

FCC TEST REPORT

Product Name: Hybrid Full-Touch Handheld computer

Trade Mark: 

Model No.: X40

Report Number: 26051324500RFM-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: VTVX40

Test Result: PASS

Date of Issue: September 24, 2026

Prepared for:

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UTTR-RF-FCC4G-V1.1

Version

Version No.	Date	Description
V1.0	September 24, 2026	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	TSC Auto ID Technology Co., Ltd.
Address of Applicant:	9F., No. 95, Minquan Rd. Xindian Dist., New Taipei City, Taiwan
Manufacturer:	TSC Auto ID Technology Co., Ltd.
Address of Manufacturer:	9F., No. 95, Minquan Rd. Xindian Dist., New Taipei City, Taiwan

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Hybrid Full-Touch Handheld computer		
Model No.:	X40		
Trade Mark:			
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/ 14/ 17/ 25/ 26/ 66/ 71	
		TDD Band 38/ 41 / 48	
	5G NR Bands:	FDD n2/ 5/ 7/ 12/ 13/ 14/ 25/ 26/ 66/ 71	
		TDD n38/ 41/ 48/ 77/ 78	
	2.4 GHz ISM Band:	IEEE 802.11b/g/n/ax	
		Bluetooth V5.3	
		2 nd BLE	
	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	
	1164 - 1300 MHz	GPS/ Galileo	
RFID:	902 - 928 MHz		
UWB:	6.0-8.5GHz		
NFC:	13.553 MHz to 13.567 MHz		
Software Version:	R2.00 (Provided by the customer)		
Hardware Version:	REV0.3 (Provided by the customer)		
Sample Received Date:	May 13, 2026		
Sample Tested Date:	May 14, 2026 to June 23, 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 26051324500EMC-1 for accessories.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Support Networks:	LTE	FDD Band 2/ 4/ 5/ 7/ 12/ 13/ 14/ 17/ 25/ 26/ 66/ 71
		TDD Band 38/ 41
	5G	FDD n2/ 5/ 7/ 12/ 13/ 14/ 25/ 26/ 66/ 71
	NR	TDD n38/ 41
Type of Modulation:	LTE	QPSK, 16QAM, 64QAM, 256QAM
	5G	DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM;
	NR	CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
5G NR SCS:		TDD (n38/41): 30 kHz FDD (n2/5/7/12/13/14/25/26/66/71): 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
	n13:	5/10 MHz
	n14:	5/10 MHz
	n25:	5/10/15/20 MHz
	n26:	5/10/15/20 MHz
	n66:	5/10/15/20 MHz
	n71:	5/10/15/20 MHz
	n38:	20 MHz
	n41:	20/30/40/50/60/70/80/90/100 MHz
Antenna Type: (Provided by the customer)		LDS Antenna
Antenna Gain (dBi): (Provided by the customer)	LTE Band 2/ 5G NR n2:	1.27
	LTE Band 4:	2.08
	LTE Band 5/ 5G NR n5:	-5.55
	LTE Band 7/ 5G NR n7:	-8.78
	LTE Band 12/ 5G NR n12:	-15.35
	LTE Band 13/ 5G NR n13:	-8.42
	LTE Band 14/ 5G NR n14:	-8.42
	LTE Band 17:	-15.35
	LTE Band 25/ 5G NR n25:	1.27
	LTE Band 26/ 5G NR n26:	-5.55
	LTE Band 66/ 5G NR n66:	2.08
	LTE Band 71/ 5G NR n71:	-19.84
	LTE Band 38/ 5G NR n38:	-2.46
	LTE Band 41/ 5G NR n41:	-2.46
Sample No.:		Radiated: S202605138612-ZJA03/26 Conducted: S202605138612-ZJA20/26, S202605138612-ZJA11/26
Normal Test Voltage:		3.87 Vdc
Extreme Test Voltage:		3.4 Vdc to 4.38 Vdc
Extreme Test Temperature:		-30 °C to +50 °C

Summary of Results:							
Bands	BW	Modulation	Frequency Range	ERP/EIRP		99% BW	Emission Designator
	(MHz)			(dBm)	(W)		
2	1.4	QPSK	1850.7-1909.3	24.27	0.2673	1.093	1M09G7D
		16QAM/64QAM/256QAM		24.27	0.2673	1.094	1M09W7D
	3	QPSK	1851.5-1908.5	24.27	0.2673	2.702	2M70G7D
		16QAM/64QAM/256QAM		24.27	0.2673	2.702	2M70W7D
	5	QPSK	1852.5-1907.5	24.27	0.2673	4.513	4M51G7D
		16QAM/64QAM/256QAM		24.27	0.2673	4.511	4M51W7D
	10	QPSK	1855.0-1905.0	24.27	0.2673	8.997	9M00G7D
		16QAM/64QAM/256QAM		24.27	0.2673	8.990	8M99W7D
	15	QPSK	1857.5-1902.5	24.27	0.2673	13.505	13M5G7D
		16QAM/64QAM/256QAM		24.27	0.2673	13.503	13M5W7D
	20	QPSK	1860.0-1900.0	24.27	0.2673	17.966	18M0G7D
		16QAM/64QAM/256QAM		24.27	0.2673	17.990	18M0W7D
4	1.4	QPSK	1710.7-1754.3	25.58	0.3614	1.093	1M09G7D
		16QAM/64QAM/256QAM		25.58	0.3614	1.094	1M09W7D
	3	QPSK	1711.5-1753.5	25.58	0.3614	2.702	2M70G7D
		16QAM/64QAM/256QAM		25.58	0.3614	2.694	2M69W7D
	5	QPSK	1712.5-1752.5	25.58	0.3614	4.512	4M51G7D
		16QAM/64QAM/256QAM		25.58	0.3614	4.523	4M52W7D
	10	QPSK	1715-1750	25.58	0.3614	8.993	8M99G7D
		16QAM/64QAM/256QAM		25.58	0.3614	8.990	8M99W7D
	15	QPSK	1717.5-1747.5	25.58	0.3614	13.475	13M5G7D
		16QAM/64QAM/256QAM		25.58	0.3614	13.493	13M5W7D
	20	QPSK	1720-1745	25.58	0.3614	17.976	18M0G7D
		16QAM/64QAM/256QAM		25.58	0.3614	17.989	18M0W7D
5	1.4	QPSK	824.7-848.3	15.80	0.0380	1.094	1M09G7D
		16QAM/64QAM/256QAM		15.80	0.0380	1.093	1M09W7D
	3	QPSK	825.5-847.5	15.80	0.0380	2.703	2M70G7D
		16QAM/64QAM/256QAM		15.80	0.0380	2.697	2M70W7D
	5	QPSK	826.5-846.5	15.80	0.0380	4.506	4M51G7D
		16QAM/64QAM/256QAM		15.80	0.0380	4.518	4M52W7D
	10	QPSK	829-844	15.80	0.0380	8.969	8M97G7D
		16QAM/64QAM/256QAM		15.80	0.0380	8.971	8M97W7D
7	5	QPSK	2502.5-2567.5	14.22	0.0264	4.514	4M51G7D
		16QAM/64QAM/256QAM		14.22	0.0264	4.520	4M52W7D
	10	QPSK	2505-2565	14.22	0.0264	8.984	8M98G7D
		16QAM/64QAM/256QAM		14.22	0.0264	8.982	8M98W7D
	15	QPSK	2507.5-2562.5	14.22	0.0264	13.464	13M5G7D
		16QAM/64QAM/256QAM		14.22	0.0264	13.489	13M5W7D
	20	QPSK	2510-2560	14.22	0.0264	17.979	18M0G7D
		16QAM/64QAM/256QAM		14.22	0.0264	17.980	18M0W7D
12	1.4	QPSK	699.7-715.3	6.00	0.0040	1.095	1M10G7D
		16QAM/64QAM/256QAM		6.00	0.0040	1.092	1M09W7D
	3	QPSK	700.5-714.5	6.00	0.0040	2.703	2M70G7D
		16QAM/64QAM/256QAM		6.00	0.0040	2.701	2M70W7D
	5	QPSK	701.5-713.5	6.00	0.0040	4.512	4M51G7D
		16QAM/64QAM/256QAM		6.00	0.0040	4.527	4M53W7D
	10	QPSK	704-711	6.00	0.0040	8.996	9M00G7D
		16QAM/64QAM/256QAM		6.00	0.0040	8.997	9M00W7D
13	5	QPSK	779.5-784.5	12.93	0.0196	4.526	4M53G7D
		16QAM/64QAM/256QAM		12.93	0.0196	4.520	4M52W7D
	10	QPSK	782-782	12.93	0.0196	8.975	8M97G7D
		16QAM/64QAM/256QAM		12.93	0.0196	8.967	8M97W7D
14	5	QPSK	790.5-795.5	12.93	0.0196	4.519	4M52G7D
		16QAM/64QAM/256QAM		12.93	0.0196	4.514	4M51W7D
	10	QPSK	793-793	12.93	0.0196	8.960	8M96G7D
		16QAM/64QAM/256QAM		12.93	0.0196	8.971	8M97W7D
17	5	QPSK	706.5-713.5	6.00	0.0040	4.512	4M51G7D
		16QAM/64QAM/256QAM		6.00	0.0040	4.527	4M53W7D
	10	QPSK	709-711	6.00	0.0040	8.996	9M00G7D
		16QAM/64QAM/256QAM		6.00	0.0040	8.997	9M00W7D
25	1.4	QPSK	1850.7-1914.3	25.27	0.3365	1.093	1M09G7D
		16QAM/64QAM/256QAM		25.27	0.3365	1.094	1M09W7D
	3	QPSK	1851.5-1913.5	25.27	0.3365	2.702	2M70G7D
		16QAM/64QAM/256QAM		25.27	0.3365	2.702	2M70W7D
	5	QPSK	1852.5-1912.5	25.27	0.3365	4.513	4M51G7D
		16QAM/64QAM/256QAM		25.27	0.3365	4.513	4M51G7D

