

FCC SAR Test Report

APPLICANT : Relay, Inc.
EQUIPMENT : Relay
BRAND NAME : RelayM
MODEL NAME : RY2267
FCC ID : 2AMBHRY2267
STANDARD : FCC 47 CFR Part 2 (2.1093)

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

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



Approved by: Si Zhang

Sporton International Inc. (Kunshan)

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



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA250505	Rev. 01	Initial issue of report	Feb. 24, 2025

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Relay, Inc., Relay, RY2267**, are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		In Front of Face (Separation 5mm)	Hotspot (Separation 5mm)	Body (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	LTE	LTE Band 7	0.53	1.04	0.53	1.59
		LTE Band 12	0.79	1.12	0.83	
		LTE Band 13	0.90	1.14	1.14	
		LTE Band 14	0.93	1.08	1.08	
		LTE Band 25/2	1.04	1.04	1.04	
		LTE Band 26/5	0.93	1.09	1.09	
		LTE Band 30	0.45	0.57	0.45	
		LTE Band 66/4	0.75	1.16	0.75	
		LTE Band 71	0.91	1.07	0.91	
		LTE Band 41/38	1.06	1.06	1.06	
		LTE Band 48	0.11	0.61	0.55	
	FR1	FR1 n2	0.49	0.68	0.49	
		FR1 n25	1.08	1.08	1.08	
		FR1 n7	0.56	0.98	0.56	
		FR1 n12	0.77	0.82	0.82	
		FR1 n13	0.62	0.71	0.71	
		FR1 n14	0.96	1.17	1.17	
		FR1 n26/5	0.78	1.07	1.07	
		FR1 n30	0.41	0.68	0.41	
		FR1 n66	0.78	1.07	0.78	
		FR1 n70	0.79	1.17	0.80	
		FR1 n71	0.61	0.68	0.61	
		FR1 n41/38	0.76	1.16	0.76	
		FR1 n48	<0.10	0.62	0.46	
		FR1 n77/78	0.37	1.11	0.86	
DTS	WLAN	2.4GHz WLAN	0.39	0.39	1.58	
NII		5GHz WLAN	0.11	0.66	0.23	1.59
DSS	Bluetooth	2.4GHz Bluetooth	<0.10	<0.10	<0.10	1.59
DTS	LoRa	LoRa	1.03		1.03	-
Highest 10g SAR Summary						
Equipment Class	Frequency Band		Extremity (W/kg)		Highest Simultaneous Transmission 10g SAR (W/kg)	
			(Separation 0mm)			
NII	WLAN	5GHz WLAN	1.46		1.46	
Date of Testing:				2024/12/27 ~ 2025/2/15		
Remark:						
1. This device supports LTE B2 / B4 / B5 / B38 and B25 / B66 / B26 / B41. Since the supported frequency span for LTE B2 / B4 / B5 / B38 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25 / B66 / B26 / B41.						
2. This device supports 5GNR n2 / n5 / n38 /n78 and 5GNR n25 / n26 / n41 / n77. Since the supported frequency span for 5GNR n2 / n5 / n38 /n78 falls completely within the supports frequency span for 5GNR n25 / n26 / n41 / n77, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for 5GNR n25 / n26 / n41 / n77.						

Declaration of Conformity:

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

Comments and Explanations:

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

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

2. Administration Data

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

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR07-KS	CN1257	314309

Applicant	
Company Name	Relay, Inc.
Address	2230 Bandmate Way, Suite 500, Raleigh, NC 27607, USA

Manufacturer	
Company Name	Relay, Inc.
Address	2230 Bandmate Way, Suite 500, Raleigh, NC 27607, USA

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02



4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Relay
Brand Name	RelayM
Model Name	RY2267
FCC ID	2AMBHRY2267
S/N	388BE9CC
Wireless Technology and Frequency Range	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14: 788 MHz ~ 798 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n30: 2305 MHz ~ 2315 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70: 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz 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 LoRa DTS: 904 MHz ~ 926 MHz UWB: 7987.2MHz
Mode	LTE: QPSK, 16QAM, 64QAM, (256QAM for B41 only) 5G NR: CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160

	WLAN 6GHz 802.11a WLAN 6GHz 802.11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC:ASK Lora UWB: BPM-BPSK
HW Version	v01
EUT Stage	Identical Prototype

Remark:

1. This device WLAN 2.4GHz supports hotspot operation and Bluetooth support tethering applications.
2. 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). LoRa and WLAN 6GHz have no hotspot function.
3. The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode.
4. The device implements proximity sensors trigger reduced power for the power management for SAR compliance at different exposure conditions (body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level, which are provided in the operational description.
5. For LTE Band 41 support up to 256QAM, all other LTE bands support up to 64QAM.
6. LTE Band 41 and 5GNR n41/77/n78 supports HPUE only, HPUE power and SAR testing performed separately.
7. 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 test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
8. For 5GNR EN-DC mode, standalone SAR performed for 5GNR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
9. For LoRa, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
10. The UWB output power is -18.5dBm and it is less than 1mW and exempt from power density testing.
11. This device has NFC function and the NFC SAR report will be separately submitted.
12. 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.
13. This device has PTT (Push-To-Talk) function, so in-front-of the face SAR has been evaluated with 5mm distance using head liquid under the flat phantom.
14. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode.

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 30, 40
	n71	FDD	15	5, 10, 15, 20
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 80, 90, 100
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
SA	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40
	n12	FDD	15	5, 10, 15
	n13	FDD	15	5, 10
	n14	FDD	15	5, 10
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
	n26	FDD	15	5, 10, 15, 20
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 30, 40
	n70	FDD	15	5, 10, 15
	n71	FDD	15	5, 10, 15, 20
	n38	TDD	30	10, 15, 20, 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	2AMBHRY2267																																																																												
Equipment Name	Relay																																																																												
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																																												
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																																												
Uplink Modulations used	LTE: QPSK, 16QAM, 64QAM, (256QAM for B41 only)																																																																												
LTE Voice / Data requirements	Data only																																																																												
LTE Release Version	R12																																																																												
CA Support	Not Supported																																																																												
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>							Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
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	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																																							
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																																						
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																						
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																																						
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																																						
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																																						
256 QAM	≥ 1						≤ 5																																																																						
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																																												
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																												
Power reduction applied to satisfy SAR compliance	Yes, when operating in Proximity sensors/hotspot detect mechanism; head/body-worn/hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 13.																																																																												

Transmission (H, M, L) channel numbers and frequencies in each LTE band														
LTE Band 2														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860		
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880		
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900		
LTE Band 4														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720		
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5		
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745		
LTE Band 5														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	20407	824.7	20415	825.5	20425	826.5	20450	829						
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5						
H	20643	848.3	20635	847.5	20625	846.5	20600	844						
LTE Band 7														
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510						
M	21100	2535	21100	2535	21100	2535	21100	2535						
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560						
LTE Band 12														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	23017	699.7	23025	700.5	23035	701.5	23060	704						
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5						
H	23173	715.3	23165	714.5	23155	713.5	23130	711						
LTE Band 13														
	Bandwidth 5 MHz				Bandwidth 10 MHz									
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)							
L	23205		779.5		23230		782							
M	23230		782											
H	23255		784.5											
LTE Band 14														
	Bandwidth 5 MHz				Bandwidth 10 MHz									
	Channel #		Channel #		Channel #		Freq.(MHz)							
L	23305		790.5		23330		793							
M	23330		793											
H	23355		795.5											



LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5	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 30												
	Bandwidth 5 MHz					Bandwidth 10 MHz						
	Channel #		Freq.(MHz)			Channel #			Freq.(MHz)			
L	27685		2307.5			27710			2310			
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580	37850	2580	37850	2580
M	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610	38150	2610	38150	2610
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506	39750	2506	39750	2506
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5	40185	2549.5	40185	2549.5
M	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5	41055	2636.5	41055	2636.5
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680	41490	2680	41490	2680
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133147	665.5	133172	668	133197	670.5	133222	673	133222	673	133222	673
M	133247	675.5	133272	678	133297	680.5	133322	683	133322	683	133322	683
H	133447	695.5	133422	693	133397	690.5	133372	688	133372	688	133372	688

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

<For LTE Overlap Bands Description>

1) LTE Bands BW

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

2) LTE Bands tune up:

Band	Antenna	Sensor On	Sensor Off	Default
		Tune-up Limit	Tune-up Limit	Tune-up Limit
LTE Band 2 NSA	Ant 1	16	25	25
LTE Band 2	Ant 1	18	25	25
LTE Band 25	Ant 1	18	25	25
LTE Band 4	Ant 1	20	25	25
LTE Band 66	Ant 1	20	25	25
LTE Band 5 NSA	Ant 1	22	25	25
LTE Band 5	Ant 1	24	25	25
LTE Band 26	Ant 1	24	25	25
LTE Band 38	Ant 1	17.5	25	25
LTE Band 41 HPUE	Ant 1	17.5	28	28
LTE Band 2 NSA	Ant 2	18	24	24
LTE Band 25 NSA	Ant 2	18	24	24

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 n13: 777 MHz ~ 787 MHz													
	5G NR n14: 788 MHz ~ 798 MHz													
	5G NR n25: 1850 MHz ~ 1915 MHz													
	5G NR n26: 814 MHz ~ 849 MHz													
	5G NR n30: 2305 MHz ~ 2315 MHz													
	5G NR n38: 2570 MHz ~ 2620 MHz													
	5G NR n41: 2496 MHz ~ 2690 MHz													
	5G NR n48: 3550 MHz ~ 3700 MHz													
	5G NR n66: 1710 MHz ~ 1780 MHz													
	5G NR n70: 1695 MHz ~ 1710 MHz													
5G NR n71: 663 MHz ~ 698 MHz														
5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz														
5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz														
Channel Bandwidth	The detail please refers to section 4.1 5GNR FR1 bands table.													
SCS	FDD: SCS15KHz, TDD: SCS30KHz													
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM													
A-MPR (Additional MPR) disabled for SAR Testing?	Yes													
LTE Anchor Bands for n2	LTE B5/12/13/14/66/30													
LTE Anchor Bands for n5	LTE B2/66/30													
LTE Anchor Bands for n25	LTE B66													
LTE Anchor Bands for n30	LTE B2/12/14/66													
LTE Anchor Bands for n66	LTE B2/5/12/13/30													
LTE Anchor Bands for n71	LTE B2/66													
LTE Anchor Bands for n41	LTE B66/25													
LTE Anchor Bands for n77	LTE B2/5/12/13/66													
LTE Anchor Bands for n78	LTE B2/5/12/66/7													
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	
	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
M	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
NR Band 12														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 15MHz		Bandwidth 15MHz		Bandwidth 15MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	140300	701.5			140800			704		141300			706.5	
M	141500			707.5		141500		707.5		141500			707.5	
H	142700			713.5		142200		711		141700			708.5	



NR Band 13					
Bandwidth 5MHz			Bandwidth 10MHz		
Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)
L	155900	779.5	156400		782
M	156400	782			
H	156900	784.5			

NR Band 14					
Bandwidth 5MHz			Bandwidth 10MHz		
Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)
L	158100	790.5	158600		793
M	158600	793			
H	159100	795.5			

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

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

NR Band 30					
Bandwidth 5MHz			Bandwidth 10MHz		
Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)
L	461500	2307.5	462000		2310
M	462000	2310			
H	462500	2312.5			

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

NR Band 70						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	339500	1697.5	340000	1700	340500	1702.5
M	340500	1702.5	340500	1702.5		
H	341500	1707.5	341000	1705		

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

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

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



NR Band48								
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 40MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M 656000	3840	656000	3840	656000	3840	656000	3840	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H 665000	3975	664832	3972.48	664666	3969.99	664500	3967.5	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930

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

For <3450 MHz ~ 3550 MHz >

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

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

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

Band	Duplex	SCS(KHz)	Bandwidths(BW)
n2	FDD	15	5/10/15/20
n5	FDD	15	5/10/15/20
n25	FDD	15	5/10/15/20/25/30/40
n26	FDD	15	5/10/15/20
n38	TDD	30	10/15/20/30/40
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

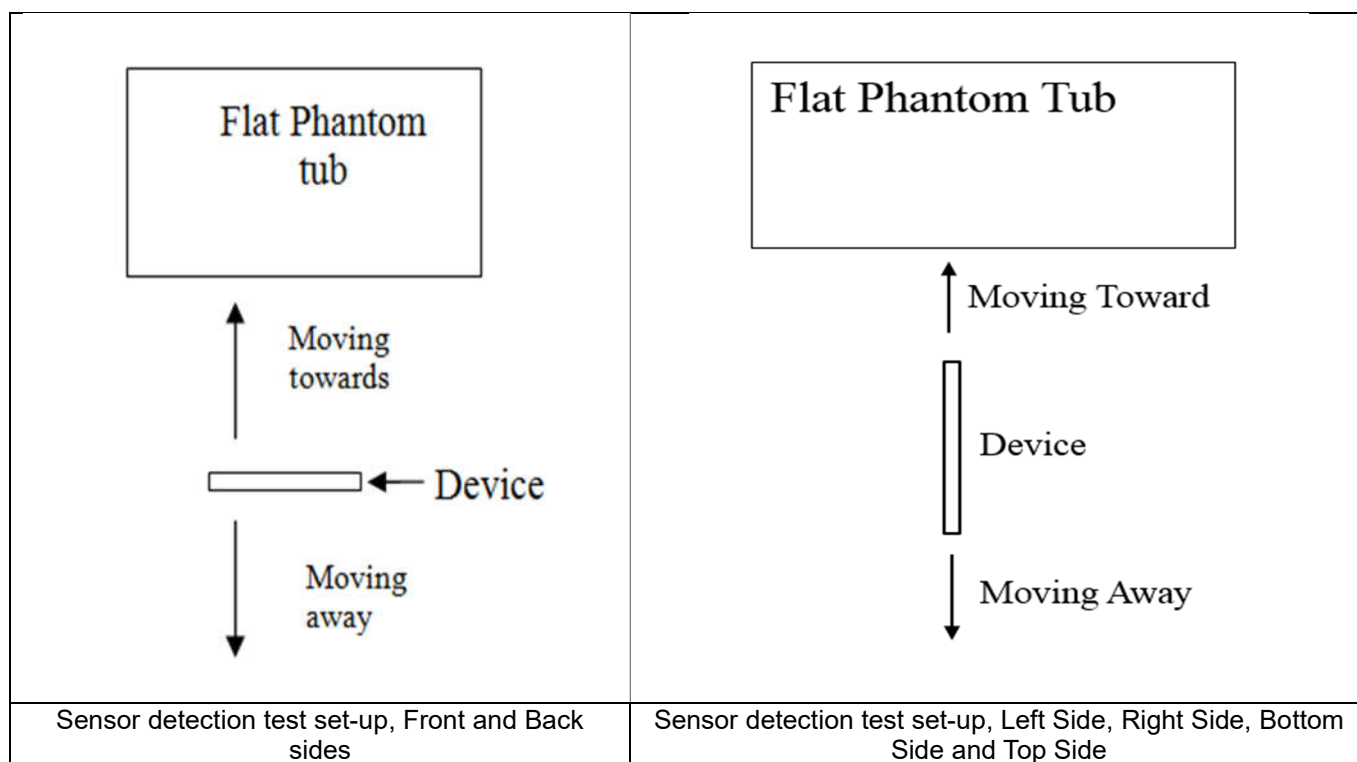
2) NR Bands Tune up:

Band	Antenna	Sensor On	Sensor Off	Default
		Tune-up Limit	Tune-up Limit	Tune-up Limit
FR1 n2 NSA	Ant 1	17	25	25
FR1 n25 NSA	Ant 1	17	25	25
5G NR n2	Ant 1	19	25	25
5G NR n25	Ant 1	19	25	25
FR1 n5 NSA	Ant 1	20.5	24	24
5G NR n5	Ant 1	23	24	24
5G NR n26	Ant 1	23	24	24
FR1 n38	Ant 1	23.5	26	26
FR1 n41 PC2	Ant 1	23.5	28	28
FR1 n41 PC2 NSA	Ant 1	21.5	28	28
FR1 N77 HPUE	Ant 1	18	27	27
FR1 N78 HPUE	Ant 1	18	27	27
FR1 N77 HPUE	Ant 2	19	27.5	27.5
FR1 N78 HPUE	Ant 2	19	27.5	27.5
FR1 N77 HPUE	Ant 8	14.5	27	27
FR1 N78 HPUE	Ant 8	14.5	27	27
FR1 N77 HPUE NSA	Ant 8	12.5	27	27
FR1 N78 HPUE NSA	Ant 8	12.5	27	27
FR1 N77 HPUE	Ant 9	19	27	27
FR1 N78 HPUE	Ant 9	19	27	27
FR1 N77 HPUE NSA	Ant 9	19	27	27
FR1 N78 HPUE NSA	Ant 9	19	27	27

5. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (3890MHz) and lowest frequency (750MHz) was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the device 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 bottom or left or top side of the device. There is no need to do sensor coverage testing for the proximity sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the proximity sensor entirely covers the antenna.
3. The sensors can use to detect the proximity of the user's body or handheld states at the front or back or bottom or left or top side of the device use a detection threshold distance. When front/back/right/left/top/bottom 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 on for Ant 1/2/8/9>

Proximity Sensor Triggering Distance (mm)												
Position	Front		Back		Left Side		Right Side		Top Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	32	37	31	36	33	37	21	26	31	36	32	35

6. RF Exposure Limits

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

7. Specific Absorption Rate (SAR)

7.1 Introduction

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

7.2 SAR Definition

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

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

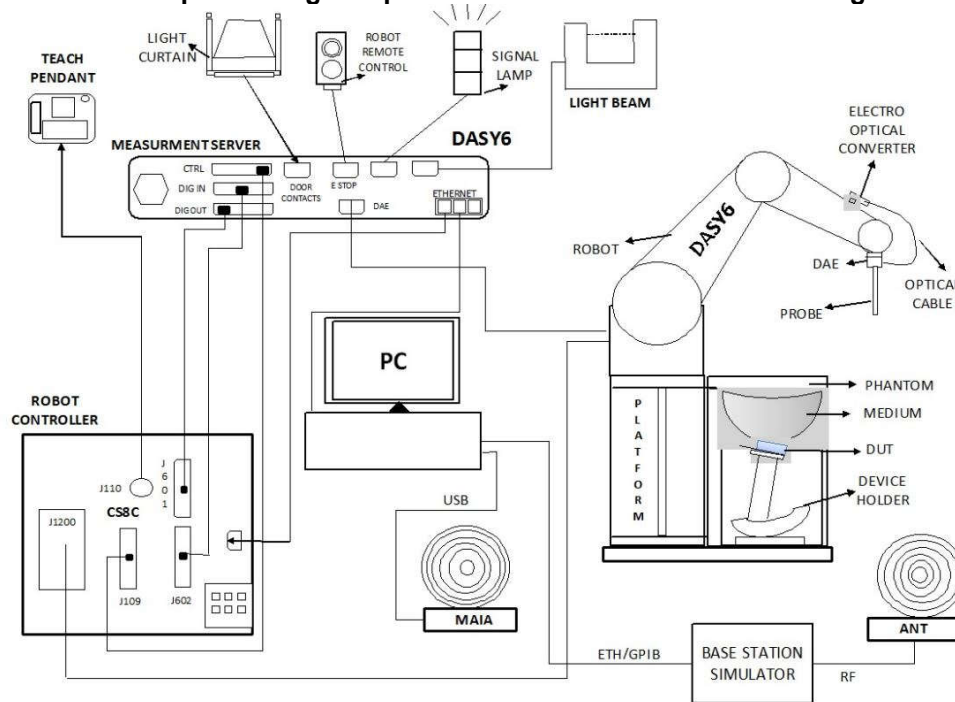
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

8. System Description and Setup

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



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

8.1 E-Field Probe

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

<EX3DV4 Probe>

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

8.2 Data Acquisition Electronics (DAE)

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

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



Photo of DAE

8.3 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

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

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

8.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

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



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

9. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

9.1 Spatial Peak SAR Evaluation

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

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

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

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

9.2 Power Reference Measurement

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

9.3 Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

9.4 Zoom Scan

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

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

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

9.5 Volume Scan Procedures

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

9.6 Power Drift Monitoring

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

10. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	2022/2/24	2025/2/22
SPEAG	835MHz System Validation Kit	D835V2	4d298	2024/1/26	2025/1/25
SPEAG	900MHz System Validation Kit	D900V2	1d186	2022/2/3	2025/2/1
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2022/2/24	2025/2/22
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	2022/3/30	2025/3/28
SPEAG	2300MHz System Validation Kit	D2300V2	1055	2023/8/21	2026/8/20
SPEAG	2450MHz System Validation Kit	D2450V2	1095	2024/2/8	2025/2/7
SPEAG	2600MHz System Validation Kit	D2600V2	1112	2023/12/18	2026/12/17
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2023/11/20	2026/11/19
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2023/11/20	2026/11/19
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2023/3/9	2026/3/8
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2025/9/21
SPEAG	Data Acquisition Electronics	DAE4	1649	2024/7/3	2025/7/2
SPEAG	Dosimetric E-Field Probe	EX3DV4	7706	2024/1/24	2025/1/23
SPEAG	Dosimetric E-Field Probe	EX3DV4	7774	2024/6/27	2025/6/26
SPEAG	SAM Twin Phantom	SAM Twin	TP-2024	NCR	NCR
CHIGO	Thermo-Hygrometer	HTC-1	55009	2024/5/15	2025/5/14
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2024/7/4	2025/7/3
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	2024/7/4	2025/7/3
SPEAG	Dielectric Probe Kit	DAK-3.5	1144	2024/8/20	2025/8/19
Anritsu	Vector Signal Generator	MG3710A	6201682672	2024/1/2	2025/1/1
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	2024/1/4	2025/1/3
TES	DIGITAC THERMOMETER	TYPE-K	220305411	2025/1/2	2026/1/1
ARRA	Power Divider	A3200-2	N/A	Note 1	
MCL	Attenuation1	BW-S10W5+	N/A	Note 1	
MCL	Attenuation2	BW-S10W5+	N/A	Note 1	
MCL	Attenuation3	BW-S10W5+	N/A	Note 1	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	

Note:

- Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
- The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

11. System Verification

11.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.1. 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. 10.2.

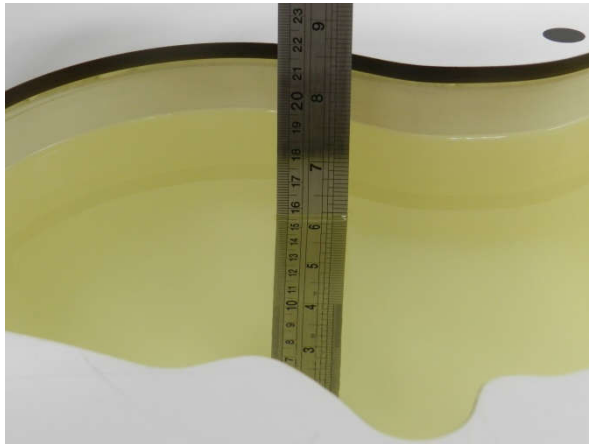


Fig 10.1Photo of Liquid Height for Head SAR



Fig 10.2 Photo of Liquid Height for Body SAR

11.2 Tissue Verification

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

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (ϵ_r)
For Head								
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	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	22.7	0.926	42.4	0.89	41.90	4.04	1.19	±5	2024/12/27
835	Head	22.7	0.935	42.1	0.90	41.50	3.89	1.45	±5	2024/12/27
1750	Head	22.7	1.38	40.3	1.37	40.10	0.73	0.50	±5	2024/12/28
1900	Head	22.8	1.45	40.0	1.40	40.00	3.57	0.00	±5	2024/12/28
2300	Head	22.8	1.71	39.5	1.67	39.50	2.40	0.00	±5	2024/12/29
2600	Head	22.8	1.94	39.1	1.96	39.00	-1.02	0.26	±5	2024/12/29
3500	Head	22.6	2.81	39.0	2.91	37.90	-3.44	2.90	±5	2025/2/11
3700	Head	22.6	2.99	38.7	3.12	37.70	-4.17	2.65	±5	2025/2/13
3900	Head	22.6	3.25	37.8	3.32	37.50	-2.11	0.80	±5	2025/2/15
5250	Head	22.8	4.73	36.0	4.71	35.90	0.42	0.28	±5	2024/12/31
5600	Head	22.8	5.15	35.3	5.07	35.50	1.58	-0.56	±5	2025/1/1
5750	Head	22.8	5.32	35.0	5.22	35.40	1.92	-1.13	±5	2025/1/1
2450	Head	22.8	1.86	38.5	1.80	39.20	3.33	-1.79	±5	2025/1/1
900	Head	22.8	0.971	41.9	0.97	41.50	0.10	0.96	±5	2024/12/27

11.3 System Performance Check Results

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

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2024/12/27	750	Head	50	1087	7706	1649	0.399	8.58	7.98	-6.99
2024/12/27	835	Head	50	4d298	7706	1649	0.457	9.89	9.14	-7.58
2024/12/28	1750	Head	50	1090	7706	1649	1.95	37.00	39	5.41
2024/12/28	1900	Head	50	5d118	7706	1649	1.83	39.30	36.6	-6.87
2024/12/29	2300	Head	50	1055	7706	1649	2.41	48.40	48.2	-0.41
2024/12/29	2600	Head	50	1112	7706	1649	2.62	55.10	52.4	-4.90
2025/2/11	3500	Head	50	1037	7774	1649	3.12	65.40	62.4	-4.59
2025/2/13	3700	Head	50	1008	7774	1649	3.11	67.20	62.2	-7.44
2025/2/15	3900	Head	50	1048	7774	1649	3.18	69.10	63.6	-7.96
2024/12/31	5250	Head	50	1113	7706	1649	3.88	81.50	77.6	-4.79
2025/1/1	5600	Head	50	1113	7706	1649	4.04	82.60	80.8	-2.18
2025/1/1	5750	Head	50	1113	7706	1649	4.10	80.80	82	1.49
2025/1/1	2450	Head	50	1095	7706	1649	2.61	52.60	52.2	-0.76
2024/12/27	900	Head	50	1d186	7706	1649	0.538	10.90	10.76	-1.28

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2024/12/27	750	Head	50	1087	7706	1649	0.273	5.65	5.46	-3.36
2024/12/27	835	Head	50	4d298	7706	1649	0.303	6.45	6.06	-6.05
2024/12/28	1750	Head	50	1090	7706	1649	1.01	19.50	20.2	3.59
2024/12/28	1900	Head	50	5d118	7706	1649	0.96	20.40	19.2	-5.88
2024/12/29	2300	Head	50	1055	7706	1649	1.15	23.70	23	-2.95
2024/12/29	2600	Head	50	1112	7706	1649	1.22	24.80	24.4	-1.61
2025/2/11	3500	Head	50	1037	7774	1649	1.25	24.70	25	1.21
2025/2/13	3700	Head	50	1008	7774	1649	1.21	24.40	24.2	-0.82
2025/2/15	3900	Head	50	1048	7774	1649	1.19	24.10	23.8	-1.24
2024/12/31	5250	Head	50	1113	7706	1649	1.25	23.30	25	7.30
2025/1/1	5600	Head	50	1113	7706	1649	1.15	23.70	23	-2.95
2025/1/1	5750	Head	50	1113	7706	1649	1.21	23.00	24.2	5.22
2025/1/1	2450	Head	50	1095	7706	1649	1.26	24.70	25.2	2.02
2024/12/27	900	Head	50	1d186	7706	1649	0.351	7.02	7.02	0.00

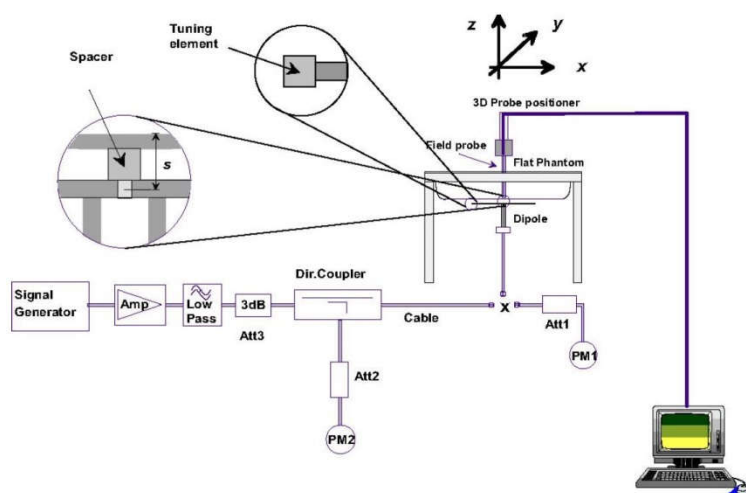


Fig 10.3.1 System Performance Check Setup



Fig 10.3.2 Setup Photo

12. RF Exposure Positions

12.1 SAR Testing for Relay

- (a) To position the device parallel to the phantom surface with in front of face surfaces of the device.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 5 mm.

