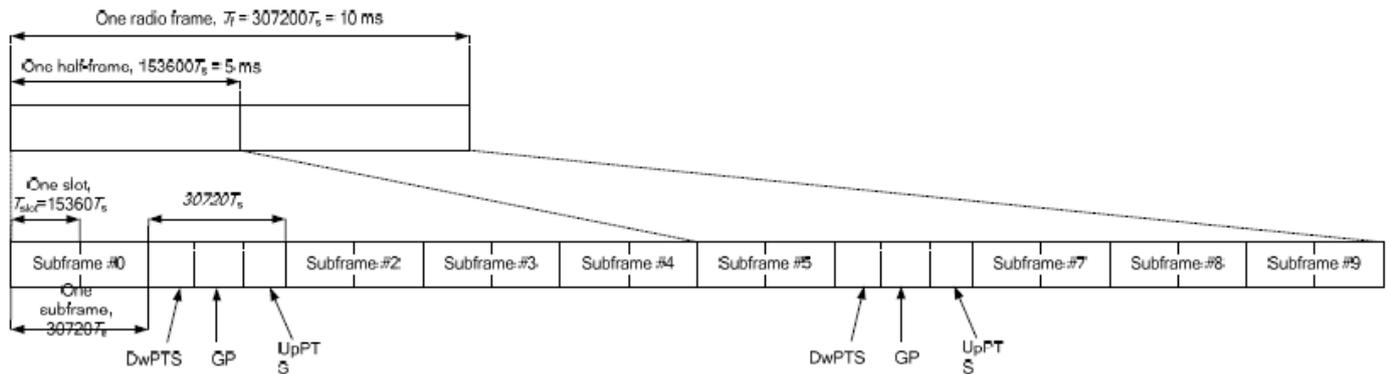


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

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

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

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

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

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

The highest duty factor is resulted from:

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



<LTE Carrier Aggregation>

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

General Note:

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

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_7C	ANT2/3/4/5
CA_38C	ANT2/3/4/5

<Intra-band>

General Note:

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

<Inter-band uplink carrier aggregation consideration>

LTEUplink CA	2CC Uplink Carrier Aggregation	
Inter-band	Antenna Tx	Antenna Tx
CA_2A-4A	Ant: 2/4/3/5	Ant: 3/4/2/5
CA_2A-7A	Ant: 3/4/2/5	Ant: 2/4/3/5
CA_4A-5A	Ant: 2/4/3/5	Ant: 0/1
CA_4A-7A	Ant: 3/4/2/5	Ant: 2/4/3/5

General Note:

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

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n5 / n7 / n66 / n38 /n41 /n77 /n78 is NSA mode.
2. 5G NR n2/n5/n7/n12/n25/n26/n66/n71/n38/n41/n48/n77/n78 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s QPSK and the reported SAR for the DFT-s QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. For 5G NR, the simultaneous transmission analysis is used standalone SAR at total power level to show compliance.
5. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
6. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
7. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
8. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
9. For 5G NR n41/n77/n78 HPUE, 5G NR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands, using FTM to perform SAR with default 100% transmission.

<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_2A_n7A	Ant: 3/4/2/5	Ant: 2/4/3/5
DC_4A_n7A	Ant: 3/4/2/5	Ant: 2/4/3/5
DC_5A_n7A	Ant: 0/1	Ant: 2/4/3/5
DC_66A_n7A	Ant: 3/4/2/5	Ant: 2/4/3/5
DC_2A_n66A	Ant: 2/4/3/5	Ant: 3/4/2/5
DC_4A_n66A	Ant: 3/4/2/5	Ant: 2/4/3/5
DC_5A_n66A	Ant: 0/1	Ant: 2/4/3/5
DC_66A_n66A	Ant: 3/4/2/5	Ant: 2/4/3/5
DC_7A_n66A	Ant: 2/4/3/5	Ant: 3/4/2/5
DC_2A_n38A	Ant: 3/4/2/5	Ant: 2/4/3/5
DC_4A_n38A	Ant: 3/4/2/5	Ant: 2/4/3/5
DC_5A_n38A	Ant: 0/1	Ant: 2/4/3/5
DC_66A_n38A	Ant: 3/4/2/5	Ant: 2/4/3/5
DC_2A_n41A	Ant: 3/4/2/5	Ant: 2/4/3/5
DC_4A_n41A	Ant: 3/4/2/5	Ant: 2/4/3/5
DC_5A_n41A	Ant: 0/1	Ant: 2/4/3/5
DC_66A_n41A	Ant: 3/4/2/5	Ant: 2/4/3/5
DC_7A_n5A	Ant: 2/4/3/5	Ant: 0/1
DC_2A_77A	Ant: 2/4/3/5	Ant: 6/7/8/9
DC_26A_78A	Ant: 0/1	Ant: 6/7/8/9
DC_2A_78A	Ant: 2/4/3/5	Ant: 6/7/8/9
DC_38A_78A	Ant: 2/4/3/5	Ant: 6/7/8/9
DC_41A_78A	Ant: 2/4/3/5	Ant: 6/7/8/9
DC_4A_78A	Ant: 2/4/3/5	Ant: 6/7/8/9
DC_5A_78A	Ant: 0/1	Ant: 6/7/8/9
DC_66A_78A	Ant: 2/4/3/5	Ant: 6/7/8/9
DC_7A_78A	Ant: 2/4/3/5	Ant: 6/7/8/9

<WLAN Conducted Power>

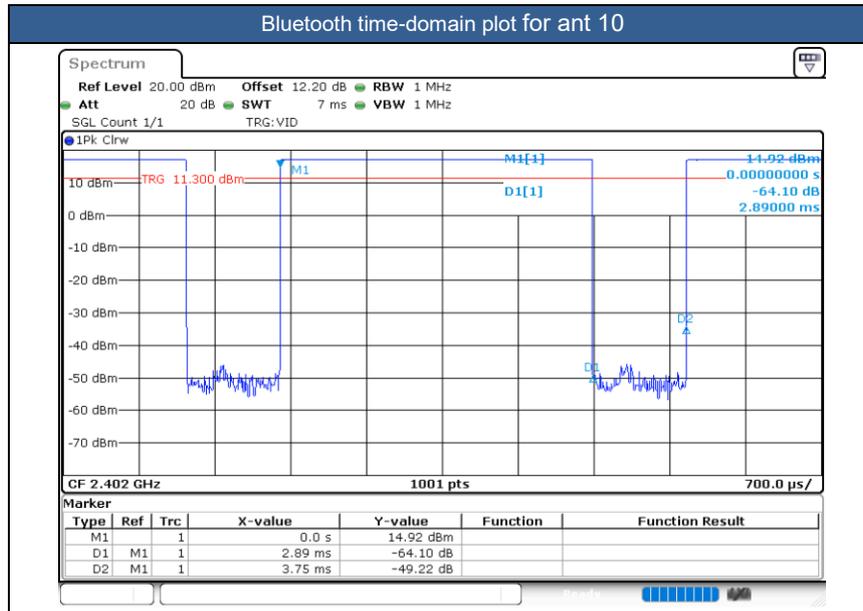
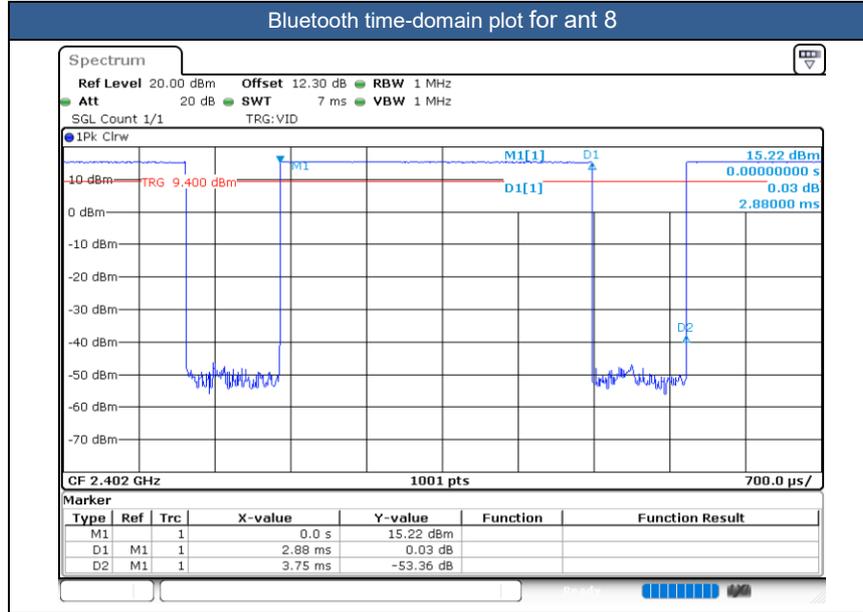
General Note:

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

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.8% for ant 8 and 77.07% for ant 10 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. 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 WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of WLAN2.4GHz, therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
6. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
7. LTE B5/5GNR n5 at ant0/1 and LTE B2/4/66 and 5GNR n66 at ant2/3/4/5 support different PAs for some antennas, and some LTE/NR bands support Other PA only under ENDC. Some LTE/NR bands support different PAs for some antennas, whether it is the maximum power of Main PA is higher than and very close to the other PA, for RF exposure, after verification all PAs in a same position, so the worst-case PA was chosen to perform full SAR testing to ensure the RF exposure is compliance and another PA verified the worst case.
8. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
9. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.
10. The following table "n/a" in the result means the SAR cube is too small to be found.
11. This device supports UAC (Unified Antenna Control) technology for LTE B2/4/5/7/12/13/17/25/26/66/71/38/41 and 5GNR



n2/12/5/7/26/25/66/71/38/41, which is an antenna tuner technology developed by MTK that can perform adaptive tuning based on the base station network. All tune codes have been to perform full SAR testing.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is \leq ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

WCDMA Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is \leq ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is \leq 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+ .

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are \leq 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is $>$ 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is $>$ not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is \leq 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is \leq 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / 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 \leq 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is $>$ 1.45 W/kg, the remaining required test channels must also be tested.
 - 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 n2/n5 /n7/n26/n66/n71/n38/n41 /n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. Per KDB 248227 D01v02r02, when SAR measurement is required for at least one of the two U-NII bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is < 1.2 W/kg, SAR is not required for the 160 MHz channel.
4. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
5. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
6. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
7. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. Further simplification chose the worse SAR value and the worst scaling factor from each transmit chain perform reported SAR calculation conservatively. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.

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)	code State	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																					
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI1	133297	680.5	code:1	24.27	25.00	1.183	-	-	-0.01	0.044	0.052
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	ECI1	133297	680.5	code:1	23.47	24.00	1.130	-	-	-0.07	0.037	0.042
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI1	133297	680.5	code:1	24.27	25.00	1.183	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	ECI1	133297	680.5	code:1	23.47	24.00	1.130	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI1	133297	680.5	code:1	24.27	25.00	1.183	-	-	-0.17	0.069	0.082
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	ECI1	133297	680.5	code:1	23.47	24.00	1.130	-	-	-0.1	0.044	0.050
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI1	133297	680.5	code:1	24.27	25.00	1.183	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	ECI1	133297	680.5	code:1	23.47	24.00	1.130	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI1	133297	680.5	code:3	24.27	25.00	1.183	-	-	-0.04	0.026	0.031
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	ECI1	133297	680.5	code:3	23.47	24.00	1.130	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI1	133297	680.5	code:3	24.27	25.00	1.183	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	ECI1	133297	680.5	code:3	23.47	24.00	1.130	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI1	133297	680.5	code:3	24.27	25.00	1.183	-	-	-0.01	0.041	0.049
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	ECI1	133297	680.5	code:3	23.47	24.00	1.130	-	-	-0.09	0.026	0.029
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI1	133297	680.5	code:3	24.27	25.00	1.183	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	ECI1	133297	680.5	code:3	23.47	24.00	1.130	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI1	133297	680.5	code:C	22.43	23.50	1.279	-	-	-0.11	0.576	0.737
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI1	133297	680.5	code:C	22.33	23.50	1.309	-	-	0.14	0.417	0.546
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI1	133297	680.5	code:C	22.43	23.50	1.279	-	-	0.1	0.103	0.132
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI1	133297	680.5	code:C	22.33	23.50	1.309	-	-	0.16	0.078	0.102
01	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI1	133297	680.5	code:C	22.43	23.50	1.279	-	-	-0.02	0.782	1.000
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI1	133297	680.5	code:C	22.33	23.50	1.309	-	-	0.02	0.713	0.933
	LTE Band 71	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 1	ECI1	133297	680.5	code:C	22.12	23.50	1.374	-	-	-0.16	0.629	0.864
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI1	133297	680.5	code:C	22.43	23.50	1.279	-	-	0.05	0.130	0.166
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI1	133297	680.5	code:C	22.33	23.50	1.309	-	-	-0.03	0.097	0.127
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI1	23095	707.5	code:2	24.61	25.50	1.227	-	-	-0.13	0.138	0.169
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI1	23095	707.5	code:2	23.86	24.50	1.159	-	-	0.17	0.115	0.133
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI1	23095	707.5	code:2	24.61	25.50	1.227	-	-	0.06	0.079	0.097
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI1	23095	707.5	code:2	23.86	24.50	1.159	-	-	-0.08	0.068	0.079
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI1	23095	707.5	code:2	24.61	25.50	1.227	-	-	-0.04	0.115	0.141
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI1	23095	707.5	code:2	23.86	24.50	1.159	-	-	-0.15	0.096	0.111
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI1	23095	707.5	code:2	24.61	25.50	1.227	-	-	0.11	0.066	0.081
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI1	23095	707.5	code:2	23.86	24.50	1.159	-	-	-0.02	0.058	0.067
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI1	23095	707.5	code:a	22.15	23.20	1.274	-	-	-0.15	0.555	0.707
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	ECI1	23095	707.5	code:a	22.09	23.20	1.291	-	-	-0.02	0.448	0.578
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI1	23095	707.5	code:a	22.15	23.20	1.274	-	-	0.14	0.109	0.139
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	ECI1	23095	707.5	code:a	22.09	23.20	1.291	-	-	0.1	0.088	0.114
02	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI1	23095	707.5	code:a	22.15	23.20	1.274	-	-	-0.09	0.739	0.941
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI1	23095	707.5	code:a	22.09	23.20	1.291	-	-	-0.09	0.606	0.782
	LTE Band 12	10M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI1	23095	707.5	code:a	22.01	23.20	1.315	-	-	0.07	0.617	0.811
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI1	23095	707.5	code:a	22.15	23.20	1.274	-	-	-0.09	0.126	0.161
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	ECI1	23095	707.5	code:a	22.09	23.20	1.291	-	-	-0.16	0.103	0.133
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI1	23230	782	code:0	24.72	25.50	1.197	-	-	0.1	0.211	0.253
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI1	23230	782	code:0	23.81	24.50	1.172	-	-	0.04	0.163	0.191
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI1	23230	782	code:0	24.72	25.50	1.197	-	-	0.13	0.134	0.160
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI1	23230	782	code:0	23.81	24.50	1.172	-	-	-0.18	0.103	0.121
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI1	23230	782	code:0	24.72	25.50	1.197	-	-	-0.11	0.172	0.206
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI1	23230	782	code:0	23.81	24.50	1.172	-	-	-0.16	0.133	0.156
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI1	23230	782	code:0	24.72	25.50	1.197	-	-	-0.15	0.099	0.119
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI1	23230	782	code:0	23.81	24.50	1.172	-	-	-0.06	0.075	0.088



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	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI1	23230	782	code:6	21.63	22.70	1.279	-	-	0.08	0.450	0.576
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	ECI1	23230	782	code:6	21.57	22.70	1.297	-	-	0.01	0.410	0.532
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI1	23230	782	code:6	21.63	22.70	1.279	-	-	0.03	0.090	0.115
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	ECI1	23230	782	code:6	21.57	22.70	1.297	-	-	-0.08	0.083	0.108
03	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI1	23230	782	code:6	21.63	22.70	1.279	-	-	0.02	0.691	0.884
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI1	23230	782	code:6	21.57	22.70	1.297	-	-	-0.08	0.646	0.838
	LTE Band 13	10M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI1	23230	782	code:6	21.36	22.70	1.361	-	-	0.1	0.623	0.848
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI1	23230	782	code:6	21.63	22.70	1.279	-	-	-0.18	0.101	0.129
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	ECI1	23230	782	code:6	21.57	22.70	1.297	-	-	0.1	0.094	0.122
	LTE Band 17	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI1	23790	710	code:2	24.61	25.50	1.227	-	-	-0.14	0.148	0.182
	LTE Band 17	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI1	23790	710	code:2	23.75	24.50	1.189	-	-	-0.19	0.123	0.146
	LTE Band 17	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI1	23790	710	code:2	24.61	25.50	1.227	-	-	0.01	0.087	0.107
	LTE Band 17	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI1	23790	710	code:2	23.75	24.50	1.189	-	-	0.06	0.075	0.089
	LTE Band 17	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI1	23790	710	code:2	24.61	25.50	1.227	-	-	0.02	0.122	0.150
	LTE Band 17	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI1	23790	710	code:2	23.75	24.50	1.189	-	-	0.12	0.101	0.120
	LTE Band 17	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI1	23790	710	code:2	24.61	25.50	1.227	-	-	-0.16	0.069	0.085
	LTE Band 17	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI1	23790	710	code:2	23.75	24.50	1.189	-	-	-0.12	0.057	0.068
	LTE Band 17	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI1	23790	710	code:a	22.02	23.20	1.312	-	-	-0.18	0.538	0.706
	LTE Band 17	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	ECI1	23790	710	code:a	21.85	23.20	1.365	-	-	-0.07	0.429	0.586
	LTE Band 17	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI1	23790	710	code:a	22.02	23.20	1.312	-	-	-0.08	0.104	0.136
	LTE Band 17	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	ECI1	23790	710	code:a	21.85	23.20	1.365	-	-	-0.1	0.084	0.115
04	LTE Band 17	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI1	23790	710	code:a	22.02	23.20	1.312	-	-	-0.06	0.724	0.950
	LTE Band 17	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI1	23790	710	code:a	21.85	23.20	1.365	-	-	-0.09	0.684	0.934
	LTE Band 17	10M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI1	23790	710	code:a	21.66	23.20	1.426	-	-	-0.06	0.590	0.841
	LTE Band 17	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI1	23790	710	code:a	22.02	23.20	1.312	-	-	-0.17	0.120	0.157
	LTE Band 17	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	ECI1	23790	710	code:a	21.85	23.20	1.365	-	-	-0.01	0.094	0.128
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	136100	680.5	code:1	24.37	25.00	1.156	-	-	0.12	0.079	0.091
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	136100	680.5	code:1	24.14	25.00	1.219	-	-	0.03	0.063	0.077
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	136100	680.5	code:1	24.37	25.00	1.156	-	-	0.18	0.057	0.066
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	136100	680.5	code:1	24.14	25.00	1.219	-	-	0.16	0.046	0.056
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	136100	680.5	code:1	24.37	25.00	1.156	-	-	-0.1	0.094	0.109
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	136100	680.5	code:1	24.14	25.00	1.219	-	-	0.07	0.071	0.087
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	136100	680.5	code:1	24.37	25.00	1.156	-	-	0.18	0.055	0.064
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	136100	680.5	code:1	24.14	25.00	1.219	-	-	-	n/a	n/a
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	136100	680.5	code:3	24.37	25.00	1.156	-	-	-	n/a	n/a
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	136100	680.5	code:3	24.14	25.00	1.219	-	-	-	n/a	n/a
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	136100	680.5	code:3	24.37	25.00	1.156	-	-	-	n/a	n/a
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	136100	680.5	code:3	24.14	25.00	1.219	-	-	-	n/a	n/a
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	136100	680.5	code:3	24.37	25.00	1.156	-	-	0.03	0.052	0.060
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	136100	680.5	code:3	24.14	25.00	1.219	-	-	-	n/a	n/a
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	136100	680.5	code:3	24.37	25.00	1.156	-	-	-	n/a	n/a
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	136100	680.5	code:3	24.14	25.00	1.219	-	-	-	n/a	n/a
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI1	136100	680.5	-	21.33	22.50	1.309	-	-	0.05	0.528	0.691
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI1	136100	680.5	-	21.21	22.50	1.346	-	-	0.13	0.480	0.646
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI1	136100	680.5	-	21.33	22.50	1.309	-	-	-0.04	0.123	0.161
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI1	136100	680.5	-	21.21	22.50	1.346	-	-	-0.12	0.112	0.151
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	136100	680.5	-	21.33	22.50	1.309	-	-	0.15	0.718	0.940
05	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	136100	680.5	-	21.21	22.50	1.346	-	-	0.11	0.767	1.032
	FR1 n71	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	136100	680.5	-	20.99	22.50	1.416	-	-	0.07	0.724	1.025
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI1	136100	680.5	-	21.33	22.50	1.309	-	-	-0.07	0.124	0.162
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI1	136100	680.5	-	21.21	22.50	1.346	-	-	0.1	0.104	0.140
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	141500	707.5	code:2	24.76	25.50	1.186	-	-	-0.08	0.122	0.145
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	141500	707.5	code:2	24.72	25.50	1.197	-	-	-0.17	0.135	0.162
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	141500	707.5	code:2	24.76	25.50	1.186	-	-	-0.08	0.083	0.098
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	141500	707.5	code:2	24.72	25.50	1.197	-	-	-0.04	0.097	0.116
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	141500	707.5	code:2	24.76	25.50	1.186	-	-	-0.08	0.124	0.147



