



Certificate #4312.01

FCC TEST REPORT

Product Name: Smartphone
Trade Mark: INVENTUS
Model No.: Inventus PD1
Add. Model No.: N/A
Report Number: 26052925036RFM-2
Test Standards: FCC 47 CFR Part 22
FCC 47 CFR Part 24
FCC 47 CFR Part 27
FCC 47 CFR Part 90
FCC ID: 2BDXXPD1
Test Result: PASS
Date of Issue: September 29, 2026

Prepared for:

INVENTUS GROUP LTD
C/O FLB ACCOUNTANTS LLP 1010 ESKDALE ROAD
WINNERSH TRIANGLE WOKINGHAM UNITED KINGDOM RG41 5TS

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September 29, 2026

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UTTR-RF-FCC4G-V1.1

Version

Version No.	Date	Description
V1.0	September 29, 2026	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	INVENTUS GROUP LTD
Address of Applicant:	C/O FLB ACCOUNTANTS LLP 1010 ESKDALE ROAD WINNERSH TRIANGLE WOKINGHAM UNITED KINGDOM RG41 5TS
Manufacturer:	INVENTUS GROUP LTD
Address of Manufacturer:	C/O FLB ACCOUNTANTS LLP 1010 ESKDALE ROAD WINNERSH TRIANGLE WOKINGHAM UNITED KINGDOM RG41 5TS

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Smartphone			
Model No.:	Inventus PD1			
Trade Mark:	INVENTUS			
DUT Stage:	Identical Prototype			
EUT Supports Function: (Provided by the customer)	GSM Bands:	GSM 850/ PCS 1900		
	UTRA Bands:	Band II/ Band IV/ Band V		
	E-UTRA Bands:	FDD Band 2/ 4/ 5/ 7/ 12/ 13/ 17/ 25/ 26/ 30/ 66/ 71		
		TDD Band 38/ 41/ 42/ 43/ 48		
	NR Bands:	FDD n2/ 5/ 7/ 12/ 25/ 26/ 66/ 71		
		TDD n38/ 41/ 77/ 78		
	2.4 GHz ISM Band:	IEEE 802.11b/g/n/ax		
		Bluetooth V5.4		
	U-NII 5 GHz Bands:	5 150 - 5 250 MHz	IEEE 802.11a/n/ac/ax	
		5 250 - 5 350 MHz	IEEE 802.11a/n/ac/ax	
		5 470 - 5 725 MHz	IEEE 802.11a/n/ac/ax	
		5 725 - 5 850 MHz	IEEE 802.11a/n/ac/ax	
	U-NII 6 GHz Bands:	5 925 - 6 425 MHz	IEEE 802.11ax	
		6 425 - 6 525 MHz	IEEE 802.11ax	
6 525 - 6 875 MHz		IEEE 802.11ax		
6 875 - 7 125 MHz		IEEE 802.11ax		
RNSS Bands:	1559 - 1610 MHz	GPS/ Galileo/ GLONASS/ BDS		
NFC:	13.553 MHz to 13.567 MHz			
WPTs (Only Rx):	119 kHz to 140 kHz			
Software Version:	SW1_V4.10_GPD1INVS_ROW_A16_040826 (Provided by the customer)			
Hardware Version:	HW1 (Provided by the customer)			
Sample Received Date:	May 25, 2026			
Sample Tested Date:	June 2, 2026 to August 27, 2026			
Remark:	The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.			

1.2.2 Description of Accessories

Refer to Report 26052925036EMC-1 for accessories.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Support Networks:	LTE	FDD Band 2/ 4/ 5/ 7/ 12/ 13/ 17/ 25/ 26/ 30/ 66/ 71						
		TDD Band 38/ 41						
		UL CA: CA_7C, CA_41C, CA_66C						
	5G NR	FDD n2/ 5/ 7/ 12/ 25/ 26/ 66/ 71						
Type of Modulation:	LTE	TDD n38/ 41						
		QPSK, 16QAM, 64QAM, 256QAM						
		5G NR						
	5G NR	DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM; CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM						
5G NR SCS:	TDD (n38/41): 30 kHz FDD (n2/5/7/12/25/26/66/71): 15 kHz							
5G NR UE Channel Bandwidth	n2:	5/10/15/20 MHz						
	n5:	5/10/15/20 MHz						
	n7:	5/10/15/20 MHz						
	n12:	5/10/15 MHz						
	n25:	5/10/15/20 MHz						
	n26:	5/10/15/20 MHz						
	n66:	5/10/15/20/25/30/40 MHz						
	n71:	5/10/15/20 MHz						
	n38:	10/15/20 MHz						
	n41:	10/15/20/30/40/50/60/80/90/100 MHz						
Antenna Type: (Provided by the customer)	PIFA Antenna							
Antenna Gain (dBi): (Provided by the customer)	Band	Ant 0	Ant 1	Ant 2	Ant 3	Ant 4	Ant 6	
	LTE Band 2/ 5G NR n2:	--	0.8	--	--	0.4	--	
	LTE Band 4:	--	1.0	--	--	-1.4	--	
	LTE Band 5/ 5G NR n5:	-4.0	--	--	--	--	--	
	LTE Band 7/ 5G NR n7:	-0.4	--	--	--	-0.3	--	
	LTE Band 12/ 5G NR n12:	-5.5	--	--	--	--	--	
	LTE Band 13:	-5.5	--	--	--	--	--	
	LTE Band 17:	-5.5	--	--	--	--	--	
	LTE Band 25/ 5G NR n25:	--	0.8	--	--	0.4	--	
	LTE Band 26/ 5G NR n26:	-4.0	--	--	--	--	--	
	LTE Band 30	-1.2	--	--	--	--	--	
	LTE Band 38/ 5G NR n38:	-0.4	--	--	--	-1.1	--	
	LTE Band 41:	-0.4	--	--	--	-0.3	--	
	5G NR n41:	-0.4	--	-2.6	--	-0.3	-5.8	
	LTE Band 66/ 5G NR n66:	--	1.0	--	--	-1.4	--	
	LTE Band 71/ 5G NR n71:	-2.2	--	--	--	--	--	
Sample No.:	Radiated: S202606088878-ZJC002/4							
	Conducted: S202605258698-ZJB07/12, S202605258698-ZJB06/12, S202605258698-ZJB09/12							
Normal Test Voltage:	3.87 Vdc							
Extreme Test Voltage:	3.5 to 4.45 Vdc							
Extreme Test Temperature:	-30 ℃ to +50 ℃							

Summary of Results 1:							
Bands	BW	Modulation	Frequency Range	ERP/EIRP		99% BW	Emission Designator
	(MHz)			(dBm)	(W)		
2	1.4	QPSK	1850.7-1909.3	25.8	0.3802	1.096	1M10G7D
		16QAM/64QAM/256QAM		25.8	0.3802	1.099	1M10W7D
	3	QPSK	1851.5-1908.5	25.8	0.3802	2.699	2M70G7D
		16QAM/64QAM/256QAM		25.8	0.3802	2.695	2M70W7D
	5	QPSK	1852.5-1907.5	25.8	0.3802	4.501	4M50G7D
		16QAM/64QAM/256QAM		25.8	0.3802	4.504	4M50W7D
	10	QPSK	1855.0-1905.0	25.8	0.3802	8.986	8M99G7D
		16QAM/64QAM/256QAM		25.8	0.3802	8.991	8M99W7D
	15	QPSK	1857.5-1902.5	25.8	0.3802	13.485	13M5G7D
		16QAM/64QAM/256QAM		25.8	0.3802	13.487	13M5W7D
	20	QPSK	1860.0-1900.0	25.8	0.3802	17.976	18M0G7D
		16QAM/64QAM/256QAM		25.8	0.3802	17.986	18M0W7D
4	1.4	QPSK	1710.7-1754.3	25.5	0.3548	1.097	1M10G7D
		16QAM/64QAM/256QAM		25.5	0.3548	1.094	1M09W7D
	3	QPSK	1711.5-1753.5	25.5	0.3548	2.696	2M70G7D
		16QAM/64QAM/256QAM		25.5	0.3548	2.692	2M69W7D
	5	QPSK	1712.5-1752.5	25.5	0.3548	4.507	4M51G7D
		16QAM/64QAM/256QAM		25.5	0.3548	4.514	4M51W7D
	10	QPSK	1715-1750	25.5	0.3548	8.986	8M99G7D
		16QAM/64QAM/256QAM		25.5	0.3548	8.978	8M98W7D
	15	QPSK	1717.5-1747.5	25.5	0.3548	13.491	13M5G7D
		16QAM/64QAM/256QAM		25.5	0.3548	13.470	13M5W7D
	20	QPSK	1720-1745	25.5	0.3548	17.994	18M0G7D
		16QAM/64QAM/256QAM		25.5	0.3548	18.028	18M0W7D
5	1.4	QPSK	824.7-848.3	18.9	0.0767	1.095	1M10G7D
		16QAM/64QAM/256QAM		18.9	0.0767	1.099	1M10W7D
	3	QPSK	825.5-847.5	18.9	0.0767	2.695	2M70G7D
		16QAM/64QAM/256QAM		18.9	0.0767	2.693	2M69W7D
	5	QPSK	826.5-846.5	18.9	0.0767	4.506	4M51G7D
		16QAM/64QAM/256QAM		18.9	0.0767	4.512	4M51W7D
	10	QPSK	829-844	18.9	0.0767	8.989	8M99G7D
		16QAM/64QAM/256QAM		18.9	0.0767	8.981	8M98W7D
	15	QPSK	2502.5-2567.5	24.2	0.2630	4.504	4M50G7D
		16QAM/64QAM/256QAM		24.2	0.2630	4.502	4M50W7D
7	10	QPSK	2505-2565	24.2	0.2630	8.984	8M98G7D
		16QAM/64QAM/256QAM		24.2	0.2630	8.970	8M97W7D
	15	QPSK	2507.5-2562.5	24.2	0.2630	13.484	13M5G7D
		16QAM/64QAM/256QAM		24.2	0.2630	13.488	13M5W7D
	20	QPSK	2510-2560	24.2	0.2630	17.965	18M0G7D
		16QAM/64QAM/256QAM		24.2	0.2630	17.999	18M0W7D
	7C	QPSK	2510-2560	23.9	0.2455	37.554	37M6G7D
		16QAM/64QAM/256QAM		23.9	0.2455	37.485	37M5W7D
12	1.4	QPSK	699.7-715.3	17.4	0.0543	1.098	1M10G7D
		16QAM/64QAM/256QAM		17.4	0.0543	1.098	1M10W7D
	3	QPSK	700.5-714.5	17.4	0.0543	2.702	2M70G7D
		16QAM/64QAM/256QAM		17.4	0.0543	2.694	2M69W7D
	5	QPSK	701.5-713.5	17.4	0.0543	4.500	4M50G7D
		16QAM/64QAM/256QAM		17.4	0.0543	4.511	4M51W7D
	10	QPSK	704-711	17.4	0.0543	8.986	8M99G7D
		16QAM/64QAM/256QAM		17.4	0.0543	8.987	8M99W7D
	13	QPSK	779.5-784.5	17.4	0.0543	4.509	4M51G7D
		16QAM/64QAM/256QAM		17.4	0.0543	4.516	4M52W7D
17	10	QPSK	782-782	17.4	0.0543	8.969	8M97G7D
		16QAM/64QAM/256QAM		17.4	0.0543	8.972	8M97W7D
	5	QPSK	706.5-713.5	17.4	0.0543	4.500	4M50G7D
		16QAM/64QAM/256QAM		17.4	0.0543	4.511	4M51W7D
	10	QPSK	709-711	17.4	0.0543	8.986	8M99G7D
		16QAM/64QAM/256QAM		17.4	0.0543	8.987	8M99W7D
25	1.4	QPSK	1850.7-1914.3	25.8	0.3802	1.096	1M10G7D
		16QAM/64QAM/256QAM		25.8	0.3802	1.099	1M10W7D
	3	QPSK	1851.5-1913.5	25.8	0.3802	2.699	2M70G7D
		16QAM/64QAM/256QAM		25.8	0.3802	2.695	2M70W7D
	5	QPSK	1852.5-1912.5	25.8	0.3802	4.501	4M50G7D
		16QAM/64QAM/256QAM		25.8	0.3802	4.504	4M50W7D
	10	QPSK	1855.0-1910.0	25.8	0.3802	8.986	8M99G7D
		16QAM/64QAM/256QAM		25.8	0.3802	8.986	8M99W7D

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Summary of Results 1:							
Bands	BW	Modulation	Frequency Range	ERP/EIRP		99% BW	Emission Designator
	(MHz)			(dBm)	(W)		
	15	16QAM/64QAM/256QAM	1857.5-1907.5	25.8	0.3802	8.991	8M99W7D
		QPSK		25.8	0.3802	13.485	13M5G7D
	20	16QAM/64QAM/256QAM	1860.0-1905.0	25.8	0.3802	13.487	13M5W7D
		QPSK		25.8	0.3802	17.976	18M0G7D
		16QAM/64QAM/256QAM		25.8	0.3802	17.986	18M0W7D
		QPSK		18.9	0.0767	1.095	1M10G7D
26	1.4	16QAM/64QAM/256QAM	824.7-848.3	18.9	0.0767	1.099	1M10W7D
		QPSK		18.9	0.0767	2.695	2M70G7D
	3	16QAM/64QAM/256QAM	825.5-847.5	18.9	0.0767	2.693	2M69W7D
		QPSK		18.9	0.0767	4.506	4M51G7D
	5	16QAM/64QAM/256QAM	826.5-846.5	18.9	0.0767	4.512	4M51W7D
		QPSK		18.9	0.0767	8.989	8M99G7D
	10	16QAM/64QAM/256QAM	829-844	18.9	0.0767	8.981	8M98W7D
		QPSK		18.9	0.0767	13.484	13M5G7D
	15	16QAM/64QAM/256QAM	831.5-841.5	18.9	0.0767	13.492	13M5W7D
		QPSK		23.3	0.2138	4.506	4M51G7D
	5	16QAM/64QAM/256QAM	2307.5-2312.5	23.3	0.2138	4.514	4M51W7D
		QPSK		23.3	0.2138	8.997	9M00G7D
30	10	16QAM/64QAM/256QAM	2310	23.3	0.2138	8.986	8M99W7D
		QPSK		23.6	0.2291	4.513	4M51G7D
	5	16QAM/64QAM/256QAM	2572.5-2617.5	23.6	0.2291	4.504	4M50W7D
		QPSK		23.6	0.2291	9.007	9M01G7D
38	10	16QAM/64QAM/256QAM	2575-2615	23.6	0.2291	9.006	9M01W7D
		QPSK		23.6	0.2291	13.545	13M5G7D
	15	16QAM/64QAM/256QAM	2577.5-2612.5	23.6	0.2291	13.539	13M5W7D
		QPSK		23.6	0.2291	18.040	18M0G7D
	20	16QAM/64QAM/256QAM	2580-2610	23.6	0.2291	17.997	18M0W7D
		QPSK		24.2	0.2630	4.513	4M51G7D
	5	16QAM/64QAM/256QAM	2498.5-2687.5	24.2	0.2630	4.504	4M50W7D
		QPSK		24.2	0.2630	9.007	9M01G7D
	10	16QAM/64QAM/256QAM	2501-2685	24.2	0.2630	9.006	9M01W7D
		QPSK		24.2	0.2630	13.545	13M5G7D
41	15	16QAM/64QAM/256QAM	2503.5-2682.5	24.2	0.2630	13.539	13M5W7D
		QPSK		24.2	0.2630	18.040	18M0G7D
	20	16QAM/64QAM/256QAM	2506-2680	24.2	0.2630	17.997	18M0W7D
		QPSK		24.2	0.2630	37.740	37M7G7D
	Max. 20+20	16QAM/64QAM/256QAM	2506-2680	24.2	0.2630	37.719	37M7W7D
		QPSK		25.5	0.3548	1.097	1M10G7D
	1.4	16QAM/64QAM/256QAM	1710.7-1779.3	25.5	0.3548	1.094	1M09W7D
		QPSK		25.5	0.3548	2.696	2M70G7D
66	3	16QAM/64QAM/256QAM	1711.5-1778.5	25.5	0.3548	2.692	2M69W7D
		QPSK		25.5	0.3548	4.507	4M51G7D
	5	16QAM/64QAM/256QAM	1712.5-1777.5	25.5	0.3548	4.514	4M51W7D
		QPSK		25.5	0.3548	8.986	8M99G7D
	10	16QAM/64QAM/256QAM	1715-1775	25.5	0.3548	8.978	8M98W7D
		QPSK		25.5	0.3548	13.491	13M5G7D
	15	16QAM/64QAM/256QAM	1717.5-1772.5	25.5	0.3548	13.470	13M5W7D
		QPSK		25.5	0.3548	17.994	18M0G7D
	20	16QAM/64QAM/256QAM	1720-1770	25.5	0.3548	18.028	18M0W7D
		QPSK		25.2	0.3311	37.642	37M6G7D
	Max. 20+20	16QAM/64QAM/256QAM	1720-1770	25.2	0.3311	37.565	37M6W7D
		QPSK		20.7	0.1161	4.503	4M50G7D
71	5	16QAM/64QAM/256QAM	665.5-695.5	20.7	0.1161	4.510	4M51W7D
		QPSK		20.7	0.1161	8.981	8M98G7D
	10	16QAM/64QAM/256QAM	668-693	20.7	0.1161	8.981	8M98W7D
		QPSK		20.7	0.1161	13.470	13M5G7D
	15	16QAM/64QAM/256QAM	670.5-690.5	20.7	0.1161	13.471	13M5W7D
		QPSK		20.7	0.1161	17.942	17M9G7D
	20	16QAM/64QAM/256QAM	673-688	20.7	0.1161	17.944	17M9W7D
		QPSK					
		16QAM/64QAM/256QAM					
		QPSK					

Summary of Results 2:							
5G NR	BW (MHz)	Modulation	Frequency Range (MHz)	ERP/EIRP		99% BW (MHz)	Emission Designator
				(dBm)	(W)		
n2	5	PI/2 BPSK / QPSK	1852.5-1907.5	25.3	0.3388	4.484	4M48G7D
		16QAM / 64QAM / 256QAM		25.3	0.3388	4.485	4M48W7D
	10	PI/2 BPSK / QPSK	1855.0-1905.0	25.3	0.3388	8.942	8M94G7D
		16QAM / 64QAM / 256QAM		25.3	0.3388	8.938	8M94W7D
	15	PI/2 BPSK / QPSK	1857.5-1902.5	25.3	0.3388	13.438	13M4G7D
		16QAM / 64QAM / 256QAM		25.3	0.3388	13.402	13M4W7D
n5	5	PI/2 BPSK / QPSK	826.5-846.5	25.3	0.3388	17.905	17M9G7D
		16QAM / 64QAM / 256QAM		25.3	0.3388	17.866	17M9W7D
	10	PI/2 BPSK / QPSK	829-844	18.4	0.0684	4.496	4M50G7D
		16QAM / 64QAM / 256QAM		18.4	0.0684	4.479	4M48W7D
	15	PI/2 BPSK / QPSK	831-844	18.4	0.0684	8.953	8M95G7D
		16QAM / 64QAM / 256QAM		18.4	0.0684	8.923	8M92W7D
n7	5	PI/2 BPSK / QPSK	834-839	18.4	0.0684	13.412	13M4G7D
		16QAM / 64QAM / 256QAM		18.4	0.0684	13.406	13M4W7D
	10	PI/2 BPSK / QPSK	2502.5-2567.5	18.4	0.0684	17.859	17M9G7D
		16QAM / 64QAM / 256QAM		18.4	0.0684	17.856	17M9W7D
	15	PI/2 BPSK / QPSK	2505-2565	23.6	0.2291	4.492	4M49G7D
		16QAM / 64QAM / 256QAM		23.6	0.2291	4.478	4M48W7D
n12	5	PI/2 BPSK / QPSK	2507.5-2562.5	23.6	0.2291	8.973	8M97G7D
		16QAM / 64QAM / 256QAM		23.6	0.2291	8.933	8M93W7D
	10	PI/2 BPSK / QPSK	2510-2560	23.6	0.2291	13.417	13M4G7D
		16QAM / 64QAM / 256QAM		23.6	0.2291	13.416	13M4W7D
	15	PI/2 BPSK / QPSK	701.5-713.5	23.6	0.2291	17.872	17M9G7D
		16QAM / 64QAM / 256QAM		23.6	0.2291	17.862	17M9W7D
n25	5	PI/2 BPSK / QPSK	704-711	16.9	0.0484	4.494	4M49G7D
		16QAM / 64QAM / 256QAM		16.9	0.0484	4.479	4M48W7D
	10	PI/2 BPSK / QPSK	706.5-708.5	16.9	0.0484	8.952	8M95G7D
		16QAM / 64QAM / 256QAM		16.9	0.0484	8.921	8M92W7D
	15	PI/2 BPSK / QPSK	1852.5-1912.5	16.9	0.0484	13.412	13M4G7D
		16QAM / 64QAM / 256QAM		16.9	0.0484	13.397	13M4W7D
n26	5	PI/2 BPSK / QPSK	1855.0-1910.0	25.3	0.3388	4.484	4M48G7D
		16QAM / 64QAM / 256QAM		25.3	0.3388	4.485	4M48W7D
	10	PI/2 BPSK / QPSK	1857.5-1907.5	25.3	0.3388	8.942	8M94G7D
		16QAM / 64QAM / 256QAM		25.3	0.3388	8.938	8M94W7D
	15	PI/2 BPSK / QPSK	1860.0-1905.0	25.3	0.3388	13.438	13M4G7D
		16QAM / 64QAM / 256QAM		25.3	0.3388	13.402	13M4W7D
n38	5	PI/2 BPSK / QPSK	826.5-846.5	25.3	0.3388	17.905	17M9G7D
		16QAM / 64QAM / 256QAM		25.3	0.3388	17.866	17M9W7D
	10	PI/2 BPSK / QPSK	829-844	25.3	0.3388	17.866	17M9W7D
		16QAM / 64QAM / 256QAM		25.3	0.3388	17.866	17M9W7D
	15	PI/2 BPSK / QPSK	831.5-841.5	18.4	0.0684	4.496	4M50G7D
		16QAM / 64QAM / 256QAM		18.4	0.0684	4.479	4M48W7D
n41	5	PI/2 BPSK / QPSK	834-839	18.4	0.0684	8.953	8M95G7D
		16QAM / 64QAM / 256QAM		18.4	0.0684	8.923	8M92W7D
	10	PI/2 BPSK / QPSK	2575-2615	18.4	0.0684	13.412	13M4G7D
		16QAM / 64QAM / 256QAM		18.4	0.0684	13.406	13M4W7D
	15	PI/2 BPSK / QPSK	2577.5-2612.5	18.4	0.0684	17.859	17M9G7D
		16QAM / 64QAM / 256QAM		18.4	0.0684	17.856	17M9W7D
n41	10	PI/2 BPSK / QPSK	2580-2610	23.6	0.2291	8.599	8M60G7D
		16QAM / 64QAM / 256QAM		23.6	0.2291	8.586	8M59W7D
	15	PI/2 BPSK / QPSK	2501.01-2685	23.6	0.2291	12.891	12M9G7D
		16QAM / 64QAM / 256QAM		23.6	0.2291	12.875	12M9W7D
	20	PI/2 BPSK / QPSK	2503.5-2682.48	23.6	0.2291	17.872	17M9G7D
		16QAM / 64QAM / 256QAM		23.6	0.2291	17.843	17M8W7D
n41	30	PI/2 BPSK / QPSK	2506.02-2679.99	24.2	0.2630	26.853	26M9G7D
		16QAM / 64QAM / 256QAM		24.2	0.2630	26.814	26M8W7D
	40	PI/2 BPSK / QPSK	2511.00-2674.98	24.2	0.2630	35.776	35M8G7D
		16QAM / 64QAM / 256QAM		24.2	0.2630	35.716	35M7W7D
	50	PI/2 BPSK / QPSK	2516.01-2670.00	24.2	0.2630	45.741	45M7G7D
		16QAM / 64QAM / 256QAM		24.2	0.2630	45.686	45M7W7D

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Summary of Results 2:

5G NR	BW	Modulation	Frequency Range	ERP/EIRP		99% BW	Emission Designator
	(MHz)			(dBm)	(W)		
	60	PI/2 BPSK / QPSK	2526.00-2659.98	24.2	0.2630	57.941	57M9G7D
		16QAM / 64QAM / 256QAM		24.2	0.2630	57.844	57M8W7D
	80	PI/2 BPSK / QPSK	2536.02-2649.99	24.2	0.2630	77.317	77M3G7D
		16QAM / 64QAM / 256QAM		24.2	0.2630	77.029	77M0W7D
	90	PI/2 BPSK / QPSK	2541.00-2644.98	24.2	0.2630	86.881	86M9G7D
		16QAM / 64QAM / 256QAM		24.2	0.2630	86.602	86M6W7D
	100	PI/2 BPSK / QPSK	2546.01-2640.00	24.2	0.2630	96.439	96M4G7D
		16QAM / 64QAM / 256QAM		24.2	0.2630	96.239	96M2W7D
	5	PI/2 BPSK / QPSK	1712.5-1777.5	26.0	0.3981	4.459	4M46G7D
		16QAM / 64QAM / 256QAM		26.0	0.3981	4.477	4M48W7D
n66	10	PI/2 BPSK / QPSK	1715-1775	26.0	0.3981	8.943	8M94G7D
		16QAM / 64QAM / 256QAM		26.0	0.3981	8.926	8M93W7D
	15	PI/2 BPSK / QPSK	1717.5-1772.5	26.0	0.3981	13.434	13M4G7D
		16QAM / 64QAM / 256QAM		26.0	0.3981	13.415	13M4W7D
	20	PI/2 BPSK / QPSK	1720-1770	26.0	0.3981	17.911	17M9G7D
		16QAM / 64QAM / 256QAM		26.0	0.3981	17.881	17M9W7D
	25	PI/2 BPSK / QPSK	1722.5-1767.5	26.0	0.3981	22.899	22M9G7D
		16QAM / 64QAM / 256QAM		26.0	0.3981	22.902	22M9W7D
	30	PI/2 BPSK / QPSK	1725-1765	26.0	0.3981	28.631	28M6G7D
		16QAM / 64QAM / 256QAM		26.0	0.3981	28.606	28M6W7D
	40	PI/2 BPSK / QPSK	1730-1760	26.0	0.3981	38.558	38M6G7D
		16QAM / 64QAM / 256QAM		26.0	0.3981	38.467	38M5W7D
n71	5	PI/2 BPSK / QPSK	665.5-695.5	20.7	0.1161	4.496	4M50G7D
		16QAM / 64QAM / 256QAM		20.7	0.1161	4.481	4M48W7D
	10	PI/2 BPSK / QPSK	668-693	20.7	0.1161	8.954	8M95G7D
		16QAM / 64QAM / 256QAM		20.7	0.1161	8.940	8M94W7D
	15	PI/2 BPSK / QPSK	670.5-690.5	20.7	0.1161	13.427	13M4G7D
		16QAM / 64QAM / 256QAM		20.7	0.1161	13.413	13M4W7D
	20	PI/2 BPSK / QPSK	673-688	20.7	0.1161	17.877	17M9G7D
		16QAM / 64QAM / 256QAM		20.7	0.1161	17.862	17M9W7D

Summary of Results 3:

Bands	BW	Modulation	Frequency Range	Conducted Tune up Power		99% BW	Emission Designator
	(MHz)			(dBm)	(W)		
LTE Band 26 (Part 90S)	1.4	QPSK	814.7-823.3	25.0	0.3162	1.095	1M10G7D
		16QAM/64QAM/256QAM		25.0	0.3162	1.097	1M10W7D
	3	QPSK	815.5-822.5	25.0	0.3162	2.697	2M70G7D
		16QAM/64QAM/256QAM		25.0	0.3162	2.692	2M69W7D
	5	QPSK	816.5-821.5	25.0	0.3162	4.502	4M50G7D
		16QAM/64QAM/256QAM		25.0	0.3162	4.512	4M51W7D
	10	QPSK	819	25.0	0.3162	8.992	8M99G7D
		16QAM/64QAM/256QAM		25.0	0.3162	8.982	8M98W7D
	15	QPSK	821.5	25.0	0.3162	13.425	13M4G7D
		16QAM/64QAM/256QAM		25.0	0.3162	13.423	13M4W7D
5G NR n26 (Part 90S)	5	PI/2 BPSK / QPSK	816.5-821.5	24.5	0.2818	4.490	4M49G7D
		16QAM / 64QAM / 256QAM		24.5	0.2818	4.484	4M48W7D
	10	PI/2 BPSK / QPSK	819	24.5	0.2818	8.949	8M95G7D
		16QAM / 64QAM / 256QAM		24.5	0.2818	8.926	8M93W7D

1.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
Dummy battery	N/A	N/A	S202605218680-PJA03	Applicant

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.3 Meter	Applicant

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1.5 TEST LOCATION

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1.6 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.10 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted Output Power	±0.7 dB
2	99%&26dB Bandwidth	±1.86 %
3	Emission Mask	±2.7 dBm
4	Spurious emissions at antenna terminals	±2.7 dBm
5	Field strength of spurious radiation	30 MHz-1 GHz: ±4.9 dB 1 GHz-18 GHz: ±4.8 dB 18 GHz-40 GHz: ±5.1 dB
6	Frequency stability	±6.5 x 10 ⁻⁸
7	Humidity	±3.9 %
8	Temperature	±0.62 °C
9	DC Voltages	±0.68 %

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2. TEST SUMMARY

FCC 47 CFR Part 22 Test Cases (LTE Band 5/26 and 5G NR n5/26)			
Test Item	Test Requirement	Test Method	Result
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 22.913(a)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 22.917(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 22.355	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 24 Test Cases (LTE Band 2/25 and 5G NR n2/25)			
Test Item	Test Requirement	Test Method	Result
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 24.232(c)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 24.232(c)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 24.232(d)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) & FCC 47 CFR Part 24.238(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 24.238(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 24.238(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 24.238(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 24.235	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 4/66 and 5G NR n66)			
Test Item	Test Requirement	Test Method	Result
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) & FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(h)(1)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

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FCC 47 CFR Part 27 Test Cases (LTE Band 7/38/41 and 5G NR n7/38/41)			
Test Item	Test Requirement	Test Method	Result
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(h)(2)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(h)(2)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(m)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(m)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(m)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 12/17/71 and 5G NR n12/71)			
Test Item	Test Requirement	Test Method	Result
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(c)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(c)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 13)			
Test Item	Test Requirement	Test Method	Result
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(b)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(b)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

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FCC 47 CFR Part 90S Test Cases (LTE Band 26 and 5G NR n26)			
Test Item	Test Requirement	Test Method	Result
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046 & FCC 47 CFR Part 90.635	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 90.635	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	N/A	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Emission Mask	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 90.691	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 90.691	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 90.691	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 90.213	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 30)			
Test Item	Test Requirement	Test Method	Result
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(a)(3)	KDB 412172 D01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(a)(3)	ANSI C63.26-2015, Clause 5.2	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(a)(B)	ANSI C63.26-2015, Clause 5.2.3.4	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) & FCC 47 CFR Part 27.50(a)	ANSI C63.26-2015, Clause 5.4	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(a)(4)	ANSI C63.26-2015, Clause 5.7	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(a) (4)	ANSI C63.26-2015, Clause 5.7	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(a) (4)	ANSI C63.26-2015, Clause 5.5	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015, Clause 5.6	PASS

Disclaimer and Explanations:

The declared of product specification and data (e.g. antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3 m SAC	ETS-Lindgren	3 m	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Loop Antenna	ETS-Lindgren	6502	00202525	26-Jan-2026	25-Jan-2027
☒	Broadband Antenna	ETS-Lindgren	3142E	00201566	26-Oct-2025	25-Oct-2026
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	26-Oct-2025	25-Oct-2026
☒	Double-Ridged Waveguide Horn Antenna(Pre-amplifier)	ETS-Lindgren	3117-PA	00201541	21-Mar-2026	20-Mar-2027
☒	Pre-amplifier	ETS-Lindgren	00118385	00201874	21-Mar-2026	20-Mar-2027
☒	Double-Ridged Waveguide Horn Antenna(Pre-amplifier)	ETS-Lindgren	3116C-PA	00202652	30-Oct-2025	29-Oct-2026
☒	Pre-amplifier	ETS-Lindgren	00118384	00202652	24-Oct-2025	23-Oct-2026
☒	Receiver	ROHDE & SCHWARZ	ESIB26	100114	24-Oct-2025	23-Oct-2026
☒	Spectrum analyzer	ROHDE & SCHWARZ	FSV40-N	101653	20-Mar-2026	19-Mar-2027
☒	Pre-amplifier	HP	8447F	2805A02960	24-Oct-2025	23-Oct-2026
☒	Multi device Controller	ETS-Lindgren	7006-001	160105.00	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

RF Conducted Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	120932	20-Mar-2026	19-Mar-2027
☒	Wideband Radio Communication Tester	R&S	CMW500	119583	20-Mar-2026	19-Mar-2027
☒	EXA Spectrum Analyzer	KEYSIGHT	N9020A	MY51286807	24-Oct-2025	23-Oct-2026
☒	EXA Signal Analyzer	KEYSIGHT	N9010B	MY62060155	20-Mar-2026	19-Mar-2027
☒	UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY59020226	20-Mar-2026	19-Mar-2027
☒	Shielding Room	SAEMC	4(L)*3(W)*3(H)	N/A	25-Oct-2024	24-Oct-2027
☒	Temp Humidity chamber	Votisch	VT4002	58566133290020	20-Mar-2026	19-Mar-2027
☒	Automatic control switch	Tonscend	JS0806-1	24E80610780	N/A	N/A
☒	Notch filter control unit	Tonscend	JS0806-F	24G806F0807	N/A	N/A
☒	DC Source	Agilent	66319B	MY43000795	24-Oct-2025	23-Oct-2026
☒	Test Software	Tonscend	TS1120-5	Software Version: 2.4.1 (5g)		
☒	Test Software	Tonscend	JS1120-1	Software Version: 3.1.46(234G)		

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4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

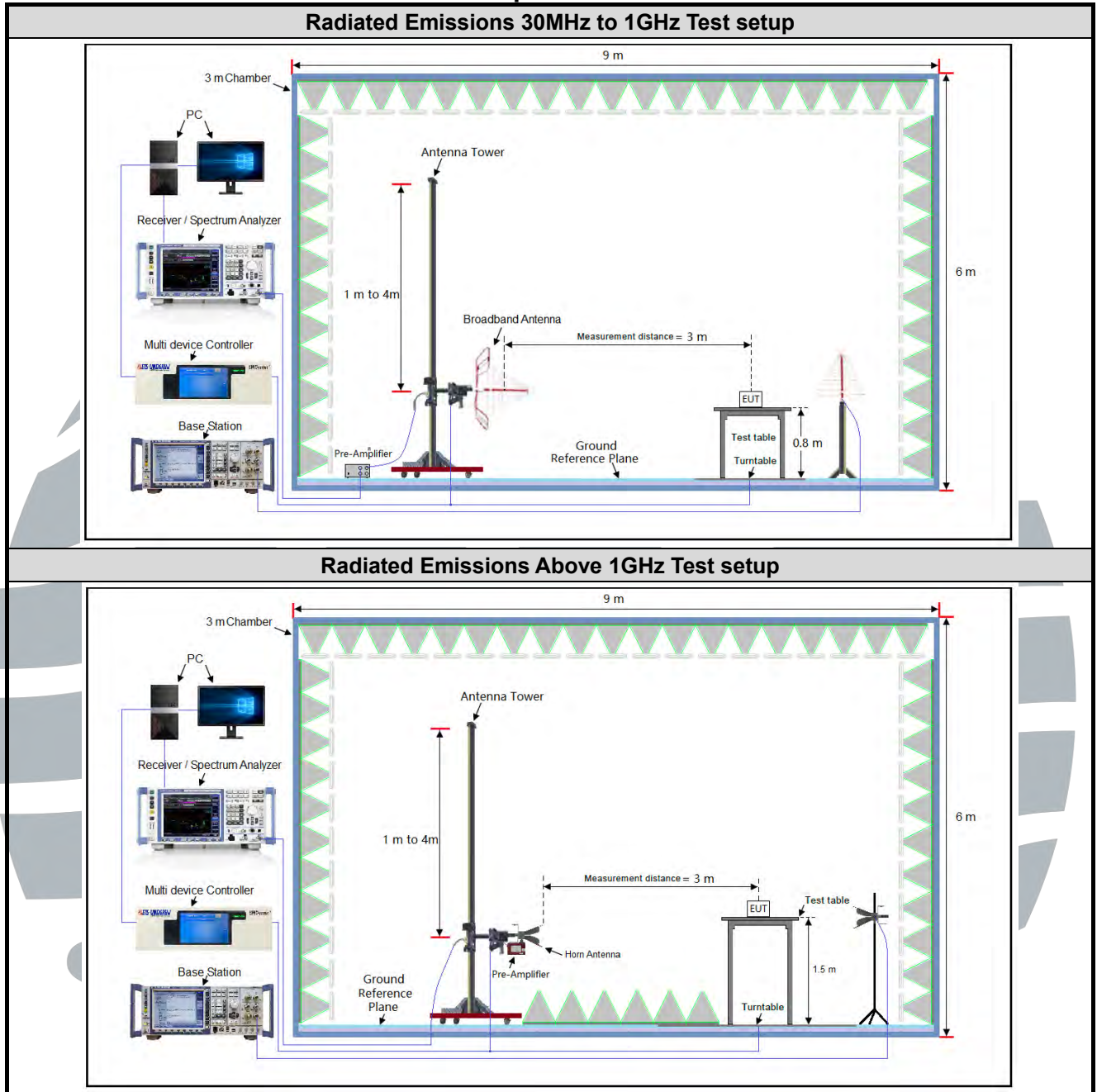
Test Environment	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
TN/VN	+15 to +35	3.87	20 to 75
TL/VL	-30	3.5	20 to 75
TH/VL	+50	3.5	20 to 75
TL/VH	-30	4.45	20 to 75
TH/VH	+50	4.45	20 to 75

Remark:

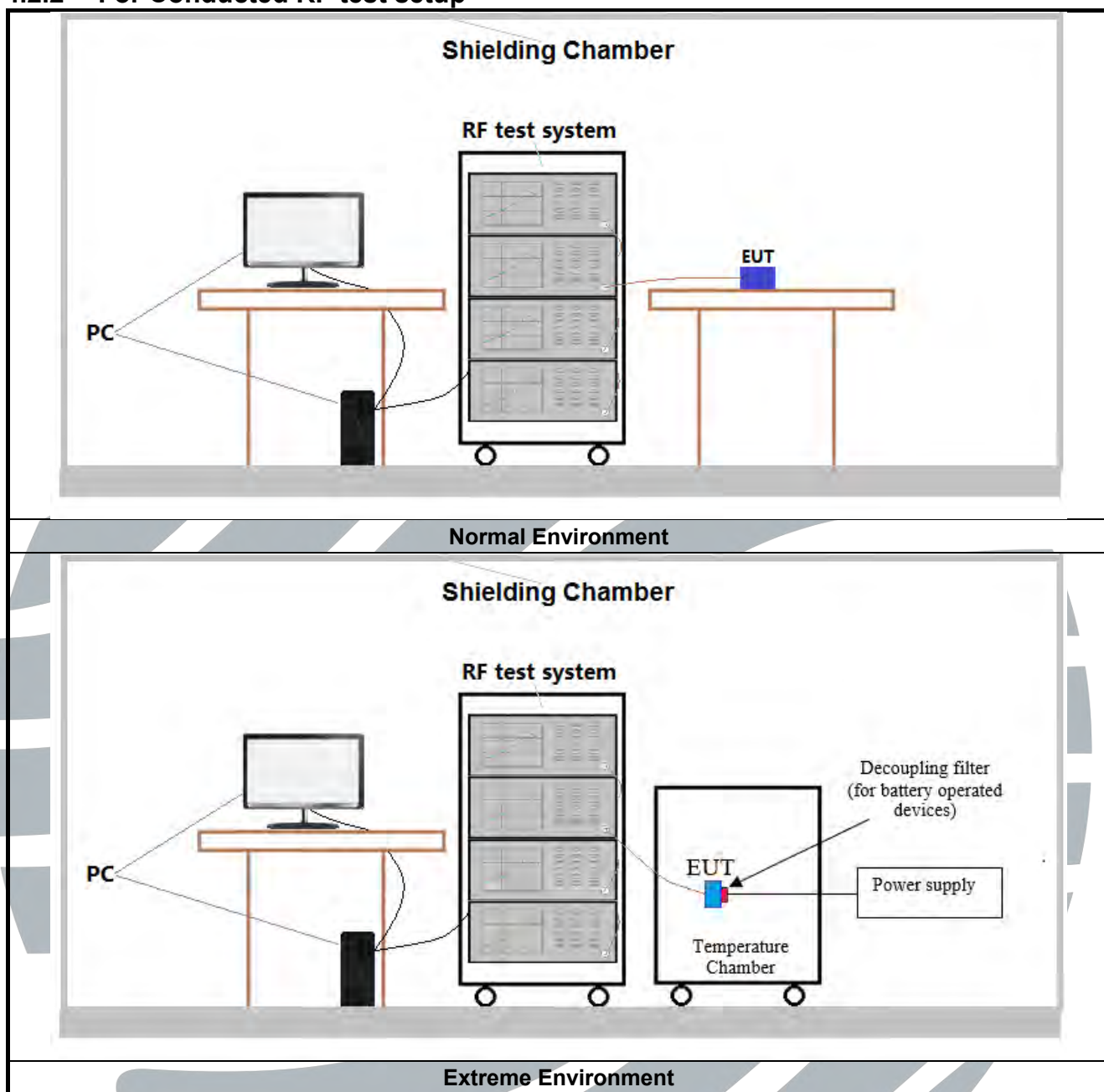
- 1) The EUT just work in such extreme temperature of -30 °C to +50 °C and the extreme voltage of 3.5 V to 4.45 V, so here the EUT is tested in the temperature of -30 °C to +50 °C and the voltage of 3.5 V to 4.45 V.
- 2) VN: Normal Voltage; TN: Normal Temperature;
TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;
VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

4.2 TEST SETUP

4.2.1 For Radiated Emissions test setup



4.2.2 For Conducted RF test setup



4.3 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.87V battery. Only the worst case data were recorded in this test report.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X/Y/Z axis, and antenna ports.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.4 PRE-SCAN

Pre-scan all bandwidth, Configuration and Mode, find worse case mode are chosen to the report, the LTE and 5G NR worse case mode applicability and tested channel detail as below:

Item	Worst case Configuration and Mode
EIRP	The maximum Tune-up was adopted for the calculation.
Conducted output power	All bandwidth, All modulation, All RB configuration and Low/middle/high channel
99%&26dB Bandwidth	All bandwidth, LTE QPSK/16QAM & 5G NR DFT-s-OFDM_QPSK/16QAM modulation, Full RB configuration and Low/middle/high channel
peak-to-average ratio	Max. bandwidth, LTE All modulation & 5G NR DFT-s-OFDM_QPSK/16QAM modulation, Full RB configuration and Low/middle/high channel
Band Edge at antenna terminals	All bandwidth, LTE QPSK & 5G NR DFT-s-OFDM_QPSK modulation, Full & 1 RB configuration and Low/ high channel
Spurious emissions at antenna terminals	For LTE and 5G NR, Conducted spurious emission tests were conducted on wider bandwidth with inner LTE QPSK_1RB & 5G NR DFT-s-OFDM_QPSK_1RB and since this is the worst bandwidth and the highest output power.
Field strength of spurious radiation	For LTE and 5G NR, Conducted spurious emission tests were conducted on wider bandwidth with inner LTE QPSK_1RB & 5G NR DFT-s-OFDM_QPSK_1RB and since this is the worst bandwidth and the highest output power.
Frequency stability	Max. bandwidth, LTE QPSK & 5G NR_CP_QPSK modulation, Full RB configuration and middle channel

Note:

- Since some LTE and 5G NR frequency bands have the same bandwidth, and the power of frequency bands with a larger frequency range is equal to or greater than the subset, simplified tests were conducted for the following frequency bands.
 - LTE Band 2 and 5G NR n2 (1850 - 1910 MHz) are covered by LTE Band 25 and 5G NR n25 (1850 - 1915 MHz).
 - LTE Band 4 and 5G NR n4 (1710 - 1755 MHz) are covered by LTE Band 66 and 5G NR n66 (1710 - 1780 MHz).
 - LTE Band 5 and 5G NR n5 (824 - 849 MHz) are covered by LTE Band 26 and 5G NR n26 (824 - 849 MHz).
 - LTE Band 17 (704 - 716 MHz) are covered by LTE Band 12 (699 - 716 MHz).
 - LTE Band 38 and 5G NR n38 (2570 - 2620 MHz) are covered by LTE Band 41 and 5G NR n41 (2496 - 2690 MHz).
- All SA and UL CA tests are completed at the antenna port of maximum power except for power and Field strength of spurious radiation.
- The EUT supports SA and NSA mode, according to the maximum power between SA and NSA mode, NSA covered SA mode.
- LTE Bands 38/40/41 only use Antenna 0 in ENDC mode and only Antenna 4 in SA mode.
- The EN-DC combinations declared by the manufacturer are as follows:

EN-DC Combinations & Antenna								
EN-DC Combinations	LTE Ant.	NR Ant.	EN-DC Combinations	LTE Ant.	NR Ant.	EN-DC Combinations	LTE Ant.	NR Ant.
DC 2A n5A	4	0	DC 5A n78A	0	3	DC 30A n77A	0	3
DC 2A n7A	4	0	DC 26A n78A	0	3	DC 41A n77A	0	3
DC 2A n12A	4	0	DC 7A n2A	4	1	DC 38A n78A	0	3
DC 2A n38A	1	4	DC 7A n5A	4	0	DC 41A n78A	0	3
DC 2A n41A	1	4	DC 7A n25A	4	1	DC 48A n2A	3	1
DC 25A n41A	1	4	DC 7A n66A	4	1	DC 48A n5A	3	0
DC 2A n66A	4	1	DC 7A n71A	4	0	DC 48A n66A	3	1
DC 2A n71A	4	0	DC 7A n77A	0	3	DC 48A n71A	3	0
DC 2A n77A	1	3	DC 7A n78A	0	3	DC 66A n12A	4	0
DC 25A n77A	1	3	DC 12A n2A	0	4	DC 66A n25A	4	1
DC 2A n78A	1	3	DC 12A n7A	0	4	DC 66A n2A	4	1
DC 25A n78A	1	3	DC 12A n25A	0	4	DC 66A n38A	1	4
DC 4A n5A	4	0	DC 12A n41A	0	4	DC 66A n41A	1	4
DC 4A n7A	4	0	DC 12A n66A	0	4	DC 66A n5A	4	0
DC 4A n38A	1	4	DC 12A n77A	0	3	DC 66A n71A	4	0
DC 4A n41A	1	4	DC 12A n78A	0	3	DC 66A n77A	1	3
DC 4A n78A	1	3	DC 13A n2A	0	4	DC 66A n78A	1	3
DC 5A n2A	0	4	DC 13A n66A	0	4	DC 66A n7A	4	0
DC 26A n25A	0	4	DC 13A n77A	0	3	DC 71A n2A	0	4
DC 5A n7A	0	4	DC 13A n78A	0	3	DC 71A n41A	0	4
DC 5A n66A	0	4	DC 26A n41A	0	4	DC 71A n66A	0	4
DC 5A n77A	0	3	DC 30A n2A	0	4	DC 71A n78A	0	3
DC 26A n77A	0	3	DC 30A n66A	0	4			

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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 22	Public Mobile Services
3	FCC 47 CFR Part 27	Miscellaneous Wireless Communications Services
4	FCC 47 CFR Part 24	Personal Communications Services
5	FCC 47 CFR Part 90	Private Land Mobile Radio Services
6	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
7	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03r01
8	KDB 412172 D01 Determining ERP and EIRP v01r01	Guidelines for determining the effective radiated power (ERP) and isotropically radiated power (EIRP) of an RF transmitting system

5.2 CONDUCTED OUTPUT POWER

Test Requirement: FCC 47 CFR Part 2.1046(a)
LTE Band 2/25 and 5G NR n2/25: FCC 47 CFR Part 24.232(c)
LTE Band 4/66 and 5G NR n66: FCC 47 CFR Part 27.50(d)(4)
LTE Band 5/26 and 5G NR n5/26: FCC 47 CFR Part 22.913(a)
LTE Band 7/38/41 and 5G NR n7/38/41: FCC 47 CFR Part 27.50(h)(2)
LTE Band 12/17/71 and 5G NR n12/71: FCC 47 CFR Part 27.50(c)(10)
LTE Band 13 and 5G NR n13: FCC 47 CFR Part 27.50(b)(10)
LTE Band 26 and 5G NR n26: FCC 47 CFR Part 90.635
LTE Band 30: FCC 47 CFR Part 27.50(a)(3)
Test Method: KDB 971168 D01v03r01 & ANSI C63.26-2015

Limit:

FCC 47 CFR Part 22.913(a):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c):

Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4):

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

FCC 47 CFR Part 27.50(c)(10):

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

FCC 47 CFR Part 27.50(h)(2):

Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

FCC 47 CFR Part 27.50(b)(10):

Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

FCC 47 CFR Part 90.635:

(a) The effective radiated power and antenna height for base stations may not exceed 1 kilowatt (30 dBw) and 304 m. (1,000 ft.) above average terrain (AAT), respectively, or the equivalent thereof as determined from the Table. These are maximum values, and applicants will be required to justify power levels and antenna heights

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requested.

(b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

Table—Equivalent Power and Antenna Heights for Base Stations in the 851–869 MHz and 935–940 MHz Bands Which Have a Requirement for a 32 km (20 mi) Service Area Radius

Antenna height (ATT) meters (feet)	Effective radiated power (watts) ^{1 2 4}
Above 1,372 (4,500)	65
Above 1,220 (4,000) to 1,372 (4,500)	70
Above 1,067 (3,500) to 1,220 (4,000)	75
Above 915 (3,000) to 1,067 (3,500)	100
Above 763 (2,500) to 915 (3,000)	140
Above 610 (2,000) to 763 (2,500)	200
Above 458 (1,500) to 610 (2,000)	350
Above 305 (1,000) to 458 (1,500)	600
Up to 305 (1,000)	³ 1,000

1. Power is given in terms of effective radiated power (ERP).
2. Applicants in the Los Angeles, CA, area who demonstrate a need to serve both the downtown and fringe areas will be permitted to utilize an ERP of 1 kw at the following mountaintop sites: Santiago Park, Sierra Peak, Mount Lukens, and Mount Wilson.
3. Stations with antennas below 305 m (1,000 ft) (AAT) will be restricted to a maximum power of 1 kw (ERP).
4. Licensees in San Diego, CA, will be permitted to utilize an ERP of 500 watts at the following mountaintop sites: Palomar, Otay, Woodson and Miguel.