12.2 Body SAR Testing for Device

- (a) To position the device parallel to the phantom surface with front and back of the device.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 5 mm.

12.3 Extremity SAR Testing for Device

- (b) To position the device parallel to the phantom surface with all surfaces of the device.
- (c) To adjust the device parallel to the flat phantom.
- (d) To adjust the distance between the device surface and the flat phantom to 0 mm.

12.4 Wireless Router

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

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

Please refer to Appendix D for the test setup photos.

13. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<LTE Conducted Power>

General Note:

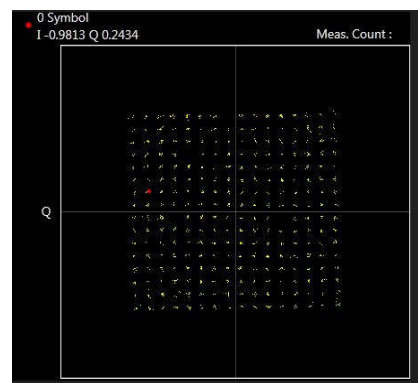
1. Anritsu MT8821C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested 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 output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 2 / 4 / 5 / 38 SAR test was covered by Band 25 / 66 / 26 / 41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to May 2017 TCB workshop, for 16QAM and 64QAM, 256QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 256QAM, 64QAM and 16QAM signal modulation are correct.



16QAM



64QAM



256QAM

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

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

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

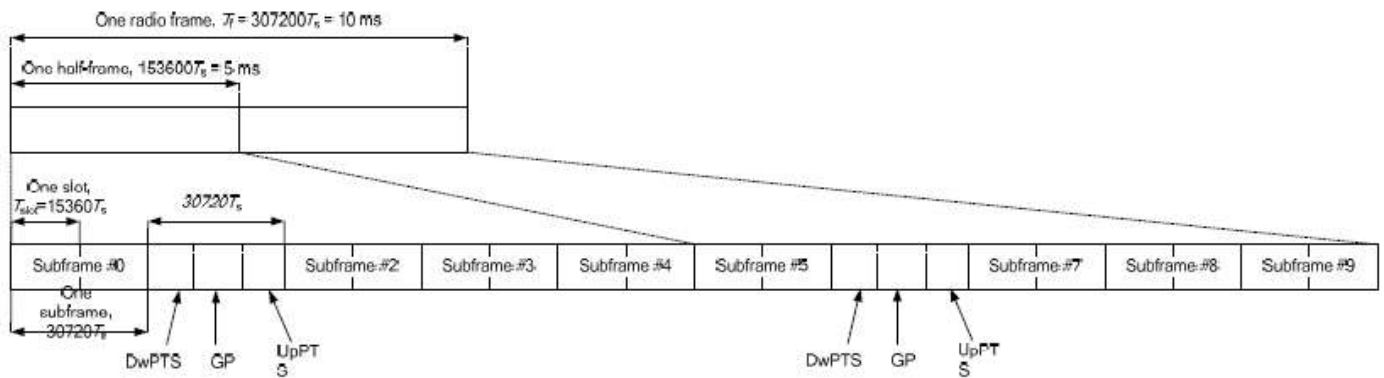


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

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

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

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

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

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

The highest duty factor is resulted from:

For LTE TDD Power class 2

- Uplink-downlink configuration: 1. In a half-frame consisted of 5 subframes, uplink operation is in 2 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(2+0.167)/5 = 43.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(2+0.143)/5 = 42.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $43.3\%/42.9\% = 1.009$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

For LTE TDD Power class 3

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

The device can adjust uplink/downlink configuration automatically according to the transmitting power class level, as followings:

LTE TDD Band	Power Class level	support uplink/downlink configuration
LTE Band 41	> 23	1,2,3,4,5
	=23	0,1,2,3,4,5,6
	< 23	0,1,2,3,4,5,6

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n25/n30/n66/n71/n41/n77/n78 is NSA mode.
2. 5G NR n2/n5/n7/n12/n13/n14/n25/n26/n30/n66/n70/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-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power 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. This device supports HPUE mode for 5G NR n41/n77/n78 only.
5. 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 test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
6. 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.
7. 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.
8. 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.
9. 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.
10. For 5G NR EN-DC mode, standalone SAR performed for 5G NR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5G NR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.

<3GPP 38.101 MPR for EN-DC>

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0^2
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

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

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

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

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

**<EN-DC combination>:**

ENDC	Main Antenna Tx	
	LTE TX	NR TX
DC_2A_n5A	ANT2	ANT1
DC_2A_n30A	ANT1	ANT9
DC_2A_n71A	ANT2	ANT1
DC_2A_n66A	ANT1	ANT2
DC_2A_n78A	ANT1	ANT9
DC_2A_n77A	ANT1	ANT9
DC_5A_n2A	ANT1	ANT2
DC_5A_n66A	ANT1	ANT2
DC_5A_n78A	ANT1	ANT9
DC_5A_n77A	ANT1	ANT9
DC_12A_n2A	ANT1	ANT2
DC_12A_n30A	ANT1	ANT9
DC_12A_n78A	ANT1	ANT9
DC_12A_n66A	ANT1	ANT2
DC_12A_n77A	ANT1	ANT9
DC_13A_n66A	ANT1	ANT2
DC_13A_n77A	ANT1	ANT9
DC_13A_n2A	ANT1	ANT2
DC_14A_n2A	ANT1	ANT2
DC_14A_n30A	ANT1	ANT9
DC_66A_n2A	ANT2	ANT1
DC_66A_n5A	ANT2	ANT1
DC_66A_n25A	ANT2	ANT1
DC_66A_n30A	ANT2	ANT9
DC_66A_n41A	ANT2	ANT1
DC_66A_n71A	ANT2	ANT1
DC_66A_n78A	ANT2	ANT8
DC_66A_n77A	ANT2	ANT8
DC_30A_n2A	ANT9	ANT1
DC_30A_n5A	ANT9	ANT1
DC_30A_n66A	ANT9	ANT1
DC_7A_n78A	ANT1	ANT9
DC_25A_n41A	ANT2	ANT8

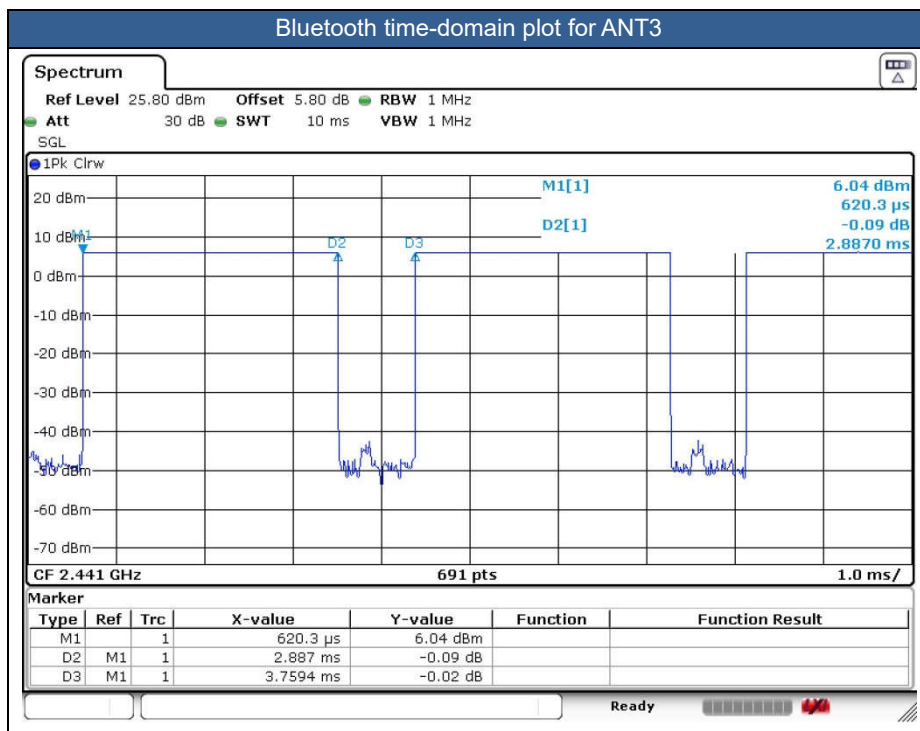
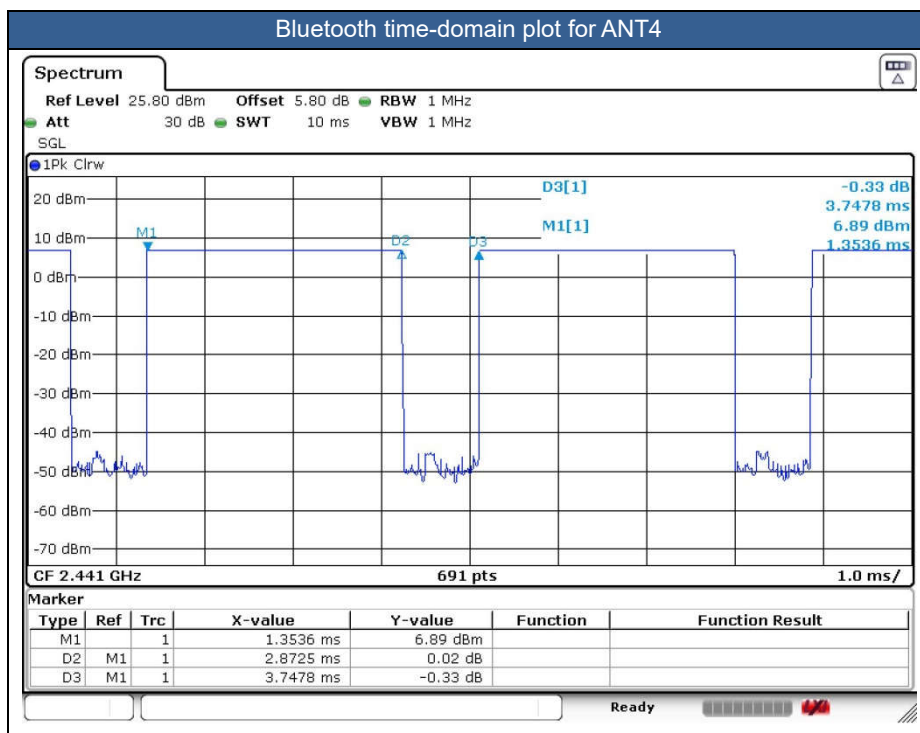
<WLAN Conducted Power>**General Note:**

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration. Additional output power measurements were not necessary.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
6. 802.11 ax supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.
7. The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode.
8. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing.
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 76.64% for ANT4, 76.79% for ANT3 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.



<LoRa>





14. Antenna Location

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

15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
 - d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - e. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor.
 - f. For LoRa: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor* Transmission duty cycle factor.
 - g. The transmission duty cycle for LoRa is 100% for full power, 50% for sensor on declared by Manufacturer.
 - h. 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 Reported TDD LTE SAR (W/kg) = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
 - i. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. Referring to KDB 941225 D06 v02r01, when the overall device length and width are $< 9\text{cm} \times 5\text{cm}$, the test distance is 5 mm. SAR must be measured for all sides and surfaces.
5. For this device SAR for WLAN transmitter scaled to maximum output power mode for Extremity SAR is higher than 1.2W/kg of WLAN 5.2GHz therefore Extremity SAR is necessary.
6. WLAN 5.3/5.5GHz tested the Extremity SAR since it has no hotspot mode.
7. When Extremity SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
8. For distance SAR and non-distance SAR always chose higher SAR to do co-located analysis.
9. This device has PTT (Push-To-Talk) function, so in-front-of the face SAR has been evaluated with 5mm distance using head liquid under the flat phantom.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2 / 4 / 5 / 38 SAR test was covered by Band 25 / 66 / 26 / 41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - e. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - f. For 5G FR1 n5 /n7/n12/ n25/n26 /n66 /n71/n38/n41/n48 /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 Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. 802.11ax supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
7. The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode.
8. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing.
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.



15.1 In Front of Face SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
750MHz																				
01	LTE Band 12 SA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Full Power	23095	707.5	23.41	24.00	1.146	-	-	0.08	0.692	0.793
	LTE Band 12 SA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Full Power	23095	707.5	22.42	23.00	1.143	-	-	0.01	0.659	0.753
	LTE Band 12 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23095	707.5	20.99	21.50	1.125	-	-	0.08	0.420	0.472
	LTE Band 12 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23095	707.5	20.95	21.50	1.135	-	-	0.01	0.382	0.434
02	LTE Band 13 SA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.11	0.764	0.904
	LTE Band 13 SA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Full power	23230	782	23.24	24.00	1.191	-	-	-0.05	0.666	0.793
	LTE Band 13 SA	10M	QPSK	50	0	-	Front	5mm	Ant 1	Full power	23230	782	23.34	24.00	1.164	-	-	0.05	0.651	0.758
	LTE Band 13 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23230	782	21.36	22.00	1.159	-	-	-0.05	0.429	0.497
	LTE Band 13 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23230	782	21.35	22.00	1.161	-	-	0.18	0.374	0.434
03	LTE Band 14 SA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23330	793	24.21	24.50	1.069	-	-	0.05	0.865	0.925
	LTE Band 14 SA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23330	793	23.68	24.00	1.076	-	-	0.06	0.667	0.718
	LTE Band 14 SA	10M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	23330	793	23.58	24.00	1.102	-	-	0.01	0.648	0.714
	LTE Band 14 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23330	793	21.25	21.50	1.059	-	-	0.06	0.455	0.482
	LTE Band 14 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23330	793	21.19	21.50	1.074	-	-	-0.09	0.412	0.442
04	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	Full power	133322	683	23.94	25.00	1.276	-	-	0.08	0.715	0.913
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	Full power	133322	683	22.88	24.00	1.294	-	-	0.01	0.558	0.722
	LTE Band 71	20M	QPSK	100	0	-	Front	5mm	Ant 1	Full power	133322	683	22.91	24.00	1.285	-	-	0.05	0.523	0.672
05	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Full power	141500	707.5	23.18	24.00	1.208	-	-	-0.18	0.636	0.768
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 1	Full power	141500	707.5	23.17	24.00	1.211	-	-	-0.09	0.617	0.747
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	156400	782	22.25	23.00	1.189	-	-	-0.02	0.422	0.502
06	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	156400	782	22.23	23.00	1.194	-	-	0.13	0.522	0.623
07	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	158600	793	22.96	24.00	1.271	-	-	0.11	0.756	0.961
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	158600	793	22.94	24.00	1.276	-	-	-0.05	0.711	0.908
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	158600	793	22.92	24.00	1.282	-	-	0.05	0.688	0.882
08	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	136100	680.5	24.44	25.00	1.138	-	-	0.03	0.539	0.613
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	136100	680.5	24.36	25.00	1.159	-	-	0.01	0.477	0.553
835MHz																				
09	LTE Band 26 SA	15M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26865	831.5	23.23	24.00	1.194	-	-	0.05	0.778	0.929
	LTE Band 26 SA	15M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26765	821.5	22.80	24.00	1.318	-	-	0.05	0.681	0.898
	LTE Band 26 SA	15M	QPSK	36	0	-	Front	5mm	Ant 1	Sensor On	26865	831.5	23.19	24.00	1.205	-	-	0.06	0.695	0.837
	LTE Band 26 SA	15M	QPSK	36	0	-	Front	5mm	Ant 1	Sensor On	26765	821.5	22.91	24.00	1.285	-	-	0.06	0.648	0.833
	LTE Band 26 SA	15M	QPSK	75	0	-	Front	5mm	Ant 1	Sensor On	26865	831.5	23.10	24.00	1.230	-	-	0.02	0.645	0.794
	LTE Band 5 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	20525	836.5	21.09	22.00	1.233	-	-	-0.13	0.487	0.601
	LTE Band 5 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	20525	836.5	21.04	22.00	1.247	-	-	0.06	0.372	0.464
10	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	167800	839	22.65	23.00	1.084	-	-	0.19	0.716	0.776
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	167800	839	22.60	23.00	1.096	-	-	0.07	0.682	0.748
1750MHz																				
11	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	132322	1745	19.22	20.00	1.197	-	-	-0.08	0.626	0.749
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	132322	1745	19.18	20.00	1.208	-	-	-0.13	0.524	0.633
	LTE Band 66 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	132322	1745	18.79	19.00	1.050	-	-	-0.09	0.318	0.334
	LTE Band 66 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 2	Sensor On	132322	1745	18.76	19.00	1.057	-	-	0.11	0.294	0.311
12	FR1 n66 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	19.38	20.50	1.294	-	-	0.16	0.605	0.783
	FR1 n66 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	19.36	20.50	1.300	-	-	-0.03	0.555	0.722
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	17.51	18.50	1.256	-	-	0.08	0.395	0.496
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	17.49	18.50	1.262	-	-	0.01	0.493	0.622
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	349000	1745	18.97	20.00	1.268	-	-	-0.05	0.347	0.440
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	349000	1745	18.95	20.00	1.274	-	-	0.18	0.355	0.452



FCC SAR Test Report

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13	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	340500	1702.5	18.40	19.50	1.288	-	-	0.08	0.613	0.790
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	340500	1702.5	18.36	19.50	1.300	-	-	0.01	0.594	0.772
1900MHz																				
	LTE Band 25 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26340	1880	17.53	18.00	1.114	-	-	0.11	0.863	0.962
	LTE Band 25 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26140	1860	17.22	18.00	1.197	-	-	-0.05	0.852	1.020
14	LTE Band 25 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26590	1905	17.23	18.00	1.194	-	-	0.18	0.870	1.039
	LTE Band 25 SA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	26340	1880	17.41	18.00	1.146	-	-	0.14	0.603	0.691
	LTE Band 25 SA	20M	QPSK	100	0	-	Front	5mm	Ant 1	Sensor On	26340	1880	17.40	18.00	1.148	-	-	-0.17	0.605	0.695
	LTE Band 2 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	18900	1880	15.39	16.00	1.151	-	-	-0.13	0.485	0.558
	LTE Band 2 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	18900	1880	15.35	16.00	1.161	-	-	0.06	0.398	0.462
	LTE Band 25 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	26340	1880	17.81	18.00	1.045	-	-	-0.09	0.412	0.430
	LTE Band 25 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	26140	1860	17.47	18.00	1.130	-	-	-0.08	0.429	0.485
	LTE Band 25 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	26590	1905	17.76	18.00	1.057	-	-	0.13	0.399	0.422
	LTE Band 25 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 2	Sensor On	26340	1880	17.78	18.00	1.052	-	-	0.12	0.381	0.401
	LTE Band 25 NSA	20M	QPSK	100	0	-	Front	5mm	Ant 2	Sensor On	26340	1880	17.75	18.00	1.059	-	-	0.03	0.404	0.428
	FR1 n25 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	18.08	19.00	1.236	-	-	-0.18	0.752	0.929
15	FR1 n25 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	18.07	19.00	1.239	-	-	0.03	0.871	1.079
	FR1 n25 SA	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	18.05	19.00	1.245	-	-	-0.15	0.797	0.992
	FR1 n25 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	16.46	17.00	1.132	-	-	-0.13	0.464	0.525
	FR1 n25 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	16.41	17.00	1.146	-	-	0.07	0.537	0.615
16	FR1 n2 NSA	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	376000	1880	18.24	19.00	1.191	-	-	-0.08	0.414	0.493
	FR1 n2 NSA	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	376000	1880	18.21	19.00	1.199	-	-	-0.13	0.408	0.489
2300MHz																				
17	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 9	Sensor On	27710	2310	16.73	17.50	1.194	-	-	-0.04	0.375	0.448
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 9	Sensor On	27710	2310	16.69	17.50	1.205	-	-	0.13	0.257	0.310
18	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 9	Sensor On	462000	2310	16.08	17.00	1.236	-	-	-0.08	0.332	0.410
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 9	Sensor On	462000	2310	16.05	17.00	1.245	-	-	-0.08	0.213	0.265
2600MHz																				
19	LTE Band 7 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	13.65	14.50	1.216	-	-	-0.18	0.436	0.530
	LTE Band 7 SA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	13.61	14.50	1.227	-	-	0.1	0.372	0.457
	LTE Band 7 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	11.71	12.50	1.199	-	-	-0.05	0.284	0.341
	LTE Band 7 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	11.68	12.50	1.208	-	-	-0.15	0.243	0.293
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	40620	2593	16.49	17.50	1.262	42.9	1.009	-0.09	0.702	0.894
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	39750	2506	16.10	17.50	1.380	42.9	1.009	-0.05	0.676	0.942
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	40185	2549.5	16.18	17.50	1.355	42.9	1.009	-0.08	0.682	0.933
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	41055	2636.5	16.29	17.50	1.321	42.9	1.009	0.16	0.636	0.848
20	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	41490	2680	16.17	17.50	1.358	42.9	1.009	0.05	0.774	1.061
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	40620	2593	16.45	17.50	1.274	42.9	1.009	0.05	0.577	0.741
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	39790	2510	16.14	17.50	1.368	42.9	1.009	0.1	0.545	0.752
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	39750	2506	16.06	17.50	1.393	42.9	1.009	-0.17	0.512	0.720
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	40185	2549.5	16.24	17.50	1.337	42.9	1.009	0.04	0.533	0.719
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	41055	2636.5	16.28	17.50	1.324	42.9	1.009	-0.01	0.518	0.692
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	41490	2680	16.15	17.50	1.365	42.9	1.009	-0.08	0.520	0.716
	LTE Band 41 HPUE	20M	QPSK	100	0	-	Front	5mm	Ant 1	Sensor On	40620	2593	16.33	17.50	1.309	42.9	1.009	-0.03	0.576	0.761
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	507000	2535	14.61	15.00	1.094	-	-	-0.17	0.441	0.482
21	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	507000	2535	14.59	15.00	1.099	-	-	-0.1	0.513	0.564
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	518598	2592.99	16.59	18.00	1.384	50	1.000	-0.06	0.421	0.582
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	518598	2592.99	16.55	18.00	1.396	50	1.000	-0.14	0.303	0.423
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	14.85	16.00	1.303	50	1.000	0.08	0.454	0.592



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	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	14.81	16.00	1.315	50	1.000	0.16	0.514	0.676
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	12.99	14.00	1.262	50	1.000	-0.13	0.311	0.392
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	12.93	14.00	1.279	50	1.000	0.05	0.352	0.450
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	23.01	23.50	1.119	50	1.000	0.18	0.657	0.735
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	22.96	23.50	1.132	50	1.000	0.14	0.591	0.669
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	21.09	21.50	1.099	50	1.000	0.18	0.431	0.474
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	21.06	21.50	1.107	50	1.000	0.14	0.388	0.429
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	518598	2592.99	18.60	20.00	1.380	50	1.000	0.03	0.486	0.671
22	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	518598	2592.99	18.57	20.00	1.390	50	1.000	0.06	0.545	0.758
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	518598	2592.99	18.53	20.00	1.403	50	1.000	0.01	0.521	0.731
3500-3900MHz																				
23	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 9	Sensor On	55830	3609	21.78	22.00	1.052	62.9	1.006	-0.13	0.100	0.106
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 9	Sensor On	55830	3609	21.76	22.00	1.057	62.9	1.006	0.17	0.078	0.083
24	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	641666	3624.99	19.12	20.00	1.225	-	-	0.03	0.068	0.083
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	641666	3624.99	19.09	20.00	1.233	-	-	0.18	0.063	0.078
25	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	13.55	14.50	1.245	50	1.000	0.16	0.297	0.370
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	13.52	14.50	1.253	50	1.000	-0.15	0.207	0.259
	FR1 n77 Part 27Q NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	11.55	12.50	1.245	50	1.000	-0.03	0.191	0.238
	FR1 n77 Part 27Q NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	11.52	12.50	1.253	50	1.000	0.09	0.133	0.167
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	13.48	14.50	1.265	50	1.000	-0.08	0.136	0.172
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	13.42	14.50	1.282	50	1.000	-0.1	0.146	0.187
	FR1 n77 Part 27Q NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	11.48	12.50	1.265	50	1.000	0.18	0.093	0.118
	FR1 n77 Part 27Q NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	11.42	12.50	1.282	50	1.000	-0.19	0.100	0.128
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	656000	3840	17.81	18.00	1.045	50	1.000	0.11	0.281	0.294
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	656000	3840	17.79	18.00	1.050	50	1.000	-0.13	0.194	0.204
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	633334	3500.01	16.99	18.00	1.262	50	1.000	-0.15	0.126	0.159
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	633334	3500.01	16.95	18.00	1.274	50	1.000	-0.12	0.100	0.127
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	656000	3840	18.55	19.00	1.109	50	1.000	0.16	0.074	0.082
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	656000	3840	18.48	19.00	1.127	50	1.000	-0.1	0.075	0.085
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	-0.08	0.220	0.307
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	633334	3500.01	17.53	19.00	1.403	50	1.000	-0.04	0.172	0.241
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	656000	3840	18.15	19.00	1.216	50	1.000	0.16	0.222	0.270
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	656000	3840	18.05	19.00	1.245	50	1.000	-0.1	0.204	0.254
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	-0.15	0.258	0.360
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	633334	3500.01	17.51	19.00	1.409	50	1.000	-0.15	0.255	0.359



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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/ LORA																
26	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	-0.07	0.252	0.392
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(4)	Full power	6	2437	13.21	15.00	1.510	100	1.000	0.12	0.245	0.370
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(4)	Full power	11	2462	13.17	15.00	1.524	100	1.000	0.03	0.227	0.346
27	Bluetooth	1Mbps	Front	5mm	Ant 4	Full power	0	2402	8.48	8.50	1.005	76.64	1.087	-0.05	0.042	0.046
	Bluetooth	1Mbps	Front	5mm	Ant 4	Full power	39	2441	8.15	8.50	1.084	76.64	1.087	0.02	0.036	0.042
	Bluetooth	1Mbps	Front	5mm	Ant 4	Full power	78	2480	7.72	8.00	1.067	76.64	1.087	0.03	0.033	0.038
	Bluetooth	1Mbps	Front	5mm	Ant 3	Full power	0	2402	7.81	8.00	1.045	76.79	1.085	-0.01	0.036	0.041
28	WLAN5.3GHz	802.11n-HT40 MCS0	Front	5mm	Ant 3+4(4)	Full power	54	5270	13.31	15.00	1.476	98.54	1.015	0.01	0.070	0.105
29	WLAN5.5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 3+4(3)	Full power	110	5550	14.24	16.00	1.500	98.54	1.015	-0.08	0.062	0.094
30	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	0.08	0.054	0.085
31	LORA	DTS-500K	Front	5mm	Ant 8	Sensor On	1	904	26.48	27.00	1.127	100	0.500	0.18	1.830	1.031
	LORA	DTS-500K	Front	5mm	Ant 8	Sensor On	12	915	25.96	27.00	1.271	100	0.500	0.16	1.350	0.858
	LORA	DTS-500K	Front	5mm	Ant 8	Sensor On	23	926	25.25	27.00	1.496	100	0.500	-0.1	0.922	0.690