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Summary of Results:							
Bands	BW	Modulation	Frequency Range	ERP/EIRP		99% BW	Emission Designator
	(MHz)			(dBm)	(W)		
	10	16QAM/64QAM/256QAM	1855.0-1910.0	25.27	0.3365	4.511	4M51W7D
		QPSK		25.27	0.3365	8.997	9M00G7D
	15	16QAM/64QAM/256QAM	1857.5-1907.5	25.27	0.3365	8.990	8M99W7D
		QPSK		25.27	0.3365	13.505	13M5G7D
	20	16QAM/64QAM/256QAM	1860.0-1905.0	25.27	0.3365	13.503	13M5W7D
		QPSK		25.27	0.3365	17.966	18M0G7D
		16QAM/64QAM/256QAM		25.27	0.3365	17.990	18M0W7D
		QPSK		25.27	0.3365	17.990	18M0W7D
26	1.4	16QAM/64QAM/256QAM	824.7-848.3	16.30	0.0427	1.094	1M09G7D
		QPSK		16.30	0.0427	1.093	1M09W7D
	3	16QAM/64QAM/256QAM	825.5-847.5	16.30	0.0427	2.703	2M70G7D
		QPSK		16.30	0.0427	2.697	2M70W7D
	5	16QAM/64QAM/256QAM	826.5-846.5	16.30	0.0427	4.506	4M51G7D
		QPSK		16.30	0.0427	4.518	4M52W7D
	10	16QAM/64QAM/256QAM	829-844	16.30	0.0427	8.969	8M97G7D
		QPSK		16.30	0.0427	8.971	8M97W7D
	15	16QAM/64QAM/256QAM	831.5-841.5	16.30	0.0427	13.409	13M4G7D
		QPSK		16.30	0.0427	13.391	13M4W7D
	1.4	16QAM/64QAM/256QAM	814.7-823.3	16.30	0.0427	1.096	1M10G7D
		QPSK		16.30	0.0427	1.092	1M09W7D
26 (Part 90S)	3	16QAM/64QAM/256QAM	815.5-822.5	16.30	0.0427	2.708	2M71G7D
		QPSK		16.30	0.0427	2.695	2M69W7D
	5	16QAM/64QAM/256QAM	816.5-821.5	16.30	0.0427	4.509	4M51G7D
		QPSK		16.30	0.0427	4.524	4M52W7D
	10	16QAM/64QAM/256QAM	819	16.30	0.0427	8.996	9M00G7D
		QPSK		16.30	0.0427	8.989	8M99W7D
	5	16QAM/64QAM/256QAM	2572.5-2617.5	22.04	0.1600	4.507	4M51G7D
		QPSK		22.04	0.1600	4.512	4M51W7D
38	10	16QAM/64QAM/256QAM	2575-2615	22.04	0.1600	9.017	9M02G7D
		QPSK		22.04	0.1600	9.001	9M00W7D
	15	16QAM/64QAM/256QAM	2577.5-2612.5	22.04	0.1600	13.478	13M5G7D
		QPSK		22.04	0.1600	13.509	13M5W7D
	20	16QAM/64QAM/256QAM	2580-2610	22.04	0.1600	17.971	18M0G7D
		QPSK		22.04	0.1600	17.959	18M0W7D
	5	16QAM/64QAM/256QAM	2498.5-2687.5	22.04	0.1600	4.507	4M51G7D
		QPSK		22.04	0.1600	4.512	4M51W7D
41	10	16QAM/64QAM/256QAM	2501-2685	22.04	0.1600	9.017	9M02G7D
		QPSK		22.04	0.1600	9.001	9M00W7D
	15	16QAM/64QAM/256QAM	2503.5-2682.5	22.04	0.1600	13.478	13M5G7D
		QPSK		22.04	0.1600	13.509	13M5W7D
	20	16QAM/64QAM/256QAM	2506-2680	22.04	0.1600	17.971	18M0G7D
		QPSK		22.04	0.1600	17.959	18M0W7D
	5	16QAM/64QAM/256QAM	2498.5-2687.5	22.04	0.1600	4.507	4M51G7D
		QPSK		22.04	0.1600	4.512	4M51W7D
66	1.4	16QAM/64QAM/256QAM	1710.7-1779.3	25.58	0.3614	1.093	1M09G7D
		QPSK		25.58	0.3614	1.094	1M09W7D
	3	16QAM/64QAM/256QAM	1711.5-1778.5	25.58	0.3614	2.702	2M70G7D
		QPSK		25.58	0.3614	2.694	2M69W7D
	5	16QAM/64QAM/256QAM	1712.5-1777.5	25.58	0.3614	4.512	4M51G7D
		QPSK		25.58	0.3614	4.523	4M52W7D
	10	16QAM/64QAM/256QAM	1715-1775	25.58	0.3614	8.993	8M99G7D
		QPSK		25.58	0.3614	8.990	8M99W7D
	15	16QAM/64QAM/256QAM	1717.5-1772.5	25.58	0.3614	13.475	13M5G7D
		QPSK		25.58	0.3614	13.493	13M5W7D
	20	16QAM/64QAM/256QAM	1720-1770	25.58	0.3614	17.976	18M0G7D
		QPSK		25.58	0.3614	17.989	18M0W7D
	5	16QAM/64QAM/256QAM	665.5-695.5	1.01	0.0013	4.508	4M51G7D
		QPSK		1.01	0.0013	4.523	4M52W7D
	10	16QAM/64QAM/256QAM	668-693	1.01	0.0013	8.972	8M97G7D
		QPSK		1.01	0.0013	8.982	8M98W7D
71	15	16QAM/64QAM/256QAM	670.5-690.5	1.01	0.0013	13.424	13M4G7D
		QPSK		1.01	0.0013	13.462	13M5W7D
	20	16QAM/64QAM/256QAM	673-688	1.01	0.0013	17.942	17M9G7D
		QPSK		1.01	0.0013	17.910	17M9W7D

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	24.27	0.2673	4.487	4M49G7D
		16QAM / 64QAM / 256QAM		24.27	0.2673	4.482	4M48W7D
	10	PI/2 BPSK / QPSK	1855.0-1905.0	24.27	0.2673	8.929	8M93G7D
		16QAM / 64QAM / 256QAM		24.27	0.2673	8.956	8M96W7D
	15	PI/2 BPSK / QPSK	1857.5-1902.5	24.27	0.2673	13.432	13M4G7D
		16QAM / 64QAM / 256QAM		24.27	0.2673	13.427	13M4W7D
n5	5	PI/2 BPSK / QPSK	826.5-846.5	24.27	0.2673	17.847	17M8G7D
		16QAM / 64QAM / 256QAM		24.27	0.2673	17.890	17M9W7D
	10	PI/2 BPSK / QPSK	829-844	15.30	0.0339	4.489	4M49G7D
		16QAM / 64QAM / 256QAM		15.30	0.0339	4.484	4M48W7D
	15	PI/2 BPSK / QPSK	831-844	15.30	0.0339	8.928	8M93G7D
		16QAM / 64QAM / 256QAM		15.30	0.0339	8.951	8M95W7D
n7	5	PI/2 BPSK / QPSK	834-839	15.30	0.0339	13.433	13M4G7D
		16QAM / 64QAM / 256QAM		15.30	0.0339	13.438	13M4W7D
	10	PI/2 BPSK / QPSK	829-844	15.30	0.0339	17.846	17M8G7D
		16QAM / 64QAM / 256QAM		15.30	0.0339	17.871	17M9W7D
	15	PI/2 BPSK / QPSK	831-844	15.30	0.0339	17.871	17M9W7D
		16QAM / 64QAM / 256QAM		15.30	0.0339	17.871	17M9W7D
n12	5	PI/2 BPSK / QPSK	2502.5-2567.5	14.22	0.0264	4.489	4M49G7D
		16QAM / 64QAM / 256QAM		14.22	0.0264	4.484	4M48W7D
	10	PI/2 BPSK / QPSK	2505-2565	14.22	0.0264	8.924	8M92G7D
		16QAM / 64QAM / 256QAM		14.22	0.0264	8.946	8M95W7D
	15	PI/2 BPSK / QPSK	2507.5-2562.5	14.22	0.0264	13.428	13M4G7D
		16QAM / 64QAM / 256QAM		14.22	0.0264	13.436	13M4W7D
n13	5	PI/2 BPSK / QPSK	2510-2560	14.22	0.0264	17.869	17M9G7D
		16QAM / 64QAM / 256QAM		14.22	0.0264	17.882	17M9W7D
	10	PI/2 BPSK / QPSK	701.5-713.5	5.50	0.0035	4.485	4M49G7D
		16QAM / 64QAM / 256QAM		5.50	0.0035	4.488	4M49W7D
	15	PI/2 BPSK / QPSK	704-711	5.50	0.0035	8.922	8M92G7D
		16QAM / 64QAM / 256QAM		5.50	0.0035	8.952	8M95W7D
n14	5	PI/2 BPSK / QPSK	706.5-708.5	5.50	0.0035	13.411	13M4G7D
		16QAM / 64QAM / 256QAM		5.50	0.0035	13.418	13M4W7D
	10	PI/2 BPSK / QPSK	779.5-784.5	12.93	0.0196	4.492	4M49G7D
		16QAM / 64QAM / 256QAM		12.93	0.0196	4.495	4M49W7D
	15	PI/2 BPSK / QPSK	782-782	12.93	0.0196	8.907	8M91G7D
		16QAM / 64QAM / 256QAM		12.93	0.0196	8.928	8M93W7D
n25	5	PI/2 BPSK / QPSK	790.5-795.5	12.93	0.0196	4.500	4M50G7D
		16QAM / 64QAM / 256QAM		12.93	0.0196	4.485	4M49W7D
	10	PI/2 BPSK / QPSK	793-793	12.93	0.0196	8.911	8M91G7D
		16QAM / 64QAM / 256QAM		12.93	0.0196	8.931	8M93W7D
	15	PI/2 BPSK / QPSK	1852.5-1912.5	24.27	0.2673	4.487	4M49G7D
		16QAM / 64QAM / 256QAM		24.27	0.2673	4.482	4M48W7D
n26	5	PI/2 BPSK / QPSK	1855.0-1910.0	24.27	0.2673	8.929	8M93G7D
		16QAM / 64QAM / 256QAM		24.27	0.2673	8.956	8M96W7D
	10	PI/2 BPSK / QPSK	1857.5-1907.5	24.27	0.2673	13.432	13M4G7D
		16QAM / 64QAM / 256QAM		24.27	0.2673	13.427	13M4W7D
	15	PI/2 BPSK / QPSK	1860.0-1905.0	24.27	0.2673	17.847	17M8G7D
		16QAM / 64QAM / 256QAM		24.27	0.2673	17.890	17M9W7D
n26 (Part 90S)	5	PI/2 BPSK / QPSK	826.5-846.5	15.80	0.0380	4.489	4M49G7D
		16QAM / 64QAM / 256QAM		15.80	0.0380	4.484	4M48W7D
	10	PI/2 BPSK / QPSK	829-844	15.80	0.0380	8.928	8M93G7D
		16QAM / 64QAM / 256QAM		15.80	0.0380	8.951	8M95W7D
	15	PI/2 BPSK / QPSK	831.5-841.5	15.80	0.0380	13.433	13M4G7D
		16QAM / 64QAM / 256QAM		15.80	0.0380	13.438	13M4W7D
n38	5	PI/2 BPSK / QPSK	834-839	15.80	0.0380	17.846	17M8G7D
		16QAM / 64QAM / 256QAM		15.80	0.0380	17.871	17M9W7D
	10	PI/2 BPSK / QPSK	816.5-821.5	15.80	0.0380	4.495	4M50G7D
		16QAM / 64QAM / 256QAM		15.80	0.0380	4.488	4M49W7D
	15	PI/2 BPSK / QPSK	819	15.80	0.0380	8.931	8M93G7D
		16QAM / 64QAM / 256QAM		15.80	0.0380	8.946	8M95W7D
n41	20	PI/2 BPSK / QPSK	2580-2610	21.54	0.1426	17.910	17M9G7D
		16QAM / 64QAM / 256QAM		21.54	0.1426	17.935	17M9W7D
	30	PI/2 BPSK / QPSK	2506.02-2679.99	21.54	0.1426	17.910	17M9G7D
		16QAM / 64QAM / 256QAM		21.54	0.1426	17.935	17M9W7D
	40	PI/2 BPSK / QPSK	2511.00-2674.98	21.54	0.1426	26.889	26M9G7D
		16QAM / 64QAM / 256QAM		21.54	0.1426	26.884	26M9W7D
n41	20	PI/2 BPSK / QPSK	2516.01-2670.00	21.54	0.1426	35.807	35M8G7D
		16QAM / 64QAM / 256QAM		21.54	0.1426	35.806	35M8W7D