	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	141500	707.5	code:2	24.72	25.50	1.197	-	-	0.17	0.141	0.169
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	141500	707.5	code:2	24.76	25.50	1.186	-	-	0.18	0.068	0.081
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	141500	707.5	code:2	24.72	25.50	1.197	-	-	-0.04	0.073	0.087
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI1	141500	707.5	-	21.76	22.70	1.242	-	-	0.08	0.540	0.671
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI1	141500	707.5	-	21.66	22.70	1.271	-	-	0.01	0.593	0.754
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI1	141500	707.5	-	21.76	22.70	1.242	-	-	0.03	0.123	0.153
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI1	141500	707.5	-	21.66	22.70	1.271	-	-	-0.08	0.125	0.159
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	141500	707.5	-	21.76	22.70	1.242	-	-	-0.08	0.704	0.874
06	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	141500	707.5	-	21.66	22.70	1.271	-	-	-0.02	0.727	0.924
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	141500	707.5	-	21.44	22.70	1.337	-	-	-0.04	0.687	0.919
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI1	141500	707.5	-	21.76	22.70	1.242	-	-	-0.18	0.117	0.145
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI1	141500	707.5	-	21.66	22.70	1.271	-	-	0.1	0.141	0.179
835MHz																					
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 0	ECI1	189	836.4	-	26.84	28.00	1.306	-	-	-0.17	0.245	0.320
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 0	ECI1	189	836.4	-	26.84	28.00	1.306	-	-	0.04	0.130	0.170
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 0	ECI1	189	836.4	-	26.84	28.00	1.306	-	-	-0.01	0.161	0.210
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 0	ECI1	189	836.4	-	26.84	28.00	1.306	-	-	-0.08	0.091	0.119
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	ECI1	189	836.4	-	21.98	23.50	1.419	-	-	0.08	0.401	0.569
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 1	ECI1	189	836.4	-	21.98	23.50	1.419	-	-	0.01	0.072	0.102
07	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	ECI1	189	836.4	-	21.98	23.50	1.419	-	-	-0.05	0.644	0.914
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	ECI1	128	824.2	-	21.87	23.50	1.455	-	-	-0.01	0.627	0.912
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	ECI1	251	848.8	-	21.92	23.50	1.439	-	-	-0.08	0.604	0.869
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 1	ECI1	189	836.4	-	21.98	23.50	1.419	-	-	0.03	0.089	0.126
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	ECI1	4182	836.4	-	24.26	25.00	1.186	-	-	-0.16	0.268	0.318
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	ECI1	4182	836.4	-	24.26	25.00	1.186	-	-	0.1	0.137	0.162
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	ECI1	4182	836.4	-	24.26	25.00	1.186	-	-	-0.04	0.190	0.225
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	ECI1	4182	836.4	-	24.26	25.00	1.186	-	-	-0.01	0.072	0.085
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI1	4182	836.4	-	19.27	20.50	1.327	-	-	0.14	0.441	0.585
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	ECI1	4182	836.4	-	19.27	20.50	1.327	-	-	0.11	0.082	0.109
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI1	4182	836.4	-	19.27	20.50	1.327	-	-	-0.05	0.665	0.882
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI1	4132	826.4	-	19.24	20.50	1.337	-	-	0.14	0.624	0.834
08	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI1	4233	846.6	-	19.19	20.50	1.352	-	-	0.09	0.673	0.910
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	ECI1	4182	836.4	-	19.27	20.50	1.327	-	-	0.18	0.096	0.127
	LTE Band 5 main PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI1	20525	836.5	code:4	25.24	25.70	1.112	-	-	0.07	0.287	0.319
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI1	20525	836.5	code:4	24.45	24.70	1.059	-	-	-0.08	0.262	0.277
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI1	20525	836.5	code:4	25.24	25.70	1.112	-	-	0.16	0.147	0.163
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI1	20525	836.5	code:4	24.45	24.70	1.059	-	-	0.05	0.114	0.121
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI1	20525	836.5	code:4	25.24	25.70	1.112	-	-	0.05	0.233	0.259
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI1	20525	836.5	code:4	24.45	24.70	1.059	-	-	-0.03	0.184	0.195
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI1	20525	836.5	code:4	25.24	25.70	1.112	-	-	-0.15	0.105	0.117
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI1	20525	836.5	code:4	24.45	24.70	1.059	-	-	0.02	0.079	0.084
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI1	20525	836.5	code:4	25.10	25.70	1.148	-	-	-0.05	0.275	0.316
	LTE Band 5 main PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI1	20525	836.5	code:8	25.24	25.70	1.112	-	-	0.01	0.287	0.319
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI1	20525	836.5	code:8	24.45	24.70	1.059	-	-	0.13	0.154	0.163
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI1	20525	836.5	code:8	25.24	25.70	1.112	-	-	-0.18	0.074	0.082
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI1	20525	836.5	code:8	24.45	24.70	1.059	-	-	0.02	0.060	0.064
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI1	20525	836.5	code:8	25.24	25.70	1.112	-	-	0.16	0.117	0.130
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI1	20525	836.5	code:8	24.45	24.70	1.059	-	-	-0.03	0.092	0.097
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI1	20525	836.5	code:8	25.24	25.70	1.112	-	-	0.07	0.054	0.060
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI1	20525	836.5	code:8	24.45	24.70	1.059	-	-	-	n/a	n/a
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI1	20525	836.5	code:8	25.10	25.70	1.148	-	-	0.16	0.185	0.212
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI1	20525	836.5	code:2	20.25	20.70	1.109	-	-	-0.08	0.570	0.632
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	ECI1	20525	836.5	code:2	20.14	20.70	1.138	-	-	-0.08	0.573	0.652
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI1	20525	836.5	code:2	20.25	20.70	1.109	-	-	0.1	0.110	0.122
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	ECI1	20525	836.5	code:2	20.14	20.70	1.138	-	-	-0.18	0.107	0.122



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09	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI1	20525	836.5	code:2	20.25	20.70	1.109	-	-	0.1	0.864	0.958
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI1	20525	836.5	code:2	20.14	20.70	1.138	-	-	0.11	0.872	0.992
	LTE Band 5	10M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI1	20525	836.5	code:2	20.00	20.70	1.175	-	-	0.12	0.841	0.988
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI1	20525	836.5	code:2	20.25	20.70	1.109	-	-	0.08	0.127	0.141
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	ECI1	20525	836.5	code:2	20.14	20.70	1.138	-	-	-0.17	0.126	0.143
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI1	20525	836.5	code:0	20.14	20.70	1.138	-	-	-0.03	0.665	0.757
	LTE Band 5 other pa	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI1	20525	836.5	code:2	20.47	20.70	1.054	-	-	0.14	0.850	0.896
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI1	26865	831.5	code:4	25.07	25.70	1.156	-	-	0.07	0.274	0.317
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	ECI1	26865	831.5	code:4	24.28	24.70	1.102	-	-	-0.02	0.249	0.274
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI1	26865	831.5	code:4	25.07	25.70	1.156	-	-	-0.05	0.164	0.190
LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	ECI1	26865	831.5	code:4	24.28	24.70	1.102	-	-	-0.13	0.128	0.141	
LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI1	26865	831.5	code:4	25.07	25.70	1.156	-	-	0.08	0.237	0.274	
LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	ECI1	26865	831.5	code:4	24.28	24.70	1.102	-	-	0.16	0.181	0.199	
LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI1	26865	831.5	code:4	25.07	25.70	1.156	-	-	0.01	0.119	0.138	
LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	ECI1	26865	831.5	code:4	24.28	24.70	1.102	-	-	-0.16	0.092	0.101	
LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI1	26865	831.5	code:8	25.07	25.70	1.156	-	-	0.1	0.162	0.187	
LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	ECI1	26865	831.5	code:8	24.28	24.70	1.102	-	-	-0.04	0.134	0.148	
LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI1	26865	831.5	code:8	25.07	25.70	1.156	-	-	-0.01	0.074	0.086	
LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	ECI1	26865	831.5	code:8	24.28	24.70	1.102	-	-	-0.04	0.059	0.065	
LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI1	26865	831.5	code:8	25.07	25.70	1.156	-	-	-0.11	0.107	0.124	
LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	ECI1	26865	831.5	code:8	24.28	24.70	1.102	-	-	-0.06	0.079	0.087	
LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI1	26865	831.5	code:8	25.07	25.70	1.156	-	-	-0.15	0.051	0.059	
LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	ECI1	26865	831.5	code:8	24.28	24.70	1.102	-	-	-	n/a	n/a	
LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI1	26865	831.5	code:2	20.26	20.70	1.107	-	-	0.11	0.573	0.634	
LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	ECI1	26865	831.5	code:2	20.23	20.70	1.114	-	-	-0.05	0.571	0.636	
LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI1	26865	831.5	code:2	20.26	20.70	1.107	-	-	0.18	0.106	0.117	
LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	ECI1	26865	831.5	code:2	20.23	20.70	1.114	-	-	0.14	0.106	0.118	
LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI1	26865	831.5	code:2	20.26	20.70	1.107	-	-	-0.17	0.827	0.915	
LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	ECI1	26865	831.5	code:2	20.23	20.70	1.114	-	-	0.17	0.825	0.919	
10	LTE Band 26	15M	QPSK	75	0	-	Left Cheek	0mm	Ant 1	ECI1	26865	831.5	code:2	19.94	20.70	1.191	-	-	0.11	0.848	1.010
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI1	26865	831.5	code:2	20.26	20.70	1.107	-	-	-0.05	0.127	0.141
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	ECI1	26865	831.5	code:2	20.23	20.70	1.114	-	-	0.01	0.124	0.138
	LTE Band 26	15M	QPSK	75	0	-	Left Cheek	0mm	Ant 1	ECI1	26865	831.5	code:0	19.94	20.70	1.191	-	-	0.1	0.671	0.799
FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	167300	836.5	code:4	25.37	25.70	1.079	-	-	-0.13	0.249	0.269	
FR1 n5 main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	167300	836.5	code:4	25.16	25.70	1.132	-	-	0.07	0.281	0.318	
FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	167300	836.5	code:4	25.37	25.70	1.079	-	-	-0.15	0.159	0.172	
FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	167300	836.5	code:4	25.16	25.70	1.132	-	-	-0.02	0.152	0.172	
FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	167300	836.5	code:4	25.37	25.70	1.079	-	-	-0.09	0.246	0.265	
FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	167300	836.5	code:4	25.16	25.70	1.132	-	-	0.14	0.238	0.269	
FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	167300	836.5	code:4	25.37	25.70	1.079	-	-	0.1	0.120	0.129	
FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	167300	836.5	code:4	25.16	25.70	1.132	-	-	-0.09	0.105	0.119	
FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	167300	836.5	code:4	24.98	25.70	1.180	-	-	0.16	0.264	0.312	
FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	167300	836.5	code:8	25.37	25.70	1.079	-	-	-0.09	0.149	0.161	
FR1 n5 main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	167300	836.5	code:8	25.16	25.70	1.132	-	-	-0.09	0.195	0.221	
FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	167300	836.5	code:8	25.37	25.70	1.079	-	-	-0.18	0.068	0.073	
FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	167300	836.5	code:8	25.16	25.70	1.132	-	-	-0.07	0.073	0.083	
FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	167300	836.5	code:8	25.37	25.70	1.079	-	-	0.11	0.105	0.113	
FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	167300	836.5	code:8	25.16	25.70	1.132	-	-	-0.08	0.114	0.129	
FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	167300	836.5	code:8	25.37	25.70	1.079	-	-	-0.1	0.048	0.052	
FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	167300	836.5	code:8	25.16	25.70	1.132	-	-	-0.01	0.053	0.060	
FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	167300	836.5	code:8	24.98	25.70	1.180	-	-	-0.16	0.184	0.217	
FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI1	167300	836.5	code:2	21.25	21.70	1.109	-	-	-0.01	0.546	0.606	
FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI1	167300	836.5	code:2	21.15	21.70	1.135	-	-	-0.06	0.626	0.711	
FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI1	167300	836.5	code:2	21.25	21.70	1.109	-	-	-0.04	0.101	0.112	
FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI1	167300	836.5	code:2	21.15	21.70	1.135	-	-	-0.09	0.114	0.129	



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	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	167300	836.5	code:2	21.25	21.70	1.109	-	-	-0.17	0.818	0.907
11	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	167300	836.5	code:2	21.15	21.70	1.135	-	-	0.13	0.895	1.016
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	167300	836.5	code:2	20.95	21.70	1.189	-	-	-0.1	0.844	1.004
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI1	167300	836.5	code:2	21.25	21.70	1.109	-	-	0.18	0.118	0.131
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI1	167300	836.5	code:2	21.15	21.70	1.135	-	-	-0.17	0.134	0.152
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI1	167300	836.5	code:0	21.15	21.70	1.135	-	-	-0.04	0.671	0.762
	FR1 n5 other pa	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	167300	836.5	code:0	21.14	21.70	1.138	-	-	-0.05	0.893	1.016
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	166300	831.5	code:4	25.25	25.70	1.109	-	-	-0.06	0.252	0.279
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	166300	831.5	code:4	24.97	25.70	1.183	-	-	-0.17	0.271	0.321
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	166300	831.5	code:4	25.25	25.70	1.109	-	-	-0.01	0.151	0.167
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	166300	831.5	code:4	24.97	25.70	1.183	-	-	-0.11	0.155	0.183
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	166300	831.5	code:4	25.25	25.70	1.109	-	-	0.14	0.228	0.253
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	166300	831.5	code:4	24.97	25.70	1.183	-	-	0.03	0.235	0.278
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	166300	831.5	code:4	25.25	25.70	1.109	-	-	0.1	0.111	0.123
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	166300	831.5	code:4	24.97	25.70	1.183	-	-	0.16	0.112	0.132
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	166300	831.5	code:8	25.25	25.70	1.109	-	-	-0.06	0.130	0.144
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	ECI1	166300	831.5	code:8	24.97	25.70	1.183	-	-	0.02	0.164	0.194
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	166300	831.5	code:8	25.25	25.70	1.109	-	-	-0.16	0.062	0.069
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	ECI1	166300	831.5	code:8	24.97	25.70	1.183	-	-	0.05	0.067	0.079
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	166300	831.5	code:8	25.25	25.70	1.109	-	-	-0.03	0.092	0.102
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	ECI1	166300	831.5	code:8	24.97	25.70	1.183	-	-	0.17	0.107	0.127
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	166300	831.5	code:8	25.25	25.70	1.109	-	-	-0.15	0.046	0.051
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	ECI1	166300	831.5	code:8	24.97	25.70	1.183	-	-	0.16	0.046	0.054
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI1	166300	831.5	code:2	21.77	22.20	1.104	-	-	0.06	0.555	0.613
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	ECI1	166300	831.5	code:2	21.66	22.20	1.132	-	-	-0.07	0.605	0.685
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI1	166300	831.5	code:2	21.77	22.20	1.104	-	-	-0.13	0.100	0.110
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	ECI1	166300	831.5	code:2	21.66	22.20	1.132	-	-	-0.01	0.113	0.128
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	166300	831.5	code:2	21.77	22.20	1.104	-	-	-0.09	0.837	0.924
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	166300	831.5	code:2	21.66	22.20	1.132	-	-	0.05	0.856	0.969
12	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	166300	831.5	code:2	21.45	22.20	1.189	-	-	0.02	0.886	1.053
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI1	166300	831.5	code:2	21.77	22.20	1.104	-	-	0.02	0.117	0.129
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	ECI1	166300	831.5	code:2	21.66	22.20	1.132	-	-	-0.13	0.137	0.155
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	ECI1	166300	831.5	code:0	21.45	22.20	1.189	-	-	0.17	0.882	1.049
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	ECI1	1413	1732.6	-	16.47	17.50	1.268	-	-	0.18	0.780	0.989
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	ECI1	1312	1712.4	-	16.43	17.50	1.279	-	-	-0.08	0.749	0.958
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	ECI1	1513	1752.6	-	16.36	17.50	1.300	-	-	-0.08	0.760	0.988
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 3	ECI1	1413	1732.6	-	16.47	17.50	1.268	-	-	0.08	0.312	0.396
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	ECI1	1413	1732.6	-	16.47	17.50	1.268	-	-	0.01	0.259	0.328
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 3	ECI1	1413	1732.6	-	16.47	17.50	1.268	-	-	0.03	0.165	0.209
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI1	1413	1732.6	-	18.82	20.00	1.312	-	-	-0.18	0.593	0.778
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI1	1413	1732.6	-	18.82	20.00	1.312	-	-	-0.15	0.112	0.147
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI1	1413	1732.6	-	18.82	20.00	1.312	-	-	0.11	0.745	0.977
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI1	1312	1712.4	-	18.79	20.00	1.321	-	-	-0.08	0.685	0.905
13	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI1	1513	1752.6	-	18.75	20.00	1.334	-	-	0.03	0.773	1.031
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI1	1413	1732.6	-	18.82	20.00	1.312	-	-	-0.17	0.138	0.181
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	20175	1732.5	code:b0	18.79	19.20	1.099	-	-	-0.17	0.465	0.511
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	20175	1732.5	code:b0	18.69	19.20	1.125	-	-	0.04	0.468	0.527
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI1	20175	1732.5	code:b0	18.79	19.20	1.099	-	-	-0.01	0.083	0.091
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI1	20175	1732.5	code:b0	18.69	19.20	1.125	-	-	-0.08	0.084	0.095
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI1	20175	1732.5	code:b0	18.79	19.20	1.099	-	-	0.05	0.563	0.619
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	20175	1732.5	code:b0	18.69	19.20	1.125	-	-	0.07	0.578	0.650
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI1	20175	1732.5	code:b0	18.79	19.20	1.099	-	-	-0.09	0.108	0.119
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI1	20175	1732.5	code:b0	18.69	19.20	1.125	-	-	-0.08	0.107	0.120
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	20175	1732.5	code:1e	18.69	19.20	1.125	-	-	0.13	0.101	0.114
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	20175	1732.5	code:b0	18.19	19.20	1.262	-	-	0.12	0.557	0.703



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	other pa																				
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	20175	1732.5	code:0	17.31	18.20	1.227	-	-	-0.15	0.567	0.696
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	20175	1732.5	code:0	17.29	18.20	1.233	-	-	0.09	0.608	0.750
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI1	20175	1732.5	code:0	17.31	18.20	1.227	-	-	-0.14	0.217	0.266
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI1	20175	1732.5	code:0	17.29	18.20	1.233	-	-	-0.19	0.218	0.269
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI1	20175	1732.5	code:0	17.31	18.20	1.227	-	-	0.01	0.171	0.210
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI1	20175	1732.5	code:0	17.29	18.20	1.233	-	-	0.06	0.175	0.216
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI1	20175	1732.5	code:0	17.31	18.20	1.227	-	-	0.02	0.107	0.131
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI1	20175	1732.5	code:0	17.29	18.20	1.233	-	-	0.12	0.112	0.138
	LTE Band 4 other pa	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	20175	1732.5	code:0	17.30	18.20	1.230	-	-	-0.16	0.585	0.720
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI1	20175	1732.5	-	24.75	25.70	1.245	-	-	0.05	0.201	0.250
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI1	20175	1732.5	-	23.99	24.70	1.178	-	-	-0.06	0.172	0.203
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI1	20175	1732.5	-	24.75	25.70	1.245	-	-	-0.13	0.126	0.157
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI1	20175	1732.5	-	23.99	24.70	1.178	-	-	-0.01	0.079	0.093
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI1	20175	1732.5	-	24.75	25.70	1.245	-	-	-0.11	0.136	0.169
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI1	20175	1732.5	-	23.99	24.70	1.178	-	-	0.19	0.090	0.106
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI1	20175	1732.5	-	24.75	25.70	1.245	-	-	-0.14	0.101	0.126
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI1	20175	1732.5	-	23.99	24.70	1.178	-	-	-0.18	0.063	0.074
	LTE Band 4 other pa	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI1	20175	1732.5	-	24.47	25.70	1.327	-	-	-0.06	0.188	0.249
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	20175	1732.5	-	17.59	19.00	1.384	-	-	-0.08	0.583	0.807
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	20175	1732.5	-	17.37	19.00	1.455	-	-	0.13	0.591	0.860
	LTE Band 4	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	ECI1	20175	1732.5	-	17.42	19.00	1.439	-	-	0.04	0.588	0.846
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	20175	1732.5	-	17.59	19.00	1.384	-	-	0.12	0.701	0.970
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	20175	1732.5	-	17.37	19.00	1.455	-	-	0.03	0.714	1.039
14	LTE Band 4	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	ECI1	20175	1732.5	-	17.42	19.00	1.439	-	-	-0.01	0.737	1.061
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI1	20175	1732.5	-	17.59	19.00	1.384	-	-	0.18	0.485	0.671
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI1	20175	1732.5	-	17.37	19.00	1.455	-	-	0.16	0.499	0.726
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI1	20175	1732.5	-	17.59	19.00	1.384	-	-	-0.1	0.542	0.750
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI1	20175	1732.5	-	17.37	19.00	1.455	-	-	0.07	0.547	0.796
	LTE Band 4 other pa	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	ECI1	20175	1732.5	-	17.59	19.00	1.384	-	-	0.18	0.672	0.930
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	132322	1745	code:b0	19.09	19.70	1.151	-	-	0.03	0.547	0.630
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	132322	1745	code:b0	19.03	19.70	1.167	-	-	-0.1	0.557	0.650
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI1	132322	1745	code:b0	19.09	19.70	1.151	-	-	0.01	0.102	0.117
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI1	132322	1745	code:b0	19.03	19.70	1.167	-	-	-0.15	0.101	0.118
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI1	132322	1745	code:b0	19.09	19.70	1.151	-	-	0.19	0.667	0.768
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	132322	1745	code:b0	19.03	19.70	1.167	-	-	0.03	0.687	0.802
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	132072	1720	code:b0	18.76	19.70	1.242	-	-	-0.15	0.618	0.768
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	132572	1770	code:b0	18.84	19.70	1.219	-	-	0.03	0.692	0.844
	LTE Band 66	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 2	ECI1	132322	1745	code:b0	18.76	19.70	1.242	-	-	-0.15	0.679	0.843
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI1	132322	1745	code:b0	19.09	19.70	1.151	-	-	0.11	0.126	0.145
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI1	132322	1745	code:b0	19.03	19.70	1.167	-	-	-0.08	0.126	0.147
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	132572	1770	code:1e	18.84	19.70	1.219	-	-	-0.17	0.137	0.167
	LTE Band 66 other pa	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	132572	1770	code:b0	18.91	19.70	1.199	-	-	-0.08	0.687	0.824
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	132322	1745	code:0	16.86	17.70	1.213	-	-	0.17	0.600	0.728
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	132072	1720	code:0	16.67	17.70	1.268	-	-	-0.15	0.621	0.787
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	132572	1770	code:0	16.73	17.70	1.250	-	-	0.05	0.656	0.820
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	132322	1745	code:0	16.82	17.70	1.225	-	-	-0.04	0.654	0.801
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	ECI1	132322	1745	code:0	16.68	17.70	1.265	-	-	0.11	0.614	0.777
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI1	132322	1745	code:0	16.86	17.70	1.213	-	-	-0.02	0.228	0.277
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI1	132322	1745	code:0	16.82	17.70	1.225	-	-	0.1	0.232	0.284
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI1	132322	1745	code:0	16.86	17.70	1.213	-	-	0.04	0.185	0.224
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI1	132322	1745	code:0	16.82	17.70	1.225	-	-	0.13	0.183	0.224
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI1	132322	1745	code:0	16.86	17.70	1.213	-	-	-0.18	0.114	0.138
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI1	132322	1745	code:0	16.82	17.70	1.225	-	-	-0.11	0.112	0.137
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	132572	1770	code:0	16.83	17.70	1.222	-	-	-0.16	0.606	0.741