15.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
750MHz																				
	LTE Band 12 SA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Full Power	23095	707.5	23.41	24.00	1.146	-	-	0.08	0.692	0.793
	LTE Band 12 SA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Full Power	23095	707.5	22.42	23.00	1.143	-	-	0.01	0.659	0.753
	LTE Band 12 SA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Full Power	23095	707.5	23.41	24.00	1.146	-	-	0.03	0.725	0.830
	LTE Band 12 SA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Full Power	23095	707.5	22.42	23.00	1.143	-	-	-0.08	0.620	0.709
	LTE Band 12 SA	10M	QPSK	50	0	-	Back	5mm	Ant 1	Full Power	23095	707.5	22.46	23.00	1.132	-	-	0.05	0.611	0.692
	LTE Band 12 SA	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	Full Power	23095	707.5	23.41	24.00	1.146	-	-	-0.08	0.229	0.262
	LTE Band 12 SA	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	Full Power	23095	707.5	22.42	23.00	1.143	-	-	0.1	0.190	0.217
	LTE Band 12 SA	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	Full Power	23095	707.5	23.41	24.00	1.146	-	-	-0.18	0.228	0.261
	LTE Band 12 SA	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	Full Power	23095	707.5	22.42	23.00	1.143	-	-	0.1	0.170	0.194
32	LTE Band 12 SA	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	Full Power	23095	707.5	23.41	24.00	1.146	-	-	0.12	0.980	1.123
	LTE Band 12 SA	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	Full Power	23095	707.5	22.42	23.00	1.143	-	-	0.08	0.771	0.881
	LTE Band 12 SA	10M	QPSK	50	0	-	Top Side	5mm	Ant 1	Full Power	23095	707.5	22.46	23.00	1.132	-	-	-0.17	0.766	0.867
	LTE Band 12 SA	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Full Power	23095	707.5	23.41	24.00	1.146	-	-	-0.03	0.113	0.129
	LTE Band 12 SA	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	Full Power	23095	707.5	22.42	23.00	1.143	-	-	0.14	0.103	0.118
	LTE Band 12 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23095	707.5	20.99	21.50	1.125	-	-	0.08	0.420	0.472
	LTE Band 12 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23095	707.5	20.95	21.50	1.135	-	-	0.01	0.382	0.434
	LTE Band 12 NSA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	23095	707.5	20.99	21.50	1.125	-	-	-0.08	0.482	0.542
	LTE Band 12 NSA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Sensor On	23095	707.5	20.95	21.50	1.135	-	-	-0.08	0.359	0.407
	LTE Band 12 NSA	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	23095	707.5	20.99	21.50	1.125	-	-	-0.18	0.133	0.150
	LTE Band 12 NSA	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	Sensor On	23095	707.5	20.95	21.50	1.135	-	-	0.1	0.110	0.125
	LTE Band 12 NSA	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	23095	707.5	20.99	21.50	1.125	-	-	0.12	0.102	0.115
	LTE Band 12 NSA	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	Sensor On	23095	707.5	20.95	21.50	1.135	-	-	0.08	0.099	0.112
	LTE Band 12 NSA	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	23095	707.5	20.99	21.50	1.125	-	-	0.07	0.568	0.639
	LTE Band 12 NSA	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	Sensor On	23095	707.5	20.95	21.50	1.135	-	-	-0.17	0.273	0.310
	LTE Band 12 NSA	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	23095	707.5	20.99	21.50	1.125	-	-	0.14	0.065	0.073
	LTE Band 12 NSA	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	Sensor On	23095	707.5	20.95	21.50	1.135	-	-	0.11	0.060	0.068
	LTE Band 12	10M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	23095	707.5	23.41	24.00	1.146	-	-	0.08	0.138	0.158
	LTE Band 12	10M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	23095	707.5	23.41	24.00	1.146	-	-	0.01	0.135	0.155
	LTE Band 12	10M	QPSK	1	0	-	Left Side	32mm	Ant 1	Full power	23095	707.5	23.41	24.00	1.146	-	-	0.03	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Right Side	20mm	Ant 1	Full power	23095	707.5	23.41	24.00	1.146	-	-	-0.08	0.089	0.102
	LTE Band 12	10M	QPSK	1	0	-	Top Side	30mm	Ant 1	Full power	23095	707.5	23.41	24.00	1.146	-	-	-0.08	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	31mm	Ant 1	Full power	23095	707.5	23.41	24.00	1.146	-	-	0.1	0.001	0.001
	LTE Band 13 SA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.11	0.764	0.904
	LTE Band 13 SA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Full power	23230	782	23.24	24.00	1.191	-	-	-0.05	0.666	0.793
	LTE Band 13 SA	10M	QPSK	50	0	-	Front	5mm	Ant 1	Full power	23230	782	23.34	24.00	1.164	-	-	0.05	0.651	0.758
33	LTE Band 13 SA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.18	0.966	1.143
	LTE Band 13 SA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Full power	23230	782	23.24	24.00	1.191	-	-	0.14	0.766	0.912
	LTE Band 13 SA	10M	QPSK	50	0	-	Back	5mm	Ant 1	Full power	23230	782	23.34	24.00	1.164	-	-	-0.17	0.751	0.874
	LTE Band 13 SA	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.17	0.262	0.310
	LTE Band 13 SA	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	Full power	23230	782	23.24	24.00	1.191	-	-	-0.05	0.214	0.255
	LTE Band 13 SA	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.01	0.350	0.414
	LTE Band 13 SA	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	Full power	23230	782	23.24	24.00	1.191	-	-	0.1	0.311	0.370
	LTE Band 13 SA	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	-0.17	0.511	0.605
	LTE Band 13 SA	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	Full power	23230	782	23.24	24.00	1.191	-	-	0.04	0.444	0.529
	LTE Band 13 SA	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	-0.01	0.160	0.189
	LTE Band 13 SA	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	Full power	23230	782	23.24	24.00	1.191	-	-	-0.08	0.145	0.173
	LTE Band 13 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23230	782	21.36	22.00	1.159	-	-	-0.05	0.429	0.497
	LTE Band 13 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23230	782	21.35	22.00	1.161	-	-	0.18	0.374	0.434
	LTE Band 13 NSA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	23230	782	21.36	22.00	1.159	-	-	0.07	0.542	0.628
	LTE Band 13 NSA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Sensor On	23230	782	21.35	22.00	1.161	-	-	-0.17	0.435	0.505
	LTE Band 13 NSA	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	23230	782	21.36	22.00	1.159	-	-	-0.05	0.147	0.170
	LTE Band 13 NSA	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	Sensor On	23230	782	21.35	22.00	1.161	-	-	0.01	0.120	0.139



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	LTE Band 13 NSA	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	23230	782	21.36	22.00	1.159	-	-	0.1	0.106	0.123
	LTE Band 13 NSA	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	Sensor On	23230	782	21.35	22.00	1.161	-	-	-0.17	0.114	0.132
	LTE Band 13 NSA	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	23230	782	21.36	22.00	1.159	-	-	0.04	0.287	0.333
	LTE Band 13 NSA	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	Sensor On	23230	782	21.35	22.00	1.161	-	-	-0.01	0.249	0.289
	LTE Band 13 NSA	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	23230	782	21.36	22.00	1.159	-	-	-0.08	0.090	0.104
	LTE Band 13 NSA	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	Sensor On	23230	782	21.35	22.00	1.161	-	-	0.05	0.081	0.094
	LTE Band 13	10M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.08	0.144	0.170
	LTE Band 13	10M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.01	0.140	0.166
	LTE Band 13	10M	QPSK	1	0	-	Left Side	32mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.03	0.055	0.065
	LTE Band 13	10M	QPSK	1	0	-	Right Side	20mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	-0.08	0.102	0.121
	LTE Band 13	10M	QPSK	1	0	-	Top Side	30mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	-0.08	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	31mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.1	0.001	0.001
	LTE Band 14 SA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23330	793	24.21	24.50	1.069	-	-	0.05	0.865	0.925
	LTE Band 14 SA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23330	793	23.68	24.00	1.076	-	-	0.06	0.667	0.718
	LTE Band 14 SA	10M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	23330	793	23.58	24.00	1.102	-	-	0.01	0.648	0.714
34	LTE Band 14 SA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	23330	793	24.21	24.50	1.069	-	-	-0.09	1.010	1.080
	LTE Band 14 SA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Sensor On	23330	793	23.68	24.00	1.076	-	-	-0.08	0.875	0.942
	LTE Band 14 SA	10M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	23330	793	23.58	24.00	1.102	-	-	0.13	0.873	0.962
	LTE Band 14 SA	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	23330	793	24.21	24.50	1.069	-	-	0.12	0.287	0.307
	LTE Band 14 SA	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	Sensor On	23330	793	23.68	24.00	1.076	-	-	0.03	0.252	0.271
	LTE Band 14 SA	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	23330	793	24.21	24.50	1.069	-	-	0.18	0.309	0.330
	LTE Band 14 SA	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	Sensor On	23330	793	23.68	24.00	1.076	-	-	0.16	0.247	0.266
	LTE Band 14 SA	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	23330	793	24.21	24.50	1.069	-	-	-0.1	0.980	1.048
	LTE Band 14 SA	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	Sensor On	23330	793	23.68	24.00	1.076	-	-	0.07	0.625	0.673
	LTE Band 14 SA	10M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	23330	793	23.58	24.00	1.102	-	-	0.05	0.608	0.670
	LTE Band 14 SA	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	23330	793	24.21	24.50	1.069	-	-	0.18	0.122	0.130
	LTE Band 14 SA	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	Sensor On	23330	793	23.68	24.00	1.076	-	-	-0.1	0.101	0.109
	LTE Band 14 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23330	793	21.25	21.50	1.059	-	-	0.06	0.455	0.482
	LTE Band 14 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23330	793	21.19	21.50	1.074	-	-	-0.09	0.412	0.442
	LTE Band 14 NSA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	23330	793	21.25	21.50	1.059	-	-	-0.01	0.565	0.598
	LTE Band 14 NSA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Sensor On	23330	793	21.19	21.50	1.074	-	-	0.13	0.461	0.495
	LTE Band 14 NSA	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	23330	793	21.25	21.50	1.059	-	-	0.03	0.162	0.172
	LTE Band 14 NSA	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	Sensor On	23330	793	21.19	21.50	1.074	-	-	0.18	0.133	0.143
	LTE Band 14 NSA	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	23330	793	21.25	21.50	1.059	-	-	0.16	0.127	0.135
	LTE Band 14 NSA	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	Sensor On	23330	793	21.19	21.50	1.074	-	-	-0.1	0.104	0.112
	LTE Band 14 NSA	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	23330	793	21.25	21.50	1.059	-	-	0.07	0.516	0.547
	LTE Band 14 NSA	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	Sensor On	23330	793	21.19	21.50	1.074	-	-	0.18	0.344	0.369
	LTE Band 14 NSA	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	23330	793	21.25	21.50	1.059	-	-	0.01	0.069	0.073
	LTE Band 14 NSA	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	Sensor On	23330	793	21.19	21.50	1.074	-	-	-0.15	0.053	0.057
	LTE Band 14	10M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	23330	793	24.63	25.00	1.089	-	-	-0.18	0.115	0.125
	LTE Band 14	10M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	23330	793	24.63	25.00	1.089	-	-	0.1	0.132	0.144
	LTE Band 14	10M	QPSK	1	0	-	Left Side	32mm	Ant 1	Full power	23330	793	24.63	25.00	1.089	-	-	0.12	0.085	0.093
	LTE Band 14	10M	QPSK	1	0	-	Right Side	20mm	Ant 1	Full power	23330	793	24.63	25.00	1.089	-	-	0.08	0.128	0.139
	LTE Band 14	10M	QPSK	1	0	-	Top Side	30mm	Ant 1	Full power	23330	793	24.63	25.00	1.089	-	-	-0.17	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	31mm	Ant 1	Full power	23330	793	24.63	25.00	1.089	-	-	-0.03	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	Full power	133322	683	23.94	25.00	1.276	-	-	0.08	0.715	0.913
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	Full power	133322	683	22.88	24.00	1.294	-	-	0.01	0.558	0.722
	LTE Band 71	20M	QPSK	100	0	-	Front	5mm	Ant 1	Full power	133322	683	22.91	24.00	1.285	-	-	0.05	0.523	0.672
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 1	Full power	133322	683	23.94	25.00	1.276	-	-	0.03	0.710	0.906
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	Full power	133322	683	22.88	24.00	1.294	-	-	-0.08	0.579	0.749
	LTE Band 71	20M	QPSK	100	0	-	Back	5mm	Ant 1	Full power	133322	683	22.91	24.00	1.285	-	-	0.01	0.559	0.718
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	Full power	133322	683	23.94	25.00	1.276	-	-	-0.08	0.226	0.288
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	Full power	133322	683	22.88	24.00	1.294	-	-	0.1	0.174	0.225
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	Full power	133322	683	23.94	25.00	1.276	-	-	-0.18	0.205	0.262
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	Full power	133322	683	22.88	24.00	1.294	-	-	0.1	0.169	0.219
35	LTE Band 71	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Full power	133322	683	23.94	25.00	1.276	-	-	0.12	0.840	1.072
	LTE Band 71	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Full power	133322	683	22.88	24.00	1.294	-	-	0.08	0.646	0.836



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	LTE Band 71	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	Full power	133322	683	22.91	24.00	1.285	-	-	-0.17	0.637	0.819
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Full power	133322	683	23.94	25.00	1.276	-	-	-0.03	0.009	0.011
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	Full power	133322	683	22.88	24.00	1.294	-	-	0.14	0.005	0.006
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Full power	141500	707.5	23.18	24.00	1.208	-	-	-0.18	0.636	0.768
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 1	Full power	141500	707.5	23.17	24.00	1.211	-	-	-0.09	0.617	0.747
36	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Full power	141500	707.5	23.18	24.00	1.208	-	-	-0.04	0.679	0.820
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 1	Full power	141500	707.5	23.17	24.00	1.211	-	-	-0.17	0.641	0.776
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 1	Full power	141500	707.5	22.21	23.00	1.199	-	-	0.13	0.540	0.648
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Full power	141500	707.5	23.18	24.00	1.208	-	-	-0.16	0.189	0.228
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Full power	141500	707.5	23.17	24.00	1.211	-	-	0.08	0.158	0.191
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Full power	141500	707.5	23.18	24.00	1.208	-	-	-0.09	0.179	0.216
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Full power	141500	707.5	23.17	24.00	1.211	-	-	0.16	0.157	0.190
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Full power	141500	707.5	23.18	24.00	1.208	-	-	-0.17	0.630	0.761
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Full power	141500	707.5	23.17	24.00	1.211	-	-	0.04	0.603	0.730
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Full power	141500	707.5	23.18	24.00	1.208	-	-	-0.04	0.157	0.190
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Full power	141500	707.5	23.17	24.00	1.211	-	-	0.14	0.141	0.171
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	156400	782	22.25	23.00	1.189	-	-	-0.02	0.422	0.502
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	156400	782	22.23	23.00	1.194	-	-	0.13	0.522	0.623
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	156400	782	22.25	23.00	1.189	-	-	-0.16	0.552	0.656
37	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	156400	782	22.23	23.00	1.194	-	-	-0.05	0.592	0.707
	FR1 n13	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	156400	782	22.21	23.00	1.199	-	-	0.03	0.534	0.641
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	156400	782	22.25	23.00	1.189	-	-	0.03	0.170	0.202
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	156400	782	22.23	23.00	1.194	-	-	0.11	0.182	0.217
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	156400	782	22.25	23.00	1.189	-	-	-0.03	0.168	0.200
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	156400	782	22.23	23.00	1.194	-	-	0.18	0.221	0.264
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	156400	782	22.25	23.00	1.189	-	-	-0.14	0.381	0.453
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	156400	782	22.23	23.00	1.194	-	-	0.07	0.340	0.406
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	156400	782	22.25	23.00	1.189	-	-	0.09	0.088	0.105
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	156400	782	22.23	23.00	1.194	-	-	-0.08	0.079	0.094
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	156400	782	24.22	25.00	1.197	-	-	-0.01	0.139	0.166
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	156400	782	24.22	25.00	1.197	-	-	-0.08	0.138	0.165
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	32mm	Ant 1	Full power	156400	782	24.22	25.00	1.197	-	-	0.05	0.077	0.092
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	20mm	Ant 1	Full power	156400	782	24.22	25.00	1.197	-	-	0.06	0.124	0.148
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	30mm	Ant 1	Full power	156400	782	24.22	25.00	1.197	-	-	-0.09	0.001	0.001
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	31mm	Ant 1	Full power	156400	782	24.22	25.00	1.197	-	-	-0.08	0.001	0.001
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	158600	793	22.96	24.00	1.271	-	-	0.11	0.756	0.961
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	158600	793	22.94	24.00	1.276	-	-	-0.05	0.711	0.908
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	158600	793	22.92	24.00	1.282	-	-	0.05	0.688	0.882
38	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	158600	793	22.96	24.00	1.271	-	-	0.18	0.923	1.173
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	158600	793	22.94	24.00	1.276	-	-	0.14	0.846	1.080
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	158600	793	22.92	24.00	1.282	-	-	-0.17	0.828	1.062
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	158600	793	22.96	24.00	1.271	-	-	0.17	0.264	0.335
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	158600	793	22.94	24.00	1.276	-	-	-0.05	0.220	0.281
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	158600	793	22.96	24.00	1.271	-	-	0.01	0.280	0.356
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	158600	793	22.94	24.00	1.276	-	-	0.1	0.232	0.296
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	158600	793	22.96	24.00	1.271	-	-	-0.17	0.581	0.738
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	158600	793	22.94	24.00	1.276	-	-	0.04	0.536	0.684
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	158600	793	22.96	24.00	1.271	-	-	-0.01	0.153	0.194
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	158600	793	22.94	24.00	1.276	-	-	-0.08	0.106	0.135
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	158600	793	23.94	25.00	1.276	-	-	0.13	0.131	0.167
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	158600	793	23.94	25.00	1.276	-	-	0.12	0.125	0.160
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	32mm	Ant 1	Full power	158600	793	23.94	25.00	1.276	-	-	0.03	0.066	0.084
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	20mm	Ant 1	Full power	158600	793	23.94	25.00	1.276	-	-	0.18	0.115	0.147
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	30mm	Ant 1	Full power	158600	793	23.94	25.00	1.276	-	-	0.16	0.001	0.001
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	31mm	Ant 1	Full power	158600	793	23.94	25.00	1.276	-	-	-0.1	0.001	0.001
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	136100	680.5	24.44	25.00	1.138	-	-	0.03	0.539	0.613
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	136100	680.5	24.36	25.00	1.159	-	-	0.01	0.477	0.553



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	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	136100	680.5	24.44	25.00	1.138	-	-	0.13	0.509	0.579
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	136100	680.5	24.36	25.00	1.159	-	-	0.16	0.500	0.579
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	136100	680.5	24.44	25.00	1.138	-	-	-0.11	0.140	0.159
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	136100	680.5	24.36	25.00	1.159	-	-	-0.13	0.136	0.158
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	136100	680.5	24.44	25.00	1.138	-	-	0.08	0.120	0.137
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	136100	680.5	24.36	25.00	1.159	-	-	0.12	0.108	0.125
39	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	136100	680.5	24.44	25.00	1.138	-	-	-0.07	0.601	0.684
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	136100	680.5	24.36	25.00	1.159	-	-	0.13	0.509	0.590
	FR1 n71	20M	QPSK	100	0	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	136100	680.5	23.54	24.00	1.112	-	-	0.13	0.501	0.557
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	136100	680.5	24.44	25.00	1.138	-	-	0.11	0.010	0.011
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	136100	680.5	24.36	25.00	1.159	-	-	-0.04	0.006	0.007
835MHz																				
	LTE Band 26 SA	15M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26865	831.5	23.23	24.00	1.194	-	-	0.05	0.778	0.929
	LTE Band 26 SA	15M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26765	821.5	22.80	24.00	1.318	-	-	0.05	0.681	0.898
	LTE Band 26 SA	15M	QPSK	36	0	-	Front	5mm	Ant 1	Sensor On	26865	831.5	23.19	24.00	1.205	-	-	0.06	0.695	0.837
	LTE Band 26 SA	15M	QPSK	36	0	-	Front	5mm	Ant 1	Sensor On	26765	821.5	22.91	24.00	1.285	-	-	0.06	0.648	0.833
	LTE Band 26 SA	15M	QPSK	75	0	-	Front	5mm	Ant 1	Sensor On	26865	831.5	23.10	24.00	1.230	-	-	0.02	0.645	0.794
40	LTE Band 26 SA	15M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	26865	831.5	23.23	24.00	1.194	-	-	-0.09	0.910	1.087
	LTE Band 26 SA	15M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	26765	821.5	22.80	24.00	1.318	-	-	0.05	0.801	1.056
	LTE Band 26 SA	15M	QPSK	36	0	-	Back	5mm	Ant 1	Sensor On	26865	831.5	23.19	24.00	1.205	-	-	0.12	0.757	0.912
	LTE Band 26 SA	15M	QPSK	36	0	-	Back	5mm	Ant 1	Sensor On	26765	821.5	22.91	24.00	1.285	-	-	0.05	0.678	0.871
	LTE Band 26 SA	15M	QPSK	75	0	-	Back	5mm	Ant 1	Sensor On	26865	831.5	23.10	24.00	1.230	-	-	0.03	0.753	0.926
	LTE Band 26 SA	15M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	26865	831.5	23.23	24.00	1.194	-	-	0.18	0.343	0.410
	LTE Band 26 SA	15M	QPSK	36	0	-	Left Side	5mm	Ant 1	Sensor On	26865	831.5	23.19	24.00	1.205	-	-	0.16	0.275	0.331
	LTE Band 26 SA	15M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	26865	831.5	23.23	24.00	1.194	-	-	-0.1	0.297	0.355
	LTE Band 26 SA	15M	QPSK	36	0	-	Right Side	5mm	Ant 1	Sensor On	26865	831.5	23.19	24.00	1.205	-	-	0.07	0.197	0.237
	LTE Band 26 SA	15M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	26865	831.5	23.23	24.00	1.194	-	-	0.18	0.475	0.567
	LTE Band 26 SA	15M	QPSK	36	0	-	Top Side	5mm	Ant 1	Sensor On	26865	831.5	23.19	24.00	1.205	-	-	-0.1	0.278	0.335
	LTE Band 26 SA	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	26865	831.5	23.23	24.00	1.194	-	-	0.01	0.020	0.024
	LTE Band 26 SA	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 1	Sensor On	26865	831.5	23.19	24.00	1.205	-	-	-0.15	0.006	0.007
	LTE Band 5 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	20525	836.5	21.09	22.00	1.233	-	-	-0.13	0.487	0.601
	LTE Band 5 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	20525	836.5	21.04	22.00	1.247	-	-	0.06	0.372	0.464
	LTE Band 5 NSA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	20525	836.5	21.09	22.00	1.233	-	-	-0.04	0.569	0.702
	LTE Band 5 NSA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Sensor On	20525	836.5	21.04	22.00	1.247	-	-	-0.03	0.474	0.591
	LTE Band 5 NSA	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	20525	836.5	21.09	22.00	1.233	-	-	-0.07	0.215	0.265
	LTE Band 5 NSA	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	Sensor On	20525	836.5	21.04	22.00	1.247	-	-	0.05	0.172	0.215
	LTE Band 5 NSA	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	20525	836.5	21.09	22.00	1.233	-	-	-0.11	0.106	0.131
	LTE Band 5 NSA	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	Sensor On	20525	836.5	21.04	22.00	1.247	-	-	-0.12	0.113	0.141
	LTE Band 5 NSA	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	20525	836.5	21.09	22.00	1.233	-	-	0.03	0.297	0.366
	LTE Band 5 NSA	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	Sensor On	20525	836.5	21.04	22.00	1.247	-	-	-0.16	0.274	0.342
	LTE Band 5 NSA	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	20525	836.5	21.09	22.00	1.233	-	-	-0.02	0.010	0.012
	LTE Band 5 NSA	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	Sensor On	20525	836.5	21.04	22.00	1.247	-	-	0.15	0.006	0.007
	LTE Band 26	15M	QPSK	1	1	-	Front	31mm	Ant 1	Full power	26865	831.5	23.69	25.00	1.352	-	-	0.07	0.172	0.233
	LTE Band 26	15M	QPSK	1	1	-	Back	30mm	Ant 1	Full power	26865	831.5	23.69	25.00	1.352	-	-	0.18	0.180	0.243
	LTE Band 26	15M	QPSK	1	1	-	Left Side	32mm	Ant 1	Full power	26865	831.5	23.69	25.00	1.352	-	-	-0.1	0.063	0.085
	LTE Band 26	15M	QPSK	1	1	-	Right Side	20mm	Ant 1	Full power	26865	831.5	23.69	25.00	1.352	-	-	0.01	0.133	0.180
	LTE Band 26	15M	QPSK	1	1	-	Top Side	30mm	Ant 1	Full power	26865	831.5	23.69	25.00	1.352	-	-	-0.15	0.001	0.001
	LTE Band 26	15M	QPSK	1	1	-	Bottom Side	31mm	Ant 1	Full power	26865	831.5	23.69	25.00	1.352	-	-	0.19	0.001	0.001
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	167800	839	22.65	23.00	1.084	-	-	0.19	0.716	0.776
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	167800	839	22.60	23.00	1.096	-	-	0.07	0.682	0.748
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	167800	839	22.65	23.00	1.084	-	-	-0.18	0.859	0.931
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	164800	824	22.61	23.00	1.094	-	-	0.08	0.823	0.900
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	166300	831.5	22.58	23.00	1.102	-	-	0.01	0.818	0.901
41	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	167800	839	22.60	23.00	1.096	-	-	0.03	0.972	1.066
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	164800	824	22.52	23.00	1.117	-	-	0.06	0.935	1.044
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	166300	831.5	22.50	23.00	1.122	-	-	0.02	0.928	1.041
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	167800	839	22.59	23.00	1.099	-	-	0.11	0.767	0.843
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	167800	839	22.65	23.00	1.084	-	-	-0.08	0.311	0.337



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	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	167800	839	22.60	23.00	1.096	-	-	-0.17	0.360	0.395
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	167800	839	22.65	23.00	1.084	-	-	-0.08	0.307	0.333
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	167800	839	22.60	23.00	1.096	-	-	-0.04	0.249	0.273
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	167800	839	22.65	23.00	1.084	-	-	-0.08	0.626	0.679
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	167800	839	22.60	23.00	1.096	-	-	0.17	0.664	0.728
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	167800	839	22.65	23.00	1.084	-	-	0.18	0.225	0.244
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	167800	839	22.60	23.00	1.096	-	-	-0.04	0.197	0.216
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	167800	839	23.66	24.00	1.081	-	-	0.07	0.166	0.180
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	167800	839	23.66	24.00	1.081	-	-	-0.18	0.173	0.187
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	32mm	Ant 1	Full power	167800	839	23.66	24.00	1.081	-	-	0.03	0.056	0.061
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	20mm	Ant 1	Full power	167800	839	23.66	24.00	1.081	-	-	-0.15	0.124	0.134
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	30mm	Ant 1	Full power	167800	839	23.66	24.00	1.081	-	-	-0.15	0.001	0.001
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	31mm	Ant 1	Full power	167800	839	23.66	24.00	1.081	-	-	0.11	0.001	0.001
1750MHz																				
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	132322	1745	19.22	20.00	1.197	-	-	-0.08	0.626	0.749
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	132322	1745	19.18	20.00	1.208	-	-	-0.13	0.524	0.633
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	132322	1745	19.22	20.00	1.197	-	-	-0.13	0.336	0.402
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	132322	1745	19.18	20.00	1.208	-	-	0.06	0.290	0.350
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	132322	1745	19.22	20.00	1.197	-	-	-0.03	0.137	0.164
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	Sensor On	132322	1745	19.18	20.00	1.208	-	-	-0.03	0.146	0.176
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	132322	1745	19.22	20.00	1.197	-	-	0.08	0.207	0.248
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	Sensor On	132322	1745	19.18	20.00	1.208	-	-	-0.07	0.161	0.194
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	132322	1745	19.22	20.00	1.197	-	-	0.05	0.852	1.020
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	132072	1720	18.96	20.00	1.271	-	-	-0.11	0.835	1.061
42	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	132572	1770	18.96	20.00	1.271	-	-	-0.12	0.916	1.164
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	132322	1745	19.18	20.00	1.208	-	-	0.03	0.510	0.616
	LTE Band 66	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	Sensor On	132322	1745	19.08	20.00	1.236	-	-	-0.16	0.608	0.751
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	132322	1745	19.22	20.00	1.197	-	-	-0.02	0.021	0.025
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	Sensor On	132322	1745	19.18	20.00	1.208	-	-	0.15	0.023	0.028
	LTE Band 66	20M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	132322	1745	24.12	25.00	1.225	-	-	-0.08	0.094	0.115
	LTE Band 66	20M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	132322	1745	24.12	25.00	1.225	-	-	-0.17	0.118	0.145
	LTE Band 66	20M	QPSK	1	0	-	Left Side	32mm	Ant 1	Full power	132322	1745	24.12	25.00	1.225	-	-	-0.08	0.050	0.061
	LTE Band 66	20M	QPSK	1	0	-	Right Side	20mm	Ant 1	Full power	132322	1745	24.12	25.00	1.225	-	-	-0.04	0.137	0.168
	LTE Band 66	20M	QPSK	1	0	-	Top Side	30mm	Ant 1	Full power	132322	1745	24.12	25.00	1.225	-	-	-0.08	0.113	0.138
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	31mm	Ant 1	Full power	132322	1745	24.12	25.00	1.225	-	-	0.17	0.001	0.001
	LTE Band 66 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	132322	1745	18.79	19.00	1.050	-	-	-0.09	0.318	0.334
	LTE Band 66 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 2	Sensor On	132322	1745	18.76	19.00	1.057	-	-	0.11	0.294	0.311
	LTE Band 66 NSA	20M	QPSK	1	0	-	Back	5mm	Ant 2	Sensor On	132322	1745	18.79	19.00	1.050	-	-	-0.05	0.443	0.465
	LTE Band 66 NSA	20M	QPSK	50	0	-	Back	5mm	Ant 2	Sensor On	132322	1745	18.76	19.00	1.057	-	-	-0.08	0.382	0.404
	LTE Band 66 NSA	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	Sensor On	132322	1745	18.79	19.00	1.050	-	-	0.16	0.186	0.195
	LTE Band 66 NSA	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	Sensor On	132322	1745	18.76	19.00	1.057	-	-	0.05	0.154	0.163
	LTE Band 66 NSA	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	Sensor On	132322	1745	18.79	19.00	1.050	-	-	0.05	0.187	0.196
	LTE Band 66 NSA	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	Sensor On	132322	1745	18.76	19.00	1.057	-	-	-0.03	0.175	0.185
	LTE Band 66 NSA	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	Sensor On	132322	1745	18.79	19.00	1.050	-	-	-0.15	0.079	0.083
	LTE Band 66 NSA	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	Sensor On	132322	1745	18.76	19.00	1.057	-	-	0.02	0.071	0.075
	LTE Band 66 NSA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	Sensor On	132322	1745	18.79	19.00	1.050	-	-	0.07	0.480	0.504
	LTE Band 66 NSA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	Sensor On	132072	1720	18.48	19.00	1.127	-	-	0.16	0.438	0.494
	LTE Band 66 NSA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	Sensor On	132572	1770	18.70	19.00	1.072	-	-	0.13	0.507	0.543
	LTE Band 66 NSA	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	Sensor On	132322	1745	18.76	19.00	1.057	-	-	-0.18	0.369	0.390
	LTE Band 66 NSA	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 2	Sensor On	132322	1745	18.74	19.00	1.062	-	-	0.02	0.370	0.393
	LTE Band 66	20M	QPSK	1	0	-	Front	31mm	Ant 2	Full power	132322	1745	23.70	24.00	1.072	-	-	0.18	0.206	0.221
	LTE Band 66	20M	QPSK	1	0	-	Back	30mm	Ant 2	Full power	132322	1745	23.70	24.00	1.072	-	-	-0.04	0.066	0.071
	LTE Band 66	20M	QPSK	1	0	-	Left Side	32mm	Ant 2	Full power	132322	1745	23.70	24.00	1.072	-	-	-0.08	0.072	0.077
	LTE Band 66	20M	QPSK	1	0	-	Right Side	20mm	Ant 2	Full power	132322	1745	23.70	24.00	1.072	-	-	-0.13	0.176	0.189
	LTE Band 66	20M	QPSK	1	0	-	Top Side	30mm	Ant 2	Full power	132322	1745	23.70	24.00	1.072	-	-	-0.13	0.054	0.058
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	31mm	Ant 2	Full power	132322	1745	23.70	24.00	1.072	-	-	0.06	0.542	0.581
	FR1 n66 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	19.38	20.50	1.294	-	-	0.16	0.605	0.783
	FR1 n66 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	19.36	20.50	1.300	-	-	-0.03	0.555	0.722