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5G NR	BW (MHz)	Modulation	Frequency Range (MHz)	ERP/EIRP		99% BW (MHz)	Emission Designator
				(dBm)	(W)		
	50	PI/2 BPSK / QPSK	2521.02-2664.99	21.54	0.1426	45.874	45M9G7D
		16QAM / 64QAM / 256QAM		21.54	0.1426	45.910	45M9W7D
	60	PI/2 BPSK / QPSK	2526.00-2659.98	21.54	0.1426	57.970	58M0G7D
		16QAM / 64QAM / 256QAM		21.54	0.1426	57.948	57M9W7D
	70	PI/2 BPSK / QPSK	2531.01-2655.00	21.54	0.1426	64.402	64M4G7D
		16QAM / 64QAM / 256QAM		21.54	0.1426	64.254	64M3W7D
	80	PI/2 BPSK / QPSK	2536.02-2649.99	21.54	0.1426	77.172	77M2G7D
		16QAM / 64QAM / 256QAM		21.54	0.1426	77.209	77M2W7D
	90	PI/2 BPSK / QPSK	2541.00-2644.98	21.54	0.1426	86.687	86M7G7D
		16QAM / 64QAM / 256QAM		21.54	0.1426	86.763	86M8W7D
	100	PI/2 BPSK / QPSK	2546.01-2640.00	21.54	0.1426	96.374	96M4G7D
		16QAM / 64QAM / 256QAM		21.54	0.1426	96.516	96M5W7D
n66	5	PI/2 BPSK / QPSK	1712.5-1777.5	25.08	0.3221	4.488	4M49G7D
		16QAM / 64QAM / 256QAM		25.08	0.3221	4.489	4M49W7D
	10	PI/2 BPSK / QPSK	1715-1775	25.08	0.3221	8.931	8M93G7D
		16QAM / 64QAM / 256QAM		25.08	0.3221	8.934	8M93W7D
	15	PI/2 BPSK / QPSK	1717.5-1772.5	25.08	0.3221	13.405	13M4G7D
		16QAM / 64QAM / 256QAM		25.08	0.3221	13.408	13M4W7D
	20	PI/2 BPSK / QPSK	1720-1770	25.08	0.3221	17.896	17M9G7D
		16QAM / 64QAM / 256QAM		25.08	0.3221	17.880	17M9W7D
	5	PI/2 BPSK / QPSK	665.5-695.5	1.51	0.0014	4.489	4M49G7D
		16QAM / 64QAM / 256QAM		1.51	0.0014	4.483	4M48W7D
n71	10	PI/2 BPSK / QPSK	668-693	1.51	0.0014	8.916	8M92G7D
		16QAM / 64QAM / 256QAM		1.51	0.0014	8.947	8M95W7D
	15	PI/2 BPSK / QPSK	670.5-690.5	1.51	0.0014	13.414	13M4G7D
		16QAM / 64QAM / 256QAM		1.51	0.0014	13.424	13M4W7D
	20	PI/2 BPSK / QPSK	673-688	1.51	0.0014	17.815	17M8G7D
		16QAM / 64QAM / 256QAM		1.51	0.0014	17.847	17M8W7D

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	Bluebird	N/A	S202605138612-P JA02	Bluebird

2) Support Cable

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

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 and 5G NR n13)			
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 90R Test Cases (LTE Band 14 and 5G NR n14)			
Test Item	Test Requirement	Test Method	Result
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046 & FCC 47 CFR Part 90.542(a)(7)	KDB 412172 D01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046	ANSI C63.26-2015, Clause 5.2	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI C63.26-2015, Clause 5.4	PASS
Emission Mask	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 90.543	ANSI C63.26-2015, Clause 5.7	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 90.543	ANSI C63.26-2015, Clause 5.7	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 90.543	ANSI C63.26-2015, Clause 5.5	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 90.539	ANSI C63.26-2015, Clause 5.6	PASS
Peak-to-average power ratio (PAPR)	N/A	ANSI C63.26-2015, Clause 5.2.3.4	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	ROHDE & SCHWARZ	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)		

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F., Block A, Building 6, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, Guangdong, China

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E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCC4G-V1.1

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

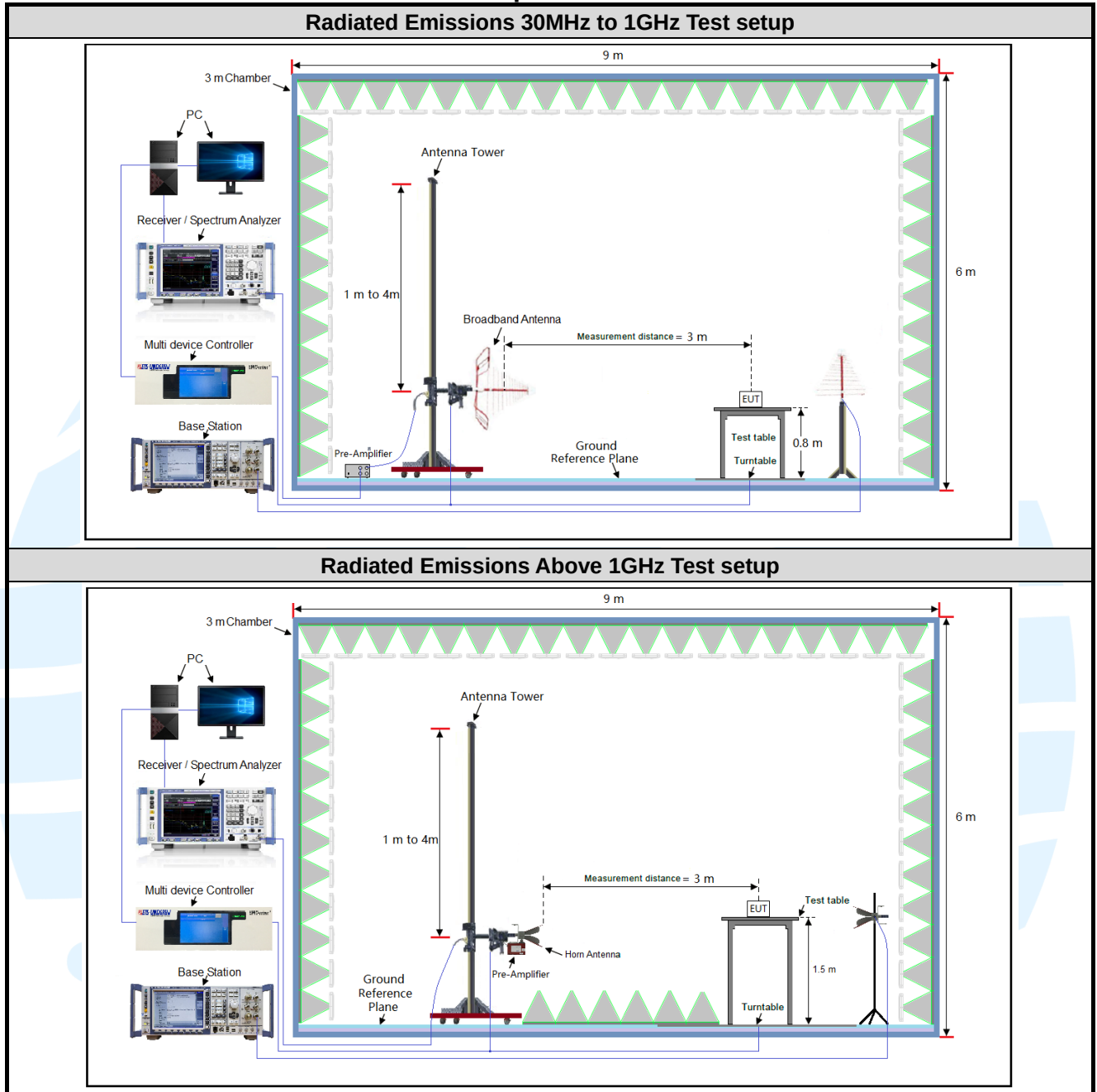
Test Environment	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
TN/VN	+15 to +35	3.87	20 to 75
TL/VL	-30	3.4	20 to 75
TH/VL	+50	3.4	20 to 75
TL/VH	-30	4.38	20 to 75
TH/VH	+50	4.38	20 to 75

Remark:

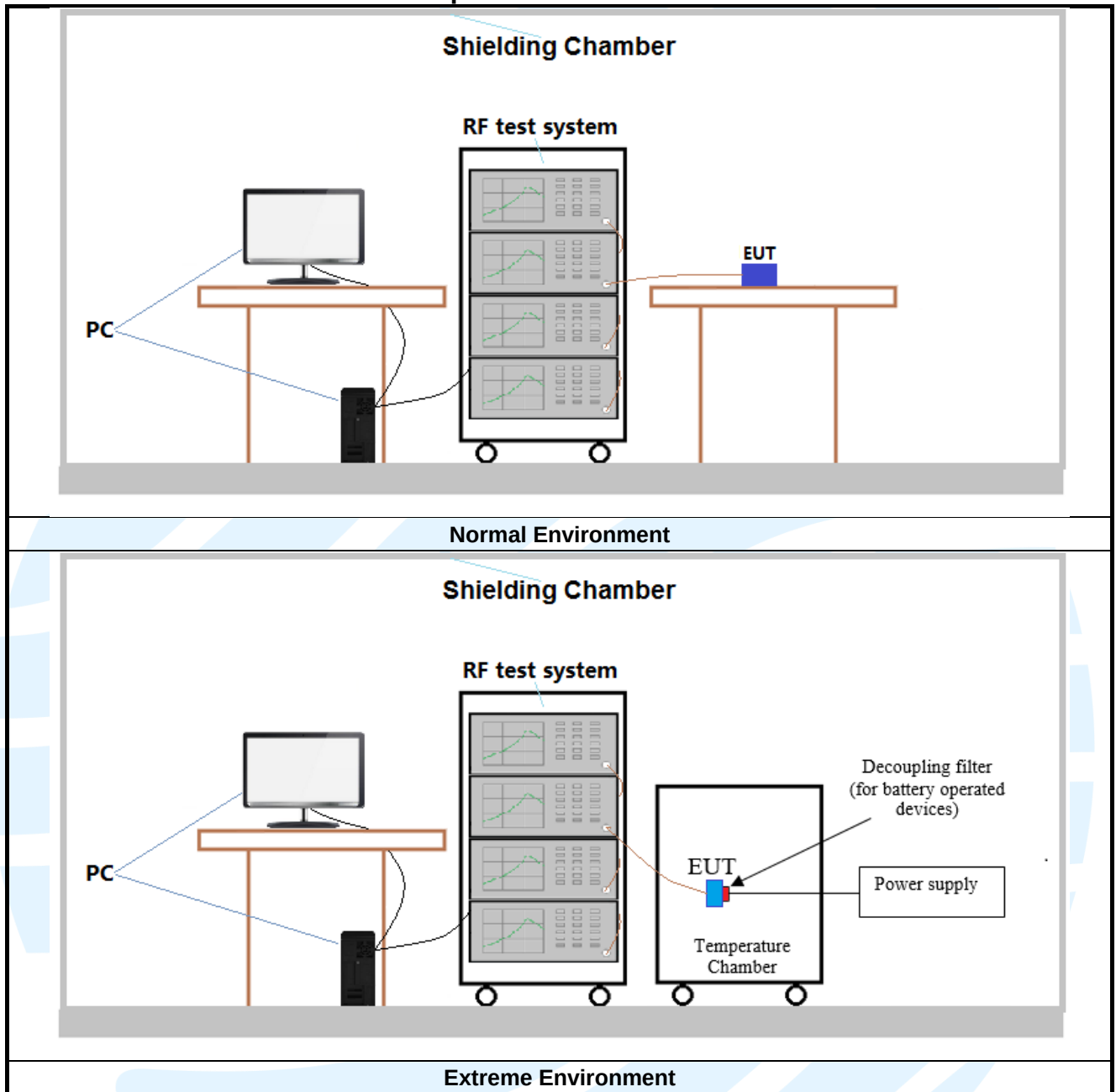
- 1) The EUT just work in such extreme temperature of -30 °C to +50 °C and the extreme voltage of 3.4 V to 4.38 V, so here the EUT is tested in the temperature of -30 °C to +50 °C and the voltage of 3.4 V to 4.38 V.
- 2) VN: Normal Voltage; TN: Normal Temperature;
TL: Low Extreme Test Temperature; TH: 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 ^{Note 1)}	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 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).
- The EUT supports SA and NSA mode, according to the maximum power between SA and NSA mode, NSA covered SA mode.
- The EN-DC combinations declared by the manufacturer are as follows:

EN-DC Combinations		
DC_B2A+N78A	DC_B66A+n5A	DC_B2A+B7A+n78A
DC_B4A+N78A	DC_B5A+n66A	DC_B2A+B66A+n78A
DC_B2A+N12A	DC_B2A+n71AA	DC_B2A+B5A+n78A
DC_B12A+N77A	DC_B66A+n71AA	DC_B2A+B12A+n78A
DC_B13A+N77A	DC_B66A+N12A	DC_B13A+B66A+n77A
DC_B38A+N78A	DC_B12A+N66A	DC_B2A+B13A+n77A
DC_B12A+N78A	DC_B71A+N66A	DC_B2A+B5A+n77A
DC_B25A+N78A	DC_B2A+N71A	DC_B2A+B66A+n77A
DC_B25A+N77A	DC_B66A+N71A	DC_B5A+B66A+n77A
DC_B2A+N5A	DC_12A+n41A	DC_B2A+B66A+n12A
DC_B13A+N66A	DC_B26A+N41A	DC_B7A+B66A+n5A
DC_B5A+N2A	DC_B13A+N2A	DC_B2A+B7A+n71A
DC_B66A+n78A	DC_B48A+N5A	DC_B2A+B66A+n71A
DC_B66A+n77A	DC_B48A+N66A	DC_B2A+B66A+n71AA
		DC_B2A+B66A+n5A

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 14 and 5G NR n14: N/A

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

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.