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	other pa																				
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI1	132322	1745	-	24.63	25.70	1.279	-	-	0.02	0.206	0.263
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI1	132322	1745	-	23.78	24.70	1.236	-	-	0.16	0.129	0.159
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI1	132322	1745	-	24.63	25.70	1.279	-	-	0.01	0.134	0.171
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI1	132322	1745	-	23.78	24.70	1.236	-	-	-0.04	0.083	0.103
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI1	132322	1745	-	24.63	25.70	1.279	-	-	0.13	0.145	0.185
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI1	132322	1745	-	23.78	24.70	1.236	-	-	0.12	0.092	0.114
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI1	132322	1745	-	24.63	25.70	1.279	-	-	0.07	0.110	0.141
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI1	132322	1745	-	23.78	24.70	1.236	-	-	0.08	0.068	0.084
	LTE Band 66 other pa	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI1	132322	1745	-	24.54	25.70	1.306	-	-	0.19	0.187	0.244
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	132322	1745	-	17.00	18.50	1.413	-	-	0.12	0.517	0.731
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	132322	1745	-	16.82	18.50	1.472	-	-	0.08	0.519	0.764
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	132322	1745	-	17.00	18.50	1.413	-	-	-0.17	0.626	0.885
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	132072	1720	-	16.85	18.50	1.462	-	-	0.13	0.601	0.879
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	132572	1770	-	16.88	18.50	1.452	-	-	0.12	0.597	0.867
15	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	132322	1745	-	16.82	18.50	1.472	-	-	-0.17	0.627	0.923
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	132072	1720	-	16.71	18.50	1.510	-	-	0.03	0.588	0.888
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	132572	1770	-	16.78	18.50	1.486	-	-	0.18	0.603	0.896
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	ECI1	132322	1745	-	16.65	18.50	1.531	-	-	0.16	0.592	0.906
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI1	132322	1745	-	17.00	18.50	1.413	-	-	-0.03	0.436	0.616
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI1	132322	1745	-	16.82	18.50	1.472	-	-	0.14	0.442	0.651
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI1	132322	1745	-	17.00	18.50	1.413	-	-	0.11	0.498	0.704
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI1	132322	1745	-	16.82	18.50	1.472	-	-	-0.05	0.504	0.742
	LTE Band 66 other pa	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	132322	1745	-	17.09	18.50	1.384	-	-	0.18	0.588	0.814
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	349000	1745	code:b0	19.16	19.70	1.132	-	-	-0.18	0.724	0.820
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	349000	1745	code:b0	19.05	19.70	1.161	-	-	-0.04	0.712	0.827
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	349000	1745	code:b0	18.85	19.70	1.216	-	-	-0.15	0.736	0.895
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI1	349000	1745	code:b0	19.16	19.70	1.132	-	-	0.11	0.137	0.155
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI1	349000	1745	code:b0	19.05	19.70	1.161	-	-	-0.02	0.131	0.152
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	349000	1745	code:b0	19.16	19.70	1.132	-	-	0.1	0.879	0.995
16	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	349000	1745	code:b0	19.05	19.70	1.161	-	-	0.06	0.915	1.062
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	349000	1745	code:b0	18.85	19.70	1.216	-	-	0.04	0.872	1.060
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI1	349000	1745	code:b0	19.16	19.70	1.132	-	-	0.13	0.179	0.203
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI1	349000	1745	code:b0	19.05	19.70	1.161	-	-	-0.18	0.181	0.210
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	349000	1745	code:1e	19.05	19.70	1.161	-	-	-0.11	0.168	0.195
	FR1 n66 other pa	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	349000	1745	code:b0	18.98	19.70	1.180	-	-	-0.16	0.854	1.008
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	349000	1745	code:0	17.04	17.70	1.164	-	-	0.16	0.636	0.740
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	349000	1745	code:0	16.87	17.70	1.211	-	-	0.06	0.711	0.861
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	349000	1745	code:0	16.69	17.70	1.262	-	-	0.13	0.656	0.828
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI1	349000	1745	code:0	17.04	17.70	1.164	-	-	-0.18	0.230	0.268
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI1	349000	1745	code:0	16.87	17.70	1.211	-	-	0.02	0.266	0.322
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI1	349000	1745	code:0	17.04	17.70	1.164	-	-	0.16	0.187	0.218
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI1	349000	1745	code:0	16.87	17.70	1.211	-	-	-0.03	0.212	0.257
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI1	349000	1745	code:0	17.04	17.70	1.164	-	-	0.07	0.115	0.134
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI1	349000	1745	code:0	16.87	17.70	1.211	-	-	0.1	0.119	0.144
	FR1 n66 other pa	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	349000	1745	code:0	16.91	17.70	1.199	-	-	0.01	0.645	0.773
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI1	349000	1745	-	24.86	25.70	1.213	-	-	0.07	0.187	0.227
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI1	349000	1745	-	24.70	25.70	1.259	-	-	-0.04	0.204	0.257
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI1	349000	1745	-	24.86	25.70	1.213	-	-	-0.18	0.103	0.125
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI1	349000	1745	-	24.70	25.70	1.259	-	-	-0.13	0.117	0.147
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI1	349000	1745	-	24.86	25.70	1.213	-	-	-0.13	0.133	0.161
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI1	349000	1745	-	24.70	25.70	1.259	-	-	0.12	0.147	0.185
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI1	349000	1745	-	24.86	25.70	1.213	-	-	-0.04	0.089	0.108
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI1	349000	1745	-	24.70	25.70	1.259	-	-	-0.15	0.095	0.120
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI1	349000	1745	-	24.44	25.70	1.337	-	-	-0.09	0.191	0.255



	other pa																				
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	349000	1745	-	16.92	18.50	1.439	-	-	0.08	0.581	0.836
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	349000	1745	-	16.85	18.50	1.462	-	-	0.01	0.598	0.874
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	349000	1745	-	16.82	18.50	1.472	-	-	0.03	0.611	0.899
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	349000	1745	-	16.92	18.50	1.439	-	-	-0.08	0.655	0.943
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	349000	1745	-	16.85	18.50	1.462	-	-	-0.08	0.683	0.999
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	349000	1745	-	16.82	18.50	1.472	-	-	0.1	0.656	0.966
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI1	349000	1745	-	16.92	18.50	1.439	-	-	-0.18	0.436	0.627
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI1	349000	1745	-	16.85	18.50	1.462	-	-	0.1	0.456	0.667
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI1	349000	1745	-	16.92	18.50	1.439	-	-	0.08	0.521	0.750
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI1	349000	1745	-	16.85	18.50	1.462	-	-	-0.17	0.546	0.798
	FR1 n66 other pa	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	349000	1745	-	17.12	18.50	1.374	-	-	0.14	0.604	0.830
1900MHz																					
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 3	ECI1	661	1880	-	20.79	22.00	1.321	-	-	0.05	0.684	0.904
17	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 3	ECI1	512	1850.2	-	20.70	22.00	1.349	-	-	0.07	0.787	1.062
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 3	ECI1	810	1909.8	-	20.73	22.00	1.340	-	-	0.13	0.674	0.903
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 3	ECI1	661	1880	-	20.79	22.00	1.321	-	-	0.06	0.242	0.320
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 3	ECI1	661	1880	-	20.79	22.00	1.321	-	-	-0.09	0.239	0.316
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 3	ECI1	661	1880	-	20.79	22.00	1.321	-	-	-0.08	0.119	0.157
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 2	ECI1	661	1880	-	21.68	23.00	1.355	-	-	-0.17	0.572	0.775
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 2	ECI1	661	1880	-	21.68	23.00	1.355	-	-	0.17	0.114	0.154
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 2	ECI1	661	1880	-	21.68	23.00	1.355	-	-	0.09	0.750	1.016
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 2	ECI1	512	1850.2	-	21.61	23.00	1.377	-	-	0.01	0.661	0.910
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 2	ECI1	810	1909.8	-	21.63	23.00	1.371	-	-	0.1	0.687	0.942
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 2	ECI1	661	1880	-	21.68	23.00	1.355	-	-	-0.05	0.171	0.232
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	ECI1	9400	1880	-	17.56	18.50	1.242	-	-	0.08	0.792	0.984
18	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	ECI1	9262	1852.4	-	17.52	18.50	1.253	-	-	0.08	0.838	1.050
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	ECI1	9538	1907.6	-	17.49	18.50	1.262	-	-	-0.08	0.730	0.921
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 3	ECI1	9400	1880	-	17.56	18.50	1.242	-	-	0.01	0.292	0.363
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	ECI1	9400	1880	-	17.56	18.50	1.242	-	-	0.03	0.253	0.314
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 3	ECI1	9400	1880	-	17.56	18.50	1.242	-	-	-0.08	0.135	0.168
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI1	9400	1880	-	18.87	20.00	1.297	-	-	0.1	0.628	0.815
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI1	9262	1852.4	-	18.83	20.00	1.309	-	-	-0.18	0.571	0.747
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI1	9538	1907.6	-	18.75	20.00	1.334	-	-	0.1	0.583	0.778
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI1	9400	1880	-	18.87	20.00	1.297	-	-	0.12	0.101	0.131
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI1	9400	1880	-	18.87	20.00	1.297	-	-	0.18	0.730	0.947
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI1	9262	1852.4	-	18.83	20.00	1.309	-	-	0.08	0.658	0.861
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI1	9538	1907.6	-	18.75	20.00	1.334	-	-	-0.17	0.661	0.882
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI1	9400	1880	-	18.87	20.00	1.297	-	-	-0.03	0.163	0.211
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	18900	1880	code:a1	18.85	19.50	1.161	-	-	-0.04	0.481	0.558
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	18900	1880	code:a1	18.65	19.50	1.216	-	-	-0.08	0.481	0.585
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI1	18900	1880	code:a1	18.85	19.50	1.161	-	-	0.17	0.074	0.086
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI1	18900	1880	code:a1	18.65	19.50	1.216	-	-	0.18	0.074	0.090
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI1	18900	1880	code:a1	18.85	19.50	1.161	-	-	-0.04	0.557	0.647
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	18900	1880	code:a1	18.65	19.50	1.216	-	-	0.02	0.579	0.704
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI1	18900	1880	code:a1	18.85	19.50	1.161	-	-	-0.03	0.125	0.145
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI1	18900	1880	code:a1	18.65	19.50	1.216	-	-	0.08	0.125	0.152
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	18900	1880	code:83	18.65	19.50	1.216	-	-	-0.07	0.394	0.479
	LTE Band 2 other pa	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	18900	1880	code:a1	18.31	19.50	1.315	-	-	0.05	0.562	0.739
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	18900	1880	code:2	16.37	17.70	1.358	-	-	-0.17	0.656	0.891
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	18700	1860	code:2	16.21	17.70	1.409	-	-	-0.1	0.612	0.862
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	19100	1900	code:2	16.32	17.70	1.374	-	-	0.18	0.662	0.910
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	18900	1880	code:2	16.32	17.70	1.374	-	-	-0.17	0.658	0.904
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	18700	1860	code:2	16.16	17.70	1.426	-	-	-0.04	0.623	0.888
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	19100	1900	code:2	16.20	17.70	1.413	-	-	0.09	0.668	0.944



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	LTE Band 2	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	ECI1	18900	1880	code:2	16.06	17.70	1.459	-	-	-0.05	0.640	0.934
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI1	18900	1880	code:2	16.37	17.70	1.358	-	-	-0.02	0.247	0.335
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI1	18900	1880	code:2	16.32	17.70	1.374	-	-	-0.13	0.249	0.342
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI1	18900	1880	code:2	16.37	17.70	1.358	-	-	-0.01	0.207	0.281
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI1	18900	1880	code:2	16.32	17.70	1.374	-	-	-0.09	0.208	0.286
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI1	18900	1880	code:2	16.37	17.70	1.358	-	-	0.05	0.107	0.145
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI1	18900	1880	code:2	16.32	17.70	1.374	-	-	0.02	0.107	0.147
	LTE Band 2 other pa	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	19100	1900	code:2	16.24	17.70	1.400	-	-	-0.13	0.466	0.652
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI1	18900	1880		23.89	25.50	1.449	-	-	-0.06	0.156	0.226
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI1	18900	1880		22.97	24.50	1.422	-	-	0.08	0.098	0.139
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI1	18900	1880		23.89	25.50	1.449	-	-	-0.03	0.067	0.097
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI1	18900	1880		22.97	24.50	1.422	-	-	0.07	0.042	0.060
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI1	18900	1880		23.89	25.50	1.449	-	-	-0.12	0.124	0.180
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI1	18900	1880		22.97	24.50	1.422	-	-	-0.03	0.078	0.111
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI1	18900	1880		23.89	25.50	1.449	-	-	0.02	0.063	0.091
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI1	18900	1880		22.97	24.50	1.422	-	-	-	0.000	0.000
	LTE Band 2 other pa	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI1	18900	1880		23.86	25.50	1.459	-	-	0.02	0.111	0.162
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	18900	1880		17.19	18.50	1.352	-	-	-0.01	0.612	0.827
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	18700	1860		17.07	18.50	1.390	-	-	-0.11	0.599	0.833
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	19100	1900		17.01	18.50	1.409	-	-	0.04	0.600	0.845
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	18900	1880		17.05	18.50	1.396	-	-	0.16	0.610	0.852
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	18700	1860		16.89	18.50	1.449	-	-	0.17	0.600	0.869
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	19100	1900		16.99	18.50	1.416	-	-	0.06	0.602	0.852
	LTE Band 2	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	ECI1	18900	1880		16.92	18.50	1.439	-	-	-0.18	0.608	0.875
19	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	18900	1880		17.19	18.50	1.352	-	-	-0.07	0.716	0.968
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	18700	1860		17.07	18.50	1.390	-	-	0.06	0.680	0.945
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	19100	1900		17.01	18.50	1.409	-	-	0.18	0.685	0.965
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	18900	1880		17.05	18.50	1.396	-	-	-0.19	0.674	0.941
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	18700	1860		16.89	18.50	1.449	-	-	0.17	0.661	0.958
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	19100	1900		16.99	18.50	1.416	-	-	-0.16	0.674	0.954
	LTE Band 2	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	ECI1	18900	1880		16.92	18.50	1.439	-	-	-0.08	0.671	0.966
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI1	18900	1880		17.19	18.50	1.352	-	-	0.03	0.482	0.652
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI1	18900	1880		17.05	18.50	1.396	-	-	0.12	0.475	0.663
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI1	18900	1880		17.19	18.50	1.352	-	-	-0.17	0.545	0.737
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI1	18900	1880		17.05	18.50	1.396	-	-	-0.07	0.541	0.755
	LTE Band 2 other pa	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	18900	1880		17.52	18.50	1.253	-	-	-0.02	0.715	0.896
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	26340	1880	code:a1	19.16	20.00	1.213	-	-	-0.11	0.530	0.643
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	26340	1880	code:a1	19.07	20.00	1.239	-	-	-0.16	0.541	0.670
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI1	26340	1880	code:a1	19.16	20.00	1.213	-	-	0.11	0.082	0.099
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI1	26340	1880	code:a1	19.07	20.00	1.239	-	-	-0.05	0.085	0.105
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI1	26340	1880	code:a1	19.16	20.00	1.213	-	-	-0.08	0.615	0.746
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	26340	1880	code:a1	19.07	20.00	1.239	-	-	0.18	0.623	0.772
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI1	26340	1880	code:a1	19.16	20.00	1.213	-	-	0.02	0.134	0.163
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI1	26340	1880	code:a1	19.07	20.00	1.239	-	-	0.07	0.138	0.171
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	26340	1880	code:83	19.07	20.00	1.239	-	-	0.16	0.433	0.536
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	26340	1880	code:0	17.59	18.70	1.291	-	-	0.13	0.792	1.022
20	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	26140	1860	code:0	17.43	18.70	1.340	-	-	0.07	0.798	1.069
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	26590	1905	code:0	17.46	18.70	1.330	-	-	0.02	0.782	1.040
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	26340	1880	code:0	17.46	18.70	1.330	-	-	0.16	0.795	1.057
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	26140	1860	code:0	17.40	18.70	1.349	-	-	-0.02	0.786	1.060
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	26590	1905	code:0	17.39	18.70	1.352	-	-	-0.03	0.774	1.046
	LTE Band 25	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	ECI1	26340	1880	code:0	17.41	18.70	1.346	-	-	0.07	0.791	1.065
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI1	26340	1880	code:0	17.59	18.70	1.291	-	-	-0.03	0.298	0.385
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI1	26340	1880	code:0	17.46	18.70	1.330	-	-	0.01	0.299	0.398
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI1	26340	1880	code:0	17.59	18.70	1.291	-	-	-0.01	0.251	0.324



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LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI1	26340	1880	code:0	17.46	18.70	1.330	-	-	-0.06	0.250	0.333	
LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI1	26340	1880	code:0	17.59	18.70	1.291	-	-	-0.04	0.134	0.173	
LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI1	26340	1880	code:0	17.46	18.70	1.330	-	-	-0.09	0.128	0.170	
LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI1	26340	1880	-	23.82	25.50	1.472	-	-	-0.03	0.142	0.209	
LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI1	26340	1880	-	23.02	24.50	1.406	-	-	0.14	0.089	0.125	
LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI1	26340	1880	-	23.82	25.50	1.472	-	-	-0.1	0.072	0.106	
LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI1	26340	1880	-	23.02	24.50	1.406	-	-	0.05	0.044	0.062	
LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI1	26340	1880	-	23.82	25.50	1.472	-	-	0.11	0.123	0.181	
LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI1	26340	1880	-	23.02	24.50	1.406	-	-	0.07	0.071	0.100	
LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI1	26340	1880	-	23.82	25.50	1.472	-	-	0.15	0.063	0.093	
LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI1	26340	1880	-	23.02	24.50	1.406	-	-	-0.05	0.042	0.059	
LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	26340	1880	-	17.69	19.00	1.352	-	-	0.11	0.650	0.879	
LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	26140	1860	-	17.64	19.00	1.368	-	-	-0.05	0.672	0.919	
LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	26590	1905	-	17.59	19.00	1.384	-	-	-0.01	0.613	0.848	
LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	26340	1880	-	17.60	19.00	1.380	-	-	-0.14	0.638	0.880	
LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	26140	1860	-	17.59	19.00	1.384	-	-	-0.15	0.690	0.955	
LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	26590	1905	-	17.40	19.00	1.445	-	-	-0.12	0.593	0.857	
LTE Band 25	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	ECI1	26340	1880	-	17.45	19.00	1.429	-	-	-0.17	0.629	0.899	
LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	26340	1880	-	17.69	19.00	1.352	-	-	0.08	0.721	0.975	
LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	26140	1860	-	17.64	19.00	1.368	-	-	0.01	0.772	1.056	
LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	26590	1905	-	17.59	19.00	1.384	-	-	0.02	0.680	0.941	
LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	26340	1880	-	17.60	19.00	1.380	-	-	-0.11	0.722	0.996	
LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	26140	1860	-	17.59	19.00	1.384	-	-	0.01	0.772	1.068	
LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	26590	1905	-	17.40	19.00	1.445	-	-	0.09	0.671	0.970	
LTE Band 25	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	ECI1	26340	1880	-	17.45	19.00	1.429	-	-	0.1	0.709	1.013	
LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI1	26340	1880	-	17.69	19.00	1.352	-	-	-0.04	0.515	0.696	
LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI1	26340	1880	-	17.60	19.00	1.380	-	-	0.15	0.501	0.691	
LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI1	26340	1880	-	17.69	19.00	1.352	-	-	0.09	0.572	0.773	
LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI1	26340	1880	-	17.60	19.00	1.380	-	-	0.08	0.560	0.773	
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	376000	1880	code:a1	18.57	19.50	1.239	-	-	-0.15	0.738	0.914	
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	372000	1860	code:a1	18.50	19.50	1.259	-	-	-0.06	0.717	0.903	
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	380000	1900	code:a1	18.54	19.50	1.247	-	-	-0.14	0.779	0.971	
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	376000	1880	code:a1	18.51	19.50	1.256	-	-	-0.19	0.707	0.888	
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	372000	1860	code:a1	18.43	19.50	1.279	-	-	0.01	0.740	0.946	
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	380000	1900	code:a1	18.34	19.50	1.306	-	-	0.06	0.645	0.842	
FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	376000	1880	code:a1	18.27	19.50	1.327	-	-	0.02	0.718	0.953	
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI1	376000	1880	code:a1	18.57	19.50	1.239	-	-	0.12	0.115	0.142	
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI1	376000	1880	code:a1	18.51	19.50	1.256	-	-	-0.16	0.108	0.136	
21	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	376000	1880	code:a1	18.57	19.50	1.239	-	-	0.07	0.880	1.090
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	372000	1860	code:a1	18.50	19.50	1.259	-	-	-0.12	0.820	1.032	
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	380000	1900	code:a1	18.54	19.50	1.247	-	-	0.07	0.844	1.052	
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	376000	1880	code:a1	18.51	19.50	1.256	-	-	-0.02	0.822	1.032	
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	372000	1860	code:a1	18.43	19.50	1.279	-	-	-0.05	0.805	1.030	
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	380000	1900	code:a1	18.34	19.50	1.306	-	-	-0.13	0.742	0.969	
FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	376000	1880	code:a1	18.27	19.50	1.327	-	-	0.08	0.821	1.089	
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI1	376000	1880	code:a1	18.57	19.50	1.239	-	-	0.16	0.196	0.243	
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI1	376000	1880	code:a1	18.51	19.50	1.256	-	-	0.01	0.180	0.226	
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	376000	1880	code:83	18.57	19.50	1.239	-	-	-0.16	0.602	0.746	
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	376000	1880	code:2	17.06	18.20	1.300	-	-	0.04	0.833	1.083	
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	372000	1860	code:2	16.98	18.20	1.324	-	-	0.05	0.812	1.075	
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	380000	1900	code:2	17.02	18.20	1.312	-	-	0.06	0.807	1.059	
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	376000	1880	code:2	16.90	18.20	1.349	-	-	-0.08	0.780	1.052	
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	372000	1860	code:2	16.88	18.20	1.355	-	-	-0.09	0.757	1.026	
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	380000	1900	code:2	16.76	18.20	1.393	-	-	-0.08	0.771	1.074	
FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	376000	1880	code:2	16.89	18.20	1.352	-	-	0.16	0.785	1.061	
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI1	376000	1880	code:2	17.06	18.20	1.300	-	-	0.05	0.298	0.387	



FCC SAR Test Report

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FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI1	376000	1880	code:2	16.90	18.20	1.349	-	-	0.05	0.294	0.397
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI1	376000	1880	code:2	17.06	18.20	1.300	-	-	-0.03	0.261	0.339
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI1	376000	1880	code:2	16.90	18.20	1.349	-	-	-0.15	0.240	0.324
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI1	376000	1880	code:2	17.06	18.20	1.300	-	-	0.02	0.138	0.179
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI1	376000	1880	code:2	16.90	18.20	1.349	-	-	0.07	0.128	0.173
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI1	376000	1880	-	24.03	25.50	1.403	-	-	-0.08	0.136	0.191
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI1	376000	1880	-	23.87	25.50	1.455	-	-	-0.08	0.128	0.186
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI1	376000	1880	-	24.03	25.50	1.403	-	-	-0.13	0.073	0.102
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI1	376000	1880	-	23.87	25.50	1.455	-	-	0.01	0.076	0.111
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI1	376000	1880	-	24.03	25.50	1.403	-	-	-0.11	0.123	0.173
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI1	376000	1880	-	23.87	25.50	1.455	-	-	0.03	0.117	0.170
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI1	376000	1880	-	24.03	25.50	1.403	-	-	-0.05	0.070	0.098
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI1	376000	1880	-	23.87	25.50	1.455	-	-	0.14	0.074	0.108
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	376000	1880	-	17.53	19.00	1.403	-	-	0.11	0.683	0.958
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	372000	1860	-	17.39	19.00	1.449	-	-	-0.05	0.697	1.010
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	380000	1900	-	17.45	19.00	1.429	-	-	0.18	0.618	0.883
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	376000	1880	-	17.36	19.00	1.459	-	-	0.14	0.605	0.883
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	372000	1860	-	17.28	19.00	1.486	-	-	-0.17	0.634	0.942
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	380000	1900	-	17.30	19.00	1.479	-	-	0.17	0.563	0.833
FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	376000	1880	-	17.14	19.00	1.535	-	-	-0.05	0.576	0.884
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	376000	1880	-	17.53	19.00	1.403	-	-	0.01	0.731	1.026
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	372000	1860	-	17.39	19.00	1.449	-	-	-0.09	0.739	1.071
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	380000	1900	-	17.45	19.00	1.429	-	-	-0.17	0.658	0.940
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	376000	1880	-	17.36	19.00	1.459	-	-	0.04	0.668	0.975
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	372000	1860	-	17.28	19.00	1.486	-	-	-0.01	0.694	1.031
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	380000	1900	-	17.30	19.00	1.479	-	-	-0.08	0.615	0.910
FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	376000	1880	-	17.14	19.00	1.535	-	-	0.05	0.626	0.961
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI1	376000	1880	-	17.53	19.00	1.403	-	-	0.06	0.439	0.616
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI1	376000	1880	-	17.36	19.00	1.459	-	-	-0.09	0.408	0.595
FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI1	376000	1880	-	17.53	19.00	1.403	-	-	-0.08	0.512	0.718
FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI1	376000	1880	-	17.36	19.00	1.459	-	-	0.13	0.472	0.689
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	376500	1882.5	code:a1	19.12	20.00	1.225	-	-	0.1	0.738	0.904
FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	376500	1882.5	code:a1	19.05	20.00	1.245	-	-	-0.04	0.727	0.905
FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	376500	1882.5	code:a1	18.76	20.00	1.330	-	-	-0.01	0.761	1.012
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI1	376500	1882.5	code:a1	19.12	20.00	1.225	-	-	-0.07	0.111	0.136
FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI1	376500	1882.5	code:a1	19.05	20.00	1.245	-	-	-0.11	0.113	0.141
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	376500	1882.5	code:a1	19.12	20.00	1.225	-	-	0.04	0.871	1.067
FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	376500	1882.5	code:a1	19.05	20.00	1.245	-	-	-0.06	0.852	1.061
FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	376500	1882.5	code:a1	18.76	20.00	1.330	-	-	-0.15	0.801	1.065
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI1	376500	1882.5	code:a1	19.12	20.00	1.225	-	-	0.03	0.189	0.232
FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI1	376500	1882.5	code:a1	19.05	20.00	1.245	-	-	-0.13	0.178	0.222
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	376500	1882.5	code:83	19.12	20.00	1.225	-	-	0.16	0.613	0.751
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	376500	1882.5	code:0	16.95	18.20	1.334	-	-	0.09	0.683	0.911
FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	376500	1882.5	code:0	16.85	18.20	1.365	-	-	-0.12	0.636	0.868
FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	376500	1882.5	code:0	16.66	18.20	1.426	-	-	0.03	0.613	0.874
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI1	376500	1882.5	code:0	16.95	18.20	1.334	-	-	-0.16	0.258	0.344
FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI1	376500	1882.5	code:0	16.85	18.20	1.365	-	-	-0.02	0.226	0.308
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI1	376500	1882.5	code:0	16.95	18.20	1.334	-	-	0.15	0.226	0.301
FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI1	376500	1882.5	code:0	16.85	18.20	1.365	-	-	-0.09	0.211	0.288
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI1	376500	1882.5	code:0	16.95	18.20	1.334	-	-	0.11	0.117	0.156
FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI1	376500	1882.5	code:0	16.85	18.20	1.365	-	-	-0.05	0.103	0.141
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI1	376500	1882.5	-	24.11	25.50	1.377	-	-	-0.01	0.129	0.178
FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI1	376500	1882.5	-	23.83	25.50	1.469	-	-	-0.12	0.120	0.176
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI1	376500	1882.5	-	24.11	25.50	1.377	-	-	0.07	0.069	0.095
FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI1	376500	1882.5	-	23.83	25.50	1.469	-	-	0.09	0.061	0.090
FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI1	376500	1882.5	-	24.11	25.50	1.377	-	-	0.04	0.120	0.165