FCC 47 CFR Part 27.50(a)(3):

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

Test Procedure:

The EUT was set up for the maximum power with CMW500, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

5.2.1 LTE Band 2 and 5G NR n2

Antenna 1

			Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	18607	18900	19193	18607	18900	19193	18607	18900	19193	18607	18900	19193
	(MHz)		1850.7 MHz	1880 MHz	1909.3 MHz	1850.7 MHz	1880 MHz	1909.3 MHz	1850.7 MHz	1880 MHz	1909.3 MHz	1850.7 MHz	1880 MHz	1909.3 MHz
2	1.4	1RB#0	23.80	24.17	24.25	22.57	23.41	22.97	22.01	23.01	22.05	18.88	19.79	19.43
		1RB#2	23.74	24.12	24.29	22.82	23.54	23.32	20.65	22.90	22.23	18.86	19.81	19.69
		1RB#5	23.82	24.15	24.24	22.61	23.31	23.05	20.65	21.60	21.24	18.88	19.76	19.49
		3RB#0	23.68	23.93	24.14	22.50	23.33	22.94	20.65	21.61	21.25	18.79	19.73	19.19
		3RB#1	23.61	24.08	24.12	22.51	23.44	23.03	21.85	22.52	22.12	18.84	19.75	19.22
		3RB#3	23.69	24.12	24.18	22.45	23.31	22.97	20.65	21.57	21.23	18.78	19.73	19.23
		6RB#0	22.66	23.44	23.11	21.51	22.51	21.95	20.68	21.60	21.26	18.79	19.76	19.43
Band	Bandwidth	RB	18615	18900	19185	18615	18900	19185	18615	18900	19185	18615	18900	19185
	(MHz)		1851.5 MHz	1880 MHz	1908.5 MHz	1851.5 MHz	1880 MHz	1908.5 MHz	1851.5 MHz	1880 MHz	1908.5 MHz	1851.5 MHz	1880 MHz	1908.5 MHz
2	3	1RB#0	23.82	24.21	24.20	22.69	23.47	22.96	21.70	22.52	22.56	18.97	19.93	19.14
		1RB#8	23.79	24.13	24.11	22.64	23.71	23.10	20.69	22.64	22.49	18.88	20.02	19.11
		1RB#14	23.82	24.17	24.26	22.78	23.37	23.00	20.75	21.69	21.15	19.03	19.84	19.19
		8RB#0	22.72	23.58	23.21	21.71	22.56	22.16	20.76	21.68	21.17	18.89	19.81	19.57
		8RB#4	22.72	23.52	23.17	21.70	22.48	22.05	20.83	21.58	21.20	18.97	19.80	19.44
		8RB#7	22.78	23.56	23.20	21.72	22.50	22.18	20.69	21.66	21.17	18.96	19.76	19.51
		15RB#0	22.72	23.47	23.16	21.72	22.43	22.08	20.72	21.70	21.17	18.94	19.82	19.45
Band	Bandwidth	RB	18625	18900	19175	18625	18900	19175	18625	18900	19175	18625	18900	19175
	(MHz)		1852.5 MHz	1880 MHz	1907.5 MHz	1852.5 MHz	1880 MHz	1907.5 MHz	1852.5 MHz	1880 MHz	1907.5 MHz	1852.5 MHz	1880 MHz	1907.5 MHz
2	5	1RB#0	23.92	24.18	24.25	22.77	23.79	23.17	21.74	23.38	22.44	19.25	20.12	19.56
		1RB#12	23.82	24.07	24.22	22.79	23.77	23.21	20.99	23.21	22.43	19.34	20.18	19.65
		1RB#24	24.09	24.19	24.16	22.95	23.65	23.19	21.00	21.65	21.38	19.43	19.99	19.57
		12RB#0	22.79	23.58	23.23	21.74	22.70	22.24	20.96	21.67	21.39	18.97	19.92	19.49
		12RB#6	22.80	23.61	23.18	21.78	22.64	22.16	20.96	21.77	21.31	19.02	19.88	19.42
		12RB#13	22.82	23.54	23.21	21.84	22.61	22.23	20.98	21.66	21.37	19.04	19.87	19.50
		25RB#0	22.83	23.44	23.27	21.83	22.58	22.27	20.99	21.66	21.39	19.04	19.90	19.52
Band	Bandwidth	RB	18650	18900	19150	18650	18900	19150	18650	18900	19150	18650	18900	19150
	(MHz)		1855 MHz	1880 MHz	1905 MHz	1855 MHz	1880 MHz	1905 MHz	1855 MHz	1880 MHz	1905 MHz	1855 MHz	1880 MHz	1905 MHz
2	10	1RB#0	23.87	24.23	24.11	22.83	23.63	22.92	21.74	22.71	22.53	19.04	20.02	19.15
		1RB#24	23.95	24.16	24.19	22.83	23.77	23.12	21.00	22.72	22.60	18.93	20.04	19.05
		1RB#49	24.24	24.20	24.31	23.33	23.39	23.08	21.02	21.70	21.29	19.52	19.84	19.31
		25RB#0	22.84	23.67	23.17	21.81	22.70	22.18	21.01	21.73	21.32	19.03	19.93	19.43
		25RB#12	22.91	23.54	23.16	21.88	22.61	22.14	20.95	21.72	21.26	19.07	19.85	19.46
		25RB#25	23.09	23.55	23.24	22.02	22.55	22.22	21.03	21.74	21.30	19.26	19.86	19.50
		50RB#0	22.95	23.53	23.20	21.92	22.62	22.20	21.00	21.71	21.31	19.16	19.89	19.42
Band	Bandwidth	RB	18675	18900	19125	18675	18900	19125	18675	18900	19125	18675	18900	19125
	(MHz)		1857.5 MHz	1880 MHz	1902.5 MHz	1857.5 MHz	1880 MHz	1902.5 MHz	1857.5 MHz	1880 MHz	1902.5 MHz	1857.5 MHz	1880 MHz	1902.5 MHz
2	15	1RB#0	23.82	24.24	24.19	22.79	23.86	23.03	21.75	23.07	22.66	19.06	20.10	19.20
		1RB#38	24.23	24.18	24.18	23.04	23.70	23.14	21.22	22.95	22.56	19.20	20.16	19.07
		1RB#74	24.22	24.20	24.25	23.61	23.51	22.99	21.24	21.79	21.34	19.83	19.78	19.28
		38RB#0	23.14	23.62	23.18	23.12	23.61	23.18	21.23	21.77	21.34	21.23	21.77	21.34
		38RB#18	23.06	23.59	23.12	22.02	22.63	22.12	21.16	21.76	21.26	19.28	19.87	19.40
		38RB#37	23.11	23.64	23.18	23.13	23.62	23.17	21.16	21.70	21.27	21.16	21.69	21.30
		75RB#0	23.12	23.58	23.18	22.07	22.64	22.18	21.17	21.70	21.28	19.33	19.92	19.45
Band	Bandwidth	RB	18700	18900	19100	18700	18900	19100	18700	18900	19100	18700	18900	19100
	(MHz)		1860 MHz	1880 MHz	1900 MHz	1860 MHz	1880 MHz	1900 MHz	1860 MHz	1880 MHz	1900 MHz	1860 MHz	1880 MHz	1900 MHz
2	20MHz	1RB#0	23.93	24.26	24.29	22.77	24.09	23.19	22.08	23.10	22.72	19.07	20.11	19.90
		1RB#49	24.28	24.20	24.14	23.38	23.87	23.02	22.34	22.94	22.54	19.47	20.07	19.71
		1RB#99	24.32	24.24	24.24	23.77	23.61	23.22	21.40	21.79	21.43	20.02	19.73	19.84
		50RB#0	23.06	23.80	23.26	22.04	22.79	22.31	21.41	21.78	21.40	19.21	20.01	19.50
		50RB#25	23.33	23.46	23.19	22.31	22.67	22.17	21.42	21.83	21.34	19.54	19.91	19.42
		50RB#50	23.60	23.47	23.21	22.56	22.52	22.23	21.40	21.80	21.36	19.80	19.79	19.43
		100RB#0	23.33	23.45	23.22	22.31	22.66	22.23	21.42	21.80	21.41	19.49	19.94	19.49

Antenna 4

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	18607	18900	19193	18607	18900	19193	18607	18900	19193	18607	18900	19193
	(MHz)		1850.7 MHz	1880 MHz	1909.3 MHz	1850.7 MHz	1880 MHz	1909.3 MHz	1850.7 MHz	1880 MHz	1909.3 MHz	1850.7 MHz	1880 MHz	1909.3 MHz
2	1.4	1RB#0	23.90	23.99	23.85	22.64	22.77	22.78	22.10	21.80	22.14	18.91	19.06	18.88
		1RB#2	23.96	23.98	23.99	22.92	22.92	22.88	20.84	21.96	22.12	18.87	19.27	18.92
		1RB#5	23.93	24.02	23.84	22.71	22.73	22.80	20.89	20.98	20.89	18.93	19.11	18.90
		3RB#0	23.79	23.91	23.79	22.63	22.74	22.72	20.92	21.04	20.89	18.83	18.78	18.84
		3RB#1	23.72	23.94	23.81	22.65	22.78	22.78	21.58	21.77	21.85	18.79	18.83	18.76
		3RB#3	23.82	23.90	23.83	22.65	22.67	22.66	20.89	21.00	20.79	18.69	18.84	18.76
2	3	6RB#0	22.78	22.92	22.91	21.59	21.86	21.89	20.91	20.96	20.80	19.00	19.03	18.92
		Bandwidth	18615	18900	19185	18615	18900	19185	18615	18900	19185	18615	18900	19185
		RB	1851.5 MHz	1880 MHz	1908.5 MHz	1851.5 MHz	1880 MHz	1908.5 MHz	1851.5 MHz	1880 MHz	1908.5 MHz	1851.5 MHz	1880 MHz	1908.5 MHz
		1RB#0	23.86	24.08	23.87	22.85	22.88	22.63	21.74	21.80	22.10	18.99	19.09	18.73
		1RB#8	23.86	23.98	23.87	22.72	23.09	22.87	20.87	21.92	22.10	18.87	19.30	18.64
		1RB#14	23.92	24.10	23.93	22.85	22.85	22.69	20.88	21.06	20.88	18.99	19.06	18.69
2	5	8RB#0	22.87	22.98	22.92	21.88	21.98	21.93	20.88	21.08	20.87	18.93	18.95	19.03
		8RB#4	22.84	22.94	22.89	21.80	21.89	21.81	20.98	21.00	20.91	18.95	18.96	18.99
		8RB#7	22.86	22.93	22.95	21.85	22.00	21.96	20.78	21.06	20.87	19.03	18.94	19.09
		15RB#0	22.84	22.95	22.92	21.86	21.85	21.82	20.82	21.07	20.87	18.91	19.00	18.94
		Bandwidth	18625	18900	19175	18625	18900	19175	18625	18900	19175	18625	18900	19175
		RB	1852.5 MHz	1880 MHz	1907.5 MHz	1852.5 MHz	1880 MHz	1907.5 MHz	1852.5 MHz	1880 MHz	1907.5 MHz	1852.5 MHz	1880 MHz	1907.5 MHz
2	10	1RB#0	24.08	24.20	24.04	22.95	23.16	22.89	21.80	22.46	22.06	19.32	19.21	19.13
		1RB#12	23.98	24.16	23.88	22.89	23.20	22.96	21.08	22.49	22.01	19.31	19.47	19.15
		1RB#24	24.10	24.11	24.01	22.92	23.16	22.93	21.08	21.06	21.06	19.27	19.27	19.06
		12RB#0	22.94	23.05	22.99	21.93	22.12	22.00	21.10	21.03	21.07	18.99	19.12	19.05
		12RB#6	22.91	23.03	22.94	21.92	22.07	21.90	21.08	21.17	21.02	18.97	19.06	18.98
		12RB#13	22.93	23.04	23.00	21.91	22.08	21.99	21.09	21.05	21.07	18.99	19.11	19.06
2	15	25RB#0	22.96	23.09	23.02	21.91	22.01	22.01	21.09	21.06	21.06	19.02	19.11	19.04
		Bandwidth	18650	18900	19150	18650	18900	19150	18650	18900	19150	18650	18900	19150
		RB	1855 MHz	1880 MHz	1905 MHz	1855 MHz	1880 MHz	1905 MHz	1855 MHz	1880 MHz	1905 MHz	1855 MHz	1880 MHz	1905 MHz
		1RB#0	24.01	24.15	23.91	23.00	22.95	22.69	21.82	21.91	22.10	19.14	19.15	18.73
		1RB#24	23.96	24.15	23.87	22.88	23.24	22.89	21.05	22.13	22.17	18.92	19.31	18.72
		1RB#49	24.04	24.17	23.99	22.97	22.99	22.83	21.06	21.11	20.99	19.13	19.10	18.80
2	20MHz	25RB#0	22.99	23.15	22.97	21.93	22.11	21.96	21.04	21.11	21.00	19.02	19.12	19.02
		25RB#12	22.98	23.09	22.98	21.94	22.07	21.98	21.03	21.11	20.96	19.04	19.12	19.02
		25RB#25	22.99	23.09	22.99	21.94	22.11	22.02	21.06	21.12	20.99	19.07	19.10	19.04
		50RB#0	22.98	23.12	22.99	21.95	22.11	21.97	21.04	21.12	21.00	19.10	19.13	18.97
		Bandwidth	18675	18900	19125	18675	18900	19125	18675	18900	19125	18675	18900	19125
		RB	1857.5 MHz	1880 MHz	1902.5 MHz	1857.5 MHz	1880 MHz	1902.5 MHz	1857.5 MHz	1880 MHz	1902.5 MHz	1857.5 MHz	1880 MHz	1902.5 MHz
2	15	1RB#0	24.04	24.03	23.94	23.06	23.18	22.75	21.85	22.19	22.19	19.09	19.22	18.70
		1RB#38	24.01	24.12	23.93	22.89	23.16	22.87	21.03	22.20	22.16	18.96	19.36	18.63
		1RB#74	24.08	24.01	24.00	23.00	23.17	22.79	21.05	21.11	20.96	19.10	19.15	18.78
		38RB#0	22.92	23.06	22.89	22.94	23.07	22.88	21.02	21.13	20.99	19.04	19.13	18.97
		38RB#18	22.86	23.05	22.85	21.91	22.03	21.86	21.08	21.07	20.97	19.05	19.07	18.95
		38RB#37	22.92	23.06	22.88	22.94	23.05	22.89	21.06	21.01	20.97	19.06	19.13	18.95
2	20MHz	75RB#0	22.94	23.07	22.88	21.93	22.06	21.93	21.05	21.03	21.00	19.06	19.13	18.95
		Bandwidth	18700	18900	19100	18700	18900	19100	18700	18900	19100	18700	18900	19100
		RB	1860 MHz	1880 MHz	1900 MHz	1860 MHz	1880 MHz	1900 MHz	1860 MHz	1880 MHz	1900 MHz	1860 MHz	1880 MHz	1900 MHz
		1RB#0	24.09	24.12	24.00	23.02	23.32	22.95	22.18	22.23	22.32	19.07	19.18	19.41
		1RB#49	23.96	24.21	23.94	23.11	23.29	22.78	21.03	22.22	22.20	19.19	19.32	19.24
		1RB#99	24.12	24.14	23.97	22.99	23.29	22.92	21.02	21.11	21.02	19.11	19.16	19.37
2	20MHz	50RB#0	22.98	23.15	22.94	21.94	22.16	22.00	21.03	21.13	21.03	19.01	19.15	18.99
		50RB#25	22.98	23.09	22.95	21.94	22.13	21.94	21.08	21.16	21.01	19.09	19.10	18.98
		50RB#50	23.02	23.10	22.94	21.99	22.10	21.99	21.07	21.12	21.04	19.06	19.09	18.97
		100RB#0	22.99	23.13	22.96	21.97	22.10	21.99	21.07	21.13	21.03	19.04	19.11	18.96

Antenna 1

5G NR n2		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz		
Channel				37050 0	37600 0	38150 0	37100 0	37600 0	38100 0	37150 0	37600 0	38050 0	37200 0	37600 0	38000 0
Frequency (MHz)				1852.5	1880	1907.5	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.84	23.73	23.64	23.96	23.63	23.52	23.72	23.70	23.77	24.12	24.08	23.62
	$\pi/2$ BPSK	1	Right	23.87	23.54	23.77	23.76	23.82	23.67	23.82	23.77	23.75	24.07	23.67	23.83
	$\pi/2$ BPSK	Innter_Full	Mid	23.95	23.95	23.52	23.76	23.99	23.57	23.93	23.89	23.56	23.93	24.05	23.77
	QPSK	1	Left	23.99	23.73	23.50	23.89	23.95	23.38	23.83	23.88	23.38	23.94	23.88	23.83
	QPSK	1	Right	23.85	23.66	23.67	23.82	23.62	23.90	23.68	23.66	23.82	23.90	23.82	23.92
	QPSK	Innter_Full	Mid	23.88	23.86	23.78	23.93	24.02	23.78	24.02	24.01	24.00	24.17	24.12	23.91
	16QAM	1	Left	22.83	22.97	22.80	23.13	22.83	22.78	23.00	23.05	22.75	23.07	22.98	22.95
	16QAM	1	Right	23.05	23.05	23.04	23.24	22.92	22.79	23.10	23.02	22.84	23.20	22.97	22.96
	16QAM	Innter_Full	Mid	23.00	22.84	22.71	22.93	22.82	22.66	22.81	22.92	22.61	22.86	22.94	22.86
	64QAM	1	Left	21.51	21.75	21.45	21.46	21.74	21.57	21.23	21.67	21.57	21.55	21.65	21.43
	64QAM	1	Right	21.61	21.54	21.79	21.54	21.75	21.84	21.72	21.40	21.59	21.62	21.57	21.88
	64QAM	Innter_Full	Mid	21.54	21.40	21.34	21.36	21.49	21.28	21.49	21.47	21.16	21.64	21.35	21.29
	256QAM	1	Left	19.44	19.81	19.40	19.52	19.81	19.28	19.42	19.60	19.53	19.77	19.91	19.48
	256QAM	1	Right	19.62	19.62	19.37	19.55	19.62	19.51	19.57	19.57	19.44	19.55	19.69	19.77
	256QAM	Innter_Full	Mid	19.60	19.49	19.20	19.66	19.53	19.16	19.60	19.51	19.13	19.70	19.58	19.28
CP-OFDM	QPSK	1	Left	22.50	22.33	22.18	22.43	22.28	22.27	22.46	22.50	21.98	22.55	22.43	22.32
	QPSK	1	Right	22.60	22.30	22.48	22.67	22.30	22.47	22.77	22.22	22.48	22.80	22.50	22.53
	QPSK	Innter_Full	Mid	22.42	22.16	21.95	22.45	22.45	22.07	22.20	22.45	22.10	22.54	22.61	22.25
	16QAM	1	Left	21.91	22.02	21.42	22.08	21.96	21.52	21.94	21.92	21.35	22.04	21.97	21.45
	16QAM	1	Right	21.94	21.58	21.94	22.01	21.68	21.76	21.79	21.81	21.94	21.87	21.85	21.86
	16QAM	Innter_Full	Mid	21.82	21.81	21.50	21.94	21.91	21.57	22.02	21.92	21.62	22.07	21.94	21.85
	64QAM	1	Left	20.41	20.30	20.70	20.26	20.44	20.72	20.41	20.32	20.60	20.45	20.47	20.65
	64QAM	1	Right	20.41	20.30	20.94	20.43	20.37	20.74	20.36	20.43	20.79	20.58	20.42	21.04
	64QAM	Innter_Full	Mid	20.43	20.48	20.17	20.50	20.43	20.12	20.41	20.38	20.27	20.56	20.56	20.32
	256QAM	1	Left	17.36	17.42	17.44	17.30	17.52	17.31	17.16	17.71	17.33	17.21	17.57	17.53
	256QAM	1	Right	17.71	17.53	17.37	17.65	17.52	17.60	17.65	17.57	17.37	17.80	17.60	17.45
	256QAM	Innter_Full	Mid	17.55	17.38	17.28	17.47	17.52	17.39	17.59	17.48	17.29	17.47	17.73	17.39

Antenna 4

5G NR n2		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz		
Channel				37050 0	37600 0	38150 0	37100 0	37600 0	38100 0	37150 0	37600 0	38050 0	37200 0	37600 0	38000 0
Frequency (MHz)				1852.5	1880	1907.5	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.84	23.73	23.64	23.96	23.63	23.52	23.72	23.70	23.77	24.12	24.08	23.62
	$\pi/2$ BPSK	1	Right	23.87	23.54	23.77	23.76	23.82	23.67	23.82	23.77	23.75	24.07	23.67	23.83
	$\pi/2$ BPSK	Innter_Full	Mid	23.95	23.95	23.52	23.76	23.99	23.57	23.93	23.89	23.56	23.93	24.05	23.77
	QPSK	1	Left	23.99	23.73	23.50	23.89	23.95	23.38	23.83	23.88	23.38	23.94	23.88	23.83
	QPSK	1	Right	23.85	23.66	23.67	23.82	23.62	23.90	23.68	23.66	23.82	23.90	23.82	23.92
	QPSK	Innter_Full	Mid	23.88	23.86	23.78	23.93	24.02	23.78	24.02	24.01	24.00	24.17	24.12	23.91
	16QAM	1	Left	22.83	22.97	22.80	23.13	22.83	22.78	23.00	23.05	22.75	23.07	22.98	22.95
	16QAM	1	Right	23.05	23.05	23.04	23.24	22.92	22.79	23.10	23.02	22.84	23.20	22.97	22.96
	16QAM	Innter_Full	Mid	23.00	22.84	22.71	22.93	22.82	22.66	22.81	22.92	22.61	22.86	22.94	22.86
	64QAM	1	Left	21.51	21.75	21.45	21.46	21.74	21.57	21.23	21.67	21.57	21.55	21.65	21.43
	64QAM	1	Right	21.61	21.54	21.79	21.54	21.75	21.84	21.72	21.40	21.59	21.62	21.57	21.88
	64QAM	Innter_Full	Mid	21.54	21.40	21.34	21.36	21.49	21.28	21.49	21.47	21.16	21.64	21.35	21.29
	256QAM	1	Left	19.44	19.81	19.40	19.52	19.81	19.28	19.42	19.60	19.53	19.77	19.91	19.48
	256QAM	1	Right	19.62	19.62	19.37	19.55	19.62	19.51	19.57	19.57	19.44	19.55	19.69	19.77
	256QAM	Innter_Full	Mid	19.60	19.49	19.20	19.66	19.53	19.16	19.60	19.51	19.13	19.70	19.58	19.28
CP-OFDM	QPSK	1	Left	22.50	22.33	22.18	22.43	22.28	22.27	22.46	22.50	21.98	22.55	22.43	22.32
	QPSK	1	Right	22.60	22.30	22.48	22.67	22.30	22.47	22.77	22.22	22.48	22.80	22.50	22.53
	QPSK	Innter_Full	Mid	22.42	22.16	21.95	22.45	22.45	22.07	22.20	22.45	22.10	22.54	22.61	22.25
	16QAM	1	Left	21.91	22.02	21.42	22.08	21.96	21.52	21.94	21.92	21.35	22.04	21.97	21.45
	16QAM	1	Right	21.94	21.58	21.94	22.01	21.68	21.76	21.79	21.81	21.94	21.87	21.85	21.86
	16QAM	Innter_Full	Mid	21.82	21.81	21.50	21.94	21.91	21.57	22.02	21.92	21.62	22.07	21.94	21.85
	64QAM	1	Left	20.41	20.30	20.70	20.26	20.44	20.72	20.41	20.32	20.60	20.45	20.47	20.65
	64QAM	1	Right	20.41	20.30	20.94	20.43	20.37	20.74	20.36	20.43	20.79	20.58	20.42	21.04
	64QAM	Innter_Full	Mid	20.43	20.48	20.17	20.50	20.43	20.12	20.41	20.38	20.27	20.56	20.56	20.32
	256QAM	1	Left	17.36	17.42	17.44	17.30	17.52	17.31	17.16	17.71	17.33	17.21	17.57	17.53
	256QAM	1	Right	17.71	17.53	17.37	17.65	17.52	17.60	17.65	17.57	17.37	17.80	17.60	17.45
	256QAM	Innter_Full	Mid	17.55	17.38	17.28	17.47	17.52	17.39	17.59	17.48	17.29	17.47	17.73	17.39

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UTTR-RF-FCC4G-V1.1

5.2.2 LTE Band 4

Antenna 1

			Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth (MHz)	RB	19957 1710.7 MHz	20175 1732.5 MHz	20393 1754.3 MHz	19957 1710.7 MHz	20175 1732.5 MHz	20393 1754.3 MHz	19957 1710.7 MHz	20175 1732.5 MHz	20393 1754.3 MHz	19957 1710.7 MHz	20175 1732.5 MHz	20393 1754.3 MHz
4	1.4	1RB#0	23.87	23.64	23.63	22.61	22.54	22.34	22.14	22.03	21.80	18.96	18.88	18.62
		1RB#2	23.79	23.76	23.61	22.91	22.66	22.51	21.98	21.99	22.00	19.28	18.85	19.01
		1RB#5	23.85	23.59	23.60	22.62	22.50	22.29	20.82	20.66	20.63	19.10	18.87	18.91
		3RB#0	23.73	23.58	23.56	22.55	22.43	22.30	20.83	20.65	20.67	18.82	18.79	18.60
		3RB#1	23.70	23.60	23.53	22.59	22.49	22.41	21.69	21.84	21.71	18.84	18.82	18.73
		3RB#3	23.76	23.50	23.54	22.54	22.36	22.29	20.83	20.66	20.57	18.74	18.75	18.72
4	3	6RB#0	22.69	22.63	22.52	21.53	21.56	21.48	20.83	20.67	20.54	19.04	18.80	18.72
		19965	20175	20385	19965	20175	20385	19965	20175	20385	19965	20175	20385	19965
		1RB#0	23.78	23.68	23.66	22.74	22.59	22.34	21.66	21.54	21.82	19.04	18.93	18.63
		1RB#8	23.75	23.66	23.61	22.66	22.74	22.56	21.79	21.71	21.92	18.97	19.14	18.46
		1RB#14	23.83	23.70	23.68	22.73	22.44	22.34	20.77	20.75	20.55	19.06	18.86	18.51
		8RB#0	22.80	22.62	22.61	21.81	21.63	21.58	20.78	20.75	20.58	18.99	18.82	18.95
4	5	8RB#4	22.73	22.61	22.55	21.74	21.57	21.47	20.88	20.64	20.63	19.04	18.85	18.85
		8RB#7	22.75	22.64	22.60	21.72	21.66	21.58	20.77	20.76	20.56	18.99	18.83	18.96
		15RB#0	22.77	22.65	22.60	21.75	21.54	21.48	20.79	20.75	20.54	19.05	18.89	18.82
		19975	20175	20375	19975	20175	20375	19975	20175	20375	19975	20175	20375	19975
		1712.5 MHz	1732.5 MHz	1752.5 MHz	1712.5 MHz	1732.5 MHz	1752.5 MHz	1712.5 MHz	1732.5 MHz	1752.5 MHz	1712.5 MHz	1732.5 MHz	1752.5 MHz	1712.5 MHz
		1RB#0	23.95	23.83	23.70	22.84	22.75	22.57	21.85	22.29	21.86	19.44	19.14	19.02
4	10	1RB#12	23.86	23.69	23.65	22.69	22.85	22.71	21.85	22.34	21.91	19.54	19.30	19.09
		1RB#24	23.90	23.78	23.74	22.80	22.81	22.69	21.01	20.75	20.78	19.42	19.14	18.96
		12RB#0	22.83	22.69	22.66	21.80	21.75	21.66	21.01	20.75	20.81	19.07	18.99	18.94
		12RB#6	22.80	22.69	22.63	21.77	21.76	21.59	20.98	20.83	20.72	19.05	18.94	18.87
		12RB#13	22.77	22.68	22.65	21.75	21.76	21.67	21.02	20.76	20.78	19.04	18.97	18.90
		25RB#0	22.83	22.75	22.69	21.84	21.70	21.69	21.05	20.76	20.78	19.09	18.95	18.91
4	15	20000	20175	20350	20000	20175	20350	20000	20175	20350	20000	20175	20350	20000
		1715 MHz	1732.5 MHz	1750 MHz	1715 MHz	1732.5 MHz	1750 MHz	1715 MHz	1732.5 MHz	1750 MHz	1715 MHz	1732.5 MHz	1750 MHz	1715 MHz
		1RB#0	23.88	23.78	23.73	22.90	22.62	22.51	21.76	21.69	21.93	19.11	18.98	18.64
		1RB#24	23.80	23.78	23.58	22.74	22.84	22.54	21.75	21.75	21.99	18.85	19.11	18.61
		1RB#49	23.89	23.73	23.72	22.83	22.64	22.46	20.92	20.82	20.74	19.06	18.98	18.64
		25RB#0	22.82	22.71	22.68	21.81	21.71	21.65	20.90	20.84	20.73	19.03	18.97	18.97
4	20	25RB#12	22.76	22.69	22.58	21.74	21.69	21.57	20.87	20.78	20.67	19.02	18.95	18.92
		25RB#25	22.78	22.76	22.66	21.73	21.73	21.66	20.91	20.81	20.72	19.01	18.97	18.92
		50RB#0	22.79	22.72	22.63	21.75	21.72	21.64	20.91	20.83	20.72	19.05	18.94	18.86
		20025	20175	20325	20025	20175	20325	20025	20175	20325	20025	20175	20325	20025
		1717.5 MHz	1732.5 MHz	1747.5 MHz	1717.5 MHz	1732.5 MHz	1747.5 MHz	1717.5 MHz	1732.5 MHz	1747.5 MHz	1717.5 MHz	1732.5 MHz	1747.5 MHz	1717.5 MHz
		1RB#0	23.87	23.75	23.75	22.87	22.86	22.53	21.89	22.01	22.07	19.13	19.13	18.70
4	25	1RB#38	23.86	23.84	23.67	22.74	22.79	22.61	21.84	22.05	22.03	18.91	19.23	18.66
		1RB#74	23.79	23.59	23.77	22.80	22.80	22.47	20.97	20.92	20.85	19.05	19.05	18.59
		38RB#0	22.79	22.71	22.68	22.81	22.72	22.70	20.98	20.91	20.87	20.96	20.91	20.83
		38RB#18	22.77	22.68	22.62	21.74	21.72	21.60	20.97	20.81	20.77	19.07	18.95	18.92
		38RB#37	22.80	22.69	22.67	22.80	22.71	22.69	20.95	20.77	20.78	20.94	20.79	20.80
		75RB#0	22.81	22.71	22.69	21.76	21.76	21.71	20.93	20.79	20.80	19.09	19.02	18.94
4	30	20050	20175	20300	20050	20175	20300	20050	20175	20300	20050	20175	20300	20050
		1720 MHz	1732.5 MHz	1745 MHz	1720 MHz	1732.5 MHz	1745 MHz	1720 MHz	1732.5 MHz	1745 MHz	1720 MHz	1732.5 MHz	1745 MHz	1720 MHz
		1RB#0	23.96	23.82	23.70	22.85	23.00	22.59	22.53	22.18	21.66	19.13	19.37	18.98
		1RB#49	23.81	23.81	23.74	22.88	22.93	22.63	22.04	22.19	21.44	19.24	19.29	18.90
		1RB#99	23.91	23.78	23.73	22.77	22.99	22.57	20.98	20.93	20.84	19.10	19.22	18.97
		50RB#0	22.89	22.74	22.72	21.85	21.74	21.74	20.97	20.98	20.82	19.10	19.01	18.99
4	35	50RB#25	22.86	22.78	22.71	21.80	21.80	21.70	20.99	20.96	20.87	19.08	19.04	18.99
		50RB#50	22.84	22.80	22.64	21.82	21.80	21.69	20.99	20.93	20.86	19.07	19.05	18.91
		100RB#0	22.86	22.79	22.69	21.83	21.76	21.68	21.00	20.96	20.85	19.09	19.00	18.97

Antenna 4

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	19957	20175	20393	19957	20175	20393	19957	20175	20393	19957	20175	20393
	(MHz)		1710.7 MHz	1732.5 MHz	1754.3 MHz	1710.7 MHz	1732.5 MHz	1754.3 MHz	1710.7 MHz	1732.5 MHz	1754.3 MHz	1710.7 MHz	1732.5 MHz	1754.3 MHz
4	1.4	1RB#0	23.82	23.74	23.63	22.57	22.51	22.54	21.89	21.90	21.47	18.67	18.63	18.66
		1RB#2	23.80	23.71	23.66	22.87	22.63	22.56	20.58	21.84	21.57	18.58	18.54	18.86
		1RB#5	23.88	23.73	23.59	22.62	22.45	22.45	20.60	20.52	20.60	18.64	18.61	18.70
		3RB#0	23.71	23.65	23.51	22.55	22.41	22.36	20.58	20.57	20.60	18.53	18.50	18.39
		3RB#1	23.71	23.67	23.52	22.60	22.49	22.48	21.76	21.42	21.44	18.56	18.43	18.40
		3RB#3	23.77	23.61	23.44	22.58	22.41	22.32	20.60	20.61	20.41	18.59	18.44	18.47
		6RB#0	22.71	22.63	22.60	21.61	21.68	21.74	20.62	20.60	20.42	18.61	18.59	18.56
Band	Bandwidth	RB	19965	20175	20385	19965	20175	20385	19965	20175	20385	19965	20175	20385
	(MHz)		1711.5 MHz	1732.5 MHz	1753.5 MHz	1711.5 MHz	1732.5 MHz	1753.5 MHz	1711.5 MHz	1732.5 MHz	1753.5 MHz	1711.5 MHz	1732.5 MHz	1753.5 MHz
4	3	1RB#0	23.79	23.79	23.56	22.76	22.61	22.32	21.52	21.44	21.42	18.74	18.67	18.65
		1RB#8	23.81	23.73	23.63	22.59	22.75	22.46	20.60	21.69	21.67	18.46	18.19	18.28
		1RB#14	23.79	23.73	23.61	22.76	22.47	22.30	20.60	20.46	20.47	18.73	18.36	18.40
		8RB#0	22.81	22.69	22.63	21.85	21.72	21.76	20.60	20.50	20.49	18.64	18.74	18.68
		8RB#4	22.75	22.70	22.56	21.79	21.68	21.62	20.72	20.54	20.61	18.67	18.59	18.66
		8RB#7	22.78	22.73	22.61	21.82	21.73	21.80	20.63	20.48	20.48	18.65	18.69	18.75
		15RB#0	22.77	22.67	22.58	21.83	21.67	21.62	20.63	20.46	20.49	18.69	18.59	18.57
Band	Bandwidth	RB	19975	20175	20375	19975	20175	20375	19975	20175	20375	19975	20175	20375
	(MHz)		1712.5 MHz	1732.5 MHz	1752.5 MHz	1712.5 MHz	1732.5 MHz	1752.5 MHz	1712.5 MHz	1732.5 MHz	1752.5 MHz	1712.5 MHz	1732.5 MHz	1752.5 MHz
4	5	1RB#0	23.93	23.78	23.81	22.78	22.87	22.65	21.61	22.20	21.79	19.03	18.92	18.72
		1RB#12	23.86	23.83	23.65	22.74	22.81	22.69	20.82	22.15	21.77	19.16	19.05	18.83
		1RB#24	23.91	23.84	23.73	22.83	22.79	22.58	20.80	20.63	20.73	19.12	18.83	18.78
		12RB#0	22.82	22.73	22.66	21.80	21.86	21.80	20.84	20.63	20.73	18.69	18.71	18.68
		12RB#6	22.83	22.74	22.64	21.82	21.85	21.77	20.83	20.77	20.68	18.73	18.69	18.65
		12RB#13	22.81	22.72	22.64	21.83	21.85	21.83	20.82	20.64	20.73	18.71	18.73	18.72
		25RB#0	22.85	22.78	22.70	21.84	21.75	21.83	20.86	20.63	20.72	18.79	18.67	18.69
Band	Bandwidth	RB	20000	20175	20350	20000	20175	20350	20000	20175	20350	20000	20175	20350
	(MHz)		1715 MHz	1732.5 MHz	1750 MHz	1715 MHz	1732.5 MHz	1750 MHz	1715 MHz	1732.5 MHz	1750 MHz	1715 MHz	1732.5 MHz	1750 MHz
4	10	1RB#0	23.85	23.85	23.73	22.81	22.72	22.41	21.60	21.71	21.95	18.75	18.77	18.44
		1RB#24	23.86	23.75	23.65	22.74	22.93	22.72	20.74	21.73	21.95	18.53	19.01	18.30
		1RB#49	23.85	23.77	23.65	22.82	22.57	22.40	20.75	20.71	20.72	18.89	18.73	18.53
		25RB#0	22.84	22.78	22.70	21.80	21.80	21.78	20.76	20.71	20.70	18.75	18.75	18.76
		25RB#12	22.83	22.73	22.68	21.80	21.81	21.75	20.77	20.71	20.68	18.74	18.73	18.73
		25RB#25	22.87	22.79	22.69	21.84	21.78	21.81	20.74	20.73	20.66	18.80	18.72	18.77
		50RB#0	22.85	22.78	22.70	21.82	21.80	21.76	20.76	20.71	20.69	18.82	18.70	18.66
Band	Bandwidth	RB	20025	20175	20325	20025	20175	20325	20025	20175	20325	20025	20175	20325
	(MHz)		1717.5 MHz	1732.5 MHz	1747.5 MHz	1717.5 MHz	1732.5 MHz	1747.5 MHz	1717.5 MHz	1732.5 MHz	1747.5 MHz	1717.5 MHz	1732.5 MHz	1747.5 MHz
4	15	1RB#0	23.84	23.80	23.71	22.86	22.93	22.45	21.58	21.88	21.82	18.75	18.88	18.44
		1RB#38	23.85	23.89	23.72	22.74	22.75	22.66	20.75	21.86	21.98	18.57	18.97	18.42
		1RB#74	23.84	23.66	23.68	22.80	22.81	22.42	20.73	20.70	20.70	18.83	18.81	18.48
		38RB#0	22.82	22.71	22.66	22.80	22.70	22.67	20.74	20.73	20.72	20.75	20.70	20.73
		38RB#18	22.75	22.64	22.61	21.80	21.74	21.71	20.78	20.67	20.67	18.77	18.66	18.68
		38RB#37	22.82	22.68	22.68	22.81	22.70	22.65	20.76	20.61	20.71	20.79	20.61	20.73
		75RB#0	22.81	22.72	22.65	21.79	21.76	21.76	20.78	20.64	20.69	18.79	18.72	18.70
Band	Bandwidth	RB	20050	20175	20300	20050	20175	20300	20050	20175	20300	20050	20175	20300
	(MHz)		1720 MHz	1732.5 MHz	1745 MHz	1720 MHz	1732.5 MHz	1745 MHz	1720 MHz	1732.5 MHz	1745 MHz	1720 MHz	1732.5 MHz	1745 MHz
4	20	1RB#0	23.91	23.85	23.69	22.75	23.00	22.58	21.92	22.07	21.49	18.80	19.16	18.70
		1RB#49	23.74	23.78	23.73	22.87	22.97	22.57	20.76	22.09	21.27	19.03	19.06	18.65
		1RB#99	23.96	23.74	23.64	22.78	22.96	22.52	20.77	20.78	20.71	18.85	19.06	18.73
		50RB#0	22.86	22.80	22.70	21.80	21.80	21.79	20.75	20.77	20.72	18.75	18.79	18.72
		50RB#25	22.82	22.79	22.70	21.82	21.81	21.79	20.80	20.77	20.75	18.77	18.77	18.73
		50RB#50	22.86	22.78	22.73	21.87	21.78	21.79	20.76	20.77	20.72	18.82	18.75	18.71
		100RB#0	22.88	22.77	22.70	21.82	21.75	21.75	20.80	20.77	20.71	18.76	18.75	18.70

5.2.3 LTE Band 5 and 5G NR n5

Conducted Power(dBm)														
Modulation														
Band	Bandwidth (MHz)	RB	QPSK			16QAM			64QAM			256QAM		
			20407 824.7 MHz	20525 836.5 MHz	20643 848.3 MHz	20407 824.7 MHz	20525 836.5 MHz	20643 848.3 MHz	20407 824.7 MHz	20525 836.5 MHz	20643 848.3 MHz	20407 824.7 MHz	20525 836.5 MHz	20643 848.3 MHz
5	1.4	1RB#0	24.16	24.09	24.04	23.01	23.13	22.85	22.27	22.58	22.63	19.46	19.14	19.21
		1RB#2	24.11	24.15	24.01	23.22	23.19	22.99	21.38	22.64	22.48	19.64	19.08	19.24
		1RB#5	24.14	24.09	24.01	23.02	23.08	22.86	21.38	21.24	21.29	19.42	19.14	19.23
		3RB#0	24.06	24.06	23.95	22.95	22.93	22.79	21.39	21.24	21.32	19.18	19.25	19.25
		3RB#1	23.99	24.03	23.96	22.98	23.03	22.97	22.21	22.42	22.42	19.23	19.23	19.33
		3RB#3	24.07	24.01	23.97	22.98	22.92	22.80	21.38	21.23	21.32	19.22	19.25	19.27
		6RB#0	23.12	23.17	23.07	21.97	22.13	22.04	21.38	21.25	21.29	19.48	19.41	19.27
5	3	20415	20525	20635	20415	20525	20635	20415	20525	20635	20415	20525	20635	
		825.5 MHz	836.5 MHz	847.5 MHz	825.5 MHz	836.5 MHz	847.5 MHz	825.5 MHz	836.5 MHz	847.5 MHz	825.5 MHz	836.5 MHz	847.5 MHz	
		1RB#0	24.17	24.18	23.99	23.16	23.07	22.82	22.32	22.33	22.54	19.54	19.54	19.08
		1RB#8	24.11	24.09	23.98	23.05	23.27	23.00	21.39	22.50	22.60	19.23	19.65	18.97
		1RB#14	24.09	24.16	24.05	23.12	23.00	22.85	21.39	21.48	21.24	19.47	19.47	19.09
		8RB#0	23.19	23.18	23.14	22.21	22.17	22.13	21.41	21.46	21.24	19.48	19.41	19.50
		8RB#4	23.13	23.16	23.08	22.12	22.11	22.00	21.46	21.36	21.30	19.45	19.39	19.36
5	5	8RB#7	23.16	23.13	23.11	22.16	22.15	22.09	21.39	21.47	21.23	19.44	19.37	19.43
		15RB#0	23.15	23.18	23.08	22.20	22.06	21.97	21.40	21.49	21.25	19.49	19.43	19.34
		20425	20525	20625	20425	20525	20625	20425	20525	20625	20425	20525	20625	
		826.5 MHz	836.5 MHz	846.5 MHz	826.5 MHz	836.5 MHz	846.5 MHz	826.5 MHz	836.5 MHz	846.5 MHz	826.5 MHz	836.5 MHz	846.5 MHz	
		1RB#0	24.27	24.19	24.21	23.24	23.35	23.15	22.39	23.00	22.71	19.80	19.72	19.56
		1RB#12	24.15	24.22	24.21	23.13	23.38	23.17	21.63	22.96	22.50	19.94	19.73	19.56
		1RB#24	24.21	24.23	24.26	23.19	23.31	23.12	21.61	21.45	21.47	19.83	19.67	19.48
5	10	12RB#0	23.22	23.25	23.25	22.20	22.32	22.26	21.62	21.46	21.49	19.56	19.56	19.54
		12RB#6	23.24	23.22	23.19	22.21	22.31	22.13	21.64	21.56	21.46	19.51	19.55	19.42
		12RB#13	23.21	23.17	23.11	22.22	22.26	22.12	21.61	21.46	21.47	19.54	19.50	19.43
		25RB#0	23.26	23.25	23.21	22.24	22.20	22.20	21.61	21.47	21.47	19.57	19.48	19.47
		20450	20525	20600	20450	20525	20600	20450	20525	20600	20450	20525	20600	
		829 MHz	836.5 MHz	844 MHz	829 MHz	836.5 MHz	844 MHz	829 MHz	836.5 MHz	844 MHz	829 MHz	836.5 MHz	844 MHz	
		1RB#0	24.23	24.21	24.24	23.28	23.13	23.04	22.37	22.43	22.72	19.58	19.58	19.23
5	10	1RB#24	24.23	24.29	24.15	23.15	23.37	23.15	21.52	22.60	22.73	19.49	19.77	19.12
		1RB#49	24.22	24.20	24.17	23.28	23.14	22.98	21.53	21.53	21.49	19.56	19.58	19.23
		25RB#0	23.24	23.30	23.26	22.20	22.28	22.26	21.54	21.55	21.49	19.56	19.59	19.59
		25RB#12	23.26	23.25	23.23	22.22	22.23	22.21	21.56	21.53	21.50	19.56	19.56	19.56
		25RB#25	23.24	23.26	23.13	22.20	22.23	22.16	21.52	21.52	21.50	19.55	19.56	19.51
		50RB#0	23.24	23.26	23.21	22.23	22.25	22.21	21.55	21.55	21.49	19.58	19.54	19.47

5G NR n5		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz		
Channel				165300	167300	169300	165800	167300	168800	166300	167300	168300	166800	167300	167800
Frequency (MHz)				826.5	836.5	846.5	829	836.5	844	831.5	836.5	841.5	834	836.5	839
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.93	23.99	23.85	23.93	23.92	23.99	23.91	23.86	23.94	23.90	23.89	23.85
	$\pi/2$ BPSK	1	Right	23.87	23.95	23.89	23.92	24.00	23.93	23.96	23.92	23.90	23.94	23.83	23.93
	$\pi/2$ BPSK	Innter_Full	Mid	24.07	24.04	23.94	24.05	24.04	24.05	24.07	24.09	24.08	24.11	24.08	23.62
	QPSK	1	Left	24.13	23.96	23.91	24.06	23.98	24.08	24.00	23.90	24.00	23.99	23.91	23.88
	QPSK	1	Right	24.05	24.05	23.94	24.02	24.00	23.94	24.01	23.95	23.92	23.99	23.87	23.95
	QPSK	Innter_Full	Mid	23.80	24.04	23.96	24.08	24.03	24.03	24.10	24.06	24.12	24.08	24.10	24.14
	16QAM	1	Left	23.23	23.37	23.19	23.44	23.14	23.39	23.05	23.35	23.18	23.32	23.30	23.37
	16QAM	1	Right	23.28	23.22	23.48	23.54	23.22	23.13	23.39	23.07	23.29	23.12	23.14	23.06
	16QAM	Innter_Full	Mid	23.20	23.27	23.15	23.21	23.23	23.24	23.19	23.25	23.23	23.20	23.23	23.27
	64QAM	1	Left	21.62	21.76	21.75	21.69	21.99	21.59	21.77	21.79	21.84	21.80	21.75	21.78
	64QAM	1	Right	21.64	21.73	22.00	21.72	21.78	21.54	21.85	21.65	21.49	21.83	21.81	21.75
	64QAM	Innter_Full	Mid	21.76	21.81	21.66	21.65	21.65	21.76	21.74	21.81	21.71	21.69	21.70	21.74
	256QAM	1	Left	20.05	19.99	19.52	19.44	19.71	19.60	19.67	19.77	19.64	19.55	19.71	19.72
	256QAM	1	Right	19.91	19.92	19.51	19.53	19.78	19.60	19.57	19.71	19.55	19.71	19.76	19.70
	256QAM	Innter_Full	Mid	19.69	19.80	19.61	19.68	19.68	19.65	19.65	19.73	19.68	19.71	19.70	19.69
CP-OFDM	QPSK	1	Left	22.49	22.88	23.07	22.90	22.59	22.60	22.80	22.74	22.94	22.55	22.61	23.19
	QPSK	1	Right	22.59	22.58	23.04	23.05	22.93	22.84	22.56	22.54	22.53	22.86	22.92	23.13
	QPSK	Innter_Full	Mid	22.61	22.70	22.67	22.55	22.71	22.67	22.69	22.73	22.67	22.70	22.66	22.66
	16QAM	1	Left	22.14	22.29	22.14	22.06	22.09	22.18	21.99	21.93	22.04	22.00	22.06	21.91
	16QAM	1	Right	22.05	22.37	22.15	22.06	22.17	22.17	22.25	22.13	22.03	22.07	22.20	22.00
	16QAM	Innter_Full	Mid	22.30	22.34	22.18	22.09	22.16	22.15	22.19	22.23	22.21	22.18	22.16	22.20
	64QAM	1	Left	20.22	20.36	21.25	21.15	20.64	20.63	20.51	20.59	20.62	20.66	20.66	20.85
	64QAM	1	Right	20.24	20.32	20.54	21.17	20.79	20.64	20.79	20.77	20.71	20.61	20.66	20.91
	64QAM	Innter_Full	Mid	20.66	20.67	20.68	20.60	20.67	20.72	20.73	20.73	20.65	20.69	20.70	20.73
	256QAM	1	Left	17.98	18.01	17.60	17.55	17.39	17.68	17.53	17.63	17.45	17.53	17.52	17.65
	256QAM	1	Right	17.90	17.95	17.62	17.50	17.54	17.65	17.51	17.49	17.57	17.69	17.68	17.70
	256QAM	Innter_Full	Mid	17.65	17.74	17.69	17.66	17.67	17.64	17.73	17.74	17.71	17.69	17.67	17.66