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

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	22.42	22.23	22.37	21.28	21.16	21.37	20.71	21.08	21.32	18.06	17.81	18.07
		1RB#2	22.44	22.23	22.42	21.64	21.32	21.66	21.07	21.16	21.26	17.90	17.88	18.38
		1RB#5	22.33	22.18	22.35	21.44	21.05	21.15	20.70	21.06	21.23	17.72	17.70	18.00
		3RB#0	22.34	22.28	22.45	21.28	21.13	21.27	20.73	20.96	21.07	17.81	17.79	17.86
		3RB#1	22.43	22.38	22.54	21.45	21.25	21.50	20.91	20.86	20.87	17.89	17.77	17.91
		3RB#3	22.34	22.22	22.33	21.33	21.07	21.21	20.73	20.90	21.05	17.76	17.75	17.75
		6RB#0	21.39	21.34	21.53	20.25	20.33	20.61	19.74	19.91	19.90	17.85	17.73	18.15
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	22.55	22.50	22.59	21.53	21.38	21.40	20.85	20.88	21.39	18.09	18.10	17.98
		1RB#8	22.51	22.49	22.50	21.38	21.59	21.56	20.09	21.10	21.49	18.34	18.25	18.38
		1RB#14	22.35	22.28	22.41	21.40	21.22	21.26	20.03	20.04	20.18	17.90	17.93	18.13
		8RB#0	21.54	21.45	21.56	20.52	20.47	20.67	20.04	20.00	20.22	17.97	17.94	18.11
		8RB#4	21.46	21.41	21.53	20.49	20.38	20.39	19.95	19.93	20.16	17.93	17.93	18.07
		8RB#7	21.40	21.33	21.52	20.42	20.37	20.48	20.06	19.98	20.17	17.86	17.85	18.03
		15RB#0	21.48	21.35	21.52	20.51	20.30	20.36	20.05	20.00	20.22	17.99	17.99	18.24
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	22.46	22.43	22.56	21.66	21.36	21.43	20.94	20.70	21.66	18.34	18.26	18.30
		1RB#12	22.39	22.14	22.34	21.44	21.31	21.41	20.10	20.89	21.65	18.22	18.29	18.45
		1RB#24	22.40	22.32	22.46	21.42	21.24	21.43	20.09	20.08	20.15	18.22	18.22	18.25
		12RB#0	21.52	21.44	21.57	20.59	20.44	20.53	20.09	20.06	20.10	18.09	18.04	18.23
		12RB#6	21.49	21.43	21.54	20.56	20.37	20.59	20.15	20.11	20.31	18.09	18.04	18.16
		12RB#13	21.44	21.33	21.44	20.51	20.32	20.50	20.08	20.04	20.10	17.96	17.96	18.11
		25RB#0	21.48	21.39	21.53	20.44	20.43	20.55	20.08	20.05	20.13	18.03	17.99	18.18
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	22.46	22.32	22.42	21.50	21.10	21.61	20.82	20.82	21.27	18.13	17.99	17.77
		1RB#24	22.51	22.32	22.48	21.50	21.38	21.39	19.98	20.95	21.43	17.93	18.14	17.89
		1RB#49	22.34	22.28	22.43	21.25	21.15	21.51	20.01	20.04	20.13	18.12	17.93	17.86
		25RB#0	21.53	21.46	21.52	20.51	20.45	20.54	20.03	20.03	20.17	18.12	18.07	18.22
		25RB#12	21.52	21.42	21.50	20.51	20.39	20.51	20.09	20.06	20.18	18.06	18.06	18.21
		25RB#25	21.36	21.38	21.48	20.38	20.40	20.49	20.01	20.05	20.13	17.98	17.99	18.15
		50RB#0	21.41	21.42	21.52	20.43	20.40	20.44	20.02	20.04	20.12	18.07	18.01	18.13
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	22.22	22.14	22.30	21.52	21.05	21.38	20.79	21.00	20.79	18.06	17.64	18.06
		1RB#38	22.37	22.13	22.27	21.28	21.16	21.22	19.90	21.12	20.86	17.77	17.48	17.92
		1RB#74	22.09	22.05	22.24	21.37	20.94	21.31	19.87	19.92	20.01	17.84	17.58	18.08
		38RB#0	21.21	21.21	21.33	21.20	21.20	21.33	19.89	19.91	20.02	19.88	19.89	20.00
		38RB#18	21.29	21.22	21.32	20.28	20.20	20.32	19.89	19.94	20.03	17.88	17.90	18.01
		38RB#37	21.21	21.22	21.29	21.23	21.21	21.29	21.78	19.96	20.02	21.79	19.93	20.04
		75RB#0	21.21	21.22	21.28	20.29	20.23	20.27	19.87	19.94	20.02	17.85	17.87	18.00
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	22.26	22.20	22.62	21.37	21.36	21.12	21.00	21.12	20.66	18.00	18.18	17.92
		1RB#49	22.21	22.14	22.59	21.39	21.29	21.18	19.94	21.21	20.54	18.01	18.12	17.96
		1RB#99	22.15	22.20	22.57	21.13	21.35	21.09	19.93	19.94	20.01	17.83	18.11	18.02
		50RB#0	21.34	21.28	21.33	20.33	20.29	20.35	19.94	19.95	20.01	17.97	17.96	17.98
		50RB#25	21.33	21.27	21.31	20.34	20.27	20.34	19.96	19.98	20.04	17.96	17.91	18.01
		50RB#50	21.19	21.26	21.33	20.22	20.20	20.35	19.95	19.98	20.02	17.86	17.91	18.00
		100RB#0	21.34	21.27	21.32	20.31	20.26	20.28	19.93	19.96	20.00	17.92	17.90	18.02

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	22.54	22.59	22.51	22.43	22.41	22.46	22.40	22.33	22.31	22.34	22.22	22.21
	$\pi/2$ BPSK	1	Right	22.55	22.51	22.50	22.54	22.43	22.45	22.38	22.34	22.38	22.25	22.25	22.34
	$\pi/2$ BPSK	Innter_Full	Mid	22.60	22.57	22.54	22.57	22.54	22.58	22.39	22.43	22.45	22.20	22.31	22.34
	QPSK	1	Left	22.60	22.43	22.54	22.62	22.52	22.49	22.45	22.33	22.38	22.31	22.15	22.17
	QPSK	1	Right	22.52	22.46	22.50	22.48	22.41	22.60	22.46	22.24	22.38	22.19	22.32	22.65
	QPSK	Innter_Full	Mid	22.63	22.48	22.62	22.60	22.51	22.55	22.50	22.38	22.40	22.34	22.30	22.36
	16QAM	1	Left	21.65	21.56	21.64	21.59	21.78	21.52	21.43	21.34	21.32	21.44	21.14	21.25
	16QAM	1	Right	21.57	21.51	21.58	21.08	21.31	21.46	21.36	21.31	21.39	21.24	21.26	21.37
	16QAM	Innter_Full	Mid	21.73	21.68	21.75	21.57	21.50	21.57	21.36	21.37	21.39	21.29	21.25	21.37
	64QAM	1	Left	20.37	20.29	20.28	20.33	20.25	20.21	19.98	19.99	19.99	20.01	19.87	19.91
	64QAM	1	Right	20.13	20.09	20.18	20.20	20.11	20.23	19.88	20.00	19.85	19.89	20.00	20.12
	64QAM	Innter_Full	Mid	20.16	20.05	20.15	20.10	20.05	20.08	19.92	19.90	20.01	19.84	19.82	19.90
	256QAM	1	Left	18.10	18.00	18.03	18.07	17.98	18.03	17.93	17.78	17.90	17.81	17.57	17.69
	256QAM	1	Right	17.96	17.91	17.97	17.96	17.86	17.99	17.86	17.73	17.84	17.68	17.66	17.71
CP-OFDM	256QAM	Innter_Full	Mid	18.05	18.03	17.99	18.01	18.04	18.01	17.88	17.91	17.89	17.80	17.74	17.89
	QPSK	1	Left	21.21	20.99	21.13	21.06	21.04	21.03	20.83	20.86	20.72	20.97	20.45	20.74
	QPSK	1	Right	20.96	20.94	21.01	20.98	21.00	21.10	20.70	20.70	20.90	20.84	20.80	20.83
	QPSK	Innter_Full	Mid	21.11	21.06	21.07	21.02	20.96	20.98	20.87	20.83	20.86	20.82	20.75	20.81
	16QAM	1	Left	20.67	20.54	20.70	20.67	20.64	20.56	20.33	20.35	20.33	20.51	20.35	20.40
	16QAM	1	Right	20.64	20.59	20.64	20.55	20.51	20.61	20.36	20.32	20.39	20.47	20.39	20.39
	16QAM	Innter_Full	Mid	20.62	20.62	20.68	20.56	20.46	20.55	20.41	20.39	20.43	20.18	20.23	20.33
	64QAM	1	Left	19.11	18.95	19.02	19.10	19.05	19.21	19.13	18.67	19.01	18.87	18.85	18.78
	64QAM	1	Right	19.49	18.86	19.18	19.10	19.05	19.19	19.06	18.72	19.06	18.82	18.88	18.86
	64QAM	Innter_Full	Mid	19.03	18.99	18.97	18.99	19.00	18.96	18.92	18.86	18.93	18.91	18.70	18.99
	256QAM	1	Left	16.43	16.21	16.27	16.22	16.23	16.27	16.22	16.10	16.33	16.18	16.01	15.94
	256QAM	1	Right	16.23	16.08	16.22	16.19	16.10	16.19	16.16	16.11	16.17	16.10	15.95	16.16
	256QAM	Innter_Full	Mid	16.15	16.01	16.03	15.99	15.97	16.01	15.92	15.89	15.94	15.81	15.79	15.85