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	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI1	376500	1882.5	-	23.83	25.50	1.469	-	-	0.11	0.111	0.163
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI1	376500	1882.5	-	24.11	25.50	1.377	-	-	-0.13	0.068	0.094
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI1	376500	1882.5	-	23.83	25.50	1.469	-	-	0.12	0.059	0.087
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	376500	1882.5	-	17.99	19.50	1.416	-	-	0.12	0.706	1.000
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	376500	1882.5	-	17.82	19.50	1.472	-	-	0.03	0.615	0.905
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	376500	1882.5	-	17.61	19.50	1.545	-	-	0.18	0.623	0.963
22	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	376500	1882.5	-	17.99	19.50	1.416	-	-	0.01	0.770	1.090
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	376500	1882.5	-	17.82	19.50	1.472	-	-	0.16	0.706	1.039
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	376500	1882.5	-	17.61	19.50	1.545	-	-	-0.1	0.683	1.055
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI1	376500	1882.5	-	17.99	19.50	1.416	-	-	0.07	0.544	0.770
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI1	376500	1882.5	-	17.82	19.50	1.472	-	-	0.18	0.499	0.735
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI1	376500	1882.5	-	17.99	19.50	1.416	-	-	-0.1	0.633	0.896
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI1	376500	1882.5	-	17.82	19.50	1.472	-	-	0.01	0.552	0.813
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI1	376500	1882.5	-	17.61	19.50	1.545	-	-	0.06	0.544	0.840
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	21100	2535	code:b0	17.99	18.70	1.178	-	-	-0.05	0.760	0.895
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	20850	2510	code:b0	17.78	18.70	1.236	-	-	0.18	0.684	0.845
23	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	21350	2560	code:b0	17.88	18.70	1.208	-	-	0.17	0.856	1.034
	LTE Band 7C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	21350+ 21152	2560+ 2540.2	code:b0	17.67	18.70	1.268	-	-	0.1	0.811	1.028
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	21100	2535	code:b0	17.90	18.70	1.202	-	-	0.1	0.781	0.939
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	20850	2510	code:b0	17.64	18.70	1.276	-	-	-0.05	0.699	0.892
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	21350	2560	code:b0	17.74	18.70	1.247	-	-	-0.01	0.827	1.031
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	ECI1	21100	2535	code:b0	17.66	18.70	1.271	-	-	0.02	0.790	1.004
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI1	21100	2535	code:b0	17.99	18.70	1.178	-	-	0.07	0.059	0.070
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI1	21100	2535	code:b0	17.90	18.70	1.202	-	-	-0.18	0.060	0.072
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI1	21100	2535	code:b0	17.99	18.70	1.178	-	-	0.06	0.380	0.448
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	21100	2535	code:b0	17.90	18.70	1.202	-	-	0.15	0.386	0.464
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI1	21100	2535	code:b0	17.99	18.70	1.178	-	-	-0.06	0.088	0.104
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI1	21100	2535	code:b0	17.90	18.70	1.202	-	-	-0.15	0.091	0.109
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	21100	2535	code:e	15.81	16.70	1.227	-	-	0.11	0.690	0.847
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 3	ECI1	21100+ 21298	2535+ 2554.8	code:e	15.44	16.70	1.337	-	-	-0.18	0.617	0.825
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	20850	2510	code:e	15.66	16.70	1.271	-	-	-0.1	0.614	0.780
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	21350	2560	code:e	15.69	16.70	1.262	-	-	0.07	0.623	0.786
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	21100	2535	code:e	15.74	16.70	1.247	-	-	0.01	0.670	0.835
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	20850	2510	code:e	15.53	16.70	1.309	-	-	0.18	0.628	0.822
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	21350	2560	code:e	15.57	16.70	1.297	-	-	-0.1	0.637	0.826
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	ECI1	21100	2535	code:e	15.45	16.70	1.334	-	-	0.01	0.611	0.815
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI1	21100	2535	code:e	15.81	16.70	1.227	-	-	-0.13	0.314	0.385
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI1	21100	2535	code:e	15.74	16.70	1.247	-	-	0.12	0.309	0.385
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI1	21100	2535	code:e	15.81	16.70	1.227	-	-	-0.11	0.233	0.286
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI1	21100	2535	code:e	15.74	16.70	1.247	-	-	0.17	0.252	0.314
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI1	21100	2535	code:e	15.81	16.70	1.227	-	-	-0.16	0.124	0.152
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI1	21100	2535	code:e	15.74	16.70	1.247	-	-	-0.17	0.128	0.160
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI1	21100	2535	-	24.66	25.70	1.271	-	-	-0.11	0.170	0.216
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 4	ECI1	21100+ 21298	2535+ 2554.8	-	24.53	25.70	1.309	-	-	0.1	0.153	0.200
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI1	21100	2535	-	23.83	24.70	1.222	-	-	0.17	0.107	0.131
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI1	21100	2535	-	24.66	25.70	1.271	-	-	-0.16	0.097	0.123
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI1	21100	2535	-	23.83	24.70	1.222	-	-	-0.17	0.061	0.075
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI1	21100	2535	-	24.66	25.70	1.271	-	-	0.11	0.167	0.212
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI1	21100	2535	-	23.83	24.70	1.222	-	-	-0.05	0.099	0.121
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI1	21100	2535	-	24.66	25.70	1.271	-	-	-0.01	0.058	0.074
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI1	21100	2535	-	23.83	24.70	1.222	-	-	-	0.000	0.000
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	21100	2535	-	15.06	16.50	1.393	-	-	0.08	0.577	0.804
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	20850	2510	-	14.98	16.50	1.419	-	-	0.01	0.571	0.810
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	21350	2560	-	15.02	16.50	1.406	-	-	0.03	0.575	0.808



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	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	21100	2535	-	14.95	16.50	1.429	-	-	-0.08	0.563	0.805
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	20850	2510	-	14.93	16.50	1.435	-	-	-0.08	0.557	0.799
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	21350	2560	-	14.90	16.50	1.445	-	-	0.1	0.564	0.815
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	ECI1	21100	2535	-	14.87	16.50	1.455	-	-	-0.18	0.562	0.818
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	21100	2535	-	15.06	16.50	1.393	-	-	0.1	0.686	0.956
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	20850	2510	-	14.98	16.50	1.419	-	-	0.12	0.703	0.998
	LTE Band 7C	20M	QPSK	1	99	-	Right Tilted	0mm	Ant 5	ECI1	20850+21048	2510+2529.8	-	14.91	16.50	1.442	-	-	-0.08	0.685	0.988
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	21350	2560	-	15.02	16.50	1.406	-	-	0.08	0.667	0.938
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	21100	2535	-	14.95	16.50	1.429	-	-	-0.17	0.676	0.966
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	20850	2510	-	14.93	16.50	1.435	-	-	0.08	0.683	0.980
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	21350	2560	-	14.90	16.50	1.445	-	-	-0.03	0.650	0.939
	LTE Band 7	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	ECI1	21100	2535	-	14.87	16.50	1.455	-	-	0.14	0.670	0.975
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI1	21100	2535	-	15.06	16.50	1.393	-	-	0.11	0.398	0.554
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI1	21100	2535	-	14.95	16.50	1.429	-	-	-0.05	0.393	0.562
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI1	21100	2535	-	15.06	16.50	1.393	-	-	0.18	0.460	0.641
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI1	21100	2535	-	14.95	16.50	1.429	-	-	0.14	0.453	0.647
24	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	38000	2595	code:b0	20.71	21.20	1.119	62.9	1.006	0.06	0.948	1.067
	LTE Band 38C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 2	ECI1	37901+38099	2585.1+2604.9	code:b0	20.07	21.20	1.297	62.9	1.006	-0.08	0.804	1.049
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	37850	2580	code:b0	20.52	21.20	1.169	62.9	1.006	0.13	0.901	1.060
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	38150	2610	code:b0	20.62	21.20	1.143	62.9	1.006	0.12	0.925	1.064
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	38000	2595	code:b0	20.67	21.20	1.130	62.9	1.006	0.01	0.937	1.065
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	37850	2580	code:b0	20.61	21.20	1.146	62.9	1.006	0.03	0.918	1.058
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	38150	2610	code:b0	20.58	21.20	1.153	62.9	1.006	0.18	0.901	1.045
	LTE Band 38	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	ECI1	38000	2595	code:b0	20.57	21.20	1.156	62.9	1.006	0.03	0.915	1.064
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI1	38000	2595	code:b0	20.71	21.20	1.119	62.9	1.006	-0.08	0.065	0.073
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI1	38000	2595	code:b0	20.67	21.20	1.130	62.9	1.006	-0.08	0.065	0.074
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI1	38000	2595	code:b0	20.71	21.20	1.119	62.9	1.006	0.1	0.435	0.490
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	38000	2595	code:b0	20.67	21.20	1.130	62.9	1.006	-0.18	0.433	0.492
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI1	38000	2595	code:b0	20.71	21.20	1.119	62.9	1.006	0.1	0.113	0.127
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI1	38000	2595	code:b0	20.67	21.20	1.130	62.9	1.006	0.12	0.111	0.126
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	38000	2595	code:e	18.09	19.20	1.291	62.9	1.006	0.03	0.732	0.951
	LTE Band 38C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 3	ECI1	37901+38099	2585.1+2604.9	code:e	18.01	19.20	1.315	62.9	1.006	0.03	0.694	0.918
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	37850	2580	code:e	17.97	19.20	1.327	62.9	1.006	0.16	0.704	0.940
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	38150	2610	code:e	17.98	19.20	1.324	62.9	1.006	-0.1	0.705	0.939
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	38000	2595	code:e	17.94	19.20	1.337	62.9	1.006	-0.05	0.698	0.939
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	37850	2580	code:e	17.73	19.20	1.403	62.9	1.006	0.07	0.668	0.943
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	38150	2610	code:e	17.82	19.20	1.374	62.9	1.006	0.18	0.680	0.940
	LTE Band 38	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	ECI1	38000	2595	code:e	17.74	19.20	1.400	62.9	1.006	0.15	0.662	0.932
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI1	38000	2595	code:e	18.09	19.20	1.291	62.9	1.006	0.14	0.363	0.471
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI1	38000	2595	code:e	17.94	19.20	1.337	62.9	1.006	-0.01	0.360	0.484
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI1	38000	2595	code:e	18.09	19.20	1.291	62.9	1.006	-0.12	0.321	0.417
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI1	38000	2595	code:e	17.94	19.20	1.337	62.9	1.006	0.07	0.325	0.437
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI1	38000	2595	code:e	18.09	19.20	1.291	62.9	1.006	0.09	0.149	0.194
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI1	38000	2595	code:e	17.94	19.20	1.337	62.9	1.006	0.04	0.150	0.202
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI1	38000	2595	-	24.68	25.70	1.265	62.9	1.006	-0.15	0.061	0.078
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI1	38000	2595	-	23.85	24.70	1.216	62.9	1.006	-0.12	0.048	0.059
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI1	38000	2595	-	24.68	25.70	1.265	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI1	38000	2595	-	23.85	24.70	1.216	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI1	38000	2595	-	24.68	25.70	1.265	62.9	1.006	0.01	0.080	0.102
	LTE Band 38C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 4	ECI1	37901+38099	2585.1+2604.9	-	24.43	25.70	1.340	62.9	1.006	0.01	0.071	0.096
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI1	38000	2595	-	23.85	24.70	1.216	62.9	1.006	0.02	0.059	0.072
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI1	38000	2595	-	24.68	25.70	1.265	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI1	38000	2595	-	23.85	24.70	1.216	62.9	1.006	-0.01	0.039	0.048
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	38000	2595	-	18.84	20.00	1.306	62.9	1.006	-0.12	0.636	0.836
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	37850	2580	-	18.81	20.00	1.315	62.9	1.006	-0.1	0.641	0.848



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LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	38150	2610	-	18.74	20.00	1.337	62.9	1.006	0.01	0.637	0.857	
LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	38000	2595	-	18.75	20.00	1.334	62.9	1.006	0.07	0.640	0.859	
LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	37850	2580	-	18.70	20.00	1.349	62.9	1.006	-0.15	0.642	0.871	
LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	38150	2610	-	18.71	20.00	1.346	62.9	1.006	0.19	0.651	0.882	
LTE Band 38	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	ECI1	38000	2595	-	18.71	20.00	1.346	62.9	1.006	0.07	0.627	0.849	
LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	38000	2595	-	18.84	20.00	1.306	62.9	1.006	-0.08	0.729	0.958	
LTE Band 38C	20M	QPSK	1	99	-	Right Tilted	0mm	Ant 5	ECI1	37901+38099	2585.1+2604.9	-	18.67	20.00	1.358	62.9	1.006	0.08	0.683	0.933	
LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	37850	2580	-	18.81	20.00	1.315	62.9	1.006	-0.18	0.718	0.950	
LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	38150	2610	-	18.74	20.00	1.337	62.9	1.006	0.03	0.711	0.956	
LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	38000	2595	-	18.75	20.00	1.334	62.9	1.006	-0.02	0.712	0.956	
LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	37850	2580	-	18.70	20.00	1.349	62.9	1.006	-0.15	0.702	0.953	
LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	38150	2610	-	18.71	20.00	1.346	62.9	1.006	-0.15	0.701	0.949	
LTE Band 38	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	ECI1	38000	2595	-	18.71	20.00	1.346	62.9	1.006	-0.05	0.704	0.953	
LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI1	38000	2595	-	18.84	20.00	1.306	62.9	1.006	-0.13	0.421	0.553	
LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI1	38000	2595	-	18.75	20.00	1.334	62.9	1.006	0.08	0.420	0.564	
LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI1	38000	2595	-	18.84	20.00	1.306	62.9	1.006	0.16	0.464	0.610	
LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI1	38000	2595	-	18.75	20.00	1.334	62.9	1.006	0.01	0.464	0.623	
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	40620	2593	code:b0	20.26	20.70	1.107	62.9	1.006	0.08	0.827	0.921	
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	39750	2506	code:b0	20.13	20.70	1.140	62.9	1.006	-0.03	0.631	0.724	
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	40185	2549.5	code:b0	20.19	20.70	1.125	62.9	1.006	0.14	0.736	0.833	
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	41055	2636.5	code:b0	20.11	20.70	1.146	62.9	1.006	0.11	0.844	0.973	
25	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI1	41490	2680	code:b0	20.05	20.70	1.161	62.9	1.006	0.05	0.853	0.996
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	40620	2593	code:b0	20.23	20.70	1.114	62.9	1.006	0.18	0.816	0.914	
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	39750	2506	code:b0	20.17	20.70	1.130	62.9	1.006	-0.17	0.634	0.721	
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	40185	2549.5	code:b0	20.16	20.70	1.132	62.9	1.006	0.17	0.744	0.847	
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	41055	2636.5	code:b0	20.14	20.70	1.138	62.9	1.006	-0.05	0.847	0.970	
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI1	41490	2680	code:b0	20.06	20.70	1.159	62.9	1.006	0.01	0.839	0.978	
LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	ECI1	40620	2593	code:b0	20.19	20.70	1.125	62.9	1.006	0.1	0.819	0.927	
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI1	40620	2593	code:b0	20.26	20.70	1.107	62.9	1.006	-0.17	0.057	0.063	
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI1	40620	2593	code:b0	20.23	20.70	1.114	62.9	1.006	0.04	0.057	0.064	
LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI1	40620	2593	code:b0	20.26	20.70	1.107	62.9	1.006	-0.01	0.388	0.432	
LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI1	40620	2593	code:b0	20.23	20.70	1.114	62.9	1.006	0.13	0.378	0.424	
LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI1	40620	2593	code:b0	20.26	20.70	1.107	62.9	1.006	0.03	0.103	0.115	
LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI1	40620	2593	code:b0	20.23	20.70	1.114	62.9	1.006	0.18	0.098	0.110	
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	40620	2593	code:e	17.58	18.70	1.294	62.9	1.006	0.04	0.629	0.819	
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	39750	2506	code:e	17.43	18.70	1.340	62.9	1.006	-0.03	0.575	0.775	
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	40185	2549.5	code:e	17.45	18.70	1.334	62.9	1.006	0.02	0.606	0.813	
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	41055	2636.5	code:e	17.35	18.70	1.365	62.9	1.006	0.12	0.582	0.799	
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI1	41490	2680	code:e	17.36	18.70	1.361	62.9	1.006	0.02	0.557	0.763	
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	40620	2593	code:e	17.50	18.70	1.318	62.9	1.006	-0.03	0.592	0.785	
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	39750	2506	code:e	17.22	18.70	1.406	62.9	1.006	-0.1	0.571	0.808	
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	40185	2549.5	code:e	17.20	18.70	1.413	62.9	1.006	0.05	0.560	0.796	
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	41055	2636.5	code:e	17.28	18.70	1.387	62.9	1.006	0.14	0.573	0.800	
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI1	41490	2680	code:e	17.24	18.70	1.400	62.9	1.006	0.07	0.537	0.756	
LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	ECI1	40620	2593	code:e	17.25	18.70	1.396	62.9	1.006	0.15	0.521	0.732	
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI1	40620	2593	code:e	17.58	18.70	1.294	62.9	1.006	-0.05	0.314	0.409	
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI1	40620	2593	code:e	17.50	18.70	1.318	62.9	1.006	-0.08	0.306	0.406	
LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI1	40620	2593	code:e	17.58	18.70	1.294	62.9	1.006	-0.08	0.259	0.337	
LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI1	40620	2593	code:e	17.50	18.70	1.318	62.9	1.006	-0.13	0.270	0.358	
LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI1	40620	2593	code:e	17.58	18.70	1.294	62.9	1.006	0.01	0.122	0.159	
LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI1	40620	2593	code:e	17.50	18.70	1.318	62.9	1.006	-0.11	0.128	0.170	
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI1	40620	2593	-	24.64	25.70	1.276	62.9	1.006	0.09	0.057	0.073	
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI1	40620	2593	-	23.85	25.00	1.303	62.9	1.006	0.1	0.047	0.062	
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI1	40620	2593	-	24.64	25.70	1.276	62.9	1.006	-	n/a	n/a	
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI1	40620	2593	-	23.85	25.00	1.303	62.9	1.006	-	n/a	n/a	
LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI1	40620	2593	-	24.64	25.70	1.276	62.9	1.006	0.09	0.069	0.089	



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LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI1	40620	2593	-	23.85	25.00	1.303	62.9	1.006	-0.16	0.055	0.072
LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI1	40620	2593	-	24.64	25.70	1.276	62.9	1.006	-	n/a	n/a
LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI1	40620	2593	-	23.85	25.00	1.303	62.9	1.006	-	n/a	n/a
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	40620	2593	-	18.16	19.50	1.361	62.9	1.006	0.08	0.555	0.760
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	39750	2506	-	18.06	19.50	1.393	62.9	1.006	0.03	0.559	0.783
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	40185	2549.5	-	18.04	19.50	1.400	62.9	1.006	-0.08	0.565	0.796
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	41055	2636.5	-	18.14	19.50	1.368	62.9	1.006	-0.08	0.519	0.714
LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI1	41490	2680	-	18.12	19.50	1.374	62.9	1.006	0.1	0.517	0.715
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	40620	2593	-	18.06	19.50	1.393	62.9	1.006	-0.18	0.550	0.771
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	39750	2506	-	17.90	19.50	1.445	62.9	1.006	0.12	0.560	0.814
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	40185	2549.5	-	17.89	19.50	1.449	62.9	1.006	0.08	0.553	0.806
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	41055	2636.5	-	17.88	19.50	1.452	62.9	1.006	-0.17	0.516	0.754
LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI1	41490	2680	-	17.90	19.50	1.445	62.9	1.006	-0.03	0.507	0.737
LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	ECI1	40620	2593	-	18.01	19.50	1.409	62.9	1.006	0.14	0.546	0.774
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	40620	2593	-	18.16	19.50	1.361	62.9	1.006	0.08	0.703	0.963
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	39750	2506	-	18.06	19.50	1.393	62.9	1.006	-0.05	0.680	0.953
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	40185	2549.5	-	18.04	19.50	1.400	62.9	1.006	0.18	0.649	0.914
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	41055	2636.5	-	18.14	19.50	1.368	62.9	1.006	0.14	0.548	0.754
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI1	41490	2680	-	18.12	19.50	1.374	62.9	1.006	-0.17	0.539	0.745
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	40620	2593	-	18.06	19.50	1.393	62.9	1.006	0.17	0.625	0.876
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	39750	2506	-	17.90	19.50	1.445	62.9	1.006	0.01	0.655	0.952
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	40185	2549.5	-	17.89	19.50	1.449	62.9	1.006	0.1	0.642	0.936
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	41055	2636.5	-	17.88	19.50	1.452	62.9	1.006	-0.17	0.563	0.822
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI1	41490	2680	-	17.90	19.50	1.445	62.9	1.006	0.04	0.543	0.789
LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	ECI1	40620	2593	-	18.01	19.50	1.409	62.9	1.006	-0.01	0.583	0.826
LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI1	40620	2593	-	18.16	19.50	1.361	62.9	1.006	-0.08	0.365	0.500
LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI1	40620	2593	-	18.06	19.50	1.393	62.9	1.006	0.05	0.357	0.500
LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI1	40620	2593	-	18.16	19.50	1.361	62.9	1.006	0.06	0.408	0.559
LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI1	40620	2593	-	18.06	19.50	1.393	62.9	1.006	-0.09	0.386	0.541
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	507000	2535	code:b0	18.28	18.70	1.102	-	-	0.04	0.834	0.919
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	507000	2535	code:b0	18.09	18.70	1.151	-	-	-0.13	0.791	0.910
FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	ECI1	507000	2535	code:b0	17.88	18.70	1.208	-	-	0.06	0.725	0.876
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI1	507000	2535	code:b0	18.28	18.70	1.102	-	-	-0.03	0.052	0.057
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	ECI1	507000	2535	code:b0	18.09	18.70	1.151	-	-	-0.03	0.057	0.066
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	507000	2535	code:b0	18.28	18.70	1.102	-	-	0.08	0.338	0.372
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	ECI1	507000	2535	code:b0	18.09	18.70	1.151	-	-	-0.07	0.391	0.450
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI1	507000	2535	code:b0	18.28	18.70	1.102	-	-	0.05	0.084	0.093
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	ECI1	507000	2535	code:b0	18.09	18.70	1.151	-	-	-0.11	0.091	0.105
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	507000	2535	code:e	16.29	17.20	1.233	-	-	0.11	0.860	1.060
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	507000	2535	code:e	16.14	17.20	1.276	-	-	-0.08	0.812	1.036
FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	ECI1	507000	2535	code:e	15.94	17.20	1.337	-	-	-0.04	0.787	1.052
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI1	507000	2535	code:e	16.29	17.20	1.233	-	-	-0.08	0.405	0.499
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	ECI1	507000	2535	code:e	16.14	17.20	1.276	-	-	0.17	0.429	0.547
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI1	507000	2535	code:e	16.29	17.20	1.233	-	-	0.18	0.284	0.350
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	ECI1	507000	2535	code:e	16.14	17.20	1.276	-	-	-0.04	0.320	0.408
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI1	507000	2535	code:e	16.29	17.20	1.233	-	-	-0.08	0.207	0.255
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	ECI1	507000	2535	code:e	16.14	17.20	1.276	-	-	-0.13	0.178	0.227
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI1	507000	2535	-	24.58	25.70	1.294	-	-	-0.18	0.143	0.185
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	ECI1	507000	2535	-	24.50	25.70	1.318	-	-	-0.03	0.157	0.207
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI1	507000	2535	-	24.58	25.70	1.294	-	-	-0.04	0.125	0.162
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	ECI1	507000	2535	-	24.50	25.70	1.318	-	-	-0.09	0.140	0.185
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI1	507000	2535	-	24.58	25.70	1.294	-	-	0.18	0.172	0.223
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	ECI1	507000	2535	-	24.50	25.70	1.318	-	-	0.11	0.189	0.249
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI1	507000	2535	-	24.58	25.70	1.294	-	-	0.07	0.060	0.078
FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	ECI1	507000	2535	-	24.50	25.70	1.318	-	-	-0.03	0.058	0.076
FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	507000	2535	-	15.97	17.50	1.422	-	-	-0.15	0.624	0.887