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UTTR-RF-FCC4G-V1.1

5.2.4 LTE Band 7, 7C and 5G NR n7

Antenna 0

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	20775	21100	21425	20775	21100	21425	20775	21100	21425	20775	21100	21425
	(MHz)		2502.5 MHz	2535 MHz	2567.5 MHz	2502.5 MHz	2535 MHz	2567.5 MHz	2502.5 MHz	2535 MHz	2567.5 MHz	2502.5 MHz	2535 MHz	2567.5 MHz
7	5	1RB#0	23.60	23.49	23.48	22.39	22.49	22.32	21.56	22.53	22.19	18.96	19.18	19.15
		1RB#12	23.49	23.37	23.31	22.41	22.52	22.40	21.62	22.51	22.16	18.98	19.45	19.20
		1RB#24	23.56	23.46	23.43	22.50	22.42	22.34	20.83	21.09	21.11	18.98	19.31	19.09
		12RB#0	22.48	22.42	22.39	21.44	21.48	21.41	20.83	21.10	21.09	18.73	19.15	19.12
		12RB#6	22.47	22.40	22.39	21.47	21.47	21.36	20.79	21.21	21.07	18.72	19.14	19.03
		12RB#13	22.48	22.35	22.36	21.44	21.44	21.40	20.82	21.07	21.11	18.75	19.18	19.06
		25RB#0	22.51	22.44	22.44	21.48	21.39	21.41	20.82	21.09	21.11	18.75	19.15	19.09
Band	Bandwidth	RB	20800	21100	21400	20800	21100	21400	20800	21100	21400	20800	21100	21400
	(MHz)		2505 MHz	2535 MHz	2565 MHz	2505 MHz	2535 MHz	2565 MHz	2505 MHz	2535 MHz	2565 MHz	2505 MHz	2535 MHz	2565 MHz
7	10	1RB#0	23.64	23.45	23.39	22.45	22.34	22.22	21.40	21.78	22.38	18.79	19.04	18.90
		1RB#24	23.49	23.45	23.37	22.36	22.51	22.40	21.54	22.11	22.36	18.62	19.35	18.78
		1RB#49	23.45	23.42	23.38	22.45	22.28	22.16	20.72	21.13	21.08	18.80	19.21	18.78
		25RB#0	22.47	22.42	22.40	21.42	21.41	21.41	20.71	21.14	21.10	18.72	19.10	19.17
		25RB#12	22.47	22.39	22.41	21.44	21.40	21.39	20.75	21.11	21.10	18.77	19.15	19.17
		25RB#25	22.48	22.38	22.39	21.42	21.38	21.38	20.72	21.13	21.12	18.75	19.20	19.13
		50RB#0	22.45	22.39	22.43	21.42	21.39	21.40	20.71	21.14	21.10	18.77	19.15	19.08
Band	Bandwidth	RB	20825	21100	21375	20825	21100	21375	20825	21100	21375	20825	21100	21375
	(MHz)		2507.5 MHz	2535 MHz	2562.5 MHz	2507.5 MHz	2535 MHz	2562.5 MHz	2507.5 MHz	2535 MHz	2562.5 MHz	2507.5 MHz	2535 MHz	2562.5 MHz
7	15	1RB#0	23.54	23.36	23.37	22.43	22.46	22.21	21.59	22.05	22.47	18.80	19.02	19.00
		1RB#38	23.45	23.51	23.40	22.36	22.43	22.40	20.73	22.37	22.37	18.63	19.43	18.84
		1RB#74	23.47	23.33	23.32	22.44	22.41	22.18	20.73	21.17	21.16	18.75	19.37	18.77
		38RB#0	22.46	22.40	22.36	22.44	22.39	22.37	20.74	21.19	21.17	20.72	21.18	21.16
		38RB#18	22.41	22.36	22.36	21.42	21.40	21.33	20.74	21.12	21.12	18.77	19.14	19.14
		38RB#37	22.45	22.39	22.35	22.45	22.39	22.35	20.74	21.09	21.17	20.75	21.08	21.14
		75RB#0	22.45	22.38	22.35	21.42	21.39	21.38	20.75	21.08	21.15	18.76	19.17	19.13
Band	Bandwidth	RB	20850	21100	21350	20850	21100	21350	20850	21100	21350	20850	21100	21350
	(MHz)		2510 MHz	2535 MHz	2560 MHz	2510 MHz	2535 MHz	2560 MHz	2510 MHz	2535 MHz	2560 MHz	2510 MHz	2535 MHz	2560 MHz
7	20	1RB#0	23.65	23.48	23.38	22.43	22.59	22.30	21.85	22.04	22.08	18.76	19.06	19.34
		1RB#49	23.39	23.41	23.51	22.55	22.65	22.26	20.73	22.45	21.81	18.89	19.18	19.17
		1RB#99	23.58	23.48	23.33	22.42	22.68	22.34	20.71	21.17	21.22	18.84	19.29	19.10
		50RB#0	22.48	22.45	22.41	21.46	21.46	21.44	20.71	21.18	21.21	18.74	19.14	19.25
		50RB#25	22.47	22.46	22.44	21.43	21.47	21.43	20.70	21.19	21.26	18.73	19.34	19.25
		50RB#50	22.44	22.44	22.43	21.44	21.42	21.46	20.67	21.20	21.21	18.73	19.17	19.16
		100RB#0	22.47	22.44	22.43	21.43	21.43	21.41	20.67	21.19	21.22	18.73	19.10	19.26

Band	BW (MHz)	RB Configuration	QPSK-QPSK			16QAM-16QAM		
Channel			20805-20949	21006-21150	21206-21350	20805-20949	21006-21150	21206-21350
7C	10-20	1RB#0-0RB#0	23.20	23.22	23.19	22.31	22.31	22.40
7C	10-20	1RB#0-1RB#99	14.78	14.77	14.66	15.43	14.88	14.94
7C	10-20	1RB#49-0RB#0	23.31	23.19	23.21	22.37	22.27	22.50
7C	10-20	12RB#0-0RB#0	23.30	13.44	23.27	22.46	22.13	22.23
7C	10-20	50RB#0-100RB#0	21.22	21.23	21.29	20.30	20.26	20.33
Channel			20825-20945	21051-21171	20825-20945	21051-21171	21277-21397	20825-20945
7C	15-10	1RB#0-0RB#0	23.16	23.14	23.21	23.21	22.56	22.91
7C	15-10	1RB#0-1RB#49	23.33	14.69	14.64	15.27	15.33	15.53
7C	15-10	1RB#74-0RB#0	23.24	23.21	23.26	22.95	22.79	22.99
7C	15-10	16RB#0-0RB#0	22.16	22.15	22.24	21.35	21.21	21.39
7C	15-10	75RB#0-50RB#0	21.20	21.23	21.33	20.37	20.18	20.29
Channel			20825-20975	21025-21175	20825-20975	21025-21175	21225-21375	20825-20975
7C	15-15	1RB#0-0RB#0	23.18	23.28	23.27	22.62	23.00	22.58
7C	15-15	1RB#0-1RB#74	14.84	14.77	14.82	15.30	15.52	15.13
7C	15-15	1RB#74-0RB#0	23.19	23.35	23.31	22.59	22.92	22.49
7C	15-15	16RB#0-0RB#0	23.40	23.37	23.38	22.43	22.41	22.40
7C	15-15	75RB#0-75RB#0	21.34	21.42	22.31	20.30	20.29	19.50
Channel			20828-20999	21003-21174	20828-20999	21003-21174	21179-21350	20828-20999
7C	15-20	1RB#0-0RB#0	23.20	23.27	23.36	20.31	20.38	23.00
7C	15-20	1RB#0-1RB#99	15.55	14.83	14.71	23.04	15.33	15.48
7C	15-20	1RB#74-0RB#0	22.56	23.39	23.38	15.59	22.75	23.02
7C	15-20	16RB#0-0RB#0	22.26	23.41	23.36	22.96	22.34	22.47
7C	15-20	75RB#0-100RB#0	19.64	21.29	21.37	22.53	20.26	20.34
Channel			20850-20994	21051-21195	20850-20994	21051-21195	21251-21395	20850-20994
7C	20-10	1RB#0-0RB#0	23.27	23.32	23.40	23.10	22.77	22.76
7C	20-10	1RB#0-1RB#49	23.40	14.94	14.85	15.43	15.43	15.23
7C	20-10	1RB#99-0RB#0	23.31	23.42	23.38	22.97	22.84	22.59
7C	20-10	18RB#0-0RB#0	22.39	22.35	22.34	21.44	21.46	21.43
7C	20-10	100RB#0-50RB#0	21.39	21.36	21.36	20.32	20.32	20.39
Channel			20850-21021	21026-21197	20850-21021	21026-21197	21201-21372	20850-21021
7C	20-15	1RB#0-0RB#0	23.38	23.27	23.36	22.67	22.96	22.91
7C	20-15	1RB#0-1RB#74	14.87	14.87	14.78	15.24	15.44	15.32
7C	20-15	1RB#99-0RB#0	23.42	23.34	23.43	22.76	22.98	23.06
7C	20-15	18RB#0-0RB#0	22.34	22.38	22.36	21.31	21.46	21.36
7C	20-15	100RB#0-75RB#0	21.39	21.36	21.44	20.28	20.36	20.38
Channel			20850-21048	21001-21199	20850-21048	21001-21199	21152-21350	20850-21048
7C	20-20	1RB#0-0RB#0	23.36	23.31	23.26	22.63	22.70	22.96
7C	20-20	1RB#0-1RB#99	14.85	14.97	14.81	15.38	15.32	15.17
7C	20-20	1RB#99-0RB#0	23.31	23.39	23.39	22.69	22.74	22.92
7C	20-20	18RB#0-0RB#0	23.28	23.32	23.22	22.50	22.34	22.25
7C	20-20	100RB#0-100RB#0	21.36	21.33	22.39	20.32	20.28	20.21

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Antenna 4

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	20775	21100	21425	20775	21100	21425	20775	21100	21425	20775	21100	21425
	(MHz)		2502.5 MHz	2535 MHz	2567.5 MHz	2502.5 MHz	2535 MHz	2567.5 MHz	2502.5 MHz	2535 MHz	2567.5 MHz	2502.5 MHz	2535 MHz	2567.5 MHz
7	5	1RB#0	23.86	24.12	23.85	22.96	22.97	22.68	21.99	21.72	22.17	18.92	19.09	18.85
		1RB#12	23.76	24.18	23.81	22.89	23.05	22.88	20.91	21.84	22.14	19.01	19.17	19.05
		1RB#24	23.95	24.21	23.83	22.96	23.05	22.81	20.94	20.97	20.73	18.96	19.12	18.95
		12RB#0	22.95	22.98	22.81	21.94	22.05	21.84	20.94	20.96	20.73	18.92	18.90	18.80
		12RB#6	22.93	22.96	22.83	21.95	22.00	21.79	20.90	20.95	20.85	18.87	18.86	18.79
		12RB#13	22.93	22.93	22.81	21.95	21.99	21.85	20.95	20.97	20.74	18.94	18.83	18.80
		25RB#0	22.99	22.99	22.86	21.98	21.96	21.88	20.95	20.96	20.74	18.90	18.87	18.78
7	10	20800	21100	21400	20800	21100	21400	20800	21100	21400	20800	21100	21400	20800
		2505 MHz	2535 MHz	2565 MHz	2505 MHz	2535 MHz	2565 MHz	2505 MHz	2535 MHz	2565 MHz	2505 MHz	2535 MHz	2565 MHz	2505 MHz
		1RB#0	23.80	24.09	23.95	22.91	22.86	22.61	21.66	21.61	21.96	18.95	18.86	18.56
		1RB#24	23.85	24.14	23.88	22.80	22.94	22.73	20.93	21.83	22.00	18.83	19.09	18.48
		1RB#49	23.92	24.18	23.74	23.00	22.84	22.65	20.93	20.89	20.79	19.02	18.83	18.62
		25RB#0	22.95	23.00	22.83	21.91	22.00	21.84	20.94	20.89	20.81	18.90	18.92	18.84
		25RB#12	22.97	22.99	22.80	21.93	21.97	21.80	20.93	20.90	20.77	18.92	18.92	18.81
7	15	25RB#25	23.00	22.97	22.84	21.96	21.98	21.85	20.94	20.91	20.80	18.96	18.88	18.86
		50RB#0	22.98	22.98	22.84	21.97	21.97	21.85	20.95	20.91	20.80	18.95	18.89	18.78
		20825	21100	21375	20825	21100	21375	20825	21100	21375	20825	21100	21375	20825
		2507.5 MHz	2535 MHz	2562.5 MHz	2507.5 MHz	2535 MHz	2562.5 MHz	2507.5 MHz	2535 MHz	2562.5 MHz	2507.5 MHz	2535 MHz	2562.5 MHz	2507.5 MHz
		1RB#0	23.85	23.98	23.99	22.95	23.02	22.59	21.79	22.01	21.90	19.01	18.94	18.51
		1RB#38	23.92	24.19	23.89	22.99	23.08	22.83	21.87	22.15	22.06	18.92	19.22	18.56
		1RB#74	23.97	24.10	23.77	22.97	22.97	22.60	21.00	20.96	20.86	18.99	18.89	18.59
7	20	38RB#0	22.99	22.96	22.83	22.98	22.96	22.81	21.01	20.95	20.87	21.01	20.98	20.85
		38RB#18	22.96	22.96	22.81	21.99	22.00	21.83	21.02	20.96	20.86	19.02	18.93	18.87
		38RB#37	22.99	22.95	22.81	22.98	22.96	22.81	21.01	20.89	20.86	21.00	20.90	20.88
		75RB#0	22.99	22.97	22.81	21.97	21.99	21.86	21.01	20.91	20.88	19.02	18.96	18.83
		20850	21100	21350	20850	21100	21350	20850	21100	21350	20850	21100	21350	20850
		2510 MHz	2535 MHz	2560 MHz	2510 MHz	2535 MHz	2560 MHz	2510 MHz	2535 MHz	2560 MHz	2510 MHz	2535 MHz	2560 MHz	2510 MHz
		1RB#0	23.86	24.11	24.01	22.87	23.17	22.73	22.39	22.10	21.95	18.97	18.99	18.88
7	25	1RB#49	23.92	24.23	24.03	23.07	23.22	22.79	22.11	21.60	21.94	19.21	19.00	19.07
		1RB#99	24.10	24.17	23.80	23.01	23.04	22.75	21.02	20.97	20.86	19.02	18.94	18.92
		50RB#0	23.01	23.04	22.88	22.02	22.06	21.95	21.01	20.98	20.86	19.00	18.96	18.86
		50RB#25	23.06	23.05	22.93	22.06	22.06	21.92	21.08	21.03	20.90	19.03	18.88	18.91
		50RB#50	23.04	23.00	22.86	22.01	22.01	21.90	21.01	20.98	20.86	19.01	19.07	18.86
		100RB#0	23.03	23.01	22.88	22.01	22.01	21.89	21.02	20.98	20.86	19.02	18.92	18.89

Band	BW (MHz)	RB Configuration	QPSK-QPSK			16QAM-16QAM		
Channel			20805-20949	21006-21150	21206-21350	20805-20949	21006-21150	21206-21350
7C	10-20	1RB#0-0RB#0	23.66	23.65	23.67	22.76	22.79	22.88
7C	10-20	1RB#0-1RB#99	15.24	15.23	15.17	15.91	15.30	15.45
7C	10-20	1RB#49-0RB#0	23.73	23.65	23.72	22.77	22.78	22.92
7C	10-20	12RB#0-0RB#0	23.76	13.95	23.70	22.83	22.66	22.74
7C	10-20	50RB#0-100RB#0	21.68	21.66	21.74	20.72	20.72	20.76
Channel			20825-20945	21051-21171	21277-21397	20825-20945	21051-21171	21277-21397
7C	15-10	1RB#0-0RB#0	23.67	23.54	23.67	23.64	22.98	23.36
7C	15-10	1RB#0-1RB#49	23.73	15.20	15.15	15.70	15.78	15.96
7C	15-10	1RB#74-0RB#0	23.75	23.69	23.74	23.38	23.16	23.44
7C	15-10	16RB#0-0RB#0	22.69	22.63	22.69	21.80	21.74	21.87
7C	15-10	75RB#0-50RB#0	21.73	21.74	21.76	20.77	20.66	20.72
Channel			20825-20975	21025-21175	21225-21375	20825-20975	21025-21175	21225-21375
7C	15-15	1RB#0-0RB#0	23.69	23.74	23.80	23.07	23.40	23.09
7C	15-15	1RB#0-1RB#74	15.26	15.25	15.30	15.81	15.94	15.56
7C	15-15	1RB#74-0RB#0	23.67	23.80	23.82	23.07	23.43	23.00
7C	15-15	16RB#0-0RB#0	23.80	23.77	23.81	22.83	22.89	22.86
7C	15-15	75RB#0-75RB#0	21.79	21.79	22.82	20.76	20.80	20.01
Channel			20828-20999	21003-21174	21179-21350	20828-20999	21003-21174	21179-21350
7C	15-20	1RB#0-0RB#0	23.71	23.72	23.78	20.76	20.81	23.48
7C	15-20	1RB#0-1RB#99	16.01	15.23	15.14	23.50	15.78	15.91
7C	15-20	1RB#74-0RB#0	23.04	23.79	23.86	16.02	23.21	23.42
7C	15-20	16RB#0-0RB#0	22.79	23.83	23.81	23.44	22.87	22.90
7C	15-20	75RB#0-100RB#0	20.04	21.75	21.77	23.01	20.71	20.79
Channel			20850-20994	21051-21195	21251-21395	20850-20994	21051-21195	21251-21395
7C	20-10	1RB#0-0RB#0	23.78	23.83	23.80	23.61	23.20	23.16
7C	20-10	1RB#0-1RB#49	23.80	15.42	15.33	15.94	15.80	15.68
7C	20-10	1RB#99-0RB#0	23.82	23.90	23.80	23.48	23.27	23.10
7C	20-10	18RB#0-0RB#0	22.82	22.75	22.85	21.90	21.86	21.85
7C	20-10	100RB#0-50RB#0	21.84	21.84	21.82	20.83	20.78	20.84
Channel			20850-21021	21026-21197	21201-21372	20850-21021	21026-21197	21201-21372
7C	20-15	1RB#0-0RB#0	23.80	23.78	23.78	23.07	23.42	23.39
7C	20-15	1RB#0-1RB#74	15.35	15.27	15.21	15.72	15.87	15.78
7C	20-15	1RB#99-0RB#0	23.82	23.80	23.85	23.13	23.38	23.57
7C	20-15	18RB#0-0RB#0	22.79	22.78	22.78	21.82	21.86	21.81
7C	20-15	100RB#0-75RB#0	21.85	21.82	21.81	20.79	20.81	20.81
Channel			20850-21048	21001-21199	21152-21350	20850-21048	21001-21199	21152-21350
7C	20-20	1RB#0-0RB#0	23.84	23.82	23.77	23.14	23.18	23.36
7C	20-20	1RB#0-1RB#99	15.31	15.34	15.26	15.81	15.72	15.65
7C	20-20	1RB#99-0RB#0	23.79	23.87	23.82	23.17	23.17	23.38
7C	20-20	18RB#0-0RB#0	23.79	23.78	23.70	22.87	22.79	22.73
7C	20-20	100RB#0-100RB#0	21.76	21.78	22.79	20.75	20.76	20.74

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UTTR-RF-FCC4G-V1.1

Antenna 0

5G NR n7		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz		
Channel				500500	507000	513500	501000	507000	513000	501500	507000	512500	502000	507000	512000
Frequency (MHz)				2502.5	2535	2567.5	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	22.89	22.98	23.09	22.99	23.01	23.03	23.00	23.01	23.06	23.04	23.00	23.04
	$\pi/2$ BPSK	1	Right	22.86	23.04	23.06	22.97	23.10	23.12	23.05	23.05	23.09	23.05	23.03	23.12
	$\pi/2$ BPSK	Innter_Full	Mid	23.04	23.09	23.21	23.10	23.14	23.24	23.11	23.13	23.23	23.24	23.21	23.29
	QPSK	1	Left	22.93	23.00	23.03	23.03	23.05	23.07	23.00	23.02	23.07	22.98	23.07	23.14
	QPSK	1	Right	22.92	23.10	23.07	23.09	23.16	23.16	23.02	23.07	23.10	23.07	23.01	23.19
	QPSK	Innter_Full	Mid	23.07	23.14	23.26	23.10	23.13	23.23	23.17	23.20	23.28	23.24	23.20	23.32
	16QAM	1	Left	22.28	22.21	22.54	22.52	22.38	22.42	22.35	22.38	22.57	22.56	22.26	22.42
	16QAM	1	Right	22.34	22.47	22.38	22.26	22.34	22.33	22.21	22.30	22.48	22.31	22.39	22.44
	16QAM	Innter_Full	Mid	22.18	22.20	22.30	22.28	22.24	22.38	22.27	22.26	22.37	22.30	22.29	22.37
	64QAM	1	Left	20.85	20.84	20.95	21.13	20.88	20.99	20.96	20.90	21.13	20.88	20.94	21.07
	64QAM	1	Right	20.83	20.86	20.95	20.86	21.16	21.13	20.91	20.86	21.13	20.89	20.93	21.13
	64QAM	Innter_Full	Mid	20.71	20.69	20.85	20.78	20.79	20.90	20.77	20.74	20.86	20.74	20.76	20.87
	256QAM	1	Left	18.89	18.78	18.90	18.94	18.84	18.93	18.92	18.74	18.86	18.87	18.77	18.84
	256QAM	1	Right	18.78	18.91	18.90	18.81	18.98	18.97	18.78	18.78	18.88	18.81	18.80	18.87
	256QAM	Innter_Full	Mid	18.73	18.69	18.81	18.70	18.67	18.75	18.74	18.72	18.80	18.70	18.73	18.83
CP-OFDM	QPSK	1	Left	21.79	21.77	21.74	21.86	21.72	21.84	21.87	21.79	21.89	21.90	21.66	21.88
	QPSK	1	Right	21.81	21.85	21.90	21.83	21.87	21.94	21.81	21.86	21.79	21.92	21.77	21.98
	QPSK	Innter_Full	Mid	21.60	21.62	21.68	21.74	21.69	21.81	21.75	21.75	21.82	21.72	21.75	21.78
	16QAM	1	Left	21.10	21.20	21.23	21.17	21.16	21.20	20.84	20.90	20.87	20.87	20.86	21.16
	16QAM	1	Right	21.13	21.20	21.25	20.92	21.19	20.99	20.93	20.95	21.30	21.06	21.15	21.06
	16QAM	Innter_Full	Mid	21.25	21.26	21.30	21.23	21.17	21.28	21.26	21.23	21.32	21.28	21.25	21.30
	64QAM	1	Left	19.57	20.08	19.70	20.12	19.60	19.69	19.67	19.54	20.12	19.70	19.61	20.09
	64QAM	1	Right	19.57	20.15	20.19	20.14	20.26	20.25	20.09	20.14	20.22	20.21	20.14	20.25
	64QAM	Innter_Full	Mid	19.78	19.76	19.85	19.69	19.64	19.72	19.78	19.72	19.88	19.76	19.75	19.81
	256QAM	1	Left	16.60	16.66	16.75	16.80	16.75	16.76	16.76	16.74	16.70	16.77	16.66	16.71
	256QAM	1	Right	16.57	16.71	16.82	16.70	16.93	16.76	16.77	16.70	16.86	16.75	16.80	16.88
	256QAM	Innter_Full	Mid	16.64	16.65	16.76	16.64	16.63	16.78	16.71	16.72	16.83	16.72	16.73	16.81

Antenna 4

5G NR n7		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz		
Channel				500500	507000	513500	501000	507000	513000	501500	507000	512500	502000	507000	512000
Frequency (MHz)				2502.5	2535	2567.5	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.25	23.41	23.32	23.40	23.51	23.42	23.44	23.21	23.20	23.30	23.28	23.40
	$\pi/2$ BPSK	1	Right	23.51	23.48	23.53	23.56	23.31	23.38	23.45	23.38	23.28	23.31	23.36	23.57
	$\pi/2$ BPSK	Innter_Full	Mid	23.54	23.52	23.50	23.45	23.56	23.45	23.47	23.61	23.52	23.52	23.49	23.45
	QPSK	1	Left	23.34	23.28	23.50	23.21	23.23	23.45	23.44	23.40	23.47	23.26	23.37	23.45
	QPSK	1	Right	23.40	23.41	23.54	23.33	23.34	23.64	23.28	23.29	23.45	23.35	23.46	23.54
	QPSK	Innter_Full	Mid	23.50	23.61	23.55	23.40	23.65	23.48	23.64	23.56	23.65	23.71	23.48	23.72
	16QAM	1	Left	22.96	22.56	22.83	22.92	22.64	22.93	22.87	22.62	22.70	22.89	22.54	22.75
	16QAM	1	Right	22.64	22.84	22.60	22.62	22.55	22.90	22.82	22.74	22.82	22.52	22.77	22.84
	16QAM	Innter_Full	Mid	22.46	22.62	22.65	22.75	22.57	22.68	22.56	22.75	22.53	22.56	22.80	22.82
	64QAM	1	Left	21.24	21.15	21.35	21.34	21.34	21.28	21.21	21.10	21.28	21.28	21.29	21.47
	64QAM	1	Right	21.29	21.16	21.48	21.20	21.21	21.48	21.12	21.29	21.34	21.10	21.24	21.59
	64QAM	Innter_Full	Mid	21.19	20.99	21.13	21.25	21.09	21.08	21.04	20.92	21.18	21.00	21.16	21.17
	256QAM	1	Left	19.28	19.17	19.30	19.10	19.03	19.35	19.28	19.00	19.29	19.22	19.13	19.12
	256QAM	1	Right	19.14	19.25	19.28	19.07	19.11	19.15	19.26	19.06	19.03	19.26	19.31	19.32
	256QAM	Innter_Full	Mid	18.93	19.18	19.18	18.98	19.04	19.21	19.15	19.14	19.24	19.05	19.14	19.14
CP-OFDM	QPSK	1	Left	22.35	21.89	22.28	22.23	22.07	22.18	22.28	21.92	22.09	22.21	21.99	22.16
	QPSK	1	Right	22.08	21.98	22.34	22.38	22.18	22.14	22.33	22.22	22.44	22.32	22.23	22.31
	QPSK	Innter_Full	Mid	22.13	22.10	22.29	22.08	22.06	22.23	22.03	22.08	22.04	22.12	21.91	22.29
	16QAM	1	Left	21.38	21.19	21.42	21.38	21.26	21.37	21.27	21.37	21.37	21.23	21.24	21.51
	16QAM	1	Right	21.42	21.43	21.34	21.57	21.31	21.27	21.36	21.46	21.36	21.57	21.50	21.36
	16QAM	Innter_Full	Mid	21.49	21.63	21.63	21.49	21.48	21.63	21.61	21.46	21.70	21.74	21.61	21.76
	64QAM	1	Left	20.03	19.97	20.60	19.98	19.82	20.39	20.21	19.94	20.37	20.16	20.06	20.39
	64QAM	1	Right	20.44	20.44	20.66	20.57	20.49	20.55	20.37	20.40	20.55	20.54	20.65	20.41
	64QAM	Innter_Full	Mid	20.17	20.08	20.02	20.12	20.05	20.26	20.06	20.03	20.11	20.17	20.10	19.97
	256QAM	1	Left	16.93	17.07	16.99	16.93	17.01	17.01	17.03	16.89	17.09	17.00	16.89	16.99
	256QAM	1	Right	16.98	17.15	17.18	16.98	17.20	17.04	17.11	17.25	17.14	17.20	17.25	17.14
	256QAM	Innter_Full	Mid	16.93	17.04	17.12	17.03	17.01	17.22	17.10	17.11	17.27	17.17	17.06	17.27

5.2.5 LTE Band 12 and 5G NR n12

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	23017	23095	23173	23017	23095	23173	23017	23095	23173	23017	23095	23173
	(MHz)		699.7 MHz	707.5 MHz	715.3 MHz	699.7 MHz	707.5 MHz	715.3 MHz	699.7 MHz	707.5 MHz	715.3 MHz	699.7 MHz	707.5 MHz	715.3 MHz
12	1.4	1RB#0	24.18	24.26	24.23	23.12	23.07	23.02	22.60	22.31	22.30	19.11	19.49	19.49
		1RB#2	24.27	24.28	24.23	23.18	23.33	23.14	22.58	22.47	22.44	19.36	19.15	19.66
		1RB#5	24.21	24.35	24.20	23.14	23.15	22.95	21.36	21.24	21.44	19.41	19.20	19.54
		3RB#0	24.13	24.19	24.22	22.99	22.99	23.05	21.38	21.24	21.45	19.31	19.26	19.27
		3RB#1	24.18	24.14	24.23	23.10	23.05	23.10	22.52	22.48	22.29	19.39	19.27	19.28
		3RB#3	24.10	24.20	24.21	22.97	23.04	23.03	21.36	21.25	21.45	19.35	19.29	19.26
		6RB#0	23.21	23.18	23.22	22.21	22.04	22.17	21.37	21.29	21.44	19.40	19.43	19.53
Band	Bandwidth	RB	23025	23095	23165	23025	23095	23165	23025	23095	23165	23025	23095	23165
	(MHz)		700.5 MHz	707.5 MHz	714.5 MHz	700.5 MHz	707.5 MHz	714.5 MHz	700.5 MHz	707.5 MHz	714.5 MHz	700.5 MHz	707.5 MHz	714.5 MHz
12	3	1RB#0	24.26	24.22	24.21	23.16	23.07	22.97	22.28	22.25	22.69	19.49	19.48	19.17
		1RB#8	24.31	24.31	24.25	23.14	23.33	23.22	22.42	22.52	22.72	19.34	19.71	19.12
		1RB#14	24.28	24.32	24.15	23.23	23.12	22.96	21.43	21.48	21.35	19.50	19.48	19.20
		8RB#0	23.24	23.23	23.28	22.26	22.23	22.24	21.44	21.49	21.38	19.48	19.39	19.58
		8RB#4	23.24	23.25	23.25	22.23	22.20	22.17	21.52	21.41	21.43	19.49	19.46	19.51
		8RB#7	23.28	23.25	23.26	22.28	22.27	22.27	21.43	21.50	21.33	19.50	19.42	19.57
		15RB#0	23.26	23.25	23.23	22.30	22.15	22.15	21.43	21.54	21.36	19.54	19.48	19.45
Band	Bandwidth	RB	23035	23095	23155	23035	23095	23155	23035	23095	23155	23035	23095	23155
	(MHz)		701.5 MHz	707.5 MHz	713.5 MHz	701.5 MHz	707.5 MHz	713.5 MHz	701.5 MHz	707.5 MHz	713.5 MHz	701.5 MHz	707.5 MHz	713.5 MHz
12	5	1RB#0	24.36	24.34	24.38	23.28	23.36	23.28	22.40	23.05	22.74	19.80	19.70	19.57
		1RB#12	24.31	24.33	24.25	23.26	23.50	23.31	22.50	23.02	22.55	19.93	19.89	19.61
		1RB#24	24.35	24.37	24.43	23.37	23.38	23.23	21.63	21.47	21.57	19.91	19.73	19.59
		12RB#0	23.31	23.26	23.31	22.29	22.33	22.31	21.64	21.48	21.57	19.55	19.50	19.57
		12RB#6	23.26	23.30	23.31	22.28	22.32	22.23	21.62	21.57	21.54	19.52	19.54	19.49
		12RB#13	23.30	23.25	23.28	22.30	22.34	22.29	21.63	21.48	21.55	19.54	19.52	19.60
		25RB#0	23.30	23.31	23.31	22.27	22.27	22.32	21.62	21.47	21.54	19.56	19.57	19.56
Band	Bandwidth	RB	23060	23095	23130	23060	23095	23130	23060	23095	23130	23060	23095	23130
	(MHz)		704 MHz	707.5 MHz	711 MHz	704 MHz	707.5 MHz	711 MHz	704 MHz	707.5 MHz	711 MHz	704 MHz	707.5 MHz	711 MHz
12	10	1RB#0	24.35	24.33	24.25	23.34	23.27	23.02	22.42	22.43	22.73	19.61	19.62	19.28
		1RB#24	24.46	24.36	24.28	23.34	23.40	23.22	22.53	22.60	22.79	19.45	19.75	19.26
		1RB#49	24.39	24.35	24.26	23.41	23.23	23.07	21.59	21.54	21.56	19.65	19.62	19.26
		25RB#0	23.32	23.28	23.35	22.26	22.27	22.35	21.59	21.54	21.53	19.59	19.56	19.61
		25RB#12	23.32	23.30	23.31	22.31	22.30	22.28	21.62	21.57	21.53	19.60	19.56	19.61
		25RB#25	23.38	23.29	23.32	22.33	22.30	22.29	21.59	21.56	21.52	19.61	19.56	19.62
		50RB#0	23.34	23.32	23.31	22.32	22.30	22.29	21.60	21.54	21.52	19.64	19.56	19.54

5G NR n12		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz	
Channel				140300	141500	142700	140800	141500	142200	141300	141500	141700	N/A	
Frequency (MHz)				701.5	707.5	713.5	704	707.5	711	706.5	707.5	708.5		
DFT-s-OFDM	π/2 BPSK	1	Left	24.14	24.12	24.14	24.13	24.12	24.03	24.08	24.04	24.00	N/A	
		1	Right	24.11	24.13	24.11	24.14	24.14	24.07	24.07	24.02	23.98		
		Inntr_Full	Mid	24.18	24.13	23.78	24.24	24.24	24.25	24.17	24.16	24.21		
		1	Left	24.18	24.16	24.21	24.15	24.13	24.10	24.11	24.05	24.07		
		1	Right	24.15	24.20	24.15	24.19	24.13	24.07	24.04	24.07	24.03		
		Inntr_Full	Mid	24.13	24.12	24.17	24.22	24.19	24.24	24.21	24.22	24.23		
		1	Left	23.20	23.17	23.25	23.17	23.18	23.16	23.38	23.11	23.11		
		1	Right	23.43	23.51	23.21	23.23	23.43	23.15	23.14	23.37	23.35		
		Inntr_Full	Mid	23.16	23.12	23.29	23.29	23.31	23.29	23.27	23.20	23.27		
		1	Left	21.65	21.64	21.64	21.64	21.90	21.87	21.61	21.87	21.54		
		1	Right	21.59	21.65	21.92	21.93	21.62	21.61	21.89	21.84	21.56		
		Inntr_Full	Mid	21.83	21.81	21.81	21.80	21.79	21.84	21.73	21.77	21.80		
		1	Left	19.70	19.83	19.68	19.82	19.65	19.76	19.76	19.53	19.60		
		1	Right	19.67	19.67	19.85	19.68	19.65	19.79	19.73	19.51	19.73		
CP-OFDM	QPSK	Inntr_Full	Mid	19.80	19.80	19.81	19.71	19.68	19.75	19.69	19.68	19.75		
		1	Left	22.94	22.71	22.72	22.66	22.96	22.57	22.90	22.92	22.90		
		1	Right	23.03	22.78	22.69	23.02	22.95	22.94	22.85	22.50	22.83		
		Inntr_Full	Mid	22.72	22.70	22.65	22.65	22.76	22.69	22.69	22.68	22.74		
		1	Left	22.25	22.26	22.38	22.32	22.25	22.26	22.25	22.27	22.31		
		1	Right	22.29	22.35	22.31	22.34	22.20	22.27	22.20	22.19	22.18		
		Inntr_Full	Mid	22.38	22.36	22.31	22.27	22.22	22.20	22.27	22.21	22.27		
		1	Left	20.63	20.59	20.67	20.83	20.80	20.63	20.80	20.77	20.78		
		1	Right	20.65	20.68	20.87	20.94	20.73	20.70	20.76	20.58	20.58		
		Inntr_Full	Mid	20.86	20.74	20.75	20.77	20.77	20.72	20.75	20.73	20.77		
		1	Left	17.70	17.71	17.71	17.57	17.68	17.47	17.55	17.51	17.61		
		1	Right	17.73	17.74	17.50	17.81	17.82	17.76	17.64	17.48	17.52		
		Inntr_Full	Mid	17.73	17.74	17.65	17.66	17.66	17.61	17.73	17.69	17.72		

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UTTR-RF-FCC4G-V1.1

5.2.6 LTE Band 13

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	23205	23230	23255	23205	23230	23255	23205	23230	23255	23205	23230	23255
	(MHz)		779.5 MHz	782 MHz	784.5 MHz	779.5 MHz	782 MHz	784.5 MHz	779.5 MHz	782 MHz	784.5 MHz	779.5 MHz	782 MHz	784.5 MHz
13	5	1RB#0	24.29	24.30	24.31	23.19	23.34	23.21	22.33	23.06	22.71	19.78	19.73	19.62
		1RB#12	24.13	24.23	24.21	23.17	23.35	23.23	22.43	22.96	22.54	19.84	19.85	19.61
		1RB#24	24.19	24.21	24.31	23.24	23.34	23.17	21.57	21.44	21.55	19.83	19.68	19.53
		12RB#0	23.24	23.26	23.24	22.25	22.33	22.27	21.57	21.46	21.55	19.48	19.57	19.56
		12RB#6	23.23	23.23	23.23	22.22	22.32	22.21	21.57	21.55	21.52	19.46	19.51	19.49
		12RB#13	23.23	23.20	23.22	22.19	22.28	22.23	21.54	21.45	21.53	19.48	19.49	19.51
		25RB#0	23.25	23.26	23.29	22.23	22.21	22.28	21.56	21.44	21.54	19.49	19.52	19.55
Band	Bandwidth	RB	23230			23230			23230			23230		
	(MHz)		782 MHz			782 MHz			782 MHz			782 MHz		
13	10	1RB#0		24.25			23.30			22.20			19.59	
		1RB#24		24.34			23.15			22.45			19.38	
		1RB#49		24.20			23.27			21.54			19.64	
		25RB#0		23.27			22.25			21.56			19.56	
		25RB#12		23.25			22.24			21.55			19.55	
		25RB#25		23.27			22.22			21.56			19.57	
		50RB#0		23.29			22.25			21.54			19.59	

5.2.7 LTE Band 17

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	23755	23790	23825	23755	23790	23825	23755	23790	23825	23755	23790	23825
	(MHz)		706.5 MHz	710 MHz	713.5 MHz	706.5 MHz	710 MHz	713.5 MHz	706.5 MHz	710 MHz	713.5 MHz	706.5 MHz	710 MHz	713.5 MHz
17	5	1RB#0	24.41	24.36	24.38	23.39	23.25	23.35	22.45	22.37	23.02	19.87	19.79	19.75
		1RB#12	24.40	24.31	24.28	23.43	23.38	23.23	22.55	22.52	23.00	20.03	19.94	19.85
		1RB#24	24.39	24.44	24.37	23.43	23.26	23.36	21.67	21.62	21.49	-31.87	19.88	19.72
		12RB#0	23.30	23.35	23.29	22.38	22.35	22.27	21.57	21.61	21.48	19.59	19.59	19.53
		12RB#6	23.33	23.34	23.32	22.36	22.28	22.34	21.56	21.63	21.62	19.56	19.54	19.51
		12RB#13	23.28	23.28	23.30	22.36	22.30	22.32	21.59	21.65	21.51	19.58	19.53	19.57
		25RB#0	23.33	23.35	23.34	22.32	22.37	22.32	21.58	21.63	21.52	19.55	19.54	19.55
Band	Bandwidth	RB	23780	23790	23800	23780	23790	23800	23780	23790	23800	23780	23790	23800
	(MHz)		709 MHz	710 MHz	711 MHz	709 MHz	710 MHz	711 MHz	709 MHz	710 MHz	711 MHz	709 MHz	710 MHz	711 MHz
17	10	1RB#0	24.45	24.35	24.40	23.37	23.22	23.17	22.18	22.39	22.84	19.64	19.56	19.31
		1RB#24	24.34	24.38	24.32	23.26	23.43	23.30	22.51	22.60	22.81	19.47	19.83	19.30
		1RB#49	24.36	24.42	24.32	23.34	23.24	23.12	21.56	21.55	21.57	19.59	19.58	19.33
		25RB#0	23.31	23.32	23.37	22.27	22.31	22.38	21.56	21.57	21.54	19.55	19.57	19.63
		25RB#12	23.36	23.33	23.32	22.34	22.32	22.32	21.61	21.57	21.54	19.60	19.58	19.63
		25RB#25	23.31	23.31	23.35	22.27	22.31	22.35	21.55	21.57	21.56	19.54	19.57	19.64
		50RB#0	23.34	23.32	23.34	22.30	22.31	22.33	21.56	21.55	21.57	19.61	19.56	19.56

5.2.8 LTE Band 25 and 5G NR n25

Antenna 1

			Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth (MHz)	RB	26047 1850.7 MHz	26365 1882.5 MHz	26683 1914.3 MHz	26047 1850.7 MHz	26365 1882.5 MHz	26683 1914.3 MHz	26047 1850.7 MHz	26365 1882.5 MHz	26683 1914.3 MHz	26047 1850.7 MHz	26365 1882.5 MHz	26683 1914.3 MHz
25	1.4	1RB#0	23.70	24.14	24.16	22.65	23.45	22.94	22.09	22.50	22.60	18.91	19.85	19.19
		1RB#2	23.83	24.21	24.23	22.71	23.63	23.20	21.96	22.66	22.60	18.61	20.07	19.18
		1RB#5	23.74	24.16	24.13	22.64	23.45	22.99	20.62	21.68	21.11	18.70	19.78	19.18
		3RB#0	23.64	24.11	24.10	22.48	23.37	22.95	20.64	21.68	21.11	18.74	19.55	19.22
		3RB#1	23.67	24.08	24.19	22.58	23.39	23.09	21.80	22.45	22.33	18.75	19.58	19.17
		3RB#3	23.63	24.06	24.17	22.50	23.34	22.90	20.64	21.65	21.12	18.74	19.54	19.22
25	3	6RB#0	22.73	23.31	23.16	21.67	22.40	22.14	20.59	21.63	21.12	18.89	19.83	19.40
		26055	26365	26675	26055	26365	26675	26055	26365	26675	26055	26365	26675	26055
		1RB#0	23.80	24.22	24.22	22.73	23.50	23.12	21.70	22.51	22.46	19.02	19.85	19.21
		1RB#8	23.83	24.24	24.23	22.65	23.69	23.32	21.70	22.59	22.55	18.83	20.00	19.11
		1RB#14	23.82	24.15	24.16	22.78	23.32	23.19	20.77	21.66	21.20	19.10	19.67	19.19
		8RB#0	22.77	23.52	23.24	21.76	22.58	22.23	20.74	21.70	21.24	18.90	19.75	19.59
25	5	8RB#4	22.73	23.56	23.15	21.72	22.52	22.12	20.86	21.63	21.26	18.94	19.77	19.47
		8RB#7	22.82	23.48	23.17	21.75	22.49	22.13	20.74	21.73	21.19	18.93	19.71	19.49
		15RB#0	22.73	23.44	23.21	21.77	22.53	22.05	20.79	21.66	21.18	19.02	19.76	19.40
		26065	26365	26665	26065	26365	26665	26065	26365	26665	26065	26365	26665	26065
		1RB#0	23.95	24.22	24.22	22.83	23.74	23.27	21.78	23.26	22.57	19.29	20.08	19.63
		1RB#12	23.81	24.25	24.24	22.82	23.82	23.36	21.94	23.22	22.43	19.36	20.18	19.69
25	10	1RB#24	24.06	24.24	24.25	22.95	23.59	23.21	21.03	21.67	21.45	19.44	19.95	19.62
		12RB#0	22.80	23.58	23.27	21.78	22.70	22.30	21.03	21.67	21.45	19.00	19.89	19.56
		12RB#6	22.80	23.54	23.24	21.79	22.64	22.23	20.98	21.82	21.42	19.01	19.86	19.50
		12RB#13	22.90	23.52	23.26	21.86	22.59	22.24	21.04	21.66	21.43	19.08	19.80	19.49
		25RB#0	22.88	23.56	23.29	21.84	22.54	22.29	21.02	21.69	21.46	19.08	19.82	19.53
		26090	26365	26640	26090	26365	26640	26090	26365	26640	26090	26365	26640	26090
25	15	1RB#0	23.87	24.26	24.15	22.86	23.69	23.00	21.78	22.69	22.52	19.08	20.02	19.19
		1RB#24	23.97	24.21	24.24	22.93	23.69	23.26	21.95	22.77	22.69	18.97	20.03	19.16
		1RB#49	24.14	24.12	24.18	23.33	23.38	23.09	21.08	21.74	21.38	19.52	19.71	19.29
		25RB#0	22.88	23.58	23.23	21.86	22.66	22.25	21.08	21.73	21.38	19.05	19.89	19.52
		25RB#12	22.92	23.66	23.22	21.91	22.57	22.19	21.03	21.72	21.34	19.12	19.84	19.51
		25RB#25	23.14	23.58	23.26	22.07	22.54	22.24	21.08	21.74	21.38	19.27	19.79	19.51
25	20	50RB#0	22.97	23.61	23.25	21.95	22.58	22.23	21.08	21.73	21.37	19.20	19.83	19.46
		26115	26365	26615	26115	26365	26615	26115	26365	26615	26115	26365	26615	26115
		1RB#0	23.90	24.22	24.11	22.87	23.86	22.97	21.84	23.09	22.57	19.08	20.08	19.15
		1RB#38	24.23	24.24	24.25	23.12	23.69	23.22	22.16	22.97	22.67	19.25	20.11	19.19
		1RB#74	24.25	24.16	24.24	23.63	23.46	23.01	21.30	21.79	21.42	19.89	19.68	19.25
		38RB#0	23.16	23.54	23.23	23.18	23.60	23.22	21.30	21.78	21.42	19.29	19.79	19.40
25	25	38RB#18	23.11	23.56	23.17	22.11	22.61	22.18	21.24	21.76	21.35	19.33	19.85	19.46
		38RB#37	23.18	23.54	23.21	23.16	23.59	23.21	21.25	21.74	21.35	19.23	19.73	19.34
		75RB#0	23.19	23.48	23.21	22.12	22.60	22.24	21.22	21.71	21.37	19.38	19.87	19.48
		26140	26365	26590	26140	26365	26590	26140	26365	26590	26140	26365	26590	26140
		1RB#0	23.98	24.22	24.13	22.80	24.05	23.05	22.55	23.12	22.57	19.08	20.09	19.75
		1RB#49	24.23	24.24	24.16	23.47	23.83	23.11	22.00	22.90	22.68	19.50	20.05	19.72
25	30	1RB#99	24.58	24.51	24.48	23.82	23.56	23.22	21.49	21.78	21.45	20.02	19.62	19.86
		50RB#0	23.09	23.62	23.27	22.10	22.76	22.29	21.47	21.78	21.41	19.25	20.00	19.50
		50RB#25	23.36	23.57	23.24	22.33	22.66	22.24	21.48	21.82	21.41	19.54	19.86	19.46
		50RB#50	23.64	23.53	23.29	22.62	22.50	22.31	21.48	21.80	21.45	19.81	19.75	19.53
		100RB#0	23.36	23.55	23.25	22.36	22.61	22.25	21.45	21.78	21.46	19.53	19.87	19.51
		100RB#0	23.36	23.55	23.25	22.36	22.61	22.25	21.45	21.78	21.46	19.53	19.87	19.51