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	FR1 n66 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	349000	1745	19.38	20.50	1.294	-	-	0.07	0.265	0.343
	FR1 n66 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	349000	1745	19.36	20.50	1.300	-	-	0.18	0.289	0.376
	FR1 n66 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	349000	1745	19.38	20.50	1.294	-	-	0.01	0.121	0.157
	FR1 n66 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	349000	1745	19.36	20.50	1.300	-	-	-0.01	0.152	0.198
	FR1 n66 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	349000	1745	19.38	20.50	1.294	-	-	-0.06	0.168	0.217
	FR1 n66 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	349000	1745	19.36	20.50	1.300	-	-	-0.04	0.242	0.315
	FR1 n66 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	349000	1745	19.38	20.50	1.294	-	-	-0.09	0.784	1.015
43	FR1 n66 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	349000	1745	19.36	20.50	1.300	-	-	-0.17	0.819	1.065
	FR1 n66 SA	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	349000	1745	19.34	20.50	1.306	-	-	-0.1	0.745	0.973
	FR1 n66 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	349000	1745	19.38	20.50	1.294	-	-	0.18	0.032	0.041
	FR1 n66 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	349000	1745	19.36	20.50	1.300	-	-	-0.17	0.031	0.040
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	17.51	18.50	1.256	-	-	0.08	0.395	0.496
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	17.49	18.50	1.262	-	-	0.01	0.493	0.622
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	349000	1745	17.51	18.50	1.256	-	-	-0.08	0.173	0.217
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	349000	1745	17.49	18.50	1.262	-	-	-0.08	0.189	0.238
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	349000	1745	17.51	18.50	1.256	-	-	-0.18	0.079	0.099
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	349000	1745	17.49	18.50	1.262	-	-	0.1	0.099	0.125
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	349000	1745	17.51	18.50	1.256	-	-	0.12	0.110	0.138
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	349000	1745	17.49	18.50	1.262	-	-	0.08	0.158	0.199
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	349000	1745	17.51	18.50	1.256	-	-	-0.17	0.486	0.610
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	349000	1745	17.49	18.50	1.262	-	-	0.01	0.535	0.675
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	349000	1745	17.51	18.50	1.256	-	-	0.14	0.021	0.026
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	349000	1745	17.49	18.50	1.262	-	-	0.11	0.020	0.025
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	349000	1745	23.93	25.00	1.279	-	-	-0.03	0.088	0.113
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	349000	1745	23.93	25.00	1.279	-	-	-0.03	0.109	0.139
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	32mm	Ant 1	Full power	349000	1745	23.93	25.00	1.279	-	-	0.08	0.053	0.068
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	20mm	Ant 1	Full power	349000	1745	23.93	25.00	1.279	-	-	-0.07	0.125	0.160
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	30mm	Ant 1	Full power	349000	1745	23.93	25.00	1.279	-	-	0.05	0.098	0.125
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	31mm	Ant 1	Full power	349000	1745	23.93	25.00	1.279	-	-	-0.11	0.001	0.001
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	349000	1745	18.97	20.00	1.268	-	-	-0.05	0.347	0.440
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	349000	1745	18.95	20.00	1.274	-	-	0.18	0.355	0.452
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	349000	1745	18.97	20.00	1.268	-	-	-0.17	0.438	0.555
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	349000	1745	18.95	20.00	1.274	-	-	-0.04	0.443	0.564
	FR1 n66 NSA	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	349000	1745	18.92	20.00	1.282	-	-	0.17	0.418	0.536
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 2	Sensor On	349000	1745	18.97	20.00	1.268	-	-	-0.05	0.234	0.297
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 2	Sensor On	349000	1745	18.95	20.00	1.274	-	-	0.01	0.307	0.391
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 2	Sensor On	349000	1745	18.97	20.00	1.268	-	-	-0.17	0.238	0.302
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 2	Sensor On	349000	1745	18.95	20.00	1.274	-	-	0.04	0.253	0.322
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 2	Sensor On	349000	1745	18.97	20.00	1.268	-	-	-0.08	0.092	0.117
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 2	Sensor On	349000	1745	18.95	20.00	1.274	-	-	0.05	0.101	0.129
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	Sensor On	349000	1745	18.97	20.00	1.268	-	-	0.06	0.380	0.482
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	Sensor On	349000	1745	18.95	20.00	1.274	-	-	-0.09	0.362	0.461
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 2	Full power	349000	1745	23.97	25.00	1.268	-	-	-0.12	0.216	0.274
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 2	Full power	349000	1745	23.97	25.00	1.268	-	-	0.03	0.087	0.110
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	32mm	Ant 2	Full power	349000	1745	23.97	25.00	1.268	-	-	-0.16	0.051	0.065
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	20mm	Ant 2	Full power	349000	1745	23.97	25.00	1.268	-	-	-0.02	0.188	0.238
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	30mm	Ant 2	Full power	349000	1745	23.97	25.00	1.268	-	-	0.15	0.063	0.080
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	31mm	Ant 2	Full power	349000	1745	23.97	25.00	1.268	-	-	-0.09	0.529	0.671
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	340500	1702.5	18.40	19.50	1.288	-	-	0.08	0.613	0.790
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	340500	1702.5	18.36	19.50	1.300	-	-	0.01	0.594	0.772
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	340500	1702.5	18.40	19.50	1.288	-	-	0.03	0.617	0.795
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	340500	1702.5	18.36	19.50	1.300	-	-	-0.08	0.597	0.776
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 2	Sensor On	340500	1702.5	18.40	19.50	1.288	-	-	-0.08	0.374	0.482
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 2	Sensor On	340500	1702.5	18.36	19.50	1.300	-	-	0.1	0.327	0.425
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 2	Sensor On	340500	1702.5	18.40	19.50	1.288	-	-	-0.18	0.300	0.386
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 2	Sensor On	340500	1702.5	18.36	19.50	1.300	-	-	0.1	0.232	0.302
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 2	Sensor On	340500	1702.5	18.40	19.50	1.288	-	-	0.12	0.102	0.131
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	5mm	Ant 2	Sensor On	340500	1702.5	18.36	19.50	1.300	-	-	0.08	0.107	0.139



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44	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	Sensor On	340500	1702.5	18.40	19.50	1.288	-	-	-0.17	0.907	1.168
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	Sensor On	340500	1702.5	18.36	19.50	1.300	-	-	-0.03	0.889	1.156
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	Sensor On	340500	1702.5	18.33	19.50	1.309	-	-	0.14	0.859	1.125
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 2	Full power	340500	1702.5	23.86	25.00	1.300	-	-	0.11	0.256	0.333
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 2	Full power	340500	1702.5	23.86	25.00	1.300	-	-	-0.05	0.106	0.138
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	32mm	Ant 2	Full power	340500	1702.5	23.86	25.00	1.300	-	-	-0.08	0.061	0.079
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	20mm	Ant 2	Full power	340500	1702.5	23.86	25.00	1.300	-	-	0.16	0.209	0.272
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	30mm	Ant 2	Full power	340500	1702.5	23.86	25.00	1.300	-	-	0.05	0.051	0.066
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	31mm	Ant 2	Full power	340500	1702.5	23.86	25.00	1.300	-	-	0.05	0.516	0.671
1900MHz																				
	LTE Band 25 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26340	1880	17.53	18.00	1.114	-	-	0.11	0.863	0.962
	LTE Band 25 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26140	1860	17.22	18.00	1.197	-	-	-0.05	0.852	1.020
45	LTE Band 25 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26590	1905	17.23	18.00	1.194	-	-	0.18	0.870	1.039
	LTE Band 25 SA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	26340	1880	17.41	18.00	1.146	-	-	0.14	0.603	0.691
	LTE Band 25 SA	20M	QPSK	100	0	-	Front	5mm	Ant 1	Sensor On	26340	1880	17.40	18.00	1.148	-	-	-0.17	0.605	0.695
	LTE Band 25 SA	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	26340	1880	17.53	18.00	1.114	-	-	0.17	0.455	0.507
	LTE Band 25 SA	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	26340	1880	17.41	18.00	1.146	-	-	-0.05	0.372	0.426
	LTE Band 25 SA	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	26340	1880	17.53	18.00	1.114	-	-	0.01	0.175	0.195
	LTE Band 25 SA	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	Sensor On	26340	1880	17.41	18.00	1.146	-	-	0.1	0.133	0.152
	LTE Band 25 SA	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	26340	1880	17.53	18.00	1.114	-	-	-0.17	0.361	0.402
	LTE Band 25 SA	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	Sensor On	26340	1880	17.41	18.00	1.146	-	-	0.04	0.293	0.336
	LTE Band 25 SA	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	26340	1880	17.53	18.00	1.114	-	-	-0.01	0.494	0.550
	LTE Band 25 SA	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	26340	1880	17.41	18.00	1.146	-	-	-0.08	0.438	0.502
	LTE Band 25 SA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	26340	1880	17.53	18.00	1.114	-	-	0.05	0.047	0.052
	LTE Band 25 SA	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	Sensor On	26340	1880	17.41	18.00	1.146	-	-	0.06	0.031	0.036
	LTE Band 2 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	18900	1880	15.39	16.00	1.151	-	-	-0.13	0.485	0.558
	LTE Band 2 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	18900	1880	15.35	16.00	1.161	-	-	0.06	0.398	0.462
	LTE Band 2 NSA	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	18900	1880	15.39	16.00	1.151	-	-	-0.07	0.301	0.346
	LTE Band 2 NSA	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	18900	1880	15.35	16.00	1.161	-	-	-0.12	0.246	0.286
	LTE Band 2 NSA	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	18900	1880	15.39	16.00	1.151	-	-	0.15	0.116	0.133
	LTE Band 2 NSA	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	Sensor On	18900	1880	15.35	16.00	1.161	-	-	-0.05	0.088	0.102
	LTE Band 2 NSA	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	18900	1880	15.39	16.00	1.151	-	-	0.05	0.119	0.137
	LTE Band 2 NSA	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	Sensor On	18900	1880	15.35	16.00	1.161	-	-	0.02	0.104	0.121
	LTE Band 2 NSA	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	18900	1880	15.39	16.00	1.151	-	-	-0.18	0.326	0.375
	LTE Band 2 NSA	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	18900	1880	15.35	16.00	1.161	-	-	-0.03	0.290	0.337
	LTE Band 2 NSA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	18900	1880	15.39	16.00	1.151	-	-	-0.01	0.031	0.036
	LTE Band 2 NSA	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	Sensor On	18900	1880	15.35	16.00	1.161	-	-	-0.06	0.021	0.024
	LTE Band 25	20M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	26340	1880	23.84	25.00	1.306	-	-	-0.03	0.218	0.285
	LTE Band 25	20M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	26340	1880	23.84	25.00	1.306	-	-	-0.15	0.200	0.261
	LTE Band 25	20M	QPSK	1	0	-	Left Side	32mm	Ant 1	Full power	26340	1880	23.84	25.00	1.306	-	-	0.02	0.049	0.064
	LTE Band 25	20M	QPSK	1	0	-	Right Side	20mm	Ant 1	Full power	26340	1880	23.84	25.00	1.306	-	-	0.07	0.304	0.397
	LTE Band 25	20M	QPSK	1	0	-	Top Side	30mm	Ant 1	Full power	26340	1880	23.84	25.00	1.306	-	-	0.16	0.143	0.187
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	31mm	Ant 1	Full power	26340	1880	23.84	25.00	1.306	-	-	0.13	0.047	0.061
	LTE Band 25 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	26340	1880	17.81	18.00	1.045	-	-	-0.09	0.412	0.430
	LTE Band 25 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	26140	1860	17.47	18.00	1.130	-	-	-0.08	0.429	0.485
	LTE Band 25 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	26590	1905	17.76	18.00	1.057	-	-	0.13	0.399	0.422
	LTE Band 25 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 2	Sensor On	26340	1880	17.78	18.00	1.052	-	-	0.12	0.381	0.401
	LTE Band 25 NSA	20M	QPSK	100	0	-	Front	5mm	Ant 2	Sensor On	26340	1880	17.75	18.00	1.059	-	-	0.03	0.404	0.428
	LTE Band 25 NSA	20M	QPSK	1	0	-	Back	5mm	Ant 2	Sensor On	26340	1880	17.81	18.00	1.045	-	-	0.18	0.288	0.301
	LTE Band 25 NSA	20M	QPSK	50	0	-	Back	5mm	Ant 2	Sensor On	26340	1880	17.78	18.00	1.052	-	-	0.16	0.253	0.266
	LTE Band 25 NSA	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	Sensor On	26340	1880	17.81	18.00	1.045	-	-	-0.1	0.027	0.028
	LTE Band 25 NSA	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	Sensor On	26340	1880	17.78	18.00	1.052	-	-	0.07	0.029	0.031
	LTE Band 25 NSA	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	Sensor On	26340	1880	17.81	18.00	1.045	-	-	0.18	0.134	0.140
	LTE Band 25 NSA	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	Sensor On	26340	1880	17.78	18.00	1.052	-	-	-0.1	0.125	0.131
	LTE Band 25 NSA	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	Sensor On	26340	1880	17.81	18.00	1.045	-	-	0.01	0.031	0.032
	LTE Band 25 NSA	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	Sensor On	26340	1880	17.78	18.00	1.052	-	-	-0.15	0.027	0.028
	LTE Band 25 NSA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	Sensor On	26340	1880	17.81	18.00	1.045	-	-	0.19	0.356	0.372
	LTE Band 25 NSA	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	Sensor On	26340	1880	17.78	18.00	1.052	-	-	0.07	0.349	0.367



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	LTE Band 25	20M	QPSK	1	0	-	Front	31mm	Ant 2	Full power	26340	1880	23.62	24.00	1.091	-	-	-0.18	0.321	0.350
	LTE Band 25	20M	QPSK	1	0	-	Back	30mm	Ant 2	Full power	26340	1880	23.62	24.00	1.091	-	-	0.02	0.114	0.124
	LTE Band 25	20M	QPSK	1	0	-	Left Side	32mm	Ant 2	Full power	26340	1880	23.62	24.00	1.091	-	-	0.16	0.072	0.079
	LTE Band 25	20M	QPSK	1	0	-	Right Side	20mm	Ant 2	Full power	26340	1880	23.62	24.00	1.091	-	-	-0.03	0.215	0.235
	LTE Band 25	20M	QPSK	1	0	-	Top Side	30mm	Ant 2	Full power	26340	1880	23.62	24.00	1.091	-	-	0.07	0.044	0.048
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	31mm	Ant 2	Full power	26340	1880	23.62	24.00	1.091	-	-	0.01	0.521	0.569
	FR1 n25 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	18.08	19.00	1.236	-	-	-0.18	0.752	0.929
46	FR1 n25 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	18.07	19.00	1.239	-	-	0.03	0.871	1.079
	FR1 n25 SA	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	18.05	19.00	1.245	-	-	-0.15	0.797	0.992
	FR1 n25 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	376500	1882.5	18.08	19.00	1.236	-	-	-0.15	0.627	0.775
	FR1 n25 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	376500	1882.5	18.07	19.00	1.239	-	-	0.11	0.601	0.745
	FR1 n25 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	376500	1882.5	18.08	19.00	1.236	-	-	-0.08	0.145	0.179
	FR1 n25 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	376500	1882.5	18.07	19.00	1.239	-	-	-0.17	0.119	0.147
	FR1 n25 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	376500	1882.5	18.08	19.00	1.236	-	-	-0.08	0.345	0.426
	FR1 n25 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	376500	1882.5	18.07	19.00	1.239	-	-	-0.04	0.418	0.518
	FR1 n25 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	376500	1882.5	18.08	19.00	1.236	-	-	-0.08	0.510	0.630
	FR1 n25 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	376500	1882.5	18.07	19.00	1.239	-	-	0.17	0.592	0.733
	FR1 n25 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	376500	1882.5	18.08	19.00	1.236	-	-	0.18	0.046	0.057
	FR1 n25 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	376500	1882.5	18.07	19.00	1.239	-	-	-0.04	0.039	0.048
	FR1 n25 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	16.46	17.00	1.132	-	-	-0.13	0.464	0.525
	FR1 n25 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	16.41	17.00	1.146	-	-	0.07	0.537	0.615
	FR1 n25 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	376500	1882.5	16.46	17.00	1.132	-	-	0.16	0.399	0.452
	FR1 n25 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	376500	1882.5	16.41	17.00	1.146	-	-	0.01	0.399	0.457
	FR1 n25 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	376500	1882.5	16.46	17.00	1.132	-	-	0.1	0.090	0.102
	FR1 n25 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	376500	1882.5	16.41	17.00	1.146	-	-	-0.04	0.074	0.085
	FR1 n25 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	376500	1882.5	16.46	17.00	1.132	-	-	-0.01	0.213	0.241
	FR1 n25 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	376500	1882.5	16.41	17.00	1.146	-	-	0.07	0.258	0.296
	FR1 n25 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	376500	1882.5	16.46	17.00	1.132	-	-	-0.06	0.315	0.357
	FR1 n25 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	376500	1882.5	16.41	17.00	1.146	-	-	-0.15	0.365	0.418
	FR1 n25 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	376500	1882.5	16.46	17.00	1.132	-	-	-0.13	0.029	0.033
	FR1 n25 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	376500	1882.5	16.41	17.00	1.146	-	-	0.16	0.024	0.027
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	376500	1882.5	24.11	25.00	1.227	-	-	-0.01	0.189	0.232
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	376500	1882.5	24.11	25.00	1.227	-	-	-0.06	0.176	0.216
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	32mm	Ant 1	Full power	376500	1882.5	24.11	25.00	1.227	-	-	-0.04	0.051	0.063
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	20mm	Ant 1	Full power	376500	1882.5	24.11	25.00	1.227	-	-	-0.09	0.301	0.369
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	30mm	Ant 1	Full power	376500	1882.5	24.11	25.00	1.227	-	-	-0.17	0.121	0.149
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	31mm	Ant 1	Full power	376500	1882.5	24.11	25.00	1.227	-	-	-0.1	0.033	0.041
	FR1 n2 NSA	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	376000	1880	18.24	19.00	1.191	-	-	-0.08	0.414	0.493
	FR1 n2 NSA	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	376000	1880	18.21	19.00	1.199	-	-	-0.13	0.408	0.489
	FR1 n2 NSA	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	376000	1880	18.24	19.00	1.191	-	-	-0.13	0.258	0.307
	FR1 n2 NSA	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	376000	1880	18.21	19.00	1.199	-	-	0.06	0.303	0.363
	FR1 n2 NSA	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 2	Sensor On	376000	1880	18.24	19.00	1.191	-	-	-0.03	0.034	0.041
	FR1 n2 NSA	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 2	Sensor On	376000	1880	18.21	19.00	1.199	-	-	-0.03	0.030	0.036
	FR1 n2 NSA	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 2	Sensor On	376000	1880	18.24	19.00	1.191	-	-	0.08	0.163	0.194
	FR1 n2 NSA	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 2	Sensor On	376000	1880	18.21	19.00	1.199	-	-	-0.07	0.172	0.206
	FR1 n2 NSA	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 2	Sensor On	376000	1880	18.24	19.00	1.191	-	-	0.05	0.028	0.033
	FR1 n2 NSA	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant 2	Sensor On	376000	1880	18.21	19.00	1.199	-	-	-0.11	0.024	0.029
	FR1 n2 NSA	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	Sensor On	376000	1880	18.24	19.00	1.191	-	-	-0.12	0.492	0.586
47	FR1 n2 NSA	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	Sensor On	376000	1880	18.21	19.00	1.199	-	-	0.03	0.569	0.683
	FR1 n2 NSA	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	Sensor On	372000	1860	18.12	19.00	1.225	-	-	-0.16	0.552	0.676
	FR1 n2 NSA	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	Sensor On	380000	1900	18.12	19.00	1.225	-	-	-0.02	0.531	0.650
	FR1 n2 NSA	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	Sensor On	376000	1880	18.20	19.00	1.202	-	-	0.15	0.397	0.477
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 2	Full power	376000	1880	24.26	25.00	1.186	-	-	0.18	0.331	0.392
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 2	Full power	376000	1880	24.26	25.00	1.186	-	-	-0.17	0.124	0.147
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	32mm	Ant 2	Full power	376000	1880	24.26	25.00	1.186	-	-	-0.04	0.088	0.104
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	20mm	Ant 2	Full power	376000	1880	24.26	25.00	1.186	-	-	-0.05	0.235	0.279
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	30mm	Ant 2	Full power	376000	1880	24.26	25.00	1.186	-	-	-0.01	0.053	0.063



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	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	31mm	Ant 2	Full power	376000	1880	24.26	25.00	1.186	-	-	-0.13	0.531	0.630
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 9	Sensor On	27710	2310	16.73	17.50	1.194	-	-	-0.04	0.375	0.448
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 9	Sensor On	27710	2310	16.69	17.50	1.205	-	-	0.13	0.257	0.310
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 9	Sensor On	27710	2310	16.73	17.50	1.194	-	-	0.07	0.366	0.437
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 9	Sensor On	27710	2310	16.69	17.50	1.205	-	-	0.08	0.298	0.359
	LTE Band 30	10M	QPSK	1	0	-	Left Side	5mm	Ant 9	Sensor On	27710	2310	16.73	17.50	1.194	-	-	-0.06	0.012	0.014
	LTE Band 30	10M	QPSK	25	0	-	Left Side	5mm	Ant 9	Sensor On	27710	2310	16.69	17.50	1.205	-	-	0.07	0.008	0.010
48	LTE Band 30	10M	QPSK	1	0	-	Right Side	5mm	Ant 9	Sensor On	27710	2310	16.73	17.50	1.194	-	-	0.01	0.475	0.567
	LTE Band 30	10M	QPSK	25	0	-	Right Side	5mm	Ant 9	Sensor On	27710	2310	16.69	17.50	1.205	-	-	-0.03	0.433	0.522
	LTE Band 30	10M	QPSK	50	0	-	Right Side	5mm	Ant 9	Sensor On	27710	2310	16.67	17.50	1.211	-	-	0.07	0.406	0.492
	LTE Band 30	10M	QPSK	1	0	-	Top Side	5mm	Ant 9	Sensor On	27710	2310	16.73	17.50	1.194	-	-	-0.12	0.005	0.006
	LTE Band 30	10M	QPSK	25	0	-	Top Side	5mm	Ant 9	Sensor On	27710	2310	16.69	17.50	1.205	-	-	-0.03	0.003	0.004
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	Sensor On	27710	2310	16.73	17.50	1.194	-	-	0.02	0.216	0.258
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 9	Sensor On	27710	2310	16.69	17.50	1.205	-	-	0.12	0.177	0.213
	LTE Band 30	10M	QPSK	1	0	-	Front	31mm	Ant 9	Full power	27710	2310	24.11	25.00	1.227	-	-	-0.09	0.156	0.191
	LTE Band 30	10M	QPSK	1	0	-	Back	30mm	Ant 9	Full power	27710	2310	24.11	25.00	1.227	-	-	0.05	0.096	0.118
	LTE Band 30	10M	QPSK	1	0	-	Left Side	32mm	Ant 9	Full power	27710	2310	24.11	25.00	1.227	-	-	0.02	0.001	0.001
	LTE Band 30	10M	QPSK	1	0	-	Right Side	20mm	Ant 9	Full power	27710	2310	24.11	25.00	1.227	-	-	-0.13	0.192	0.236
	LTE Band 30	10M	QPSK	1	0	-	Top Side	30mm	Ant 9	Full power	27710	2310	24.11	25.00	1.227	-	-	0.17	0.001	0.001
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	31mm	Ant 9	Full power	27710	2310	24.11	25.00	1.227	-	-	0.06	0.214	0.263
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 9	Sensor On	462000	2310	16.08	17.00	1.236	-	-	-0.08	0.332	0.410
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 9	Sensor On	462000	2310	16.05	17.00	1.245	-	-	-0.08	0.213	0.265
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 9	Sensor On	462000	2310	16.08	17.00	1.236	-	-	0.01	0.327	0.404
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 9	Sensor On	462000	2310	16.05	17.00	1.245	-	-	-0.11	0.208	0.259
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 9	Sensor On	462000	2310	16.08	17.00	1.236	-	-	-0.05	0.024	0.030
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant 9	Sensor On	462000	2310	16.05	17.00	1.245	-	-	0.14	0.017	0.021
49	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 9	Sensor On	462000	2310	16.08	17.00	1.236	-	-	0.05	0.550	0.680
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant 9	Sensor On	462000	2310	16.05	17.00	1.245	-	-	-0.01	0.337	0.419
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Right Side	5mm	Ant 9	Sensor On	462000	2310	16.03	17.00	1.250	-	-	-0.12	0.288	0.360
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 9	Sensor On	462000	2310	16.08	17.00	1.236	-	-	0.07	0.017	0.021
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	5mm	Ant 9	Sensor On	462000	2310	16.05	17.00	1.245	-	-	0.09	0.015	0.019
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 9	Sensor On	462000	2310	16.08	17.00	1.236	-	-	0.04	0.228	0.282
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	5mm	Ant 9	Sensor On	462000	2310	16.05	17.00	1.245	-	-	0.11	0.150	0.187
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 9	Full power	462000	2310	24.05	25.00	1.245	-	-	0.04	0.144	0.179
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 9	Full power	462000	2310	24.05	25.00	1.245	-	-	-0.04	0.088	0.110
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	32mm	Ant 9	Full power	462000	2310	24.05	25.00	1.245	-	-	-0.15	0.001	0.001
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	20mm	Ant 9	Full power	462000	2310	24.05	25.00	1.245	-	-	0.11	0.179	0.223
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	30mm	Ant 9	Full power	462000	2310	24.05	25.00	1.245	-	-	-0.02	0.001	0.001
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	31mm	Ant 9	Full power	462000	2310	24.05	25.00	1.245	-	-	0.1	0.184	0.229
2600MHz																				
	LTE Band 7 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	13.65	14.50	1.216	-	-	-0.18	0.436	0.530
	LTE Band 7 SA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	13.61	14.50	1.227	-	-	0.1	0.372	0.457
	LTE Band 7 SA	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	21100	2535	13.65	14.50	1.216	-	-	0.12	0.201	0.244
	LTE Band 7 SA	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	21100	2535	13.61	14.50	1.227	-	-	0.08	0.179	0.220
	LTE Band 7 SA	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	21100	2535	13.65	14.50	1.216	-	-	-0.17	0.046	0.056
	LTE Band 7 SA	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	Sensor On	21100	2535	13.61	14.50	1.227	-	-	-0.03	0.020	0.025
	LTE Band 7 SA	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	21100	2535	13.65	14.50	1.216	-	-	0.14	0.010	0.012
	LTE Band 7 SA	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	Sensor On	21100	2535	13.61	14.50	1.227	-	-	0.11	0.006	0.007
	LTE Band 7 SA	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	21100	2535	13.65	14.50	1.216	-	-	-0.05	0.793	0.964
	LTE Band 7 SA	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	20850	2510	13.45	14.50	1.274	-	-	0.18	0.785	1.000
50	LTE Band 7 SA	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	21350	2560	13.49	14.50	1.262	-	-	0.14	0.820	1.035
	LTE Band 7 SA	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	21100	2535	13.61	14.50	1.227	-	-	-0.17	0.741	0.910
	LTE Band 7 SA	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	20850	2510	13.45	14.50	1.274	-	-	0.05	0.723	0.921
	LTE Band 7 SA	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	21350	2560	13.49	14.50	1.262	-	-	0.01	0.718	0.906
	LTE Band 7 SA	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	Sensor On	21100	2535	13.58	14.50	1.236	-	-	0.17	0.716	0.885
	LTE Band 7 SA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	21100	2535	13.65	14.50	1.216	-	-	-0.05	0.007	0.009
	LTE Band 7 SA	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	Sensor On	21100	2535	13.61	14.50	1.227	-	-	0.01	0.004	0.005