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	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	507000	2535	-	15.83	17.50	1.469	-	-	0.19	0.622	0.914
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	ECI1	507000	2535	-	15.77	17.50	1.489	-	-	0.07	0.632	0.941
26	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	507000	2535	-	15.97	17.50	1.422	-	-	-0.05	0.756	1.075
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	507000	2535	-	15.83	17.50	1.469	-	-	-0.18	0.731	1.074
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	ECI1	507000	2535	-	15.77	17.50	1.489	-	-	0.03	0.715	1.065
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI1	507000	2535	-	15.97	17.50	1.422	-	-	-0.15	0.423	0.602
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	ECI1	507000	2535	-	15.83	17.50	1.469	-	-	-0.15	0.426	0.626
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI1	507000	2535	-	15.97	17.50	1.422	-	-	0.11	0.529	0.752
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	ECI1	507000	2535	-	15.83	17.50	1.469	-	-	-0.08	0.479	0.704
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	ECI1	519000	2595	code:b0	17.69	18.20	1.125	-	-	0.03	0.916	1.031
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	ECI1	519000	2595	code:b0	17.69	18.20	1.125	-	-	0.07	0.881	0.991
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	ECI1	519000	2595	code:b0	17.39	18.20	1.205	-	-	-0.18	0.841	1.013
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	ECI1	519000	2595	code:b0	17.69	18.20	1.125	-	-	0.03	0.063	0.071
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	ECI1	519000	2595	code:b0	17.69	18.20	1.125	-	-	-0.15	0.065	0.073
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	ECI1	519000	2595	code:b0	17.69	18.20	1.125	-	-	-0.15	0.416	0.468
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	ECI1	519000	2595	code:b0	17.69	18.20	1.125	-	-	0.11	0.408	0.459
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	ECI1	519000	2595	code:b0	17.69	18.20	1.125	-	-	-0.08	0.101	0.114
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	ECI1	519000	2595	code:b0	17.69	18.20	1.125	-	-	-0.17	0.093	0.105
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI1	519000	2595	code:e	16.24	17.20	1.247	-	-	0.1	0.824	1.028
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI1	519000	2595	code:e	16.13	17.20	1.279	-	-	0.16	0.792	1.013
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI1	519000	2595	code:e	15.91	17.20	1.346	-	-	-0.1	0.756	1.018
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	ECI1	519000	2595	code:e	16.24	17.20	1.247	-	-	0.07	0.394	0.491
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	ECI1	519000	2595	code:e	16.13	17.20	1.279	-	-	0.18	0.365	0.467
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	ECI1	519000	2595	code:e	16.24	17.20	1.247	-	-	-0.1	0.358	0.446
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	ECI1	519000	2595	code:e	16.13	17.20	1.279	-	-	0.01	0.382	0.489
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	ECI1	519000	2595	code:e	16.24	17.20	1.247	-	-	-0.15	0.169	0.211
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	ECI1	519000	2595	code:e	16.13	17.20	1.279	-	-	0.19	0.153	0.196
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI1	519000	2595	-	24.69	25.70	1.262	-	-	-0.11	0.175	0.221
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI1	519000	2595	-	24.43	25.70	1.340	-	-	-0.12	0.176	0.236
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	ECI1	519000	2595	-	24.69	25.70	1.262	-	-	0.03	0.106	0.134
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	ECI1	519000	2595	-	24.43	25.70	1.340	-	-	-0.16	0.102	0.137
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	ECI1	519000	2595	-	24.69	25.70	1.262	-	-	-0.02	0.199	0.251
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	ECI1	519000	2595	-	24.43	25.70	1.340	-	-	0.15	0.212	0.284
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	ECI1	519000	2595	-	24.69	25.70	1.262	-	-	-0.09	0.060	0.076
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	ECI1	519000	2595	-	24.43	25.70	1.340	-	-	0.11	0.060	0.080
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI1	519000	2595	-	16.55	18.00	1.396	-	-	0.08	0.667	0.931
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI1	519000	2595	-	16.50	18.00	1.413	-	-	0.01	0.626	0.885
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI1	519000	2595	-	16.21	18.00	1.510	-	-	0.03	0.632	0.954
27	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI1	519000	2595	-	16.55	18.00	1.396	-	-	-0.02	0.766	1.069
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI1	519000	2595	-	16.50	18.00	1.413	-	-	-0.08	0.692	0.978
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI1	519000	2595	-	16.21	18.00	1.510	-	-	-0.08	0.683	1.031
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	ECI1	519000	2595	-	16.55	18.00	1.396	-	-	0.1	0.419	0.585
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	ECI1	519000	2595	-	16.50	18.00	1.413	-	-	-0.18	0.406	0.574
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	ECI1	519000	2595	-	16.55	18.00	1.396	-	-	0.1	0.481	0.671
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	ECI1	519000	2595	-	16.50	18.00	1.413	-	-	0.12	0.441	0.623
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	ECI1	518598	2592.99	-	16.93	17.50	1.140	-	-	-0.08	0.750	0.855
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	ECI1	518598	2592.99	-	16.80	17.50	1.175	-	-	0.05	0.813	0.955
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	ECI1	518598	2592.99	-	16.66	17.50	1.213	-	-	0.06	0.705	0.855
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	ECI1	518598	2592.99	-	16.93	17.50	1.140	-	-	-0.09	0.048	0.055
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	ECI1	518598	2592.99	-	16.80	17.50	1.175	-	-	-0.08	0.053	0.062
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	ECI1	518598	2592.99	-	16.93	17.50	1.140	-	-	0.13	0.352	0.401
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	ECI1	518598	2592.99	-	16.80	17.50	1.175	-	-	0.12	0.337	0.396
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	ECI1	518598	2592.99	-	16.93	17.50	1.140	-	-	0.03	0.083	0.095
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	ECI1	518598	2592.99	-	16.80	17.50	1.175	-	-	0.18	0.077	0.090
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	ECI1	518598	2592.99	-	19.67	20.50	1.211	50	1.000	0.02	0.839	1.016
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI1	518598	2592.99	-	15.67	17.00	1.358	-	-	0.14	0.609	0.827



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	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI1	518598	2592.99	-	15.56	17.00	1.393	-	-	-0.17	0.570	0.794
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI1	518598	2592.99	-	15.39	17.00	1.449	-	-	0.17	0.534	0.774
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	ECI1	518598	2592.99	-	15.67	17.00	1.358	-	-	-0.05	0.277	0.376
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	ECI1	518598	2592.99	-	15.56	17.00	1.393	-	-	0.01	0.258	0.359
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	ECI1	518598	2592.99	-	15.67	17.00	1.358	-	-	0.1	0.214	0.291
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	ECI1	518598	2592.99	-	15.56	17.00	1.393	-	-	-0.17	0.260	0.362
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	ECI1	518598	2592.99	-	15.67	17.00	1.358	-	-	0.04	0.115	0.156
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	ECI1	518598	2592.99	-	15.56	17.00	1.393	-	-	-0.01	0.104	0.145
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	ECI1	518598	2592.99	-	18.72	20.00	1.343	50	1.000	0.19	0.634	0.851
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI1	518598	2592.99	-	23.38	24.50	1.294	-	-	-0.08	0.122	0.158
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	ECI1	518598	2592.99	-	23.36	24.50	1.300	-	-	-0.13	0.133	0.173
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	ECI1	518598	2592.99	-	23.38	24.50	1.294	-	-	-0.13	0.072	0.093
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	ECI1	518598	2592.99	-	23.36	24.50	1.300	-	-	0.06	0.074	0.096
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	ECI1	518598	2592.99	-	23.38	24.50	1.294	-	-	-0.03	0.161	0.208
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	ECI1	518598	2592.99	-	23.36	24.50	1.300	-	-	-0.03	0.141	0.183
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	ECI1	518598	2592.99	-	23.38	24.50	1.294	-	-	0.08	0.045	0.058
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	ECI1	518598	2592.99	-	23.36	24.50	1.300	-	-	-0.07	0.041	0.053
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	ECI1	518598	2592.99	-	26.03	27.50	1.403	50	1.000	0.05	0.144	0.202
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI1	518598	2592.99	-	16.03	17.50	1.403	-	-	0.08	0.627	0.880
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI1	518598	2592.99	-	15.87	17.50	1.455	-	-	-0.17	0.559	0.813
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	ECI1	518598	2592.99	-	15.75	17.50	1.496	-	-	-0.03	0.543	0.812
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI1	518598	2592.99	-	16.03	17.50	1.403	-	-	0.14	0.729	1.023
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI1	518598	2592.99	-	15.87	17.50	1.455	-	-	0.11	0.619	0.901
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI1	518598	2592.99	-	15.75	17.50	1.496	-	-	-0.05	0.594	0.889
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	ECI1	518598	2592.99	-	16.03	17.50	1.403	-	-	0.18	0.370	0.519
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	ECI1	518598	2592.99	-	15.87	17.50	1.455	-	-	0.14	0.353	0.514
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	ECI1	518598	2592.99	-	16.03	17.50	1.403	-	-	-0.17	0.445	0.624
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	ECI1	518598	2592.99	-	15.87	17.50	1.455	-	-	0.17	0.385	0.560
28	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	ECI1	518598	2592.99	-	18.90	20.50	1.445	50	1.000	0.06	0.756	1.092
3500MHz																					
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	ECI1	42590	3500	-	-	16.70	1.122	62.9	1.006	-0.08	0.364	0.411
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	ECI1	42590	3500	-	-	16.70	1.156	62.9	1.006	-0.03	0.361	0.420
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	ECI1	42590	3500	-	-	16.70	1.122	62.9	1.006	-0.06	0.381	0.430
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	ECI1	42590	3500	-	-	16.70	1.156	62.9	1.006	0.18	0.385	0.448
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI1	42590	3500	-	-	16.70	1.122	62.9	1.006	0.01	0.797	0.900
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI1	42190	3460	-	-	16.70	1.153	62.9	1.006	0.03	0.810	0.940
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI1	42990	3540	-	-	16.70	1.167	62.9	1.006	-0.01	0.748	0.878
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI1	42590	3500	-	-	16.70	1.156	62.9	1.006	-0.18	0.831	0.966
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI1	42190	3460	-	-	16.70	1.189	62.9	1.006	-0.05	0.817	0.977
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI1	42990	3540	-	-	16.70	1.208	62.9	1.006	-0.14	0.741	0.900
	LTE Band 42	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 6	ECI1	42590	3500	-	-	16.70	1.208	62.9	1.006	0.06	0.824	1.001
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI1	42590	3500	-	-	16.70	1.122	62.9	1.006	-0.13	0.811	0.915
29	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI1	42190	3460	-	-	16.70	1.153	62.9	1.006	0.05	0.881	1.022
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI1	42990	3540	-	-	16.70	1.167	62.9	1.006	-0.05	0.780	0.916
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI1	42590	3500	-	-	16.70	1.156	62.9	1.006	-0.15	0.807	0.938
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI1	42190	3460	-	-	16.70	1.189	62.9	1.006	-0.11	0.851	1.018
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI1	42990	3540	-	-	16.70	1.208	62.9	1.006	0.04	0.766	0.931
	LTE Band 42	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 6	ECI1	42590	3500	-	-	16.70	1.208	62.9	1.006	0.08	0.826	1.004
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI1	42590	3500	-	-	22.00	1.303	62.9	1.006	0.06	0.683	0.895
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI1	42190	3460	-	-	22.00	1.340	62.9	1.006	-0.04	0.608	0.820
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI1	42990	3540	-	-	22.00	1.318	62.9	1.006	-0.08	0.642	0.851
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI1	42590	3500	-	-	22.00	1.321	62.9	1.006	-0.13	0.624	0.829
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI1	42190	3460	-	-	22.00	1.368	62.9	1.006	-0.13	0.610	0.839
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI1	42990	3540	-	-	22.00	1.380	62.9	1.006	0.06	0.626	0.869
	LTE Band 42	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 7	ECI1	42590	3500	-	-	22.00	1.371	62.9	1.006	-0.03	0.612	0.844



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	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	ECI1	42590	3500	-	-	22.00	1.303	62.9	1.006	-0.03	0.253	0.332
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	ECI1	42590	3500	-	-	22.00	1.321	62.9	1.006	0.08	0.249	0.331
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI1	42590	3500	-	-	22.00	1.303	62.9	1.006	-0.07	0.278	0.364
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI1	42590	3500	-	-	22.00	1.321	62.9	1.006	0.05	0.296	0.393
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	ECI1	42590	3500	-	-	22.00	1.303	62.9	1.006	-0.11	0.089	0.117
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	ECI1	42590	3500	-	-	22.00	1.321	62.9	1.006	-0.12	0.083	0.110
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	ECI1	42590	3500	-	-	19.50	1.306	62.9	1.006	-0.03	0.176	0.231
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	ECI1	42590	3500	-	-	19.50	1.327	62.9	1.006	0.1	0.175	0.234
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 8	ECI1	42590	3500	-	-	19.50	1.306	62.9	1.006	-0.05	0.079	0.104
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 8	ECI1	42590	3500	-	-	19.50	1.327	62.9	1.006	-0.03	0.080	0.107
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	ECI1	42590	3500	-	-	19.50	1.306	62.9	1.006	0.09	0.659	0.866
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	ECI1	42190	3460	-	-	19.50	1.340	62.9	1.006	-0.02	0.606	0.817
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	ECI1	42990	3540	-	-	19.50	1.371	62.9	1.006	0.08	0.668	0.921
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	ECI1	42590	3500	-	-	19.50	1.327	62.9	1.006	-0.17	0.657	0.877
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	ECI1	42190	3460	-	-	19.50	1.337	62.9	1.006	-0.12	0.602	0.810
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	ECI1	42990	3540	-	-	19.50	1.365	62.9	1.006	0.04	0.671	0.921
	LTE Band 42	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 8	ECI1	42590	3500	-	-	19.50	1.352	62.9	1.006	-0.08	0.658	0.895
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	ECI1	42590	3500	-	-	19.50	1.306	62.9	1.006	-0.16	0.223	0.293
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 8	ECI1	42590	3500	-	-	19.50	1.327	62.9	1.006	0.18	0.227	0.303
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI1	42590	3500	-	-	25.00	1.358	62.9	1.006	0.03	0.631	0.862
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI1	42190	3460	-	-	25.00	1.374	62.9	1.006	-0.06	0.648	0.896
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI1	42990	3540	-	-	25.00	1.390	62.9	1.006	-0.16	0.563	0.787
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	ECI1	42590	3500	-	-	24.00	1.297	62.9	1.006	-0.02	0.513	0.669
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	ECI1	42190	3460	-	-	24.00	1.334	62.9	1.006	0.15	0.543	0.729
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	ECI1	42990	3540	-	-	24.00	1.334	62.9	1.006	-0.09	0.463	0.621
	LTE Band 42	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 9	ECI1	42590	3500	-	-	24.00	1.409	62.9	1.006	0.11	0.505	0.716
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	ECI1	42590	3500	-	-	25.00	1.358	62.9	1.006	-0.05	0.451	0.616
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	ECI1	42190	3460	-	-	25.00	1.374	62.9	1.006	-0.08	0.475	0.657
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	ECI1	42990	3540	-	-	25.00	1.390	62.9	1.006	0.16	0.382	0.534
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	ECI1	42590	3500	-	-	24.00	1.297	62.9	1.006	0.05	0.362	0.472
	LTE Band 42	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 9	ECI1	42590	3500	-	-	24.00	1.409	62.9	1.006	0.05	0.354	0.502
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	ECI1	42590	3500	-	-	25.00	1.358	62.9	1.006	-0.03	0.231	0.316
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	ECI1	42590	3500	-	-	24.00	1.297	62.9	1.006	-0.15	0.187	0.244
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	ECI1	42590	3500	-	-	25.00	1.358	62.9	1.006	0.02	0.232	0.317
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	ECI1	42590	3500	-	-	24.00	1.297	62.9	1.006	0.07	0.184	0.240
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	ECI1	55830	3609	-	-	17.50	1.169	62.9	1.006	-0.08	0.310	0.365
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	ECI1	55830	3609	-	-	17.50	1.189	62.9	1.006	0.04	0.300	0.359
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	ECI1	55830	3609	-	-	17.50	1.169	62.9	1.006	-0.07	0.317	0.373
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	ECI1	55830	3609	-	-	17.50	1.189	62.9	1.006	0.13	0.317	0.379
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI1	55830	3609	-	-	17.50	1.169	62.9	1.006	-0.07	0.763	0.897
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI1	55340	3560	-	-	17.50	1.233	62.9	1.006	0.11	0.800	0.992
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI1	56150	3641	-	-	17.50	1.194	62.9	1.006	-0.12	0.716	0.860
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	ECI1	56640	3690	-	-	17.50	1.199	62.9	1.006	-0.08	0.696	0.840
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI1	55830	3609	-	-	17.50	1.189	62.9	1.006	-0.16	0.745	0.891
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI1	55340	3560	-	-	17.50	1.250	62.9	1.006	0.17	0.785	0.987
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI1	56150	3641	-	-	17.50	1.242	62.9	1.006	-0.02	0.715	0.893
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	ECI1	56640	3690	-	-	17.50	1.219	62.9	1.006	0.04	0.667	0.818
	LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 6	ECI1	55830	3609	-	-	17.50	1.253	62.9	1.006	-0.18	0.739	0.932
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI1	55830	3609	-	-	17.50	1.169	62.9	1.006	-0.07	0.773	0.909
30	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI1	55340	3560	-	-	17.50	1.233	62.9	1.006	0.01	0.810	1.005
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI1	56150	3641	-	-	17.50	1.194	62.9	1.006	-0.14	0.720	0.865
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	ECI1	56640	3690	-	-	17.50	1.199	62.9	1.006	-0.07	0.684	0.825
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI1	55830	3609	-	-	17.50	1.189	62.9	1.006	0.1	0.756	0.904
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI1	55340	3560	-	-	17.50	1.250	62.9	1.006	0.05	0.791	0.995
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI1	56150	3641	-	-	17.50	1.242	62.9	1.006	0.18	0.725	0.906
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	ECI1	56640	3690	-	-	17.50	1.219	62.9	1.006	0.12	0.667	0.818



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	LTE Band 48	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 6	ECI1	55830	3609	-	-	17.50	1.253	62.9	1.006	0.02	0.752	0.948
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI1	55830	3609	-	-	20.00	1.309	62.9	1.006	0.16	0.453	0.597
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI1	55830	3609	-	-	20.00	1.321	62.9	1.006	0.02	0.430	0.571
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	ECI1	55830	3609	-	-	20.00	1.309	62.9	1.006	0.01	0.191	0.252
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	ECI1	55830	3609	-	-	20.00	1.321	62.9	1.006	-0.01	0.191	0.254
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI1	55830	3609	-	-	20.00	1.309	62.9	1.006	-0.06	0.216	0.284
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI1	55830	3609	-	-	20.00	1.321	62.9	1.006	-0.04	0.228	0.303
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	ECI1	55830	3609	-	-	20.00	1.309	62.9	1.006	-0.09	0.066	0.087
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	ECI1	55830	3609	-	-	20.00	1.321	62.9	1.006	-0.17	0.065	0.086
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	ECI1	55830	3609	-	-	20.00	1.303	62.9	1.006	0.04	0.147	0.193
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	ECI1	55830	3609	-	-	20.00	1.337	62.9	1.006	-0.12	0.147	0.198
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 8	ECI1	55830	3609	-	-	20.00	1.303	62.9	1.006	0.15	0.069	0.090
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 8	ECI1	55830	3609	-	-	20.00	1.337	62.9	1.006	-0.07	0.069	0.093
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	ECI1	55830	3609	-	-	20.00	1.303	62.9	1.006	0.04	0.516	0.676
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	ECI1	55340	3560	-	-	20.00	1.337	62.9	1.006	0.04	0.504	0.678
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	ECI1	56150	3641	-	-	20.00	1.330	62.9	1.006	0.1	0.515	0.689
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	ECI1	56640	3690	-	-	20.00	1.343	62.9	1.006	0.1	0.534	0.721
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	ECI1	55830	3609	-	-	20.00	1.337	62.9	1.006	0.08	0.514	0.691
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	ECI1	55340	3560	-	-	20.00	1.403	62.9	1.006	0.07	0.509	0.718
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	ECI1	56150	3641	-	-	20.00	1.380	62.9	1.006	0.1	0.504	0.700
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	ECI1	56640	3690	-	-	20.00	1.355	62.9	1.006	-0.09	0.524	0.714
	LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 8	ECI1	55830	3609	-	-	20.00	1.374	62.9	1.006	0.02	0.506	0.699
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	ECI1	55830	3609	-	-	20.00	1.303	62.9	1.006	0.01	0.206	0.270
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 8	ECI1	55830	3609	-	-	20.00	1.337	62.9	1.006	0.02	0.205	0.276
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI1	55830	3609	-	-	23.50	1.324	62.9	1.006	0.09	0.294	0.392
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	ECI1	55830	3609	-	-	22.50	1.262	62.9	1.006	-0.08	0.234	0.297
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	ECI1	55830	3609	-	-	23.50	1.324	62.9	1.006	-0.05	0.228	0.304
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	ECI1	55830	3609	-	-	22.50	1.262	62.9	1.006	-0.03	0.181	0.230
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	ECI1	55830	3609	-	-	23.50	1.324	62.9	1.006	0.17	0.124	0.165
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	ECI1	55830	3609	-	-	22.50	1.262	62.9	1.006	-0.14	0.089	0.113
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	ECI1	55830	3609	-	-	23.50	1.324	62.9	1.006	0.06	0.119	0.159
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	ECI1	55830	3609	-	-	22.50	1.262	62.9	1.006	-0.06	0.094	0.119
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI1	641666	3624.99	-	-	14.50	1.156	-	-	-0.1	0.327	0.378
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI1	641666	3624.99	-	-	14.50	1.189	-	-	0.18	0.308	0.366
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI1	641666	3624.99	-	-	14.50	1.156	-	-	-0.17	0.363	0.420
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI1	641666	3624.99	-	-	14.50	1.189	-	-	-0.04	0.350	0.416
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	641666	3624.99	-	-	14.50	1.156	-	-	-0.05	0.822	0.950
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	638000	3570	-	-	14.50	1.199	-	-	0.01	0.875	1.049
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	645332	3679.98	-	-	14.50	1.159	-	-	-0.13	0.820	0.950
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	641666	3624.99	-	-	14.50	1.189	-	-	-0.01	0.766	0.911
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	638000	3570	-	-	14.50	1.199	-	-	-0.09	0.827	0.992
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	645332	3679.98	-	-	14.50	1.236	-	-	0.05	0.750	0.927
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	641666	3624.99	-	-	14.50	1.256	-	-	0.02	0.799	1.004
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	641666	3624.99	-	-	14.50	1.156	-	-	-0.13	0.803	0.928
31	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	638000	3570	-	-	14.50	1.199	-	-	0.02	0.892	1.070
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	645332	3679.98	-	-	14.50	1.159	-	-	0.03	0.771	0.894
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	641666	3624.99	-	-	14.50	1.189	-	-	-0.04	0.789	0.938
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	638000	3570	-	-	14.50	1.199	-	-	-0.15	0.843	1.011
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	645332	3679.98	-	-	14.50	1.236	-	-	0.11	0.730	0.902
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	641666	3624.99	-	-	14.50	1.256	-	-	-0.02	0.799	1.004
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	641666	3624.99	-	-	18.50	1.222	-	-	0.1	0.479	0.585
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	641666	3624.99	-	-	18.50	1.259	-	-	-0.01	0.496	0.624
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI1	641666	3624.99	-	-	18.50	1.222	-	-	0.04	0.182	0.222
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI1	641666	3624.99	-	-	18.50	1.259	-	-	0.13	0.183	0.230
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI1	641666	3624.99	-	-	18.50	1.222	-	-	-0.18	0.255	0.312
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI1	641666	3624.99	-	-	18.50	1.259	-	-	-0.11	0.230	0.290