Antenna 4

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	26047	26365	26683	26047	26365	26683	26047	26365	26683	26047	26365	26683
	(MHz)		1850.7 MHz	1882.5 MHz	1914.3 MHz	1850.7 MHz	1882.5 MHz	1914.3 MHz	1850.7 MHz	1882.5 MHz	1914.3 MHz	1850.7 MHz	1882.5 MHz	1914.3 MHz
25	1.4	1RB#0	23.81	24.09	23.91	22.76	22.87	22.64	21.74	22.20	21.71	18.99	19.01	19.00
		1RB#2	23.82	24.09	23.99	22.79	23.15	22.88	20.99	22.22	21.86	19.22	18.98	19.21
		1RB#5	23.82	24.11	24.00	22.76	22.92	22.76	20.98	20.98	20.96	19.01	19.06	19.06
		3RB#0	23.71	24.02	23.86	22.57	22.80	22.73	20.97	20.98	21.00	18.82	18.98	18.77
		3RB#1	23.75	23.96	23.90	22.66	22.87	22.81	21.60	22.09	21.80	18.86	19.04	18.79
		3RB#3	23.72	24.03	23.92	22.52	22.78	22.68	20.91	21.00	20.95	18.89	18.96	18.82
25	3	6RB#0	22.83	22.97	22.96	21.75	21.78	21.93	20.89	21.01	20.98	18.89	18.98	19.02
		Bandwidth	26055	26365	26675	26055	26365	26675	26055	26365	26675	26055	26365	26675
		RB	1851.5 MHz	1882.5 MHz	1913.5 MHz	1851.5 MHz	1882.5 MHz	1913.5 MHz	1851.5 MHz	1882.5 MHz	1913.5 MHz	1851.5 MHz	1882.5 MHz	1913.5 MHz
		1RB#0	23.87	24.09	23.89	22.82	22.92	22.64	21.64	21.94	22.13	19.07	19.17	18.74
		1RB#8	23.84	24.07	23.83	22.71	23.12	22.88	20.93	22.02	22.16	18.93	19.34	18.63
		1RB#14	23.85	24.11	24.00	22.84	22.87	22.76	20.94	21.10	20.92	19.11	19.09	18.83
25	5	8RB#0	22.88	23.03	22.94	21.87	21.99	21.95	20.93	21.12	20.94	18.97	19.01	19.13
		8RB#4	22.82	22.97	22.88	21.82	21.93	21.84	21.03	21.02	21.00	18.99	19.01	19.06
		8RB#7	22.88	23.00	22.98	21.89	22.01	21.97	20.92	21.13	20.96	18.96	19.01	19.15
		15RB#0	22.84	23.03	22.96	21.80	21.95	21.88	20.94	21.11	20.90	19.06	19.06	19.00
		Bandwidth	26065	26365	26665	26065	26365	26665	26065	26365	26665	26065	26365	26665
		RB	1852.5 MHz	1882.5 MHz	1912.5 MHz	1852.5 MHz	1882.5 MHz	1912.5 MHz	1852.5 MHz	1882.5 MHz	1912.5 MHz	1852.5 MHz	1882.5 MHz	1912.5 MHz
25	10	1RB#0	24.01	24.18	24.16	22.90	23.15	23.03	21.83	22.58	22.26	19.35	19.33	19.20
		1RB#12	23.92	24.16	24.03	22.82	23.22	23.10	21.97	22.67	22.20	19.38	19.47	19.26
		1RB#24	24.10	24.16	24.21	22.98	23.22	22.92	21.13	21.07	21.16	19.34	19.35	19.15
		12RB#0	22.89	23.09	23.07	21.89	22.14	22.08	21.15	21.09	21.16	19.04	19.18	19.15
		12RB#6	22.89	23.06	23.05	21.90	22.12	22.01	21.14	21.20	21.11	19.04	19.17	19.11
		12RB#13	22.91	23.08	23.06	21.90	22.12	22.05	21.14	21.10	21.16	19.05	19.15	19.11
25	15	25RB#0	22.95	23.13	23.06	21.94	22.04	22.10	21.16	21.06	21.13	19.12	19.12	19.08
		Bandwidth	26090	26365	26640	26090	26365	26640	26090	26365	26640	26090	26365	26640
		RB	1855 MHz	1882.5 MHz	1910 MHz	1855 MHz	1882.5 MHz	1910 MHz	1855 MHz	1882.5 MHz	1910 MHz	1855 MHz	1882.5 MHz	1910 MHz
		1RB#0	23.97	24.18	23.99	22.99	23.03	22.79	21.81	22.06	22.24	19.09	19.21	18.82
		1RB#24	24.04	24.19	24.02	22.90	23.27	23.03	21.97	22.21	22.41	18.87	19.35	18.78
		1RB#49	24.09	24.18	24.07	23.02	23.03	22.80	21.08	21.17	21.10	19.09	19.16	18.88
25	20	25RB#0	22.97	23.15	23.05	21.91	22.14	22.07	21.09	21.18	21.09	19.09	19.17	19.12
		25RB#12	22.99	23.12	23.06	21.97	22.13	22.08	21.10	21.15	21.12	19.06	19.18	19.17
		25RB#25	23.02	23.13	23.08	21.96	22.14	22.07	21.07	21.17	21.13	19.09	19.16	19.14
		50RB#0	23.01	23.16	23.07	21.99	22.13	22.04	21.09	21.16	21.10	19.15	19.17	19.06
		Bandwidth	26115	26365	26615	26115	26365	26615	26115	26365	26615	26115	26365	26615
		RB	1857.5 MHz	1882.5 MHz	1907.5 MHz	1857.5 MHz	1882.5 MHz	1907.5 MHz	1857.5 MHz	1882.5 MHz	1907.5 MHz	1857.5 MHz	1882.5 MHz	1907.5 MHz
25	30	1RB#0	23.98	24.05	23.98	22.95	23.22	22.74	21.85	22.27	22.17	19.16	19.25	18.72
		1RB#38	24.06	24.15	24.01	22.92	23.22	22.98	21.95	22.28	22.35	18.92	19.41	18.74
		1RB#74	24.04	24.04	24.03	23.03	23.15	22.83	21.07	21.16	21.06	19.14	19.18	18.80
		38RB#0	22.97	23.11	23.02	22.95	23.10	23.01	21.07	21.19	21.05	21.07	21.18	21.06
		38RB#18	22.91	23.06	22.98	21.93	22.09	21.98	21.09	21.14	21.04	19.08	19.11	19.07
		38RB#37	22.98	23.10	23.02	22.97	23.09	23.01	21.07	21.07	21.07	21.09	21.08	21.06
25	40	75RB#0	22.95	23.09	23.00	21.95	22.12	22.04	21.08	21.09	21.08	19.11	19.14	19.05
		Bandwidth	26140	26365	26590	26140	26365	26590	26140	26365	26590	26140	26365	26590
		RB	1860 MHz	1882.5 MHz	1905 MHz	1860 MHz	1882.5 MHz	1905 MHz	1860 MHz	1882.5 MHz	1905 MHz	1860 MHz	1882.5 MHz	1905 MHz
		1RB#0	24.04	24.16	23.94	22.93	23.33	22.81	22.55	22.40	22.27	19.14	19.49	19.29
		1RB#49	23.98	24.23	24.03	23.10	23.31	22.82	22.12	22.49	22.31	19.20	19.50	19.32
		1RB#99	24.20	24.09	23.99	23.01	23.27	23.02	21.07	21.21	21.11	19.18	19.44	19.42
25	50	50RB#0	23.01	23.20	22.98	21.96	22.17	21.99	21.04	21.22	21.10	19.04	19.21	19.01
		50RB#25	23.02	23.14	22.99	22.00	22.15	21.99	21.09	21.20	21.05	19.08	19.15	19.03
		50RB#50	23.04	23.13	23.08	22.02	22.14	22.14	21.03	21.12	21.04	19.10	19.12	19.04
		100RB#0	23.02	23.13	23.00	21.99	22.13	22.02	21.07	21.15	21.03	19.05	19.14	19.03

Antenna 1

5G NR n25		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz		
Channel				3705 00	3765 00	3825 00	3710 00	3765 00	3820 00	3715 00	3765 00	3815 00	3720 00	3765 00	3810 00
Frequency (MHz)				1852. 5	1882. 5	1912. 5	1855	1882. 5	1910	1857. 5	1882. 5	1907. 5	1860	1882. 5	1905
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.99	23.94	23.80	24.03	23.97	23.67	24.00	23.93	23.54	23.99	23.92	23.58
	$\pi/2$ BPSK	1	Right	24.04	23.89	23.71	24.02	23.86	23.74	23.95	23.80	23.73	23.93	23.81	23.75
	$\pi/2$ BPSK	Innter_Full	Mid	24.13	24.03	23.92	24.11	24.05	23.88	24.05	24.02	23.81	24.09	24.03	23.81
	QPSK	1	Left	24.10	24.00	23.80	24.06	23.91	23.65	24.00	23.91	23.62	23.96	23.93	23.58
	QPSK	1	Right	24.09	23.89	23.77	24.02	23.89	23.70	23.99	23.82	23.80	23.98	23.75	23.79
	QPSK	Innter_Full	Mid	24.10	24.08	23.96	24.08	24.01	23.85	24.10	23.99	23.82	24.15	24.06	23.80
	16QAM	1	Left	23.06	23.27	22.89	23.33	23.29	22.71	23.06	22.99	22.94	23.06	23.02	22.91
	16QAM	1	Right	23.36	23.17	22.94	23.10	23.16	22.96	23.08	23.11	23.15	23.29	22.79	23.09
	16QAM	Innter_Full	Mid	23.02	22.94	22.83	23.10	23.07	22.90	23.08	23.04	22.85	23.08	23.03	22.81
	64QAM	1	Left	21.45	21.74	21.71	21.48	21.72	21.56	21.48	21.36	21.63	21.47	21.77	21.63
	64QAM	1	Right	21.50	21.65	21.60	21.58	21.31	21.27	21.81	21.61	21.72	21.76	21.30	21.86
	64QAM	Innter_Full	Mid	21.71	21.61	21.48	21.65	21.60	21.41	21.64	21.57	21.35	21.62	21.53	21.31
CP-OFDM	256QAM	1	Left	19.79	19.71	19.49	19.65	19.72	19.51	19.78	19.53	19.46	19.57	19.72	19.50
	256QAM	1	Right	19.81	19.68	19.68	19.66	19.47	19.53	19.77	19.43	19.62	19.59	19.66	19.71
	256QAM	Innter_Full	Mid	19.75	19.65	19.56	19.65	19.55	19.43	19.65	19.55	19.39	19.60	19.59	19.34
	QPSK	1	Left	22.77	22.69	22.42	22.58	22.69	22.47	22.53	22.77	22.45	22.52	22.71	22.32
	QPSK	1	Right	22.83	22.67	22.59	22.62	22.62	22.56	22.58	22.29	22.48	22.55	22.35	22.53
	QPSK	Innter_Full	Mid	22.52	22.42	22.33	22.53	22.43	22.28	22.54	22.52	22.31	22.55	22.50	22.29
	16QAM	1	Left	22.06	22.10	21.94	22.18	22.18	21.73	22.10	22.05	21.67	22.16	22.14	21.43
	16QAM	1	Right	22.11	22.13	21.70	22.15	22.01	21.69	22.03	21.95	21.59	22.15	21.97	21.86
	16QAM	Innter_Full	Mid	22.08	22.04	21.89	22.02	21.95	21.85	22.08	22.01	21.81	22.06	21.97	21.81
	64QAM	1	Left	20.67	20.43	20.45	20.57	20.63	20.31	20.62	20.49	20.61	20.61	20.60	20.24
	64QAM	1	Right	20.51	20.41	20.38	20.73	20.43	20.60	20.71	20.35	20.43	20.60	20.39	20.88
	64QAM	Innter_Full	Mid	20.73	20.64	20.49	20.57	20.49	20.41	20.60	20.55	20.33	20.59	20.58	20.35
	256QAM	1	Left	17.36	17.35	17.23	17.66	17.63	17.40	17.39	17.34	17.32	17.63	17.36	17.32
	256QAM	1	Right	17.67	17.55	17.21	17.52	17.59	17.34	17.65	17.24	17.56	17.47	17.29	17.58
	256QAM	Innter_Full	Mid	17.67	17.59	17.49	17.60	17.48	17.41	17.63	17.57	17.36	17.62	17.54	17.33

Antenna 4

5G NR n25		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz		
Channel				37050 0	37650 0	38250 0	37100 0	37650 0	38200 0	37150 0	37650 0	38150 0	37200 0	37650 0	38100 0
Frequency (MHz)				1852.5	1882.5	1912.5	1855	1882.5	1910	1857.5	1882.5	1907.5	1860	1882.5	1905
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.81	23.89	23.51	23.96	23.80	23.45	23.97	23.77	23.41	23.84	23.70	23.41
	$\pi/2$ BPSK	1	Right	23.85	23.78	23.68	23.75	23.64	23.48	23.91	23.84	23.53	23.91	23.94	23.72
	$\pi/2$ BPSK	Innter_Full	Mid	23.77	23.93	23.64	23.87	23.83	23.78	23.96	23.88	23.73	24.04	23.81	23.94
	QPSK	1	Left	23.88	23.66	23.50	23.64	23.68	23.46	23.83	23.85	23.55	24.09	23.85	23.48
	QPSK	1	Right	23.73	23.48	23.77	23.96	23.72	23.72	23.66	23.48	23.52	23.88	23.58	23.72
	QPSK	Innter_Full	Mid	24.08	23.74	23.93	24.02	23.79	23.96	24.07	23.96	24.00	24.18	23.96	23.81
	16QAM	1	Left	22.81	23.05	22.64	22.74	22.85	22.83	22.89	22.87	22.89	22.96	22.95	22.98
	16QAM	1	Right	23.09	22.52	22.77	23.21	22.67	22.94	23.21	22.47	23.07	23.27	22.92	22.92
	16QAM	Innter_Full	Mid	22.98	22.96	22.66	22.93	23.06	22.71	22.88	22.76	22.61	22.86	23.01	22.89
	64QAM	1	Left	21.45	21.59	21.61	21.50	21.75	21.50	21.39	21.69	21.48	21.35	21.75	21.56
	64QAM	1	Right	21.63	21.22	21.68	21.73	21.10	21.69	21.49	21.12	21.83	21.78	21.23	21.64
	64QAM	Innter_Full	Mid	21.42	21.41	21.09	21.42	21.40	21.13	21.42	21.33	21.19	21.65	21.56	21.29
CP-OFDM	256QAM	1	Left	19.45	19.60	19.32	19.37	19.69	19.33	19.30	19.59	19.48	19.40	19.57	19.45
	256QAM	1	Right	19.57	19.58	19.69	19.57	19.54	19.49	19.27	19.63	19.54	19.44	19.79	19.64
	256QAM	Innter_Full	Mid	19.33	19.39	19.14	19.38	19.37	19.07	19.33	19.37	19.09	19.45	19.61	19.27
	QPSK	1	Left	22.55	22.53	22.00	22.20	22.39	22.20	22.39	22.58	22.30	22.55	22.74	22.34
	QPSK	1	Right	22.35	22.22	22.21	22.38	22.18	22.40	22.33	22.32	22.46	22.48	22.23	22.46
	QPSK	Innter_Full	Mid	22.58	22.42	21.97	22.33	22.18	22.19	22.30	22.38	22.14	22.68	22.40	22.42
	16QAM	1	Left	22.09	22.06	21.35	22.01	22.11	21.23	22.14	21.94	21.16	22.08	22.07	21.50
	16QAM	1	Right	22.07	21.75	21.74	21.95	21.84	21.83	21.97	21.89	21.54	21.93	21.95	21.71
	16QAM	Innter_Full	Mid	21.81	21.77	21.68	21.96	21.70	21.69	21.99	21.89	21.56	21.99	21.82	21.74
	64QAM	1	Left	20.44	20.28	20.22	20.54	20.42	20.07	20.51	20.63	20.11	20.44	20.55	20.22
	64QAM	1	Right	20.35	20.42	20.61	20.58	20.19	20.91	20.58	20.27	20.75	20.68	20.29	20.73
	64QAM	Innter_Full	Mid	20.57	20.55	20.03	20.32	20.55	20.20	20.51	20.40	20.33	20.72	20.41	20.27
	256QAM	1	Left	17.56	17.33	17.20	17.43	17.29	17.19	17.55	17.11	17.00	17.63	17.34	17.39
	256QAM	1	Right	17.29	17.19	17.33	17.39	17.02	17.31	17.35	17.12	17.48	17.55	17.12	17.58
	256QAM	Innter_Full	Mid	17.47	17.42	17.31	17.65	17.36	17.23	17.42	17.37	17.08	17.54	17.44	17.21

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UTTR-RF-FCC4G-V1.1

5.2.9 LTE Band 26 and 5G NR n26 Part 90S

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	26697	26740	26783	26697	26740	26783	26697	26740	26783	26697	26740	26783
	(MHz)		814.7 MHz	819 MHz	823.3 MHz	814.7 MHz	819 MHz	823.3 MHz	814.7 MHz	819 MHz	823.3 MHz	814.7 MHz	819 MHz	823.3 MHz
26	1.4	1RB#0	24.13	24.17	24.15	23.05	22.97	23.06	22.79	22.76	22.64	19.37	19.35	19.19
		1RB#2	24.18	24.13	24.14	23.33	23.09	23.32	23.83	22.63	22.72	19.08	19.42	19.36
		1RB#5	24.20	24.15	24.15	23.10	22.94	23.07	21.29	21.39	21.40	19.18	19.38	19.33
		3RB#0	24.09	24.15	24.10	22.99	22.96	23.00	21.30	21.39	21.39	19.32	19.38	19.38
		3RB#1	24.00	24.10	23.98	23.11	23.06	23.09	22.51	22.53	22.54	19.30	19.30	19.43
		3RB#3	24.11	24.12	24.05	23.03	22.90	22.99	21.33	21.44	21.38	19.30	19.28	19.37
		6RB#0	23.20	23.16	23.17	22.05	22.14	22.02	21.32	21.42	21.39	19.44	19.54	19.39
26	3	1RB#0	24.17	24.20	24.12	23.19	23.07	22.98	22.35	22.30	22.80	19.59	19.49	19.17
		1RB#8	24.13	24.12	24.06	23.09	23.28	23.16	22.36	22.46	22.77	19.11	19.62	19.19
		1RB#14	24.21	24.18	24.08	23.18	23.03	22.97	21.35	21.53	21.41	19.17	19.45	19.17
		8RB#0	23.22	23.22	23.29	22.22	22.19	22.28	21.39	21.48	21.39	19.57	19.43	19.60
		8RB#4	23.20	23.19	23.26	22.22	22.14	22.14	21.44	21.36	21.43	19.53	19.43	19.52
		8RB#7	23.24	23.18	23.28	22.22	22.18	22.28	21.38	21.50	21.37	19.59	19.40	19.59
		15RB#0	23.24	23.20	23.25	22.23	22.10	22.15	21.37	21.50	21.38	19.46	19.45	19.46
26	5	1RB#0	24.28	24.32	24.31	23.29	23.32	23.19	22.44	23.00	22.73	19.84	19.72	19.58
		1RB#12	24.28	24.16	24.21	23.21	23.30	23.35	22.52	22.95	22.65	19.96	19.81	19.69
		1RB#24	24.26	24.27	24.28	23.27	23.35	23.18	21.61	21.50	21.59	19.88	19.78	19.67
		12RB#0	23.28	23.27	23.26	22.28	22.33	22.30	21.63	21.50	21.59	19.57	19.58	19.59
		12RB#6	23.27	23.27	23.29	22.26	22.33	22.25	21.62	21.56	21.59	19.56	19.52	19.54
		12RB#13	23.30	23.25	23.26	22.25	22.32	22.28	21.64	21.51	21.60	19.50	19.57	19.59
		25RB#0	23.30	23.31	23.32	22.27	22.26	22.34	21.66	21.51	21.61	19.59	19.56	19.59
26	10	1RB#0	24.26	24.27	24.24	23.31	23.15	23.31	21.58	21.57	21.56	19.58	19.56	19.58
		1RB#24	24.27	24.24	24.24	23.31	23.15	23.31	21.58	21.57	21.56	19.58	19.56	19.58
		1RB#49	24.24	24.24	24.24	23.31	23.15	23.31	21.58	21.57	21.56	19.58	19.56	19.58
		25RB#0	23.31	23.28	23.28	22.26	22.26	22.26	21.56	21.56	21.56	19.56	19.56	19.56
		25RB#12	23.28	23.28	23.28	22.26	22.26	22.26	21.56	21.56	21.56	19.56	19.56	19.56
		25RB#25	23.30	23.30	23.30	22.26	22.26	22.26	21.56	21.56	21.56	19.56	19.56	19.56
		50RB#0	23.30	23.30	23.30	22.26	22.26	22.26	21.56	21.56	21.56	19.56	19.56	19.56
26	15	1RB#0	24.27	24.24	24.24	23.21	23.21	23.21	21.56	21.56	21.56	19.58	19.58	19.58
		1RB#38	24.24	24.24	24.24	23.21	23.21	23.21	21.56	21.56	21.56	19.58	19.58	19.58
		1RB#74	24.24	24.24	24.24	23.21	23.21	23.21	21.56	21.56	21.56	19.58	19.58	19.58
		38RB#0	23.26	23.26	23.26	22.26	22.26	22.26	21.56	21.56	21.56	19.56	19.56	19.56
		38RB#18	23.23	23.23	23.23	22.26	22.26	22.26	21.56	21.56	21.56	19.56	19.56	19.56
		38RB#37	23.26	23.26	23.26	22.26	22.26	22.26	21.56	21.56	21.56	19.56	19.56	19.56
		75RB#0	23.26	23.26	23.26	22.26	22.26	22.26	21.56	21.56	21.56	19.56	19.56	19.56

5G NR n26		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz		15MHz BW SCS = 15kHz	20MHz BW SCS = 15kHz
Channel				1633 00	1638 00	1643 00	N/A	1638 00	N/A	N/A
Frequency (MHz)				816.5	819	821.5		819		
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.90	23.97	23.97		23.89		
	$\pi/2$ BPSK	1	Right	23.99	23.97	23.95		23.98		
	$\pi/2$ BPSK	Innter_Full	Mid	23.60	24.08	24.11		24.09		
	QPSK	1	Left	23.95	24.04	24.00		23.94		
	QPSK	1	Right	24.02	24.00	24.01		23.99		
	QPSK	Innter_Full	Mid	24.07	24.16	24.12		24.16		
	16QAM	1	Left	23.12	23.34	23.37		23.08		
	16QAM	1	Right	23.38	23.10	23.38		23.34		
	16QAM	Innter_Full	Mid	23.19	23.21	23.22		23.25		
	64QAM	1	Left	21.57	21.56	21.90		21.80		
	64QAM	1	Right	21.58	21.85	21.82		21.81		
	64QAM	Innter_Full	Mid	21.73	21.78	21.75		21.77		
	256QAM	1	Left	19.58	19.62	19.63		19.74		
	256QAM	1	Right	19.76	19.62	19.77		19.62		
	256QAM	Innter_Full	Mid	19.66	19.81	19.80		19.69		
CP-OFDM	QPSK	1	Left	22.57	22.80	22.60	N/A	22.78	N/A	N/A
	QPSK	1	Right	22.90	22.64	22.83		22.63		
	QPSK	Innter_Full	Mid	22.62	22.63	22.61		22.67		
	16QAM	1	Left	22.11	22.05	22.21		22.11		
	16QAM	1	Right	22.10	22.24	22.05		22.07		
	16QAM	Innter_Full	Mid	22.18	22.28	22.23		22.13		
	64QAM	1	Left	20.56	20.55	20.55		20.66		
	64QAM	1	Right	20.78	20.59	20.73		20.76		
	64QAM	Innter_Full	Mid	20.67	20.71	20.77		20.70		
	256QAM	1	Left	17.57	17.41	17.60		17.40		
	256QAM	1	Right	17.60	17.61	17.62		17.64		
	256QAM	Innter_Full	Mid	17.60	17.66	17.67		17.61		

5.2.10 LTE Band 26 and 5G NR n26 Part 22

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	26797	26915	27033	26797	26915	27033	26797	26915	27033	26797	26915	27033
	(MHz)		824.7 MHz	836.5 MHz	848.3 MHz	824.7 MHz	836.5 MHz	848.3 MHz	824.7 MHz	836.5 MHz	848.3 MHz	824.7 MHz	836.5 MHz	848.3 MHz
26	1.4	1RB#0	24.03	24.16	24.01	23.12	22.98	23.01	22.72	22.73	22.69	19.37	19.37	19.26
		1RB#2	24.14	24.16	24.08	23.21	23.10	23.12	22.64	22.59	22.51	19.38	19.38	19.30
		1RB#5	24.07	24.12	24.00	23.06	22.95	22.98	21.41	21.35	21.28	19.41	19.40	19.21
		3RB#0	23.99	24.10	23.94	23.00	22.96	22.89	21.38	21.38	21.28	19.39	19.35	19.29
		3RB#1	24.02	24.11	24.01	23.08	23.07	22.98	22.51	22.53	22.45	19.43	19.43	19.36
		3RB#3	23.97	24.11	23.92	22.96	22.92	22.82	21.37	21.36	21.30	19.39	19.34	19.27
		6RB#0	23.18	23.14	23.10	22.17	22.12	22.11	21.38	21.38	21.32	19.38	19.39	19.28
Band	Bandwidth	RB	27025	26915	26805	27025	26915	26805	27025	26915	26805	27025	26915	26805
	(MHz)		825.5 MHz	836.5 MHz	847.5 MHz	825.5 MHz	836.5 MHz	847.5 MHz	825.5 MHz	836.5 MHz	847.5 MHz	825.5 MHz	836.5 MHz	847.5 MHz
26	3	1RB#0	24.15	24.17	24.03	23.21	23.05	22.91	22.36	22.29	22.26	19.49	19.53	19.49
		1RB#8	24.18	24.10	24.01	23.10	23.32	23.07	22.39	22.37	22.41	19.37	19.35	19.58
		1RB#14	24.29	24.19	24.06	23.11	23.01	22.83	21.43	21.38	21.39	19.46	19.48	19.36
		8RB#0	23.23	23.22	23.22	22.25	22.22	22.21	21.44	21.39	21.44	19.46	19.48	19.38
		8RB#4	23.18	23.19	23.15	22.17	22.12	22.05	21.49	21.50	21.32	19.47	19.48	19.38
		8RB#7	23.19	23.16	23.14	22.19	22.18	22.13	21.43	21.39	21.42	19.54	19.43	19.32
		15RB#0	23.20	23.23	23.14	22.23	22.09	22.04	21.34	21.41	21.43	19.48	19.51	19.38
Band	Bandwidth	RB	27015	26915	26815	27015	26915	26815	27015	26915	26815	27015	26915	26815
	(MHz)		826.5 MHz	836.5 MHz	846.5 MHz	826.5 MHz	836.5 MHz	846.5 MHz	826.5 MHz	836.5 MHz	846.5 MHz	826.5 MHz	836.5 MHz	846.5 MHz
26	5	1RB#0	24.21	24.27	24.21	23.26	23.35	23.14	22.41	22.98	22.64	19.84	19.67	19.57
		1RB#12	24.24	24.21	24.19	23.20	23.33	23.25	22.46	22.95	22.57	19.94	19.77	19.66
		1RB#24	24.23	24.25	24.21	23.32	23.33	23.11	21.66	21.47	21.49	19.88	19.70	19.47
		12RB#0	23.26	23.23	23.27	22.27	22.34	22.25	21.67	21.48	21.49	19.57	19.57	19.53
		12RB#6	23.23	23.24	23.23	22.24	22.32	22.21	21.61	21.60	21.54	19.50	19.55	19.47
		12RB#13	23.24	23.19	23.17	22.25	22.28	22.16	21.66	21.48	21.48	19.50	19.54	19.45
		25RB#0	23.31	23.28	23.25	22.30	22.23	22.25	21.63	21.47	21.48	19.56	19.53	19.51
Band	Bandwidth	RB	26990	26915	26840	26990	26915	26840	26990	26915	26840	26990	26915	26840
	(MHz)		829 MHz	836.5 MHz	844 MHz	829 MHz	836.5 MHz	844 MHz	829 MHz	836.5 MHz	844 MHz	829 MHz	836.5 MHz	844 MHz
26	10	1RB#0	24.24	24.32	24.25	23.28	23.21	23.03	22.40	22.45	22.65	19.59	19.60	19.19
		1RB#24	24.22	24.27	24.14	23.24	23.36	23.17	22.48	22.56	22.74	19.37	19.75	19.05
		1RB#49	24.23	24.26	24.11	23.26	23.11	22.93	21.51	21.52	21.44	19.52	19.49	19.13
		25RB#0	23.27	23.29	23.22	22.24	22.29	22.26	21.52	21.54	21.44	19.56	19.57	19.51
		25RB#12	23.25	23.26	23.22	22.24	22.24	22.19	21.55	21.52	21.45	19.53	19.53	19.50
		25RB#25	23.25	23.26	23.20	22.23	22.28	22.21	21.51	21.53	21.43	19.53	19.53	19.48
		50RB#0	23.27	23.25	23.20	22.26	22.25	22.19	21.51	21.51	21.42	19.56	19.55	19.40
Band	Bandwidth	RB	26865	26915	26965	26865	26915	26965	26865	26915	26965	26865	26915	26965
	(MHz)		831.5 MHz	836.5 MHz	841.5 MHz	831.5 MHz	836.5 MHz	841.5 MHz	831.5 MHz	836.5 MHz	841.5 MHz	831.5 MHz	836.5 MHz	841.5 MHz
26	15	1RB#0	24.25	24.21	24.24	23.24	23.41	23.02	22.15	22.71	22.68	19.64	19.67	19.18
		1RB#38	24.32	24.24	24.21	23.20	23.32	23.18	22.44	22.70	22.76	19.54	19.94	19.17
		1RB#74	24.25	24.10	24.13	23.23	23.29	22.94	21.55	21.56	21.52	19.51	19.59	19.12
		38RB#0	23.26	23.26	23.21	23.26	23.28	23.21	21.57	21.56	21.49	19.55	19.55	19.51
		38RB#18	23.26	23.25	23.19	22.26	22.27	22.21	21.59	21.52	21.47	19.56	19.53	19.51
		38RB#37	23.26	23.25	23.25	23.25	23.24	23.22	21.59	21.47	21.52	19.56	19.53	19.51
		75RB#0	23.27	23.26	23.22	22.24	22.27	22.22	21.59	21.49	21.52	19.59	19.55	19.49

5G NR n26		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz		
Channel				1653 00	1673 00	1693 00	1658 00	1673 00	1688 00	1663 00	1673 00	1683 00	1668 00	1673 00	1678 00
Frequency (MHz)				826.5	836.5	846.5	829	836.5	844	831.5	836.5	841.5	834	836.5	839
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.95	24.00	23.95	23.94	23.97	24.02	23.94	23.89	23.99	23.93	23.90	23.86
	$\pi/2$ BPSK	1	Right	23.92	23.97	23.94	24.00	23.98	23.98	23.98	23.97	23.97	23.93	23.92	23.97
	$\pi/2$ BPSK	Innter_Full	Mid	23.59	24.13	24.09	24.05	24.09	24.05	24.11	24.09	24.06	24.16	24.17	24.09
	QPSK	1	Left	24.00	24.03	24.03	23.99	24.00	24.03	23.94	23.96	23.99	23.98	23.94	23.90
	QPSK	1	Right	23.93	24.04	23.93	24.07	24.01	23.97	24.02	24.00	23.94	23.95	23.91	24.00
	QPSK	Innter_Full	Mid	24.13	24.11	24.11	24.08	24.07	24.09	24.11	24.12	24.07	24.18	24.16	24.13
	16QAM	1	Left	23.17	23.51	23.34	23.12	23.23	23.38	23.09	23.32	23.35	23.33	23.33	23.28
	16QAM	1	Right	23.17	23.17	23.30	23.43	23.37	23.33	23.10	23.22	23.26	23.11	23.35	23.22
	16QAM	Innter_Full	Mid	23.26	23.27	23.17	23.19	23.24	23.27	23.20	23.18	23.24	23.26	23.25	23.22
	64QAM	1	Left	21.89	21.90	21.85	21.81	21.69	21.56	21.55	21.79	21.55	21.55	21.83	21.77
	64QAM	1	Right	21.62	21.91	21.78	21.90	21.56	21.55	21.48	21.82	21.74	21.83	21.80	22.01
	64QAM	Innter_Full	Mid	21.83	21.80	21.78	21.77	21.78	21.80	21.69	21.74	21.76	21.76	21.72	21.73
	256QAM	1	Left	19.62	19.89	19.79	19.63	19.69	19.62	19.69	19.73	19.61	19.58	19.73	19.85
	256QAM	1	Right	19.81	19.62	19.79	19.83	19.80	19.78	19.72	19.72	19.69	19.60	19.80	19.72
	256QAM	Innter_Full	Mid	19.78	19.71	19.74	19.65	19.68	19.68	19.70	19.68	19.71	19.67	19.67	19.74
CP-OFDM	QPSK	1	Left	22.63	22.72	22.60	22.54	22.76	22.91	22.52	22.65	22.89	22.90	22.74	22.75
	QPSK	1	Right	22.80	22.71	22.86	22.61	22.93	22.85	22.51	22.82	22.49	22.88	22.75	22.82
	QPSK	Innter_Full	Mid	22.67	22.65	22.60	22.61	22.63	22.63	22.66	22.70	22.68	22.69	22.68	22.71
	16QAM	1	Left	22.18	22.24	22.18	22.17	22.18	22.19	22.00	21.72	22.15	22.01	21.75	21.71
	16QAM	1	Right	22.18	22.25	22.04	22.17	22.05	22.23	22.12	22.12	22.16	22.09	22.11	22.14
	16QAM	Innter_Full	Mid	22.24	22.27	22.17	22.09	22.13	22.13	22.16	22.19	22.21	22.21	22.21	22.22
	64QAM	1	Left	20.55	20.75	20.58	20.72	20.79	20.66	20.62	20.98	20.60	20.55	20.61	20.95
	64QAM	1	Right	20.65	20.62	20.75	20.69	20.66	20.77	20.58	21.08	20.60	20.78	21.08	21.11
	64QAM	Innter_Full	Mid	20.70	20.70	20.78	20.70	20.65	20.67	20.72	20.69	20.72	20.73	20.70	20.73
	256QAM	1	Left	17.40	17.42	17.57	17.61	17.67	17.64	17.42	17.76	17.62	17.41	17.77	17.54
	256QAM	1	Right	17.40	17.63	17.39	17.56	17.71	17.48	17.58	17.82	17.55	17.51	17.64	17.65
	256QAM	Innter_Full	Mid	17.67	17.70	17.62	17.60	17.58	17.64	17.71	17.69	17.72	17.68	17.65	17.68

5.2.11 LTE Band 30

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth	RB	27685	27710	27735	27685	27710	27735
	(MHz)		2307.5 MHz	2310.0 MHz	2312.5 MHz	2307.5 MHz	2310.0 MHz	2312.5 MHz
30	5	1@0	23.55	23.74	23.71	22.62	22.78	22.94
		1@12	19.94	22.11	22.37	20.06	22.35	21.96
		1@24	19.99	20.15	20.25	19.96	20.14	20.32
		12@0	20.00	20.19	20.25	19.94	20.25	20.26
		12@7	20.44	20.64	20.78	20.40	20.64	20.86
		12@13	20.04	20.16	20.22	19.99	20.19	20.21
		25@0	19.96	20.11	20.35	20.01	20.26	20.27
Band	Bandwidth	RB	--	27710	--	--	27710	--
	(MHz)		--	2310.0 MHz	--	--	2310.0 MHz	--
30	10	1@0		23.84			22.76	
		1@25		21.89			21.90	
		1@49		18.02			17.95	
		25@0		20.19			17.95	
		25@12		20.23			20.15	
		25@25		20.07			17.94	
		50@0		17.93			18.01	

5.2.12 LTE Band 38 and 5G NR n38

Antenna 0

			Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	37775	38000	38225	37775	38000	38225	37775	38000	38225	37775	38000	38225
	(MHz)		2572.5 MHz	2595 MHz	2617.5 MHz	2572.5 MHz	2595 MHz	2617.5 MHz	2572.5 MHz	2595 MHz	2617.5 MHz	2572.5 MHz	2595 MHz	2617.5 MHz
38	5	1RB#0	23.64	23.57	23.64	22.93	22.93	22.80	23.19	22.93	22.92	23.16	22.92	22.91
		1RB#12	23.57	23.62	23.64	23.18	22.96	22.90	23.17	22.99	22.90	23.19	22.97	22.89
		1RB#24	23.68	23.65	23.65	22.96	22.88	22.83	23.23	22.91	22.96	23.22	22.90	22.97
		12RB#0	22.61	22.64	23.63	21.58	21.73	21.62	21.59	21.68	21.58	21.59	21.64	21.62
		12RB#6	22.58	22.63	22.66	21.60	21.64	21.58	21.57	21.61	21.57	21.58	21.62	21.62
		12RB#13	22.62	22.64	22.64	21.60	21.66	21.60	21.60	21.66	21.60	21.62	21.66	21.63
		25RB#0	22.65	22.65	22.65	21.61	21.65	21.67	21.59	21.60	21.68	21.56	21.60	21.68
Band	Bandwidth	RB	37800	38000	38200	37800	38000	38200	37800	38000	38200	37800	38000	38200
	(MHz)		2575 MHz	2595 MHz	2615 MHz	2575 MHz	2595 MHz	2615 MHz	2575 MHz	2595 MHz	2615 MHz	2575 MHz	2595 MHz	2615 MHz
38	10	1RB#0	23.60	23.65	23.73	22.94	22.64	22.65	23.14	22.71	22.78	23.12	22.70	22.79
		1RB#24	23.59	23.63	23.59	23.14	22.67	22.79	23.13	22.68	22.79	23.09	22.65	22.79
		1RB#49	23.64	23.68	23.72	23.01	22.62	22.72	23.19	22.68	22.84	23.18	22.61	22.84
		25RB#0	22.65	22.67	22.65	21.69	21.63	21.65	21.64	21.65	21.62	21.62	21.66	21.63
		25RB#12	22.67	22.66	22.62	21.65	21.64	21.62	21.63	21.68	21.63	21.63	21.65	21.63
		25RB#25	22.70	22.69	22.69	21.73	21.64	21.71	21.67	21.67	21.66	21.66	21.68	21.65
		50RB#0	22.67	22.66	22.67	21.62	21.63	21.62	21.64	21.63	21.69	21.64	21.63	21.66
Band	Bandwidth	RB	37825	38000	38175	37825	38000	38175	37825	38000	38175	37825	38000	38175
	(MHz)		2577.5 MHz	2595 MHz	2612.5 MHz	2577.5 MHz	2595 MHz	2612.5 MHz	2577.5 MHz	2595 MHz	2612.5 MHz	2577.5 MHz	2595 MHz	2612.5 MHz
38	15	1RB#0	23.60	23.61	23.66	22.91	22.74	22.64	23.10	22.88	22.77	23.08	22.89	22.77
		1RB#38	23.64	23.70	23.70	23.14	22.92	22.79	23.10	22.92	22.78	23.09	22.93	22.73
		1RB#74	23.71	23.71	23.72	22.98	22.66	22.71	23.17	22.80	22.87	23.18	22.82	22.82
		38RB#0	22.57	22.61	22.62	21.63	21.61	21.72	21.63	21.57	21.69	21.61	21.57	21.68
		38RB#18	22.59	22.64	22.60	21.65	21.63	21.70	21.64	21.59	21.68	21.64	21.60	21.69
		38RB#37	22.59	22.62	22.64	21.65	21.60	21.72	21.62	21.59	21.69	21.65	21.59	21.69
		75RB#0	22.59	22.62	22.65	21.59	21.63	21.63	21.59	21.63	21.60	21.59	21.66	21.59
Band	Bandwidth	RB	37850	38000	38150	37850	38000	38150	37850	38000	38150	37850	38000	38150
	(MHz)		2580 MHz	2595 MHz	2610 MHz	2580 MHz	2595 MHz	2610 MHz	2580 MHz	2595 MHz	2610 MHz	2580 MHz	2595 MHz	2610 MHz
38	20	1RB#0	23.59	23.64	23.53	22.92	22.86	22.91	22.82	22.78	22.80	22.80	22.78	22.84
		1RB#49	23.59	23.61	23.64	22.35	22.57	22.80	22.85	22.85	22.90	22.85	22.85	22.89
		1RB#99	23.63	23.66	23.61	21.63	21.59	21.58	22.90	22.78	22.91	22.90	22.76	22.92
		50RB#0	22.61	22.62	22.57	21.64	21.61	21.64	21.63	21.61	21.64	21.62	21.58	21.61
		50RB#25	22.59	22.58	22.55	21.66	21.63	21.64	21.67	21.58	21.64	21.63	21.54	21.62
		50RB#50	22.62	22.61	22.61	21.61	21.62	21.56	21.66	21.60	21.64	21.65	21.60	21.61
		100RB#0	22.58	22.62	22.58	22.56	22.68	21.50	21.61	21.59	21.57	21.61	21.59	21.58

Antenna 4

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	37775	38000	38225	37775	38000	38225	37775	38000	38225	37775	38000	38225
	(MHz)		2572.5 MHz	2595 MHz	2617.5 MHz	2572.5 MHz	2595 MHz	2617.5 MHz	2572.5 MHz	2595 MHz	2617.5 MHz	2572.5 MHz	2595 MHz	2617.5 MHz
38	5	1RB#0	23.50	23.60	23.64	22.60	22.56	22.75	21.97	21.98	21.49	18.60	18.62	18.35
		1RB#12	23.72	23.57	23.63	22.56	22.57	22.85	20.63	21.97	21.48	18.40	18.43	18.26
		1RB#24	23.49	23.59	23.68	22.63	22.57	22.77	20.63	20.61	20.56	18.63	18.57	18.44
		12RB#0	22.53	22.54	22.45	21.55	21.49	21.43	20.65	20.58	20.59	18.68	18.68	18.52
		12RB#6	22.52	22.45	22.43	21.52	21.40	21.42	20.83	20.77	20.55	18.66	18.62	18.57
		12RB#13	22.52	22.50	22.49	21.57	21.47	21.45	20.65	20.62	20.58	18.70	18.65	18.57
38	10	25RB#0	22.57	22.51	22.55	21.56	21.51	21.48	20.69	20.59	20.59	18.71	18.67	18.61
		Bandwidth	37800	38000	38200	37800	38000	38200	37800	38000	38200	37800	38000	38200
		RB	2575 MHz	2595 MHz	2615 MHz	2575 MHz	2595 MHz	2615 MHz	2575 MHz	2595 MHz	2615 MHz	2575 MHz	2595 MHz	2615 MHz
		1RB#0	23.74	23.62	23.62	22.67	22.24	22.47	21.91	21.38	21.97	18.62	18.37	18.85
		1RB#24	23.54	23.64	23.55	22.69	22.17	22.31	20.74	21.30	21.73	18.77	18.58	18.30
		1RB#49	23.72	23.57	23.70	22.71	22.26	22.44	20.74	20.58	20.58	18.67	18.31	18.77
38	15	25RB#0	22.54	22.51	22.52	21.57	21.46	21.52	20.70	20.60	20.59	18.72	18.66	18.62
		25RB#12	22.57	22.51	22.50	21.53	21.46	21.47	20.69	20.58	20.59	18.74	18.64	18.62
		25RB#25	22.59	22.50	22.48	21.61	21.45	21.48	20.74	20.57	20.61	18.74	18.64	18.56
		50RB#0	22.56	22.51	22.50	21.52	21.47	21.47	20.74	20.59	20.60	18.74	18.66	18.61
		Bandwidth	37825	38000	38175	37825	38000	38175	37825	38000	38175	37825	38000	38175
		RB	2577.5 MHz	2595 MHz	2612.5 MHz	2577.5 MHz	2595 MHz	2612.5 MHz	2577.5 MHz	2595 MHz	2612.5 MHz	2577.5 MHz	2595 MHz	2612.5 MHz
38	20	1RB#0	23.73	23.76	23.65	22.67	22.37	22.44	21.91	21.78	21.97	18.64	18.53	18.84
		1RB#38	23.62	23.66	23.58	22.70	22.43	22.44	20.74	22.06	21.87	18.86	18.63	18.46
		1RB#74	23.61	23.71	23.66	22.64	22.33	22.45	21.87	20.62	20.69	18.58	18.49	18.78
		38RB#0	22.52	22.49	22.49	22.49	22.48	22.51	20.74	20.62	20.72	20.75	20.63	20.70
		38RB#18	22.51	22.47	22.46	21.57	21.44	21.52	20.68	20.65	20.64	18.71	18.65	18.62
		38RB#37	22.50	22.48	22.49	22.51	22.49	22.50	20.69	20.65	20.64	20.68	20.64	20.64
38	25	75RB#0	22.51	22.48	22.49	21.56	21.51	21.49	20.68	20.65	20.63	18.74	18.64	18.64
		Bandwidth	37850	38000	38150	37850	38000	38150	37850	38000	38150	37850	38000	38150
		RB	2580 MHz	2595 MHz	2610 MHz	2580 MHz	2595 MHz	2610 MHz	2580 MHz	2595 MHz	2610 MHz	2580 MHz	2595 MHz	2610 MHz
		1RB#0	23.62	23.48	23.65	22.55	22.08	22.24	21.65	21.70	21.74	18.51	18.72	19.01
		1RB#49	23.61	23.78	23.62	22.55	22.55	22.50	20.72	21.68	21.88	18.38	18.70	18.88
		1RB#99	23.62	23.53	23.76	22.59	22.08	22.25	20.73	20.68	20.62	18.48	18.66	18.97
38	30	50RB#0	22.61	22.54	22.53	21.60	21.57	21.50	20.72	20.69	20.62	18.72	18.68	18.69
		50RB#25	22.57	22.51	22.54	21.61	21.54	21.51	20.71	20.75	20.66	18.71	19.01	18.68
		50RB#50	22.53	22.52	22.50	21.51	21.54	21.47	20.73	20.68	20.63	18.65	18.88	18.62
		100RB#0	22.55	22.52	22.52	21.53	21.50	21.50	20.72	20.69	20.64	18.72	18.97	18.63

Antenna 0

5G NR n38		RB Size	RB Offset	5MHz BW SCS = 30kHz	10MHz BW SCS = 30kHz			15MHz BW SCS = 30kHz			20MHz BW SCS = 30kHz		
Channel				N/A	51500 0	51900 0	52300 0	51550 0	51900 0	52250 0	51600 0	51900 0	52200 0
Frequency (MHz)					2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	N/A	22.98	23.08	23.17	23.10	23.12	23.08	23.06	23.01	23.18
	$\pi/2$ BPSK	1	Right		23.12	23.05	23.16	23.17	23.25	23.11	23.15	23.04	23.11
	$\pi/2$ BPSK	Innter_Full	Mid		23.18	23.24	23.36	23.32	23.40	23.34	23.36	23.35	23.29
	QPSK	1	Left		23.04	23.09	23.19	23.12	23.23	23.19	23.04	23.07	23.05
	QPSK	1	Right		23.00	23.12	23.16	22.99	23.14	23.11	22.99	23.11	23.18
	QPSK	Innter_Full	Mid		23.22	23.33	23.43	23.15	23.25	23.19	23.47	23.32	23.36
	16QAM	1	Left		22.39	22.48	22.23	22.44	22.48	22.31	22.29	22.13	22.10
	16QAM	1	Right		22.32	22.46	22.20	22.43	22.41	22.40	22.32	22.18	22.33
	16QAM	Innter_Full	Mid		22.15	22.15	22.24	22.27	22.27	22.19	22.26	22.23	22.28
	64QAM	1	Left		20.91	21.10	20.94	20.86	21.00	20.96	20.92	20.79	20.87
	64QAM	1	Right		20.78	20.92	20.94	20.89	21.08	21.11	20.82	20.99	20.91
	64QAM	Innter_Full	Mid		20.74	20.77	20.72	20.88	20.96	20.79	20.76	20.81	20.83
	256QAM	1	Left		18.79	18.79	18.80	18.81	18.84	18.86	18.84	18.75	18.77
	256QAM	1	Right		18.82	18.73	18.75	18.84	18.93	18.78	18.79	18.87	18.75
	256QAM	Innter_Full	Mid		18.97	18.95	18.93	18.74	18.84	18.80	18.76	18.73	18.66
CP-OFDM	QPSK	1	Left		21.91	22.07	21.82	21.88	21.86	22.00	21.91	22.03	21.75
	QPSK	1	Right		22.19	22.03	21.69	22.23	21.87	21.81	22.24	22.04	21.68
	QPSK	Innter_Full	Mid		21.57	21.64	21.59	21.83	21.55	21.65	21.66	21.58	21.62
	16QAM	1	Left		21.22	21.23	20.87	21.18	20.93	20.97	20.88	20.78	20.91
	16QAM	1	Right		21.21	21.11	21.04	20.86	21.00	21.29	20.98	21.21	20.91
	16QAM	Innter_Full	Mid		21.19	21.11	21.24	21.14	21.18	21.18	21.25	21.25	21.26
	64QAM	1	Left		19.94	19.56	19.52	19.59	20.06	20.13	19.49	19.42	19.41
	64QAM	1	Right		20.22	19.50	20.13	19.65	20.11	20.09	20.16	20.14	19.59
	64QAM	Innter_Full	Mid		19.79	19.78	19.74	19.82	19.86	19.78	19.83	19.67	19.84
	256QAM	1	Left		16.75	16.74	16.63	16.81	16.89	17.02	16.77	16.55	16.62
	256QAM	1	Right		16.92	16.87	16.78	16.79	16.72	16.73	16.81	16.76	16.76
	256QAM	Innter_Full	Mid		16.73	16.69	16.89	16.80	16.86	16.76	16.70	16.69	16.68

Antenna 4

5G NR n38		RB Size	RB Offset	5MHz BW SCS = 30kHz	10MHz BW SCS = 30kHz			15MHz BW SCS = 30kHz			20MHz BW SCS = 30kHz		
Channel				N/A	51500 0	51900 0	52300 0	51550 0	51900 0	52250 0	51600 0	51900 0	52200 0
Frequency (MHz)					2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	N/A	23.32	23.37	23.47	23.39	23.41	23.44	23.39	23.44	23.52
	$\pi/2$ BPSK	1	Right		23.41	23.39	23.45	23.43	23.51	23.45	23.46	23.45	23.47
	$\pi/2$ BPSK	Innter_Full	Mid		23.50	23.55	23.70	23.61	23.69	23.63	23.69	23.69	23.72
	QPSK	1	Left		23.36	23.38	23.53	23.38	23.47	23.47	23.39	23.45	23.43
	QPSK	1	Right		23.34	23.39	23.46	23.32	23.38	23.42	23.35	23.52	23.49
	QPSK	Innter_Full	Mid		23.59	23.67	23.72	23.48	23.56	23.45	23.76	23.63	23.67
	16QAM	1	Left		22.76	22.82	22.55	22.77	22.74	22.57	22.60	22.56	22.53
	16QAM	1	Right		22.64	22.77	22.54	22.74	22.77	22.69	22.63	22.61	22.68
	16QAM	Innter_Full	Mid		22.47	22.51	22.51	22.58	22.58	22.50	22.62	22.59	22.59
	64QAM	1	Left		21.18	21.39	21.26	21.15	21.22	21.22	21.30	21.17	21.23
	64QAM	1	Right		21.10	21.29	21.26	21.18	21.37	21.35	21.25	21.35	21.27
	64QAM	Innter_Full	Mid		21.13	21.14	21.04	21.17	21.20	21.10	21.19	21.17	21.16
	256QAM	1	Left		19.15	19.10	19.10	19.05	19.18	19.12	19.22	19.18	19.13
	256QAM	1	Right		19.09	19.09	19.07	19.10	19.22	19.11	19.14	19.23	19.13
	256QAM	Innter_Full	Mid		19.26	19.31	19.22	19.03	19.08	19.02	19.07	19.02	19.01
CP-OFDM	QPSK	1	Left	22.23	22.41	22.14	22.22	22.19	22.26	22.29	22.43	22.11	
	QPSK	1	Right	22.48	22.39	22.03	22.45	22.13	22.10	22.55	22.33	21.97	
	QPSK	Innter_Full	Mid	21.91	21.96	21.98	22.12	21.86	21.98	21.97	21.89	21.98	
	16QAM	1	Left	21.51	21.57	21.18	21.47	21.17	21.26	21.17	21.18	21.25	
	16QAM	1	Right	21.50	21.48	21.36	21.17	21.29	21.60	21.31	21.61	21.26	
	16QAM	Innter_Full	Mid	21.51	21.45	21.55	21.38	21.49	21.52	21.61	21.61	21.62	
	64QAM	1	Left	20.33	19.88	19.83	19.81	20.37	20.42	19.84	19.82	19.82	
	64QAM	1	Right	20.47	19.84	20.40	19.91	20.42	20.36	20.51	20.48	19.90	
	64QAM	Innter_Full	Mid	20.15	20.10	20.08	20.11	20.12	20.04	20.16	20.08	20.19	
	256QAM	1	Left	17.02	17.03	17.02	17.07	17.15	17.24	17.10	16.96	16.95	
	256QAM	1	Right	17.28	17.19	17.07	17.03	17.03	16.99	17.16	17.07	17.09	
	256QAM	Innter_Full	Mid	17.10	17.01	17.20	17.11	17.14	17.10	17.10	17.07	17.09	