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	LTE Band 7 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	11.71	12.50	1.199	-	-	-0.05	0.284	0.341
	LTE Band 7 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	11.68	12.50	1.208	-	-	-0.15	0.243	0.293
	LTE Band 7 NSA	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	21100	2535	11.71	12.50	1.199	-	-	0.01	0.131	0.157
	LTE Band 7 NSA	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	21100	2535	11.68	12.50	1.208	-	-	0.02	0.117	0.141
	LTE Band 7 NSA	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	21100	2535	11.71	12.50	1.199	-	-	-0.11	0.030	0.036
	LTE Band 7 NSA	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	Sensor On	21100	2535	11.68	12.50	1.208	-	-	-0.01	0.023	0.028
	LTE Band 7 NSA	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	21100	2535	11.71	12.50	1.199	-	-	0.09	0.016	0.019
	LTE Band 7 NSA	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	Sensor On	21100	2535	11.68	12.50	1.208	-	-	0.1	0.011	0.013
	LTE Band 7 NSA	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	21100	2535	11.71	12.50	1.199	-	-	-0.04	0.524	0.629
	LTE Band 7 NSA	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	21100	2535	11.68	12.50	1.208	-	-	0.09	0.418	0.505
	LTE Band 7 NSA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	21100	2535	11.71	12.50	1.199	-	-	-0.18	0.006	0.007
	LTE Band 7 NSA	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	Sensor On	21100	2535	11.68	12.50	1.208	-	-	-0.03	0.003	0.004
	LTE Band 7	20M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	21100	2535	24.06	25.00	1.242	-	-	0.13	0.253	0.314
	LTE Band 7	20M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	21100	2535	24.06	25.00	1.242	-	-	-0.18	0.190	0.236
	LTE Band 7	20M	QPSK	1	0	-	Left Side	32mm	Ant 1	Full power	21100	2535	24.06	25.00	1.242	-	-	-0.11	0.149	0.185
	LTE Band 7	20M	QPSK	1	0	-	Right Side	20mm	Ant 1	Full power	21100	2535	24.06	25.00	1.242	-	-	-0.16	0.149	0.185
	LTE Band 7	20M	QPSK	1	0	-	Top Side	30mm	Ant 1	Full power	21100	2535	24.06	25.00	1.242	-	-	-0.15	0.772	0.959
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	31mm	Ant 1	Full power	21100	2535	24.06	25.00	1.242	-	-	-0.06	0.001	0.001
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	40620	2593	16.49	17.50	1.262	42.9	1.009	-0.09	0.702	0.894
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	39750	2506	16.10	17.50	1.380	42.9	1.009	-0.05	0.676	0.942
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	40185	2549.5	16.18	17.50	1.355	42.9	1.009	-0.08	0.682	0.933
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	41055	2636.5	16.29	17.50	1.321	42.9	1.009	0.16	0.636	0.848
51	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	41490	2680	16.17	17.50	1.358	42.9	1.009	0.05	0.774	1.061
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	40620	2593	16.45	17.50	1.274	42.9	1.009	0.05	0.577	0.741
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	39790	2510	16.14	17.50	1.368	42.9	1.009	0.1	0.545	0.752
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	39750	2506	16.06	17.50	1.393	42.9	1.009	-0.17	0.512	0.720
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	40185	2549.5	16.24	17.50	1.337	42.9	1.009	0.04	0.533	0.719
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	41055	2636.5	16.28	17.50	1.324	42.9	1.009	-0.01	0.518	0.692
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	41490	2680	16.15	17.50	1.365	42.9	1.009	-0.08	0.520	0.716
	LTE Band 41 HPUE	20M	QPSK	100	0	-	Front	5mm	Ant 1	Sensor On	40620	2593	16.33	17.50	1.309	42.9	1.009	-0.03	0.576	0.761
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	40620	2593	16.49	17.50	1.262	42.9	1.009	-0.15	0.463	0.589
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	40620	2593	16.45	17.50	1.274	42.9	1.009	0.02	0.448	0.576
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	Sensor On	40620	2593	16.49	17.50	1.262	42.9	1.009	0.07	0.112	0.143
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	Sensor On	40620	2593	16.45	17.50	1.274	42.9	1.009	0.16	0.089	0.114
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	Sensor On	40620	2593	16.49	17.50	1.262	42.9	1.009	0.13	0.019	0.024
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	Sensor On	40620	2593	16.45	17.50	1.274	42.9	1.009	-0.18	0.010	0.013
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	40620	2593	16.49	17.50	1.262	42.9	1.009	0.02	0.607	0.773
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	39750	2506	16.10	17.50	1.380	42.9	1.009	-0.03	0.603	0.840
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	40185	2549.5	16.18	17.50	1.355	42.9	1.009	0.07	0.573	0.784
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	41055	2636.5	16.29	17.50	1.321	42.9	1.009	0.02	0.544	0.725
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	41490	2680	16.17	17.50	1.358	42.9	1.009	0.01	0.600	0.822
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	40620	2593	16.45	17.50	1.274	42.9	1.009	-0.01	0.528	0.678
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	39790	2510	16.14	17.50	1.368	42.9	1.009	0.05	0.485	0.669
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	39750	2506	16.06	17.50	1.393	42.9	1.009	0.06	0.499	0.701
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	40185	2549.5	16.24	17.50	1.337	42.9	1.009	-0.09	0.511	0.689
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	41055	2636.5	16.28	17.50	1.324	42.9	1.009	-0.08	0.507	0.677
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Sensor On	41490	2680	16.15	17.50	1.365	42.9	1.009	0.13	0.501	0.690
	LTE Band 41 HPUE	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	Sensor On	40620	2593	16.33	17.50	1.309	42.9	1.009	-0.06	0.532	0.703
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	Sensor On	40620	2593	16.49	17.50	1.262	42.9	1.009	-0.04	0.013	0.017
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	Sensor On	40620	2593	16.45	17.50	1.274	42.9	1.009	-0.09	0.008	0.010
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	40620	2593	26.86	28.00	1.300	42.9	1.009	-0.14	0.271	0.356
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	40620	2593	26.86	28.00	1.300	42.9	1.009	-0.19	0.155	0.203
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Side	32mm	Ant 1	Full power	40620	2593	26.86	28.00	1.300	42.9	1.009	0.01	0.157	0.206
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Side	20mm	Ant 1	Full power	40620	2593	26.86	28.00	1.300	42.9	1.009	0.06	0.107	0.140
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	30mm	Ant 1	Full power	40620	2593	26.86	28.00	1.300	42.9	1.009	0.02	0.553	0.725
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Bottom Side	31mm	Ant 1	Full power	40620	2593	26.86	28.00	1.300	42.9	1.009	0.12	0.001	0.001
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	507000	2535	14.61	15.00	1.094	-	-	-0.17	0.441	0.482



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	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	507000	2535	14.59	15.00	1.099	-	-	-0.1	0.513	0.564
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	507000	2535	14.61	15.00	1.094	-	-	0.18	0.215	0.235
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	507000	2535	14.59	15.00	1.099	-	-	-0.17	0.235	0.258
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	507000	2535	14.61	15.00	1.094	-	-	-0.04	0.047	0.051
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	Sensor On	507000	2535	14.59	15.00	1.099	-	-	-0.05	0.059	0.065
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	507000	2535	14.61	15.00	1.094	-	-	0.01	0.022	0.024
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	Sensor On	507000	2535	14.59	15.00	1.099	-	-	-0.13	0.031	0.034
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	507000	2535	14.61	15.00	1.094	-	-	-0.01	0.758	0.829
52	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	507000	2535	14.59	15.00	1.099	-	-	-0.09	0.889	0.977
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	5mm	Ant 1	Sensor On	507000	2535	14.56	15.00	1.107	-	-	0.05	0.827	0.915
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	507000	2535	14.61	15.00	1.094	-	-	0.02	0.012	0.013
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	Sensor On	507000	2535	14.59	15.00	1.099	-	-	-0.13	0.012	0.013
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	507000	2535	24.59	25.00	1.099	-	-	-0.16	0.268	0.295
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	507000	2535	24.59	25.00	1.099	-	-	-0.12	0.184	0.202
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	32mm	Ant 1	Full power	507000	2535	24.59	25.00	1.099	-	-	0.07	0.133	0.146
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	20mm	Ant 1	Full power	507000	2535	24.59	25.00	1.099	-	-	-0.02	0.125	0.137
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	30mm	Ant 1	Full power	507000	2535	24.59	25.00	1.099	-	-	-0.05	0.745	0.819
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	31mm	Ant 1	Full power	507000	2535	24.59	25.00	1.099	-	-	-0.13	0.001	0.001
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	518598	2592.99	16.59	18.00	1.384	50	1.000	-0.06	0.421	0.582
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	518598	2592.99	16.55	18.00	1.396	50	1.000	-0.14	0.303	0.423
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	518598	2592.99	16.59	18.00	1.384	50	1.000	-0.19	0.193	0.267
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	518598	2592.99	16.55	18.00	1.396	50	1.000	0.01	0.146	0.204
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	Sensor On	518598	2592.99	16.59	18.00	1.384	50	1.000	0.06	0.021	0.029
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	Sensor On	518598	2592.99	16.55	18.00	1.396	50	1.000	0.02	0.022	0.031
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 2	Sensor On	518598	2592.99	16.59	18.00	1.384	50	1.000	0.12	0.104	0.144
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 2	Sensor On	518598	2592.99	16.55	18.00	1.396	50	1.000	-0.16	0.103	0.144
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 2	Sensor On	518598	2592.99	16.59	18.00	1.384	50	1.000	-0.12	0.016	0.022
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 2	Sensor On	518598	2592.99	16.55	18.00	1.396	50	1.000	0.07	0.022	0.031
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	Sensor On	518598	2592.99	16.59	18.00	1.384	50	1.000	-0.02	0.784	1.085
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	Sensor On	518598	2592.99	16.55	18.00	1.396	50	1.000	-0.05	0.746	1.042
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	Sensor On	518598	2592.99	16.54	18.00	1.400	50	1.000	-0.13	0.713	0.998
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 2	Full power	518598	2592.99	25.59	27.00	1.384	50	1.000	0.08	0.287	0.397
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 2	Full power	518598	2592.99	25.59	27.00	1.384	50	1.000	0.16	0.238	0.329
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 2	Full power	518598	2592.99	25.59	27.00	1.384	50	1.000	0.01	0.079	0.109
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 2	Full power	518598	2592.99	25.59	27.00	1.384	50	1.000	-0.16	0.278	0.385
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	30mm	Ant 2	Full power	518598	2592.99	25.59	27.00	1.384	50	1.000	0.1	0.044	0.061
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	31mm	Ant 2	Full power	518598	2592.99	25.59	27.00	1.384	50	1.000	-0.04	0.318	0.440
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	14.85	16.00	1.303	50	1.000	0.08	0.454	0.592
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	14.81	16.00	1.315	50	1.000	0.16	0.514	0.676
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	518598	2592.99	14.85	16.00	1.303	50	1.000	0.01	0.211	0.275
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	518598	2592.99	14.81	16.00	1.315	50	1.000	-0.16	0.231	0.304
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	518598	2592.99	14.85	16.00	1.303	50	1.000	0.1	0.041	0.053
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	518598	2592.99	14.81	16.00	1.315	50	1.000	-0.04	0.052	0.068
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	518598	2592.99	14.85	16.00	1.303	50	1.000	-0.01	0.028	0.036
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	518598	2592.99	14.81	16.00	1.315	50	1.000	0.02	0.023	0.030
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	518598	2592.99	14.85	16.00	1.303	50	1.000	-0.11	0.723	0.942
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	518598	2592.99	14.81	16.00	1.315	50	1.000	-0.06	0.788	1.036
	FR1 n41 HPUE SA	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	518598	2592.99	14.80	16.00	1.318	50	1.000	-0.15	0.711	0.937
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	518598	2592.99	14.85	16.00	1.303	50	1.000	0.03	0.015	0.020
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	518598	2592.99	14.81	16.00	1.315	50	1.000	-0.13	0.009	0.012
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	12.99	14.00	1.262	50	1.000	-0.13	0.311	0.392
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	12.93	14.00	1.279	50	1.000	0.05	0.352	0.450
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	518598	2592.99	12.99	14.00	1.262	50	1.000	-0.11	0.144	0.182
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	518598	2592.99	12.93	14.00	1.279	50	1.000	0.07	0.158	0.202
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	518598	2592.99	12.99	14.00	1.262	50	1.000	-0.12	0.028	0.035
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	518598	2592.99	12.93	14.00	1.279	50	1.000	0.19	0.036	0.046
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	518598	2592.99	12.99	14.00	1.262	50	1.000	-0.01	0.019	0.024
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	518598	2592.99	12.93	14.00	1.279	50	1.000	-0.19	0.016	0.020



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	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	518598	2592.99	12.99	14.00	1.262	50	1.000	-0.03	0.526	0.664
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	518598	2592.99	12.93	14.00	1.279	50	1.000	0.01	0.539	0.690
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	518598	2592.99	12.99	14.00	1.262	50	1.000	0.1	0.010	0.013
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	518598	2592.99	12.93	14.00	1.279	50	1.000	0.15	0.006	0.008
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 8	Full power	518598	2592.99	25.84	27.00	1.306	50	1.000	-0.01	0.188	0.246
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 8	Full power	518598	2592.99	25.84	27.00	1.306	50	1.000	-0.13	0.213	0.278
53	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 8	Full power	518598	2592.99	25.84	27.00	1.306	50	1.000	-0.11	0.884	1.155
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 8	Full power	509202	2546.01	25.54	27.00	1.400	50	1.000	0.06	0.782	1.094
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 8	Full power	528000	2640	25.83	27.00	1.309	50	1.000	0.01	0.823	1.077
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 8	Full power	518598	2592.99	25.84	27.00	1.306	50	1.000	-0.06	0.096	0.125
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	30mm	Ant 8	Full power	518598	2592.99	25.84	27.00	1.306	50	1.000	-0.15	0.131	0.171
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	31mm	Ant 8	Full power	518598	2592.99	25.84	27.00	1.306	50	1.000	0.03	0.001	0.001
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	23.01	23.50	1.119	50	1.000	0.18	0.657	0.735
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	22.96	23.50	1.132	50	1.000	0.14	0.591	0.669
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	518598	2592.99	23.01	23.50	1.119	50	1.000	0.09	0.516	0.578
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	518598	2592.99	22.96	23.50	1.132	50	1.000	-0.13	0.317	0.359
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 1	Sensor On	518598	2592.99	23.01	23.50	1.119	50	1.000	0.02	0.922	1.032
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 1	Sensor On	518598	2592.99	22.96	23.50	1.132	50	1.000	-0.18	0.872	0.987
	FR1 n41 HPUE SA	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	5mm	Ant 1	Sensor On	518598	2592.99	22.94	23.50	1.138	50	1.000	0.12	0.836	0.951
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 1	Sensor On	518598	2592.99	23.01	23.50	1.119	50	1.000	0.11	0.054	0.060
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 1	Sensor On	518598	2592.99	22.96	23.50	1.132	50	1.000	0.11	0.028	0.032
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 1	Sensor On	518598	2592.99	23.01	23.50	1.119	50	1.000	-0.06	0.282	0.316
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 1	Sensor On	518598	2592.99	22.96	23.50	1.132	50	1.000	-0.02	0.160	0.181
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 1	Sensor On	518598	2592.99	23.01	23.50	1.119	50	1.000	0.12	0.098	0.110
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 1	Sensor On	518598	2592.99	22.96	23.50	1.132	50	1.000	0.02	0.050	0.057
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	21.09	21.50	1.099	50	1.000	0.18	0.431	0.474
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	21.06	21.50	1.107	50	1.000	0.14	0.388	0.429
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	518598	2592.99	21.09	21.50	1.099	50	1.000	0.09	0.339	0.373
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	518598	2592.99	21.06	21.50	1.107	50	1.000	-0.13	0.208	0.230
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 1	Sensor On	518598	2592.99	21.09	21.50	1.099	50	1.000	0.02	0.585	0.643
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 1	Sensor On	518598	2592.99	21.06	21.50	1.107	50	1.000	-0.18	0.440	0.487
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 1	Sensor On	518598	2592.99	21.09	21.50	1.099	50	1.000	0.11	0.035	0.038
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 1	Sensor On	518598	2592.99	21.06	21.50	1.107	50	1.000	0.11	0.018	0.020
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 1	Sensor On	518598	2592.99	21.09	21.50	1.099	50	1.000	-0.06	0.185	0.203
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 1	Sensor On	518598	2592.99	21.06	21.50	1.107	50	1.000	-0.02	0.105	0.116
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 1	Sensor On	518598	2592.99	21.09	21.50	1.099	50	1.000	0.12	0.064	0.070
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 1	Sensor On	518598	2592.99	21.06	21.50	1.107	50	1.000	0.02	0.033	0.037
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 1	Full power	518598	2592.99	27.50	28.00	1.122	50	1.000	0.16	0.305	0.342
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 1	Full power	518598	2592.99	27.50	28.00	1.122	50	1.000	-0.15	0.237	0.266
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 1	Full power	518598	2592.99	27.50	28.00	1.122	50	1.000	-0.02	0.119	0.134
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 1	Full power	518598	2592.99	27.50	28.00	1.122	50	1.000	-0.09	0.206	0.231
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	30mm	Ant 1	Full power	518598	2592.99	27.50	28.00	1.122	50	1.000	0.14	0.642	0.720
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	31mm	Ant 1	Full power	518598	2592.99	27.50	28.00	1.122	50	1.000	0.1	0.001	0.001
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	518598	2592.99	18.60	20.00	1.380	50	1.000	0.03	0.486	0.671
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	518598	2592.99	18.57	20.00	1.390	50	1.000	0.06	0.545	0.758
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	518598	2592.99	18.53	20.00	1.403	50	1.000	0.01	0.521	0.731
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	518598	2592.99	18.60	20.00	1.380	50	1.000	-0.17	0.425	0.587
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	518598	2592.99	18.57	20.00	1.390	50	1.000	0.02	0.464	0.645
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	Sensor On	518598	2592.99	18.60	20.00	1.380	50	1.000	-0.11	0.034	0.047
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 9	Sensor On	518598	2592.99	18.57	20.00	1.390	50	1.000	0.18	0.038	0.053
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	518598	2592.99	18.60	20.00	1.380	50	1.000	0.16	0.439	0.606
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	518598	2592.99	18.57	20.00	1.390	50	1.000	0.19	0.437	0.607
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 9	Sensor On	518598	2592.99	18.60	20.00	1.380	50	1.000	0.13	0.128	0.177
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 9	Sensor On	518598	2592.99	18.57	20.00	1.390	50	1.000	-0.03	0.190	0.264
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	Sensor On	518598	2592.99	18.60	20.00	1.380	50	1.000	0.12	0.058	0.080
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	Sensor On	518598	2592.99	18.57	20.00	1.390	50	1.000	0.19	0.059	0.082
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 9	Full power	518598	2592.99	23.60	25.00	1.380	50	1.000	-0.09	0.145	0.200
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 9	Full power	518598	2592.99	23.60	25.00	1.380	50	1.000	0.07	0.088	0.121



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	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 9	Full power	518598	2592.99	23.60	25.00	1.380	50	1.000	-0.09	0.001	0.001
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 9	Full power	518598	2592.99	23.60	25.00	1.380	50	1.000	-0.16	0.211	0.291
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	30mm	Ant 9	Full power	518598	2592.99	23.60	25.00	1.380	50	1.000	-0.18	0.001	0.001
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	31mm	Ant 9	Full power	518598	2592.99	23.60	25.00	1.380	50	1.000	-0.07	0.209	0.289
3500-3900MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 9	Sensor On	55830	3609	21.78	22.00	1.052	62.9	1.006	-0.13	0.100	0.106
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 9	Sensor On	55830	3609	21.76	22.00	1.057	62.9	1.006	0.17	0.078	0.083
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 9	Sensor On	55830	3609	21.78	22.00	1.052	62.9	1.006	0.06	0.515	0.545
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 9	Sensor On	55830	3609	21.76	22.00	1.057	62.9	1.006	0.11	0.434	0.461
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	Sensor On	55830	3609	21.78	22.00	1.052	62.9	1.006	-0.02	0.018	0.019
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 9	Sensor On	55830	3609	21.76	22.00	1.057	62.9	1.006	0.1	0.019	0.020
54	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	Sensor On	55830	3609	21.78	22.00	1.052	62.9	1.006	-0.01	0.574	0.607
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	Sensor On	55340	3560	21.72	22.00	1.067	62.9	1.006	0.04	0.534	0.573
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	Sensor On	56150	3641	21.63	22.00	1.089	62.9	1.006	0.13	0.516	0.565
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	Sensor On	56640	3690	21.73	22.00	1.064	62.9	1.006	-0.18	0.496	0.531
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 9	Sensor On	55830	3609	21.76	22.00	1.057	62.9	1.006	-0.11	0.510	0.542
	LTE Band 48	20M	QPSK	100	0	-	Right Side	5mm	Ant 9	Sensor On	55830	3609	21.75	22.00	1.059	62.9	1.006	0.05	0.488	0.520
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 9	Sensor On	55830	3609	21.78	22.00	1.052	62.9	1.006	-0.14	0.057	0.060
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 9	Sensor On	55830	3609	21.76	22.00	1.057	62.9	1.006	-0.19	0.039	0.041
	LTE Band 48	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	Sensor On	55830	3609	21.78	22.00	1.052	62.9	1.006	0.01	0.043	0.046
	LTE Band 48	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	Sensor On	55830	3609	21.76	22.00	1.057	62.9	1.006	0.06	0.030	0.032
	LTE Band 48	20M	QPSK	1	0	-	Front	31mm	Ant 9	Full power	55830	3609	24.75	25.00	1.059	62.9	1.006	0.02	0.031	0.033
	LTE Band 48	20M	QPSK	1	0	-	Back	30mm	Ant 9	Full power	55830	3609	24.75	25.00	1.059	62.9	1.006	0.12	0.099	0.105
	LTE Band 48	20M	QPSK	1	0	-	Left Side	32mm	Ant 9	Full power	55830	3609	24.75	25.00	1.059	62.9	1.006	-0.16	0.032	0.034
	LTE Band 48	20M	QPSK	1	0	-	Right Side	20mm	Ant 9	Full power	55830	3609	24.75	25.00	1.059	62.9	1.006	-0.12	0.128	0.136
	LTE Band 48	20M	QPSK	1	0	-	Top Side	30mm	Ant 9	Full power	55830	3609	24.75	25.00	1.059	62.9	1.006	0.07	0.036	0.038
	LTE Band 48	20M	QPSK	1	0	-	Bottom Side	31mm	Ant 9	Full power	55830	3609	24.75	25.00	1.059	62.9	1.006	-0.02	0.038	0.040
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	641666	3624.99	19.12	20.00	1.225	-	-	0.03	0.068	0.083
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	641666	3624.99	19.09	20.00	1.233	-	-	0.18	0.063	0.078
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	641666	3624.99	19.12	20.00	1.225	-	-	0.16	0.377	0.462
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	641666	3624.99	19.09	20.00	1.233	-	-	0.18	0.369	0.455
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	Sensor On	641666	3624.99	19.12	20.00	1.225	-	-	-0.15	0.013	0.016
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	5mm	Ant 9	Sensor On	641666	3624.99	19.09	20.00	1.233	-	-	0.19	0.010	0.012
55	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	641666	3624.99	19.12	20.00	1.225	-	-	-0.05	0.509	0.623
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	638000	3570	18.99	20.00	1.262	-	-	0.06	0.489	0.617
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	645332	3679.98	19.05	20.00	1.245	-	-	0.02	0.478	0.595
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	641666	3624.99	19.09	20.00	1.233	-	-	0.03	0.481	0.593
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	641666	3624.99	19.07	20.00	1.239	-	-	0.06	0.475	0.588
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 9	Sensor On	641666	3624.99	19.12	20.00	1.225	-	-	0.11	0.038	0.047
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	5mm	Ant 9	Sensor On	641666	3624.99	19.09	20.00	1.233	-	-	-0.08	0.035	0.043
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	Sensor On	641666	3624.99	19.12	20.00	1.225	-	-	-0.17	0.032	0.039
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	Sensor On	641666	3624.99	19.09	20.00	1.233	-	-	-0.08	0.030	0.037
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 9	Full power	641666	3624.99	24.06	25.00	1.242	-	-	-0.04	0.059	0.073
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 9	Full power	641666	3624.99	24.06	25.00	1.242	-	-	-0.08	0.233	0.289
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 9	Full power	641666	3624.99	24.06	25.00	1.242	-	-	0.17	0.031	0.038
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 9	Full power	641666	3624.99	24.06	25.00	1.242	-	-	0.18	0.146	0.181
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	30mm	Ant 9	Full power	641666	3624.99	24.06	25.00	1.242	-	-	-0.04	0.033	0.041
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	31mm	Ant 9	Full power	641666	3624.99	24.06	25.00	1.242	-	-	-0.08	0.039	0.048
	FR1 n77 Part 270 SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	13.55	14.50	1.245	50	1.000	0.16	0.297	0.370
	FR1 n77 Part 270 SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	13.52	14.50	1.253	50	1.000	-0.15	0.207	0.259
	FR1 n77 Part 270 SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	656000	3840	13.55	14.50	1.245	50	1.000	-0.02	0.118	0.147
	FR1 n77 Part 270 SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	656000	3840	13.52	14.50	1.253	50	1.000	-0.09	0.103	0.129
	FR1 n77 Part 270 SA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	656000	3840	13.55	14.50	1.245	50	1.000	0.14	0.821	1.022
	FR1 n77 Part 270 SA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	656000	3840	13.52	14.50	1.253	50	1.000	0.1	0.775	0.971
	FR1 n77 Part 270 SA	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	656000	3840	13.51	14.50	1.256	50	1.000	-0.09	0.738	0.927
	FR1 n77 Part 270 SA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	656000	3840	13.55	14.50	1.245	50	1.000	0.07	0.004	0.005
	FR1 n77 Part 270 SA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	656000	3840	13.52	14.50	1.253	50	1.000	-0.09	0.003	0.004