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FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI1	641666	3624.99	-	-	18.50	1.222	-	-	-0.16	0.061	0.075
FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI1	641666	3624.99	-	-	18.50	1.259	-	-	-0.15	0.062	0.078
FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI1	641666	3624.99	-	-	16.00	1.183	-	-	-0.15	0.132	0.156
FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI1	641666	3624.99	-	-	16.00	1.227	-	-	-0.12	0.131	0.161
FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI1	641666	3624.99	-	-	16.00	1.183	-	-	-0.16	0.067	0.079
FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI1	641666	3624.99	-	-	16.00	1.227	-	-	-0.03	0.071	0.087
FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	641666	3624.99	-	-	16.00	1.183	-	-	0.17	0.487	0.576
FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	641666	3624.99	-	-	16.00	1.227	-	-	0.02	0.458	0.562
FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI1	641666	3624.99	-	-	16.00	1.183	-	-	0.08	0.196	0.232
FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI1	641666	3624.99	-	-	16.00	1.227	-	-	0.18	0.186	0.228
FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	641666	3624.99	-	-	23.50	1.321	-	-	-0.11	0.433	0.572
FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	641666	3624.99	-	-	23.50	1.390	-	-	-0.05	0.384	0.534
FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI1	641666	3624.99	-	-	23.50	1.321	-	-	-0.04	0.317	0.419
FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI1	641666	3624.99	-	-	23.50	1.390	-	-	-0.08	0.282	0.392
FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI1	641666	3624.99	-	-	23.50	1.321	-	-	-0.08	0.181	0.239
FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI1	641666	3624.99	-	-	23.50	1.390	-	-	-0.14	0.156	0.217
FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI1	641666	3624.99	-	-	23.50	1.321	-	-	0.01	0.177	0.234
FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI1	641666	3624.99	-	-	1.000	-	-	-	0.18	0.149	0.149
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI1	656000	3840	-	-	13.50	1.230	-	-	-0.06	0.200	0.246
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI1	656000	3840	-	-	13.50	1.135	-	-	-0.14	0.184	0.209
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI1	656000	3840	-	-	13.50	1.230	-	-	-0.19	0.247	0.304
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI1	656000	3840	-	-	13.50	1.135	-	-	0.01	0.230	0.261
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	656000	3840	-	-	13.50	1.230	-	-	0.06	0.449	0.552
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	656000	3840	-	-	13.50	1.135	-	-	0.02	0.423	0.480
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	656000	3840	-	-	13.50	1.230	-	-	0.12	0.497	0.611
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	656000	3840	-	-	13.50	1.135	-	-	-0.16	0.445	0.505
FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	656000	3840	-	-	16.50	1.135	50	1.000	-0.03	0.565	0.641
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.099	-	-	-0.12	0.326	0.358
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.138	-	-	0.07	0.291	0.331
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.099	-	-	-0.02	0.333	0.366
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.138	-	-	-0.05	0.306	0.348
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.099	-	-	-0.13	0.669	0.735
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.138	-	-	0.08	0.604	0.687
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.099	-	-	0.01	0.708	0.778
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.138	-	-	-0.16	0.753	0.857
FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.186	-	-	0.03	0.716	0.849
FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	16.50	1.153	50	1.000	0.02	0.770	0.888
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	656000	3840	-	-	18.50	1.377	-	-	-0.04	0.578	0.796
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	656000	3840	-	-	18.50	1.426	-	-	-0.01	0.599	0.854
FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	656000	3840	-	-	18.50	1.496	-	-	0.08	0.563	0.842
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI1	656000	3840	-	-	18.50	1.377	-	-	-0.07	0.232	0.319
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI1	656000	3840	-	-	18.50	1.426	-	-	-0.11	0.223	0.318
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI1	656000	3840	-	-	18.50	1.377	-	-	-0.06	0.314	0.432
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI1	656000	3840	-	-	18.50	1.426	-	-	-0.15	0.323	0.461
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI1	656000	3840	-	-	18.50	1.377	-	-	0.03	0.080	0.110
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI1	656000	3840	-	-	18.50	1.426	-	-	-0.13	0.055	0.078
FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	656000	3840	-	-	21.50	1.445	50	1.000	-0.04	0.614	0.887
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.303	-	-	0.16	0.614	0.800
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.315	-	-	-0.15	0.636	0.836
FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.337	-	-	0.06	0.619	0.828
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.303	-	-	-0.02	0.181	0.236
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.315	-	-	-0.09	0.195	0.256
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.303	-	-	0.14	0.247	0.322
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.315	-	-	0.1	0.239	0.314
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.303	-	-	-0.09	0.080	0.104



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	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.315	-	-	0.07	0.070	0.092
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	21.50	1.371	50	1.000	-0.01	0.649	0.890
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI1	656000	3840	-	-	18.00	1.282	-	-	-0.09	0.197	0.253
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI1	656000	3840	-	-	18.00	1.303	-	-	-0.16	0.177	0.231
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI1	656000	3840	-	-	18.00	1.282	-	-	-0.18	0.075	0.096
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI1	656000	3840	-	-	18.00	1.303	-	-	-0.07	0.068	0.089
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	656000	3840	-	-	18.00	1.282	-	-	0.11	0.628	0.805
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	656000	3840	-	-	18.00	1.303	-	-	-0.08	0.612	0.797
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	656000	3840	-	-	18.00	1.390	-	-	-0.1	0.565	0.785
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI1	656000	3840	-	-	18.00	1.282	-	-	-0.01	0.213	0.273
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI1	656000	3840	-	-	18.00	1.303	-	-	-0.09	0.188	0.245
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	656000	3840	-	-	21.00	1.349	50	1.000	-0.11	0.640	0.863
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.00	1.274	-	-	0.08	0.179	0.228
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.00	1.334	-	-	-0.06	0.189	0.252
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.00	1.274	-	-	-0.17	0.076	0.097
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.00	1.334	-	-	-0.01	0.098	0.131
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.00	1.274	-	-	-0.11	0.717	0.913
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.00	1.334	-	-	0.14	0.749	0.999
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.00	1.371	-	-	0.03	0.658	0.902
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.00	1.274	-	-	0.1	0.187	0.238
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.00	1.334	-	-	0.16	0.255	0.340
32	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	21.00	1.368	50	1.000	0.12	0.780	1.067
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	656000	3840	-	-	23.00	1.459	-	-	-0.13	0.093	0.136
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	656000	3840	-	-	23.00	1.489	-	-	-0.1	0.113	0.168
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI1	656000	3840	-	-	23.00	1.459	-	-	-0.07	0.082	0.120
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI1	656000	3840	-	-	23.00	1.489	-	-	0.11	0.100	0.149
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI1	656000	3840	-	-	23.00	1.459	-	-	-0.17	0.056	0.082
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI1	656000	3840	-	-	23.00	1.489	-	-	0.01	0.059	0.088
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI1	656000	3840	-	-	23.00	1.459	-	-	0.1	0.058	0.085
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI1	656000	3840	-	-	23.00	1.489	-	-	0.11	0.067	0.100
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	656000	3840	-	-	26.00	1.352	50	1.000	-0.07	0.133	0.180
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	633332	3499.98	-	-	23.00	1.479	-	-	-0.06	0.472	0.698
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	633332	3499.98	-	-	23.00	1.503	-	-	0.02	0.456	0.685
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI1	633332	3499.98	-	-	23.00	1.479	-	-	-0.16	0.368	0.544
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI1	633332	3499.98	-	-	23.00	1.503	-	-	0.05	0.348	0.523
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI1	633332	3499.98	-	-	23.00	1.479	-	-	-0.03	0.185	0.274
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI1	633332	3499.98	-	-	23.00	1.503	-	-	0.17	0.185	0.278
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI1	633332	3499.98	-	-	23.00	1.479	-	-	-0.15	0.192	0.284
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI1	633332	3499.98	-	-	23.00	1.503	-	-	0.16	0.194	0.292
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	633332	3499.98	-	-	26.00	1.449	50	1.000	-0.06	0.493	0.714
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI1	650000	3750	-	-	13.50	1.191	-	-	0.05	0.196	0.233
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI1	650000	3750	-	-	13.50	1.233	-	-	-0.06	0.193	0.238
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI1	650000	3750	-	-	13.50	1.191	-	-	-0.13	0.231	0.275
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI1	650000	3750	-	-	13.50	1.233	-	-	-0.01	0.226	0.279
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	650000	3750	-	-	13.50	1.191	-	-	-0.11	0.458	0.545
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	650000	3750	-	-	13.50	1.233	-	-	0.19	0.447	0.551
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	650000	3750	-	-	13.50	1.191	-	-	-0.18	0.536	0.638
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	650000	3750	-	-	13.50	1.233	-	-	-0.06	0.484	0.597
	FR1 n78_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	650000	3750	-	-	16.50	1.216	50	1.000	-0.09	0.558	0.679
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.099	-	-	0.16	0.333	0.366
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.138	-	-	0.01	0.292	0.332
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.099	-	-	-0.04	0.340	0.374
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.138	-	-	0.13	0.311	0.354
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.099	-	-	0.12	0.633	0.696



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	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.138	-	-	0.07	0.645	0.734
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.099	-	-	0.19	0.787	0.865
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.138	-	-	-0.06	0.721	0.820
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	13.50	1.186	-	-	0.1	0.698	0.828
	FR1 n78_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	ECI1	633332	3499.98	-	-	16.50	1.132	50	1.000	0.07	0.800	0.906
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	650000	3750	-	-	18.50	1.426	-	-	-0.03	0.506	0.722
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	650000	3750	-	-	18.50	1.517	-	-	0.07	0.522	0.792
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI1	650000	3750	-	-	18.50	1.426	-	-	-0.12	0.177	0.252
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI1	650000	3750	-	-	18.50	1.517	-	-	-0.03	0.189	0.287
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI1	650000	3750	-	-	18.50	1.426	-	-	0.02	0.258	0.368
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI1	650000	3750	-	-	18.50	1.517	-	-	0.12	0.252	0.382
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI1	650000	3750	-	-	18.50	1.426	-	-	0.02	0.050	0.071
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI1	650000	3750	-	-	18.50	1.517	-	-	-0.03	0.055	0.083
	FR1 n78_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	650000	3750	-	-	21.50	1.479	50	1.000	-0.07	0.575	0.850
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.426	-	-	-0.17	0.696	0.992
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.483	-	-	-0.1	0.713	1.057
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.535	-	-	0.02	0.678	1.041
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.426	-	-	0.05	0.220	0.314
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.483	-	-	0.04	0.244	0.362
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.426	-	-	0.07	0.256	0.365
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.483	-	-	0.15	0.311	0.461
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.426	-	-	-0.05	0.093	0.133
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	ECI1	633332	3499.98	-	-	18.50	1.483	-	-	-0.08	0.098	0.145
	FR1 n78_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	ECI1	633332	3499.98	-	-	21.50	1.384	50	1.000	-0.02	0.789	1.092
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI1	650000	3750	-	-	18.50	1.422	-	-	-0.08	0.201	0.286
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI1	650000	3750	-	-	18.50	1.435	-	-	-0.13	0.203	0.291
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI1	650000	3750	-	-	18.50	1.422	-	-	0.01	0.089	0.127
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI1	650000	3750	-	-	18.50	1.435	-	-	-0.11	0.084	0.121
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	650000	3750	-	-	18.50	1.422	-	-	0.03	0.695	0.988
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	650000	3750	-	-	18.50	1.435	-	-	-0.05	0.708	1.016
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	650000	3750	-	-	18.50	1.445	-	-	0.14	0.716	1.035
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI1	650000	3750	-	-	18.50	1.422	-	-	-0.01	0.252	0.358
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI1	650000	3750	-	-	18.50	1.435	-	-	-0.12	0.238	0.342
33	FR1 n78_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	650000	3750	-	-	21.50	1.452	50	1.000	-0.01	0.753	1.093
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.50	1.442	-	-	0.07	0.186	0.268
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.50	1.452	-	-	0.09	0.197	0.286
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.50	1.442	-	-	0.04	0.082	0.118
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.50	1.452	-	-	0.11	0.106	0.154
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.50	1.442	-	-	-0.13	0.648	0.934
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.50	1.452	-	-	0.12	0.734	1.066
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.50	1.462	-	-	-0.07	0.740	1.082
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.50	1.442	-	-	-0.11	0.205	0.296
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	ECI1	633332	3499.98	-	-	18.50	1.452	-	-	0.17	0.275	0.399
	FR1 n78_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	ECI1	633332	3499.98	-	-	21.50	1.455	50	1.000	-0.16	0.726	1.056
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	650000	3750	-	-	24.00	1.466	-	-	0.18	0.208	0.305
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	650000	3750	-	-	24.00	1.466	-	-	0.12	0.194	0.284
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI1	650000	3750	-	-	24.00	1.466	-	-	0.07	0.154	0.226
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI1	650000	3750	-	-	24.00	1.466	-	-	0.15	0.114	0.167
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI1	650000	3750	-	-	24.00	1.466	-	-	0.14	0.100	0.147
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI1	650000	3750	-	-	24.00	1.466	-	-	-0.03	0.071	0.104
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI1	650000	3750	-	-	24.00	1.466	-	-	-0.14	0.097	0.142
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI1	650000	3750	-	-	24.00	1.466	-	-	0.17	0.065	0.095
	FR1 n78_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	650000	3750	-	-	27.00	1.416	50	1.000	0.11	0.222	0.314
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	633332	3499.98	-	-	24.00	1.479	-	-	-0.17	0.627	0.927



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FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	633332	3499.98	-	-	24.00	1.496	-	-	0.11	0.647	0.968
FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	633332	3499.98	-	-	24.00	1.503	-	-	-0.05	0.619	0.930
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI1	633332	3499.98	-	-	24.00	1.479	-	-	-0.01	0.472	0.698
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	ECI1	633332	3499.98	-	-	24.00	1.496	-	-	-0.14	0.438	0.655
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI1	633332	3499.98	-	-	24.00	1.479	-	-	-0.15	0.226	0.334
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	ECI1	633332	3499.98	-	-	24.00	1.496	-	-	-0.12	0.238	0.356
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI1	633332	3499.98	-	-	24.00	1.479	-	-	-0.17	0.246	0.364
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	ECI1	633332	3499.98	-	-	24.00	1.496	-	-	0.08	0.249	0.373
FR1 n78_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	ECI1	633332	3499.98	-	-	27.00	1.476	50	1.000	-0.05	0.685	1.011

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WLAN&BT																
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 8	Standalone	6	2437	15.10	16.00	1.230	98.47	1.016	0.08	0.134	0.167
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 8	Standalone	6	2437	15.10	16.00	1.230	98.47	1.016	0.01	0.075	0.094
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Standalone	6	2437	15.10	16.00	1.230	98.47	1.016	0.02	0.580	0.725
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8	Standalone	6	2437	15.10	16.00	1.230	98.47	1.016	0.03	0.236	0.295
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	WIFI only DBS	6	2437	12.12	13.00	1.225	98.47	1.016	0.06	0.375	0.467
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 8	Non DBS	6	2437	9.73	10.50	1.194	98.47	1.016	0.08	0.043	0.052
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 8	Non DBS	6	2437	9.73	10.50	1.194	98.47	1.016	-	n/a	n/a
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Non DBS	6	2437	9.73	10.50	1.194	98.47	1.016	-0.03	0.188	0.228
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8	Non DBS	6	2437	9.73	10.50	1.194	98.47	1.016	0.03	0.078	0.095
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 8	DBS	6	2437	6.29	7.00	1.178	98.47	1.016	-0.08	0.038	0.045
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 8	DBS	6	2437	6.29	7.00	1.178	98.47	1.016	-0.08	0.029	0.035
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	DBS	6	2437	6.29	7.00	1.178	98.47	1.016	-0.03	0.101	0.121
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8	DBS	6	2437	6.29	7.00	1.178	98.47	1.016	0.1	0.085	0.102
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 10	Standalone	6	2437	15.30	16.00	1.175	98.47	1.016	-0.08	0.160	0.191
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 10	Standalone	6	2437	15.30	16.00	1.175	98.47	1.016	-0.08	0.207	0.247
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 10	Standalone	6	2437	15.30	16.00	1.175	98.47	1.016	0.1	0.386	0.461
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 10	Standalone	6	2437	15.30	16.00	1.175	98.47	1.016	-0.18	0.376	0.449
	WLAN2.4GHz	802.11n-HT20 MCS0	Right Cheek	0mm	Ant 10+8(8)	Standalone	6	2437	15.27	16.00	1.183	96.32	1.038	0.1	0.226	0.278
	WLAN2.4GHz	802.11n-HT20 MCS0	Right Tilted	0mm	Ant 10+8(8)	Standalone	6	2437	15.27	16.00	1.183	96.32	1.038	-0.17	0.198	0.243
34	WLAN2.4GHz	802.11n-HT20 MCS0	Left Cheek	0mm	Ant 10+8(8)	Standalone	6	2437	15.27	16.00	1.183	96.32	1.038	-0.02	0.848	1.041
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Cheek	0mm	Ant 10+8(10)	Standalone	11	2462	14.60	15.50	1.230	96.32	1.038	-0.05	0.784	1.001
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Tilted	0mm	Ant 10+8(8)	Standalone	6	2437	15.27	16.00	1.183	96.32	1.038	0.18	0.481	0.591
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Cheek	0mm	Ant 10+8(10)	WIFI only DBS	6	2437	11.76	12.50	1.186	96.32	1.038	0.08	0.441	0.543
	WLAN2.4GHz	802.11n-HT20 MCS0	Right Cheek	0mm	Ant 10+8(8)	Non DBS	6	2437	9.84	10.50	1.164	96.32	1.038	0.03	0.062	0.075
	WLAN2.4GHz	802.11n-HT20 MCS0	Right Tilted	0mm	Ant 10+8(8)	Non DBS	6	2437	9.84	10.50	1.164	96.32	1.038	-0.08	0.065	0.079
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Cheek	0mm	Ant 10+8(8)	Non DBS	6	2437	9.84	10.50	1.164	96.32	1.038	-0.08	0.199	0.240
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Tilted	0mm	Ant 10+8(8)	Non DBS	6	2437	9.84	10.50	1.164	96.32	1.038	0.1	0.133	0.161
	WLAN2.4GHz	802.11n-HT20 MCS0	Right Cheek	0mm	Ant 10+8(8)	DBS	6	2437	6.25	7.00	1.189	96.32	1.038	-0.18	0.026	0.032
	WLAN2.4GHz	802.11n-HT20 MCS0	Right Tilted	0mm	Ant 10+8(8)	DBS	6	2437	6.25	7.00	1.189	96.32	1.038	0.1	0.019	0.023
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Cheek	0mm	Ant 10+8(8)	DBS	6	2437	6.25	7.00	1.189	96.32	1.038	0.04	0.119	0.147
	WLAN2.4GHz	802.11n-HT20 MCS0	Left Tilted	0mm	Ant 10+8(8)	DBS	6	2437	6.25	7.00	1.189	96.32	1.038	0.12	0.059	0.073
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 8	Standalone	0	2402	15.90	17.50	1.445	76.8	1.085	0.08	0.249	0.391
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 8	Standalone	0	2402	15.90	17.50	1.445	76.8	1.085	0.01	0.321	0.503
35	Bluetooth	1Mbps	Left Cheek	0mm	Ant 8	Standalone	0	2402	15.90	17.50	1.445	76.8	1.085	0.07	0.683	1.071
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 8	Standalone	78	2480	15.20	17.00	1.514	76.8	1.085	0.08	0.641	1.053
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 8	Standalone	0	2402	15.90	17.50	1.445	76.8	1.085	0.03	0.604	0.947
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 8	Standalone	78	2480	15.20	17.00	1.514	76.8	1.085	0.01	0.563	0.925
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 8	WIFI only Non DBS BF	78	2480	12.20	14.00	1.514	76.8	1.085	-0.07	0.241	0.396
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 8	Non DBS	78	2480	10.10	12.00	1.549	76.8	1.085	-	n/a	n/a
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 8	Non DBS	78	2480	10.10	12.00	1.549	76.8	1.085	-	n/a	n/a
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 8	Non DBS	78	2480	10.10	12.00	1.549	76.8	1.085	0.05	0.147	0.247
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 8	Non DBS	78	2480	10.10	12.00	1.549	76.8	1.085	-0.03	0.065	0.109