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UTTR-RF-FCC4G-V1.1

5.2.13 LTE Band 41, 41C and 5G NR n41

Antenna 0

			Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	39675	40620	41565	39675	40620	41565	39675	40620	41565	39675	40620	41565
	(MHz)		2498.5 MHz	2593 MHz	2687.5 MHz	2498.5 MHz	2593 MHz	2687.5 MHz	2498.5 MHz	2593 MHz	2687.5 MHz	2498.5 MHz	2593 MHz	2687.5 MHz
Band41	5MHz	1RB#0	23.62	23.49	23.51	22.87	22.67	22.72	23.17	22.75	22.77	23.17	22.75	22.77
		1RB#12	23.51	23.57	23.49	23.11	22.75	22.73	23.14	22.73	22.77	23.16	22.72	22.80
		1RB#24	23.62	23.49	23.52	22.88	22.66	22.73	23.17	22.73	22.79	23.16	22.72	22.79
		12RB#0	22.54	22.49	22.43	21.57	21.45	21.49	21.61	21.43	21.53	21.59	21.46	21.51
		12RB#6	22.58	22.46	22.46	21.52	21.43	21.47	21.59	21.41	21.52	21.58	21.35	21.47
		12RB#13	22.52	22.44	22.44	21.48	21.38	21.48	21.57	21.39	21.48	21.55	21.38	21.55
		25RB#0	22.58	22.47	22.48	21.58	21.45	21.48	21.57	21.48	21.47	21.61	21.50	21.48
Band	Bandwidth	RB	39700	40620	41540	39700	40620	41540	39700	40620	41540	39700	40620	41540
	(MHz)		2501 MHz	2593 MHz	2685 MHz	2501 MHz	2593 MHz	2685 MHz	2501 MHz	2593 MHz	2685 MHz	2501 MHz	2593 MHz	2685 MHz
Band41	10MHz	1RB#0	23.58	23.54	23.54	22.89	22.52	22.36	23.05	22.63	22.41	23.03	22.63	22.40
		1RB#24	23.57	23.54	23.53	23.00	22.65	22.48	22.97	22.67	22.45	22.93	22.68	22.45
		1RB#49	23.56	23.60	23.62	22.87	22.53	22.46	23.01	22.66	22.50	22.94	22.66	22.47
		25RB#0	22.59	22.52	22.45	21.65	21.52	21.44	21.52	21.48	21.44	21.53	21.48	21.42
		25RB#12	22.58	22.48	22.45	21.58	21.47	21.42	21.51	21.48	21.43	21.54	21.48	21.43
		25RB#25	22.57	22.50	22.48	21.63	21.50	21.46	21.50	21.48	21.44	21.51	21.48	21.46
		50RB#0	22.59	22.51	22.47	21.58	21.46	21.45	21.53	21.50	21.40	21.54	21.53	21.40
Band	Bandwidth	RB	39725	40620	41515	39725	40620	41515	39725	40620	41515	39725	40620	41515
	(MHz)		2503.5 MHz	2593 MHz	2682.5 MHz	2503.5 MHz	2593 MHz	2682.5 MHz	2503.5 MHz	2593 MHz	2682.5 MHz	2503.5 MHz	2593 MHz	2682.5 MHz
Band41	15MHz	1RB#0	23.46	23.53	23.49	22.89	22.51	22.48	22.99	22.67	22.63	23.04	22.66	22.61
		1RB#38	23.49	23.56	23.50	23.03	22.69	22.69	22.99	22.73	22.68	22.99	22.72	22.66
		1RB#74	23.45	23.56	23.56	22.90	22.52	22.60	22.97	22.67	22.72	23.01	22.69	22.73
		38RB#0	22.53	22.45	22.40	21.59	21.55	21.37	21.55	21.55	21.37	21.52	21.55	21.38
		38RB#18	22.52	22.46	22.48	21.57	21.55	21.42	21.52	21.54	21.40	21.53	21.53	21.40
		38RB#37	22.53	22.46	22.45	21.57	21.57	21.43	21.52	21.54	21.43	21.52	21.54	21.44
		75RB#0	22.54	22.47	22.45	21.56	21.45	21.46	21.49	21.45	21.47	21.48	21.46	21.47
Band	Bandwidth	RB	39750	40620	41490	39750	40620	41490	39750	40620	41490	39750	40620	41490
	(MHz)		2506 MHz	2593 MHz	2680 MHz	2506 MHz	2593 MHz	2680 MHz	2506 MHz	2593 MHz	2680 MHz	2506 MHz	2593 MHz	2680 MHz
Band41	20MHz	1RB#0	23.61	23.55	23.64	22.67	22.48	22.08	22.72	22.78	22.72	22.70	22.77	22.70
		1RB#49	23.64	23.61	23.56	22.71	22.72	22.66	22.69	22.80	22.73	22.69	22.78	22.74
		1RB#99	23.75	23.66	23.69	22.65	22.46	22.15	22.69	22.73	22.81	22.69	22.74	22.78
		50RB#0	22.48	22.49	22.38	21.63	21.49	21.41	21.51	21.54	21.43	21.50	21.55	21.45
		50RB#25	22.45	22.47	22.40	21.52	21.46	21.44	21.47	21.53	21.48	21.45	21.54	21.47
		50RB#50	22.54	22.47	22.41	21.47	21.43	21.48	21.47	21.50	21.47	21.46	21.51	21.49
		100RB#0	22.45	22.45	22.44	21.47	21.49	21.45	21.49	21.51	21.46	21.48	21.51	21.46

Antenna 4

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	39675	40620	41565	39675	40620	41565	39675	40620	41565	39675	40620	41565
	(MHz)		2498.5 MHz	2593 MHz	2687.5 MHz	2498.5 MHz	2593 MHz	2687.5 MHz	2498.5 MHz	2593 MHz	2687.5 MHz	2498.5 MHz	2593 MHz	2687.5 MHz
Band41	5MHz	1RB#0	23.24	23.15	23.30	22.31	22.24	22.65	21.63	21.60	21.23	18.24	18.47	18.08
		1RB#12	23.28	23.19	23.32	22.29	22.24	22.72	21.64	21.54	21.22	18.07	18.48	17.98
		1RB#24	23.29	23.15	23.38	22.28	22.29	22.67	20.29	20.35	20.28	18.30	18.53	18.09
		12RB#0	22.31	22.13	22.30	21.23	21.27	21.30	20.29	20.39	20.30	18.37	18.46	18.27
		12RB#6	22.28	22.12	22.36	21.17	21.16	21.27	20.47	20.34	20.29	18.30	18.35	18.29
		12RB#13	22.28	22.15	22.32	21.17	21.18	21.38	20.30	20.36	20.31	18.34	18.33	18.28
		25RB#0	22.28	22.18	22.36	21.24	21.15	21.29	20.34	20.36	20.29	18.36	18.35	18.34
Band	Bandwidth	RB	39700	40620	41540	39700	40620	41540	39700	40620	41540	39700	40620	41540
	(MHz)		2501 MHz	2593 MHz	2685 MHz	2501 MHz	2593 MHz	2685 MHz	2501 MHz	2593 MHz	2685 MHz	2501 MHz	2593 MHz	2685 MHz
Band41	10MHz	1RB#0	23.27	23.24	23.34	22.39	22.10	21.96	21.54	21.71	21.02	18.23	18.51	18.01
		1RB#24	23.20	23.13	23.20	22.31	22.08	21.88	21.71	21.51	20.89	18.38	18.12	18.05
		1RB#49	23.32	23.19	23.33	22.48	22.10	21.99	20.33	20.33	20.21	18.35	18.50	17.99
		25RB#0	22.23	22.20	22.28	21.27	21.16	21.27	20.35	20.32	20.23	18.35	18.34	18.26
		25RB#12	22.24	22.17	22.28	21.22	21.16	21.24	20.31	20.36	20.15	18.38	18.36	18.20
		25RB#25	22.26	22.12	22.26	21.25	21.10	21.25	20.36	20.32	20.20	18.37	18.29	18.23
		50RB#0	22.23	22.19	22.27	21.26	21.14	21.29	20.36	20.29	20.19	18.36	18.35	18.25
Band	Bandwidth	RB	39725	40620	41515	39725	40620	41515	39725	40620	41515	39725	40620	41515
	(MHz)		2503.5 MHz	2593 MHz	2682.5 MHz	2503.5 MHz	2593 MHz	2682.5 MHz	2503.5 MHz	2593 MHz	2682.5 MHz	2503.5 MHz	2593 MHz	2682.5 MHz
Band41	15MHz	1RB#0	23.24	23.18	23.36	22.43	22.10	22.15	21.51	21.46	21.53	18.28	18.25	18.22
		1RB#38	23.27	23.19	23.26	22.36	22.08	22.12	21.76	21.74	21.65	18.50	18.31	18.41
		1RB#74	23.31	23.20	23.38	22.51	22.08	22.11	20.37	20.34	20.26	18.37	18.20	18.24
		38RB#0	22.22	22.11	22.25	22.21	22.14	22.25	20.39	20.35	20.26	22.31	20.32	20.27
		38RB#18	22.19	22.14	22.26	21.23	21.19	21.18	20.31	20.34	20.23	18.30	18.35	18.28
		38RB#37	22.21	22.11	22.26	22.20	22.11	22.26	20.35	20.36	20.26	20.35	20.35	20.21
		75RB#0	22.21	22.12	22.25	21.27	21.15	21.29	20.33	20.35	20.19	18.31	18.35	18.32
Band	Bandwidth	RB	39750	40620	41490	39750	40620	41490	39750	40620	41490	39750	40620	41490
	(MHz)		2506 MHz	2593 MHz	2680 MHz	2506 MHz	2593 MHz	2680 MHz	2506 MHz	2593 MHz	2680 MHz	2506 MHz	2593 MHz	2680 MHz
Band41	20MHz	1RB#0	23.55	23.61	23.23	22.24	21.93	21.82	21.16	21.48	21.29	18.06	18.75	17.90
		1RB#49	23.66	23.51	23.29	22.31	22.15	22.24	21.31	21.61	21.24	18.04	18.60	18.31
		1RB#99	23.80	23.61	23.29	22.37	21.93	21.84	20.39	20.36	20.29	18.21	18.72	17.90
		50RB#0	22.57	22.47	22.31	21.29	21.18	21.32	20.38	20.36	20.31	18.33	18.41	18.31
		50RB#25	22.61	22.43	22.30	21.31	21.12	21.33	20.38	20.35	20.34	18.35	18.34	18.33
		50RB#50	22.63	22.43	22.26	21.35	21.11	21.29	20.38	20.38	20.31	18.42	18.35	18.30
		100RB#0	22.62	22.48	22.28	21.31	21.19	21.27	20.39	20.37	20.28	18.41	18.40	18.29

Band	BW (MHz)	RB Configuration	QPSK-QPSK			16QAM-16QAM		
Channel			39683-39800	40528-40645	41373-41490	39683-39800	40528-40645	41373-41490
41C	5+20	1RB#0-0RB#0	23.57	23.27	24.10	22.76	22.31	23.18
41C	5+20	1RB#0-1RB#99	14.90	16.48	17.21	15.15	14.82	15.52
41C	5+20	1RB#24-0RB#0	23.54	23.34	24.12	22.75	22.36	23.16
41C	5+20	8RB#0-0RB#0	23.50	23.27	24.10	22.49	22.28	23.06
41C	5+20	25RB#0-100RB#0	21.62	21.36	22.18	20.63	20.34	21.18
Channel			39703-39823	40549-40669	41395-41515	39703-39823	40549-40669	41395-41515
41C	10+15	1RB#0-0RB#0	23.52	23.24	24.14	22.27	21.96	22.80
41C	10+15	1RB#0-1RB#74	14.97	16.39	17.19	14.89	14.75	15.41
41C	10+15	1RB#49-0RB#0	23.49	23.32	24.14	22.45	22.06	22.85
41C	10+15	12RB#0-0RB#0	23.52	23.27	24.13	22.48	22.23	23.10
41C	10+15	50RB#0-75RB#0	21.57	21.35	22.15	20.54	20.31	21.15
Channel			39705-39849	40526-40670	41346-41490	39705-39849	40526-40670	41346-41490
41C	10+20	1RB#0-0RB#0	23.57	23.24	24.08	22.72	21.94	22.75
41C	10+20	1RB#0-1RB#99	14.89	16.33	17.07	14.80	14.66	15.40
41C	10+20	1RB#49-0RB#0	23.42	23.23	24.03	22.39	21.95	22.74
41C	10+20	12RB#0-0RB#0	23.50	23.27	24.01	22.43	22.19	22.98
41C	10+20	50RB#0-100RB#0	21.49	21.28	22.03	20.46	20.27	21.03
Channel			39725-39845	40571-40691	41417-41537	39725-39845	40571-40691	41417-41537

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Band	BW (MHz)	RB Configuration	QPSK-QPSK			16QAM-16QAM		
41C	15+10	1RB#0-0RB#0	23.58	23.32	24.11	22.38	22.05	22.93
41C	15+10	1RB#0-1RB#49	14.91	16.37	17.13	14.84	14.69	15.45
41C	15+10	1RB#74-0RB#0	23.50	23.43	24.16	22.42	22.16	22.89
41C	15+10	16RB#0-0RB#0	22.52	22.22	23.08	21.55	21.21	22.14
41C	15+10	75RB#0-50RB#0	21.46	21.33	22.09	20.44	20.34	21.08
Channel			39725-39875	40545-40695	41365-41515	39725-39875	40545-40695	41365-41515
41C	15+15	1RB#0-0RB#0	23.60	23.38	24.22	22.73	22.14	22.98
41C	15+15	1RB#0-1RB#74	14.92	16.36	17.13	15.16	14.70	15.44
41C	15+15	1RB#74-0RB#0	23.48	23.41	24.22	22.65	22.15	22.94
41C	15+15	16RB#0-0RB#0	23.62	23.29	24.08	22.65	22.26	23.06
41C	15+15	75RB#0-75RB#0	21.46	21.30	22.09	20.45	20.35	21.08
Channel			39728-39899	40523-40694	41319-41490	39728-39899	40523-40694	41319-41490
41C	15+20	1RB#0-0RB#0	23.65	23.32	24.21	22.46	22.12	22.96
41C	15+20	1RB#0-1RB#99	14.84	16.37	17.10	14.83	14.78	15.42
41C	15+20	1RB#74-0RB#0	23.58	23.39	24.21	22.40	22.15	22.98
41C	15+20	16RB#0-0RB#0	23.58	23.30	24.07	22.65	22.26	23.08
41C	15+20	75RB#0-100RB#0	21.47	21.37	22.09	20.44	20.34	21.08
Channel			39750-39867	40595-40712	41440-41557	39750-39867	40595-40712	41440-41557
41C	20+5	1RB#0-0RB#0	23.47	23.12	24.02	22.50	21.77	22.65
41C	20+5	1RB#0-1RB#24	15.02	16.33	17.11	14.76	14.58	15.30
41C	20+5	1RB#99-0RB#0	23.38	23.22	23.89	22.09	21.85	22.52
41C	20+5	18RB#0-0RB#0	22.47	22.19	23.03	21.46	21.18	22.00
41C	20+5	100RB#0-25RB#0	21.48	21.32	22.04	20.46	20.35	21.08
Channel			39750-39894	40571-40715	41391-41535	39750-39894	40571-40715	41391-41535
41C	20+10	1RB#0-0RB#0	23.50	23.32	24.05	22.55	21.97	22.64
41C	20+10	1RB#0-1RB#49	14.86	16.35	17.06	14.82	14.55	15.28
41C	20+10	1RB#99-0RB#0	23.40	23.36	23.96	22.41	22.03	22.55
41C	20+10	18RB#0-0RB#0	22.56	22.21	23.03	21.52	21.20	22.00
41C	20+10	100RB#0-50RB#0	21.43	21.31	22.03	20.41	20.33	21.05
Channel			39750-39921	40546-40717	41341-41512	39750-39921	40546-40717	41341-41512
41C	20+15	1RB#0-0RB#0	23.54	23.14	23.98	22.59	21.80	22.62
41C	20+15	1RB#0-1RB#74	14.87	16.32	17.04	14.80	14.55	15.21
41C	20+15	1RB#99-0RB#0	23.45	23.25	24.01	22.46	21.87	22.61
41C	20+15	18RB#0-0RB#0	22.56	22.24	23.04	21.58	21.23	22.06
41C	20+15	100RB#0-75RB#0	21.41	21.34	22.02	20.39	20.38	21.04
Channel			39750-39948	40521-40719	41292-41490	39750-39948	40521-40719	41292-41490
41C	20+20	1RB#0-0RB#0	23.51	23.11	23.92	22.52	21.72	22.55
41C	20+20	1RB#0-1RB#99	14.83	16.23	16.93	14.76	14.56	15.22
41C	20+20	1RB#99-0RB#0	23.39	23.16	23.94	22.43	21.77	22.55
41C	20+20	18RB#0-0RB#0	23.53	23.10	23.93	22.51	22.08	22.88
41C	20+20	100RB#0-100RB#0	21.42	21.27	21.93	20.36	20.24	20.93

Antenna 4

5G NR n41		RB Size	RB Offset	PC3 10MHz BW SCS = 30kHz			PC3 15MHz BW SCS = 30kHz			PC3 20MHz BW SCS = 30kHz			PC3 30MHz BW SCS = 30kHz		
Channel				500202	518598	537000	500700	518598	536496	501204	518598	535998	502200	518598	534996
Frequency (MHz)				2501.01	2592.99	2685	2503.5	2592.99	2682.48	2506.02	2592.99	2679.99	2511	2592.99	2674.98
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.42	23.57	23.08	23.25	23.58	23.06	23.28	23.52	23.05	23.38	23.53	23.17
	$\pi/2$ BPSK	1	Right	23.25	23.54	23.08	23.21	23.56	23.09	23.20	23.64	23.01	23.32	23.57	23.08
	$\pi/2$ BPSK	Innter_Full	Mid	23.30	23.79	23.17	23.35	23.79	23.16	23.37	23.77	23.22	23.31	23.69	23.17
	QPSK	1	Left	23.44	23.68	23.17	23.35	23.53	23.06	23.33	23.48	23.06	23.39	23.51	23.23
	QPSK	1	Right	23.31	23.64	23.09	23.18	23.66	23.06	23.25	23.54	23.15	23.35	23.72	23.13
	QPSK	Innter_Full	Mid	23.48	24.03	23.28	23.26	23.76	23.04	23.36	23.73	23.22	23.31	23.67	23.24
	16QAM	1	Left	23.52	23.81	23.37	23.64	23.75	23.38	23.56	23.80	23.34	23.55	23.74	23.37
	16QAM	1	Right	23.62	23.88	23.35	23.59	23.88	23.19	23.37	23.84	23.23	23.49	23.77	23.41
	16QAM	Innter_Full	Mid	23.34	23.68	23.17	23.44	23.73	23.16	23.46	23.78	23.24	23.30	23.71	23.33
	64QAM	1	Left	22.93	23.48	23.03	23.57	23.48	23.26	22.92	23.45	23.38	23.54	23.47	23.48
	64QAM	1	Right	23.02	23.51	23.64	23.47	23.86	23.08	22.82	23.59	23.36	23.09	23.70	23.19
	64QAM	Innter_Full	Mid	23.44	23.91	23.23	23.63	23.85	23.26	23.49	23.88	23.28	23.28	23.88	23.17
	256QAM	1	Left	22.02	22.19	21.91	22.02	22.14	21.86	22.02	22.09	21.86	22.02	22.04	21.94
	256QAM	1	Right	22.01	22.18	21.88	21.99	22.04	21.88	22.02	22.17	21.83	22.10	22.23	21.84
	256QAM	Innter_Full	Mid	22.25	22.37	22.12	21.96	22.14	21.79	21.91	22.09	21.77	21.92	22.05	21.77
CP-OFDM	QPSK	1	Left	23.67	23.67	23.12	23.59	23.59	23.27	23.23	23.90	23.14	23.67	23.94	23.30
	QPSK	1	Right	23.30	23.97	23.13	23.22	23.65	23.11	23.29	23.91	23.11	23.38	23.64	23.21
	QPSK	Innter_Full	Mid	23.23	23.63	23.26	23.21	23.76	23.12	23.27	23.66	23.22	23.15	23.71	23.20
	16QAM	1	Left	23.18	23.64	23.94	23.24	23.70	23.30	23.23	23.62	23.29	23.29	23.64	23.46
	16QAM	1	Right	23.32	23.61	23.35	23.22	23.64	23.27	23.18	23.68	23.38	23.33	23.73	23.38
	16QAM	Innter_Full	Mid	23.36	23.84	23.30	23.08	23.78	23.25	23.29	23.70	23.24	23.14	23.77	23.30
	64QAM	1	Left	22.79	23.36	22.98	22.73	23.35	22.93	22.83	22.93	22.56	22.89	22.93	23.06
	64QAM	1	Right	22.80	23.42	22.59	22.70	23.34	22.95	22.75	23.36	23.04	22.77	22.98	23.06
	64QAM	Innter_Full	Mid	22.98	23.16	22.91	22.87	23.14	22.78	22.88	23.15	22.89	22.77	23.10	22.87
	256QAM	1	Left	19.95	20.09	19.81	19.91	20.17	19.75	19.95	20.17	19.84	19.94	20.09	19.76
	256QAM	1	Right	20.00	20.05	19.87	19.90	19.97	19.80	19.95	20.12	19.73	19.98	20.08	19.91
	256QAM	Innter_Full	Mid	19.95	20.27	19.90	20.02	20.19	19.93	19.97	20.13	19.86	19.97	20.07	19.85
		RB Size	RB Offset	PC3 40MHz BW SCS = 30kHz			PC3 50MHz BW SCS = 30kHz			PC3 60MHz BW SCS = 30kHz			PC3 70MHz BW SCS = 30kHz		
Channel				503202	518598	534000	504204	518598	532998	505200	518598	531996	506202	518598	531000
Frequency (MHz)				2516.01	2592.99	2670	2521.02	2592.99	2664.9	2526	2592.99	2659.98	2531.01	2592.99	2655
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.30	23.49	23.19	23.25	23.43	23.30	23.20	23.45	23.32	23.47	23.66	23.57
	$\pi/2$ BPSK	1	Right	23.32	23.55	23.12	23.37	23.51	23.14	23.43	23.49	23.02	23.65	23.63	23.11
	$\pi/2$ BPSK	Innter_Full	Mid	23.47	23.77	23.29	23.44	23.78	23.35	23.46	23.67	23.41	23.51	23.72	23.39
	QPSK	1	Left	23.32	23.54	23.26	23.28	23.59	23.35	23.14	23.54	23.31	23.46	23.49	23.58
	QPSK	1	Right	23.32	23.65	23.20	23.43	23.50	23.10	23.50	23.48	23.04	23.72	23.64	23.16
	QPSK	Innter_Full	Mid	23.34	23.76	23.37	23.49	23.79	23.35	23.33	23.74	23.40	23.52	23.82	23.31
	16QAM	1	Left	23.53	23.73	23.40	23.47	23.73	23.70	23.47	23.90	23.49	23.58	23.93	23.93
	16QAM	1	Right	23.61	23.74	23.45	23.77	23.73	23.15	23.65	23.81	23.13	24.01	23.92	23.47
	16QAM	Innter_Full	Mid	23.35	23.73	23.38	23.53	23.78	23.31	23.43	23.73	23.33	23.49	23.80	23.45
	64QAM	1	Left	22.88	23.73	23.47	22.80	23.54	23.69	22.79	23.67	23.69	23.70	24.00	23.68
	64QAM	1	Right	23.59	23.51	23.11	22.99	23.79	23.25	23.13	23.54	23.31	24.02	24.02	23.50
	64QAM	Innter_Full	Mid	23.41	23.82	23.31	23.47	23.90	23.44	23.44	23.78	23.42	23.57	23.88	23.43
	256QAM	1	Left	22.02	22.03	21.91	21.97	22.18	21.91	21.85	21.90	21.87	22.03	22.17	22.10
	256QAM	1	Right	22.09	22.23	21.94	22.07	22.10	21.95	22.10	22.03	21.83	22.18	21.93	21.88
	256QAM	Innter_Full	Mid	21.88	22.03	21.80	21.91	22.11	21.82	21.86	22.07	21.80	21.98	22.10	21.89
CP-OFDM	QPSK	1	Left	23.62	23.91	23.46	23.63	23.89	23.48	23.49	23.81	23.46	23.41	23.65	23.63
	QPSK	1	Right	23.42	23.91	23.27	23.51	23.64	23.16	23.77	23.61	23.17	23.72	23.87	23.43
	QPSK	Innter_Full	Mid	23.17	23.80	23.29	23.24	23.69	23.35	23.29	23.70	23.24	23.43	23.80	23.34
	16QAM	1	Left	23.17	23.64	23.41	23.22	23.55	23.46	23.07	23.47	23.51	23.41	23.93	23.78
	16QAM	1	Right	23.61	23.83	23.42	23.62	23.69	23.25	23.48	23.67	23.22	23.81	24.08	23.54
	16QAM	Innter_Full	Mid	23.13	23.83	23.27	23.20	23.86	23.43	23.25	23.68	23.37	23.31	23.82	23.43
	64QAM	1	Left	22.84	22.92	22.69	22.70	23.38	23.13	22.61	23.29	22.68	22.79	22.99	22.79
	64QAM	1	Right	22.90	22.97	22.63	23.04	23.36	22.56	22.89	22.77	22.87	23.14	22.88	23.02
	64QAM	Innter_Full	Mid	22.82	23.15	22.85	22.82	23.10	22.87	22.81	23.11	22.84	22.92	23.10	22.87
	256QAM	1	Left	19.90	19.94	19.75	19.85	20.15	19.79	19.77	19.98	19.96	19.83	19.97	19.81
	256QAM	1	Right	20.06	20.05	19.84	20.03	20.03	19.74	19.91	19.83	19.74	20.10	19.90	19.74
	256QAM	Innter_Full	Mid	19.92	20.06	19.84	19.91	20.12	19.85	19.86	19.99	19.77	20.00	20.07	19.90
		RB Size	RB Offset	PC3 80MHz BW SCS = 30kHz			PC3 90MHz BW SCS = 30kHz			PC3 100MHz BW SCS = 30kHz			PC2 100MHz BW SCS = 30kHz		
Channel				507204	518598	529998	508200	518598	528996	509202	518598	528000	509202	518598	528000
Frequency (MHz)				2536.02	2592.99	2649.99	2541	2592.99	2644.98	2546.01	2592.99	2640	2546.01	2592.99	2640
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.56	23.68	23.68	23.55	23.48	23.79	23.51	23.57	23.65	25.37	25.51	25.60
	$\pi/2$ BPSK	1	Right	23.80	23.66	23.24	23.88	23.59	23.40	23.94	23.54	23.45	25.80	25.46	25.37
	$\pi/2$ BPSK	Innter_Full	Mid	23.54	23.85	23.42	23.51	23.83	23.58	23.68	23.83	23.52	25.57	25.80	25.46
	QPSK	1	Left	23.58	23.64	23.95	23.57	23.47	23.79	23.59	23.55	23.71	25.45	25.41	25.65

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	QPSK	1	Right	23.84	23.64	23.33	23.77	23.60	23.31	23.72	23.76	23.87	25.58	25.70	25.81
	QPSK	Innter_Full	Mid	23.51	23.84	23.39	23.61	23.62	23.52	24.03	24.21	23.88	25.97	26.10	25.72
	16QAM	1	Left	23.70	24.19	23.93	23.93	24.12	24.01	23.94	23.99	24.12	25.94	25.91	29.84
	16QAM	1	Right	24.17	23.86	23.32	24.19	24.04	23.30	23.82	23.81	23.35	25.71	25.75	25.29
	16QAM	Innter_Full	Mid	23.51	23.71	23.44	23.58	23.84	23.44	23.70	23.76	23.52	25.59	25.68	25.41
	64QAM	1	Left	23.34	23.70	24.00	23.83	23.71	24.17	23.79	23.98	23.96	25.70	25.84	25.82
	64QAM	1	Right	24.13	23.80	23.73	23.58	23.77	23.20	23.98	23.58	23.68	25.93	25.55	25.59
	64QAM	Innter_Full	Mid	23.61	23.87	23.35	23.51	23.77	23.52	23.59	23.76	23.58	25.43	25.65	25.47
	256QAM	1	Left	22.13	22.20	22.17	22.04	21.96	22.23	21.97	21.93	22.22	23.83	23.87	24.06
	256QAM	1	Right	22.22	21.91	21.94	22.20	21.92	21.81	22.12	22.01	21.77	24.06	23.92	23.72
	256QAM	Innter_Full	Mid	21.99	22.07	21.91	22.02	22.12	21.94	22.08	22.11	21.95	23.97	24.00	23.79
CP-OFDM	QPSK	1	Left	23.92	23.88	23.91	23.86	23.65	24.07	23.54	23.70	24.13	25.40	25.59	25.75
	QPSK	1	Right	24.11	23.71	23.34	23.73	23.72	23.44	23.97	23.67	23.48	25.89	25.59	25.37
	QPSK	Innter_Full	Mid	23.38	23.69	23.42	23.52	23.74	23.46	23.50	23.63	23.37	25.45	25.49	26.05
	16QAM	1	Left	23.49	23.92	23.88	23.51	24.02	23.97	23.51	23.96	23.74	25.43	25.85	25.68
	16QAM	1	Right	23.96	23.98	23.57	23.90	23.97	23.60	24.07	24.03	23.60	26.07	26.03	25.55
	16QAM	Innter_Full	Mid	23.50	23.80	23.33	23.44	23.72	23.42	23.57	23.70	23.50	25.49	25.62	25.44
	64QAM	1	Left	22.76	23.15	22.88	22.88	23.09	23.39	22.81	22.98	23.38	24.67	24.87	25.29
	64QAM	1	Right	22.99	22.95	22.60	23.01	22.86	22.63	23.06	22.81	22.95	24.95	24.70	24.87
	64QAM	Innter_Full	Mid	22.97	23.08	22.87	23.04	23.06	22.95	23.01	23.11	22.89	24.92	25.08	24.78
	256QAM	1	Left	19.89	19.94	19.94	19.90	20.04	19.93	19.81	19.99	20.09	21.73	21.94	21.95
	256QAM	1	Right	20.24	19.99	19.89	20.03	19.94	19.67	20.02	19.77	19.66	21.96	21.63	21.52
	256QAM	Innter_Full	Mid	20.05	20.06	19.88	20.02	20.04	19.93	20.02	20.05	19.93	21.96	21.94	21.82

Antenna 0/2/6

5G NR n41		RB Size	RB Offset	Antenna 0_PC3 100MHz BW SCS = 30kHz			Antenna 2_PC3 100MHz BW SCS = 30kHz			Antenna 6_PC3 100MHz BW SCS = 30kHz		
Channel				509202	518598	528000	509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640	2546.01	2592.99	2640	2546.01	2592.99	2640
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	21.30	21.48	21.66	21.42	21.58	21.76	20.22	20.08	20.42
	$\pi/2$ BPSK	1	Right	21.77	21.06	21.08	21.69	21.14	21.30	20.49	20.40	20.45
	$\pi/2$ BPSK	Innter_Full	Mid	21.87	21.87	21.44	22.02	22.04	21.57	20.39	20.58	20.63
	QPSK	1	Left	21.39	21.71	21.53	21.46	21.63	21.66	20.28	20.61	20.42
	QPSK	1	Right	21.49	21.20	21.27	21.76	21.28	21.29	20.45	20.62	20.38
	QPSK	Innter_Full	Mid	22.08	21.63	21.48	21.86	22.05	21.53	20.61	20.87	20.65
	16QAM	1	Left	21.51	21.85	21.38	21.56	21.82	21.48	20.36	20.40	20.60
	16QAM	1	Right	21.82	21.28	21.58	21.85	21.40	21.85	20.67	20.74	20.76
	16QAM	Innter_Full	Mid	21.87	21.90	21.32	21.90	21.97	21.49	20.33	20.64	20.66
	64QAM	1	Left	20.67	21.55	21.77	20.84	21.47	21.87	20.47	20.09	20.05
	64QAM	1	Right	21.80	20.95	20.95	21.90	21.08	21.15	20.09	20.70	20.11
	64QAM	Innter_Full	Mid	21.70	21.89	21.37	21.90	21.94	21.45	20.37	20.64	20.68
	256QAM	1	Left	19.82	20.16	20.18	20.09	20.24	20.31	18.91	18.89	18.96
	256QAM	1	Right	20.19	19.69	20.22	20.29	19.76	20.25	19.19	19.17	19.14
	256QAM	Innter_Full	Mid	20.41	20.23	19.90	20.44	20.31	19.97	18.92	19.11	19.18
CP-OFDM	QPSK	1	Left	21.17	21.39	21.20	21.32	21.47	21.42	20.38	20.30	20.65
	QPSK	1	Right	21.19	21.39	21.52	21.31	21.37	21.50	20.65	20.68	20.53
	QPSK	Innter_Full	Mid	21.75	21.55	21.52	21.67	21.77	21.49	20.26	20.57	20.59
	16QAM	1	Left	20.83	21.29	21.70	20.95	21.31	21.87	20.25	20.30	20.57
	16QAM	1	Right	21.61	21.32	21.66	21.69	21.29	21.74	20.66	20.73	20.63
	16QAM	Innter_Full	Mid	21.54	21.69	21.48	21.67	21.84	21.46	20.30	20.58	20.63
	64QAM	1	Left	21.09	21.10	20.88	21.06	21.23	21.15	19.64	19.93	20.04
	64QAM	1	Right	21.08	20.53	20.80	21.18	20.73	21.07	20.02	19.90	20.01
	64QAM	Innter_Full	Mid	21.02	21.21	20.89	21.19	21.23	20.91	19.85	20.06	20.11
	256QAM	1	Left	17.86	18.09	18.06	17.98	18.16	18.26	18.88	18.67	18.73
	256QAM	1	Right	18.11	17.82	17.56	18.19	17.94	17.83	18.94	18.69	18.78
	256QAM	Innter_Full	Mid	18.27	18.30	18.00	18.19	18.22	18.10	19.22	19.37	19.21

Note: Antenna 0/2/6 is the SRS polling antenna of N41, and the power of antenna 0/2/6 is allocated by antenna 4. Since the fallback is consistent with antenna 4, only the power of the maximum bandwidth is reflected in the report.

5.2.14 LTE Band 66, 66C and 5G NR n66

Antenna 1

			Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	BW	RB	131979	132322	132665	131979	132322	132665	131979	132322	132665	131979	132322	132665
	(MHz)		1710.7 MHz	1745 MHz	1779.3 MHz	1710.7 MHz	1745 MHz	1779.3 MHz	1710.7 MHz	1745 MHz	1779.3 MHz	1710.7 MHz	1745 MHz	1779.3 MHz
66	1.4	1RB#0	23.82	23.65	23.53	22.75	22.36	22.44	21.78	21.90	21.91	18.97	18.59	18.66
		1RB#2	23.85	23.60	23.59	22.69	22.50	22.50	21.88	21.95	21.78	19.26	18.72	18.66
		1RB#5	23.79	23.62	23.52	22.63	22.33	22.45	20.89	20.54	20.54	19.04	18.72	18.66
		3RB#0	23.72	23.55	23.44	22.55	22.34	22.25	20.88	20.56	20.47	18.83	18.71	18.60
		3RB#1	23.72	23.51	23.42	22.63	22.47	22.33	21.70	21.71	21.73	18.84	18.66	18.43
		3RB#3	23.66	23.54	23.39	22.56	22.21	22.19	20.93	20.47	20.58	18.80	18.63	18.52
		6RB#0	22.80	22.52	22.47	21.71	21.51	21.51	20.90	20.44	20.60	19.11	18.81	18.75
Band	BW	131987	132322	132657	131987	132322	132657	131987	132322	132657	131987	132322	132657	
	(MHz)	RB	1711.5 MHz	1745 MHz	1778.5 MHz	1711.5 MHz	1745 MHz	1778.5 MHz	1711.5 MHz	1745 MHz	1778.5 MHz	1711.5 MHz	1745 MHz	1778.5 MHz
66	3	1RB#0	23.80	23.67	23.50	22.80	22.47	22.23	21.80	21.49	21.71	19.04	18.92	18.39
		1RB#8	23.80	23.58	23.51	22.61	22.71	22.44	21.73	21.66	21.90	18.84	19.05	18.93
		1RB#14	23.78	23.68	23.54	22.75	22.41	22.31	20.86	20.70	20.57	19.04	18.81	18.66
		8RB#0	22.80	22.56	22.51	21.80	21.56	21.53	20.85	20.69	20.62	19.06	18.78	18.67
		8RB#4	22.75	22.51	22.45	21.73	21.50	21.36	20.90	20.56	20.56	19.06	18.80	18.68
		8RB#7	22.75	22.54	22.47	21.71	21.54	21.48	20.81	20.74	20.61	18.97	18.76	18.64
		15RB#0	22.78	22.57	22.48	21.80	21.48	21.38	20.81	20.68	20.64	19.05	18.79	18.68
Band	BW	131997	132322	132647	131997	132322	132647	131997	132322	132647	131997	132322	132647	
	(MHz)	RB	1712.5 MHz	1745 MHz	1777.5 MHz	1712.5 MHz	1745 MHz	1777.5 MHz	1712.5 MHz	1745 MHz	1777.5 MHz	1712.5 MHz	1745 MHz	1777.5 MHz
66	5	1RB#0	23.91	23.73	23.62	22.85	22.72	22.48	21.91	22.22	21.78	19.36	19.04	18.84
		1RB#12	23.81	23.66	23.47	22.67	22.77	22.58	21.89	22.25	21.78	19.42	19.18	18.99
		1RB#24	23.92	23.69	23.70	22.78	22.72	22.54	21.03	20.67	20.72	19.34	19.11	18.82
		12RB#0	22.85	22.63	22.53	21.83	21.69	21.57	21.02	20.71	20.71	19.10	18.91	18.85
		12RB#6	22.81	22.62	22.53	21.82	21.67	21.51	21.01	20.83	20.68	19.06	18.88	18.77
		12RB#13	22.79	22.60	22.53	21.77	21.66	21.57	21.03	20.74	20.70	19.06	18.90	18.82
		25RB#0	22.82	22.64	22.60	21.82	21.58	21.58	21.03	20.71	20.73	19.09	18.88	18.83
Band	BW	132022	132322	132622	132022	132322	132622	132022	132322	132622	132022	132322	132622	
	(MHz)	RB	1715 MHz	1745 MHz	1775 MHz	1715 MHz	1745 MHz	1775 MHz	1715 MHz	1745 MHz	1775 MHz	1715 MHz	1745 MHz	1775 MHz
66	10	1RB#0	23.89	23.72	23.69	22.86	22.59	22.46	21.83	21.71	21.99	19.15	18.96	18.68
		1RB#24	23.78	23.63	23.52	22.66	22.72	22.47	21.77	21.76	21.91	18.79	19.09	18.49
		1RB#49	23.81	23.73	23.68	22.80	22.54	22.45	20.93	20.76	20.69	19.05	18.96	18.57
		25RB#0	22.82	22.64	22.58	21.80	21.64	21.59	20.90	20.75	20.69	19.08	18.91	18.90
		25RB#12	22.75	22.61	22.49	21.73	21.59	21.48	20.90	20.72	20.63	19.02	18.89	18.83
		25RB#25	22.76	22.60	22.57	21.69	21.60	21.54	20.94	20.76	20.69	19.00	18.86	18.82
		50RB#0	22.82	22.62	22.56	21.78	21.62	21.56	20.97	20.75	20.69	19.08	18.89	18.79
Band	BW	132047	132322	132597	132047	132322	132597	132047	132322	132597	132047	132322	132597	
	(MHz)	RB	1717.5 MHz	1745 MHz	1772.5 MHz	1717.5 MHz	1745 MHz	1772.5 MHz	1717.5 MHz	1745 MHz	1772.5 MHz	1717.5 MHz	1745 MHz	1772.5 MHz
66	15	1RB#0	23.79	23.74	23.65	22.93	22.49	22.64	21.85	21.96	22.01	19.09	19.07	18.68
		1RB#38	23.91	23.69	23.63	22.85	22.64	22.49	21.84	21.95	22.02	18.87	19.23	18.54
		1RB#74	23.71	23.71	23.61	22.84	22.44	22.63	20.95	20.84	20.77	19.07	19.01	18.54
		38RB#0	22.75	22.63	22.56	22.77	22.62	22.56	20.93	20.83	20.75	20.96	20.83	20.75
		38RB#18	22.71	22.61	22.54	21.75	21.61	21.53	20.94	20.78	20.71	19.07	18.91	18.91
		38RB#37	22.76	22.62	22.57	22.76	22.63	22.56	20.94	20.73	20.74	20.92	20.72	20.71
		75RB#0	22.76	22.62	22.57	21.78	21.65	21.53	20.93	20.74	20.76	19.10	18.95	18.85
Band	BW	132072	132322	132572	132072	132322	132572	132072	132322	132572	132072	132322	132572	
	(MHz)	RB	1720 MHz	1745 MHz	1770 MHz	1720 MHz	1745 MHz	1770 MHz	1720 MHz	1745 MHz	1770 MHz	1720 MHz	1745 MHz	1770 MHz
66	20	1RB#0	24.12	23.92	23.97	22.83	22.94	22.48	22.57	22.10	21.59	19.15	19.28	18.89
		1RB#49	23.74	23.78	23.66	22.85	22.82	22.54	22.06	22.14	21.39	19.23	19.18	18.90
		1RB#99	23.90	23.72	23.63	22.71	22.84	22.49	20.99	20.86	20.74	19.06	19.26	18.81
		50RB#0	22.84	22.68	22.61	21.81	21.69	21.67	20.97	20.87	20.75	19.09	18.94	18.88
		50RB#25	22.78	22.67	22.62	21.75	21.72	21.60	21.00	20.87	20.79	19.06	18.96	18.91
		50RB#50	22.81	22.63	22.58	21.78	21.64	21.62	20.91	20.86	20.76	19.00	18.92	18.85
		100RB#0	22.81	22.66	22.58	21.79	21.64	21.59	20.93	20.87	20.74	19.04	18.91	18.86

Band	BW (MHz)	RB Configuration	QPSK-QPSK			16QAM-16QAM		
Channel			132025- 132145	132351- 132471	132477- 132597	132025- 132145	132351- 132471	132477- 132597
66C	10+15	1RB#0-0RB#0	23.87	23.63	23.57	23.15	22.95	22.68
66C	10+15	1RB#0-1RB#74	15.52	15.30	15.22	15.71	15.57	15.29
66C	10+15	1RB#49-0RB#0	23.75	23.60	23.58	23.05	22.89	22.62
66C	10+15	12RB#0-0RB#0	23.84	23.63	23.59	22.87	22.66	22.64

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66C	10+15	50RB#0-75RB#0	21.85	21.71	21.52	20.92	20.68	20.62
Channel			132027-132171	132328-132472	132428-132572	132027-132171	132328-132472	132428-132572
66C	10+20	1RB#0-0RB#0	23.88	23.63	23.63	22.93	22.73	22.69
66C	10+20	1RB#0-1RB#99	15.34	15.33	15.21	15.24	15.64	15.34
66C	10+20	1RB#49-0RB#0	23.86	23.64	23.58	23.55	22.72	22.70
66C	10+20	12RB#0-0RB#0	23.64	23.67	23.64	23.66	22.67	22.67
66C	10+20	50RB#0-100RB#0	21.68	21.70	21.67	21.64	20.77	20.72
Channel			132047-132167	132373-132493	132499-132619	132047-132167	132373-132493	132499-132619
66C	15+10	1RB#0-0RB#0	23.86	23.68	23.62	23.61	23.22	23.41
66C	15+10	1RB#0-1RB#49	15.46	15.36	15.23	15.79	15.97	16.04
66C	15+10	1RB#74-0RB#0	23.74	23.59	23.62	23.44	23.15	23.28
66C	15+10	16RB#0-0RB#0	22.89	22.72	22.66	21.91	21.77	21.78
66C	15+10	75RB#0-50RB#0	21.87	21.76	21.63	20.89	20.77	20.66
Channel			132047-132197	132347-132497	132447-132597	132047-132197	132347-132497	132447-132597
66C	15+15	1RB#0-0RB#0	23.86	23.66	23.62	23.40	23.39	22.93
66C	15+15	1RB#0-1RB#74	15.48	15.31	15.25	15.99	16.18	15.53
66C	15+15	1RB#74-0RB#0	23.72	23.66	23.63	23.27	23.40	22.91
66C	15+15	16RB#0-0RB#0	23.88	23.69	23.64	22.94	22.80	22.67
66C	15+15	75RB#0-75RB#0	21.86	21.83	21.62	20.86	20.83	20.66
Channel			132050-132221	132325-132496	132401-132572	132050-132221	132325-132496	132401-132572
66C	15+20	1RB#0-0RB#0	23.76	23.65	23.63	23.34	23.33	22.92
66C	15+20	1RB#0-1RB#99	15.44	15.24	15.27	15.98	16.07	15.55
66C	15+20	1RB#74-0RB#0	23.73	23.66	23.68	23.27	23.41	22.94
66C	15+20	16RB#0-0RB#0	23.82	23.68	23.67	22.87	22.78	22.67
66C	15+20	75RB#0-100RB#0	21.82	21.70	21.74	20.82	20.73	20.80
Channel			132072-132189	132397-132514	132522-132639	132072-132189	132397-132514	132522-132639
66C	20+5	1RB#0-0RB#0	23.90	23.73	23.71	23.69	23.43	23.15
66C	20+5	1RB#0-1RB#24	15.51	15.34	15.34	16.11	15.98	15.71
66C	20+5	1RB#99-0RB#0	23.77	23.65	23.69	23.43	23.33	23.09
66C	20+5	18RB#0-0RB#0	22.82	22.65	22.59	21.89	21.72	21.65
66C	20+5	100RB#0-25RB#0	21.83	21.69	21.63	20.83	20.69	20.63
Channel			132072-132216	132373-132517	132473-132617	132072-132216	132373-132517	132473-132617
66C	20+10	1RB#0-0RB#0	23.93	23.79	23.74	23.65	23.20	23.11
66C	20+10	1RB#0-1RB#49	15.55	15.46	15.35	15.98	15.83	15.74
66C	20+10	1RB#99-0RB#0	23.80	23.80	23.75	23.47	23.19	23.08
66C	20+10	18RB#0-0RB#0	22.83	22.66	22.67	21.91	21.72	21.67
66C	20+10	100RB#0-50RB#0	21.76	21.80	21.75	20.82	20.86	20.72
Channel			132072-132243	132348-132519	132423-132594	132072-132243	132348-132519	132423-132594
66C	20+15	1RB#0-0RB#0	23.95	23.74	20.69	23.27	23.45	20.69
66C	20+15	1RB#0-1RB#74	15.68	15.36	20.74	16.01	15.93	15.43
66C	20+15	1RB#99-0RB#0	23.89	23.74	20.70	23.16	23.44	20.69
66C	20+15	18RB#0-0RB#0	22.87	22.68	15.70	21.85	21.77	15.82
66C	20+15	100RB#0-75RB#0	21.90	21.78	15.83	20.83	21.95	21.72
Channel			132072-132270	132323-132521	132374-132572	132072-132270	132323-132521	132374-132572
66C	20+20	1RB#0-0RB#0	23.87	23.75	23.78	23.53	23.14	23.18
66C	20+20	1RB#0-1RB#99	15.47	15.40	15.38	16.01	15.95	15.92
66C	20+20	1RB#99-0RB#0	23.78	23.76	23.72	23.51	23.12	23.15
66C	20+20	18RB#0-0RB#0	23.82	23.68	23.67	22.88	22.73	22.65
66C	20+20	100RB#0-100RB#0	21.84	21.73	21.77	20.83	20.76	20.77

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Antenna 4

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	BW	RB	131979	132322	132665	131979	132322	132665	131979	132322	132665	131979	132322	132665
	(MHz)		1710.7 MHz	1745 MHz	1779.3 MHz	1710.7 MHz	1745 MHz	1779.3 MHz	1710.7 MHz	1745 MHz	1779.3 MHz	1710.7 MHz	1745 MHz	1779.3 MHz
66	1.4	1RB#0	23.68	23.61	23.63	22.48	22.54	22.40	21.94	21.59	21.40	18.69	18.74	18.64
		1RB#2	23.64	23.66	23.52	22.70	22.64	22.70	21.88	22.01	21.61	18.61	18.50	18.92
		1RB#5	23.71	23.60	23.65	22.48	22.47	22.42	20.64	20.50	20.58	18.67	18.45	18.64
		3RB#0	23.62	23.50	23.56	22.44	22.34	22.39	20.66	20.47	20.64	18.65	18.44	18.45
		3RB#1	23.58	23.51	23.49	22.49	22.42	22.40	21.80	21.44	21.46	18.66	18.48	18.45
		3RB#3	23.64	23.47	23.58	22.48	22.31	22.40	20.65	20.57	20.60	18.59	18.48	18.41
66	3	6RB#0	22.60	22.53	22.55	21.56	21.68	21.48	20.65	20.64	20.63	18.60	18.76	18.66
		1RB#0	23.66	23.61	23.58	22.67	22.40	22.33	21.59	21.60	21.78	18.82	18.78	18.38
		1RB#8	23.61	23.60	23.54	22.53	22.67	22.51	21.67	21.74	21.91	18.53	18.93	18.29
		1RB#14	23.69	23.69	23.57	22.63	22.46	22.34	20.68	20.75	20.54	18.86	18.73	18.38
		8RB#0	22.67	22.56	22.64	21.79	21.77	21.73	20.69	20.71	20.51	18.73	18.61	18.75
		8RB#4	22.64	22.55	22.58	21.74	21.61	21.57	20.78	20.62	20.64	18.73	18.63	18.66
66	5	8RB#7	22.69	22.57	22.62	21.75	21.70	21.73	20.68	20.72	20.53	18.74	18.61	18.72
		15RB#0	22.68	22.56	22.58	21.79	21.60	21.61	20.67	20.74	20.53	18.78	18.66	18.61
		1RB#0	23.73	23.68	23.81	22.73	22.76	22.68	21.69	22.20	21.85	19.02	18.92	18.81
		1RB#12	23.73	23.70	23.65	22.74	22.83	22.66	21.79	22.17	21.79	19.11	19.00	18.83
		1RB#24	23.86	23.67	23.78	22.74	22.72	22.61	20.87	20.67	20.75	19.15	18.98	18.74
		12RB#0	22.78	22.62	22.70	21.86	21.86	21.78	20.85	20.65	20.78	18.77	18.77	18.77
66	10	12RB#6	22.78	22.64	22.69	21.82	21.83	21.74	20.88	20.77	20.71	18.77	18.69	18.66
		12RB#13	22.74	22.64	22.65	21.80	21.81	21.78	20.90	20.67	20.74	18.75	18.72	18.71
		25RB#0	22.78	22.67	22.72	21.83	21.75	21.79	20.89	20.66	20.71	18.83	18.73	18.73
		1RB#0	23.72	23.72	23.72	22.79	22.59	22.53	21.63	21.65	21.53	18.85	18.86	18.78
		1RB#24	23.79	23.72	23.74	22.67	22.82	22.73	21.62	21.63	21.74	18.62	18.56	18.91
		1RB#49	23.76	23.69	23.69	22.78	22.53	22.47	20.79	20.74	20.75	18.82	18.74	18.70
66	15	25RB#0	22.79	22.71	22.77	21.79	21.83	21.78	20.77	20.73	20.75	18.78	18.76	18.76
		25RB#12	22.75	22.68	22.72	21.83	21.78	21.77	20.82	20.76	20.75	18.79	18.78	18.73
		25RB#25	22.81	22.71	22.75	21.79	21.79	21.79	20.77	20.76	20.75	18.79	18.76	18.76
		50RB#0	22.77	22.70	22.74	21.80	21.79	21.77	20.76	20.77	20.75	18.81	18.78	18.74
		1RB#0	1717.5 MHz	1745 MHz	1772.5 MHz	1717.5 MHz	1745 MHz	1772.5 MHz	1717.5 MHz	1745 MHz	1772.5 MHz	1717.5 MHz	1745 MHz	1772.5 MHz
		1RB#38	23.79	23.73	23.74	22.81	22.83	22.52	21.68	21.89	21.94	18.77	18.86	18.51
66	20	1RB#74	23.79	23.67	23.69	22.80	22.82	22.48	20.78	20.79	20.78	18.84	18.78	18.45
		38RB#0	22.76	22.68	22.71	22.78	22.70	22.72	20.77	20.77	20.75	20.76	20.78	20.77
		38RB#18	22.70	22.62	22.66	21.79	21.78	21.70	20.80	20.73	20.72	18.82	18.71	18.73
		38RB#37	22.76	22.68	22.72	22.76	22.69	22.71	20.80	20.68	20.75	20.82	20.69	20.74
		75RB#0	22.77	22.67	22.71	21.78	21.80	21.75	20.80	20.68	20.74	18.82	18.80	18.75
		1RB#0	1720 MHz	1745 MHz	1770 MHz	1720 MHz	1745 MHz	1770 MHz	1720 MHz	1745 MHz	1770 MHz	1720 MHz	1745 MHz	1770 MHz
66	20	1RB#49	23.87	23.75	23.71	22.75	22.97	22.57	22.34	21.98	21.51	18.89	18.83	18.76
		1RB#99	23.76	23.79	23.77	22.83	22.85	22.58	21.82	21.92	21.27	18.98	19.02	18.66
		50RB#0	23.97	23.80	23.65	22.71	23.05	22.57	20.79	20.77	20.79	18.87	18.87	18.77
		50RB#25	22.81	22.74	22.74	21.82	21.82	21.84	20.82	20.78	20.78	18.79	18.80	18.80
		50RB#50	22.79	22.71	22.75	21.82	21.82	21.77	20.80	20.83	20.78	18.82	18.80	18.76
		100RB#0	22.78	22.71	22.76	21.86	21.76	21.79	20.84	20.77	20.76	18.82	18.74	18.74