5.2.2 LTE Band 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	22.38	22.49	22.59	21.30	21.46	21.45	21.15	21.18	21.58	17.75	17.73	17.98
		1RB#2	22.44	22.27	22.70	21.66	21.53	21.67	19.82	21.19	21.30	17.73	18.32	18.12
		1RB#5	22.44	22.37	22.58	21.33	21.32	21.51	19.81	19.97	20.04	17.72	18.05	17.93
		3RB#0	22.44	22.45	22.58	21.49	21.27	21.55	19.83	19.99	19.96	17.85	17.81	18.06
		3RB#1	22.44	22.52	22.60	21.48	21.32	21.67	21.21	20.80	21.32	17.97	17.82	18.14
		3RB#3	22.39	22.37	22.58	21.24	21.26	21.45	19.98	19.94	19.99	17.90	17.94	18.06
		6RB#0	21.43	21.49	21.62	20.42	20.50	20.51	20.04	20.03	20.05	17.90	18.03	18.12
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	22.55	22.47	22.79	21.31	21.55	21.56	20.93	20.74	21.41	18.17	18.04	17.99
		1RB#8	22.55	22.59	22.73	21.58	21.58	21.91	20.00	21.16	21.55	18.17	18.49	17.95
		1RB#14	22.51	22.50	22.74	21.33	21.58	21.46	20.07	20.12	20.06	18.14	18.16	18.04
		8RB#0	21.59	21.52	21.74	20.59	20.50	20.65	20.06	20.13	20.16	18.09	17.91	18.34
		8RB#4	21.60	21.62	21.76	20.42	20.60	20.70	22.17	20.05	20.20	18.15	18.08	18.29
		8RB#7	21.53	21.53	21.68	20.57	20.50	20.64	20.00	20.13	20.13	18.07	18.01	18.32
		15RB#0	21.56	21.58	21.75	20.42	20.59	20.66	20.04	20.13	20.16	18.11	18.16	18.19
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	22.60	22.57	22.74	21.55	21.57	21.84	20.83	21.25	21.10	18.31	18.20	18.54
		1RB#12	22.37	22.41	22.75	21.52	21.40	22.00	21.04	21.23	21.20	18.23	18.23	18.46
		1RB#24	22.57	22.62	22.71	21.45	21.50	21.87	20.18	20.17	20.38	18.37	18.19	18.54
		12RB#0	21.55	21.54	21.78	20.56	20.52	20.83	20.26	20.17	20.37	18.13	18.08	18.28
		12RB#6	21.58	21.54	21.81	20.53	20.55	20.83	20.23	20.05	20.36	18.14	18.10	18.27
		12RB#13	21.58	21.59	21.71	20.56	20.60	20.78	20.19	20.16	20.35	18.10	18.14	18.31
		25RB#0	21.56	21.62	21.75	20.65	20.60	20.72	20.22	20.15	20.36	18.13	18.13	18.28
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	22.59	22.44	22.63	21.33	21.63	21.68	20.97	20.94	21.38	18.24	18.02	17.95
		1RB#24	22.45	22.47	22.77	21.54	21.52	21.76	20.92	21.05	21.50	17.97	18.30	17.98
		1RB#49	22.40	22.49	22.61	21.32	21.64	21.52	20.17	20.16	21.37	18.20	18.07	17.97
		25RB#0	21.59	21.62	21.72	20.61	20.55	20.74	20.13	20.16	20.28	18.14	18.04	18.27
		25RB#12	21.64	21.63	21.67	20.62	20.64	20.72	20.17	20.19	20.24	18.14	18.19	18.34
		25RB#25	21.56	21.65	21.77	20.59	20.61	20.78	20.14	20.16	20.28	18.16	18.20	18.33
		50RB#0	21.60	21.65	21.70	20.62	20.63	20.66	20.16	20.15	20.28	18.21	18.17	18.23
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	22.37	22.35	22.44	21.28	21.51	21.72	20.83	21.07	21.22	18.01	18.03	17.81
		1RB#38	22.32	22.44	22.61	21.35	21.32	21.56	20.78	21.13	21.31	17.90	18.15	18.34
		1RB#74	22.31	22.30	22.38	21.13	21.50	21.63	20.00	20.06	20.16	18.00	18.08	18.14
		38RB#0	21.40	21.45	21.48	21.42	21.45	21.49	20.03	20.05	20.12	20.01	20.03	20.13
		38RB#18	21.46	21.45	21.59	20.46	20.41	20.59	20.05	20.03	20.17	18.05	17.94	18.11
		38RB#37	21.44	21.44	21.46	21.42	21.46	21.47	20.04	19.99	20.09	20.08	19.94	20.06
		75RB#0	21.41	21.44	21.53	20.42	20.40	20.54	20.04	19.95	20.03	17.99	18.01	18.12
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	22.38	22.43	22.84	21.23	21.40	21.72	21.22	21.24	20.75	18.08	18.24	18.06
		1RB#49	22.30	22.35	22.77	21.25	21.36	21.61	21.04	21.36	20.67	18.03	18.23	18.08
		1RB#99	22.24	22.55	22.72	21.13	21.44	21.67	20.00	20.10	20.11	18.03	18.41	18.17
		50RB#0	21.38	21.49	21.57	20.44	20.41	20.56	20.05	20.12	20.10	17.98	18.01	18.09
		50RB#25	21.44	21.52	21.64	20.48	20.53	20.67	20.11	20.04	20.21	18.06	18.03	18.17
		50RB#50	21.41	21.46	21.62	20.42	20.47	20.60	20.00	20.11	20.13	17.92	18.06	18.15
		100RB#0	21.45	21.52	21.55	20.44	20.52	20.56	20.00	20.13	20.11	18.00	18.05	18.11

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	21.78	22.58	22.61	21.57	21.58	21.45	21.50	21.33	20.87	18.11	17.83	18.15
		1RB#2	22.71	22.61	22.64	21.87	21.73	21.71	21.46	21.41	21.20	18.23	18.12	17.82
		1RB#5	22.63	22.63	22.70	21.59	21.56	21.43	20.12	20.03	19.88	18.24	18.14	17.80
		3RB#0	22.73	22.64	22.60	21.76	21.55	21.47	20.06	20.01	19.88	18.15	17.98	17.87
		3RB#1	22.80	22.69	22.62	21.82	21.54	21.59	21.33	21.34	21.10	18.21	17.99	18.01
		3RB#3	22.65	22.55	22.61	21.59	21.50	21.53	20.18	19.98	19.86	18.05	18.03	17.87
		6RB#0	21.76	21.66	21.63	20.70	20.62	20.49	20.22	20.13	19.87	18.28	18.02	18.01
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	22.76	22.76	22.74	21.88	21.67	21.54	21.18	21.07	21.01	18.51	18.26	18.20
		1RB#8	22.86	22.72	22.76	21.85	21.96	21.75	21.23	21.11	21.19	18.09	17.88	18.49
		1RB#14	22.76	22.71	22.72	21.84	21.67	21.52	20.19	20.08	20.14	18.00	17.95	18.15
		8RB#0	21.83	21.70	21.77	20.89	20.63	20.77	20.20	20.12	20.17	18.33	18.16	18.11
		8RB#4	21.85	21.78	21.73	20.78	20.75	20.62	20.25	20.20	20.09	18.28	18.23	18.17
5	5	8RB#7	21.83	21.72	21.75	20.82	20.75	20.75	20.22	20.09	20.20	18.29	18.26	18.07
		15RB#0	21.82	21.74	21.78	20.84	20.70	20.67	20.24	20.09	20.20	18.27	18.10	18.22
		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	22.92	22.80	22.70	21.86	21.88	21.65	21.06	21.65	21.27	18.67	18.34	18.23
		1RB#12	22.70	22.65	22.35	21.72	21.77	21.72	21.34	21.81	21.22	18.55	18.47	18.58
		1RB#24	22.88	22.82	22.65	21.85	22.06	21.71	20.42	20.11	20.18	18.64	18.40	18.28
5	10	12RB#0	21.94	21.76	21.72	20.85	20.80	20.75	20.35	20.14	20.16	18.31	18.22	18.16
		12RB#6	21.89	21.82	21.74	20.89	20.87	20.65	20.41	20.35	20.13	18.30	18.25	18.15
		12RB#13	21.81	21.77	21.73	20.86	20.82	20.77	20.34	20.15	20.09	18.32	18.19	18.17
		25RB#0	21.90	21.80	21.74	20.87	20.82	20.75	20.36	20.15	20.17	18.37	18.26	18.14
		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	22.93	22.72	22.70	21.85	21.69	21.52	21.12	21.03	21.31	18.44	18.16	17.83
5	10	1RB#24	22.72	22.71	22.65	21.70	21.83	21.73	21.04	21.17	21.36	18.13	18.40	17.89
		1RB#49	22.71	22.66	22.60	21.79	21.53	21.43	20.37	20.27	20.16	18.41	18.21	17.85
		25RB#0	21.84	21.74	21.72	20.79	20.83	20.79	20.32	20.28	20.18	18.30	18.21	18.21
		25RB#12	21.86	21.85	21.82	20.93	20.84	20.83	20.34	20.31	20.29	18.39	18.34	18.28
		25RB#25	21.86	21.79	21.76	20.84	20.79	20.78	20.36	20.26	20.18	18.34	18.23	18.23
		50RB#0	21.89	21.78	21.70	20.87	20.81	20.74	20.33	20.25	20.16	18.40	18.25	18.16

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	22.56	22.44	22.30	22.47	22.41	22.36	22.41	22.40	22.28	22.62	22.47	22.49
	$\pi/2$ BPSK	1	Right	22.39	22.34	22.17	22.34	22.26	22.18	22.30	22.13	22.09	22.30	22.32	22.22
	$\pi/2$ BPSK	Innter_Full	Mid	22.59	22.45	22.26	22.44	22.40	22.36	22.44	22.38	22.27	22.59	22.50	22.40
	QPSK	1	Left	22.61	22.48	22.34	22.46	22.49	22.29	22.43	22.41	22.31	22.64	22.60	22.57
	QPSK	1	Right	22.43	22.38	22.20	22.43	22.29	22.23	22.23	22.15	22.10	22.27	22.27	22.23
	QPSK	Innter_Full	Mid	22.63	22.47	22.31	22.54	22.47	22.36	22.45	22.42	22.29	22.49	22.46	22.42
	16QAM	1	Left	21.54	21.55	21.31	21.65	21.57	21.39	21.52	21.46	21.36	21.71	21.64	21.59
	16QAM	1	Right	21.46	21.54	21.23	21.51	21.31	21.21	21.33	21.20	21.12	21.34	21.30	21.34
	16QAM	Innter_Full	Mid	21.53	21.57	21.32	21.61	21.49	21.41	21.47	21.34	21.21	21.55	21.51	21.47
	64QAM	1	Left	20.06	20.09	19.92	20.10	20.15	19.92	19.95	20.09	20.07	20.28	20.26	20.09
	64QAM	1	Right	20.14	20.01	19.90	20.01	20.07	19.73	19.73	19.95	19.76	20.08	19.97	20.04
	64QAM	Innter_Full	Mid	20.02	20.06	19.79	20.11	19.99	19.85	20.02	19.85	19.79	20.12	20.04	19.90
	256QAM	1	Left	18.17	18.03	17.77	18.11	17.85	17.85	17.98	17.81	17.72	18.09	18.04	18.02
	256QAM	1	Right	18.14	17.90	17.68	17.88	17.73	17.69	17.75	17.65	17.54	17.71	17.71	17.65
CP-OFDM	256QAM	Innter_Full	Mid	18.04	17.88	17.70	18.10	17.94	17.88	17.88	17.77	17.70	18.04	17.95	17.88
	QPSK	1	Left	21.09	20.89	20.82	20.93	21.02	20.66	20.82	20.99	20.94	21.22	20.99	21.15
	QPSK	1	Right	21.03	20.83	20.74	20.87	20.84	20.60	20.59	20.60	20.66	20.83	20.82	20.69
	QPSK	Innter_Full	Mid	21.11	21.00	20.68	21.14	20.98	20.85	20.91	20.81	20.75	21.07	20.99	20.99
	16QAM	1	Left	20.52	20.39	20.36	20.48	20.50	20.29	20.45	20.52	20.38	20.69	20.79	20.75
	16QAM	1	Right	20.61	20.36	20.42	20.41	20.44	20.23	20.27	20.37	20.20	20.50	20.56	20.54
	16QAM	Innter_Full	Mid	20.53	20.57	20.35	20.64	20.45	20.30	20.46	20.31	20.27	20.51	20.50	20.43
	64QAM	1	Left	19.37	19.25	18.75	19.28	19.10	19.01	19.20	19.00	18.92	19.09	19.30	19.05
	64QAM	1	Right	19.24	19.09	18.93	19.14	18.90	18.91	19.00	18.94	18.69	18.97	19.01	19.04
	64QAM	Innter_Full	Mid	19.01	18.93	18.64	19.02	18.89	18.82	18.96	18.86	18.73	19.03	19.05	18.93
	256QAM	1	Left	16.44	16.39	16.00	16.37	16.13	16.14	16.37	16.20	16.07	16.41	16.37	16.33
	256QAM	1	Right	16.35	16.18	15.88	16.19	16.12	16.13	16.20	15.95	15.91	16.18	16.08	16.04
	256QAM	Innter_Full	Mid	16.10	15.91	15.67	16.05	15.86	15.85	15.94	15.90	15.82	16.01	16.03	15.87