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FR1 n77 Part 270 SA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	656000	3840	13.55	14.50	1.245	50	1.000	-0.16	0.007	0.009
FR1 n77 Part 270 SA	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	656000	3840	13.52	14.50	1.253	50	1.000	-0.18	0.008	0.010
FR1 n77 Part 270 SA	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	656000	3840	13.55	14.50	1.245	50	1.000	-0.07	0.007	0.009
FR1 n77 Part 270 SA	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	656000	3840	13.52	14.50	1.253	50	1.000	0.11	0.006	0.008
FR1 n77 Part 270 NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	11.55	12.50	1.245	50	1.000	-0.03	0.191	0.238
FR1 n77 Part 270 NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	11.52	12.50	1.253	50	1.000	0.09	0.133	0.167
FR1 n77 Part 270 NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	656000	3840	11.55	12.50	1.245	50	1.000	-0.17	0.076	0.095
FR1 n77 Part 270 NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	656000	3840	11.52	12.50	1.253	50	1.000	-0.1	0.066	0.083
FR1 n77 Part 270 NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	656000	3840	11.55	12.50	1.245	50	1.000	-0.02	0.527	0.656
FR1 n77 Part 270 NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	656000	3840	11.52	12.50	1.253	50	1.000	0.17	0.433	0.543
FR1 n77 Part 270 NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	656000	3840	11.55	12.50	1.245	50	1.000	0.07	0.003	0.004
FR1 n77 Part 270 NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	656000	3840	11.52	12.50	1.253	50	1.000	0.11	0.002	0.003
FR1 n77 Part 270 NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	656000	3840	11.55	12.50	1.245	50	1.000	-0.18	0.004	0.005
FR1 n77 Part 270 NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	656000	3840	11.52	12.50	1.253	50	1.000	0.11	0.005	0.006
FR1 n77 Part 270 NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	656000	3840	11.55	12.50	1.245	50	1.000	-0.01	0.004	0.005
FR1 n77 Part 270 NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	656000	3840	11.52	12.50	1.253	50	1.000	-0.11	0.004	0.005
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 8	Full power	656000	3840	26.01	27.00	1.256	50	1.000	0.16	0.313	0.393
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 8	Full power	656000	3840	26.01	27.00	1.256	50	1.000	-0.06	0.400	0.502
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 8	Full power	656000	3840	26.01	27.00	1.256	50	1.000	0.02	0.879	1.104
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 8	Full power	650000	3750	25.99	27.00	1.262	50	1.000	0.08	0.845	1.066
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 8	Full power	662000	3930	25.71	27.00	1.346	50	1.000	0.01	0.785	1.057
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 8	Full power	656000	3840	26.01	27.00	1.256	50	1.000	-0.16	0.034	0.043
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	30mm	Ant 8	Full power	656000	3840	26.01	27.00	1.256	50	1.000	0.05	0.060	0.075
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	31mm	Ant 8	Full power	656000	3840	26.01	27.00	1.256	50	1.000	-0.03	0.071	0.089
FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	13.48	14.50	1.265	50	1.000	-0.08	0.136	0.172
FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	13.42	14.50	1.282	50	1.000	-0.1	0.146	0.187
FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	633334	3500.01	13.48	14.50	1.265	50	1.000	-0.01	0.090	0.114
FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	633334	3500.01	13.42	14.50	1.282	50	1.000	-0.09	0.088	0.113
FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	633334	3500.01	13.48	14.50	1.265	50	1.000	-0.06	0.685	0.866
FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	633334	3500.01	13.42	14.50	1.282	50	1.000	-0.17	0.703	0.901
FR1 n77 Part 27Q SA	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	633334	3500.01	13.40	14.50	1.288	50	1.000	-0.01	0.669	0.862
FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	633334	3500.01	13.48	14.50	1.265	50	1.000	-0.11	0.003	0.004
FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	633334	3500.01	13.42	14.50	1.282	50	1.000	0.14	0.003	0.004
FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	633334	3500.01	13.48	14.50	1.265	50	1.000	0.03	0.005	0.006
FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	633334	3500.01	13.42	14.50	1.282	50	1.000	0.1	0.005	0.006
FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	633334	3500.01	13.48	14.50	1.265	50	1.000	0.16	0.007	0.009
FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	633334	3500.01	13.42	14.50	1.282	50	1.000	-0.06	0.008	0.010
FR1 n77 Part 27Q NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	11.48	12.50	1.265	50	1.000	0.18	0.093	0.118
FR1 n77 Part 27Q NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	11.42	12.50	1.282	50	1.000	-0.19	0.100	0.128
FR1 n77 Part 27Q NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	633334	3500.01	11.48	12.50	1.265	50	1.000	-0.16	0.061	0.077
FR1 n77 Part 27Q NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	633334	3500.01	11.42	12.50	1.282	50	1.000	-0.08	0.060	0.077
FR1 n77 Part 27Q NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	633334	3500.01	11.48	12.50	1.265	50	1.000	0.12	0.432	0.546
FR1 n77 Part 27Q NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	Sensor On	633334	3500.01	11.42	12.50	1.282	50	1.000	0.04	0.478	0.613
FR1 n77 Part 27Q NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	633334	3500.01	11.48	12.50	1.265	50	1.000	-0.17	0.002	0.003
FR1 n77 Part 27Q NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	Sensor On	633334	3500.01	11.42	12.50	1.282	50	1.000	0.02	0.002	0.003
FR1 n77 Part 27Q NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	633334	3500.01	11.48	12.50	1.265	50	1.000	-0.07	0.004	0.005
FR1 n77 Part 27Q NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 8	Sensor On	633334	3500.01	11.42	12.50	1.282	50	1.000	-0.03	0.004	0.005
FR1 n77 Part 27Q NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	633334	3500.01	11.48	12.50	1.265	50	1.000	0.03	0.005	0.006
FR1 n77 Part 27Q NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	Sensor On	633334	3500.01	11.42	12.50	1.282	50	1.000	0.09	0.005	0.006
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 8	Full power	633334	3500.01	25.85	27.00	1.303	50	1.000	0.17	0.339	0.442
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 8	Full power	633334	3500.01	25.85	27.00	1.303	50	1.000	-0.15	0.345	0.450
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 8	Full power	633334	3500.01	25.85	27.00	1.303	50	1.000	0.16	0.641	0.835
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 8	Full power	633334	3500.01	25.85	27.00	1.303	50	1.000	0.05	0.039	0.051
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	30mm	Ant 8	Full power	633334	3500.01	25.85	27.00	1.303	50	1.000	-0.06	0.043	0.056
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	31mm	Ant 8	Full power	633334	3500.01	25.85	27.00	1.303	50	1.000	-0.13	0.050	0.065
FR1 n77 Part 270 SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	656000	3840	17.81	18.00	1.045	50	1.000	0.11	0.281	0.294
FR1 n77 Part 270 SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	656000	3840	17.79	18.00	1.050	50	1.000	-0.13	0.194	0.204
FR1 n77 Part 270 SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	656000	3840	17.81	18.00	1.045	50	1.000	0.12	0.238	0.249



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FR1 n77 Part 27O SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	656000	3840	17.79	18.00	1.050	50	1.000	-0.11	0.188	0.197
FR1 n77 Part 27O SA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 1	Sensor On	656000	3840	17.81	18.00	1.045	50	1.000	0.17	0.029	0.030
FR1 n77 Part 27O SA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 1	Sensor On	656000	3840	17.79	18.00	1.050	50	1.000	-0.16	0.018	0.019
FR1 n77 Part 27O SA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 1	Sensor On	656000	3840	17.81	18.00	1.045	50	1.000	-0.17	0.045	0.047
FR1 n77 Part 27O SA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 1	Sensor On	656000	3840	17.79	18.00	1.050	50	1.000	0.11	0.029	0.030
FR1 n77 Part 27O SA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 1	Sensor On	656000	3840	17.81	18.00	1.045	50	1.000	-0.05	0.854	0.892
FR1 n77 Part 27O SA	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 1	Sensor On	656000	3840	17.79	18.00	1.050	50	1.000	-0.01	0.798	0.838
FR1 n77 Part 27O SA	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	5mm	Ant 1	Sensor On	656000	3840	17.78	18.00	1.052	50	1.000	-0.14	0.765	0.805
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 1	Full power	656000	3840	26.74	27.00	1.062	50	1.000	0.07	0.368	0.391
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 1	Full power	656000	3840	26.74	27.00	1.062	50	1.000	0.08	0.467	0.496
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 1	Full power	656000	3840	26.74	27.00	1.062	50	1.000	0.19	0.082	0.087
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 1	Full power	656000	3840	26.74	27.00	1.062	50	1.000	-0.06	0.222	0.236
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	30mm	Ant 1	Full power	656000	3840	26.74	27.00	1.062	50	1.000	-0.03	0.735	0.780
FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	633334	3500.01	16.99	18.00	1.262	50	1.000	-0.15	0.126	0.159
FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	633334	3500.01	16.95	18.00	1.274	50	1.000	-0.12	0.100	0.127
FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	633334	3500.01	16.99	18.00	1.262	50	1.000	-0.17	0.075	0.095
FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	633334	3500.01	16.95	18.00	1.274	50	1.000	0.08	0.075	0.096
FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 1	Sensor On	633334	3500.01	16.99	18.00	1.262	50	1.000	0.01	0.011	0.014
FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 1	Sensor On	633334	3500.01	16.95	18.00	1.274	50	1.000	0.02	0.011	0.014
FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 1	Sensor On	633334	3500.01	16.99	18.00	1.262	50	1.000	-0.11	0.016	0.020
FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 1	Sensor On	633334	3500.01	16.95	18.00	1.274	50	1.000	-0.01	0.014	0.018
FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 1	Sensor On	633334	3500.01	16.99	18.00	1.262	50	1.000	0.09	0.315	0.397
FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 1	Sensor On	633334	3500.01	16.95	18.00	1.274	50	1.000	0.1	0.319	0.406
FR1 n77 Part 27Q SA	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	5mm	Ant 1	Sensor On	633334	3500.01	16.83	18.00	1.309	50	1.000	-0.04	0.267	0.350
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 1	Full power	633334	3500.01	25.89	27.00	1.291	50	1.000	0.07	0.162	0.209
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 1	Full power	633334	3500.01	25.89	27.00	1.291	50	1.000	-0.12	0.189	0.244
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 1	Full power	633334	3500.01	25.89	27.00	1.291	50	1.000	-0.03	0.046	0.059
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 1	Full power	633334	3500.01	25.89	27.00	1.291	50	1.000	0.02	0.090	0.116
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	30mm	Ant 1	Full power	633334	3500.01	25.89	27.00	1.291	50	1.000	0.12	0.417	0.538
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	656000	3840	18.55	19.00	1.109	50	1.000	0.16	0.074	0.082
FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	656000	3840	18.48	19.00	1.127	50	1.000	-0.1	0.075	0.085
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	656000	3840	18.55	19.00	1.109	50	1.000	0.07	0.305	0.338
FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	656000	3840	18.48	19.00	1.127	50	1.000	0.18	0.309	0.348
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	Sensor On	656000	3840	18.55	19.00	1.109	50	1.000	0.01	0.012	0.013
FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 9	Sensor On	656000	3840	18.48	19.00	1.127	50	1.000	-0.15	0.006	0.007
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	656000	3840	18.55	19.00	1.109	50	1.000	-0.02	0.341	0.378
FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	656000	3840	18.48	19.00	1.127	50	1.000	0.19	0.286	0.322
FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	656000	3840	18.46	19.00	1.132	50	1.000	0.07	0.297	0.336
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	Sensor On	656000	3840	18.55	19.00	1.109	50	1.000	-0.18	0.045	0.050
FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	Sensor On	656000	3840	18.48	19.00	1.127	50	1.000	0.03	0.049	0.055
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 9	Full power	656000	3840	26.40	27.00	1.148	50	1.000	0.01	0.131	0.150
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 9	Full power	656000	3840	26.40	27.00	1.148	50	1.000	-0.11	0.269	0.309
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 9	Full power	656000	3840	26.40	27.00	1.148	50	1.000	0.03	0.088	0.101
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 9	Full power	656000	3840	26.40	27.00	1.148	50	1.000	-0.05	0.309	0.355
FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	31mm	Ant 9	Full power	656000	3840	26.40	27.00	1.148	50	1.000	0.14	0.054	0.062
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	-0.08	0.220	0.307
FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	633334	3500.01	17.53	19.00	1.403	50	1.000	-0.04	0.172	0.241
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	0.17	0.391	0.546
FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	633334	3500.01	17.53	19.00	1.403	50	1.000	0.18	0.388	0.544
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	-0.08	0.017	0.024
FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 9	Sensor On	633334	3500.01	17.53	19.00	1.403	50	1.000	-0.13	0.015	0.021
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	0.01	0.539	0.753
FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	633334	3500.01	17.53	19.00	1.403	50	1.000	-0.13	0.419	0.588
FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	5mm	Ant 9	Sensor On	633334	3500.01	17.51	19.00	1.409	50	1.000	0.06	0.329	0.464
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	-0.03	0.058	0.081
FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	Sensor On	633334	3500.01	17.53	19.00	1.403	50	1.000	-0.03	0.061	0.086
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 9	Full power	633334	3500.01	25.47	27.00	1.422	50	1.000	-0.01	0.384	0.546
FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 9	Full power	633334	3500.01	25.47	27.00	1.422	50	1.000	-0.12	0.287	0.408



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	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 9	Full power	633334	3500.01	25.47	27.00	1.422	50	1.000	0.07	0.071	0.101
56	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 9	Full power	633334	3500.01	25.47	27.00	1.422	50	1.000	0.09	0.779	1.108
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	31mm	Ant 9	Full power	633334	3500.01	25.47	27.00	1.422	50	1.000	0.04	0.103	0.146
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	656000	3840	18.15	19.00	1.216	50	1.000	0.16	0.222	0.270
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	656000	3840	18.05	19.00	1.245	50	1.000	-0.1	0.204	0.254
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	656000	3840	18.15	19.00	1.216	50	1.000	0.07	0.219	0.266
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	656000	3840	18.05	19.00	1.245	50	1.000	0.18	0.207	0.258
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	Sensor On	656000	3840	18.15	19.00	1.216	50	1.000	-0.1	0.042	0.051
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	Sensor On	656000	3840	18.05	19.00	1.245	50	1.000	0.01	0.039	0.049
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 2	Sensor On	656000	3840	18.15	19.00	1.216	50	1.000	-0.15	0.079	0.096
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 2	Sensor On	656000	3840	18.05	19.00	1.245	50	1.000	0.19	0.067	0.083
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	Sensor On	656000	3840	18.15	19.00	1.216	50	1.000	0.07	0.552	0.671
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	Sensor On	656000	3840	18.05	19.00	1.245	50	1.000	-0.18	0.536	0.667
	FR1 n77 Part 27Q SA	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	Sensor On	656000	3840	18.03	19.00	1.250	50	1.000	0.03	0.493	0.616
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 2	Full power	656000	3840	26.57	27.50	1.239	50	1.000	-0.14	0.695	0.861
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 2	Full power	650000	3750	26.42	27.50	1.282	50	1.000	0.12	0.644	0.826
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 2	Full power	662000	3930	26.41	27.50	1.285	50	1.000	0.08	0.639	0.821
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 2	Full power	656000	3840	26.57	27.50	1.239	50	1.000	-0.15	0.519	0.643
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 2	Full power	656000	3840	26.57	27.50	1.239	50	1.000	-0.12	0.163	0.202
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 2	Full power	656000	3840	26.57	27.50	1.239	50	1.000	-0.17	0.317	0.393
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	31mm	Ant 2	Full power	656000	3840	26.57	27.50	1.239	50	1.000	0.08	0.539	0.668
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	-0.15	0.258	0.360
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	633334	3500.01	17.51	19.00	1.409	50	1.000	-0.15	0.255	0.359
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	0.11	0.292	0.408
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	633334	3500.01	17.51	19.00	1.409	50	1.000	-0.08	0.274	0.386
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	-0.17	0.033	0.046
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	Sensor On	633334	3500.01	17.51	19.00	1.409	50	1.000	-0.08	0.035	0.049
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 2	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	-0.04	0.124	0.173
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 2	Sensor On	633334	3500.01	17.51	19.00	1.409	50	1.000	-0.08	0.124	0.175
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	0.17	0.562	0.785
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	Sensor On	633334	3500.01	17.51	19.00	1.409	50	1.000	0.18	0.574	0.809
	FR1 n77 Part 27Q SA	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	Sensor On	633334	3500.01	17.48	19.00	1.419	50	1.000	-0.04	0.551	0.782
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 2	Full power	633334	3500.01	25.98	27.50	1.419	50	1.000	0.01	0.459	0.651
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 2	Full power	633334	3500.01	25.98	27.50	1.419	50	1.000	0.02	0.278	0.394
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	32mm	Ant 2	Full power	633334	3500.01	25.98	27.50	1.419	50	1.000	-0.11	0.094	0.133
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	20mm	Ant 2	Full power	633334	3500.01	25.98	27.50	1.419	50	1.000	-0.01	0.322	0.457
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	31mm	Ant 2	Full power	633334	3500.01	25.98	27.50	1.419	50	1.000	0.09	0.441	0.626



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Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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/ LORA																
57	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	-0.07	0.252	0.392
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(4)	Full power	6	2437	13.21	15.00	1.510	100	1.000	0.12	0.245	0.370
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(4)	Full power	11	2462	13.17	15.00	1.524	100	1.000	0.03	0.227	0.346
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	-0.17	0.135	0.210
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	-0.03	0.175	0.272
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	0.14	0.091	0.142
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	0.11	0.055	0.086
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	5mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	-0.05	0.110	0.171
	WLAN2.4GHz	802.11b 1Mbps	Front	31mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	-0.09	0.001	0.002
	WLAN2.4GHz	802.11b 1Mbps	Back	30mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	0.18	0.022	0.034
	WLAN2.4GHz	802.11b 1Mbps	Left Side	32mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	0.11	0.001	0.002
	WLAN2.4GHz	802.11b 1Mbps	Right Side	20mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	0.07	0.018	0.028
	WLAN2.4GHz	802.11b 1Mbps	Top Side	30mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	-0.03	0.018	0.028
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	31mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	0.09	0.029	0.045
	Bluetooth	1Mbps	Front	5mm	Ant 4	Full power	0	2402	8.48	8.50	1.005	76.64	1.087	-0.05	0.042	0.046
	Bluetooth	1Mbps	Front	5mm	Ant 4	Full power	39	2441	8.15	8.50	1.084	76.64	1.087	0.02	0.036	0.042
	Bluetooth	1Mbps	Front	5mm	Ant 4	Full power	78	2480	7.72	8.00	1.067	76.64	1.087	0.03	0.033	0.038
	Bluetooth	1Mbps	Back	5mm	Ant 4	Full power	0	2402	8.48	8.50	1.005	76.64	1.087	0.01	0.022	0.024
	Bluetooth	1Mbps	Left Side	5mm	Ant 4	Full power	0	2402	8.48	8.50	1.005	76.64	1.087	0.18	0.004	0.004
	Bluetooth	1Mbps	Right Side	5mm	Ant 4	Full power	0	2402	8.48	8.50	1.005	76.64	1.087	0.14	0.038	0.041
	Bluetooth	1Mbps	Top Side	5mm	Ant 4	Full power	0	2402	8.48	8.50	1.005	76.64	1.087	-0.17	0.009	0.010
	Bluetooth	1Mbps	Front	5mm	Ant 3	Full power	0	2402	7.81	8.00	1.045	76.79	1.085	-0.01	0.036	0.041
	Bluetooth	1Mbps	Back	5mm	Ant 3	Full power	0	2402	7.81	8.00	1.045	76.79	1.085	-0.08	0.036	0.041
58	Bluetooth	1Mbps	Left Side	5mm	Ant 3	Full power	0	2402	7.81	8.00	1.045	76.79	1.085	0.02	0.051	0.058
	Bluetooth	1Mbps	Left Side	5mm	Ant 3	Full power	39	2441	7.18	7.50	1.076	76.79	1.085	0.05	0.046	0.054
	Bluetooth	1Mbps	Left Side	5mm	Ant 3	Full power	78	2480	6.92	7.00	1.019	76.79	1.085	0.01	0.045	0.050
	Bluetooth	1Mbps	Right Side	5mm	Ant 3	Full power	0	2402	7.81	8.00	1.045	76.79	1.085	0.06	0.001	0.001
	Bluetooth	1Mbps	Bottom Side	5mm	Ant 3	Full power	0	2402	7.81	8.00	1.045	76.79	1.085	-0.09	0.020	0.023
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	5mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	0.17	0.092	0.138
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	5mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	-0.05	0.152	0.228
	WLAN5.2GHz	802.11n-HT40 MCS0	Left Side	5mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	0.1	0.189	0.284
59	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	5mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	0.01	0.422	0.634
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	5mm	Ant 3+4(3)	Full power	38	5190	13.13	15.00	1.538	98.54	1.015	0.06	0.385	0.601
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	5mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	0.04	0.114	0.171
	WLAN5.2GHz	802.11n-HT40 MCS0	Bottom Side	5mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	-0.01	0.025	0.038
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	31mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	-0.08	0.001	0.002
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	30mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	-0.05	0.012	0.018
	WLAN5.2GHz	802.11n-HT40 MCS0	Left Side	32mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	-0.03	0.001	0.002
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	20mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	0.17	0.011	0.017
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	30mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	-0.14	0.008	0.012
	WLAN5.2GHz	802.11n-HT40 MCS0	Bottom Side	31mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	0.06	0.012	0.018
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	0.08	0.054	0.085
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	0.01	0.145	0.229
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	0.03	0.103	0.163
60	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	0.01	0.416	0.658
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	-0.08	0.056	0.089
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Bottom Side	5mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	-0.08	0.019	0.030
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	31mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	-0.03	0.054	0.085
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	30mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	0.17	0.001	0.002
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	32mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	0.02	0.016	0.025
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	20mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	-0.05	0.001	0.002
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	30mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	0.18	0.009	0.014
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Bottom Side	31mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	-0.11	0.011	0.017



15.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
750MHz																				
	LTE Band 12 SA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Full Power	23095	707.5	23.41	24.00	1.146	-	-	0.08	0.692	0.793
	LTE Band 12 SA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Full Power	23095	707.5	22.42	23.00	1.143	-	-	0.01	0.659	0.753
62	LTE Band 12 SA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Full Power	23095	707.5	23.41	24.00	1.146	-	-	0.03	0.725	0.830
	LTE Band 12 SA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Full Power	23095	707.5	22.42	23.00	1.143	-	-	-0.08	0.620	0.709
	LTE Band 12 SA	10M	QPSK	50	0	-	Back	5mm	Ant 1	Full Power	23095	707.5	22.46	23.00	1.132	-	-	0.05	0.611	0.692
	LTE Band 12 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23095	707.5	20.99	21.50	1.125	-	-	0.08	0.420	0.472
	LTE Band 12 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23095	707.5	20.95	21.50	1.135	-	-	0.01	0.382	0.434
	LTE Band 12 NSA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	23095	707.5	20.99	21.50	1.125	-	-	-0.08	0.482	0.542
	LTE Band 12 NSA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Sensor On	23095	707.5	20.95	21.50	1.135	-	-	-0.08	0.359	0.407
	LTE Band 12	10M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	23095	707.5	23.41	24.00	1.146	-	-	0.08	0.138	0.158
	LTE Band 12	10M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	23095	707.5	23.41	24.00	1.146	-	-	0.01	0.135	0.155
	LTE Band 13 SA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.11	0.764	0.904
	LTE Band 13 SA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Full power	23230	782	23.24	24.00	1.191	-	-	-0.05	0.666	0.793
	LTE Band 13 SA	10M	QPSK	50	0	-	Front	5mm	Ant 1	Full power	23230	782	23.34	24.00	1.164	-	-	0.05	0.651	0.758
63	LTE Band 13 SA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.18	0.966	1.143
	LTE Band 13 SA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Full power	23230	782	23.24	24.00	1.191	-	-	0.14	0.766	0.912
	LTE Band 13 SA	10M	QPSK	50	0	-	Back	5mm	Ant 1	Full power	23230	782	23.34	24.00	1.164	-	-	-0.17	0.751	0.874
	LTE Band 13 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23230	782	21.36	22.00	1.159	-	-	-0.05	0.429	0.497
	LTE Band 13 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23230	782	21.35	22.00	1.161	-	-	0.18	0.374	0.434
	LTE Band 13 NSA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	23230	782	21.36	22.00	1.159	-	-	0.07	0.542	0.628
	LTE Band 13 NSA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Sensor On	23230	782	21.35	22.00	1.161	-	-	-0.17	0.435	0.505
	LTE Band 13	10M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.08	0.144	0.170
	LTE Band 13	10M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	23230	782	24.27	25.00	1.183	-	-	0.01	0.140	0.166
	LTE Band 14 SA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23330	793	24.21	24.50	1.069	-	-	0.05	0.865	0.925
	LTE Band 14 SA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23330	793	23.68	24.00	1.076	-	-	0.06	0.667	0.718
	LTE Band 14 SA	10M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	23330	793	23.58	24.00	1.102	-	-	0.01	0.648	0.714
64	LTE Band 14 SA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	23330	793	24.21	24.50	1.069	-	-	-0.09	1.010	1.080
	LTE Band 14 SA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Sensor On	23330	793	23.68	24.00	1.076	-	-	-0.08	0.875	0.942
	LTE Band 14 SA	10M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	23330	793	23.58	24.00	1.102	-	-	0.13	0.873	0.962
	LTE Band 14 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	23330	793	21.25	21.50	1.059	-	-	0.06	0.455	0.482
	LTE Band 14 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	23330	793	21.19	21.50	1.074	-	-	-0.09	0.412	0.442
	LTE Band 14 NSA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	23330	793	21.25	21.50	1.059	-	-	-0.01	0.565	0.598
	LTE Band 14 NSA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Sensor On	23330	793	21.19	21.50	1.074	-	-	0.13	0.461	0.495
	LTE Band 14	10M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	23330	793	24.63	25.00	1.089	-	-	-0.18	0.115	0.125
	LTE Band 14	10M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	23330	793	24.63	25.00	1.089	-	-	0.1	0.132	0.144
65	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	Full power	133322	683	23.94	25.00	1.276	-	-	0.08	0.715	0.913
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	Full power	133322	683	22.88	24.00	1.294	-	-	0.01	0.558	0.722
	LTE Band 71	20M	QPSK	100	0	-	Front	5mm	Ant 1	Full power	133322	683	22.91	24.00	1.285	-	-	0.05	0.523	0.672
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 1	Full power	133322	683	23.94	25.00	1.276	-	-	0.03	0.710	0.906
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	Full power	133322	683	22.88	24.00	1.294	-	-	-0.08	0.579	0.749
	LTE Band 71	20M	QPSK	100	0	-	Back	5mm	Ant 1	Full power	133322	683	22.91	24.00	1.285	-	-	0.01	0.559	0.718
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Full power	141500	707.5	23.18	24.00	1.208	-	-	-0.18	0.636	0.768
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 1	Full power	141500	707.5	23.17	24.00	1.211	-	-	-0.09	0.617	0.747
66	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Full power	141500	707.5	23.18	24.00	1.208	-	-	-0.04	0.679	0.820
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 1	Full power	141500	707.5	23.17	24.00	1.211	-	-	-0.17	0.641	0.776
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 1	Full power	141500	707.5	22.21	23.00	1.199	-	-	0.13	0.540	0.648
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	156400	782	22.25	23.00	1.189	-	-	-0.02	0.422	0.502
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	156400	782	22.23	23.00	1.194	-	-	0.13	0.522	0.623
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	156400	782	22.25	23.00	1.189	-	-	-0.16	0.552	0.656
67	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	156400	782	22.23	23.00	1.194	-	-	-0.05	0.592	0.707
	FR1 n13	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	156400	782	22.21	23.00	1.199	-	-	0.03	0.534	0.641