Band	BW (MHz)	RB Configuration	QPSK-QPSK			16QAM-16QAM		
Channel			132025- 132145	132351- 132471	132477- 132597	132025- 132145	132351- 132471	132477- 132597
66C	10+15	1RB#0-0RB#0	23.76	23.58	23.48	23.06	22.84	22.57
66C	10+15	1RB#0-1RB#74	15.41	15.19	15.08	15.57	15.57	15.21
66C	10+15	1RB#49-0RB#0	23.66	23.52	23.49	22.91	22.86	22.46
66C	10+15	12RB#0-0RB#0	23.73	23.63	23.48	22.76	22.61	22.55
66C	10+15	50RB#0-75RB#0	21.71	21.62	21.52	20.81	20.57	20.48
Channel			132027-	132328-	132027-	132328-	132428-	132027-

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			132171	132472	132171	132472	132572	132171
66C	10+20	1RB#0-0RB#0	23.85	23.55	23.54	22.87	22.59	22.61
66C	10+20	1RB#0-1RB#99	15.25	15.22	15.13	15.18	15.53	15.29
66C	10+20	1RB#49-0RB#0	23.75	23.58	23.53	23.50	22.58	22.70
66C	10+20	12RB#0-0RB#0	23.59	23.53	23.61	23.63	22.58	22.56
66C	10+20	50RB#0-100RB#0	21.52	21.64	21.56	21.50	20.71	20.66
Channel			132047-132167	132373-132493	132047-132167	132373-132493	132499-132619	132047-132167
66C	15+10	1RB#0-0RB#0	23.77	23.60	23.53	23.56	23.11	23.32
66C	15+10	1RB#0-1RB#49	15.32	15.25	15.14	15.71	15.94	15.96
66C	15+10	1RB#74-0RB#0	23.66	23.45	23.57	23.38	23.09	23.17
66C	15+10	16RB#0-0RB#0	22.78	22.69	22.58	21.88	21.71	21.72
66C	15+10	75RB#0-50RB#0	21.73	21.65	21.54	20.78	20.71	20.55
Channel			132047-132197	132347-132497	132047-132197	132347-132497	132447-132597	132047-132197
66C	15+15	1RB#0-0RB#0	23.78	23.63	23.51	23.34	23.31	22.77
66C	15+15	1RB#0-1RB#74	15.45	15.22	15.19	15.85	16.04	15.50
66C	15+15	1RB#74-0RB#0	23.69	23.50	23.55	23.13	23.31	22.82
66C	15+15	16RB#0-0RB#0	23.85	23.64	23.50	22.86	22.71	22.53
66C	15+15	75RB#0-75RB#0	21.78	21.77	21.53	20.78	20.74	20.58
Channel			132050-132221	132325-132496	132050-132221	132325-132496	132401-132572	132050-132221
66C	15+20	1RB#0-0RB#0	23.65	23.62	23.58	23.25	23.19	22.87
66C	15+20	1RB#0-1RB#99	15.30	15.13	15.24	15.92	15.96	15.52
66C	15+20	1RB#74-0RB#0	23.62	23.52	23.60	23.24	23.35	22.85
66C	15+20	16RB#0-0RB#0	23.71	23.68	23.64	22.79	22.62	22.56
66C	15+20	75RB#0-100RB#0	21.74	21.70	21.65	20.71	20.62	20.75
Channel			132072-132189	132397-132514	132072-132189	132397-132514	132522-132639	132072-132189
66C	20+5	1RB#0-0RB#0	23.82	23.67	23.65	23.55	23.37	23.09
66C	20+5	1RB#0-1RB#24	15.35	15.20	15.28	15.97	15.87	15.68
66C	20+5	1RB#99-0RB#0	23.63	23.62	23.61	23.37	23.22	22.98
66C	20+5	18RB#0-0RB#0	22.68	22.57	22.56	21.83	21.66	21.49
66C	20+5	100RB#0-25RB#0	21.75	21.61	21.57	20.75	20.55	20.52
Channel			132072-132216	132373-132517	132072-132216	132373-132517	132473-132617	132072-132216
66C	20+10	1RB#0-0RB#0	23.84	23.76	23.69	23.49	23.20	23.00
66C	20+10	1RB#0-1RB#49	15.44	15.30	15.32	15.87	15.83	15.63
66C	20+10	1RB#99-0RB#0	23.74	23.80	23.72	23.36	23.10	23.05
66C	20+10	18RB#0-0RB#0	22.80	22.58	22.51	21.80	21.66	21.62
66C	20+10	100RB#0-50RB#0	21.71	21.71	21.75	20.79	20.80	20.69
Channel			132072-132243	132348-132519	132072-132243	132348-132519	132423-132594	132072-132243
66C	20+15	1RB#0-0RB#0	23.81	23.68	20.61	23.13	23.39	20.60
66C	20+15	1RB#0-1RB#74	15.60	15.22	20.74	15.87	15.79	15.40
66C	20+15	1RB#99-0RB#0	23.75	23.63	20.56	23.13	23.33	20.55
66C	20+15	18RB#0-0RB#0	22.78	22.68	15.56	21.79	21.69	15.77
66C	20+15	100RB#0-75RB#0	21.84	21.78	15.78	20.72	21.84	21.69
Channel			132072-132270	132323-132521	132072-132270	132323-132521	132374-132572	132072-132270
66C	20+20	1RB#0-0RB#0	23.76	23.59	23.62	23.44	23.14	23.07
66C	20+20	1RB#0-1RB#99	15.47	15.37	15.27	15.93	15.81	15.89
66C	20+20	1RB#99-0RB#0	23.78	23.68	23.67	23.43	23.04	23.01
66C	20+20	18RB#0-0RB#0	23.82	23.54	23.61	22.82	22.62	22.62
66C	20+20	100RB#0-100RB#0	21.81	21.67	21.63	20.83	20.62	20.66

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Antenna 1

5G NR n66		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz		
Channel				342500	349000	355500	343000	349000	355000	343500	349000	354500	344000	349000	354000
Frequency (MHz)				1712.5	1745	1777.5	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	24.33	24.20	24.05	24.35	24.18	23.98	24.32	24.17	24.02	24.42	24.21	24.11
	$\pi/2$ BPSK	1	Right	24.32	24.14	24.03	24.26	24.17	23.95	24.23	24.13	23.93	24.24	24.19	24.01
	$\pi/2$ BPSK	Innter_Full	Mid	24.39	24.30	24.08	24.38	24.26	24.09	24.42	24.29	24.12	24.45	24.35	24.16
	QPSK	1	Left	24.33	24.21	23.97	24.36	24.21	23.99	24.39	24.15	24.00	24.36	24.20	24.09
	QPSK	1	Right	24.29	24.25	23.95	24.36	24.19	24.03	24.31	24.12	24.01	24.34	24.18	24.07
	QPSK	Innter_Full	Mid	24.40	24.27	24.07	24.38	24.22	24.04	24.38	24.27	24.10	24.43	24.34	24.17
	16QAM	1	Left	23.58	23.53	23.03	23.70	23.39	23.39	23.70	23.55	23.41	23.69	23.63	23.45
	16QAM	1	Right	23.56	23.51	23.03	23.59	23.21	23.31	23.57	23.40	23.29	23.64	23.40	23.31
	16QAM	Innter_Full	Mid	23.32	23.21	22.99	23.38	23.51	23.12	23.46	23.31	23.14	23.50	23.37	23.21
	64QAM	1	Left	22.16	21.66	21.48	22.21	22.07	21.92	21.80	21.79	21.90	22.31	22.17	21.62
	64QAM	1	Right	21.78	21.98	21.84	21.81	21.91	21.52	21.85	21.53	21.83	22.24	22.07	21.88
	64QAM	Innter_Full	Mid	22.05	21.88	21.71	21.94	21.78	21.58	22.00	21.83	21.67	22.02	21.84	21.73
	256QAM	1	Left	20.22	20.33	20.24	20.16	20.13	19.85	20.14	20.09	19.82	20.22	20.03	19.84
	256QAM	1	Right	20.18	20.16	20.11	20.16	20.03	19.81	20.07	20.01	19.75	20.21	20.02	19.87
	256QAM	Innter_Full	Mid	20.13	20.14	20.18	20.07	19.91	19.73	20.08	19.93	19.76	20.08	19.93	19.77
CP-OFDM	QPSK	1	Left	22.83	22.87	22.82	22.95	22.91	22.62	22.95	22.95	22.63	23.01	22.95	22.63
	QPSK	1	Right	23.02	22.93	22.58	23.04	22.67	22.63	22.88	22.70	22.58	23.18	22.84	22.80
	QPSK	Innter_Full	Mid	22.88	22.69	22.48	22.82	22.72	22.55	22.93	22.77	22.61	22.95	22.82	22.63
	16QAM	1	Left	22.51	22.30	22.14	22.34	22.41	21.92	22.54	22.38	22.16	22.31	22.12	22.03
	16QAM	1	Right	22.66	22.35	22.12	22.41	22.36	22.09	22.46	22.49	21.96	22.44	22.40	22.20
	16QAM	Innter_Full	Mid	22.47	22.34	22.16	22.37	22.24	22.04	22.42	22.29	22.10	22.47	22.36	22.18
	64QAM	1	Left	20.85	21.21	20.66	21.43	20.77	21.08	21.41	21.21	20.61	21.48	21.34	20.67
	64QAM	1	Right	20.88	20.68	20.55	21.41	21.26	20.60	21.35	21.22	21.09	21.44	21.30	20.66
	64QAM	Innter_Full	Mid	20.94	20.72	20.69	20.88	20.72	20.53	20.98	20.84	20.65	21.08	20.90	20.74
	256QAM	1	Left	18.27	18.17	17.92	18.30	18.13	17.80	18.21	18.08	17.86	18.34	18.03	17.81
	256QAM	1	Right	18.21	18.12	17.98	18.24	18.08	17.86	18.05	18.09	17.72	18.11	18.02	17.99
	256QAM	Innter_Full	Mid	18.04	17.92	17.83	18.07	17.88	17.71	18.11	17.91	17.81	18.12	17.96	17.79
		RB Size	RB Offset	25MHz BW SCS = 15kHz			30MHz BW SCS = 15kHz			40MHz BW SCS = 15kHz			N/A		
Channel				344500	349000	353500	345000	349000	353000	346000	349000	352000			
Frequency (MHz)				1722.5	1745	1767.5	1725	1745	1765	1730	1745	1760			
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	24.47	24.29	24.17	24.44	24.27	24.24	24.40	24.27	24.23			
	$\pi/2$ BPSK	1	Right	24.31	24.21	24.08	24.27	24.16	24.03	24.28	24.11	24.07			
	$\pi/2$ BPSK	Innter_Full	Mid	24.54	24.39	24.28	24.54	24.40	24.29	24.50	24.47	24.35			
	QPSK	1	Left	24.54	24.27	24.15	24.50	24.25	24.25	24.45	24.37	24.30			
	QPSK	1	Right	24.28	24.19	24.11	24.33	24.13	24.04	24.25	24.12	24.04			
	QPSK	Innter_Full	Mid	24.49	24.39	24.25	24.54	24.42	24.31	24.50	24.52	24.32			
	16QAM	1	Left	23.85	23.60	23.45	23.67	23.68	23.60	23.79	23.62	23.58			
	16QAM	1	Right	23.69	23.46	23.36	23.68	23.44	23.40	23.61	23.48	23.46			
	16QAM	Innter_Full	Mid	23.55	23.39	23.24	23.54	23.42	23.33	23.48	23.44	23.38			
	64QAM	1	Left	21.93	22.27	21.75	22.21	22.23	21.70	22.30	21.91	21.84			
	64QAM	1	Right	22.26	22.06	21.94	22.22	22.02	21.93	22.03	21.70	21.97			
	64QAM	Innter_Full	Mid	22.05	21.99	21.81	22.08	22.01	21.86	22.08	21.97	21.89			
	256QAM	1	Left	20.13	20.19	19.98	20.08	20.20	20.01	20.18	20.09	20.09			
	256QAM	1	Right	20.22	20.00	19.79	20.09	19.91	19.79	19.96	19.84	19.81			
	256QAM	Innter_Full	Mid	20.13	20.04	19.78	20.05	20.04	19.84	20.09	20.06	19.94			
CP-OFDM	QPSK	1	Left	23.07	23.14	22.95	23.04	23.06	22.84	23.03	23.07	22.86			
	QPSK	1	Right	23.14	22.92	22.71	22.90	22.82	22.70	22.95	22.87	22.81			
	QPSK	Innter_Full	Mid	23.03	22.87	22.78	22.97	22.90	22.77	22.93	22.88	22.79			
	16QAM	1	Left	22.34	22.43	22.23	22.52	22.37	22.14	22.51	22.50	22.46			
	16QAM	1	Right	22.13	22.18	22.03	22.16	22.16	22.19	22.35	22.27	22.23			
	16QAM	Innter_Full	Mid	22.51	22.39	22.27	22.51	22.37	22.24	22.50	22.39	22.33			
	64QAM	1	Left	21.02	21.32	21.28	20.92	20.92	20.79	21.52	21.36	20.86			
	64QAM	1	Right	20.97	20.80	21.18	20.90	21.23	21.17	20.85	21.25	21.19			
	64QAM	Innter_Full	Mid	21.04	20.88	20.81	21.06	20.95	20.79	21.07	20.90	20.90			
	256QAM	1	Left	18.19	18.23	17.86	18.28	18.20	18.13	18.37	18.19	17.99			
	256QAM	1	Right	18.09	17.95	17.80	18.15	18.07	17.74	17.97	17.83	17.95			
	256QAM	Innter_Full	Mid	18.13	18.00	17.82	18.11	17.99	17.86	18.15	18.04	17.93			

Antenna 4

5G NR n66		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz		
Channel				342500	349000	355500	343000	349000	355000	343500	349000	354500	344000	349000	354000
Frequency (MHz)				1712.5	1745	1777.5	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	22.98	22.78	22.71	23.10	22.85	22.83	22.81	22.88	22.79	22.93	22.87	22.79
	$\pi/2$ BPSK	1	Right	23.04	22.72	22.63	22.74	22.74	22.55	22.94	22.59	22.53	22.83	22.66	22.63
	$\pi/2$ BPSK	Innter_Full	Mid	23.01	23.13	22.95	23.21	23.05	22.88	23.13	22.88	22.98	22.91	23.08	22.98
	QPSK	1	Left	22.96	22.83	22.91	22.98	22.88	22.88	23.05	22.98	23.06	22.93	22.78	22.88
	QPSK	1	Right	22.95	22.82	22.80	22.95	22.63	22.65	22.95	22.88	22.60	22.95	22.82	22.50
	QPSK	Innter_Full	Mid	22.96	23.22	22.92	23.26	23.07	22.93	23.20	23.07	23.03	23.13	23.03	22.92
	16QAM	1	Left	22.27	22.10	22.13	22.45	22.13	22.14	22.49	22.28	22.09	22.20	22.38	22.09
	16QAM	1	Right	22.07	22.19	22.01	22.27	21.96	22.02	22.37	22.18	22.12	22.22	22.06	22.11
	16QAM	Innter_Full	Mid	21.89	21.90	21.99	22.06	21.99	21.86	22.11	22.04	21.99	21.96	22.02	21.86
	64QAM	1	Left	20.86	20.62	20.47	20.85	20.32	20.49	20.93	20.49	20.45	20.90	20.52	20.40
	64QAM	1	Right	20.63	20.28	20.57	20.79	20.18	20.58	20.56	20.30	20.63	20.61	20.28	20.50
	64QAM	Innter_Full	Mid	20.56	20.48	20.44	20.66	20.62	20.50	20.49	20.68	20.55	20.59	20.55	20.40
	256QAM	1	Left	18.66	18.65	18.70	18.88	18.67	18.62	18.89	18.72	18.60	18.66	18.55	18.64
	256QAM	1	Right	18.57	18.54	18.29	18.61	18.60	18.22	18.59	18.30	18.46	18.47	18.55	18.57
	256QAM	Innter_Full	Mid	18.69	18.52	18.70	18.64	18.69	18.70	18.74	18.57	18.54	18.69	18.59	18.60
CP-OFDM	QPSK	1	Left	21.73	21.72	21.62	21.49	21.83	21.52	21.51	21.65	21.34	21.58	21.78	21.42
	QPSK	1	Right	21.66	21.53	21.52	21.50	21.45	21.41	21.48	21.33	21.44	21.60	21.35	21.47
	QPSK	Innter_Full	Mid	21.48	21.43	21.20	21.54	21.59	21.42	21.69	21.53	21.55	21.39	21.54	21.27
	16QAM	1	Left	21.07	21.16	21.06	21.07	21.05	21.17	21.21	21.08	20.97	21.12	21.06	21.22
	16QAM	1	Right	20.90	20.90	20.79	20.91	20.88	20.69	21.06	20.82	20.99	20.76	20.93	20.93
	16QAM	Innter_Full	Mid	20.98	20.90	20.84	20.98	20.95	20.91	21.05	20.99	20.94	20.91	20.85	20.74
	64QAM	1	Left	20.15	20.01	19.44	20.00	20.06	19.57	20.17	19.87	19.42	20.03	20.06	19.39
	64QAM	1	Right	19.56	19.73	19.95	19.56	19.80	19.74	19.51	19.71	19.65	19.33	20.01	19.74
	64QAM	Innter_Full	Mid	19.70	19.43	19.46	19.55	19.46	19.51	19.48	19.50	19.50	19.83	19.51	19.45
	256QAM	1	Left	17.13	16.77	16.59	16.92	16.60	16.59	16.83	16.75	16.54	16.97	16.74	16.52
	256QAM	1	Right	16.38	16.39	16.56	16.63	16.59	16.60	16.60	16.29	16.71	16.63	16.48	16.53
	256QAM	Innter_Full	Mid	16.66	16.52	16.44	16.85	16.60	16.53	16.91	16.80	16.46	16.75	16.69	16.34
		RB Size	RB Offset	25MHz BW SCS = 15kHz			30MHz BW SCS = 15kHz			40MHz BW SCS = 15kHz			N/A		
Channel				344500	349000	353500	345000	349000	353000	346000	349000	352000			
Frequency (MHz)				1722.5	1745	1767.5	1725	1745	1765	1730	1745	1760			
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	22.86	22.83	22.99	23.01	22.80	22.83	23.20	23.00	23.04			
	$\pi/2$ BPSK	1	Right	22.84	22.67	22.58	22.81	22.72	22.65	22.84	22.62	22.93			
	$\pi/2$ BPSK	Innter_Full	Mid	22.98	23.03	22.96	23.03	22.95	23.01	23.13	23.17	22.98			
	QPSK	1	Left	22.93	22.78	22.88	23.16	23.08	22.91	23.06	23.18	23.01			
	QPSK	1	Right	22.78	22.73	22.70	22.76	22.65	22.75	22.76	22.70	22.84			
	QPSK	Innter_Full	Mid	23.16	23.17	22.83	23.06	23.03	23.08	23.13	23.34	23.12			
	16QAM	1	Left	22.20	22.28	22.24	22.20	22.17	22.21	22.59	22.48	22.39			
	16QAM	1	Right	22.31	21.99	22.01	22.32	21.96	22.22	22.31	22.13	22.22			
	16QAM	Innter_Full	Mid	22.01	22.00	21.79	22.04	22.20	22.09	22.19	22.30	21.99			
	64QAM	1	Left	20.93	20.54	20.44	20.93	20.46	20.45	20.91	20.56	20.52			
	64QAM	1	Right	20.61	20.16	20.67	20.58	20.25	20.38	20.79	20.31	20.77			
	64QAM	Innter_Full	Mid	20.68	20.48	20.55	20.61	20.50	20.42	20.83	20.72	20.69			
	256QAM	1	Left	18.78	18.65	18.67	18.83	18.64	18.72	18.83	18.67	18.72			
	256QAM	1	Right	18.56	18.39	18.47	18.47	18.30	18.39	18.76	18.47	18.44			
	256QAM	Innter_Full	Mid	18.79	18.59	18.42	18.72	18.77	18.55	18.74	18.92	18.67			
CP-OFDM	QPSK	1	Left	21.66	21.60	21.27	21.51	21.63	21.49	21.83	21.73	21.57			
	QPSK	1	Right	21.41	21.58	21.34	21.55	21.45	21.51	21.46	21.53	21.61			
	QPSK	Innter_Full	Mid	21.44	21.64	21.32	21.48	21.43	21.49	21.64	21.61	21.55			
	16QAM	1	Left	21.04	21.15	20.94	21.14	21.05	20.99	21.19	21.36	21.14			
	16QAM	1	Right	20.98	20.78	20.86	21.01	20.88	20.64	21.03	21.13	20.88			
	16QAM	Innter_Full	Mid	21.08	21.00	20.86	21.01	21.10	20.89	21.06	21.07	21.13			
	64QAM	1	Left	20.22	19.77	19.32	20.28	19.92	19.37	20.22	20.09	19.67			
	64QAM	1	Right	19.41	19.95	19.95	19.43	19.76	19.89	19.65	20.11	19.92			
	64QAM	Innter_Full	Mid	19.83	19.48	19.38	19.67	19.43	19.45	19.65	19.51	19.71			
	256QAM	1	Left	16.88	16.67	16.55	16.85	16.72	16.60	16.98	16.84	16.60			
	256QAM	1	Right	16.57	16.24	16.46	16.52	16.46	16.51	16.65	16.41	16.58			
	256QAM	Innter_Full	Mid	16.63	16.67	16.58	16.71	16.60	16.53	16.73	16.74	16.44			

5.2.15 LTE Band 71 and 5G NR n71

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	BW	RB	133147	133297	133447	133147	133297	133447	133147	133297	133447	133147	133297	133447
	(MHz)		665.5 MHz	680.5 MHz	695.5 MHz	665.5 MHz	680.5 MHz	695.5 MHz	665.5 MHz	680.5 MHz	695.5 MHz	665.5 MHz	680.5 MHz	695.5 MHz
71	5	1RB#0	23.89	24.43	24.47	22.68	23.31	23.55	22.31	22.57	22.95	19.75	19.88	19.72
		1RB#12	24.27	24.37	24.30	22.74	23.32	23.60	22.45	22.58	23.00	19.92	20.04	19.88
		1RB#24	24.41	24.41	24.41	23.13	23.28	23.51	22.47	22.60	22.98	19.80	19.88	19.69
		12RB#0	23.28	23.40	23.36	22.30	22.36	22.39	21.58	21.66	21.60	19.50	19.60	19.56
		12RB#6	23.34	23.37	23.36	22.36	22.42	22.41	21.62	21.64	21.58	19.52	19.56	19.58
		12RB#13	23.33	23.38	23.34	22.28	22.35	22.34	21.55	21.61	21.66	19.51	19.54	19.55
		25RB#0	23.33	23.40	23.37	22.37	22.40	22.33	21.58	21.63	21.49	19.56	19.58	19.55
Band	BW	RB	133172	133297	133422	133172	133297	133422	133172	133297	133422	133172	133297	133422
	(MHz)		668 MHz	680.5 MHz	693 MHz	668 MHz	680.5 MHz	693 MHz	668 MHz	680.5 MHz	693 MHz	668 MHz	680.5 MHz	693 MHz
71	10	1RB#0	24.32	24.35	24.38	23.77	23.19	23.39	22.34	22.53	23.03	19.47	19.58	19.23
		1RB#24	24.27	24.42	24.46	22.89	23.23	23.33	22.10	22.62	22.82	19.30	19.77	19.22
		1RB#49	24.46	24.40	24.38	23.95	23.23	23.39	22.09	22.53	23.06	19.59	19.60	19.26
		25RB#0	23.30	23.42	23.40	22.33	22.47	22.43	21.60	21.55	21.52	19.55	19.60	19.62
		25RB#12	23.33	23.40	23.37	22.34	22.45	22.37	21.50	21.57	21.53	19.54	19.61	19.61
		25RB#25	23.42	23.40	23.38	22.42	22.45	22.39	21.51	21.56	21.55	19.61	19.59	19.61
		50RB#0	23.37	23.41	23.38	22.38	22.43	22.37	21.55	21.59	21.56	19.62	19.59	19.53
Band	BW	RB	133197	133297	133397	133197	133297	133397	133197	133297	133397	133197	133297	133397
	(MHz)		670.5 MHz	680.5 MHz	690.5 MHz	670.5 MHz	680.5 MHz	690.5 MHz	670.5 MHz	680.5 MHz	690.5 MHz	670.5 MHz	680.5 MHz	690.5 MHz
71	15	1RB#0	24.22	24.37	24.49	23.41	23.41	23.50	22.35	22.79	22.95	19.59	19.70	19.26
		1RB#38	24.43	24.44	24.60	23.54	23.38	23.46	22.00	22.78	22.88	19.42	19.80	19.33
		1RB#74	24.34	24.38	24.48	23.57	23.41	23.47	22.04	22.77	22.95	19.66	19.76	19.24
		38RB#0	23.41	23.39	23.51	23.38	23.37	23.52	19.44	19.73	19.26	19.50	19.70	19.23
		38RB#18	23.35	23.40	23.51	22.32	22.42	22.56	21.61	21.60	21.60	19.61	19.60	19.62
		38RB#37	23.58	24.04	23.47	23.57	24.02	23.49	19.71	19.77	19.22	19.64	19.68	19.25
		75RB#0	23.35	23.52	23.51	22.36	22.55	22.57	21.58	21.61	21.58	19.60	19.64	19.56
Band	BW	RB	133222	133322	133372	133222	133322	133372	133222	133322	133372	133222	133322	133372
	(MHz)		673 MHz	683 MHz	688 MHz	673 MHz	683 MHz	688 MHz	673 MHz	683 MHz	688 MHz	673 MHz	683 MHz	688 MHz
71	20	1RB#0	24.36	24.46	24.55	23.51	23.98	23.61	22.63	22.63	22.29	19.43	19.64	19.53
		1RB#49	24.50	24.55	24.46	23.87	23.54	23.73	22.94	22.96	22.13	19.74	19.62	19.58
		1RB#99	24.61	24.51	24.54	23.77	24.09	23.63	22.98	22.61	22.30	19.65	19.61	19.58
		50RB#0	23.45	23.54	23.51	22.43	22.53	22.49	21.63	21.63	21.59	19.52	19.62	19.58
		50RB#25	23.51	23.54	23.53	22.55	22.51	22.53	21.62	21.64	21.64	19.62	19.53	19.64
		50RB#50	23.53	23.53	23.50	22.51	22.52	22.49	21.55	21.66	21.59	19.60	19.58	19.61
		100RB#0	23.50	23.54	23.53	22.49	22.53	22.51	21.54	21.67	21.63	19.57	19.58	19.61

5G NR n71		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz			15MHz BW SCS = 15kHz			20MHz BW SCS = 15kHz		
Channel				1331 00	1361 00	1391 00	1336 00	1361 00	1386 00	1341 00	1361 00	1381 00	1346 00	1361 00	1376 00
Frequency (MHz)				665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5	673	680.5	688
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	24.03	24.20	24.14	23.98	24.15	24.14	23.95	24.10	24.10	24.00	24.10	24.15
	$\pi/2$ BPSK	1	Right	24.19	24.21	24.18	24.16	24.13	24.19	24.11	24.08	24.15	24.11	24.12	24.20
	$\pi/2$ BPSK	Innter_Full	Mid	24.23	24.29	24.29	24.24	24.24	24.23	24.20	24.31	24.20	24.22	24.23	24.22
	QPSK	1	Left	24.08	24.25	24.21	24.06	24.17	24.16	23.97	24.15	24.15	24.11	24.22	24.19
	QPSK	1	Right	24.24	24.24	24.28	24.20	24.17	24.22	24.08	24.11	24.21	24.25	24.13	24.22
	QPSK	Innter_Full	Mid	24.27	24.35	24.31	24.22	24.29	24.22	24.25	24.25	24.25	24.20	24.38	24.22
	16QAM	1	Left	23.10	23.23	23.46	23.35	23.18	23.47	23.06	23.11	23.22	23.15	23.27	23.28
	16QAM	1	Right	23.17	23.21	23.51	23.47	23.19	23.55	23.11	23.14	23.25	23.26	23.27	23.28
	16QAM	Innter_Full	Mid	23.15	23.32	23.16	23.21	23.29	23.23	23.21	23.24	23.25	23.24	23.27	23.26
	64QAM	1	Left	21.85	22.00	21.58	21.58	21.94	21.62	21.55	21.89	21.68	21.61	21.67	21.68
	64QAM	1	Right	21.92	21.98	21.62	21.91	21.60	21.64	21.91	21.54	21.69	21.70	21.76	21.79
	64QAM	Innter_Full	Mid	21.86	21.87	21.78	21.79	21.85	21.78	21.81	21.82	21.76	21.71	21.79	21.77
	256QAM	1	Left	19.59	19.69	19.81	19.73	19.63	19.71	19.67	19.63	19.89	20.01	20.07	20.15
	256QAM	1	Right	19.68	19.86	19.92	19.81	19.79	19.88	19.59	19.65	19.96	19.97	19.90	19.99
	256QAM	Innter_Full	Mid	19.75	19.85	19.83	19.72	19.75	19.72	19.77	19.80	19.76	19.77	19.78	19.76
CP-OFDM	QPSK	1	Left	22.89	22.99	22.90	22.87	22.71	22.71	22.51	22.94	22.59	22.53	22.62	22.64
	QPSK	1	Right	22.98	22.87	23.00	22.64	22.93	23.00	22.83	22.88	22.64	22.60	22.58	22.84
	QPSK	Innter_Full	Mid	22.69	22.75	22.74	22.73	22.70	22.72	22.73	22.77	22.81	22.72	22.77	22.75
	16QAM	1	Left	22.15	22.35	22.30	22.09	22.36	22.38	22.08	22.30	22.39	22.16	22.34	22.46
	16QAM	1	Right	22.40	22.38	22.35	22.22	22.31	22.35	22.30	22.24	22.41	22.38	22.38	22.44
	16QAM	Innter_Full	Mid	22.32	22.35	22.38	22.15	22.27	22.23	22.29	22.28	22.26	22.26	22.34	22.27
	64QAM	1	Left	20.67	20.69	20.83	20.57	20.61	20.63	20.71	20.80	20.26	20.62	20.28	20.80
	64QAM	1	Right	20.85	20.65	20.72	20.73	20.89	20.79	20.64	20.63	20.34	20.79	20.72	20.79
	64QAM	Innter_Full	Mid	20.85	20.79	20.79	20.78	20.76	20.76	20.77	20.81	20.75	20.78	20.81	20.78
	256QAM	1	Left	17.59	17.56	17.71	17.62	17.52	17.54	17.57	17.72	17.93	17.84	18.05	17.99
	256QAM	1	Right	17.54	17.55	17.56	17.82	17.61	17.84	17.53	17.73	17.93	18.06	18.03	17.96
	256QAM	Innter_Full	Mid	17.73	17.77	17.76	17.66	17.69	17.68	17.74	17.75	17.70	17.77	17.80	17.76

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5.3 ERP OR EIRP

Test Requirement: FCC 47 CFR Part 2.1046(a)
LTE Band 2/25 and 5G NR n2/25: FCC 47 CFR Part 24.232(c)
LTE Band 4/66 and 5G NR n66: FCC 47 CFR Part 27.50(d)(4)
LTE Band 5/26 and 5G NR n5/26: FCC 47 CFR Part 22.913(a)
LTE Band 7/38/41 and 5G NR n7/38/41: FCC 47 CFR Part 27.50(h)(2)
LTE Band 12/17/71 and 5G NR n12/71: FCC 47 CFR Part 27.50(c)(10)
LTE Band 13 and 5G NR n13: FCC 47 CFR Part 27.50(b)(10)
LTE Band 26 and 5G NR n26: FCC 47 CFR Part 90.635
LTE Band 30: FCC 47 CFR Part 27.50(a)(3)

Test Method: KDB 971168 D01v03r01 Section 5.6 & ANSI C63.26-2015

Limit:

FCC 47 CFR Part 22.913(a):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c):

Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4):

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

FCC 47 CFR Part 27.50(c)(10):

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

FCC 47 CFR Part 27.50(h)(2):

Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

FCC 47 CFR Part 27.50(b)(10):

Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

FCC 47 CFR Part 90.635:

(a) The effective radiated power and antenna height for base stations may not exceed 1 kilowatt (30 dBw) and 304 m. (1,000 ft.) above average terrain (AAT), respectively, or the equivalent thereof as determined from the Table. These are maximum values, and applicants will be required to justify power levels and antenna heights requested.

(b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

Table—Equivalent Power and Antenna Heights for Base Stations in the 851–869 MHz and 935–940 MHz Bands Which Have a Requirement for a 32 km (20 mi) Service Area Radius

Antenna height (ATT) meters (feet)	Effective radiated power (watts) ^{1 2 4}
Above 1,372 (4,500)	65
Above 1,220 (4,000) to 1,372 (4,500)	70
Above 1,067 (3,500) to 1,220 (4,000)	75
Above 915 (3,000) to 1,067 (3,500)	100
Above 763 (2,500) to 915 (3,000)	140
Above 610 (2,000) to 763 (2,500)	200
Above 458 (1,500) to 610 (2,000)	350
Above 305 (1,000) to 458 (1,500)	600
Up to 305 (1,000)	³ 1,000

1. Power is given in terms of effective radiated power (ERP).

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2. Applicants in the Los Angeles, CA, area who demonstrate a need to serve both the downtown and fringe areas will be permitted to utilize an ERP of 1 kw at the following mountaintop sites: Santiago Park, Sierra Peak, Mount Lukens, and Mount Wilson.
3. Stations with antennas below 305 m (1,000 ft) (AAT) will be restricted to a maximum power of 1 kw (ERP).
4. Licensees in San Diego, CA, will be permitted to utilize an ERP of 500 watts at the following mountaintop sites: Palomar, Otay, Woodson and Miguel.

FCC 47 CFR Part 27.50(a)(3):

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

Test Procedure:

According to KDB 412172 D01 Power Approach,

- **ERP or EIRP = $P_T + G_T - L_c$**
- **ERP = EIRP - 2.15**

where

- **P_T** = transmitter output power, expressed in dBW, dBm, or PSD;
- **G_T** = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- **L_c** = **signal attenuation in the connecting cable between the transmitter and antenna, in dB.**

Test Setup: Refer to section 4.2.1 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

LTE & 5G NR Band	TX Frequency (MHz)	Ant.	Ant. Gain (dBi)	Max. Tune Up (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
LTE Band 2	1850 - 1910	1	0.8	25.0	25.8	0.3802
		4	0.4	24.5	24.9	0.3090
LTE Band 4	1710 - 1755	1	1.0	24.5	25.5	0.3548
		4	-1.4	24.5	23.1	0.2042
LTE Band 5	824 - 849	0	-4.0	25.0	18.9	0.0767
LTE Band 7	2500 - 2570	0	-0.4	24.0	23.6	0.2291
		4	-0.3	24.5	24.2	0.2630
LTE CA_7C	2500 - 2570	0	-0.4	23.7	23.3	0.2138
		4	-0.3	24.2	23.9	0.2455
LTE Band 12	699 - 716	0	-5.5	25.0	17.4	0.0543
LTE Band 13	777 - 787	0	-5.5	25.0	17.4	0.0543
LTE Band 17	704 - 716	0	-5.5	25.0	17.4	0.0543
LTE Band 25	1850 - 1915	1	0.8	25.0	25.8	0.3802
		4	0.4	24.5	24.9	0.3090
LTE Band 26	814 - 824	0	-4.0	25.0	18.9	0.0767
LTE Band 26	824 - 849	0	-4.0	25.0	18.9	0.0767
LTE Band 30	2305 - 2315	0	-1.2	24.5	23.3	0.2138
LTE Band 38	2570 - 2620	0	-0.4	24.0	23.6	0.2291
		4	-1.1	24.5	23.4	0.2188
LTE Band 41	2496 - 2690	0	-0.4	24.0	23.6	0.2291
		4	-0.3	24.5	24.2	0.2630
LTE CA_41C	2496 - 2690	4	-0.3	24.5	24.2	0.2630
LTE Band 66	1710 - 1780	1	1.0	24.5	25.5	0.3548
		4	-1.4	24.5	23.1	0.2042
LTE CA_66C	1710 - 1780	1	1.0	24.2	25.2	0.3311
		4	-1.4	24.2	22.8	0.1905
LTE Band 71	663 - 698	0	-2.2	25.0	20.7	0.1161
5G NR n2	1850 - 1910	1	0.8	24.5	25.3	0.3388
		4	0.4	24.5	24.9	0.3090
5G NR n5	824 - 849	0	-4.0	24.5	18.4	0.0684
5G NR n7	2500 - 2570	0	-0.4	24.0	23.6	0.2291
		4	-0.3	24.0	23.7	0.2344
5G NR n12	699 - 716	0	-5.5	24.5	16.9	0.0484
5G NR n25	1850 - 1915	1	0.8	24.5	25.3	0.3388
		4	0.4	24.5	24.9	0.3090
5G NR n26	814 - 824	0	-4.0	24.5	18.4	0.0684
5G NR n26	824 - 849	0	-4.0	24.5	18.4	0.0684
5G NR n38	2570 - 2620	0	-0.4	24.0	23.6	0.2291
		4	-1.1	24.5	23.4	0.2188
5G NR n41	2496 - 2690	0	-0.4	22.0	21.6	0.1445
		2	-2.6	22.0	19.4	0.0871
		4	-0.3	26.4	26.1	0.4074
		6	-5.8	21.5	15.7	0.0372
5G NR n66	1710 - 1780	1	1.0	25.0	26.0	0.3981
		4	-1.4	24.0	22.6	0.1820
5G NR n71	663 - 698	0	-2.2	25.0	20.7	0.1161

Note:

- The maximum ERP/EIRP is calculated from max output power and antenna gain, the antenna gain provided by the customer, and the customer takes all the responsibilities for the accuracy of antenna gain.
- $EIRP = \text{Tune Up (dBm)} + \text{Antenna Gain (dBi)}$, $ERP = EIRP - 2.15$

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5.4 PEAK-TO-AVERAGE RATIO

Test Requirement:	LTE Band 2/25 and 5G NR n2/25: FCC 47 CFR Part 24.232(d)
	LTE Band 4/66 and 5G NR n66: FCC 47 CFR Part 27.50(d)(5)
	LTE Band 5/26 and 5G NR n5/26: FCC 47 CFR Part 22.913(a)
	LTE Band 7/38/41 and 5G NR n7/38/41: FCC 47 CFR Part 27.50(d)(5)
	LTE Band 12/17/71 and 5G NR n12/71: FCC 47 CFR Part 27.50(d)(5)
	LTE Band 13 and 5G NR n13: FCC 47 CFR Part 27.50(d)(5)
	LTE Band 26 and 5G NR n26: N/A
Test Method:	LTE Band 30: FCC 47 CFR Part 27.50(a)(B)
	KDB 971168 D01v03r01 Section 5.7
Limit:	In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB
Test Procedure:	The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.
	a) Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth b) Set the number of counts to a value that stabilizes the measured CCDF curve c) Record the maximum PAPR level associated with a probability of 0.1 %
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.	
Test Setup:	Refer to section 4.2.2 for details.
Instruments Used:	Refer to section 3 for details
Test Mode:	Link mode
Test Results:	Pass
Test Data:	Please refer to Appendix A to T

5.5 99%&26DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 2.1049(h)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01 Section 4

Limit: No Limit, for reporting purposes only.

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: Please refer to Appendix A to T

5.6 BAND EDGE AT ANTENNA TERMINALS & EMISSION MASK

Test Requirement: FCC 47 CFR Part 2.1051
LTE Band 2/25 and 5G NR n2/25: FCC 47 CFR Part 24.238(a)
LTE Band 4/66 and 5G NR n66: FCC 47 CFR Part 27.53(h)(1)
LTE Band 5/26 and 5G NR n5/26: FCC 47 CFR Part 22.917(a)
LTE Band 7/38/41 and 5G NR n7/38/41: FCC 47 CFR Part 27.53(m)(4)
LTE Band 12/17/71 and 5G NR n12/71: FCC 47 CFR Part 27.53(g)
LTE Band 13 and 5G NR n13: FCC 47 CFR Part 27.53
LTE Band 26 and 5G NR n26: FCC 47 CFR Part 90.691
LTE Band 30: FCC 47 CFR Part 27.53(a)(4)
Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a):

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(m)(4):

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC 47 CFR Part 27.53(g):

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC 47 CFR Part 27.53(c)(2):

On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

FCC 47 CFR Part 90.691:

(a)(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(a)(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

FCC 47 CFR Part 27.53(a)(4): For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log$

(P) dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

FCC 47 CFR Part 27.53(a)(5): Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

For each band edge measurement:

- 1) Set the spectrum analyzer span to include the block edge frequency.
- 2) Set a marker to point the corresponding band edge frequency in each test case.
- 3) Set display line at -13 dBm
- 4) Set resolution bandwidth to at least 1% of emission bandwidth.
- 5) Set spectrum analyzer with RMS detector.
- 6) Record the max trace plot into the test report

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: Please refer to Appendix A to T

5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: FCC 47 CFR Part 2.1051
LTE Band 2/25 and 5G NR n2/25: FCC 47 CFR Part 24.238(a)(b)
LTE Band 4/66 and 5G NR n66: FCC 47 CFR Part 27.53(h)
LTE Band 5/26 and 5G NR n5/26: FCC 47 CFR Part 22.917(a)(b)
LTE Band 7/38/41 and 5G NR n7/38/41: FCC 47 CFR Part 27.53(m)(4)
LTE Band 12/17/71 and 5G NR n12/71: FCC 47 CFR Part 27.53(g)
LTE Band 13 and 5G NR n13: FCC 47 CFR Part 27.53
LTE Band 26 and 5G NR n26: FCC 47 CFR Part 90.691
LTE Band 30: FCC 47 CFR Part 27.53(a)(4)
Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g), 27.53(c)(2), 90.691:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(m)(4):

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

FCC 47 CFR Part 27.53(a)(4): For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

Test Procedure:

The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: Please refer to Appendix A to T

5.8 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: FCC 47 CFR Part 2.1051
LTE Band 2/25 and 5G NR n2/25: FCC 47 CFR Part 24.238(a)(b)
LTE Band 4/66 and 5G NR n66: FCC 47 CFR Part 27.53(h)
LTE Band 5/26 and 5G NR n5/26: FCC 47 CFR Part 22.917(a)(b)
LTE Band 7/38/41 and 5G NR n7/38/41: FCC 47 CFR Part 27.53(m)(4)
LTE Band 12/17/71 and 5G NR n12/71: FCC 47 CFR Part 27.53(g)
LTE Band 13 and 5G NR n13: FCC 47 CFR Part 27.53
LTE Band 26 and 5G NR n26: FCC 47 CFR Part 90.691
LTE Band 30: FCC 47 CFR Part 27.53(a)(4)
Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01
Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009 MHz-30 MHz	Peak	10 kHz	30 KHz	Peak
30 MHz-1 GHz	Quasi-peak	100 kHz	300 KHz	Peak
Above 1 GHz	Peak	1 MHz	3 MHz	Peak

Limits:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g), 27.53(c)(2), 90.691:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(m)(4):

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

FCC 47 CFR Part 27.53:

(c) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

FCC 47 CFR Part 27.53(a)(4): For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

Test Setup: Refer to section 4.2.1 for details.