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	Bluetooth	1Mbps	Right Cheek	0mm	Ant 8	Non DBS BF	78	2480	7.30	9.00	1.479	76.8	1.085	-	n/a	n/a
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 8	Non DBS BF	78	2480	7.30	9.00	1.479	76.8	1.085	-	n/a	n/a
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 8	Non DBS BF	78	2480	7.30	9.00	1.479	76.8	1.085	-0.11	0.074	0.119
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 8	Non DBS BF	78	2480	7.30	9.00	1.479	76.8	1.085	-	n/a	n/a
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 10	Standalone	78	2480	14.50	16.00	1.413	77.07	1.081	0.02	0.136	0.208
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 10	Standalone	78	2480	14.50	16.00	1.413	77.07	1.081	0.06	0.160	0.244
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 10	Standalone	78	2480	14.50	16.00	1.413	77.07	1.081	0.1	0.366	0.559
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 10	Standalone	78	2480	14.50	16.00	1.413	77.07	1.081	0.03	0.348	0.531
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 10	WIFI only Non DBS BF/DBS	78	2480	13.20	15.00	1.514	77.07	1.081	-0.12	0.174	0.285
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 10	Non DBS	78	2480	11.10	13.00	1.549	77.07	1.081	0.08	0.058	0.097
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 10	Non DBS	78	2480	11.10	13.00	1.549	77.07	1.081	-0.17	0.088	0.147
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 10	Non DBS	78	2480	11.10	13.00	1.549	77.07	1.081	0.03	0.143	0.239
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 10	Non DBS	78	2480	11.10	13.00	1.549	77.07	1.081	-0.03	0.127	0.213
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 10	Non DBS BF/DBS	78	2480	8.20	10.00	1.514	77.07	1.081	-	n/a	n/a
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 10	Non DBS BF/DBS	78	2480	8.20	10.00	1.514	77.07	1.081	-	n/a	n/a
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 10	Non DBS BF/DBS	78	2480	8.20	10.00	1.514	77.07	1.081	-0.16	0.075	0.123
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 10	Non DBS BF/DBS	78	2480	8.20	10.00	1.514	77.07	1.081	-	n/a	n/a
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+17(17)	Standalone	50	5250	14.47	15.50	1.268	92.54	1.081	-0.18	0.220	0.301
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+17(17)	Standalone	50	5250	14.47	15.50	1.268	92.54	1.081	0.1	0.154	0.211
36	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(17)	Standalone	50	5250	14.47	15.50	1.268	92.54	1.081	0.17	0.780	1.069
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+17(17)	Standalone	50	5250	14.47	15.50	1.268	92.54	1.081	0.12	0.376	0.515
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(17)	WIFI only Non DBS	50	5250	12.61	13.50	1.227	92.54	1.081	-0.04	0.541	0.718
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(6)	WIFI only DBS	50	5250	11.01	12.00	1.256	92.54	1.081	-0.08	0.421	0.572
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+17(17)	Non DBS&DBS	50	5250	7.58	8.50	1.236	92.54	1.081	0.18	0.049	0.065
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+17(17)	Non DBS&DBS	50	5250	7.58	8.50	1.236	92.54	1.081	0.14	0.034	0.045
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(17)	Non DBS&DBS	50	5250	7.58	8.50	1.236	92.54	1.081	-0.13	0.174	0.232
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+17(17)	Non DBS&DBS	50	5250	7.58	8.50	1.236	92.54	1.081	-0.17	0.104	0.139
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+17(6)	Standalone	114	5570	14.11	15.00	1.227	92.54	1.081	0.08	0.225	0.299
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+17(6)	Standalone	114	5570	14.11	15.00	1.227	92.54	1.081	-0.17	0.143	0.190
37	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(6)	Standalone	114	5570	14.11	15.00	1.227	92.54	1.081	0.03	0.709	0.941
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+17(6)	Standalone	114	5570	14.11	15.00	1.227	92.54	1.081	-0.03	0.345	0.458
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(6)	WIFI only Non DBS	114	5570	12.64	13.50	1.219	92.54	1.081	-0.04	0.544	0.717
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(6)	WIFI only DBS	114	5570	11.09	12.00	1.233	92.54	1.081	-0.08	0.391	0.521
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+17(6)	Non DBS&DBS	114	5570	7.63	8.50	1.222	92.54	1.081	0.1	0.062	0.082
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+17(6)	Non DBS&DBS	114	5570	7.63	8.50	1.222	92.54	1.081	-0.17	0.101	0.133
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(6)	Non DBS&DBS	114	5570	7.63	8.50	1.222	92.54	1.081	0.17	0.171	0.226
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+17(6)	Non DBS&DBS	114	5570	7.63	8.50	1.222	92.54	1.081	0.04	0.090	0.119
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+17(17)	Standalone	155	5775	13.93	14.50	1.140	85.37	1.171	0.14	0.210	0.280
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+17(17)	Standalone	155	5775	13.93	14.50	1.140	85.37	1.171	0.11	0.193	0.258
38	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+17(17)	Standalone	155	5775	13.93	14.50	1.140	85.37	1.171	0.06	0.724	0.967
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+17(17)	Standalone	155	5775	13.93	14.50	1.140	85.37	1.171	-0.05	0.424	0.566
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+17(6)	WIFI only Non DBS	155	5775	10.35	11.00	1.161	85.37	1.171	0.11	0.481	0.654
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+17(17)	WIFI only DBS	155	5775	10.33	11.00	1.167	85.37	1.171	-0.08	0.377	0.515
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+17(6)	Non DBS&DBS	155	5775	5.35	6.00	1.161	85.37	1.171	0.06	0.051	0.069
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+17(6)	Non DBS&DBS	155	5775	5.35	6.00	1.161	85.37	1.171	-0.09	0.046	0.063
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+17(6)	Non DBS&DBS	155	5775	5.35	6.00	1.161	85.37	1.171	-0.17	0.157	0.214
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+17(6)	Non DBS&DBS	155	5775	5.35	6.00	1.161	85.37	1.171	-0.08	0.102	0.139



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)	code State	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																					
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 5	133297	680.5	code:1	24.27	25.00	1.183	-	-	-0.01	0.188	0.222
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 0	ECI 5	133297	680.5	code:1	23.47	24.00	1.130	-	-	-0.11	0.136	0.154
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 5	133297	680.5	code:1	24.27	25.00	1.183	-	-	0.19	0.204	0.241
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 0	ECI 5	133297	680.5	code:1	23.47	24.00	1.130	-	-	-0.14	0.147	0.166
	LTE Band 71	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 5	133297	680.5	code:1	24.27	25.00	1.183	-	-	0.02	0.202	0.239
	LTE Band 71	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	ECI 5	133297	680.5	code:1	23.47	24.00	1.130	-	-	0.16	0.150	0.170
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 5	133297	680.5	code:1	24.27	25.00	1.183	-	-	0.01	0.068	0.080
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	ECI 5	133297	680.5	code:1	23.47	24.00	1.130	-	-	-0.04	0.049	0.055
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 5	133297	680.5	code:3	24.27	25.00	1.183	-	-	0.13	0.108	0.128
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 0	ECI 5	133297	680.5	code:3	23.47	24.00	1.130	-	-	0.12	0.078	0.088
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 5	133297	680.5	code:3	24.27	25.00	1.183	-	-	0.07	0.117	0.138
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 0	ECI 5	133297	680.5	code:3	23.47	24.00	1.130	-	-	0.08	0.083	0.094
	LTE Band 71	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 5	133297	680.5	code:3	24.27	25.00	1.183	-	-	0.08	0.095	0.112
	LTE Band 71	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	ECI 5	133297	680.5	code:3	23.47	24.00	1.130	-	-	-0.03	0.066	0.075
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 5	133297	680.5	code:3	24.27	25.00	1.183	-	-	0.07	0.039	0.046
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	ECI 5	133297	680.5	code:3	23.47	24.00	1.130	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 5	133297	680.5	code:c	21.43	22.50	1.279	-	-	-0.03	0.372	0.476
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 1	ECI 5	133297	680.5	code:c	21.33	22.50	1.309	-	-	0.14	0.287	0.376
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 5	133297	680.5	code:c	21.43	22.50	1.279	-	-	-0.05	0.425	0.544
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 5	133297	680.5	code:c	21.33	22.50	1.309	-	-	0.18	0.331	0.433
39	LTE Band 71	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	133297	680.5	code:c	21.43	22.50	1.279	-	-	0.1	0.501	0.641
	LTE Band 71	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 5	133297	680.5	code:c	21.33	22.50	1.309	-	-	0.1	0.378	0.495
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 5	23095	707.5	code:2	24.61	25.50	1.227	-	-	-0.03	0.280	0.344
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 0	ECI 5	23095	707.5	code:2	23.86	24.50	1.159	-	-	0.02	0.228	0.264
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 5	23095	707.5	code:2	24.61	25.50	1.227	-	-	0.12	0.295	0.362
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 0	ECI 5	23095	707.5	code:2	23.86	24.50	1.159	-	-	0.02	0.246	0.285
	LTE Band 12	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 5	23095	707.5	code:2	24.61	25.50	1.227	-	-	-0.1	0.407	0.499
	LTE Band 12	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	ECI 5	23095	707.5	code:2	23.86	24.50	1.159	-	-	0.05	0.327	0.379
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 5	23095	707.5	code:2	24.61	25.50	1.227	-	-	0.01	0.133	0.163
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	ECI 5	23095	707.5	code:2	23.86	24.50	1.159	-	-	0.07	0.116	0.134
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 5	23095	707.5	code:a	20.65	21.70	1.274	-	-	0.08	0.315	0.401
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 1	ECI 5	23095	707.5	code:a	20.59	21.70	1.291	-	-	0.01	0.260	0.336
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 5	23095	707.5	code:a	20.65	21.70	1.274	-	-	-0.08	0.360	0.459
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 1	ECI 5	23095	707.5	code:a	20.59	21.70	1.291	-	-	-0.08	0.299	0.386
40	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	23095	707.5	code:a	20.65	21.70	1.274	-	-	-0.01	0.486	0.619
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	ECI 5	23095	707.5	code:a	20.59	21.70	1.291	-	-	-0.18	0.408	0.527
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 5	23230	782	code:0	24.72	25.50	1.197	-	-	-0.17	0.291	0.348
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 0	ECI 5	23230	782	code:0	23.81	24.50	1.172	-	-	-0.03	0.228	0.267
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 5	23230	782	code:0	24.72	25.50	1.197	-	-	0.14	0.324	0.388
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 0	ECI 5	23230	782	code:0	23.81	24.50	1.172	-	-	0.11	0.249	0.292
41	LTE Band 13	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 5	23230	782	code:0	24.72	25.50	1.197	-	-	0.18	0.394	0.472
	LTE Band 13	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	ECI 5	23230	782	code:0	23.81	24.50	1.172	-	-	0.14	0.298	0.349
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 5	23230	782	code:0	24.72	25.50	1.197	-	-	-0.17	0.166	0.199
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	ECI 5	23230	782	code:0	23.81	24.50	1.172	-	-	0.17	0.130	0.152
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 5	23230	782	code:6	21.63	22.70	1.279	-	-	0.12	0.240	0.307
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 1	ECI 5	23230	782	code:6	21.57	22.70	1.297	-	-	0.03	0.224	0.291
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 5	23230	782	code:6	21.63	22.70	1.279	-	-	0.18	0.277	0.354
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 1	ECI 5	23230	782	code:6	21.57	22.70	1.297	-	-	0.16	0.261	0.339
	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	23230	782	code:6	21.63	22.70	1.279	-	-	0.03	0.329	0.421
	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	ECI 5	23230	782	code:6	21.57	22.70	1.297	-	-	-0.1	0.311	0.403



	LTE Band 17	10M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 5	23790	710	code:2	24.61	25.50	1.227	-	-	0.15	0.286	0.351
	LTE Band 17	10M	QPSK	25	0	-	Front	10mm	Ant 0	ECI 5	23790	710	code:2	23.75	24.50	1.189	-	-	-0.05	0.231	0.275
	LTE Band 17	10M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 5	23790	710	code:2	24.61	25.50	1.227	-	-	-0.08	0.310	0.380
	LTE Band 17	10M	QPSK	25	0	-	Back	10mm	Ant 0	ECI 5	23790	710	code:2	23.75	24.50	1.189	-	-	-0.08	0.253	0.301
	LTE Band 17	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 5	23790	710	code:2	24.61	25.50	1.227	-	-	-0.11	0.403	0.494
	LTE Band 17	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	ECI 5	23790	710	code:2	23.75	24.50	1.189	-	-	0.03	0.325	0.386
	LTE Band 17	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 5	23790	710	code:2	24.61	25.50	1.227	-	-	-0.05	0.148	0.182
	LTE Band 17	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	ECI 5	23790	710	code:2	23.75	24.50	1.189	-	-	0.14	0.123	0.146
	LTE Band 17	10M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 5	23790	710	code:a	20.52	21.70	1.312	-	-	-0.03	0.326	0.428
	LTE Band 17	10M	QPSK	25	0	-	Front	10mm	Ant 1	ECI 5	23790	710	code:a	20.35	21.70	1.365	-	-	0.09	0.267	0.364
	LTE Band 17	10M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 5	23790	710	code:a	20.52	21.70	1.312	-	-	-0.17	0.376	0.493
	LTE Band 17	10M	QPSK	25	0	-	Back	10mm	Ant 1	ECI 5	23790	710	code:a	20.35	21.70	1.365	-	-	-0.1	0.305	0.416
42	LTE Band 17	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	23790	710	code:a	20.52	21.70	1.312	-	-	0.05	0.479	0.628
	LTE Band 17	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	ECI 5	23790	710	code:a	20.35	21.70	1.365	-	-	0.17	0.389	0.531
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	136100	680.5	code:1	24.37	25.00	1.156	-	-	-0.07	0.170	0.197
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	136100	680.5	code:1	24.14	25.00	1.219	-	-	-0.16	0.129	0.157
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	136100	680.5	code:1	24.37	25.00	1.156	-	-	-0.03	0.179	0.207
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	136100	680.5	code:1	24.14	25.00	1.219	-	-	0.03	0.138	0.168
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	136100	680.5	code:1	24.37	25.00	1.156	-	-	0.06	0.187	0.216
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	136100	680.5	code:1	24.14	25.00	1.219	-	-	0.12	0.122	0.149
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	136100	680.5	code:1	24.37	25.00	1.156	-	-	-0.03	0.059	0.068
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	136100	680.5	code:1	24.14	25.00	1.219	-	-	0.11	0.045	0.055
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	136100	680.5	code:3	24.37	25.00	1.156	-	-	0.08	0.095	0.110
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	136100	680.5	code:3	24.14	25.00	1.219	-	-	0.07	0.068	0.083
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	136100	680.5	code:3	24.37	25.00	1.156	-	-	0.09	0.104	0.120
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	136100	680.5	code:3	24.14	25.00	1.219	-	-	-0.12	0.077	0.094
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	136100	680.5	code:3	24.37	25.00	1.156	-	-	-0.1	0.085	0.098
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	136100	680.5	code:3	24.14	25.00	1.219	-	-	0.17	0.053	0.065
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	136100	680.5	code:3	24.37	25.00	1.156	-	-	-	n/a	n/a
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	136100	680.5	code:3	24.14	25.00	1.219	-	-	-	n/a	n/a
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	136100	680.5	-	21.33	22.50	1.309	-	-	-0.01	0.392	0.513
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	136100	680.5	-	21.21	22.50	1.346	-	-	-0.08	0.340	0.458
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	136100	680.5	-	21.33	22.50	1.309	-	-	0.05	0.453	0.593
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	136100	680.5	-	21.21	22.50	1.346	-	-	0.06	0.398	0.536
43	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	136100	680.5	-	21.33	22.50	1.309	-	-	0.06	0.526	0.689
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	136100	680.5	-	21.21	22.50	1.346	-	-	-0.09	0.456	0.614
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	141500	707.5	code:2	24.76	25.50	1.186	-	-	-0.12	0.229	0.272
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	141500	707.5	code:2	24.72	25.50	1.197	-	-	-0.1	0.230	0.275
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	141500	707.5	code:2	24.76	25.50	1.186	-	-	0.16	0.220	0.261
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	141500	707.5	code:2	24.72	25.50	1.197	-	-	-0.09	0.241	0.288
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	141500	707.5	code:2	24.76	25.50	1.186	-	-	0.06	0.314	0.372
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	141500	707.5	code:2	24.72	25.50	1.197	-	-	0.1	0.304	0.364
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	141500	707.5	code:2	24.76	25.50	1.186	-	-	0.1	0.112	0.133
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	141500	707.5	code:2	24.72	25.50	1.197	-	-	-0.07	0.120	0.144
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	141500	707.5	-	21.76	22.70	1.242	-	-	0.18	0.457	0.568
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	141500	707.5	-	21.66	22.70	1.271	-	-	0.16	0.521	0.662
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	141500	707.5	-	21.76	22.70	1.242	-	-	-0.1	0.533	0.662
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	141500	707.5	-	21.66	22.70	1.271	-	-	0.07	0.567	0.721
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	141500	707.5	-	21.76	22.70	1.242	-	-	0.18	0.736	0.914
44	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	141500	707.5	-	21.66	22.70	1.271	-	-	0.05	0.749	0.952
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	141500	707.5	-	21.44	22.70	1.337	-	-	0.03	0.708	0.947
850MHz																					
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 0	ECI 5	189	836.4	-	26.84	28.00	1.306	-	-	0.03	0.328	0.428
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 0	ECI 5	189	836.4	-	26.84	28.00	1.306	-	-	0.16	0.360	0.470
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	10mm	Ant 0	ECI 5	189	836.4	-	26.84	28.00	1.306	-	-	0.05	0.450	0.588



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	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 0	ECl 5	189	836.4	-	26.84	28.00	1.306	-	-	-0.06	0.238	0.311
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 1	ECl 5	189	836.4	-	21.98	23.50	1.419	-	-	0.14	0.339	0.481
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 1	ECl 5	189	836.4	-	21.98	23.50	1.419	-	-	0.11	0.386	0.548
45	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 1	ECl 5	189	836.4	-	21.98	23.50	1.419	-	-	0.07	0.450	0.639
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	ECl 5	4182	836.4	-	24.26	25.00	1.186	-	-	0.08	0.340	0.403
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	ECl 5	4182	836.4	-	24.26	25.00	1.186	-	-	0.01	0.389	0.461
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	ECl 5	4182	836.4	-	24.26	25.00	1.186	-	-	0.04	0.431	0.511
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	ECl 5	4182	836.4	-	24.26	25.00	1.186	-	-	-0.08	0.244	0.289
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	ECl 5	4182	836.4	-	19.27	20.50	1.327	-	-	0.12	0.387	0.514
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	ECl 5	4182	836.4	-	19.27	20.50	1.327	-	-	0.08	0.440	0.584
46	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECl 5	4182	836.4	-	19.27	20.50	1.327	-	-	0.02	0.513	0.681
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 0	ECl 5	20525	836.5	code:4	25.10	25.70	1.148	-	-	0.08	0.436	0.501
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 0	ECl 5	20525	836.5	code:4	24.24	24.70	1.112	-	-	0.01	0.348	0.387
	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 0	ECl 5	20525	836.5	code:4	25.10	25.70	1.148	-	-	0.03	0.526	0.604
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 0	ECl 5	20525	836.5	code:4	24.24	24.70	1.112	-	-	-0.08	0.420	0.467
	LTE Band 5	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECl 5	20525	836.5	code:4	25.10	25.70	1.148	-	-	0.19	0.550	0.631
	LTE Band 5	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	ECl 5	20525	836.5	code:4	24.24	24.70	1.112	-	-	-0.18	0.436	0.485
	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECl 5	20525	836.5	code:4	25.10	25.70	1.148	-	-	0.1	0.324	0.372
	LTE Band 5	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	ECl 5	20525	836.5	code:4	24.24	24.70	1.112	-	-	0.12	0.258	0.287
	LTE Band 5 other pa	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECl 5	20525	836.5	code:4	25.24	25.70	1.112	-	-	0.08	0.533	0.593
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 0	ECl 5	20525	836.5	code:8	25.10	25.70	1.148	-	-	0.05	0.154	0.177
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 0	ECl 5	20525	836.5	code:8	24.24	24.70	1.112	-	-	0.08	0.130	0.145
	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 0	ECl 5	20525	836.5	code:8	25.10	25.70	1.148	-	-	-0.18	0.200	0.230
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 0	ECl 5	20525	836.5	code:8	24.24	24.70	1.112	-	-	-0.03	0.165	0.183
	LTE Band 5	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECl 5	20525	836.5	code:8	25.10	25.70	1.148	-	-	0.18	0.264	0.303
	LTE Band 5	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	ECl 5	20525	836.5	code:8	24.24	24.70	1.112	-	-	0.11	0.218	0.242
	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECl 5	20525	836.5	code:8	25.10	25.70	1.148	-	-	0.07	0.134	0.154
	LTE Band 5	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	ECl 5	20525	836.5	code:8	24.24	24.70	1.112	-	-	-0.03	0.109	0.121
	LTE Band 5 other pa	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECl 5	20525	836.5	code:8	25.24	25.70	1.112	-	-	0.09	0.263	0.292
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 1	ECl 5	20525	836.5	code:2	20.25	20.70	1.109	-	-	0.08	0.518	0.574
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 1	ECl 5	20525	836.5	code:2	20.14	20.70	1.138	-	-	0.01	0.526	0.599
	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 1	ECl 5	20525	836.5	code:2	20.25	20.70	1.109	-	-	0.03	0.582	0.645
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 1	ECl 5	20525	836.5	code:2	20.14	20.70	1.138	-	-	-0.08	0.595	0.677
47	LTE Band 5	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECl 5	20525	836.5	code:2	20.25	20.70	1.109	-	-	0.06	0.693	0.769
	LTE Band 5	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	ECl 5	20525	836.5	code:2	20.14	20.70	1.138	-	-	-0.08	0.671	0.764
	LTE Band 5	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	ECl 5	20525	836.5	code:0	20.14	20.70	1.138	-	-	0.08	0.576	0.655
	LTE Band 5 other pa	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECl 5	20525	836.5	code:2	20.47	20.70	1.054	-	-	-0.17	0.467	0.492
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 0	ECl 5	26865	831.5	code:4	25.07	25.70	1.156	-	-	0.14	0.390	0.451
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 0	ECl 5	26865	831.5	code:4	24.28	24.70	1.102	-	-	0.11	0.309	0.341
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	ECl 5	26865	831.5	code:4	25.07	25.70	1.156	-	-	-0.05	0.455	0.526
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 0	ECl 5	26865	831.5	code:4	24.28	24.70	1.102	-	-	0.18	0.361	0.398
	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECl 5	26865	831.5	code:4	25.07	25.70	1.156	-	-	0.07	0.511	0.591
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 0	ECl 5	26865	831.5	code:4	24.28	24.70	1.102	-	-	0.17	0.404	0.445
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECl 5	26865	831.5	code:4	25.07	25.70	1.156	-	-	-0.05	0.290	0.335
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	10mm	Ant 0	ECl 5	26865	831.5	code:4	24.28	24.70	1.102	-	-	0.01	0.234	0.258
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 0	ECl 5	26865	831.5	code:8	25.07	25.70	1.156	-	-	-0.08	0.132	0.153
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 0	ECl 5	26865	831.5	code:8	24.28	24.70	1.102	-	-	-0.05	0.108	0.119
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	ECl 5	26865	831.5	code:8	25.07	25.70	1.156	-	-	-0.03	0.180	0.208
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 0	ECl 5	26865	831.5	code:8	24.28	24.70	1.102	-	-	0.17	0.147	0.162
	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECl 5	26865	831.5	code:8	25.07	25.70	1.156	-	-	-0.06	0.225	0.260
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 0	ECl 5	26865	831.5	code:8	24.28	24.70	1.102	-	-	-0.15	0.183	0.202
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECl 5	26865	831.5	code:8	25.07	25.70	1.156	-	-	-0.12	0.118	0.136
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	10mm	Ant 0	ECl 5	26865	831.5	code:8	24.28	24.70	1.102	-	-	-0.16	0.098	0.108
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 1	ECl 5	26865	831.5	code:2	20.26	20.70	1.107	-	-	0.1	0.452	0.500