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	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	156400	782	24.22	25.00	1.197	-	-	-0.01	0.139	0.166
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	156400	782	24.22	25.00	1.197	-	-	-0.08	0.138	0.165
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	158600	793	22.96	24.00	1.271	-	-	0.11	0.756	0.961
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	158600	793	22.94	24.00	1.276	-	-	-0.05	0.711	0.908
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	158600	793	22.92	24.00	1.282	-	-	0.05	0.688	0.882
68	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	158600	793	22.96	24.00	1.271	-	-	0.18	0.923	1.173
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	158600	793	22.94	24.00	1.276	-	-	0.14	0.846	1.080
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	158600	793	22.92	24.00	1.282	-	-	-0.17	0.828	1.062
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	158600	793	23.94	25.00	1.276	-	-	0.13	0.131	0.167
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	158600	793	23.94	25.00	1.276	-	-	0.12	0.125	0.160
69	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	136100	680.5	24.44	25.00	1.138	-	-	0.03	0.539	0.613
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	136100	680.5	24.36	25.00	1.159	-	-	0.01	0.477	0.553
	FR1 n71	20M	QPSK	100	0	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	136100	680.5	23.54	24.00	1.112	-	-	0.06	0.419	0.466
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	136100	680.5	24.44	25.00	1.138	-	-	0.13	0.509	0.579
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	136100	680.5	24.36	25.00	1.159	-	-	0.16	0.500	0.579
835MHz																				
	LTE Band 26 SA	15M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26865	831.5	23.23	24.00	1.194	-	-	0.05	0.778	0.929
	LTE Band 26 SA	15M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26765	821.5	22.80	24.00	1.318	-	-	0.05	0.681	0.898
	LTE Band 26 SA	15M	QPSK	36	0	-	Front	5mm	Ant 1	Sensor On	26865	831.5	23.19	24.00	1.205	-	-	0.06	0.695	0.837
	LTE Band 26 SA	15M	QPSK	36	0	-	Front	5mm	Ant 1	Sensor On	26765	821.5	22.91	24.00	1.285	-	-	0.06	0.648	0.833
	LTE Band 26 SA	15M	QPSK	75	0	-	Front	5mm	Ant 1	Sensor On	26865	831.5	23.10	24.00	1.230	-	-	0.02	0.645	0.794
70	LTE Band 26 SA	15M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	26865	831.5	23.23	24.00	1.194	-	-	-0.09	0.910	1.087
	LTE Band 26 SA	15M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	26765	821.5	22.80	24.00	1.318	-	-	0.05	0.801	1.056
	LTE Band 26 SA	15M	QPSK	36	0	-	Back	5mm	Ant 1	Sensor On	26865	831.5	23.19	24.00	1.205	-	-	0.12	0.757	0.912
	LTE Band 26 SA	15M	QPSK	36	0	-	Back	5mm	Ant 1	Sensor On	26765	821.5	22.91	24.00	1.285	-	-	0.05	0.678	0.871
	LTE Band 26 SA	15M	QPSK	75	0	-	Back	5mm	Ant 1	Sensor On	26865	831.5	23.10	24.00	1.230	-	-	0.03	0.753	0.926
	LTE Band 5 NSA	10M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	20525	836.5	21.09	22.00	1.233	-	-	-0.13	0.487	0.601
	LTE Band 5 NSA	10M	QPSK	25	0	-	Front	5mm	Ant 1	Sensor On	20525	836.5	21.04	22.00	1.247	-	-	0.06	0.372	0.464
	LTE Band 5 NSA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	20525	836.5	21.09	22.00	1.233	-	-	-0.04	0.569	0.702
	LTE Band 5 NSA	10M	QPSK	25	0	-	Back	5mm	Ant 1	Sensor On	20525	836.5	21.04	22.00	1.247	-	-	-0.03	0.474	0.591
	LTE Band 26	15M	QPSK	1	1	-	Front	31mm	Ant 1	Full power	26865	831.5	23.69	25.00	1.352	-	-	0.07	0.172	0.233
	LTE Band 26	15M	QPSK	1	1	-	Back	30mm	Ant 1	Full power	26865	831.5	23.69	25.00	1.352	-	-	0.18	0.180	0.243
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	167800	839	22.65	23.00	1.084	-	-	0.19	0.716	0.776
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	167800	839	22.60	23.00	1.096	-	-	0.07	0.682	0.748
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	167800	839	22.65	23.00	1.084	-	-	-0.18	0.859	0.931
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	164800	824	22.61	23.00	1.094	-	-	0.08	0.823	0.900
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	166300	831.5	22.58	23.00	1.102	-	-	0.01	0.818	0.901
71	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	167800	839	22.60	23.00	1.096	-	-	0.03	0.972	1.066
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	164800	824	22.52	23.00	1.117	-	-	0.06	0.935	1.044
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	166300	831.5	22.50	23.00	1.122	-	-	0.02	0.928	1.041
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	167800	839	22.59	23.00	1.099	-	-	0.11	0.767	0.843
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	167800	839	23.66	24.00	1.081	-	-	0.07	0.166	0.180
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	167800	839	23.66	24.00	1.081	-	-	-0.18	0.173	0.187
1750MHz																				
72	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	132322	1745	19.22	20.00	1.197	-	-	-0.08	0.626	0.749
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	132322	1745	19.18	20.00	1.208	-	-	-0.13	0.524	0.633
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	132322	1745	19.22	20.00	1.197	-	-	-0.13	0.336	0.402
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	132322	1745	19.18	20.00	1.208	-	-	0.06	0.290	0.350
	LTE Band 66	20M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	132322	1745	24.12	25.00	1.225	-	-	-0.08	0.094	0.115
	LTE Band 66	20M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	132322	1745	24.12	25.00	1.225	-	-	-0.17	0.118	0.145
	LTE Band 66 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	132322	1745	18.79	19.00	1.050	-	-	-0.09	0.318	0.334
	LTE Band 66 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 2	Sensor On	132322	1745	18.76	19.00	1.057	-	-	0.11	0.294	0.311
	LTE Band 66 NSA	20M	QPSK	1	0	-	Back	5mm	Ant 2	Sensor On	132322	1745	18.79	19.00	1.050	-	-	-0.05	0.443	0.465
	LTE Band 66 NSA	20M	QPSK	50	0	-	Back	5mm	Ant 2	Sensor On	132322	1745	18.76	19.00	1.057	-	-	-0.08	0.382	0.404
	LTE Band 66	20M	QPSK	1	0	-	Front	31mm	Ant 2	Full power	132322	1745	23.70	24.00	1.072	-	-	0.18	0.206	0.221
	LTE Band 66	20M	QPSK	1	0	-	Back	30mm	Ant 2	Full power	132322	1745	23.70	24.00	1.072	-	-	-0.04	0.066	0.071



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73	FR1 n66 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	19.38	20.50	1.294	-	-	0.16	0.605	0.783
	FR1 n66 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	19.36	20.50	1.300	-	-	-0.03	0.555	0.722
	FR1 n66 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	349000	1745	19.38	20.50	1.294	-	-	0.07	0.265	0.343
	FR1 n66 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	349000	1745	19.36	20.50	1.300	-	-	0.18	0.289	0.376
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	17.51	18.50	1.256	-	-	0.08	0.395	0.496
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	349000	1745	17.49	18.50	1.262	-	-	0.01	0.493	0.622
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	349000	1745	17.51	18.50	1.256	-	-	-0.08	0.173	0.217
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	349000	1745	17.49	18.50	1.262	-	-	-0.08	0.189	0.238
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	349000	1745	23.93	25.00	1.279	-	-	-0.03	0.088	0.113
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	349000	1745	23.93	25.00	1.279	-	-	-0.03	0.109	0.139
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	349000	1745	18.97	20.00	1.268	-	-	-0.05	0.347	0.440
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	349000	1745	18.95	20.00	1.274	-	-	0.18	0.355	0.452
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	349000	1745	18.97	20.00	1.268	-	-	-0.17	0.438	0.555
	FR1 n66 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	349000	1745	18.95	20.00	1.274	-	-	-0.04	0.443	0.564
	FR1 n66 NSA	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	349000	1745	18.92	20.00	1.282	-	-	0.17	0.418	0.536
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 2	Full power	349000	1745	23.97	25.00	1.268	-	-	-0.12	0.216	0.274
	FR1 n66 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 2	Full power	349000	1745	23.97	25.00	1.268	-	-	0.03	0.087	0.110
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	340500	1702.5	18.40	19.50	1.288	-	-	0.08	0.613	0.790
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	340500	1702.5	18.36	19.50	1.300	-	-	0.01	0.594	0.772
74	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	340500	1702.5	18.40	19.50	1.288	-	-	0.03	0.617	0.795
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	340500	1702.5	18.36	19.50	1.300	-	-	-0.08	0.597	0.776
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 2	Full power	340500	1702.5	23.86	25.00	1.300	-	-	0.11	0.256	0.333
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 2	Full power	340500	1702.5	23.86	25.00	1.300	-	-	-0.05	0.106	0.138
1900MHz																				
	LTE Band 25 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26340	1880	17.53	18.00	1.114	-	-	0.11	0.863	0.962
	LTE Band 25 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26140	1860	17.22	18.00	1.197	-	-	-0.05	0.852	1.020
75	LTE Band 25 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	26590	1905	17.23	18.00	1.194	-	-	0.18	0.870	1.039
	LTE Band 25 SA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	26340	1880	17.41	18.00	1.146	-	-	0.14	0.603	0.691
	LTE Band 25 SA	20M	QPSK	100	0	-	Front	5mm	Ant 1	Sensor On	26340	1880	17.40	18.00	1.148	-	-	-0.17	0.605	0.695
	LTE Band 25 SA	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	26340	1880	17.53	18.00	1.114	-	-	0.17	0.455	0.507
	LTE Band 25 SA	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	26340	1880	17.41	18.00	1.146	-	-	-0.05	0.372	0.426
	LTE Band 2 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	18900	1880	15.39	16.00	1.151	-	-	-0.13	0.485	0.558
	LTE Band 2 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	18900	1880	15.35	16.00	1.161	-	-	0.06	0.398	0.462
	LTE Band 2 NSA	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	18900	1880	15.39	16.00	1.151	-	-	-0.07	0.301	0.346
	LTE Band 2 NSA	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	18900	1880	15.35	16.00	1.161	-	-	-0.12	0.246	0.286
	LTE Band 25	20M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	26340	1880	23.84	25.00	1.306	-	-	-0.03	0.218	0.285
	LTE Band 25	20M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	26340	1880	23.84	25.00	1.306	-	-	-0.15	0.200	0.261
	LTE Band 25 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	26340	1880	17.81	18.00	1.045	-	-	-0.09	0.412	0.430
	LTE Band 25 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	26140	1860	17.47	18.00	1.130	-	-	-0.08	0.429	0.485
	LTE Band 25 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 2	Sensor On	26590	1905	17.76	18.00	1.057	-	-	0.13	0.399	0.422
	LTE Band 25 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 2	Sensor On	26340	1880	17.78	18.00	1.052	-	-	0.12	0.381	0.401
	LTE Band 25 NSA	20M	QPSK	100	0	-	Front	5mm	Ant 2	Sensor On	26340	1880	17.75	18.00	1.059	-	-	0.03	0.404	0.428
	LTE Band 25 NSA	20M	QPSK	1	0	-	Back	5mm	Ant 2	Sensor On	26340	1880	17.81	18.00	1.045	-	-	0.18	0.288	0.301
	LTE Band 25 NSA	20M	QPSK	50	0	-	Back	5mm	Ant 2	Sensor On	26340	1880	17.78	18.00	1.052	-	-	0.16	0.253	0.266
	LTE Band 25	20M	QPSK	1	0	-	Front	31mm	Ant 2	Full power	26340	1880	23.62	24.00	1.091	-	-	-0.18	0.321	0.350
	LTE Band 25	20M	QPSK	1	0	-	Back	30mm	Ant 2	Full power	26340	1880	23.62	24.00	1.091	-	-	0.02	0.114	0.124
	FR1 n25 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	18.08	19.00	1.236	-	-	-0.18	0.752	0.929
76	FR1 n25 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	18.07	19.00	1.239	-	-	0.03	0.871	1.079
	FR1 n25 SA	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	18.05	19.00	1.245	-	-	-0.15	0.797	0.992
	FR1 n25 SA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	376500	1882.5	18.08	19.00	1.236	-	-	-0.15	0.627	0.775
	FR1 n25 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	376500	1882.5	18.07	19.00	1.239	-	-	0.11	0.601	0.745
	FR1 n25 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	16.46	17.00	1.132	-	-	-0.13	0.464	0.525
	FR1 n25 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	16.41	17.00	1.146	-	-	0.07	0.537	0.615
	FR1 n25 NSA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	376500	1882.5	16.46	17.00	1.132	-	-	0.16	0.399	0.452
	FR1 n25 NSA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	376500	1882.5	16.41	17.00	1.146	-	-	0.01	0.399	0.457
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	376500	1882.5	24.11	25.00	1.227	-	-	-0.01	0.189	0.232



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	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	376500	1882.5	24.11	25.00	1.227	-	-	-0.06	0.176	0.216
77	FR1 n2 NSA	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	376000	1880	18.24	19.00	1.191	-	-	-0.08	0.414	0.493
	FR1 n2 NSA	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 2	Sensor On	376000	1880	18.21	19.00	1.199	-	-	-0.13	0.408	0.489
	FR1 n2 NSA	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	376000	1880	18.24	19.00	1.191	-	-	-0.13	0.258	0.307
	FR1 n2 NSA	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 2	Sensor On	376000	1880	18.21	19.00	1.199	-	-	0.06	0.303	0.363
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 2	Full power	376000	1880	24.26	25.00	1.186	-	-	0.18	0.331	0.392
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 2	Full power	376000	1880	24.26	25.00	1.186	-	-	-0.17	0.124	0.147
2300MHz																				
78	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 9	Sensor On	27710	2310	16.73	17.50	1.194	-	-	-0.04	0.375	0.448
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 9	Sensor On	27710	2310	16.69	17.50	1.205	-	-	0.13	0.257	0.310
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 9	Sensor On	27710	2310	16.73	17.50	1.194	-	-	0.07	0.366	0.437
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 9	Sensor On	27710	2310	16.69	17.50	1.205	-	-	0.08	0.298	0.359
	LTE Band 30	10M	QPSK	1	0	-	Front	31mm	Ant 9	Full power	27710	2310	24.11	25.00	1.227	-	-	-0.09	0.156	0.191
	LTE Band 30	10M	QPSK	1	0	-	Back	30mm	Ant 9	Full power	27710	2310	24.11	25.00	1.227	-	-	0.05	0.096	0.118
79	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 9	Sensor On	462000	2310	16.08	17.00	1.236	-	-	-0.08	0.332	0.410
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 9	Sensor On	462000	2310	16.05	17.00	1.245	-	-	-0.08	0.213	0.265
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 9	Sensor On	462000	2310	16.08	17.00	1.236	-	-	0.01	0.327	0.404
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 9	Sensor On	462000	2310	16.05	17.00	1.245	-	-	-0.11	0.208	0.259
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 9	Full power	462000	2310	24.05	25.00	1.245	-	-	0.04	0.144	0.179
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 9	Full power	462000	2310	24.05	25.00	1.245	-	-	-0.04	0.088	0.110
2600MHz																				
80	LTE Band 7 SA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	13.65	14.50	1.216	-	-	-0.18	0.436	0.530
	LTE Band 7 SA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	13.61	14.50	1.227	-	-	0.1	0.372	0.457
	LTE Band 7 SA	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	21100	2535	13.65	14.50	1.216	-	-	0.12	0.201	0.244
	LTE Band 7 SA	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	21100	2535	13.61	14.50	1.227	-	-	0.08	0.179	0.220
	LTE Band 7 NSA	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	11.71	12.50	1.199	-	-	-0.05	0.284	0.341
	LTE Band 7 NSA	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	21100	2535	11.68	12.50	1.208	-	-	-0.15	0.243	0.293
	LTE Band 7 NSA	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	21100	2535	11.71	12.50	1.199	-	-	0.01	0.131	0.157
	LTE Band 7 NSA	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	21100	2535	11.68	12.50	1.208	-	-	0.02	0.117	0.141
	LTE Band 7	20M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	21100	2535	24.06	25.00	1.242	-	-	0.13	0.253	0.314
	LTE Band 7	20M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	21100	2535	24.06	25.00	1.242	-	-	-0.18	0.190	0.236
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	40620	2593	16.49	17.50	1.262	42.9	1.009	-0.09	0.702	0.894
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	39750	2506	16.10	17.50	1.380	42.9	1.009	-0.05	0.676	0.942
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	40185	2549.5	16.18	17.50	1.355	42.9	1.009	-0.08	0.682	0.933
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	41055	2636.5	16.29	17.50	1.321	42.9	1.009	0.16	0.636	0.848
81	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 1	Sensor On	41490	2680	16.17	17.50	1.358	42.9	1.009	0.05	0.774	1.061
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	40620	2593	16.45	17.50	1.274	42.9	1.009	0.05	0.577	0.741
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	39790	2510	16.14	17.50	1.368	42.9	1.009	0.1	0.545	0.752
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	39750	2506	16.06	17.50	1.393	42.9	1.009	-0.17	0.512	0.720
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	40185	2549.5	16.24	17.50	1.337	42.9	1.009	0.04	0.533	0.719
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	41055	2636.5	16.28	17.50	1.324	42.9	1.009	-0.01	0.518	0.692
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Front	5mm	Ant 1	Sensor On	41490	2680	16.15	17.50	1.365	42.9	1.009	-0.08	0.520	0.716
	LTE Band 41 HPUE	20M	QPSK	100	0	-	Front	5mm	Ant 1	Sensor On	40620	2593	16.33	17.50	1.309	42.9	1.009	-0.03	0.576	0.761
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	40620	2593	16.49	17.50	1.262	42.9	1.009	-0.15	0.463	0.589
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Back	5mm	Ant 1	Sensor On	40620	2593	16.45	17.50	1.274	42.9	1.009	0.02	0.448	0.576
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	31mm	Ant 1	Full power	40620	2593	26.86	28.00	1.300	42.9	1.009	-0.14	0.271	0.356
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	30mm	Ant 1	Full power	40620	2593	26.86	28.00	1.300	42.9	1.009	-0.19	0.155	0.203
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	507000	2535	14.61	15.00	1.094	-	-	-0.17	0.441	0.482
82	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	507000	2535	14.59	15.00	1.099	-	-	-0.1	0.513	0.564
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	507000	2535	14.61	15.00	1.094	-	-	0.18	0.215	0.235
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	507000	2535	14.59	15.00	1.099	-	-	-0.17	0.235	0.258
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	31mm	Ant 1	Full power	507000	2535	24.59	25.00	1.099	-	-	-0.16	0.268	0.295
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	30mm	Ant 1	Full power	507000	2535	24.59	25.00	1.099	-	-	-0.12	0.184	0.202
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	518598	2592.99	16.59	18.00	1.384	50	1.000	-0.06	0.421	0.582
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	518598	2592.99	16.55	18.00	1.396	50	1.000	-0.14	0.303	0.423
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	518598	2592.99	16.59	18.00	1.384	50	1.000	-0.19	0.193	0.267



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	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	518598	2592.99	16.55	18.00	1.396	50	1.000	0.01	0.146	0.204
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 2	Full power	518598	2592.99	25.59	27.00	1.384	50	1.000	0.08	0.287	0.397
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 2	Full power	518598	2592.99	25.59	27.00	1.384	50	1.000	0.16	0.238	0.329
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	14.85	16.00	1.303	50	1.000	0.08	0.454	0.592
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	14.81	16.00	1.315	50	1.000	0.16	0.514	0.676
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	518598	2592.99	14.85	16.00	1.303	50	1.000	0.01	0.211	0.275
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	518598	2592.99	14.81	16.00	1.315	50	1.000	-0.16	0.231	0.304
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	12.99	14.00	1.262	50	1.000	-0.13	0.311	0.392
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	518598	2592.99	12.93	14.00	1.279	50	1.000	0.05	0.352	0.450
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	518598	2592.99	12.99	14.00	1.262	50	1.000	-0.11	0.144	0.182
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	518598	2592.99	12.93	14.00	1.279	50	1.000	0.07	0.158	0.202
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 8	Full power	518598	2592.99	25.84	27.00	1.306	50	1.000	-0.01	0.188	0.246
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 8	Full power	518598	2592.99	25.84	27.00	1.306	50	1.000	-0.13	0.213	0.278
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	23.01	23.50	1.119	50	1.000	0.18	0.657	0.735
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	22.96	23.50	1.132	50	1.000	0.14	0.591	0.669
	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	518598	2592.99	23.01	23.50	1.119	50	1.000	0.09	0.516	0.578
	FR1 n41 HPUE SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	518598	2592.99	22.96	23.50	1.132	50	1.000	-0.13	0.317	0.359
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	21.09	21.50	1.099	50	1.000	0.18	0.431	0.474
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	518598	2592.99	21.06	21.50	1.107	50	1.000	0.14	0.388	0.429
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	518598	2592.99	21.09	21.50	1.099	50	1.000	0.09	0.339	0.373
	FR1 n41 HPUE NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	518598	2592.99	21.06	21.50	1.107	50	1.000	-0.13	0.208	0.230
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 1	Full power	518598	2592.99	27.50	28.00	1.122	50	1.000	0.16	0.305	0.342
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 1	Full power	518598	2592.99	27.50	28.00	1.122	50	1.000	-0.15	0.237	0.266
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	518598	2592.99	18.60	20.00	1.380	50	1.000	0.03	0.486	0.671
83	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	518598	2592.99	18.57	20.00	1.390	50	1.000	0.06	0.545	0.758
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	518598	2592.99	18.53	20.00	1.403	50	1.000	0.01	0.521	0.731
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	518598	2592.99	18.60	20.00	1.380	50	1.000	-0.17	0.425	0.587
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	518598	2592.99	18.57	20.00	1.390	50	1.000	0.02	0.464	0.645
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 9	Full power	518598	2592.99	23.60	25.00	1.380	50	1.000	-0.09	0.145	0.200
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 9	Full power	518598	2592.99	23.60	25.00	1.380	50	1.000	0.07	0.088	0.121
3500-3900MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 9	Sensor On	55830	3609	21.78	22.00	1.052	62.9	1.006	-0.13	0.100	0.106
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 9	Sensor On	55830	3609	21.76	22.00	1.057	62.9	1.006	0.17	0.078	0.083
84	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 9	Sensor On	55830	3609	21.78	22.00	1.052	62.9	1.006	0.06	0.515	0.545
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 9	Sensor On	55830	3609	21.76	22.00	1.057	62.9	1.006	0.11	0.434	0.461
	LTE Band 48	20M	QPSK	1	0	-	Front	31mm	Ant 9	Full power	55830	3609	24.75	25.00	1.059	62.9	1.006	0.02	0.031	0.033
	LTE Band 48	20M	QPSK	1	0	-	Back	30mm	Ant 9	Full power	55830	3609	24.75	25.00	1.059	62.9	1.006	0.12	0.099	0.105
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	641666	3624.99	19.12	20.00	1.225	-	-	0.03	0.068	0.083
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	641666	3624.99	19.09	20.00	1.233	-	-	0.18	0.063	0.078
85	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	641666	3624.99	19.12	20.00	1.225	-	-	0.16	0.377	0.462
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	641666	3624.99	19.09	20.00	1.233	-	-	0.18	0.369	0.455
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 9	Full power	641666	3624.99	24.06	25.00	1.242	-	-	-0.04	0.059	0.073
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 9	Full power	641666	3624.99	24.06	25.00	1.242	-	-	-0.08	0.233	0.289
	FR1 n77 Part 270 SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	13.55	14.50	1.245	50	1.000	0.16	0.297	0.370
	FR1 n77 Part 270 SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	13.52	14.50	1.253	50	1.000	-0.15	0.207	0.259
	FR1 n77 Part 270 SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	656000	3840	13.55	14.50	1.245	50	1.000	-0.02	0.118	0.147
	FR1 n77 Part 270 SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	656000	3840	13.52	14.50	1.253	50	1.000	-0.09	0.103	0.129
	FR1 n77 Part 270 NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	11.55	12.50	1.245	50	1.000	-0.03	0.191	0.238
	FR1 n77 Part 270 NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	656000	3840	11.52	12.50	1.253	50	1.000	0.09	0.133	0.167
	FR1 n77 Part 270 NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	656000	3840	11.55	12.50	1.245	50	1.000	-0.17	0.076	0.095
	FR1 n77 Part 270 NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	656000	3840	11.52	12.50	1.253	50	1.000	-0.1	0.066	0.083
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 8	Full power	656000	3840	26.01	27.00	1.256	50	1.000	0.16	0.313	0.393
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 8	Full power	656000	3840	26.01	27.00	1.256	50	1.000	-0.06	0.400	0.502
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	13.48	14.50	1.265	50	1.000	-0.08	0.136	0.172
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	13.42	14.50	1.282	50	1.000	-0.1	0.146	0.187
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	633334	3500.01	13.48	14.50	1.265	50	1.000	-0.01	0.090	0.114



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	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	633334	3500.01	13.42	14.50	1.282	50	1.000	-0.09	0.088	0.113
	FR1 n77 Part 27Q NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	11.48	12.50	1.265	50	1.000	0.18	0.093	0.118
	FR1 n77 Part 27Q NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	Sensor On	633334	3500.01	11.42	12.50	1.282	50	1.000	-0.19	0.100	0.128
	FR1 n77 Part 27Q NSA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	633334	3500.01	11.48	12.50	1.265	50	1.000	-0.16	0.061	0.077
	FR1 n77 Part 27Q NSA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	Sensor On	633334	3500.01	11.42	12.50	1.282	50	1.000	-0.08	0.060	0.077
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 8	Full power	633334	3500.01	25.85	27.00	1.303	50	1.000	0.17	0.339	0.442
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 8	Full power	633334	3500.01	25.85	27.00	1.303	50	1.000	-0.15	0.345	0.450
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	656000	3840	17.81	18.00	1.045	50	1.000	0.11	0.281	0.294
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	656000	3840	17.79	18.00	1.050	50	1.000	-0.13	0.194	0.204
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	656000	3840	17.81	18.00	1.045	50	1.000	0.12	0.238	0.249
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	656000	3840	17.79	18.00	1.050	50	1.000	-0.11	0.188	0.197
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 1	Full power	656000	3840	26.74	27.00	1.062	50	1.000	0.07	0.368	0.391
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 1	Full power	656000	3840	26.74	27.00	1.062	50	1.000	0.08	0.467	0.496
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	633334	3500.01	16.99	18.00	1.262	50	1.000	-0.15	0.126	0.159
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	Sensor On	633334	3500.01	16.95	18.00	1.274	50	1.000	-0.12	0.100	0.127
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	633334	3500.01	16.99	18.00	1.262	50	1.000	-0.17	0.075	0.095
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	Sensor On	633334	3500.01	16.95	18.00	1.274	50	1.000	0.08	0.075	0.096
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 1	Full power	633334	3500.01	25.89	27.00	1.291	50	1.000	0.07	0.162	0.209
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 1	Full power	633334	3500.01	25.89	27.00	1.291	50	1.000	-0.12	0.189	0.244
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	656000	3840	18.55	19.00	1.109	50	1.000	0.16	0.074	0.082
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	656000	3840	18.48	19.00	1.127	50	1.000	-0.1	0.075	0.085
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	656000	3840	18.55	19.00	1.109	50	1.000	0.07	0.305	0.338
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	656000	3840	18.48	19.00	1.127	50	1.000	0.18	0.309	0.348
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 9	Full power	656000	3840	26.40	27.00	1.148	50	1.000	0.01	0.131	0.150
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 9	Full power	656000	3840	26.40	27.00	1.148	50	1.000	-0.11	0.269	0.309
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	-0.08	0.220	0.307
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	Sensor On	633334	3500.01	17.53	19.00	1.403	50	1.000	-0.04	0.172	0.241
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	0.17	0.391	0.546
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	Sensor On	633334	3500.01	17.53	19.00	1.403	50	1.000	0.18	0.388	0.544
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 9	Full power	633334	3500.01	25.47	27.00	1.422	50	1.000	-0.01	0.384	0.546
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 9	Full power	633334	3500.01	25.47	27.00	1.422	50	1.000	-0.12	0.287	0.408
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	656000	3840	18.15	19.00	1.216	50	1.000	0.16	0.222	0.270
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	656000	3840	18.05	19.00	1.245	50	1.000	-0.1	0.204	0.254
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	656000	3840	18.15	19.00	1.216	50	1.000	0.07	0.219	0.266
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	656000	3840	18.05	19.00	1.245	50	1.000	0.18	0.207	0.258
86	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 2	Full power	656000	3840	26.57	27.50	1.239	50	1.000	-0.14	0.695	0.861
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 2	Full power	650000	3750	26.42	27.50	1.282	50	1.000	0.12	0.644	0.826
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 2	Full power	662000	3930	26.41	27.50	1.285	50	1.000	0.08	0.639	0.821
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 2	Full power	656000	3840	26.57	27.50	1.239	50	1.000	-0.15	0.519	0.643
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	-0.15	0.258	0.360
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	Sensor On	633334	3500.01	17.51	19.00	1.409	50	1.000	-0.15	0.255	0.359
	FR1 n77 Part 27Q SA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	633334	3500.01	17.55	19.00	1.396	50	1.000	0.11	0.292	0.408
	FR1 n77 Part 27Q SA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	Sensor On	633334	3500.01	17.51	19.00	1.409	50	1.000	-0.08	0.274	0.386
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	31mm	Ant 2	Full power	633334	3500.01	25.98	27.50	1.419	50	1.000	0.01	0.459	0.651
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	30mm	Ant 2	Full power	633334	3500.01	25.98	27.50	1.419	50	1.000	0.02	0.278	0.394