Test Procedures: KDB 971168 D01v03r01 Section 7

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

5.8.1 LTE Band 7, 7C and 5G NR n7

LTE Band 7_Antenna 0_20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	42.931	-71.96	27.84	-44.12	-25.00	-19.12	Horizontal
2	220.724	-70.21	28.34	-41.87	-25.00	-16.87	Horizontal
3	286.265	-69.65	30.97	-38.68	-25.00	-13.68	Horizontal
4	5020.000	-59.65	11.38	-48.27	-25.00	-23.27	Horizontal
5	7530.000	-61.42	14.22	-47.20	-25.00	-22.20	Horizontal
6	17570.000	-65.79	21.00	-44.79	-25.00	-19.79	Horizontal
7	39.182	-70.48	29.87	-40.61	-25.00	-15.61	Vertical
8	123.181	-62.35	22.86	-39.49	-25.00	-14.49	Vertical
9	899.958	-78.78	45.27	-33.51	-25.00	-8.51	Vertical
10	5020.000	-59.71	11.38	-48.33	-25.00	-23.33	Vertical
11	7530.000	-61.69	14.22	-47.47	-25.00	-22.47	Vertical
12	17570.000	-65.59	21.00	-44.59	-25.00	-19.59	Vertical
Middle Channel							
1	220.724	-71.40	28.34	-43.06	-25.00	-18.06	Horizontal
2	280.294	-69.47	30.58	-38.89	-25.00	-13.89	Horizontal
3	906.304	-80.09	45.37	-34.72	-25.00	-9.72	Horizontal
4	5070.000	-59.34	11.47	-47.87	-25.00	-22.87	Horizontal
5	7605.000	-62.27	14.19	-48.08	-25.00	-23.08	Horizontal
6	17745.000	-66.24	21.56	-44.68	-25.00	-19.68	Horizontal
7	39.459	-68.66	29.57	-39.09	-25.00	-14.09	Vertical
8	124.050	-62.63	23.11	-39.52	-25.00	-14.52	Vertical
9	280.294	-72.93	30.58	-42.35	-25.00	-17.35	Vertical
10	5070.000	-60.23	11.47	-48.76	-25.00	-23.76	Vertical
11	7605.000	-61.87	14.19	-47.68	-25.00	-22.68	Vertical
12	17745.000	-65.43	21.56	-43.87	-25.00	-18.87	Vertical
Highest Channel							
1	222.281	-71.21	28.32	-42.89	-25.00	-17.89	Horizontal
2	280.294	-68.80	30.58	-38.22	-25.00	-13.22	Horizontal
3	850.760	-79.01	44.25	-34.76	-25.00	-9.76	Horizontal
4	5120.000	-61.17	11.55	-49.62	-25.00	-24.62	Horizontal
5	7680.000	-62.22	14.16	-48.06	-25.00	-23.06	Horizontal
6	17920.000	-65.16	22.12	-43.04	-25.00	-18.04	Horizontal
7	38.365	-67.80	30.58	-37.22	-25.00	-12.22	Vertical
8	124.050	-62.89	23.11	-39.78	-25.00	-14.78	Vertical
9	286.265	-74.77	30.97	-43.80	-25.00	-18.80	Vertical
10	5120.000	-60.33	11.55	-48.78	-25.00	-23.78	Vertical
11	7680.000	-61.63	14.16	-47.47	-25.00	-22.47	Vertical
12	17920.000	-64.86	22.12	-42.74	-25.00	-17.74	Vertical

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LTE Band 7_Antenna 4_ 20 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	50.461	-69.52	24.46	-45.06	-25.00	-20.06	Horizontal
2	222.281	-70.37	28.32	-42.05	-25.00	-17.05	Horizontal
3	280.294	-69.10	30.58	-38.52	-25.00	-13.52	Horizontal
4	5020.000	-60.31	11.38	-48.93	-25.00	-23.93	Horizontal
5	7530.000	-61.78	14.22	-47.56	-25.00	-22.56	Horizontal
6	17570.000	-65.24	21.00	-44.24	-25.00	-19.24	Horizontal
7	37.565	-69.50	31.09	-38.41	-25.00	-13.41	Vertical
8	124.925	-63.43	23.12	-40.31	-25.00	-15.31	Vertical
9	739.214	-78.25	42.11	-36.14	-25.00	-11.14	Vertical
10	5020.000	-59.70	11.38	-48.32	-25.00	-23.32	Vertical
11	7530.000	-60.84	14.22	-46.62	-25.00	-21.62	Vertical
12	17570.000	-65.65	21.00	-44.65	-25.00	-19.65	Vertical
Middle Channel							
1	216.120	-69.99	28.12	-41.87	-25.00	-16.87	Horizontal
2	280.294	-68.68	30.58	-38.10	-25.00	-13.10	Horizontal
3	793.028	-79.31	43.22	-36.09	-25.00	-11.09	Horizontal
4	5070.000	-60.54	11.47	-49.07	-25.00	-24.07	Horizontal
5	7605.000	-62.04	14.19	-47.85	-25.00	-22.85	Horizontal
6	17745.000	-65.80	21.56	-44.24	-25.00	-19.24	Horizontal
7	39.459	-69.62	29.57	-40.05	-25.00	-15.05	Vertical
8	120.612	-62.74	22.95	-39.79	-25.00	-14.79	Vertical
9	887.398	-79.43	44.96	-34.47	-25.00	-9.47	Vertical
10	5070.000	-59.87	11.47	-48.40	-25.00	-23.40	Vertical
11	7605.000	-61.93	14.19	-47.74	-25.00	-22.74	Vertical
12	17745.000	-65.37	21.56	-43.81	-25.00	-18.81	Vertical
Highest Channel							
1	280.294	-68.62	30.58	-38.04	-25.00	-13.04	Horizontal
2	798.620	-78.78	43.25	-35.53	-25.00	-10.53	Horizontal
3	868.886	-80.13	44.75	-35.38	-25.00	-10.38	Horizontal
4	5120.000	-60.87	11.55	-49.32	-25.00	-24.32	Horizontal
5	7680.000	-61.85	14.16	-47.69	-25.00	-22.69	Horizontal
6	17920.000	-65.56	22.12	-43.44	-25.00	-18.44	Horizontal
7	42.931	-66.63	27.84	-38.79	-25.00	-13.79	Vertical
8	123.181	-62.87	22.86	-40.01	-25.00	-15.01	Vertical
9	276.382	-72.72	30.13	-42.59	-25.00	-17.59	Vertical
10	5120.000	-61.34	11.55	-49.79	-25.00	-24.79	Vertical
11	7680.000	-61.80	14.16	-47.64	-25.00	-22.64	Vertical
12	17920.000	-65.68	22.12	-43.56	-25.00	-18.56	Vertical

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UTTR-RF-FCC4G-V1.1

LTE CA_7C_Antenna 0_20+20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	220.724	-70.58	28.34	-42.24	-25.00	-17.24	Horizontal
2	280.294	-68.50	30.58	-37.92	-25.00	-12.92	Horizontal
3	868.886	-79.97	44.75	-35.22	-25.00	-10.22	Horizontal
4	5020.000	-59.89	11.38	-48.51	-25.00	-23.51	Horizontal
5	7530.000	-60.78	14.22	-46.56	-25.00	-21.56	Horizontal
6	17570.000	-64.65	21.00	-43.65	-25.00	-18.65	Horizontal
7	22590.000	-68.63	1.64	-66.99	-25.00	-41.99	Horizontal
8	25100.000	-67.00	0.84	-66.16	-25.00	-41.16	Horizontal
9	39.737	-69.67	29.26	-40.41	-25.00	-15.41	Vertical
10	123.181	-61.84	22.86	-38.98	-25.00	-13.98	Vertical
11	276.382	-72.89	30.13	-42.76	-25.00	-17.76	Vertical
12	5020.000	-59.98	11.38	-48.60	-25.00	-23.60	Vertical
13	7530.000	-60.11	14.22	-45.89	-25.00	-20.89	Vertical
14	17570.000	-64.49	21.00	-43.49	-25.00	-18.49	Vertical
15	22590.000	-68.90	1.61	-67.29	-25.00	-42.29	Vertical
16	25100.000	-67.01	0.68	-66.33	-25.00	-41.33	Vertical
Middle Channel							
1	219.179	-70.89	28.31	-42.58	-25.00	-17.58	Horizontal
2	282.270	-70.20	30.70	-39.50	-25.00	-14.50	Horizontal
3	919.132	-79.66	45.27	-34.39	-25.00	-9.39	Horizontal
4	5050.200	-59.96	11.43	-48.53	-25.00	-23.53	Horizontal
5	7575.300	-61.20	14.20	-47.00	-25.00	-22.00	Horizontal
6	17675.700	-65.66	21.34	-44.32	-25.00	-19.32	Horizontal
7	22725.900	-68.31	1.61	-66.70	-25.00	-41.70	Horizontal
8	25251.000	-67.17	0.92	-66.25	-25.00	-41.25	Horizontal
9	42.931	-65.10	27.84	-37.26	-25.00	-12.26	Vertical
10	123.181	-62.80	22.86	-39.94	-25.00	-14.94	Vertical
11	887.398	-79.16	44.96	-34.20	-25.00	-9.20	Vertical
12	5050.200	-60.13	11.43	-48.70	-25.00	-23.70	Vertical
13	7575.300	-61.97	14.20	-47.77	-25.00	-22.77	Vertical
14	17675.700	-65.37	21.34	-44.03	-25.00	-19.03	Vertical
15	22725.900	-67.92	1.52	-66.40	-25.00	-41.40	Vertical
16	25251.000	-66.94	0.82	-66.12	-25.00	-41.12	Vertical
Highest Channel							
1	280.294	-69.67	30.58	-39.09	-25.00	-14.09	Horizontal
2	693.910	-79.20	41.64	-37.56	-25.00	-12.56	Horizontal
3	906.304	-79.16	45.37	-33.79	-25.00	-8.79	Horizontal
4	5080.400	-59.92	11.48	-48.44	-25.00	-23.44	Horizontal
5	7620.600	-61.12	14.18	-46.94	-25.00	-21.94	Horizontal
6	17781.400	-65.12	21.68	-43.44	-25.00	-18.44	Horizontal
7	22861.800	-67.59	1.65	-65.94	-25.00	-40.94	Horizontal
8	25402.000	-68.22	0.82	-67.40	-25.00	-42.40	Horizontal
9	37.830	-70.27	30.96	-39.31	-25.00	-14.31	Vertical
10	123.181	-62.55	22.86	-39.69	-25.00	-14.69	Vertical
11	899.958	-79.12	45.27	-33.85	-25.00	-8.85	Vertical
12	5080.400	-59.51	11.48	-48.03	-25.00	-23.03	Vertical
13	7620.600	-59.33	14.18	-45.15	-25.00	-20.15	Vertical
14	17781.400	-65.91	21.68	-44.23	-25.00	-19.23	Vertical
15	22861.800	-68.25	1.55	-66.70	-25.00	-41.70	Vertical
16	25402.000	-67.23	0.72	-66.51	-25.00	-41.51	Vertical

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UTTR-RF-FCC4G-V1.1

LTE CA_7C_Antenna 4_20+20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	219.179	-71.22	28.31	-42.91	-25.00	-17.91	Horizontal
2	280.294	-68.45	30.58	-37.87	-25.00	-12.87	Horizontal
3	728.897	-78.04	42.03	-36.01	-25.00	-11.01	Horizontal
4	5020.000	-56.96	11.38	-45.58	-25.00	-20.58	Horizontal
5	7530.000	-59.90	14.22	-45.68	-25.00	-20.68	Horizontal
6	17570.000	-64.95	21.00	-43.95	-25.00	-18.95	Horizontal
7	22590.000	-68.88	1.64	-67.24	-25.00	-42.24	Horizontal
8	25100.000	-67.73	0.84	-66.89	-25.00	-41.89	Horizontal
9	124.050	-63.24	23.11	-40.13	-25.00	-15.13	Vertical
10	286.265	-74.18	30.97	-43.21	-25.00	-18.21	Vertical
11	708.694	-78.77	41.95	-36.82	-25.00	-11.82	Vertical
12	5020.000	-59.56	11.38	-48.18	-25.00	-23.18	Vertical
13	7530.000	-60.18	14.22	-45.96	-25.00	-20.96	Vertical
14	17570.000	-64.99	21.00	-43.99	-25.00	-18.99	Vertical
15	22590.000	-71.01	1.61	-69.40	-25.00	-44.40	Vertical
16	25100.000	-68.61	0.68	-67.93	-25.00	-42.93	Vertical
Middle Channel							
1	220.724	-70.27	28.34	-41.93	-25.00	-16.93	Horizontal
2	280.294	-69.17	30.58	-38.59	-25.00	-13.59	Horizontal
3	887.398	-79.06	44.96	-34.10	-25.00	-9.10	Horizontal
4	5050.200	-61.12	11.43	-49.69	-25.00	-24.69	Horizontal
5	7575.300	-60.75	14.20	-46.55	-25.00	-21.55	Horizontal
6	17675.700	-65.03	21.34	-43.69	-25.00	-18.69	Horizontal
7	22725.900	-68.34	1.61	-66.73	-25.00	-41.73	Horizontal
8	25251.000	-67.29	0.92	-66.37	-25.00	-41.37	Horizontal
9	39.737	-68.60	29.26	-39.34	-25.00	-14.34	Vertical
10	122.319	-62.40	22.94	-39.46	-25.00	-14.46	Vertical
11	899.958	-79.57	45.27	-34.30	-25.00	-9.30	Vertical
12	5050.200	-60.22	11.43	-48.79	-25.00	-23.79	Vertical
13	7575.300	-61.94	14.20	-47.74	-25.00	-22.74	Vertical
14	17675.700	-65.11	21.34	-43.77	-25.00	-18.77	Vertical
15	22725.900	-67.38	1.52	-65.86	-25.00	-40.86	Vertical
16	25251.000	-66.38	0.82	-65.56	-25.00	-40.56	Vertical
Highest Channel							
1	217.644	-70.56	28.22	-42.34	-25.00	-17.34	Horizontal
2	276.382	-68.68	30.13	-38.55	-25.00	-13.55	Horizontal
3	887.398	-80.05	44.96	-35.09	-25.00	-10.09	Horizontal
4	5080.400	-60.37	11.48	-48.89	-25.00	-23.89	Horizontal
5	7620.600	-60.01	14.18	-45.83	-25.00	-20.83	Horizontal
6	17781.400	-65.17	21.68	-43.49	-25.00	-18.49	Horizontal
7	22861.800	-67.85	1.65	-66.20	-25.00	-41.20	Horizontal
8	25402.000	-68.26	0.82	-67.44	-25.00	-42.44	Horizontal
9	123.181	-63.06	22.86	-40.20	-25.00	-15.20	Vertical
10	280.294	-73.52	30.58	-42.94	-25.00	-17.94	Vertical
11	611.462	-78.74	40.45	-38.29	-25.00	-13.29	Vertical
12	5080.400	-60.12	11.48	-48.64	-25.00	-23.64	Vertical
13	7620.600	-60.05	14.18	-45.87	-25.00	-20.87	Vertical
14	17781.400	-65.84	21.68	-44.16	-25.00	-19.16	Vertical
15	22861.800	-69.00	1.55	-67.45	-25.00	-42.45	Vertical
16	25402.000	-67.48	0.72	-66.76	-25.00	-41.76	Vertical

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UTTR-RF-FCC4G-V1.1

5G NR n7_Antenna 0_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	119.767	-66.72	23.19	-43.53	-13.00	-30.53	Horizontal
2	200.043	-70.56	27.76	-42.80	-13.00	-29.80	Horizontal
3	427.292	-75.25	35.77	-39.48	-13.00	-26.48	Horizontal
4	5020.000	-59.61	11.38	-48.23	-13.00	-35.23	Horizontal
5	7530.000	-60.42	14.22	-46.20	-13.00	-33.20	Horizontal
6	17570.000	-65.42	21.00	-44.42	-13.00	-31.42	Horizontal
7	37.830	-66.41	30.96	-35.45	-13.00	-22.45	Vertical
8	72.211	-62.11	20.49	-41.62	-13.00	-28.62	Vertical
9	118.096	-61.46	23.36	-38.10	-13.00	-25.10	Vertical
10	5020.000	-59.75	11.38	-48.37	-13.00	-35.37	Vertical
11	7530.000	-60.42	14.22	-46.20	-13.00	-33.20	Vertical
12	17570.000	-64.52	21.00	-43.52	-13.00	-30.52	Vertical
Middle Channel							
1	44.154	-69.28	25.99	-43.29	-13.00	-30.29	Horizontal
2	198.642	-71.31	27.71	-43.60	-13.00	-30.60	Horizontal
3	899.958	-80.19	45.27	-34.92	-13.00	-21.92	Horizontal
4	5070.000	-60.01	11.47	-48.54	-13.00	-35.54	Horizontal
5	7605.000	-61.42	14.19	-47.23	-13.00	-34.23	Horizontal
6	17745.000	-63.76	21.56	-42.20	-13.00	-29.20	Horizontal
7	38.365	-66.85	30.58	-36.27	-13.00	-23.27	Vertical
8	71.705	-62.35	20.51	-41.84	-13.00	-28.84	Vertical
9	887.398	-79.75	44.96	-34.79	-13.00	-21.79	Vertical
10	5070.000	-59.74	11.47	-48.27	-13.00	-35.27	Vertical
11	7605.000	-61.64	14.19	-47.45	-13.00	-34.45	Vertical
12	17745.000	-64.05	21.56	-42.49	-13.00	-29.49	Vertical
Highest Channel							
1	44.154	-68.76	25.99	-42.77	-13.00	-29.77	Horizontal
2	200.043	-71.47	27.76	-43.71	-13.00	-30.71	Horizontal
3	906.304	-79.52	45.37	-34.15	-13.00	-21.15	Horizontal
4	5120.000	-61.21	11.55	-49.66	-13.00	-36.66	Horizontal
5	7680.000	-60.27	14.16	-46.11	-13.00	-33.11	Horizontal
6	17920.000	-63.23	22.12	-41.11	-13.00	-28.11	Horizontal
7	38.096	-64.75	30.79	-33.96	-13.00	-20.96	Vertical
8	71.705	-62.57	20.51	-42.06	-13.00	-29.06	Vertical
9	118.096	-63.82	23.36	-40.46	-13.00	-27.46	Vertical
10	5120.000	-60.46	11.55	-48.91	-13.00	-35.91	Vertical
11	7680.000	-61.21	14.16	-47.05	-13.00	-34.05	Vertical
12	17920.000	-63.17	22.12	-41.05	-13.00	-28.05	Vertical

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UTTR-RF-FCC4G-V1.1

5G NR n7_Antenna 4_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	119.767	-66.53	23.19	-43.34	-13.00	-30.34	Horizontal
2	427.292	-75.70	35.77	-39.93	-13.00	-26.93	Horizontal
3	932.141	-78.85	44.98	-33.87	-13.00	-20.87	Horizontal
4	5020.000	-59.61	11.38	-48.23	-13.00	-35.23	Horizontal
5	7530.000	-60.52	14.22	-46.30	-13.00	-33.30	Horizontal
6	17570.000	-64.44	21.00	-43.44	-13.00	-30.44	Horizontal
7	38.365	-65.06	30.58	-34.48	-13.00	-21.48	Vertical
8	118.096	-61.35	23.36	-37.99	-13.00	-24.99	Vertical
9	288.284	-74.05	31.13	-42.92	-13.00	-29.92	Vertical
10	5020.000	-59.61	11.38	-48.23	-13.00	-35.23	Vertical
11	7530.000	-60.81	14.22	-46.59	-13.00	-33.59	Vertical
12	17570.000	-64.22	21.00	-43.22	-13.00	-30.22	Vertical
Middle Channel							
1	71.203	-66.59	20.51	-46.08	-13.00	-33.08	Horizontal
2	122.319	-68.11	22.94	-45.17	-13.00	-32.17	Horizontal
3	925.613	-79.12	45.33	-33.79	-13.00	-20.79	Horizontal
4	5070.000	-60.34	11.47	-48.87	-13.00	-35.87	Horizontal
5	7605.000	-61.42	14.19	-47.23	-13.00	-34.23	Horizontal
6	17745.000	-63.27	21.56	-41.71	-13.00	-28.71	Horizontal
7	38.096	-65.18	30.79	-34.39	-13.00	-21.39	Vertical
8	71.705	-62.45	20.51	-41.94	-13.00	-28.94	Vertical
9	118.096	-62.68	23.36	-39.32	-13.00	-26.32	Vertical
10	5070.000	-60.78	11.47	-49.31	-13.00	-36.31	Vertical
11	7605.000	-60.41	14.19	-46.22	-13.00	-33.22	Vertical
12	17745.000	-63.14	21.56	-41.58	-13.00	-28.58	Vertical
Highest Channel							
1	50.461	-67.86	24.46	-43.40	-13.00	-30.40	Horizontal
2	142.769	-68.88	23.57	-45.31	-13.00	-32.31	Horizontal
3	290.317	-73.31	31.28	-42.03	-13.00	-29.03	Horizontal
4	5120.000	-59.72	11.55	-48.17	-13.00	-35.17	Horizontal
5	7680.000	-60.27	14.16	-46.11	-13.00	-33.11	Horizontal
6	17920.000	-63.37	22.12	-41.25	-13.00	-28.25	Horizontal
7	38.096	-65.33	30.79	-34.54	-13.00	-21.54	Vertical
8	71.203	-62.61	20.51	-42.10	-13.00	-29.10	Vertical
9	906.304	-79.65	45.37	-34.28	-13.00	-21.28	Vertical
10	5120.000	-60.60	11.55	-49.05	-13.00	-36.05	Vertical
11	7680.000	-60.56	14.16	-46.40	-13.00	-33.40	Vertical
12	17920.000	-63.57	22.12	-41.45	-13.00	-28.45	Vertical

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5.8.2 LTE Band 12(17) and 5G NR n12(17)

LTE Band 12_Antenna 0_ 10 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	222.281	-70.42	28.32	-42.10	-13.00	-29.10	Horizontal
2	280.294	-69.34	30.58	-38.76	-13.00	-25.76	Horizontal
3	554.171	-78.84	39.56	-39.28	-13.00	-26.28	Horizontal
4	1408.000	-58.01	0.61	-57.40	-13.00	-44.40	Horizontal
5	2112.000	-58.89	5.33	-53.56	-13.00	-40.56	Horizontal
6	17600.000	-64.13	21.10	-43.03	-13.00	-30.03	Horizontal
7	39.459	-70.39	29.57	-40.82	-13.00	-27.82	Vertical
8	124.925	-62.36	23.12	-39.24	-13.00	-26.24	Vertical
9	276.382	-73.27	30.13	-43.14	-13.00	-30.14	Vertical
10	1408.000	-58.19	0.61	-57.58	-13.00	-44.58	Vertical
11	2112.000	-59.73	5.33	-54.40	-13.00	-41.40	Vertical
12	17600.000	-64.94	21.10	-43.84	-13.00	-30.84	Vertical
Middle Channel							
1	217.644	-70.66	28.22	-42.44	-13.00	-29.44	Horizontal
2	282.270	-69.97	30.70	-39.27	-13.00	-26.27	Horizontal
3	535.038	-79.45	39.42	-40.03	-13.00	-27.03	Horizontal
4	1415.000	-58.53	0.61	-57.92	-13.00	-44.92	Horizontal
5	2122.500	-59.74	5.36	-54.38	-13.00	-41.38	Horizontal
6	17687.500	-65.66	21.37	-44.29	-13.00	-31.29	Horizontal
7	44.154	-65.02	25.99	-39.03	-13.00	-26.03	Vertical
8	124.925	-62.63	23.12	-39.51	-13.00	-26.51	Vertical
9	286.265	-74.63	30.97	-43.66	-13.00	-30.66	Vertical
10	1415.000	-58.11	0.61	-57.50	-13.00	-44.50	Vertical
11	2122.500	-60.01	5.36	-54.65	-13.00	-41.65	Vertical
12	17687.500	-65.36	21.37	-43.99	-13.00	-30.99	Vertical
Highest Channel							
1	217.644	-71.15	28.22	-42.93	-13.00	-29.93	Horizontal
2	280.294	-68.95	30.58	-38.37	-13.00	-25.37	Horizontal
3	558.079	-78.96	39.67	-39.29	-13.00	-26.29	Horizontal
4	1422.000	-57.86	0.63	-57.23	-13.00	-44.23	Horizontal
5	2133.000	-60.48	5.39	-55.09	-13.00	-42.09	Horizontal
6	17775.000	-66.17	21.66	-44.51	-13.00	-31.51	Horizontal
7	37.565	-69.58	31.09	-38.49	-13.00	-25.49	Vertical
8	123.181	-62.34	22.86	-39.48	-13.00	-26.48	Vertical
9	280.294	-73.97	30.58	-43.39	-13.00	-30.39	Vertical
10	1422.000	-58.51	0.63	-57.88	-13.00	-44.88	Vertical
11	2133.000	-59.11	5.39	-53.72	-13.00	-40.72	Vertical
12	17775.000	-65.59	21.66	-43.93	-13.00	-30.93	Vertical

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5G NR n12_Antenna 0_15 MHz_QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	71.705	-67.11	20.51	-46.60	-13.00	-33.60	Horizontal
2	142.769	-67.94	23.57	-44.37	-13.00	-31.37	Horizontal
3	427.292	-76.21	35.77	-40.44	-13.00	-27.44	Horizontal
4	1408.000	-44.01	1.80	-42.21	-13.00	-29.21	Horizontal
5	2112.000	-50.46	4.27	-46.19	-13.00	-33.19	Horizontal
6	17600.000	-65.13	21.86	-43.27	-13.00	-30.27	Vertical
7	38.636	-67.05	30.36	-36.69	-13.00	-23.69	Vertical
8	112.427	-65.19	23.15	-42.04	-13.00	-29.04	Vertical
9	395.507	-75.69	34.74	-40.95	-13.00	-27.95	Vertical
10	1408.000	-40.14	1.80	-38.34	-13.00	-25.34	Vertical
Middle Channel							
1	50.461	-68.96	24.46	-44.50	-13.00	-31.50	Horizontal
2	128.486	-68.51	23.14	-45.37	-13.00	-32.37	Horizontal
3	290.317	-73.14	31.28	-41.86	-13.00	-28.86	Horizontal
4	1415.000	-43.41	1.81	-41.60	-13.00	-28.60	Horizontal
5	2122.500	-50.03	4.31	-45.72	-13.00	-32.72	Horizontal
6	17687.500	-64.93	22.09	-42.84	-13.00	-29.84	Vertical
7	38.096	-66.50	30.79	-35.71	-13.00	-22.71	Vertical
8	71.705	-63.34	20.51	-42.83	-13.00	-29.83	Vertical
9	113.220	-65.34	23.03	-42.31	-13.00	-29.31	Vertical
10	1415.000	-39.50	1.81	-37.69	-13.00	-24.69	Vertical
Highest Channel							
1	128.486	-68.13	23.14	-44.99	-13.00	-31.99	Horizontal
2	290.317	-74.44	31.28	-43.16	-13.00	-30.16	Horizontal
3	558.079	-79.23	39.67	-39.56	-13.00	-26.56	Horizontal
4	1422.000	-39.40	1.84	-37.56	-13.00	-24.56	Horizontal
5	2133.000	-46.59	4.34	-42.25	-13.00	-29.25	Horizontal
6	17775.000	-65.55	22.35	-43.20	-13.00	-30.20	Vertical
7	39.182	-66.84	29.87	-36.97	-13.00	-23.97	Vertical
8	71.705	-64.28	20.51	-43.77	-13.00	-30.77	Vertical
9	124.925	-66.24	23.12	-43.12	-13.00	-30.12	Vertical
10	1422.000	-32.46	1.84	-30.62	-13.00	-17.62	Vertical

5.8.3 LTE Band 13

LTE Band 13_Antenna 0_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Middle Channel							
1	220.724	-70.91	28.34	-42.57	-13.00	-29.57	Horizontal
2	284.261	-68.92	30.82	-38.10	-13.00	-25.10	Horizontal
3	590.351	-79.57	40.05	-39.52	-13.00	-26.52	Horizontal
4	1559-1610	-57.66	1.29	-56.37	-40.00	-16.37	Horizontal
5	2346.000	-57.79	5.93	-51.86	-13.00	-38.86	Horizontal
6	17204.000	-62.89	20.20	-42.69	-13.00	-29.69	Horizontal
7	42.931	-67.07	27.84	-39.23	-13.00	-26.23	Vertical
8	119.767	-63.23	23.19	-40.04	-13.00	-27.04	Vertical
9	280.294	-72.98	30.58	-42.40	-13.00	-29.40	Vertical
10	1559-1610	-57.37	1.29	-56.08	-40.00	-16.08	Vertical
11	2346.000	-59.13	5.93	-53.20	-13.00	-40.20	Vertical
12	17204.000	-62.81	20.20	-42.61	-13.00	-29.61	Vertical

Note: Emissions in the GPS band were wideband emissions therefore the -40 dBm/MHz limit was used.

5.8.4 LTE Band 25(2) and 5G NR n25(2)

LTE Band 25_Antenna 1_20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	42.931	-70.91	27.84	-43.07	-13.00	-30.07	Horizontal
2	220.724	-70.43	28.34	-42.09	-13.00	-29.09	Horizontal
3	280.294	-69.56	30.58	-38.98	-13.00	-25.98	Horizontal
4	3720.000	-60.24	11.06	-49.18	-13.00	-36.18	Horizontal
5	5580.000	-62.59	12.39	-50.20	-13.00	-37.20	Horizontal
6	16740.000	-62.94	19.72	-43.22	-13.00	-30.22	Horizontal
7	44.154	-66.04	25.99	-40.05	-13.00	-27.05	Vertical
8	122.319	-62.94	22.94	-40.00	-13.00	-27.00	Vertical
9	282.270	-73.42	30.70	-42.72	-13.00	-29.72	Vertical
10	3720.000	-60.83	11.06	-49.77	-13.00	-36.77	Vertical
11	5580.000	-62.84	12.39	-50.45	-13.00	-37.45	Vertical
12	16740.000	-63.54	19.72	-43.82	-13.00	-30.82	Vertical
Middle Channel							
1	216.120	-71.02	28.12	-42.90	-13.00	-29.90	Horizontal
2	282.270	-69.64	30.70	-38.94	-13.00	-25.94	Horizontal
3	646.822	-78.44	40.81	-37.63	-13.00	-24.63	Horizontal
4	3760.000	-61.20	11.30	-49.90	-13.00	-36.90	Horizontal
5	5640.000	-62.07	12.52	-49.55	-13.00	-36.55	Horizontal
6	16920.000	-64.05	19.77	-44.28	-13.00	-31.28	Horizontal
7	38.636	-70.58	30.36	-40.22	-13.00	-27.22	Vertical
8	123.181	-62.68	22.86	-39.82	-13.00	-26.82	Vertical
9	906.304	-79.04	45.37	-33.67	-13.00	-20.67	Vertical
10	3760.000	-60.78	11.30	-49.48	-13.00	-36.48	Vertical
11	5640.000	-61.37	12.52	-48.85	-13.00	-35.85	Vertical
12	16920.000	-63.31	19.77	-43.54	-13.00	-30.54	Vertical
Highest Channel							
1	220.724	-71.48	28.34	-43.14	-13.00	-30.14	Horizontal
2	282.270	-69.37	30.70	-38.67	-13.00	-25.67	Horizontal
3	925.613	-79.83	45.33	-34.50	-13.00	-21.50	Horizontal
4	3810.000	-62.37	11.59	-50.78	-13.00	-37.78	Horizontal
5	5715.000	-63.05	12.68	-50.37	-13.00	-37.37	Horizontal
6	17145.000	-63.74	20.08	-43.66	-13.00	-30.66	Horizontal
7	36.781	-70.54	31.36	-39.18	-13.00	-26.18	Vertical
8	124.925	-62.86	23.12	-39.74	-13.00	-26.74	Vertical
9	280.294	-72.38	30.58	-41.80	-13.00	-28.80	Vertical
10	3810.000	-61.53	11.59	-49.94	-13.00	-36.94	Vertical
11	5715.000	-63.16	12.68	-50.48	-13.00	-37.48	Vertical
12	17145.000	-62.75	20.08	-42.67	-13.00	-29.67	Vertical

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LTE Band 25_Antenna 4_ 20 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	222.281	-71.61	28.32	-43.29	-13.00	-30.29	Horizontal
2	280.294	-69.34	30.58	-38.76	-13.00	-25.76	Horizontal
3	744.427	-79.96	42.29	-37.67	-13.00	-24.67	Horizontal
4	3720.000	-60.83	11.06	-49.77	-13.00	-36.77	Horizontal
5	5580.000	-62.74	12.39	-50.35	-13.00	-37.35	Horizontal
6	16740.000	-63.96	19.72	-44.24	-13.00	-31.24	Horizontal
7	39.182	-65.77	29.87	-35.90	-13.00	-22.90	Vertical
8	123.181	-63.08	22.86	-40.22	-13.00	-27.22	Vertical
9	280.294	-73.36	30.58	-42.78	-13.00	-29.78	Vertical
10	3720.000	-60.19	11.06	-49.13	-13.00	-36.13	Vertical
11	5580.000	-62.54	12.39	-50.15	-13.00	-37.15	Vertical
12	16740.000	-64.44	19.72	-44.72	-13.00	-31.72	Vertical
Middle Channel							
1	53.756	-68.94	22.56	-46.38	-13.00	-33.38	Horizontal
2	286.265	-70.49	30.97	-39.52	-13.00	-26.52	Horizontal
3	713.692	-78.63	41.95	-36.68	-13.00	-23.68	Horizontal
4	3760.000	-61.22	11.30	-49.92	-13.00	-36.92	Horizontal
5	5640.000	-61.49	12.52	-48.97	-13.00	-35.97	Horizontal
6	16920.000	-63.99	19.77	-44.22	-13.00	-31.22	Horizontal
7	42.931	-65.38	27.84	-37.54	-13.00	-24.54	Vertical
8	123.181	-61.63	22.86	-38.77	-13.00	-25.77	Vertical
9	286.265	-73.14	30.97	-42.17	-13.00	-29.17	Vertical
10	3760.000	-61.82	11.30	-50.52	-13.00	-37.52	Vertical
11	5640.000	-61.76	12.52	-49.24	-13.00	-36.24	Vertical
12	16920.000	-64.06	19.77	-44.29	-13.00	-31.29	Vertical
Highest Channel							
1	220.724	-71.12	28.34	-42.78	-13.00	-29.78	Horizontal
2	286.265	-69.34	30.97	-38.37	-13.00	-25.37	Horizontal
3	906.304	-79.11	45.37	-33.74	-13.00	-20.74	Horizontal
4	3810.000	-62.49	11.59	-50.90	-13.00	-37.90	Horizontal
5	5715.000	-62.80	12.68	-50.12	-13.00	-37.12	Horizontal
6	17145.000	-61.62	20.08	-41.54	-13.00	-28.54	Horizontal
7	42.931	-67.49	27.84	-39.65	-13.00	-26.65	Vertical
8	124.925	-62.47	23.12	-39.35	-13.00	-26.35	Vertical
9	280.294	-74.12	30.58	-43.54	-13.00	-30.54	Vertical
10	3810.000	-61.45	11.59	-49.86	-13.00	-36.86	Vertical
11	5715.000	-62.63	12.68	-49.95	-13.00	-36.95	Vertical
12	17145.000	-63.36	20.08	-43.28	-13.00	-30.28	Vertical

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5G NR n25_Antenna 1_20 MHz_QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	47.703	-68.79	25.15	-43.64	-13.00	-30.64	Horizontal
2	148.917	-69.17	24.23	-44.94	-13.00	-31.94	Horizontal
3	439.473	-76.33	36.09	-40.24	-13.00	-27.24	Horizontal
4	3720.000	-60.05	11.06	-48.99	-13.00	-35.99	Horizontal
5	5580.000	-62.76	12.39	-50.37	-13.00	-37.37	Horizontal
6	16740.000	-63.84	19.72	-44.12	-13.00	-31.12	Horizontal
7	39.737	-65.21	29.26	-35.95	-13.00	-22.95	Vertical
8	71.705	-63.86	20.51	-43.35	-13.00	-30.35	Vertical
9	124.050	-65.99	23.11	-42.88	-13.00	-29.88	Vertical
10	3720.000	-61.56	11.06	-50.50	-13.00	-37.50	Vertical
11	5580.000	-62.76	12.39	-50.37	-13.00	-37.37	Vertical
12	16740.000	-63.69	19.72	-43.97	-13.00	-30.97	Vertical
Middle Channel							
1	50.461	-68.91	24.46	-44.45	-13.00	-31.45	Horizontal
2	288.284	-76.17	31.13	-45.04	-13.00	-32.04	Horizontal
3	703.731	-78.81	41.82	-36.99	-13.00	-23.99	Horizontal
4	3765.000	-60.94	11.33	-49.61	-13.00	-36.61	Horizontal
5	5647.500	-60.46	12.54	-47.92	-13.00	-34.92	Horizontal
6	16942.500	-61.81	19.78	-42.03	-13.00	-29.03	Horizontal
7	44.154	-64.40	25.99	-38.41	-13.00	-25.41	Vertical
8	57.265	-66.21	21.12	-45.09	-13.00	-32.09	Vertical
9	723.793	-79.07	42.03	-37.04	-13.00	-24.04	Vertical
10	3765.000	-60.59	11.33	-49.26	-13.00	-36.26	Vertical
11	5647.500	-60.70	12.54	-48.16	-13.00	-35.16	Vertical
12	16942.500	-61.92	19.78	-42.14	-13.00	-29.14	Vertical
Highest Channel							
1	44.154	-68.31	25.99	-42.32	-13.00	-29.32	Horizontal
2	280.294	-75.06	30.58	-44.48	-13.00	-31.48	Horizontal
3	899.958	-80.47	45.27	-35.20	-13.00	-22.20	Horizontal
4	3810.000	-61.64	11.59	-50.05	-13.00	-37.05	Horizontal
5	5715.000	-62.16	12.68	-49.48	-13.00	-36.48	Horizontal
6	17145.000	-62.88	20.08	-42.80	-13.00	-29.80	Horizontal
7	44.154	-66.11	25.99	-40.12	-13.00	-27.12	Vertical
8	56.864	-64.49	21.31	-43.18	-13.00	-30.18	Vertical
9	718.725	-78.36	41.88	-36.48	-13.00	-23.48	Vertical
10	3810.000	-60.55	11.59	-48.96	-13.00	-35.96	Vertical
11	5715.000	-63.02	12.68	-50.34	-13.00	-37.34	Vertical
12	17145.000	-62.95	20.08	-42.87	-13.00	-29.87	Vertical

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5G NR n25_Antenna 4_20 MHz_QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	44.154	-69.26	25.99	-43.27	-13.00	-30.27	Horizontal
2	125.806	-68.60	22.88	-45.72	-13.00	-32.72	Horizontal
3	749.676	-79.21	42.15	-37.06	-13.00	-24.06	Horizontal
4	3720.000	-61.19	11.06	-50.13	-13.00	-37.13	Horizontal
5	5580.000	-61.98	12.39	-49.59	-13.00	-36.59	Horizontal
6	16740.000	-63.02	19.72	-43.30	-13.00	-30.30	Horizontal
7	38.365	-71.44	30.58	-40.86	-13.00	-27.86	Vertical
8	44.154	-64.03	25.99	-38.04	-13.00	-25.04	Vertical
9	118.096	-70.18	23.36	-46.82	-13.00	-33.82	Vertical
10	3720.000	-59.96	11.06	-48.90	-13.00	-35.90	Vertical
11	5580.000	-63.01	12.39	-50.62	-13.00	-37.62	Vertical
12	16740.000	-64.12	19.72	-44.40	-13.00	-31.40	Vertical
Middle Channel							
1	50.461	-67.78	24.46	-43.32	-13.00	-30.32	Horizontal
2	284.261	-75.28	30.82	-44.46	-13.00	-31.46	Horizontal
3	899.958	-79.25	45.27	-33.98	-13.00	-20.98	Horizontal
4	3765.000	-61.75	11.33	-50.42	-13.00	-37.42	Horizontal
5	5647.500	-61.11	12.54	-48.57	-13.00	-35.57	Horizontal
6	16942.500	-61.98	19.78	-42.20	-13.00	-29.20	Horizontal
7	38.096	-69.54	30.79	-38.75	-13.00	-25.75	Vertical
8	44.154	-65.63	25.99	-39.64	-13.00	-26.64	Vertical
9	906.304	-78.80	45.37	-33.43	-13.00	-20.43	Vertical
10	3765.000	-61.20	11.33	-49.87	-13.00	-36.87	Vertical
11	5647.500	-61.27	12.54	-48.73	-13.00	-35.73	Vertical
12	16942.500	-61.26	19.78	-41.48	-13.00	-28.48	Vertical
Highest Channel							
1	44.154	-68.54	25.99	-42.55	-13.00	-29.55	Horizontal
2	284.261	-74.80	30.82	-43.98	-13.00	-30.98	Horizontal
3	728.897	-79.50	42.03	-37.47	-13.00	-24.47	Horizontal
4	3810.000	-61.00	11.59	-49.41	-13.00	-36.41	Horizontal
5	5715.000	-61.76	12.68	-49.08	-13.00	-36.08	Horizontal
6	17145.000	-61.41	20.08	-41.33	-13.00	-28.33	Horizontal
7	44.154	-67.51	25.99	-41.52	-13.00	-28.52	Vertical
8	56.466	-65.90	21.43	-44.47	-13.00	-31.47	Vertical
9	821.387	-80.15	43.99	-36.16	-13.00	-23.16	Vertical
10	3810.000	-63.97	11.59	-52.38	-13.00	-39.38	Vertical
11	5715.000	-64.35	12.68	-51.67	-13.00	-38.67	Vertical
12	17145.000	-63.98	20.08	-43.90	-13.00	-30.90	Vertical

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5.8.5 LTE Band 26 and 5G NR n26_Part 90S

LTE Band 26_Antenna 0_10 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Middle Channel							
1	222.281	-70.55	28.32	-42.23	-13.00	-29.23	Horizontal
2	286.265	-69.43	30.97	-38.46	-13.00	-25.46	Horizontal
3	633.328	-79.53	40.85	-38.68	-13.00	-25.68	Horizontal
4	1638.000	-58.73	1.93	-56.80	-13.00	-43.80	Horizontal
5	2457.000	-59.22	6.22	-53.00	-13.00	-40.00	Horizontal
6	17199.000	-62.70	20.19	-42.51	-13.00	-29.51	Horizontal
7	124.050	-62.41	23.11	-39.30	-13.00	-26.30	Vertical
8	284.261	-74.25	30.82	-43.43	-13.00	-30.43	Vertical
9	624.490	-78.83	40.58	-38.25	-13.00	-25.25	Vertical
10	1638.000	-59.09	1.93	-57.16	-13.00	-44.16	Vertical
11	2457.000	-58.93	6.22	-52.71	-13.00	-39.71	Vertical
12	17199.000	-62.46	20.19	-42.27	-13.00	-29.27	Vertical

5G NR n26_Antenna 0_10 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Middle Channel							
1	50.461	-68.31	24.46	-43.85	-13.00	-30.85	Horizontal
2	290.317	-75.52	31.28	-44.24	-13.00	-31.24	Horizontal
3	624.490	-78.79	40.58	-38.21	-13.00	-25.21	Horizontal
4	1638.000	-33.50	2.56	-30.94	-13.00	-17.94	Horizontal
5	2457.000	-39.58	5.30	-34.28	-13.00	-21.28	Horizontal
6	17199.000	-63.60	21.05	-42.55	-13.00	-29.55	Vertical
7	44.154	-67.39	25.99	-41.40	-13.00	-28.40	Vertical
8	57.265	-65.86	21.12	-44.74	-13.00	-31.74	Vertical
9	586.217	-78.06	40.11	-37.95	-13.00	-24.95	Vertical
10	1638.000	-36.62	2.56	-34.06	-13.00	-21.06	Vertical

5.8.6 LTE Band 26(5) and 5G NR n26(5)_Part 22

LTE Band 26_Antenna 0_15 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	217.644	-70.87	28.22	-42.65	-13.00	-29.65	Horizontal
2	278.331	-68.93	30.36	-38.57	-13.00	-25.57	Horizontal
3	693.910	-79.35	41.64	-37.71	-13.00	-24.71	Horizontal
4	1663.000	-58.93	2.14	-56.79	-13.00	-43.79	Horizontal
5	2494.500	-57.61	6.32	-51.29	-13.00	-38.29	Horizontal
6	17461.500	-64.22	20.71	-43.51	-13.00	-30.51	Horizontal
7	37.830	-70.07	30.96	-39.11	-13.00	-26.11	Vertical
8	120.612	-63.49	22.95	-40.54	-13.00	-27.54	Vertical
9	280.294	-73.05	30.58	-42.47	-13.00	-29.47	Vertical
10	1663.000	-58.78	2.14	-56.64	-13.00	-43.64	Vertical
11	2494.500	-59.41	6.32	-53.09	-13.00	-40.09	Vertical
12	17461.500	-64.24	20.71	-43.53	-13.00	-30.53	Vertical
Middle Channel							
1	216.120	-69.64	28.12	-41.52	-13.00	-28.52	Horizontal
2	280.294	-69.09	30.58	-38.51	-13.00	-25.51	Horizontal
3	620.117	-77.99	40.79	-37.20	-13.00	-24.20	Horizontal
4	1673.000	-59.40	2.22	-57.18	-13.00	-44.18	Horizontal
5	2509.500	-60.05	6.38	-53.67	-13.00	-40.67	Horizontal
6	17566.500	-65.16	20.99	-44.17	-13.00	-31.17	Horizontal
7	42.931	-66.10	27.84	-38.26	-13.00	-25.26	Vertical
8	120.612	-63.42	22.95	-40.47	-13.00	-27.47	Vertical
9	280.294	-73.17	30.58	-42.59	-13.00	-29.59	Vertical
10	1673.000	-57.72	2.22	-55.50	-13.00	-42.50	Vertical
11	2509.500	-58.89	6.38	-52.51	-13.00	-39.51	Vertical
12	17566.500	-64.43	20.99	-43.44	-13.00	-30.44	Vertical
Highest Channel							
1	222.281	-70.53	28.32	-42.21	-13.00	-29.21	Horizontal
2	282.270	-69.55	30.70	-38.85	-13.00	-25.85	Horizontal
3	620.117	-79.23	40.79	-38.44	-13.00	-25.44	Horizontal
4	1683.000	-58.70	2.31	-56.39	-13.00	-43.39	Horizontal
5	2524.500	-59.88	6.43	-53.45	-13.00	-40.45	Horizontal
6	17671.500	-65.11	21.33	-43.78	-13.00	-30.78	Horizontal
7	38.908	-68.70	30.14	-38.56	-13.00	-25.56	Vertical
8	124.925	-63.17	23.12	-40.05	-13.00	-27.05	Vertical
9	280.294	-73.72	30.58	-43.14	-13.00	-30.14	Vertical
10	1683.000	-59.32	2.31	-57.01	-13.00	-44.01	Vertical
11	2524.500	-59.82	6.43	-53.39	-13.00	-40.39	Vertical
12	17671.500	-65.41	21.33	-44.08	-13.00	-31.08	Vertical

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5G NR n26_Antenna 0_20 MHz_QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	44.154	-68.70	25.99	-42.71	-13.00	-29.71	Horizontal
2	290.317	-76.90	31.28	-45.62	-13.00	-32.62	Horizontal
3	669.952	-78.82	41.28	-37.54	-13.00	-24.54	Horizontal
4	1668.000	-40.77	2.68	-38.09	-13.00	-25.09	Horizontal
5	2502.000	-46.99	5.44	-41.55	-13.00	-28.55	Horizontal
6	17514.000	-62.96	21.62	-41.34	-13.00	-28.34	Vertical
7	44.154	-63.13	25.99	-37.14	-13.00	-24.14	Vertical
8	56.071	-66.79	21.55	-45.24	-13.00	-32.24	Vertical
9	684.226	-78.80	41.26	-37.54	-13.00	-24.54	Vertical
10	1668.000	-41.82	2.68	-39.14	-13.00	-26.14	Vertical
Middle Channel							
1	47.703	-69.74	25.15	-44.59	-13.00	-31.59	Horizontal
2	284.261	-75.02	30.82	-44.20	-13.00	-31.20	Horizontal
3	628.894	-78.52	40.60	-37.92	-13.00	-24.92	Horizontal
4	1673.000	-40.94	2.69	-38.25	-13.00	-25.25	Horizontal
5	2509.500	-46.47	5.46	-41.01	-13.00	-28.01	Horizontal
6	17566.500	-64.92	21.77	-43.15	-13.00	-30.15	Vertical
7	38.096	-73.32	30.79	-42.53	-13.00	-29.53	Vertical
8	284.261	-76.29	30.82	-45.47	-13.00	-32.47	Vertical
9	646.822	-78.89	40.81	-38.08	-13.00	-25.08	Vertical
10	1673.000	-44.08	2.69	-41.39	-13.00	-28.39	Vertical
Highest Channel							
1	44.154	-69.43	25.99	-43.44	-13.00	-30.44	Horizontal
2	284.261	-75.35	30.82	-44.53	-13.00	-31.53	Horizontal
3	586.217	-79.52	40.11	-39.41	-13.00	-26.41	Horizontal
4	1678.000	-38.05	2.71	-35.34	-13.00	-22.34	Horizontal
5	2517.000	-43.02	5.48	-37.54	-13.00	-24.54	Horizontal
6	17619.000	-63.37	21.91	-41.46	-13.00	-28.46	Vertical
7	38.096	-71.32	30.79	-40.53	-13.00	-27.53	Vertical
8	57.265	-66.71	21.12	-45.59	-13.00	-32.59	Vertical
9	286.265	-75.72	30.97	-44.75	-13.00	-31.75	Vertical
10	1678.000	-39.45	2.71	-36.74	-13.00	-23.74	Vertical

5.8.7 LTE Band 30

LTE Band 30_Antenna 0_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Middle Channel							
1	220.724	-73.26	28.34	-44.92	-40.00	-4.92	Horizontal
2	280.294	-75.40	30.58	-44.82	-40.00	-4.82	Horizontal
3	607.181	-85.28	40.34	-44.94	-40.00	-4.94	Horizontal
4	3440.000	-60.59	9.61	-50.98	-40.00	-10.98	Horizontal
5	5151.196	-59.96	11.60	-48.36	-40.00	-8.36	Horizontal
6	16170.000	-64.07	19.54	-44.53	-40.00	-4.53	Vertical
7	123.181	-66.72	22.86	-43.86	-40.00	-3.86	Vertical
8	280.294	-75.07	30.58	-44.49	-40.00	-4.49	Vertical
9	535.038	-82.80	39.42	-43.38	-40.00	-3.38	Vertical
10	3440.000	-60.73	9.61	-51.12	-40.00	-11.12	Vertical

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5.8.8 LTE Band 41(38), 41C and 5G NR n41(38)

LTE Band 41_Antenna 0_20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	119.767	-68.43	23.19	-45.24	-25.00	-20.24	Horizontal
2	439.473	-77.22	36.09	-41.13	-25.00	-16.13	Horizontal
3	919.132	-78.82	45.27	-33.55	-25.00	-8.55	Horizontal
4	5012.000	-59.86	11.36	-48.50	-25.00	-23.50	Horizontal
5	7518.000	-60.96	14.22	-46.74	-25.00	-21.74	Horizontal
6	17542.000	-64.57	20.91	-43.66	-25.00	-18.66	Horizontal
7	37.830	-70.18	30.96	-39.22	-25.00	-14.22	Vertical
8	633.328	-78.60	40.85	-37.75	-25.00	-12.75	Vertical
9	887.398	-79.29	44.96	-34.33	-25.00	-9.33	Vertical
10	5012.000	-59.74	11.36	-48.38	-25.00	-23.38	Vertical
11	7518.000	-60.53	14.22	-46.31	-25.00	-21.31	Vertical
12	17542.000	-65.22	20.91	-44.31	-25.00	-19.31	Vertical
Middle Channel							
1	44.154	-68.88	25.99	-42.89	-25.00	-17.89	Horizontal
2	436.396	-77.11	36.17	-40.94	-25.00	-15.94	Horizontal
3	912.695	-79.48	45.32	-34.16	-25.00	-9.16	Horizontal
4	5186.000	-62.97	11.67	-51.30	-25.00	-26.30	Horizontal
5	7779.000	-61.77	14.12	-47.65	-25.00	-22.65	Horizontal
6	15558.000	-64.83	20.37	-44.46	-25.00	-19.46	Horizontal
7	35.263	-70.11	31.43	-38.68	-25.00	-13.68	Vertical
8	44.154	-63.18	25.99	-37.19	-25.00	-12.19	Vertical
9	744.427	-78.78	42.29	-36.49	-25.00	-11.49	Vertical
10	5186.000	-62.42	11.67	-50.75	-25.00	-25.75	Vertical
11	7779.000	-60.65	14.12	-46.53	-25.00	-21.53	Vertical
12	15558.000	-64.50	20.37	-44.13	-25.00	-19.13	Vertical
Highest Channel							
1	523.876	-79.15	39.04	-40.11	-25.00	-15.11	Horizontal
2	754.963	-78.96	42.08	-36.88	-25.00	-11.88	Horizontal
3	906.304	-80.01	45.37	-34.64	-25.00	-9.64	Horizontal
4	5360.000	-63.31	11.97	-51.34	-25.00	-26.34	Horizontal
5	8040.000	-61.63	14.04	-47.59	-25.00	-22.59	Horizontal
6	16080.000	-63.71	19.50	-44.21	-25.00	-19.21	Horizontal
7	531.291	-78.54	39.35	-39.19	-25.00	-14.19	Vertical
8	787.475	-78.06	43.08	-34.98	-25.00	-9.98	Vertical
9	925.613	-79.65	45.33	-34.32	-25.00	-9.32	Vertical
10	5364.350	-63.59	11.97	-51.62	-25.00	-26.62	Vertical
11	8040.000	-61.78	14.04	-47.74	-25.00	-22.74	Vertical
12	16080.000	-64.02	19.50	-44.52	-25.00	-19.52	Vertical