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UTTR-RF-FCC4G-V1.1

5.2.4 LTE Band 7 and 5G NR n7

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	21.83	22.03	22.56	20.77	21.14	21.42	20.41	21.29	21.64	17.79	17.89	18.52
		1RB#12	21.65	21.94	22.38	20.71	21.13	21.47	20.49	21.51	21.57	17.92	18.13	18.69
		1RB#24	21.74	22.00	22.49	20.73	21.05	21.44	19.63	19.79	20.44	17.79	18.03	18.39
		12RB#0	20.75	20.92	21.52	19.71	19.99	20.55	19.67	19.81	20.45	17.51	17.77	18.40
		12RB#6	20.77	21.01	21.57	19.80	20.03	20.59	19.66	19.91	20.49	17.57	17.90	18.44
		12RB#13	20.73	20.99	21.53	19.77	20.05	20.50	19.63	19.82	20.43	17.54	17.88	18.47
		25RB#0	20.74	20.99	21.53	19.70	19.99	20.56	19.63	19.79	20.50	17.59	17.88	18.46
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	21.72	22.03	22.44	20.81	20.91	21.25	20.14	20.61	21.46	17.47	17.52	17.73
		1RB#24	21.76	22.07	22.49	20.67	21.12	21.53	20.37	20.84	21.72	17.42	18.08	18.19
		1RB#49	21.72	22.09	22.32	20.76	21.04	21.23	19.52	19.91	20.39	17.49	17.69	17.95
		25RB#0	20.87	20.97	21.48	19.76	19.97	20.50	19.50	19.85	20.36	17.48	17.83	18.33
		25RB#12	20.74	21.06	21.52	19.82	20.08	20.55	19.52	19.94	20.40	17.55	17.97	18.49
		25RB#25	20.78	21.08	21.57	19.73	20.02	20.61	19.53	19.91	20.38	17.44	17.90	18.44
		50RB#0	20.70	20.96	21.45	19.67	19.97	20.46	19.52	19.85	20.37	17.56	17.90	18.31
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	21.63	21.73	22.21	20.70	20.92	21.12	20.24	20.72	21.25	17.19	17.47	17.74
		1RB#38	21.59	21.94	22.34	20.55	20.83	21.40	20.33	20.89	21.59	17.33	17.93	18.01
		1RB#74	21.56	21.72	22.21	20.71	21.14	21.15	19.41	19.77	20.19	17.43	17.81	17.90
		38RB#0	20.62	20.84	21.30	20.63	20.85	21.31	19.41	19.75	20.27	19.48	19.76	20.22
		38RB#18	20.68	20.84	21.41	19.70	19.87	20.35	19.50	19.72	20.31	17.53	17.74	18.25
		38RB#37	20.63	20.83	21.27	20.61	20.80	21.25	19.49	19.64	20.30	19.42	19.68	20.33
		75RB#0	20.67	20.82	21.25	19.60	19.88	20.33	19.46	19.65	20.34	17.43	17.74	18.23
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	21.63	21.87	22.58	20.62	21.01	21.01	20.86	20.84	20.80	17.05	17.66	17.82
		1RB#49	21.47	21.83	22.41	20.55	20.98	21.17	20.36	21.12	20.84	17.48	17.80	18.23
		1RB#99	21.62	21.94	22.36	20.59	21.06	21.13	19.37	19.77	20.12	17.30	17.81	18.02
		50RB#0	20.63	20.91	21.19	19.62	19.87	20.25	19.38	19.80	20.11	17.33	17.72	18.05
		50RB#25	20.66	20.95	21.34	19.64	19.97	20.37	19.47	19.83	20.34	17.48	17.82	18.31
		50RB#50	20.65	20.94	21.32	19.65	19.96	20.42	19.38	19.77	20.11	17.42	18.23	18.19
		100RB#0	20.62	20.88	21.21	19.60	19.83	20.18	19.37	19.79	20.09	17.44	18.02	18.14

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	21.60	21.70	22.19	21.59	21.66	22.24	21.45	21.47	21.84	21.69	21.73	22.14
	$\pi/2$ BPSK	1	Right	21.69	21.89	22.35	21.52	21.91	22.26	21.35	21.62	22.09	21.73	22.07	22.44
	$\pi/2$ BPSK	Innter_Full	Mid	21.65	21.82	22.29	21.62	21.76	22.27	21.48	21.70	22.19	21.77	21.92	22.41
	QPSK	1	Left	21.57	21.63	22.19	21.48	21.61	22.14	21.34	21.47	21.93	21.65	21.75	21.97
	QPSK	1	Right	21.65	21.80	22.24	21.43	21.89	22.32	21.39	21.55	22.01	21.72	22.14	22.41
	QPSK	Innter_Full	Mid	21.69	21.96	22.38	21.66	21.98	22.32	21.52	21.74	22.20	21.75	22.02	22.46
	16QAM	1	Left	20.84	20.71	21.44	20.61	20.77	21.25	20.46	20.67	21.12	20.84	20.93	21.03
	16QAM	1	Right	20.58	20.95	21.49	20.50	20.86	21.25	20.28	20.88	21.28	20.67	21.23	21.62
	16QAM	Innter_Full	Mid	20.72	21.00	21.45	20.74	20.97	21.48	20.54	20.83	21.20	20.83	21.06	21.48
	64QAM	1	Left	19.19	19.34	19.89	19.18	19.24	19.78	19.05	19.00	19.39	19.19	19.24	19.60
	64QAM	1	Right	19.21	19.40	19.88	19.03	19.44	19.85	18.84	19.08	19.68	19.20	19.55	19.92
	64QAM	Innter_Full	Mid	19.24	19.45	19.91	19.19	19.41	19.88	19.10	19.26	19.70	19.34	19.63	20.09
	256QAM	1	Left	17.12	17.28	17.80	17.18	17.26	17.79	16.94	17.01	17.47	17.22	17.34	17.65
	256QAM	1	Right	17.20	17.41	17.85	17.09	17.46	17.84	16.95	17.24	17.62	17.28	17.73	18.01
	256QAM	Innter_Full	Mid	17.18	17.46	17.79	17.12	17.29	17.84	17.06	17.24	17.73	17.22	17.48	18.00
CP-OFDM	QPSK	1	Left	19.95	20.13	20.63	19.92	20.09	20.67	19.78	19.88	20.31	20.06	20.13	20.42
	QPSK	1	Right	20.10	20.29	20.74	20.09	20.52	20.89	19.75	20.06	20.43	20.26	20.64	20.75
	QPSK	Innter_Full	Mid	20.27	20.40	21.04	20.22	20.43	20.87	20.05	20.21	20.64	20.24	20.47	21.12
	16QAM	1	Left	19.39	19.59	20.16	19.51	19.72	20.30	19.38	19.41	19.83	19.55	19.69	19.97
	16QAM	1	Right	19.43	20.07	20.14	19.50	19.84	20.25	19.15	19.48	19.91	19.67	19.88	20.31
	16QAM	Innter_Full	Mid	19.81	19.99	20.42	19.65	19.86	20.38	19.56	19.74	20.15	19.70	19.93	20.44
	64QAM	1	Left	18.33	18.48	19.05	18.35	18.44	19.01	18.21	18.22	18.71	18.36	18.51	18.88
	64QAM	1	Right	18.37	18.64	19.09	18.36	18.75	19.05	18.11	18.40	18.83	18.56	18.92	19.09
	64QAM	Innter_Full	Mid	18.06	18.35	18.78	18.16	18.37	18.79	18.08	18.21	18.70	18.24	18.46	19.11
	256QAM	1	Left	15.32	15.55	16.08	15.43	15.58	16.20	15.35	15.40	15.75	15.55	15.67	16.01
	256QAM	1	Right	15.43	15.73	16.16	15.32	15.78	16.12	15.25	15.58	16.03	15.77	16.01	16.47
	256QAM	Innter_Full	Mid	15.20	15.34	15.86	15.16	15.40	15.81	15.12	15.32	15.77	15.29	15.53	16.09

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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	22.66	22.67	22.79	21.53	21.76	21.66	21.59	21.00	21.41	18.21	18.26	17.97
		1RB#2	22.59	22.59	22.80	21.59	21.88	21.94	20.14	21.26	21.66	18.17	18.49	18.26
		1RB#5	22.56	22.60	22.67	21.46	21.63	21.63	20.18	20.17	20.17	18.03	18.19	18.11
		3RB#0	22.66	22.64	22.71	21.51	21.48	21.60	20.18	20.20	20.15	18.07	17.92	18.07
		3RB#1	22.74	22.71	22.73	21.60	21.72	21.66	21.19	20.88	21.29	18.15	17.95	18.12
		3RB#3	22.56	22.58	22.65	21.45	21.57	21.67	20.06	20.19	20.08	18.05	18.01	18.04
		6RB#0	21.67	21.80	21.75	20.63	20.72	20.61	20.05	20.15	20.04	18.10	18.24	18.20
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	22.66	22.82	22.84	21.79	21.70	21.61	21.11	20.97	21.41	18.33	18.26	18.08
		1RB#8	22.73	22.81	22.91	21.72	22.00	21.81	20.23	21.30	21.64	18.21	18.55	18.08
		1RB#14	22.58	22.75	22.76	21.73	21.62	21.61	20.22	20.24	20.24	18.26	18.26	17.98
		8RB#0	21.80	21.75	21.89	20.78	20.74	20.93	20.19	20.26	20.23	18.30	18.10	18.33
		8RB#4	21.80	21.86	21.88	20.81	20.79	20.73	20.25	20.24	20.29	18.21	18.26	18.35
		8RB#7	21.73	21.78	21.81	20.74	20.79	20.88	20.20	20.24	20.19	18.15	18.14	18.32
		15RB#0	21.79	21.77	21.82	20.75	20.67	20.64	20.23	20.24	20.20	18.29	18.24	18.21
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	22.76	22.75	22.82	21.71	21.97	21.86	20.85	21.61	21.44	18.43	18.29	18.28
		1RB#12	22.61	22.73	22.67	21.62	21.74	21.82	20.36	21.86	21.36	18.49	18.55	18.49
		1RB#24	22.67	22.80	22.79	21.76	22.00	21.68	20.21	20.16	20.26	18.35	18.45	18.37
		12RB#0	21.72	21.79	21.79	20.73	20.83	20.83	20.23	20.11	20.21	18.23	18.23	18.23
		12RB#6	21.78	21.80	21.83	20.83	20.80	20.79	20.39	20.31	20.29	18.27	18.25	18.28
		12RB#13	21.75	21.83	21.83	20.74	20.84	20.84	20.20	20.11	20.21	18.22	18.26	18.29
		25RB#0	21.79	21.78	21.80	20.77	20.75	20.86	20.19	20.11	20.30	18.23	18.20	18.22
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	22.67	22.72	22.74	21.84	21.64	21.59	21.03	21.05	21.08	18.39	18.12	18.18
		1RB#24	22.69	22.76	22.70	21.68	21.85	21.78	20.32	21.25	21.20	18.17	18.19	18.38
		1RB#49	22.72	22.92	22.71	21.90	21.65	21.52	20.28	20.23	20.30	18.57	18.56	18.32
		25RB#0	21.80	21.83	21.82	20.78	20.82	20.86	20.33	20.26	20.33	18.28	18.31	18.31
		25RB#12	21.82	21.74	21.80	20.89	20.84	20.84	20.34	20.30	20.37	18.33	18.25	18.35
		25RB#25	21.81	21.81	21.83	20.79	20.89	20.91	20.30	20.25	20.32	18.29	18.36	18.38
		50RB#0	21.82	21.76	21.82	20.84	20.77	20.83	20.31	20.29	20.31	18.33	18.30	18.31