FCC SAR Test Report

Report No. : FA250505

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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/ LORA																
87	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	-0.07	0.252	0.392
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(4)	Full power	6	2437	13.21	15.00	1.510	100	1.000	0.12	0.245	0.370
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(4)	Full power	11	2462	13.17	15.00	1.524	100	1.000	0.03	0.227	0.346
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	-0.17	0.135	0.210
	WLAN2.4GHz	802.11b 1Mbps	Front	31mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	-0.09	0.001	0.002
	WLAN2.4GHz	802.11b 1Mbps	Back	30mm	Ant 3+4(3)	Full power	1	2412	12.58	14.50	1.556	100	1.000	0.18	0.022	0.034
88	Bluetooth	1Mbps	Front	5mm	Ant 4	Full power	0	2402	8.48	8.50	1.005	76.64	1.087	-0.05	0.042	0.046
	Bluetooth	1Mbps	Front	5mm	Ant 4	Full power	39	2441	8.15	8.50	1.084	76.64	1.087	0.02	0.036	0.042
	Bluetooth	1Mbps	Front	5mm	Ant 4	Full power	78	2480	7.72	8.00	1.067	76.64	1.087	0.03	0.033	0.038
	Bluetooth	1Mbps	Back	5mm	Ant 4	Full power	0	2402	8.48	8.50	1.005	76.64	1.087	0.01	0.022	0.024
	Bluetooth	1Mbps	Front	5mm	Ant 3	Full power	0	2402	7.81	8.00	1.045	76.79	1.085	-0.01	0.036	0.041
	Bluetooth	1Mbps	Back	5mm	Ant 3	Full power	0	2402	7.81	8.00	1.045	76.79	1.085	-0.08	0.036	0.041
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	5mm	Ant 3+4(4)	Full power	54	5270	13.31	15.00	1.476	98.54	1.015	0.01	0.070	0.105
89	WLAN5.3GHz	802.11n-HT40 MCS0	Back	5mm	Ant 3+4(4)	Full power	54	5270	13.31	15.00	1.476	98.54	1.015	0.03	0.139	0.208
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	5mm	Ant 3+4(3)	Full power	62	5310	13.72	15.50	1.507	98.54	1.015	0.02	0.121	0.185
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	31mm	Ant 3+4(4)	Full power	54	5270	13.31	15.00	1.476	98.54	1.015	-0.06	0.001	0.001
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	30mm	Ant 3+4(4)	Full power	54	5270	13.31	15.00	1.476	98.54	1.015	-0.15	0.007	0.010
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 3+4(3)	Full power	110	5550	14.24	16.00	1.500	98.54	1.015	-0.08	0.062	0.094
90	WLAN5.5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 3+4(3)	Full power	110	5550	14.24	16.00	1.500	98.54	1.015	-0.01	0.135	0.205
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 3+4(4)	Full power	102	5510	9.79	11.50	1.483	98.54	1.015	0.08	0.110	0.166
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 3+4(3)	Full power	134	5670	13.85	15.50	1.462	98.54	1.015	0.01	0.121	0.180
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	31mm	Ant 3+4(3)	Full power	110	5550	14.24	16.00	1.500	98.54	1.015	-0.12	0.001	0.002
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	30mm	Ant 3+4(3)	Full power	110	5550	14.24	16.00	1.500	98.54	1.015	-0.16	0.004	0.006
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	0.08	0.054	0.085
91	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	0.01	0.145	0.229
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	31mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	-0.03	0.054	0.085
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	30mm	Ant 3+4(3)	Full power	155	5775	9.01	11.00	1.581	100	1.000	0.17	0.001	0.002
92	LORA	DTS-500K	Front	5mm	Ant 8	Sensor On	1	904	26.48	27.00	1.127	100	0.500	0.18	1.830	1.031
	LORA	DTS-500K	Front	5mm	Ant 8	Sensor On	12	915	25.96	27.00	1.271	100	0.500	0.16	1.350	0.858
	LORA	DTS-500K	Front	5mm	Ant 8	Sensor On	23	926	25.25	27.00	1.496	100	0.500	-0.1	0.922	0.690
	LORA	DTS-500K	Back	5mm	Ant 8	Sensor On	1	904	26.48	27.00	1.127	100	0.500	0.07	1.370	0.772
	LORA	DTS-500K	Front	31mm	Ant 8	Full power	1	904	27.95	28.50	1.135	100	1.000	0.06	0.308	0.350
	LORA	DTS-500K	Back	30mm	Ant 8	Full power	1	904	27.95	28.50	1.135	100	1.000	0.01	0.385	0.437

15.4 Extremity SAR

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
WLAN																
93	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	Full power	46	5230	13.30	15.00	1.479	98.54	1.015	0.03	0.698	1.048
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	Full power	38	5190	13.13	15.00	1.538	98.54	1.015	0.01	0.611	0.954
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(4)	Full power	54	5270	13.31	15.00	1.476	98.54	1.015	0.05	0.214	0.321
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(4)	Full power	54	5270	13.31	15.00	1.476	98.54	1.015	0.06	0.633	0.948
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 3+4(4)	Full power	54	5270	13.31	15.00	1.476	98.54	1.015	-0.09	0.470	0.704
94	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(4)	Full power	54	5270	13.31	15.00	1.476	98.54	1.015	-0.02	0.975	1.460
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	Full power	62	5310	13.72	15.50	1.507	98.54	1.015	0.01	0.879	1.344
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 3+4(4)	Full power	54	5270	13.31	15.00	1.476	98.54	1.015	-0.08	0.121	0.181
	WLAN5.3GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Ant 3+4(4)	Full power	54	5270	13.31	15.00	1.476	98.54	1.015	0.13	0.043	0.064
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(3)	Full power	110	5550	14.24	16.00	1.500	98.54	1.015	0.12	0.159	0.242
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(3)	Full power	110	5550	14.24	16.00	1.500	98.54	1.015	0.03	0.635	0.967
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 3+4(3)	Full power	110	5550	14.24	16.00	1.500	98.54	1.015	0.18	0.589	0.897
95	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	Full power	110	5550	14.24	16.00	1.500	98.54	1.015	-0.08	0.775	1.180
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(4)	Full power	102	5510	9.79	11.50	1.483	98.54	1.015	-0.08	0.642	0.966
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	Full power	134	5670	13.85	15.50	1.462	98.54	1.015	-0.08	0.618	0.917
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	Full power	142	5710	13.61	15.50	1.545	98.54	1.015	-0.08	0.622	0.976
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 3+4(3)	Full power	110	5550	14.24	16.00	1.500	98.54	1.015	0.16	0.123	0.187
	WLAN5.5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Ant 3+4(3)	Full power	110	5550	14.24	16.00	1.500	98.54	1.015	-0.1	0.045	0.068

15.5 Repeated SAR Measurement

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 14 SA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	23330	793	24.21	24.50	1.069	-	-	-0.09	1.010	1	1.080
2nd	LTE Band 14 SA	10M	QPSK	1	0	-	Back	5mm	Ant 1	Sensor On	23330	793	24.21	24.50	1.069	-	-	0.01	0.995	1.015	1.064
1st	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	132572	1770	18.96	20.00	1.271	-	-	-0.12	0.916	1	1.164
2nd	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Sensor On	132572	1770	18.96	20.00	1.271	-	-	0.05	0.908	1.009	1.154
1st	FR1 n25 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	18.07	19.00	1.239	-	-	0.03	0.871	1	1.079
2nd	FR1 n25 SA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	Sensor On	376500	1882.5	18.07	19.00	1.239	-	-	0.05	0.855	1.019	1.059
1st	LORA	-	-	-	-	DTS-500K	Front	5mm	Ant 8	Sensor On	1	904	26.48	27.00	1.127	100	0.500	0.18	1.830	1	1.031
2nd	LORA	-	-	-	-	DTS-500K	Front	5mm	Ant 8	Sensor On	1	904	26.48	27.00	1.127	100	0.500	0.05	1.750	1.046	0.986
1st	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	167800	839	22.60	23.00	1.096	-	-	0.03	0.972	1	1.066
2nd	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	Sensor On	167800	839	22.60	23.00	1.096	-	-	0.01	0.966	1.006	1.059
1st	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 1	Sensor On	518598	2592.99	23.01	23.50	1.119	50	1.000	0.02	0.922	1	1.032
2nd	FR1 n41 HPUE SA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 1	Sensor On	518598	2592.99	23.01	23.50	1.119	50	1.000	0.08	0.915	1.008	1.024

General Note:

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

16. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Relay			
		Face	Body-worn	Hotspot	Extremity
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + WLAN6GHz	Yes	Yes		Yes
4.	WWAN + WLAN2.4GHz+ Bluetooth	Yes	Yes	Yes	Yes
5.	WWAN + WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
6.	WWAN + WLAN6GHz+ Bluetooth	Yes	Yes		Yes
7.	WWAN + WLAN2.4GHz+ NFC				Yes
8.	WWAN + WLAN5GHz+ NFC				Yes
9.	WWAN + WLAN6GHz+ NFC				Yes
10.	WWAN + WLAN2.4GHz+ Bluetooth+ NFC				Yes
11.	WWAN + WLAN5GHz+ Bluetooth+ NFC				Yes
12.	WWAN + WLAN6GHz+ Bluetooth+ NFC				Yes

General Note:

- EUT will choose each LTE and NR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- WWAN above includes 5G NR bands and EN-DC combination.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only). LoRa and WLAN6GHz have no hotspot function.
- The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO/MIMO antenna mode and MIMO SAR can represent SISO SAR
- EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment though they have independent antenna.
- According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.
- LoRa only has standalone and cannot transmit simultaneously with any other frequency bands.
- According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can't transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can't transmit simultaneously.
- According to the EUT characteristic, WLAN 2.4GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, Bluetooth only supports SISO mode and BT standalone SAR summed together do co-located analysis more conservatively.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
- For standalone WWAN, always choose the highest SAR among the selected WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN. This is the worst co-located analysis and can represent each band.
- For 5G NR EN-DC mode, standalone SAR performed for 5G NR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5G NR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
- All licensed modes share the same antenna part and cannot transmit simultaneously.
- The reported SAR summation is calculated based on the same configuration and test position
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
- The WLAN6GHz Sim-Tx analysis guidance with other transmitters was based on SAR test results. The simultaneous transmission and test exemption analysis were compliant with KDB 447498 D01. For the device does not support



FR2 or other MPE field measurement, therefore section 16 in the SAR report has no TER analysis according to KDB 987594 requirement.

21. The simultaneous transmission analysis, considering UWB power is very smaller and no risk, the contribution of UWB to the total TER can be neglected.

16.1 In Front of Face Exposure Conditions

WWAN Band	Exposure Position	1	3	4	5	6	7	1+4+5+6	1+3+5+6	1+5+6+7
		WWAN	WLAN2.4GHz Ant 3+4	WLAN5GHz Ant 3+4	Bluetooth Ant 3	Bluetooth Ant 4	WLAN6GHz Ant 3+4	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	Front	1.079	0.392	0.138	0.041	0.046	0.030	1.30	1.56	1.20

<ENDC>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	1+4+5+6+2	1+3+5+6+2	1+5+6+7+2
			WWAN	FR1	WLAN2.4GHz Ant 3+4	WLAN5GHz Ant 3+4	Bluetooth Ant 3	Bluetooth Ant 4	WLAN6GHz Ant 3+4	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands Ant 1(B2,B5,B12,B13,B14)	All Bands Ant 2(N66,N2)	Front	0.601	0.493	0.392	0.138	0.041	0.046	0.030	1.32	1.57	1.21
All Bands Ant 1(B2,5,B12,13,B14,7)	All Bands Ant 9(N30,N77,N78)	Front	0.601	0.410	0.392	0.138	0.041	0.046	0.030	1.24	1.49	1.13
All Bands Ant 2(B2,B66)	All Bands Ant 1(N5,71,2,25,41)	Front	0.485	0.615	0.392	0.138	0.041	0.046	0.030	1.33	1.58	1.22
All Bands Ant 2(B66)	All Bands Ant 9(N30)	Front	0.334	0.410	0.392	0.138	0.041	0.046	0.030	0.97	1.22	0.86
All Bands Ant 2(B25,B66)	All Bands Ant 8(N41,N77,N78)	Front	0.598	0.450	0.392	0.138	0.041	0.046	0.030	1.27	1.53	1.17
All Bands Ant 9(B30)	All Bands Ant 1(N2,5,66)	Front	0.448	0.622	0.392	0.138	0.041	0.046	0.030	1.30	1.55	1.19

16.2 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	3	4	5	6	1+4+5+6	1+3+5+6
		WWAN	WLAN2.4GHz Ant 3+4	WLAN5GHz Ant 3+4	Bluetooth Ant 3	Bluetooth Ant 4	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	Front	1.079	0.392	0.138	0.041	0.046	1.30	1.56
	Back	1.173	0.210	0.229	0.041	0.024	1.47	1.45
	Left side	1.068	0.272	0.284	0.058	0.004	1.41	1.40
	Right side	0.753	0.142	0.658	0.001	0.041	1.45	0.94
	Top side	1.164	0.086	0.171		0.010	1.35	1.26
	Bottom side	1.168	0.171	0.038	0.023		1.23	1.36

Sensor Off

WWAN Band	Exposure Position	1	3	4	5	6	1+4+5+6	1+3+5+6
		WWAN	WLAN2.4GHz Ant 3+4	WLAN5GHz Ant 3+4	Bluetooth Ant 3	Bluetooth Ant 4	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands Ant 1	Front	0.468	0.002	0.085	0.041	0.046	0.64	0.56
	Back	0.617	0.034	0.018	0.041	0.024	0.70	0.72
	Left side	0.206	0.002	0.025	0.058	0.004	0.29	0.27
	Right side	0.397	0.028	0.017	0.001	0.041	0.46	0.47
	Top side	1.147	0.028	0.014		0.010	1.17	1.19
	Bottom side	0.061	0.045	0.018	0.023		0.10	0.13
All Bands Ant 2	Front	0.957	0.002	0.085	0.041	0.046	1.13	1.05
	Back	0.692	0.034	0.018	0.041	0.024	0.78	0.79
	Left side	0.202	0.002	0.025	0.058	0.004	0.29	0.27
	Right side	0.457	0.028	0.017	0.001	0.041	0.52	0.53
	Top side	0.080	0.028	0.014		0.010	0.10	0.12
	Bottom side	0.715	0.045	0.018	0.023		0.76	0.78
All Bands Ant 8	Front	0.852	0.002	0.085	0.041	0.046	1.02	0.94
	Back	0.625	0.034	0.018	0.041	0.024	0.71	0.72
	Left side	1.160	0.002	0.025	0.058	0.004	1.25	1.22
	Right side	0.125	0.028	0.017	0.001	0.041	0.18	0.20
	Top side	0.171	0.028	0.014		0.010	0.20	0.21
	Bottom side	0.143	0.045	0.018	0.023		0.18	0.21
All Bands Ant 9	Front	0.546	0.002	0.085	0.041	0.046	0.72	0.64
	Back	0.408	0.034	0.018	0.041	0.024	0.49	0.51
	Left side	0.101	0.002	0.025	0.058	0.004	0.19	0.17
	Right side	1.108	0.028	0.017	0.001	0.041	1.17	1.18
	Top side	0.041	0.028	0.014		0.010	0.07	0.08
	Bottom side	0.289	0.045	0.018	0.023		0.33	0.36



<ENDC>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	1+4+5+6+2 Summed 1g SAR (W/kg)	1+3+5+6+2 Summed 1g SAR (W/kg)
			WWAN	FR1	WLAN2.4GHz Ant 3+4	WLAN5GHz Ant 3+4	Bluetooth Ant 3	Bluetooth Ant 4		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
All Bands Ant 1(B2,B5,B12,B13,B14)	All Bands Ant 2(N66,N2)	Front	0.601	0.493	0.392	0.138	0.041	0.046	1.32	1.57
		Back	0.702	0.564	0.210	0.229	0.041	0.024	1.56	1.54
		Left side	0.265	0.391	0.272	0.284	0.058	0.004	1.00	0.99
		Right side	0.141	0.322	0.142	0.658	0.001	0.041	1.16	0.65
		Top side	0.639	0.129	0.086	0.171		0.010	0.95	0.86
		Bottom side	0.104	0.683	0.171	0.038	0.023		0.85	0.98
All Bands Ant 1(B2,5,B12,13,B14,7)	All Bands Ant 9(N30,N77,N78)	Front	0.601	0.410	0.392	0.138	0.041	0.046	1.24	1.49
		Back	0.702	0.546	0.210	0.229	0.041	0.024	1.54	1.52
		Left side	0.265	0.030	0.272	0.284	0.058	0.004	0.64	0.63
		Right side	0.141	0.753	0.142	0.658	0.001	0.041	1.59	1.08
		Top side	0.639	0.021	0.086	0.171		0.010	0.84	0.76
		Bottom side	0.104	0.282	0.171	0.038	0.023		0.45	0.58
All Bands Ant 2(B2,B66)	All Bands Ant 1(N5,71,2,25,41)	Front	0.485	0.615	0.392	0.138	0.041	0.046	1.33	1.58
		Back	0.465	0.457	0.210	0.229	0.041	0.024	1.22	1.20
		Left side	0.195	0.643	0.272	0.284	0.058	0.004	1.18	1.17
		Right side	0.196	0.296	0.142	0.658	0.001	0.041	1.19	0.68
		Top side	0.083	0.418	0.086	0.171		0.010	0.68	0.60
		Bottom side	0.543	0.070	0.171	0.038	0.023		0.67	0.81
All Bands Ant 2(B66)	All Bands Ant 9(N30)	Front	0.334	0.410	0.392	0.138	0.041	0.046	0.97	1.22
		Back	0.465	0.404	0.210	0.229	0.041	0.024	1.16	1.14
		Left side	0.195	0.030	0.272	0.284	0.058	0.004	0.57	0.56
		Right side	0.196	0.680	0.142	0.658	0.001	0.041	1.58	1.06
		Top side	0.083	0.021	0.086	0.171		0.010	0.29	0.20
		Bottom side	0.543	0.282	0.171	0.038	0.023		0.89	1.02
All Bands Ant 2(B25,B66)	All Bands Ant 8(N41,N77,N78)	Front	0.598	0.450	0.392	0.138	0.041	0.046	1.27	1.53
		Back	0.465	0.202	0.210	0.229	0.041	0.024	0.96	0.94
		Left side	0.195	0.761	0.272	0.284	0.058	0.004	1.30	1.29
		Right side	0.196	0.024	0.142	0.658	0.001	0.041	0.92	0.40
		Top side	0.083	0.690	0.086	0.171		0.010	0.95	0.87
		Bottom side	0.543	0.013	0.171	0.038	0.023		0.62	0.75
All Bands Ant 9(B30)	All Bands Ant 1(N2,5,66)	Front	0.448	0.622	0.392	0.138	0.041	0.046	1.30	1.55
		Back	0.437	0.457	0.210	0.229	0.041	0.024	1.19	1.17
		Left side	0.014	0.125	0.272	0.284	0.058	0.004	0.49	0.47
		Right side	0.567	0.296	0.142	0.658	0.001	0.041	1.56	1.05
		Top side	0.006	0.675	0.086	0.171		0.010	0.86	0.78
		Bottom side	0.258	0.033	0.171	0.038	0.023		0.35	0.49


Sensor Off

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	1+4+5+6+2	1+3+5+6+2
			WWAN	FR1	WLAN2.4GHz Ant 3+4	WLAN5GHz Ant 3+4	Bluetooth Ant 3	Bluetooth Ant 4	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands Ant 1(B2,B5,B12,B13,B14)	All Bands Ant 2(N66,N2)	Front	0.285	0.392	0.002	0.085	0.041	0.046	0.85	0.77
		Back	0.261	0.147	0.034	0.018	0.041	0.024	0.49	0.51
		Left side	0.093	0.104	0.002	0.025	0.058	0.004	0.28	0.26
		Right side	0.475	0.279	0.028	0.017	0.001	0.041	0.81	0.82
		Top side	0.187	0.080	0.028	0.014		0.010	0.29	0.31
		Bottom side	0.061	0.671	0.045	0.018	0.023		0.77	0.80
All Bands Ant 1(B2,B5,B12,B13,B14,B7)	All Bands Ant 9(N30,N77,N78)	Front	0.314	0.546	0.002	0.085	0.041	0.046	1.03	0.95
		Back	0.261	0.408	0.034	0.018	0.041	0.024	0.75	0.77
		Left side	0.185	0.101	0.002	0.025	0.058	0.004	0.37	0.35
		Right side	0.397	1.108	0.028	0.017	0.001	0.041	1.56	1.58
		Top side	0.959	0.001	0.028	0.014		0.010	0.98	1.00
		Bottom side	0.061	0.229	0.045	0.018	0.023		0.33	0.36
All Bands Ant 2(B2,B66)	All Bands Ant 1(N5,71,2,25,41)	Front	0.350	0.342	0.002	0.085	0.041	0.046	0.86	0.78
		Back	0.124	0.266	0.034	0.018	0.041	0.024	0.47	0.49
		Left side	0.079	0.134	0.002	0.025	0.058	0.004	0.30	0.28
		Right side	0.235	0.369	0.028	0.017	0.001	0.041	0.66	0.67
		Top side	0.058	0.720	0.028	0.014		0.010	0.80	0.82
		Bottom side	0.581	0.041	0.045	0.018	0.023		0.66	0.69
All Bands Ant 2(B66)	All Bands Ant 9(N30)	Front	0.221	0.179	0.002	0.085	0.041	0.046	0.57	0.49
		Back	0.071	0.110	0.034	0.018	0.041	0.024	0.26	0.28
		Left side	0.077	0.001	0.002	0.025	0.058	0.004	0.17	0.14
		Right side	0.189	0.223	0.028	0.017	0.001	0.041	0.47	0.48
		Top side	0.058	0.001	0.028	0.014		0.010	0.08	0.10
		Bottom side	0.581	0.229	0.045	0.018	0.023		0.85	0.88
All Bands Ant 2(B25,B66)	All Bands Ant 8(N41,N77,N78)	Front	0.350	0.852	0.002	0.085	0.041	0.046	1.37	1.29
		Back	0.124	0.625	0.034	0.018	0.041	0.024	0.83	0.85
		Left side	0.079	1.160	0.002	0.025	0.058	0.004	1.33	1.30
		Right side	0.235	0.125	0.028	0.017	0.001	0.041	0.42	0.43
		Top side	0.058	0.171	0.028	0.014		0.010	0.25	0.27
		Bottom side	0.581	0.143	0.045	0.018	0.023		0.77	0.79
All Bands Ant 9(B30)	All Bands Ant 1(N2,5,66)	Front	0.191	0.232	0.002	0.085	0.041	0.046	0.60	0.51
		Back	0.118	0.216	0.034	0.018	0.041	0.024	0.42	0.43
		Left side	0.001	0.068	0.002	0.025	0.058	0.004	0.16	0.13
		Right side	0.236	0.369	0.028	0.017	0.001	0.041	0.66	0.68
		Top side	0.001	0.149	0.028	0.014		0.010	0.17	0.19
		Bottom side	0.263	0.041	0.045	0.018	0.023		0.35	0.37

16.3 Body-Worn Exposure Conditions

WWAN Band	Exposure Position	1	3	4	5	6	7	1+4+5+6	1+3+5+6	1+5+6+7
		WWAN	WLAN2.4GHz Ant 3+4	WLAN5GHz Ant 3+4	Bluetooth Ant 3	Bluetooth Ant 4	WLAN6GHz Ant 3+4	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	Front	1.079	0.392	0.138	0.041	0.046	0.030	1.30	1.56	1.20
	Back	1.173	0.210	0.229	0.041	0.024	0.256	1.47	1.45	1.49

Sensor Off

WWAN Band	Exposure Position	1	3	4	5	6	7	1+4+5+6	1+3+5+6	1+5+6+7
		WWAN	WLAN2.4GHz Ant 3+4	WLAN5GHz Ant 3+4	Bluetooth Ant 3	Bluetooth Ant 4	WLAN6GHz Ant 3+4	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands Ant 1	Front	0.468	0.002	0.085	0.041	0.046	0.030	0.64	0.56	0.59
	Back	0.617	0.034	0.018	0.041	0.024	0.256	0.70	0.72	0.94
All Bands Ant 2	Front	0.957	0.002	0.085	0.041	0.046	0.030	1.13	1.05	1.07
	Back	0.692	0.034	0.018	0.041	0.024	0.256	0.78	0.79	1.01
All Bands Ant 8	Front	0.852	0.002	0.085	0.041	0.046	0.030	1.02	0.94	0.97
	Back	0.625	0.034	0.018	0.041	0.024	0.256	0.71	0.72	0.95
All Bands Ant 9	Front	0.546	0.002	0.085	0.041	0.046	0.030	0.72	0.64	0.66
	Back	0.408	0.034	0.018	0.041	0.024	0.256	0.49	0.51	0.73

<ENDC>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	1+4+5+6+2	1+3+5+6+2	1+5+6+7+2
			WWAN	FR1	WLAN2.4GHz Ant 3+4	WLAN5GHz Ant 3+4	Bluetooth Ant 3	Bluetooth Ant 4	WLAN6GHz Ant 3+4	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands Ant 1(B2,B5,B12,B13,B14)	All Bands Ant 2(N66,N2)	Front	0.601	0.493	0.392	0.138	0.041	0.046	0.030	1.32	1.57	1.21
		Back	0.702	0.564	0.210	0.229	0.041	0.024	0.256	1.56	1.54	1.59
All Bands Ant 1(B2,5,B12,13,B14,7)	All Bands Ant 9(N30,N77,N78)	Front	0.601	0.410	0.392	0.138	0.041	0.046	0.030	1.24	1.49	1.13
		Back	0.702	0.546	0.210	0.229	0.041	0.024	0.256	1.54	1.52	1.57
All Bands Ant 2(B2,B66)	All Bands Ant 1(N5,71,2,25,41)	Front	0.485	0.615	0.392	0.138	0.041	0.046	0.030	1.33	1.58	1.22
		Back	0.465	0.457	0.210	0.229	0.041	0.024	0.256	1.22	1.20	1.24
All Bands Ant 2(B66)	All Bands Ant 9(N30)	Front	0.334	0.410	0.392	0.138	0.041	0.046	0.030	0.97	1.22	0.86
		Back	0.465	0.404	0.210	0.229	0.041	0.024	0.256	1.16	1.14	1.19
All Bands Ant 2(B25,B66)	All Bands Ant 8(N41,N77,N78)	Front	0.598	0.450	0.392	0.138	0.041	0.046	0.030	1.27	1.53	1.17
		Back	0.465	0.202	0.210	0.229	0.041	0.024	0.256	0.96	0.94	0.99
All Bands Ant 9(B30)	All Bands Ant 1(N2,5,66)	Front	0.448	0.622	0.392	0.138	0.041	0.046	0.030	1.30	1.55	1.19
		Back	0.437	0.457	0.210	0.229	0.041	0.024	0.256	1.19	1.17	1.22

Sensor Off

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	1+4+5+6+2	1+3+5+6+2	1+5+6+7+2
			WWAN	FR1	WLAN2.4GHz Ant 3+4	WLAN5GHz Ant 3+4	Bluetooth Ant 3	Bluetooth Ant 4	WLAN6GHz Ant 3+4	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands Ant 1(B2,B5,B12,B13,B14)	All Bands Ant 2(N66,N2)	Front	0.285	0.392	0.002	0.085	0.041	0.046	0.030	0.85	0.77	0.79
		Back	0.261	0.147	0.034	0.018	0.041	0.024	0.256	0.49	0.51	0.73
All Bands Ant 1(B2,B5,B12,B13,B14,B7)	All Bands Ant 9(N30,N77,N78)	Front	0.314	0.546	0.002	0.085	0.041	0.046	0.030	1.03	0.95	0.98
		Back	0.261	0.408	0.034	0.018	0.041	0.024	0.256	0.75	0.77	0.99
All Bands Ant 2(B2,B66)	All Bands Ant 1(N5,71,2,25,41)	Front	0.350	0.342	0.002	0.085	0.041	0.046	0.030	0.86	0.78	0.81
		Back	0.124	0.266	0.034	0.018	0.041	0.024	0.256	0.47	0.49	0.71
All Bands Ant 2(B66)	All Bands Ant 9(N30)	Front	0.221	0.179	0.002	0.085	0.041	0.046	0.030	0.57	0.49	0.52
		Back	0.071	0.110	0.034	0.018	0.041	0.024	0.256	0.26	0.28	0.50
All Bands Ant 2(B25,B66)	All Bands Ant 8(N41,N77,N78)	Front	0.350	0.852	0.002	0.085	0.041	0.046	0.030	1.37	1.29	1.32
		Back	0.124	0.625	0.034	0.018	0.041	0.024	0.256	0.83	0.85	1.07
All Bands Ant 9(B30)	All Bands Ant 1(N2,5,66)	Front	0.191	0.232	0.002	0.085	0.041	0.046	0.030	0.60	0.51	0.54
		Back	0.118	0.216	0.034	0.018	0.041	0.024	0.256	0.42	0.43	0.66

16.4 Extremity SAR Exposure Conditions

WWAN Band	Exposure Position	1	2	3	1+3	2+3
		WLAN5GHz Ant 3+4	WLAN6GHz Ant 3+4	NFC	Summed	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
All Bands	Front	0.321	0.019	0.001	0.32	0.02
	Back	0.967	0.130	0.005	0.97	0.14
	Left side	0.897	0.085	0.001	0.90	0.09
	Right side	1.460	0.407	0.001	1.46	0.41
	Top side	0.187	0.007	0.001	0.19	0.01
	Bottom side	0.068	0.004	0.001	0.07	0.01

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17. Uncertainty Assessment

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

18. References

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

Appendixes

Please refer to separated files for the following appendixes

Appendix A. Plots of System Performance Check

Appendix B. Plots of High SAR Measurement

Appendix C. DASY Calibration Certificate

Appendix D. Test Setup Photos

Appendix E. Conducted RF Output Power Table

Appendix F. Power reduction mechanism verification

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