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LTE Band 41_Antenna 4_20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	442.572	-77.97	36.33	-41.64	-25.00	-16.64	Horizontal
2	744.427	-79.37	42.29	-37.08	-25.00	-12.08	Horizontal
3	899.958	-79.75	45.27	-34.48	-25.00	-9.48	Horizontal
4	5012.000	-59.80	11.36	-48.44	-25.00	-23.44	Horizontal
5	7518.000	-60.74	14.22	-46.52	-25.00	-21.52	Horizontal
6	17542.000	-65.16	20.91	-44.25	-25.00	-19.25	Horizontal
7	637.795	-79.40	40.67	-38.73	-25.00	-13.73	Vertical
8	728.897	-79.12	42.03	-37.09	-25.00	-12.09	Vertical
9	945.334	-79.67	45.26	-34.41	-25.00	-9.41	Vertical
10	5012.000	-59.76	11.36	-48.40	-25.00	-23.40	Vertical
11	7518.000	-61.10	14.22	-46.88	-25.00	-21.88	Vertical
12	17542.000	-64.64	20.91	-43.73	-25.00	-18.73	Vertical
Middle Channel							
1	282.270	-73.62	30.70	-42.92	-25.00	-17.92	Horizontal
2	838.887	-79.38	43.96	-35.42	-25.00	-10.42	Horizontal
3	912.695	-79.55	45.32	-34.23	-25.00	-9.23	Horizontal
4	5186.000	-61.87	11.67	-50.20	-25.00	-25.20	Horizontal
5	7779.000	-61.53	14.12	-47.41	-25.00	-22.41	Horizontal
6	15558.000	-63.86	20.37	-43.49	-25.00	-18.49	Horizontal
7	35.511	-68.91	31.41	-37.50	-25.00	-12.50	Vertical
8	44.154	-66.88	25.99	-40.89	-25.00	-15.89	Vertical
9	284.261	-73.59	30.82	-42.77	-25.00	-17.77	Vertical
10	5186.000	-62.87	11.67	-51.20	-25.00	-26.20	Vertical
11	7779.000	-61.25	14.12	-47.13	-25.00	-22.13	Vertical
12	15558.000	-64.69	20.37	-44.32	-25.00	-19.32	Vertical
Highest Channel							
1	284.261	-74.80	30.82	-43.98	-25.00	-18.98	Horizontal
2	554.171	-79.68	39.56	-40.12	-25.00	-15.12	Horizontal
3	899.958	-79.90	45.27	-34.63	-25.00	-9.63	Horizontal
4	5360.000	-62.18	11.97	-50.21	-25.00	-25.21	Horizontal
5	8040.000	-61.86	14.04	-47.82	-25.00	-22.82	Horizontal
6	16080.000	-64.47	19.50	-44.97	-25.00	-19.97	Horizontal
7	284.261	-74.06	30.82	-43.24	-25.00	-18.24	Vertical
8	554.171	-78.26	39.56	-38.70	-25.00	-13.70	Vertical
9	906.304	-80.24	45.37	-34.87	-25.00	-9.87	Vertical
10	5360.000	-63.39	11.97	-51.42	-25.00	-26.42	Vertical
11	8040.000	-62.52	14.04	-48.48	-25.00	-23.48	Vertical
12	16080.000	-64.00	19.50	-44.50	-25.00	-19.50	Vertical

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LTE CA_41C_Antenna 0_20+20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	491.770	-78.62	38.13	-40.49	-25.00	-15.49	Horizontal
2	615.774	-78.46	40.66	-37.80	-25.00	-12.80	Horizontal
3	893.656	-78.70	44.95	-33.75	-25.00	-8.75	Horizontal
4	5012.000	-60.09	11.36	-48.73	-25.00	-23.73	Horizontal
5	7518.000	-60.98	14.22	-46.76	-25.00	-21.76	Horizontal
6	17542.000	-64.74	20.91	-43.83	-25.00	-18.83	Horizontal
7	22554.000	-69.56	1.66	-67.90	-25.00	-42.90	Horizontal
8	25060.000	-68.53	0.82	-67.71	-25.00	-42.71	Horizontal
9	286.265	-73.31	30.97	-42.34	-25.00	-17.34	Vertical
10	787.475	-78.96	43.08	-35.88	-25.00	-10.88	Vertical
11	899.958	-80.35	45.27	-35.08	-25.00	-10.08	Vertical
12	5012.000	-59.92	11.36	-48.56	-25.00	-23.56	Vertical
13	7518.000	-60.07	14.22	-45.85	-25.00	-20.85	Vertical
14	17542.000	-64.10	20.91	-43.19	-25.00	-18.19	Vertical
15	22554.000	-69.24	1.64	-67.60	-25.00	-42.60	Vertical
16	25060.000	-68.71	0.65	-68.06	-25.00	-43.06	Vertical
Middle Channel							
1	615.774	-79.21	40.66	-38.55	-25.00	-13.55	Horizontal
2	821.387	-78.99	43.99	-35.00	-25.00	-10.00	Horizontal
3	986.044	-78.96	45.67	-33.29	-25.00	-8.29	Horizontal
4	5166.200	-62.29	11.63	-50.66	-25.00	-25.66	Horizontal
5	7749.300	-60.81	14.14	-46.67	-25.00	-21.67	Horizontal
6	15498.600	-64.51	20.48	-44.03	-25.00	-19.03	Horizontal
7	23247.900	-69.71	1.93	-67.78	-25.00	-42.78	Horizontal
8	25831.000	-68.50	-0.14	-68.64	-25.00	-43.64	Horizontal
9	284.261	-73.71	30.82	-42.89	-25.00	-17.89	Vertical
10	744.427	-79.05	42.29	-36.76	-25.00	-11.76	Vertical
11	899.958	-79.95	45.27	-34.68	-25.00	-9.68	Vertical
12	5166.200	-61.17	11.63	-49.54	-25.00	-24.54	Vertical
13	7749.300	-60.48	14.14	-46.34	-25.00	-21.34	Vertical
14	15498.600	-64.68	20.48	-44.20	-25.00	-19.20	Vertical
15	23247.900	-69.42	1.83	-67.59	-25.00	-42.59	Vertical
16	25831.000	-68.23	-0.34	-68.57	-25.00	-43.57	Vertical
Highest Channel							
1	424.300	-76.66	35.36	-41.30	-25.00	-16.30	Horizontal
2	607.181	-78.45	40.34	-38.11	-25.00	-13.11	Horizontal
3	906.304	-79.90	45.37	-34.53	-25.00	-9.53	Horizontal
4	5320.400	-64.71	11.90	-52.81	-25.00	-27.81	Horizontal
5	7980.600	-61.24	14.05	-47.19	-25.00	-22.19	Horizontal
6	15961.200	-63.55	19.55	-44.00	-25.00	-19.00	Horizontal
7	21281.600	-66.75	0.50	-66.25	-25.00	-41.25	Horizontal
8	23941.800	-67.57	1.93	-65.64	-25.00	-40.64	Horizontal
9	582.112	-79.10	39.95	-39.15	-25.00	-14.15	Vertical
10	698.804	-78.64	41.72	-36.92	-25.00	-11.92	Vertical
11	856.760	-78.95	44.15	-34.80	-25.00	-9.80	Vertical
12	5320.400	-64.10	11.90	-52.20	-25.00	-27.20	Vertical
13	7980.600	-60.95	14.05	-46.90	-25.00	-21.90	Vertical
14	15961.200	-63.09	19.55	-43.54	-25.00	-18.54	Vertical
15	21281.600	-67.39	0.51	-66.88	-25.00	-41.88	Vertical
16	23941.800	-67.20	1.91	-65.29	-25.00	-40.29	Vertical

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UTTR-RF-FCC4G-V1.1

LTE CA_41C_Antenna 4_20+20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	442.572	-77.74	36.33	-41.41	-25.00	-16.41	Horizontal
2	651.383	-79.36	40.91	-38.45	-25.00	-13.45	Horizontal
3	912.695	-79.01	45.32	-33.69	-25.00	-8.69	Horizontal
4	5012.000	-59.65	11.36	-48.29	-25.00	-23.29	Horizontal
5	7518.000	-60.50	14.22	-46.28	-25.00	-21.28	Horizontal
6	17542.000	-64.96	20.91	-44.05	-25.00	-19.05	Horizontal
7	22554.000	-69.80	1.66	-68.14	-25.00	-43.14	Horizontal
8	25060.000	-67.77	0.82	-66.95	-25.00	-41.95	Horizontal
9	38.096	-69.64	30.79	-38.85	-25.00	-13.85	Vertical
10	637.795	-79.07	40.67	-38.40	-25.00	-13.40	Vertical
11	906.304	-79.20	45.37	-33.83	-25.00	-8.83	Vertical
12	5012.000	-59.50	11.36	-48.14	-25.00	-23.14	Vertical
13	7518.000	-60.62	14.22	-46.40	-25.00	-21.40	Vertical
14	17542.000	-64.88	20.91	-43.97	-25.00	-18.97	Vertical
15	22554.000	-69.64	1.64	-68.00	-25.00	-43.00	Vertical
16	25060.000	-68.66	0.65	-68.01	-25.00	-43.01	Vertical
Middle Channel							
1	637.795	-78.82	40.67	-38.15	-25.00	-13.15	Horizontal
2	856.760	-79.58	44.15	-35.43	-25.00	-10.43	Horizontal
3	1000.000	-80.01	45.97	-34.04	-25.00	-9.04	Horizontal
4	5166.200	-61.18	11.63	-49.55	-25.00	-24.55	Horizontal
5	7749.300	-60.58	14.14	-46.44	-25.00	-21.44	Horizontal
6	15498.600	-63.99	20.48	-43.51	-25.00	-18.51	Horizontal
7	23247.900	-69.16	1.93	-67.23	-25.00	-42.23	Horizontal
8	25831.000	-67.92	-0.14	-68.06	-25.00	-43.06	Horizontal
9	615.774	-79.70	40.66	-39.04	-25.00	-14.04	Vertical
10	844.803	-79.32	44.32	-35.00	-25.00	-10.00	Vertical
11	906.304	-79.35	45.37	-33.98	-25.00	-8.98	Vertical
12	5166.200	-61.68	11.63	-50.05	-25.00	-25.05	Vertical
13	7749.300	-61.11	14.14	-46.97	-25.00	-21.97	Vertical
14	15498.600	-64.95	20.48	-44.47	-25.00	-19.47	Vertical
15	23247.900	-70.11	1.83	-68.28	-25.00	-43.28	Vertical
16	25831.000	-68.15	-0.34	-68.49	-25.00	-43.49	Vertical
Highest Channel							
1	590.351	-79.38	40.05	-39.33	-25.00	-14.33	Horizontal
2	703.731	-79.36	41.82	-37.54	-25.00	-12.54	Horizontal
3	932.141	-79.36	44.98	-34.38	-25.00	-9.38	Horizontal
4	5320.400	-64.00	11.90	-52.10	-25.00	-27.10	Horizontal
5	7980.600	-61.89	14.05	-47.84	-25.00	-22.84	Horizontal
6	15961.200	-63.62	19.55	-44.07	-25.00	-19.07	Horizontal
7	21281.600	-66.82	0.50	-66.32	-25.00	-41.32	Horizontal
8	23941.800	-67.06	1.93	-65.13	-25.00	-40.13	Horizontal
9	535.038	-78.33	39.42	-38.91	-25.00	-13.91	Vertical
10	815.635	-78.79	43.58	-35.21	-25.00	-10.21	Vertical
11	906.304	-79.28	45.37	-33.91	-25.00	-8.91	Vertical
12	5320.400	-64.88	11.90	-52.98	-25.00	-27.98	Vertical
13	7980.600	-61.70	14.05	-47.65	-25.00	-22.65	Vertical
14	15961.200	-63.11	19.55	-43.56	-25.00	-18.56	Vertical
15	21281.600	-68.20	0.51	-67.69	-25.00	-42.69	Vertical
16	23941.800	-68.50	1.91	-66.59	-25.00	-41.59	Vertical

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UTTR-RF-FCC4G-V1.1

5G NR n41_Antenna 0_100 MHz_QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	42.931	-70.24	27.84	-42.40	-25.00	-17.40	Horizontal
2	288.284	-76.25	31.13	-45.12	-25.00	-20.12	Horizontal
3	899.958	-79.64	45.27	-34.37	-25.00	-9.37	Horizontal
4	5092.020	-47.61	12.99	-34.62	-25.00	-9.62	Horizontal
5	7638.030	-53.32	14.86	-38.46	-25.00	-13.46	Horizontal
6	17822.070	-65.45	22.48	-42.97	-25.00	-17.97	Horizontal
7	37.830	-73.10	30.96	-42.14	-25.00	-17.14	Vertical
8	56.864	-66.16	21.31	-44.85	-25.00	-19.85	Vertical
9	893.656	-79.26	44.95	-34.31	-25.00	-9.31	Vertical
10	5092.020	-47.06	12.99	-34.07	-25.00	-9.07	Vertical
11	7638.030	-54.38	14.86	-39.52	-25.00	-14.52	Vertical
12	17822.070	-65.63	22.48	-43.15	-25.00	-18.15	Vertical
Middle Channel							
1	47.703	-69.31	25.15	-44.16	-25.00	-19.16	Horizontal
2	290.317	-75.81	31.28	-44.53	-25.00	-19.53	Horizontal
3	899.958	-79.28	45.27	-34.01	-25.00	-9.01	Horizontal
4	5185.980	-48.40	13.13	-35.27	-25.00	-10.27	Horizontal
5	7778.970	-51.09	14.76	-36.33	-25.00	-11.33	Horizontal
6	15557.940	-64.12	19.64	-44.48	-25.00	-19.48	Horizontal
7	44.154	-65.20	25.99	-39.21	-25.00	-14.21	Vertical
8	50.461	-68.13	24.46	-43.67	-25.00	-18.67	Vertical
9	809.924	-79.54	43.70	-35.84	-25.00	-10.84	Vertical
10	5185.980	-46.43	13.13	-33.30	-25.00	-8.30	Vertical
11	7778.970	-52.17	14.76	-37.41	-25.00	-12.41	Vertical
12	15557.940	-64.70	19.64	-45.06	-25.00	-20.06	Vertical
Highest Channel							
1	51.176	-68.37	24.30	-44.07	-25.00	-19.07	Horizontal
2	286.265	-74.71	30.97	-43.74	-25.00	-18.74	Horizontal
3	844.803	-79.91	44.32	-35.59	-25.00	-10.59	Horizontal
4	5280.000	-52.98	13.28	-39.70	-25.00	-14.70	Horizontal
5	7920.000	-55.88	14.69	-41.19	-25.00	-16.19	Horizontal
6	15840.000	-61.34	19.40	-41.94	-25.00	-16.94	Horizontal
7	38.365	-71.32	30.58	-40.74	-25.00	-15.74	Vertical
8	44.154	-65.55	25.99	-39.56	-25.00	-14.56	Vertical
9	56.864	-65.93	21.31	-44.62	-25.00	-19.62	Vertical
10	5280.000	-55.57	13.28	-42.29	-25.00	-17.29	Vertical
11	7920.000	-57.33	14.69	-42.64	-25.00	-17.64	Vertical
12	15840.000	-61.78	19.40	-42.38	-25.00	-17.38	Vertical

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UTTR-RF-FCC4G-V1.1

5G NR n41_Antenna 2_100 MHz_QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	42.931	-71.47	27.84	-43.63	-25.00	-18.63	Horizontal
2	294.426	-75.59	31.44	-44.15	-25.00	-19.15	Horizontal
3	844.803	-78.72	44.32	-34.40	-25.00	-9.40	Horizontal
4	5092.020	-48.59	12.99	-35.60	-25.00	-10.60	Horizontal
5	7638.030	-55.33	14.86	-40.47	-25.00	-15.47	Horizontal
6	17822.070	-65.86	22.48	-43.38	-25.00	-18.38	Horizontal
7	44.154	-64.62	25.99	-38.63	-25.00	-13.63	Vertical
8	56.466	-66.19	21.43	-44.76	-25.00	-19.76	Vertical
9	844.803	-79.10	44.32	-34.78	-25.00	-9.78	Vertical
10	5092.020	-46.00	12.99	-33.01	-25.00	-8.01	Vertical
11	7638.030	-54.27	14.86	-39.41	-25.00	-14.41	Vertical
12	17822.070	-65.30	22.48	-42.82	-25.00	-17.82	Vertical
Middle Channel							
1	44.154	-69.88	25.99	-43.89	-25.00	-18.89	Horizontal
2	198.642	-74.11	27.71	-46.40	-25.00	-21.40	Horizontal
3	798.620	-78.42	43.25	-35.17	-25.00	-10.17	Horizontal
4	5185.980	-52.32	13.13	-39.19	-25.00	-14.19	Horizontal
5	7778.970	-53.64	14.76	-38.88	-25.00	-13.88	Horizontal
6	15557.940	-64.49	19.64	-44.85	-25.00	-19.85	Horizontal
7	44.154	-64.63	25.99	-38.64	-25.00	-13.64	Vertical
8	56.864	-66.24	21.31	-44.93	-25.00	-19.93	Vertical
9	804.252	-78.38	43.45	-34.93	-25.00	-9.93	Vertical
10	5185.980	-49.91	13.13	-36.78	-25.00	-11.78	Vertical
11	7778.970	-54.73	14.76	-39.97	-25.00	-14.97	Vertical
12	15557.940	-64.55	19.64	-44.91	-25.00	-19.91	Vertical
Highest Channel							
1	50.461	-68.23	24.46	-43.77	-25.00	-18.77	Horizontal
2	288.284	-75.20	31.13	-44.07	-25.00	-19.07	Horizontal
3	708.694	-77.73	41.95	-35.78	-25.00	-10.78	Horizontal
4	5280.000	-53.68	13.28	-40.40	-25.00	-15.40	Horizontal
5	7920.000	-56.63	14.69	-41.94	-25.00	-16.94	Horizontal
6	15840.000	-61.97	19.40	-42.57	-25.00	-17.57	Horizontal
7	44.154	-65.15	25.99	-39.16	-25.00	-14.16	Vertical
8	57.265	-67.32	21.12	-46.20	-25.00	-21.20	Vertical
9	833.013	-80.24	44.06	-36.18	-25.00	-11.18	Vertical
10	5280.000	-49.00	13.28	-35.72	-25.00	-10.72	Vertical
11	7920.000	-55.59	14.69	-40.90	-25.00	-15.90	Vertical
12	15840.000	-61.59	19.40	-42.19	-25.00	-17.19	Vertical

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5G NR n41_Antenna 4_100 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	44.154	-69.14	25.99	-43.15	-25.00	-18.15	Horizontal
2	201.454	-74.86	27.73	-47.13	-25.00	-22.13	Horizontal
3	282.270	-75.02	30.70	-44.32	-25.00	-19.32	Horizontal
4	5092.020	-50.16	12.99	-37.17	-25.00	-12.17	Horizontal
5	7638.030	-54.56	14.86	-39.70	-25.00	-14.70	Horizontal
6	17822.070	-64.91	22.48	-42.43	-25.00	-17.43	Horizontal
7	39.182	-69.41	29.87	-39.54	-25.00	-14.54	Vertical
8	628.894	-77.67	40.60	-37.07	-25.00	-12.07	Vertical
9	919.132	-79.46	45.27	-34.19	-25.00	-9.19	Vertical
10	5092.020	-51.02	12.99	-38.03	-25.00	-13.03	Vertical
11	7638.030	-52.45	14.86	-37.59	-25.00	-12.59	Vertical
12	17822.070	-65.77	22.48	-43.29	-25.00	-18.29	Vertical
Middle Channel							
1	50.461	-68.50	24.46	-44.04	-25.00	-19.04	Horizontal
2	282.270	-74.73	30.70	-44.03	-25.00	-19.03	Horizontal
3	809.924	-79.25	43.70	-35.55	-25.00	-10.55	Horizontal
4	5185.980	-49.10	13.13	-35.97	-25.00	-10.97	Horizontal
5	7778.970	-54.13	14.76	-39.37	-25.00	-14.37	Horizontal
6	15557.940	-64.56	19.64	-44.92	-25.00	-19.92	Horizontal
7	44.466	-65.84	25.99	-39.85	-25.00	-14.85	Vertical
8	57.265	-66.44	21.12	-45.32	-25.00	-20.32	Vertical
9	787.475	-79.08	43.08	-36.00	-25.00	-11.00	Vertical
10	5185.980	-50.51	13.13	-37.38	-25.00	-12.38	Vertical
11	7778.970	-54.23	14.76	-39.47	-25.00	-14.47	Vertical
12	15557.940	-64.43	19.64	-44.79	-25.00	-19.79	Vertical
Highest Channel							
1	44.154	-68.91	25.99	-42.92	-25.00	-17.92	Horizontal
2	442.572	-77.41	36.33	-41.08	-25.00	-16.08	Horizontal
3	809.924	-79.01	43.70	-35.31	-25.00	-10.31	Horizontal
4	5280.000	-50.65	13.28	-37.37	-25.00	-12.37	Horizontal
5	7920.000	-56.58	14.69	-41.89	-25.00	-16.89	Horizontal
6	15840.000	-62.20	19.40	-42.80	-25.00	-17.80	Horizontal
7	38.365	-71.43	30.58	-40.85	-25.00	-15.85	Vertical
8	44.154	-66.34	25.99	-40.35	-25.00	-15.35	Vertical
9	57.265	-65.42	21.12	-44.30	-25.00	-19.30	Vertical
10	5280.000	-52.79	13.28	-39.51	-25.00	-14.51	Vertical
11	7920.000	-55.80	14.69	-41.11	-25.00	-16.11	Vertical
12	15840.000	-62.27	19.40	-42.87	-25.00	-17.87	Vertical

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5G NR n41_Antenna 6_100 MHz_QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	47.703	-69.02	25.15	-43.87	-25.00	-18.87	Horizontal
2	290.317	-74.75	31.28	-43.47	-25.00	-18.47	Horizontal
3	932.141	-79.02	44.98	-34.04	-25.00	-9.04	Horizontal
4	5092.020	-45.61	12.99	-32.62	-25.00	-7.62	Horizontal
5	7638.030	-51.51	14.86	-36.65	-25.00	-11.65	Horizontal
6	17822.070	-65.70	22.48	-43.22	-25.00	-18.22	Horizontal
7	38.096	-70.53	30.79	-39.74	-25.00	-14.74	Vertical
8	44.466	-65.10	25.99	-39.11	-25.00	-14.11	Vertical
9	798.620	-79.06	43.25	-35.81	-25.00	-10.81	Vertical
10	5092.020	-47.93	12.99	-34.94	-25.00	-9.94	Vertical
11	7638.030	-53.23	14.86	-38.37	-25.00	-13.37	Vertical
12	17822.070	-65.50	22.48	-43.02	-25.00	-18.02	Vertical
Middle Channel							
1	44.154	-66.66	25.99	-40.67	-25.00	-15.67	Horizontal
2	50.461	-68.36	24.46	-43.90	-25.00	-18.90	Horizontal
3	906.304	-79.59	45.37	-34.22	-25.00	-9.22	Horizontal
4	5185.980	-48.40	13.13	-35.27	-25.00	-10.27	Horizontal
5	7778.970	-53.00	14.76	-38.24	-25.00	-13.24	Horizontal
6	15557.940	-64.81	19.64	-45.17	-25.00	-20.17	Horizontal
7	44.154	-65.59	25.99	-39.60	-25.00	-14.60	Vertical
8	57.265	-66.28	21.12	-45.16	-25.00	-20.16	Vertical
9	815.635	-78.74	43.58	-35.16	-25.00	-10.16	Vertical
10	5185.980	-48.85	13.13	-35.72	-25.00	-10.72	Vertical
11	7778.970	-53.63	14.76	-38.87	-25.00	-13.87	Vertical
12	15557.940	-64.81	19.64	-45.17	-25.00	-20.17	Vertical
Highest Channel							
1	47.703	-68.77	25.15	-43.62	-25.00	-18.62	Horizontal
2	282.270	-75.53	30.70	-44.83	-25.00	-19.83	Horizontal
3	833.013	-79.67	44.06	-35.61	-25.00	-10.61	Horizontal
4	5280.000	-52.91	13.28	-39.63	-25.00	-14.63	Horizontal
5	7920.000	-55.78	14.69	-41.09	-25.00	-16.09	Horizontal
6	15840.000	-61.40	19.40	-42.00	-25.00	-17.00	Horizontal
7	38.096	-71.50	30.79	-40.71	-25.00	-15.71	Vertical
8	44.466	-64.58	25.99	-38.59	-25.00	-13.59	Vertical
9	838.887	-79.02	43.96	-35.06	-25.00	-10.06	Vertical
10	5280.000	-53.69	13.28	-40.41	-25.00	-15.41	Vertical
11	7920.000	-55.85	14.69	-41.16	-25.00	-16.16	Vertical
12	15840.000	-61.75	19.40	-42.35	-25.00	-17.35	Vertical

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UTTR-RF-FCC4G-V1.1

5.8.9 LTE Band 66(4), 66C and 5G NR n66

LTE Band 66_Antenna 1_20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	219.179	-70.76	28.31	-42.45	-13.00	-29.45	Horizontal
2	282.270	-69.39	30.70	-38.69	-13.00	-25.69	Horizontal
3	906.304	-80.12	45.37	-34.75	-13.00	-21.75	Horizontal
4	3440.000	-60.38	9.61	-50.77	-13.00	-37.77	Horizontal
5	5160.000	-61.75	11.62	-50.13	-13.00	-37.13	Horizontal
6	17200.000	-63.24	20.19	-43.05	-13.00	-30.05	Horizontal
7	42.931	-66.92	27.84	-39.08	-13.00	-26.08	Vertical
8	124.050	-62.73	23.11	-39.62	-13.00	-26.62	Vertical
9	919.132	-79.50	45.27	-34.23	-13.00	-21.23	Vertical
10	3440.000	-60.47	9.61	-50.86	-13.00	-37.86	Vertical
11	5160.000	-61.86	11.62	-50.24	-13.00	-37.24	Vertical
12	17200.000	-61.68	20.19	-41.49	-13.00	-28.49	Vertical
Middle Channel							
1	42.931	-71.72	27.84	-43.88	-13.00	-30.88	Horizontal
2	280.294	-68.31	30.58	-37.73	-13.00	-24.73	Horizontal
3	875.013	-79.43	44.37	-35.06	-13.00	-22.06	Horizontal
4	3490.000	-61.82	9.74	-52.08	-13.00	-39.08	Horizontal
5	5235.000	-61.18	11.76	-49.42	-13.00	-36.42	Horizontal
6	17450.000	-63.94	20.68	-43.26	-13.00	-30.26	Horizontal
7	42.931	-64.10	27.84	-36.26	-13.00	-23.26	Vertical
8	280.294	-73.51	30.58	-42.93	-13.00	-29.93	Vertical
9	906.304	-79.90	45.37	-34.53	-13.00	-21.53	Vertical
10	3490.000	-61.93	9.74	-52.19	-13.00	-39.19	Vertical
11	5235.000	-61.43	11.76	-49.67	-13.00	-36.67	Vertical
12	17450.000	-64.06	20.68	-43.38	-13.00	-30.38	Vertical
Highest Channel							
1	220.724	-71.61	28.34	-43.27	-13.00	-30.27	Horizontal
2	280.294	-69.39	30.58	-38.81	-13.00	-25.81	Horizontal
3	844.803	-78.81	44.32	-34.49	-13.00	-21.49	Horizontal
4	3540.000	-59.98	10.01	-49.97	-13.00	-36.97	Horizontal
5	5310.000	-62.36	11.88	-50.48	-13.00	-37.48	Horizontal
6	17700.000	-65.77	21.42	-44.35	-13.00	-31.35	Horizontal
7	42.931	-66.66	27.84	-38.82	-13.00	-25.82	Vertical
8	124.050	-62.23	23.11	-39.12	-13.00	-26.12	Vertical
9	286.265	-73.45	30.97	-42.48	-13.00	-29.48	Vertical
10	3540.000	-62.41	10.01	-52.40	-13.00	-39.40	Vertical
11	5310.000	-63.18	11.88	-51.30	-13.00	-38.30	Vertical
12	17700.000	-65.64	21.42	-44.22	-13.00	-31.22	Vertical

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UTTR-RF-FCC4G-V1.1

LTE Band 66_Antenna 4_ 20 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	220.724	-70.81	28.34	-42.47	-13.00	-29.47	Horizontal
2	276.382	-69.35	30.13	-39.22	-13.00	-26.22	Horizontal
3	919.132	-79.59	45.27	-34.32	-13.00	-21.32	Horizontal
4	3490.000	-62.17	9.74	-52.43	-13.00	-39.43	Horizontal
5	5235.000	-61.93	11.76	-50.17	-13.00	-37.17	Horizontal
6	17200.000	-63.42	20.19	-43.23	-13.00	-30.23	Horizontal
7	37.830	-71.45	30.96	-40.49	-13.00	-27.49	Vertical
8	123.181	-61.81	22.86	-38.95	-13.00	-25.95	Vertical
9	787.475	-79.45	43.08	-36.37	-13.00	-23.37	Vertical
10	3490.000	-62.16	9.74	-52.42	-13.00	-39.42	Vertical
11	5235.000	-60.71	11.76	-48.95	-13.00	-35.95	Vertical
12	17200.000	-63.49	20.19	-43.30	-13.00	-30.30	Vertical
Middle Channel							
1	50.461	-69.31	24.46	-44.85	-13.00	-31.85	Horizontal
2	284.261	-68.91	30.82	-38.09	-13.00	-25.09	Horizontal
3	527.571	-78.20	39.16	-39.04	-13.00	-26.04	Horizontal
4	3540.000	-62.24	10.01	-52.23	-13.00	-39.23	Horizontal
5	5310.000	-63.43	11.88	-51.55	-13.00	-38.55	Horizontal
6	17450.000	-64.97	20.68	-44.29	-13.00	-31.29	Horizontal
7	42.931	-67.59	27.84	-39.75	-13.00	-26.75	Vertical
8	123.181	-62.48	22.86	-39.62	-13.00	-26.62	Vertical
9	280.294	-74.42	30.58	-43.84	-13.00	-30.84	Vertical
10	3540.000	-61.73	10.01	-51.72	-13.00	-38.72	Vertical
11	5310.000	-63.42	11.88	-51.54	-13.00	-38.54	Vertical
12	17450.000	-63.75	20.68	-43.07	-13.00	-30.07	Vertical
Highest Channel							
1	42.931	-72.24	27.84	-44.40	-13.00	-31.40	Horizontal
2	284.261	-68.84	30.82	-38.02	-13.00	-25.02	Horizontal
3	906.304	-79.29	45.37	-33.92	-13.00	-20.92	Horizontal
4	3540.000	-58.62	10.01	-48.61	-13.00	-35.61	Horizontal
5	5310.000	-61.02	11.88	-49.14	-13.00	-36.14	Horizontal
6	17700.000	-64.32	21.42	-42.90	-13.00	-29.90	Horizontal
7	36.524	-70.82	31.36	-39.46	-13.00	-26.46	Vertical
8	276.382	-73.57	30.13	-43.44	-13.00	-30.44	Vertical
9	850.760	-78.77	44.25	-34.52	-13.00	-21.52	Vertical
10	3540.000	-61.19	10.01	-51.18	-13.00	-38.18	Vertical
11	5310.000	-61.99	11.88	-50.11	-13.00	-37.11	Vertical
12	17700.000	-64.39	21.42	-42.97	-13.00	-29.97	Vertical

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UTTR-RF-FCC4G-V1.1

LTE CA_66C_Antenna 1_20+20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	43.845	-70.31	26.27	-44.04	-13.00	-31.04	Horizontal
2	298.593	-75.94	31.67	-44.27	-13.00	-31.27	Horizontal
3	912.695	-79.84	45.32	-34.52	-13.00	-21.52	Horizontal
4	3440.000	-60.54	9.61	-50.93	-13.00	-37.93	Horizontal
5	5160.000	-60.69	11.62	-49.07	-13.00	-36.07	Horizontal
6	17200.000	-63.32	20.19	-43.13	-13.00	-30.13	Horizontal
7	37.830	-67.07	30.96	-36.11	-13.00	-23.11	Vertical
8	282.270	-74.42	30.70	-43.72	-13.00	-30.72	Vertical
9	868.886	-79.05	44.75	-34.30	-13.00	-21.30	Vertical
10	3440.000	-60.89	9.61	-51.28	-13.00	-38.28	Vertical
11	5160.000	-60.42	11.62	-48.80	-13.00	-35.80	Vertical
12	17200.000	-62.98	20.19	-42.79	-13.00	-29.79	Vertical
Middle Channel							
1	44.154	-69.22	25.99	-43.23	-13.00	-30.23	Horizontal
2	58.076	-63.72	20.74	-42.98	-13.00	-29.98	Horizontal
3	906.304	-80.15	45.37	-34.78	-13.00	-21.78	Horizontal
4	3490.200	-62.20	9.74	-52.46	-13.00	-39.46	Horizontal
5	5235.300	-60.39	11.76	-48.63	-13.00	-35.63	Horizontal
6	17451.000	-63.39	20.68	-42.71	-13.00	-29.71	Horizontal
7	37.302	-71.43	31.21	-40.22	-13.00	-27.22	Vertical
8	56.864	-63.80	21.31	-42.49	-13.00	-29.49	Vertical
9	893.656	-79.75	44.95	-34.80	-13.00	-21.80	Vertical
10	3490.200	-61.93	9.74	-52.19	-13.00	-39.19	Vertical
11	5235.300	-61.74	11.76	-49.98	-13.00	-36.98	Vertical
12	17451.000	-63.49	20.68	-42.81	-13.00	-29.81	Vertical
Highest Channel							
1	56.466	-65.09	21.43	-43.66	-13.00	-30.66	Horizontal
2	542.610	-79.10	39.34	-39.76	-13.00	-26.76	Horizontal
3	906.304	-79.08	45.37	-33.71	-13.00	-20.71	Horizontal
4	3500.400	-62.85	9.77	-53.08	-13.00	-40.08	Horizontal
5	5250.600	-60.81	11.78	-49.03	-13.00	-36.03	Horizontal
6	17502.000	-63.41	20.78	-42.63	-13.00	-29.63	Horizontal
7	38.365	-69.94	30.58	-39.36	-13.00	-26.36	Vertical
8	430.305	-77.76	36.23	-41.53	-13.00	-28.53	Vertical
9	887.398	-79.40	44.96	-34.44	-13.00	-21.44	Vertical
10	3500.400	-61.25	9.77	-51.48	-13.00	-38.48	Vertical
11	5250.600	-60.71	11.78	-48.93	-13.00	-35.93	Vertical
12	17502.000	-63.29	20.78	-42.51	-13.00	-29.51	Vertical

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LTE CA_66C_Antenna 4_20+20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	57.265	-63.56	21.12	-42.44	-13.00	-29.44	Horizontal
2	838.887	-78.64	43.96	-34.68	-13.00	-21.68	Horizontal
3	906.304	-79.06	45.37	-33.69	-13.00	-20.69	Horizontal
4	3440.000	-61.25	9.61	-51.64	-13.00	-38.64	Horizontal
5	5160.000	-61.33	11.62	-49.71	-13.00	-36.71	Horizontal
6	17200.000	-61.80	20.19	-41.61	-13.00	-28.61	Horizontal
7	44.154	-64.57	25.99	-38.58	-13.00	-25.58	Vertical
8	708.694	-79.33	41.95	-37.38	-13.00	-24.38	Vertical
9	919.132	-79.17	45.27	-33.90	-13.00	-20.90	Vertical
10	3440.000	-61.37	9.61	-51.76	-13.00	-38.76	Vertical
11	5160.000	-60.18	11.62	-48.56	-13.00	-35.56	Vertical
12	17200.000	-62.66	20.19	-42.47	-13.00	-29.47	Vertical
Middle Channel							
1	57.265	-63.84	21.12	-42.72	-13.00	-29.72	Horizontal
2	498.730	-78.68	38.45	-40.23	-13.00	-27.23	Horizontal
3	804.252	-78.56	43.45	-35.11	-13.00	-22.11	Horizontal
4	3490.200	-61.94	9.74	-52.20	-13.00	-39.20	Horizontal
5	5235.300	-61.43	11.76	-49.67	-13.00	-36.67	Horizontal
6	17451.000	-62.64	20.68	-41.96	-13.00	-28.96	Horizontal
7	37.830	-70.28	30.96	-39.32	-13.00	-26.32	Vertical
8	558.079	-78.87	39.67	-39.20	-13.00	-26.20	Vertical
9	868.886	-80.02	44.75	-35.27	-13.00	-22.27	Vertical
10	3490.200	-61.89	9.74	-52.15	-13.00	-39.15	Vertical
11	5235.300	-61.31	11.76	-49.55	-13.00	-36.55	Vertical
12	17451.000	-63.53	20.68	-42.85	-13.00	-29.85	Vertical
Highest Channel							
1	284.261	-74.26	30.82	-43.44	-13.00	-30.44	Horizontal
2	607.181	-78.68	40.34	-38.34	-13.00	-25.34	Horizontal
3	958.714	-78.99	45.27	-33.72	-13.00	-20.72	Horizontal
4	3500.400	-62.50	9.77	-52.73	-13.00	-39.73	Horizontal
5	5250.600	-61.34	11.78	-49.56	-13.00	-36.56	Horizontal
6	17502.000	-63.47	20.78	-42.69	-13.00	-29.69	Horizontal
7	37.830	-70.92	30.96	-39.96	-13.00	-26.96	Vertical
8	56.071	-63.94	21.55	-42.39	-13.00	-29.39	Vertical
9	294.426	-75.27	31.44	-43.83	-13.00	-30.83	Vertical
10	3500.400	-62.12	9.77	-52.35	-13.00	-39.35	Vertical
11	5250.600	-61.30	11.78	-49.52	-13.00	-36.52	Vertical
12	17502.000	-63.36	20.78	-42.58	-13.00	-29.58	Vertical

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5G NR n66_Antenna 1_20 MHz_QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	50.461	-68.58	24.46	-44.12	-13.00	-31.12	Horizontal
2	286.265	-74.44	30.97	-43.47	-13.00	-30.47	Horizontal
3	932.141	-79.27	44.98	-34.29	-13.00	-21.29	Horizontal
4	3440.000	-42.12	9.13	-32.99	-13.00	-19.99	Horizontal
5	5160.000	-50.68	13.09	-37.59	-13.00	-24.59	Horizontal
6	17200.000	-63.73	21.05	-42.68	-13.00	-29.68	Horizontal
7	44.154	-62.04	25.99	-36.05	-13.00	-23.05	Vertical
8	57.265	-66.33	21.12	-45.21	-13.00	-32.21	Vertical
9	594.514	-78.72	40.23	-38.49	-13.00	-25.49	Vertical
10	3440.000	-43.64	9.13	-34.51	-13.00	-21.51	Vertical
11	5160.000	-50.12	13.09	-37.03	-13.00	-24.03	Vertical
12	17200.000	-62.48	21.05	-41.43	-13.00	-28.43	Vertical
Middle Channel							
1	50.461	-67.86	24.46	-43.40	-13.00	-30.40	Horizontal
2	197.251	-74.37	27.49	-46.88	-13.00	-33.88	Horizontal
3	844.803	-79.72	44.32	-35.40	-13.00	-22.40	Horizontal
4	3490.000	-37.53	9.41	-28.12	-13.00	-15.12	Horizontal
5	5235.000	-46.70	13.21	-33.49	-13.00	-20.49	Horizontal
6	17450.000	-62.46	21.49	-40.97	-13.00	-27.97	Horizontal
7	44.154	-63.49	25.99	-37.50	-13.00	-24.50	Vertical
8	57.265	-66.59	21.12	-45.47	-13.00	-32.47	Vertical
9	906.304	-79.80	45.37	-34.43	-13.00	-21.43	Vertical
10	3490.000	-37.70	9.41	-28.29	-13.00	-15.29	Vertical
11	5235.000	-48.33	13.21	-35.12	-13.00	-22.12	Vertical
12	17450.000	-62.60	21.49	-41.11	-13.00	-28.11	Vertical
Highest Channel							
1	51.176	-68.65	24.30	-44.35	-13.00	-31.35	Horizontal
2	464.887	-77.69	37.12	-40.57	-13.00	-27.57	Horizontal
3	887.398	-79.86	44.96	-34.90	-13.00	-21.90	Horizontal
4	3540.000	-41.08	9.72	-31.36	-13.00	-18.36	Horizontal
5	5310.000	-52.07	13.32	-38.75	-13.00	-25.75	Horizontal
6	17700.000	-65.37	22.14	-43.23	-13.00	-30.23	Horizontal
7	44.154	-61.29	25.99	-35.30	-13.00	-22.30	Vertical
8	409.651	-78.10	35.31	-42.79	-13.00	-29.79	Vertical
9	833.013	-79.54	44.06	-35.48	-13.00	-22.48	Vertical
10	3540.000	-48.35	9.72	-38.63	-13.00	-25.63	Vertical
11	5310.000	-50.50	13.32	-37.18	-13.00	-24.18	Vertical
12	17700.000	-64.83	22.14	-42.69	-13.00	-29.69	Vertical

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5G NR n66_Antenna 4_20 MHz_QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	50.461	-68.52	24.46	-44.06	-13.00	-31.06	Horizontal
2	282.270	-76.03	30.70	-45.33	-13.00	-32.33	Horizontal
3	919.132	-79.23	45.27	-33.96	-13.00	-20.96	Horizontal
4	3440.000	-38.89	9.13	-29.76	-13.00	-16.76	Horizontal
5	5160.000	-47.93	13.09	-34.84	-13.00	-21.84	Horizontal
6	17200.000	-62.73	21.05	-41.68	-13.00	-28.68	Horizontal
7	44.154	-64.12	25.99	-38.13	-13.00	-25.13	Vertical
8	57.265	-66.75	21.12	-45.63	-13.00	-32.63	Vertical
9	893.656	-80.53	44.95	-35.58	-13.00	-22.58	Vertical
10	3440.000	-35.20	9.13	-26.07	-13.00	-13.07	Vertical
11	5160.000	-48.24	13.09	-35.15	-13.00	-22.15	Vertical
12	17200.000	-62.95	21.05	-41.90	-13.00	-28.90	Vertical
Middle Channel							
1	47.703	-69.44	25.15	-44.29	-13.00	-31.29	Horizontal
2	290.317	-75.83	31.28	-44.55	-13.00	-31.55	Horizontal
3	850.760	-78.81	44.25	-34.56	-13.00	-21.56	Horizontal
4	3490.000	-39.32	9.41	-29.91	-13.00	-16.91	Horizontal
5	5235.000	-43.87	13.21	-30.66	-13.00	-17.66	Horizontal
6	17450.000	-62.05	21.49	-40.56	-13.00	-27.56	Horizontal
7	38.908	-71.63	30.14	-41.49	-13.00	-28.49	Vertical
8	44.154	-66.96	25.99	-40.97	-13.00	-27.97	Vertical
9	57.265	-66.33	21.12	-45.21	-13.00	-32.21	Vertical
10	3490.000	-39.20	9.41	-29.79	-13.00	-16.79	Vertical
11	5235.000	-48.20	13.21	-34.99	-13.00	-21.99	Vertical
12	17450.000	-62.63	21.49	-41.14	-13.00	-28.14	Vertical
Highest Channel							
1	44.154	-68.53	25.99	-42.54	-13.00	-29.54	Horizontal
2	50.461	-68.84	24.46	-44.38	-13.00	-31.38	Horizontal
3	284.261	-75.11	30.82	-44.29	-13.00	-31.29	Horizontal
4	3540.000	-46.79	9.72	-37.07	-13.00	-24.07	Horizontal
5	5310.000	-53.17	13.32	-39.85	-13.00	-26.85	Horizontal
6	17700.000	-65.62	22.14	-43.48	-13.00	-30.48	Horizontal
7	38.365	-71.56	30.58	-40.98	-13.00	-27.98	Vertical
8	44.154	-64.82	25.99	-38.83	-13.00	-25.83	Vertical
9	436.396	-77.28	36.17	-41.11	-13.00	-28.11	Vertical
10	3540.000	-40.71	9.72	-30.99	-13.00	-17.99	Vertical
11	5310.000	-49.35	13.32	-36.03	-13.00	-23.03	Vertical
12	17700.000	-65.67	22.14	-43.53	-13.00	-30.53	Vertical

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5.8.10 LTE Band 71 and 5G NR n71

LTE Band 71_Antenna 0_20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	47.703	-70.05	25.15	-44.90	-13.00	-31.90	Horizontal
2	430.305	-78.24	36.23	-42.01	-13.00	-29.01	Horizontal
3	542.610	-79.14	39.34	-39.80	-13.00	-26.80	Horizontal
4	1346.000	-56.74	0.52	-56.22	-13.00	-43.22	Horizontal
5	2019.000	-60.90	5.09	-55.81	-13.00	-42.81	Horizontal
6	17498.000	-63.67	20.78	-42.89	-13.00	-29.89	Horizontal
7	38.365	-69.27	30.58	-38.69	-13.00	-25.69	Vertical
8	284.261	-74.30	30.82	-43.48	-13.00	-30.48	Vertical
9	512.948	-78.50	38.68	-39.82	-13.00	-26.82	Vertical
10	1346.000	-56.56	0.52	-56.04	-13.00	-43.04	Vertical
11	2019.000	-61.22	5.09	-56.13	-13.00	-43.13	Vertical
12	17498.000	-63.61	20.78	-42.83	-13.00	-29.83	Vertical
Middle Channel							
1	284.261	-73.59	30.82	-42.77	-13.00	-29.77	Horizontal
2	590.351	-78.56	40.05	-38.51	-13.00	-25.51	Horizontal
3	919.132	-80.00	45.27	-34.73	-13.00	-21.73	Horizontal
4	1361.000	-56.87	0.54	-56.33	-13.00	-43.33	Horizontal
5	2041.500	-63.17	5.15	-58.02	-13.00	-45.02	Horizontal
6	17693.000	-65.35	21.38	-43.97	-13.00	-30.97	Horizontal
7	38.365	-69.84	30.58	-39.26	-13.00	-26.26	Vertical
8	284.261	-74.66	30.82	-43.84	-13.00	-30.84	Vertical
9	474.791	-78.33	37.48	-40.85	-13.00	-27.85	Vertical
10	1361.000	-57.33	0.54	-56.79	-13.00	-43.79	Vertical
11	2041.500	-62.98	5.15	-57.83	-13.00	-44.83	Vertical
12	17693.000	-65.65	21.38	-44.27	-13.00	-31.27	Vertical
Highest Channel							
1	278.331	-74.74	30.36	-44.38	-13.00	-31.38	Horizontal
2	445.693	-78.02	36.48	-41.54	-13.00	-28.54	Horizontal
3	633.328	-78.72	40.85	-37.87	-13.00	-24.87	Horizontal
4	1381.000	-57.41	0.56	-56.85	-13.00	-43.85	Horizontal
5	2071.500	-60.00	5.23	-54.77	-13.00	-41.77	Horizontal
6	17953.000	-64.96	22.22	-42.74	-13.00	-29.74	Horizontal
7	36.781	-67.38	31.36	-36.02	-13.00	-23.02	Vertical
8	56.466	-63.94	21.43	-42.51	-13.00	-29.51	Vertical
9	120.612	-65.98	22.95	-43.03	-13.00	-30.03	Vertical
10	1381.000	-57.83	0.56	-57.27	-13.00	-44.27	Vertical
11	2071.500	-60.62	5.23	-55.39	-13.00	-42.39	Vertical
12	17953.000	-64.86	22.22	-42.64	-13.00	-29.64	Vertical

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5G NR n71_Antenna 0_20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	50.461	-69.03	24.46	-44.57	-13.00	-31.57	Horizontal
2	290.317	-75.50	31.28	-44.22	-13.00	-31.22	Horizontal
3	464.887	-79.10	37.12	-41.98	-13.00	-28.98	Horizontal
4	1346.000	-37.40	1.63	-35.77	-13.00	-22.77	Horizontal
5	2019.000	-48.47	3.99	-44.48	-13.00	-31.48	Horizontal
6	17498.000	-62.83	21.58	-41.25	-13.00	-28.25	Vertical
7	38.365	-72.07	30.58	-41.49	-13.00	-28.49	Vertical
8	44.154	-66.46	25.99	-40.47	-13.00	-27.47	Vertical
9	582.112	-79.05	39.95	-39.10	-13.00	-26.10	Vertical
10	1346.000	-37.98	1.63	-36.35	-13.00	-23.35	Vertical
Middle Channel							
1	44.154	-69.03	25.99	-43.04	-13.00	-30.04	Horizontal
2	286.265	-75.38	30.97	-44.41	-13.00	-31.41	Horizontal
3	590.351	-78.82	40.05	-38.77	-13.00	-25.77	Horizontal
4	1361.000	-38.86	1.67	-37.19	-13.00	-24.19	Horizontal
5	2041.500	-46.96	4.06	-42.90	-13.00	-29.90	Horizontal
6	17693.000	-64.81	22.11	-42.70	-13.00	-29.70	Vertical
7	44.154	-61.54	25.99	-35.55	-13.00	-22.55	Vertical
8	124.050	-71.68	23.11	-48.57	-13.00	-35.57	Vertical
9	615.774	-78.97	40.66	-38.31	-13.00	-25.31	Vertical
10	1361.000	-37.00	1.67	-35.33	-13.00	-22.33	Vertical
Highest Channel							
1	50.461	-68.44	24.46	-43.98	-13.00	-30.98	Horizontal
2	282.270	-75.33	30.70	-44.63	-13.00	-31.63	Horizontal
3	611.462	-79.37	40.45	-38.92	-13.00	-25.92	Horizontal
4	1376.000	-38.26	1.71	-36.55	-13.00	-23.55	Horizontal
5	2064.000	-43.24	4.14	-39.10	-13.00	-26.10	Horizontal
6	17888.000	-63.75	22.66	-41.09	-13.00	-28.09	Vertical
7	44.154	-61.73	25.99	-35.74	-13.00	-22.74	Vertical
8	57.265	-66.15	21.12	-45.03	-13.00	-32.03	Vertical
9	550.290	-77.87	39.09	-38.78	-13.00	-25.78	Vertical
10	1376.000	-37.92	1.71	-36.21	-13.00	-23.21	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit

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5.9 FREQUENCY STABILITY

Test Requirement: FCC 47 CFR Part 2.1055 &
FCC 47 CFR Part 22.355 &
FCC 47 CFR Part 24.235 &
FCC 47 CFR Part 27.54

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limits:

FCC 47 CFR Part 22.355, FCC 47 CFR Part 90.213

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC 47 CFR Part 24.235, FCC 47 CFR Part 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

- 1) Use CMW 500 with Frequency Error measurement capability.
 - a) Temp. = -30° to $+50^{\circ}\text{C}$
 - b) Voltage = low voltage, 3.5 Vdc, Normal, 3.87 Vdc and High voltage, 4.45 Vdc.

- 2) Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10°C degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

- 3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

Equipment Used: Refer to section 3 for details.

Test Result: Please refer to Appendix A to T

Note 1: The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