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		
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	22.69	22.45	22.51	22.62	22.64	22.49	22.74	22.74	22.70	N/A	
		1	Right	22.67	22.55	22.54	22.61	22.47	22.38	22.60	22.50	22.55		
		Innter_Full	Mid	22.74	22.72	22.52	22.61	22.58	22.57	22.77	22.68	22.69		
		1	Left	22.60	22.59	22.61	22.67	22.60	22.54	22.78	22.76	22.77		
		1	Right	22.56	22.66	22.52	22.52	22.52	22.43	22.56	22.54	22.46		
		Innter_Full	Mid	22.78	22.66	22.53	22.61	22.64	22.59	22.73	22.71	22.71		
		1	Left	21.74	21.61	21.60	21.71	21.68	21.65	21.87	21.82	21.88		
		1	Right	21.67	21.59	21.51	21.62	21.51	21.51	21.57	21.51	21.50		
		Innter_Full	Mid	21.75	21.76	21.60	21.65	21.68	21.55	21.73	21.73	21.73		
		1	Left	20.22	20.23	20.21	20.20	20.40	20.28	20.32	20.46	20.51		
		1	Right	20.38	20.36	20.25	20.05	20.21	20.14	20.04	20.23	20.26		
		Innter_Full	Mid	20.23	20.21	20.13	20.19	20.13	20.10	20.23	20.20	20.25		
		1	Left	18.13	17.99	17.95	18.13	18.01	17.91	18.27	18.27	18.16		
		1	Right	18.09	18.00	17.88	18.09	17.98	17.92	18.08	18.00	17.98		
		Innter_Full	Mid	18.14	18.09	17.97	18.14	18.20	18.06	18.16	18.13	18.21		
CP-OFDM	QPSK	1	Left	21.22	20.91	21.10	21.02	21.15	21.10	21.24	21.31	21.22		
		1	Right	21.15	21.17	21.01	21.03	20.94	21.14	20.98	21.15	20.97		
		Innter_Full	Mid	21.23	21.16	21.09	21.15	21.21	21.06	21.32	21.17	21.25		
		1	Left	20.82	20.68	20.69	20.72	20.93	20.55	20.79	20.82	21.03		
		1	Right	20.59	20.67	20.57	20.62	20.85	20.42	20.61	20.54	20.81		
		Innter_Full	Mid	20.81	20.75	20.69	20.65	20.67	20.58	20.77	20.73	20.75		
		1	Left	18.98	19.32	19.28	19.39	19.29	19.16	19.53	19.14	19.38		
		1	Right	19.23	19.25	19.08	19.33	19.17	19.18	19.28	18.85	19.16		
		Innter_Full	Mid	19.08	19.09	19.01	19.11	19.15	18.98	19.22	19.17	19.20		
		1	Left	16.31	16.31	16.22	16.36	16.31	16.24	16.65	16.68	16.50		
		1	Right	16.49	16.28	16.18	16.53	16.39	16.25	16.47	16.53	16.33		
		Innter_Full	Mid	16.14	16.13	16.03	16.10	16.15	16.05	16.32	16.26	16.24		

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5.2.6 LTE Band 13 and 5G NR n13

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	23.00	22.99	22.99	21.96	21.97	22.06	21.69	21.42	21.15	18.67	18.78	18.77
		1RB#12	22.83	22.82	22.92	21.99	21.79	21.93	21.60	21.55	21.51	18.69	18.73	18.58
		1RB#24	22.95	22.96	22.87	21.95	22.00	21.91	20.55	21.60	20.50	18.60	18.52	18.72
		12RB#0	22.01	21.99	21.91	21.10	21.00	21.04	20.60	20.43	20.50	18.55	18.46	18.46
		12RB#6	22.06	22.01	22.01	21.00	21.01	21.05	20.59	20.48	20.42	18.60	18.48	18.49
		12RB#13	21.97	22.01	21.94	21.05	20.97	21.01	20.67	20.48	20.48	18.50	18.48	18.45
		25RB#0	22.07	21.94	21.90	21.11	20.99	20.89	20.58	20.54	20.50	18.59	18.51	18.54
Band	Bandwidth	RB	23230			23230			23230			23230		
	(MHz)		782 MHz			782 MHz			782 MHz			782 MHz		
13	10	1RB#0	23.03			22.18			21.23			18.81		
		1RB#24	22.90			21.96			21.25			18.34		
		1RB#49	22.89			22.02			20.61			18.66		
		25RB#0	22.03			21.10			20.62			18.61		
		25RB#12	22.09			21.01			20.55			18.53		
		25RB#25	22.06			20.96			20.60			18.51		
		50RB#0	22.09			21.12			20.65			18.68		

5G NR n13		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz		15MHz BW SCS = 15kHz		20MHz BW SCS = 15kHz	
Channel				1559 00	1564 00	1569 00	N/A	1564 00	N/A	N/A	N/A	
Frequency (MHz)				779.5	782	784.5		782				
DFT-s-OFDM	π/2 BPSK	1	Left	23.14	23.06	23.01		23.07				
	π/2 BPSK	1	Right	23.05	23.06	22.92		22.86				
	π/2 BPSK	Innter_Full	Mid	23.15	23.08	23.02		22.99				
	QPSK	1	Left	23.15	23.11	22.94		23.23				
	QPSK	1	Right	23.05	23.02	22.93		22.98				
	QPSK	Innter_Full	Mid	23.22	23.13	23.09		23.01				
	16QAM	1	Left	22.32	22.11	22.07		22.10				
	16QAM	1	Right	22.12	22.01	22.01		21.85				
	16QAM	Innter_Full	Mid	22.21	22.21	22.17		22.03				
	64QAM	1	Left	21.03	20.85	20.64		20.81				
	64QAM	1	Right	20.87	20.82	20.59		20.60				
	64QAM	Innter_Full	Mid	20.72	20.63	20.67		20.52				
	256QAM	1	Left	18.62	18.58	18.61		18.61				
	256QAM	1	Right	18.61	18.57	18.49		18.40				
	256QAM	Innter_Full	Mid	18.60	18.55	18.48		18.40				
CP-OFDM	QPSK	1	Left	21.88	21.58	21.48		21.69				
	QPSK	1	Right	21.67	21.59	21.37		21.43				
	QPSK	Innter_Full	Mid	21.64	21.59	21.57		21.37				
	16QAM	1	Left	21.27	21.04	21.05		21.10				
	16QAM	1	Right	20.95	21.13	20.98		20.96				
	16QAM	Innter_Full	Mid	21.27	21.19	21.14		20.99				
	64QAM	1	Left	19.88	19.61	19.80		19.66				
	64QAM	1	Right	19.78	19.48	19.76		19.63				
	64QAM	Innter_Full	Mid	19.58	19.47	19.54		19.44				
	256QAM	1	Left	16.83	16.92	16.88		16.79				
	256QAM	1	Right	16.98	16.91	16.84		16.79				
	256QAM	Innter_Full	Mid	16.61	16.55	16.47		16.38				

5.2.7 LTE Band 14 and 5G NR n14

Conducted Power(dBm)														
Modulation			QPSK			16QAM			64QAM			256QAM		
Band	Bandwidth	RB	23305	23330	23355	23305	23330	23355	23305	23330	23355	23305	23330	23355
	(MHz)		790.5 MHz	793 MHz	795.5 MHz	790.5 MHz	793 MHz	795.5 MHz	790.5 MHz	793 MHz	795.5 MHz	790.5 MHz	793 MHz	795.5 MHz
14	5	1RB#0	23.06	23.04	23.10	22.06	22.15	22.03	21.39	21.93	21.63	18.68	18.58	18.51
		1RB#12	22.86	22.97	22.80	21.88	22.07	21.99	21.43	22.10	21.57	18.81	18.87	18.72
		1RB#24	23.01	22.97	22.96	22.02	22.15	21.95	20.62	20.30	20.51	18.78	18.65	18.51
		12RB#0	22.12	22.05	21.96	21.07	21.10	21.07	20.62	20.38	20.45	18.63	18.48	18.45
		12RB#6	22.14	22.08	22.02	21.10	21.12	21.01	20.68	20.59	20.51	18.59	18.52	18.49
		12RB#13	22.00	22.04	21.98	20.96	21.10	21.05	20.68	20.45	20.50	18.54	18.49	18.47
		25RB#0	22.09	21.97	21.98	21.07	20.99	21.04	20.65	20.38	20.41	18.54	18.39	18.47
Band	Bandwidth (MHz)	RB	23330			23330			23330			23330		
			793			793			793			793		
14	10	1RB#0		23.12			22.14			21.22			18.61	
		1RB#24		23.03			22.03			21.40			18.38	
		1RB#49		22.94			22.04			20.48			18.69	
		25RB#0		22.05			21.08			20.49			18.52	
		25RB#12		22.08			21.10			20.49			18.47	
		25RB#25		22.05			21.05			20.49			18.57	
		50RB#0		22.11			21.03			20.53			18.53	

5G NR n14		RB Size	RB Offset	5MHz BW SCS = 15kHz			10MHz BW SCS = 15kHz		15MHz BW SCS = 15kHz		20MHz BW SCS = 15kHz	
Channel				1581 00	1586 00	1591 00		1586 00				
Frequency (MHz)				790.5	793	795.5		793				
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	23.32	23.16	23.14	N/A	23.02	N/A	N/A	N/A	N/A
	$\pi/2$ BPSK	1	Right	23.15	23.08	23.01		22.92				
	$\pi/2$ BPSK	Innter_Full	Mid	23.27	23.23	23.21		23.04				
	QPSK	1	Left	23.33	23.35	23.17		23.37				
	QPSK	1	Right	23.14	23.20	23.13		22.89				
	QPSK	Innter_Full	Mid	23.21	23.28	23.26		23.05				
	16QAM	1	Left	22.47	22.37	22.22		22.14				
	16QAM	1	Right	22.23	22.21	22.15		21.97				
	16QAM	Innter_Full	Mid	22.41	22.36	22.24		22.13				
	64QAM	1	Left	20.98	21.03	20.77		20.76				
	64QAM	1	Right	20.85	20.86	20.64		20.60				
	64QAM	Innter_Full	Mid	20.87	20.80	20.75		20.58				
	256QAM	1	Left	18.74	18.67	18.67		18.52				
	256QAM	1	Right	18.66	18.62	18.57		18.38				
	256QAM	Innter_Full	Mid	18.77	18.71	18.66		18.45				
CP-OFDM	QPSK	1	Left	21.86	21.87	21.61	N/A	21.65	N/A	N/A	N/A	N/A
	QPSK	1	Right	21.69	21.72	21.54		21.38				
	QPSK	Innter_Full	Mid	21.77	21.75	21.81		21.60				
	16QAM	1	Left	21.44	21.44	21.13		21.08				
	16QAM	1	Right	21.34	21.11	21.13		20.92				
	16QAM	Innter_Full	Mid	21.29	21.33	21.23		21.04				
	64QAM	1	Left	20.08	19.92	19.89		19.58				
	64QAM	1	Right	19.59	19.85	19.78		19.42				
	64QAM	Innter_Full	Mid	19.82	19.68	19.73		19.59				
	256QAM	1	Left	16.92	16.89	16.94		16.83				
	256QAM	1	Right	16.92	16.89	16.86		16.68				
	256QAM	Innter_Full	Mid	16.74	16.72	16.73		16.55				

5.2.8 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	22.88	22.81	22.83	21.81	21.95	21.91	21.02	21.75	21.44	18.56	18.52	18.45
		1RB#12	22.61	22.78	22.67	21.68	21.83	21.76	21.14	21.84	21.42	18.37	18.57	18.30
		1RB#24	22.74	22.81	22.81	21.69	21.90	21.70	20.37	21.64	20.27	18.50	18.45	18.37
		12RB#0	21.79	21.85	21.84	20.79	20.92	20.90	20.37	20.15	20.31	18.29	18.31	18.43
		12RB#6	21.85	21.80	21.92	20.80	20.87	20.87	20.43	20.32	20.40	18.32	18.29	18.42
		12RB#13	21.72	21.80	21.75	20.74	20.81	20.80	20.36	20.16	20.30	18.22	18.31	18.33
		25RB#0	21.79	21.79	21.81	20.82	20.77	20.87	20.34	20.22	20.22	18.30	18.32	18.32
17	10	23780	23790	23800	23780	23790	23800	23780	23790	23800	23780	23790	23800	23780
		709 MHz	710 MHz	711 MHz	709 MHz	710 MHz	711 MHz	709 MHz	710 MHz	711 MHz	709 MHz	710 MHz	711 MHz	709 MHz
		1RB#0	22.69	22.72	22.94	21.84	21.72	21.48	20.82	21.39	21.47	18.34	17.97	17.93
		1RB#24	22.67	22.75	22.71	21.70	21.86	21.83	21.07	21.51	21.59	18.08	18.08	18.13
		1RB#49	22.73	22.79	22.74	21.88	21.69	21.57	20.38	20.28	20.33	18.59	18.07	18.12
		25RB#0	21.79	21.79	21.76	20.78	20.81	20.86	20.34	20.29	20.31	18.37	18.42	18.42
		25RB#12	21.84	21.78	21.85	20.92	20.79	20.86	20.41	20.29	20.28	18.46	18.44	18.39
17	10	25RB#25	21.83	21.80	21.82	20.74	20.87	20.84	20.41	20.25	20.31	18.23	18.33	18.39
		50RB#0	21.86	21.79	21.79	20.83	20.78	20.76	20.36	20.28	20.28	18.38	18.31	18.31