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	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 1	ECI 5	26865	831.5	code:2	20.23	20.70	1.114	-	-	-0.17	0.460	0.512
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 5	26865	831.5	code:2	20.26	20.70	1.107	-	-	0.04	0.535	0.592
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 1	ECI 5	26865	831.5	code:2	20.23	20.70	1.114	-	-	-0.01	0.546	0.608
48	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	26865	831.5	code:2	20.26	20.70	1.107	-	-	0.01	0.622	0.689
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	ECI 5	26865	831.5	code:2	20.23	20.70	1.114	-	-	-0.08	0.615	0.685
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	26865	831.5	code:0	20.26	20.70	1.107	-	-	0.13	0.472	0.523
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167300	836.5	code:4	25.37	25.70	1.079	-	-	-0.16	0.367	0.396
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167300	836.5	code:4	25.16	25.70	1.132	-	-	-0.18	0.382	0.432
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167300	836.5	code:4	25.37	25.70	1.079	-	-	-0.07	0.430	0.464
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167300	836.5	code:4	25.16	25.70	1.132	-	-	0.11	0.435	0.492
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167300	836.5	code:4	25.37	25.70	1.079	-	-	0.17	0.501	0.541
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167300	836.5	code:4	25.16	25.70	1.132	-	-	-0.09	0.471	0.533
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167300	836.5	code:4	25.37	25.70	1.079	-	-	-0.06	0.280	0.302
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167300	836.5	code:4	25.16	25.70	1.132	-	-	-0.17	0.277	0.314
	FR1 n5 main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167300	836.5	code:4	25.24	25.70	1.112	-	-	-0.01	0.473	0.526
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167300	836.5	code:8	25.37	25.70	1.079	-	-	0.08	0.128	0.138
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	167300	836.5	code:8	25.16	25.70	1.132	-	-	0.01	0.157	0.178
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167300	836.5	code:8	25.37	25.70	1.079	-	-	0.03	0.158	0.170
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	167300	836.5	code:8	25.16	25.70	1.132	-	-	-0.08	0.178	0.201
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167300	836.5	code:8	25.37	25.70	1.079	-	-	-0.17	0.255	0.275
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167300	836.5	code:8	25.16	25.70	1.132	-	-	0.1	0.231	0.261
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167300	836.5	code:8	25.37	25.70	1.079	-	-	0.12	0.106	0.114
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	167300	836.5	code:8	25.16	25.70	1.132	-	-	0.08	0.118	0.134
	FR1 n5 main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	167300	836.5	code:8	25.24	25.70	1.112	-	-	-0.18	0.246	0.274
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	167300	836.5	code:2	20.31	20.70	1.094	-	-	0.03	0.348	0.381
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	167300	836.5	code:2	20.18	20.70	1.127	-	-	-0.13	0.377	0.425
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	167300	836.5	code:2	20.31	20.70	1.094	-	-	0.16	0.399	0.437
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	167300	836.5	code:2	20.18	20.70	1.127	-	-	-0.15	0.455	0.513
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	167300	836.5	code:2	20.31	20.70	1.094	-	-	-0.02	0.576	0.630
49	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	167300	836.5	code:2	20.18	20.70	1.127	-	-	0.03	0.593	0.668
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	167300	836.5	code:0	20.18	20.70	1.127	-	-	-0.09	0.587	0.662
	FR1 n5 main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	167300	836.5	code:2	20.42	20.70	1.067	-	-	-0.09	0.590	0.630
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	166300	831.5	code:4	25.25	25.70	1.109	-	-	-0.03	0.285	0.316
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	166300	831.5	code:4	24.97	25.70	1.183	-	-	0.14	0.301	0.356
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	166300	831.5	code:4	25.25	25.70	1.109	-	-	0.11	0.329	0.365
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	166300	831.5	code:4	24.97	25.70	1.183	-	-	-0.05	0.323	0.382
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	166300	831.5	code:4	25.25	25.70	1.109	-	-	-0.17	0.360	0.399
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	166300	831.5	code:4	24.97	25.70	1.183	-	-	0.17	0.327	0.387
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	166300	831.5	code:4	25.25	25.70	1.109	-	-	-0.05	0.203	0.225
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	166300	831.5	code:4	24.97	25.70	1.183	-	-	0.01	0.217	0.257
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	166300	831.5	code:8	25.25	25.70	1.109	-	-	0.1	0.115	0.128
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	ECI 5	166300	831.5	code:8	24.97	25.70	1.183	-	-	-0.17	0.146	0.173
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	166300	831.5	code:8	25.25	25.70	1.109	-	-	0.04	0.146	0.162
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	ECI 5	166300	831.5	code:8	24.97	25.70	1.183	-	-	-0.01	0.168	0.199
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	166300	831.5	code:8	25.25	25.70	1.109	-	-	0.06	0.193	0.214
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	ECI 5	166300	831.5	code:8	24.97	25.70	1.183	-	-	-0.09	0.206	0.244
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	166300	831.5	code:8	25.25	25.70	1.109	-	-	-0.08	0.193	0.214
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	ECI 5	166300	831.5	code:8	24.97	25.70	1.183	-	-	0.13	0.107	0.127
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	166300	831.5	code:2	21.49	21.70	1.050	-	-	0.16	0.393	0.413
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	ECI 5	166300	831.5	code:2	21.47	21.70	1.054	-	-	0.01	0.444	0.468
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	166300	831.5	code:2	21.49	21.70	1.050	-	-	-0.16	0.454	0.477
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	ECI 5	166300	831.5	code:2	21.47	21.70	1.054	-	-	0.1	0.518	0.546
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	166300	831.5	code:2	21.49	21.70	1.050	-	-	-0.04	0.611	0.642
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	166300	831.5	code:2	21.47	21.70	1.054	-	-	-0.01	0.670	0.706
50	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	ECI 5	166300	831.5	code:0	21.47	21.70	1.054	-	-	0.04	0.691	0.728



1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 3	ECI 5	1413	1732.6	-	16.47	17.50	1.268	-	-	-0.08	0.132	0.167
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 3	ECI 5	1413	1732.6	-	16.47	17.50	1.268	-	-	-0.04	0.168	0.213
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 3	ECI 5	1413	1732.6	-	16.47	17.50	1.268	-	-	0.07	0.245	0.311
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 3	ECI 5	1413	1732.6	-	16.47	17.50	1.268	-	-	0.18	0.086	0.109
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 5	1413	1732.6	-	17.32	18.50	1.312	-	-	0.02	0.185	0.243
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 5	1413	1732.6	-	17.32	18.50	1.312	-	-	0.02	0.244	0.320
51	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 2	ECI 5	1413	1732.6	-	17.32	18.50	1.312	-	-	-0.09	0.321	0.421
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	20175	1732.5	code:b0	18.35	19.20	1.216	-	-	-0.03	0.210	0.255
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 5	20175	1732.5	code:b0	18.27	19.20	1.239	-	-	0.17	0.211	0.261
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	20175	1732.5	code:b0	18.35	19.20	1.216	-	-	0.02	0.274	0.333
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	20175	1732.5	code:b0	18.27	19.20	1.239	-	-	0.03	0.275	0.341
	LTE Band 4	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	ECI 5	20175	1732.5	code:b0	18.35	19.20	1.216	-	-	-0.05	0.300	0.365
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	ECI 5	20175	1732.5	code:b0	18.27	19.20	1.239	-	-	0.01	0.319	0.395
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	ECI 5	20175	1732.5	code:1e	18.27	19.20	1.239	-	-	-0.14	0.066	0.082
	LTE Band 4 main PA	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	ECI 5	20175	1732.5	code:b0	18.69	19.20	1.125	-	-	-0.04	0.302	0.340
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECI 5	20175	1732.5	code:0	17.31	18.20	1.227	-	-	0.18	0.127	0.156
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECI 5	20175	1732.5	code:0	17.29	18.20	1.233	-	-	0.02	0.124	0.153
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 5	20175	1732.5	code:0	17.31	18.20	1.227	-	-	0.16	0.157	0.193
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 3	ECI 5	20175	1732.5	code:0	17.29	18.20	1.233	-	-	0.06	0.156	0.192
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	20175	1732.5	code:0	17.31	18.20	1.227	-	-	-0.02	0.230	0.282
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECI 5	20175	1732.5	code:0	17.29	18.20	1.233	-	-	0.07	0.228	0.281
	LTE Band 4	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECI 5	20175	1732.5	code:0	17.31	18.20	1.227	-	-	0.08	0.072	0.088
	LTE Band 4	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECI 5	20175	1732.5	code:0	17.29	18.20	1.233	-	-	-0.08	0.074	0.091
	LTE Band 4 other pa	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	20175	1732.5	code:0	17.36	18.20	1.213	-	-	-0.13	0.207	0.251
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	20175	1732.5	-	19.77	20.70	1.239	-	-	0.08	0.224	0.278
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	20175	1732.5	-	19.62	20.70	1.282	-	-	0.01	0.242	0.310
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	20175	1732.5	-	19.77	20.70	1.239	-	-	0.03	0.287	0.356
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	20175	1732.5	-	19.62	20.70	1.282	-	-	-0.08	0.303	0.388
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	20175	1732.5	-	19.77	20.70	1.239	-	-	-0.08	0.091	0.113
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	20175	1732.5	-	19.62	20.70	1.282	-	-	0.1	0.091	0.117
	LTE Band 4	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 4	ECI 5	20175	1732.5	-	19.77	20.70	1.239	-	-	0.12	0.450	0.558
52	LTE Band 4	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 4	ECI 5	20175	1732.5	-	19.62	20.70	1.282	-	-	-0.13	0.473	0.606
	LTE Band 4 other pa	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 4	ECI 5	20175	1732.5	-	19.40	20.70	1.349	-	-	-0.02	0.301	0.406
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECI 5	20175	1732.5	-	17.59	19.00	1.384	-	-	0.18	0.123	0.170
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECI 5	20175	1732.5	-	17.37	19.00	1.455	-	-	0.03	0.127	0.185
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 5	20175	1732.5	-	17.59	19.00	1.384	-	-	0.01	0.170	0.235
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 5	20175	1732.5	-	17.37	19.00	1.455	-	-	0.04	0.170	0.247
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 5	ECI 5	20175	1732.5	-	17.59	19.00	1.384	-	-	-	n/a	n/a
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 5	ECI 5	20175	1732.5	-	17.37	19.00	1.455	-	-	-	n/a	n/a
	LTE Band 4	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	ECI 5	20175	1732.5	-	17.59	19.00	1.384	-	-	-0.13	0.226	0.313
	LTE Band 4	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	ECI 5	20175	1732.5	-	17.37	19.00	1.455	-	-	0.02	0.239	0.348
	LTE Band 4 other pa	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	ECI 5	20175	1732.5	-	17.62	19.00	1.374	-	-	-0.03	0.211	0.290
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	132322	1745	code:b0	18.47	19.20	1.183	-	-	-0.1	0.256	0.303
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 5	132322	1745	code:b0	18.43	19.20	1.194	-	-	-0.07	0.255	0.304
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	132322	1745	code:b0	18.47	19.20	1.183	-	-	0.11	0.339	0.401
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	132322	1745	code:b0	18.43	19.20	1.194	-	-	-0.17	0.341	0.407
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	ECI 5	132322	1745	code:b0	18.47	19.20	1.183	-	-	0.11	0.364	0.431
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	ECI 5	132322	1745	code:b0	18.43	19.20	1.194	-	-	0.15	0.429	0.512
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	ECI 5	132322	1745	code:1e	18.43	19.20	1.194	-	-	0.07	0.081	0.097
	LTE Band 66 main PA	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	ECI 5	132322	1745	code:b0	18.53	19.20	1.167	-	-	-0.07	0.366	0.427
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECI 5	132322	1745	code:0	16.86	17.70	1.213	-	-	0.14	0.121	0.147
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECI 5	132322	1745	code:0	16.82	17.70	1.225	-	-	-0.03	0.121	0.148
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 5	132322	1745	code:0	16.86	17.70	1.213	-	-	-0.14	0.153	0.186



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	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 3	ECI 5	132322	1745	code:0	16.82	17.70	1.225	-	-	0.17	0.147	0.180
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	132322	1745	code:0	16.86	17.70	1.213	-	-	0.11	0.223	0.270
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECI 5	132322	1745	code:0	16.82	17.70	1.225	-	-	0.07	0.205	0.251
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECI 5	132322	1745	code:0	16.86	17.70	1.213	-	-	-0.13	0.064	0.078
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECI 5	132322	1745	code:0	16.82	17.70	1.225	-	-	-0.13	0.062	0.076
	LTE Band 66 other pa	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	132322	1745	code:0	17.02	17.70	1.169	-	-	-0.08	0.199	0.233
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	132322	1745	-	18.71	19.70	1.256	-	-	0.03	0.244	0.306
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	132322	1745	-	18.59	19.70	1.291	-	-	0.04	0.262	0.338
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	132322	1745	-	18.71	19.70	1.256	-	-	-0.09	0.314	0.394
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	132322	1745	-	18.59	19.70	1.291	-	-	0.1	0.326	0.421
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	132322	1745	-	18.71	19.70	1.256	-	-	0.11	0.102	0.128
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	132322	1745	-	18.59	19.70	1.291	-	-	0.14	0.098	0.127
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 4	ECI 5	132322	1745	-	18.71	19.70	1.256	-	-	-0.03	0.447	0.561
53	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 4	ECI 5	132322	1745	-	18.59	19.70	1.291	-	-	-0.03	0.472	0.609
	LTE Band 66 other pa	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 4	ECI 5	132322	1770	-	18.52	19.70	1.312	-	-	0.17	0.258	0.338
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECI 5	132322	1745	-	17.00	18.50	1.413	-	-	-0.04	0.125	0.177
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECI 5	132322	1745	-	16.82	18.50	1.472	-	-	-0.15	0.128	0.188
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 5	132322	1745	-	17.00	18.50	1.413	-	-	-0.09	0.173	0.244
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 5	132322	1745	-	16.82	18.50	1.472	-	-	0.05	0.170	0.250
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 5	ECI 5	132322	1745	-	17.00	18.50	1.413	-	-	-	n/a	n/a
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 5	ECI 5	132322	1745	-	16.82	18.50	1.472	-	-	-	n/a	n/a
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	ECI 5	132322	1745	-	17.00	18.50	1.413	-	-	-0.05	0.225	0.318
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	ECI 5	132322	1745	-	16.82	18.50	1.472	-	-	-0.07	0.234	0.344
	LTE Band 66 other pa	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	ECI 5	132322	1745	-	17.09	18.50	1.384	-	-	0.1	0.206	0.285
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	ECI 5	349000	1745	code:b0	18.58	19.20	1.153	-	-	0.12	0.257	0.296
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 2	ECI 5	349000	1745	code:b0	18.48	19.20	1.180	-	-	0.03	0.259	0.306
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	ECI 5	349000	1745	code:b0	18.58	19.20	1.153	-	-	0.18	0.341	0.393
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 2	ECI 5	349000	1745	code:b0	18.48	19.20	1.180	-	-	0.16	0.342	0.404
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 2	ECI 5	349000	1745	code:b0	18.58	19.20	1.153	-	-	0.18	0.370	0.427
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 2	ECI 5	349000	1745	code:b0	18.48	19.20	1.180	-	-	0.07	0.379	0.447
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 2	ECI 5	349000	1745	code:1e	18.48	19.20	1.180	-	-	0.19	0.084	0.099
	FR1 n66 main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 2	ECI 5	349000	1745	code:b0	18.74	19.20	1.112	-	-	-0.1	0.396	0.440
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 3	ECI 5	349000	1745	code:0	17.04	17.70	1.164	-	-	-0.18	0.114	0.133
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 3	ECI 5	349000	1745	code:0	16.87	17.70	1.211	-	-	0.03	0.122	0.148
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 3	ECI 5	349000	1745	code:0	17.04	17.70	1.164	-	-	-0.15	0.146	0.170
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 3	ECI 5	349000	1745	code:0	16.87	17.70	1.211	-	-	-0.15	0.152	0.184
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 3	ECI 5	349000	1745	code:0	17.04	17.70	1.164	-	-	0.11	0.198	0.230
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 3	ECI 5	349000	1745	code:0	16.87	17.70	1.211	-	-	-0.08	0.219	0.265
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 3	ECI 5	349000	1745	code:0	17.04	17.70	1.164	-	-	-0.04	0.071	0.083
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 3	ECI 5	349000	1745	code:0	16.87	17.70	1.211	-	-	-0.08	0.067	0.081
	FR1 n66 other pa	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 3	ECI 5	349000	1745	code:0	16.91	17.70	1.199	-	-	0.17	0.207	0.248
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 4	ECI 5	349000	1745	-	19.23	20.20	1.250	-	-	0.12	0.228	0.285
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 4	ECI 5	349000	1745	-	19.12	20.20	1.282	-	-	0.08	0.274	0.351
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 4	ECI 5	349000	1745	-	19.23	20.20	1.250	-	-	-0.17	0.259	0.324
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 4	ECI 5	349000	1745	-	19.12	20.20	1.282	-	-	-0.03	0.323	0.414
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 4	ECI 5	349000	1745	-	19.23	20.20	1.250	-	-	0.14	0.084	0.105
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 4	ECI 5	349000	1745	-	19.12	20.20	1.282	-	-	0.11	0.103	0.132
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 4	ECI 5	349000	1745	-	19.23	20.20	1.250	-	-	-0.05	0.430	0.538
54	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 4	ECI 5	349000	1745	-	19.12	20.20	1.282	-	-	0.08	0.524	0.672
	FR1 n66 other pa	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 4	ECI 5	349000	1745	-	19.10	20.20	1.288	-	-	0.18	0.444	0.572
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 5	ECI 5	349000	1745	-	16.92	18.50	1.439	-	-	0.1	0.105	0.151
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 5	ECI 5	349000	1745	-	16.85	18.50	1.462	-	-	0.04	0.148	0.216
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 5	ECI 5	349000	1745	-	16.92	18.50	1.439	-	-	0.13	0.153	0.220
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 5	ECI 5	349000	1745	-	16.85	18.50	1.462	-	-	-0.18	0.220	0.322



	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 5	ECI 5	349000	1745	-	16.92	18.50	1.439	-	-	-	n/a	n/a
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 5	ECI 5	349000	1745	-	16.85	18.50	1.462	-	-	-	n/a	n/a
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 5	ECI 5	349000	1745	-	16.92	18.50	1.439	-	-	-0.14	0.189	0.272
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 5	ECI 5	349000	1745	-	16.85	18.50	1.462	-	-	0.04	0.265	0.387
	FR1 n66 other pa	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 5	ECI 5	349000	1745	-	17.12	18.50	1.374	-	-	0.01	0.250	0.344
1900MHz																					
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 3	ECI 5	661	1880	-	20.79	22.00	1.321	-	-	-0.11	0.159	0.210
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 3	ECI 5	661	1880	-	20.79	22.00	1.321	-	-	-0.02	0.235	0.310
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 3	ECI 5	661	1880	-	20.79	22.00	1.321	-	-	0.06	0.310	0.410
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 3	ECI 5	661	1880	-	20.79	22.00	1.321	-	-	0.14	0.083	0.110
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 2	ECI 5	661	1880	-	20.18	21.50	1.355	-	-	0.04	0.192	0.260
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 2	ECI 5	661	1880	-	20.18	21.50	1.355	-	-	-0.05	0.261	0.354
55	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Side	10mm	Ant 2	ECI 5	661	1880	-	20.18	21.50	1.355	-	-	0.08	0.326	0.442
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 3	ECI 5	9400	1880	-	17.56	18.50	1.242	-	-	0.18	0.146	0.181
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 3	ECI 5	9400	1880	-	17.56	18.50	1.242	-	-	-0.04	0.192	0.238
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 3	ECI 5	9400	1880	-	17.56	18.50	1.242	-	-	-0.08	0.272	0.338
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 3	ECI 5	9400	1880	-	17.56	18.50	1.242	-	-	-0.13	0.065	0.081
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 5	9400	1880	-	17.87	19.00	1.297	-	-	-0.17	0.248	0.322
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 5	9400	1880	-	17.87	19.00	1.297	-	-	-0.03	0.344	0.446
56	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 2	ECI 5	9400	1880	-	17.87	19.00	1.297	-	-	-0.08	0.422	0.547
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	18900	1880	code:a1	18.85	19.50	1.161	-	-	-0.08	0.234	0.272
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 5	18900	1880	code:a1	18.65	19.50	1.216	-	-	-0.1	0.236	0.287
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	18900	1880	code:a1	18.85	19.50	1.161	-	-	-0.01	0.317	0.368
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	18900	1880	code:a1	18.65	19.50	1.216	-	-	-0.09	0.321	0.390
	LTE Band 2	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	ECI 5	18900	1880	code:a1	18.85	19.50	1.161	-	-	-0.01	0.358	0.416
	LTE Band 2	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	ECI 5	18900	1880	code:a1	18.65	19.50	1.216	-	-	-0.11	0.341	0.415
	LTE Band 2	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	ECI 5	18900	1880	code:83	18.85	19.50	1.161	-	-	0.1	0.266	0.309
	LTE Band 2 other pa	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	ECI 5	18900	1880	code:a1	18.37	19.50	1.297	-	-	0.16	0.281	0.364
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECI 5	18900	1880	code:2	16.37	17.70	1.358	-	-	-0.06	0.118	0.160
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECI 5	18900	1880	code:2	16.32	17.70	1.374	-	-	0.02	0.118	0.162
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 5	18900	1880	code:2	16.37	17.70	1.358	-	-	-0.16	0.145	0.197
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 3	ECI 5	18900	1880	code:2	16.32	17.70	1.374	-	-	0.05	0.146	0.201
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	18900	1880	code:2	16.37	17.70	1.358	-	-	-0.03	0.194	0.263
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECI 5	18900	1880	code:2	16.32	17.70	1.374	-	-	0.17	0.107	0.147
	LTE Band 2	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECI 5	18900	1880	code:2	16.37	17.70	1.358	-	-	0.05	0.055	0.075
	LTE Band 2	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECI 5	18900	1880	code:2	16.32	17.70	1.374	-	-	-0.06	0.052	0.071
	LTE Band 2 other pa	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	18900	1880	code:2	16.33	17.70	1.371	-	-	-0.13	0.187	0.256
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	18900	1880	-	18.61	20.00	1.377	-	-	0.01	0.224	0.308
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	18900	1880	-	18.43	20.00	1.435	-	-	-0.01	0.232	0.333
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	18900	1880	-	18.61	20.00	1.377	-	-	-0.06	0.294	0.405
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	18900	1880	-	18.43	20.00	1.435	-	-	-0.04	0.293	0.420
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	18900	1880	-	18.61	20.00	1.377	-	-	-0.09	0.103	0.142
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	18900	1880	-	18.43	20.00	1.435	-	-	-0.17	0.104	0.149
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 4	ECI 5	18900	1880	-	18.61	20.00	1.377	-	-	-0.17	0.555	0.764
57	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 4	ECI 5	18700	1860	-	18.38	20.00	1.452	-	-	-0.1	0.527	0.765
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 4	ECI 5	19100	1900	-	18.57	20.00	1.390	-	-	-0.04	0.482	0.670
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 4	ECI 5	18900	1880	-	18.43	20.00	1.435	-	-	-0.05	0.501	0.719
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 4	ECI 5	18900	1880	-	18.28	20.00	1.486	-	-	-0.01	0.499	0.742
	LTE Band 2 other pa	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 4	ECI 5	18700	1860	-	18.56	20.00	1.393	-	-	-0.09	0.332	0.462
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECI 5	18900	1880	-	17.19	18.50	1.352	-	-	0.05	0.203	0.274
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECI 5	18900	1880	-	17.05	18.50	1.396	-	-	0.02	0.199	0.278
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 5	18900	1880	-	17.19	18.50	1.352	-	-	-0.13	0.289	0.391
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 5	18900	1880	-	17.05	18.50	1.396	-	-	0.17	0.278	0.388