5.2.9 LTE Band 25 and 5G NR n25

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	23.03	22.85	23.08	21.83	21.75	22.10	21.07	21.09	20.82	17.90	17.84	18.01
		1RB#2	23.07	22.87	23.16	22.12	21.91	22.32	19.77	20.89	21.07	17.77	17.78	18.24
		1RB#5	23.05	22.93	23.07	21.87	21.76	22.02	19.85	19.71	19.95	17.74	17.72	18.05
		3RB#0	22.98	22.95	23.15	21.98	21.80	21.92	19.75	19.68	19.93	17.63	17.68	17.83
		3RB#1	22.95	22.94	23.23	21.95	22.03	22.20	21.01	20.85	20.82	17.81	17.59	17.67
		3RB#3	23.01	22.94	23.07	21.91	21.77	22.00	19.66	19.65	19.91	17.64	17.72	17.80
		6RB#0	21.98	21.90	22.23	20.87	20.98	21.16	19.76	19.76	19.95	17.75	17.78	18.03
Band	Bandwidth	RB	26055	26365	26675	26055	26365	26675	26055	26365	26675	26055	26365	26675
	(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	1851.5 MHz	1882.5 MHz	1913.5 MHz
25	3	1RB#0	23.08	23.15	23.29	22.27	22.01	21.99	20.73	20.68	20.89	17.98	17.91	18.17
		1RB#8	23.14	23.07	23.25	22.10	22.21	22.28	19.88	20.90	21.16	17.87	18.12	18.42
		1RB#14	23.06	23.08	23.28	22.09	21.85	22.05	19.87	19.91	20.09	17.94	17.89	18.10
		8RB#0	22.10	22.04	22.34	21.07	21.04	21.31	19.89	19.90	20.09	17.79	17.78	17.96
		8RB#4	22.17	22.05	22.31	21.09	21.03	21.19	19.95	19.82	20.03	17.76	17.80	18.03
		8RB#7	22.11	22.08	22.26	21.12	21.06	21.35	19.87	19.88	20.12	17.93	17.80	17.97
		15RB#0	22.12	22.07	22.30	21.17	20.95	21.23	19.87	19.87	20.12	17.92	17.89	18.08
Band	Bandwidth	RB	26065	26365	26665	26065	26365	26665	26065	26365	26665	26065	26365	26665
	(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	1852.5 MHz	1882.5 MHz	1912.5 MHz
25	5	1RB#0	23.15	23.13	23.40	22.11	22.10	22.25	20.83	21.39	21.25	18.21	18.04	18.19
		1RB#12	22.96	22.94	23.11	21.88	22.02	22.26	20.04	21.45	21.01	18.18	18.12	18.34
		1RB#24	23.15	23.09	23.31	22.05	22.21	22.29	20.00	19.86	20.20	18.22	18.07	18.39
		12RB#0	22.16	22.13	22.29	21.07	21.13	21.35	20.04	19.85	20.17	17.92	17.89	18.11
		12RB#6	22.15	22.08	22.32	21.15	21.12	21.28	20.01	19.99	20.15	17.92	17.85	18.07
		12RB#13	22.12	22.10	22.33	21.10	21.16	21.30	20.01	19.85	20.19	17.94	17.88	18.05
		25RB#0	22.11	22.10	22.29	21.10	21.03	21.33	20.03	19.82	20.17	17.90	17.88	18.07
Band	Bandwidth	RB	26090	26365	26640	26090	26365	26640	26090	26365	26640	26090	26365	26640
	(MHz)		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
25	10	1RB#0	23.03	23.06	23.16	22.13	21.96	22.05	20.70	20.70	20.77	18.02	17.89	17.92
		1RB#24	23.07	23.00	23.24	21.99	22.11	22.29	19.89	20.81	21.01	17.76	18.03	18.24
		1RB#49	22.98	23.02	23.22	22.05	21.89	22.11	19.89	19.96	20.06	17.93	17.80	18.03
		25RB#0	22.16	22.13	22.26	21.13	21.16	21.28	19.87	19.95	20.05	18.01	17.95	18.07
		25RB#12	22.08	22.13	22.28	21.11	21.16	21.32	19.90	19.95	20.05	17.89	17.95	18.01
		25RB#25	22.11	22.17	22.35	21.06	21.18	21.36	19.89	19.94	20.08	17.81	17.95	18.10
		50RB#0	22.10	22.15	22.25	21.08	21.17	21.24	19.88	19.96	20.07	17.94	17.99	18.07
Band	Bandwidth	RB	26115	26365	26615	26115	26365	26615	26115	26365	26615	26115	26365	26615
	(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	1857.5 MHz	1882.5 MHz	1907.5 MHz
25	15	1RB#0	22.94	22.80	23.00	22.02	22.07	21.89	20.67	20.88	20.97	17.89	17.88	17.63
		1RB#38	22.90	22.89	23.03	21.85	21.88	22.05	19.83	20.81	21.09	17.62	17.94	17.52
		1RB#74	22.86	22.71	22.99	21.96	22.01	21.89	19.85	19.85	19.94	17.71	17.76	17.70
		38RB#0	22.00	21.96	22.09	22.04	21.98	22.16	19.84	19.83	19.95	19.85	19.83	19.89
		38RB#18	22.01	21.95	22.10	21.01	20.99	21.11	19.89	19.81	19.92	17.83	17.79	17.96
		38RB#37	22.01	21.98	22.14	21.97	21.99	22.14	19.83	19.76	19.88	19.90	19.76	19.93
		75RB#0	22.02	21.94	22.10	21.05	20.99	21.10	19.89	19.76	19.93	17.83	17.80	17.91
Band	Bandwidth	RB	26140	26365	26590	26140	26365	26590	26140	26365	26590	26140	26365	26590
	(MHz)		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
25	20	1RB#0	22.93	22.96	23.45	21.91	22.09	21.88	20.89	21.07	20.60	17.92	18.12	17.90
		1RB#49	22.79	22.78	23.27	21.90	21.99	22.01	19.74	21.01	20.42	17.85	18.00	17.88
		1RB#99	22.91	22.92	23.31	21.83	22.10	21.87	19.78	19.86	20.03	17.79	18.13	18.02
		50RB#0	22.03	21.96	22.06	21.01	21.00	21.14	19.73	19.86	19.96	17.83	17.87	17.90
		50RB#25	21.96	22.01	22.20	20.92	21.08	21.22	19.79	19.81	20.00	17.80	17.82	17.98
		50RB#50	21.90	21.97	22.14	20.87	20.99	21.22	19.77	19.84	20.03	17.75	17.88	17.95
		100RB#0	21.94	21.96	22.19	20.92	21.01	21.22	19.78	19.91	19.99	17.77	17.82	17.99

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	22.31	22.14	22.28	22.14	22.03	22.22	22.24	22.20	22.09	22.36	22.25	22.33
	$\pi/2$ BPSK	1	Right	22.22	22.15	22.24	22.16	22.08	22.23	22.23	22.07	22.22	22.27	22.29	22.38
	$\pi/2$ BPSK	Innter_Full	Mid	22.18	22.19	22.31	22.23	22.14	22.35	22.25	22.20	22.33	22.35	22.38	22.35
	QPSK	1	Left	22.20	22.11	22.26	22.19	22.12	22.19	22.30	22.20	22.16	22.30	22.19	22.31
	QPSK	1	Right	22.19	22.14	22.25	22.13	22.05	22.23	22.23	22.17	22.14	22.32	22.25	22.36
	QPSK	Innter_Full	Mid	22.19	22.15	22.39	22.23	22.19	22.39	22.37	22.27	22.31	22.40	22.35	22.47
	16QAM	1	Left	21.26	21.10	21.26	21.15	21.12	21.29	21.29	21.22	21.20	21.24	21.24	21.33
	16QAM	1	Right	21.17	21.08	21.28	21.08	21.07	21.32	21.22	21.08	21.16	21.26	21.25	21.39
	16QAM	Innter_Full	Mid	21.32	21.20	21.47	21.20	21.19	21.39	21.33	21.25	21.31	21.36	21.34	21.47
	64QAM	1	Left	20.03	19.65	20.05	19.90	19.66	19.90	19.85	20.05	19.85	19.98	19.71	19.79
	64QAM	1	Right	19.92	19.69	20.00	19.83	19.55	20.00	19.74	19.93	19.95	19.97	19.77	20.01
	64QAM	Innter_Full	Mid	19.84	19.71	19.90	19.75	19.70	19.84	19.78	19.80	19.81	19.93	19.92	20.03
	256QAM	1	Left	17.78	17.73	17.80	17.60	17.59	17.74	17.79	17.64	17.67	17.83	17.80	17.91
	256QAM	1	Right	17.68	17.71	17.82	17.58	17.52	17.76	17.72	17.63	17.71	17.80	17.78	17.97
CP-OFDM	256QAM	Innter_Full	Mid	17.76	17.68	17.84	17.71	17.67	17.88	17.70	17.70	17.75	17.88	17.79	18.04
	QPSK	1	Left	20.73	20.56	20.85	20.76	20.44	20.71	20.68	20.76	20.71	20.93	20.64	20.60
	QPSK	1	Right	20.55	20.58	20.78	20.68	20.55	20.75	20.53	20.68	20.67	20.82	20.63	20.93
	QPSK	Innter_Full	Mid	20.70	20.69	20.80	20.56	20.65	20.67	20.84	20.71	20.71	20.89	20.80	20.98
	16QAM	1	Left	20.22	20.08	20.39	20.27	20.03	20.26	20.24	20.20	20.19	20.35	20.26	20.25
	16QAM	1	Right	20.32	20.33	20.38	20.21	20.13	20.41	20.14	20.17	20.14	20.42	20.22	20.40
	16QAM	Innter_Full	Mid	20.27	20.17	20.41	20.20	20.18	20.24	20.28	20.26	20.31	20.38	20.31	20.44
	64QAM	1	Left	18.85	18.82	18.93	18.77	18.76	18.93	18.92	18.51	18.68	18.83	18.88	18.93
	64QAM	1	Right	18.88	18.83	18.78	18.81	18.84	19.03	18.82	18.49	18.63	19.00	18.90	19.19
	64QAM	Innter_Full	Mid	18.71	18.66	18.75	18.65	18.54	18.81	18.79	18.73	18.82	18.92	18.80	18.91
	256QAM	1	Left	15.91	15.97	15.95	15.90	15.85	15.90	16.07	15.96	16.04	16.10	16.15	16.21
	256QAM	1	Right	15.96	15.88	16.04	15.92	15.98	16.06	16.02	16.00	16.10	16.10	16.28	16.36
	256QAM	Innter_Full	Mid	15.69	15.61	15.77	15.65	15.60	15.87	15.79	15.80	15.79	15.82	15.80	15.95

5.2.10 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	23.17	23.21	23.28	22.19	22.20	22.26	20.92	20.95	21.63	18.16	18.14	18.35
		1RB#2	23.32	23.20	23.30	22.38	22.38	22.49	21.16	21.18	21.34	18.44	18.44	17.96
		1RB#5	23.18	23.14	23.27	22.21	22.23	22.26	20.14	20.20	20.08	18.20	18.25	17.95
		3RB#0	23.18	23.18	23.32	22.14	22.19	22.20	20.24	20.16	20.07	18.03	17.94	18.14
		3RB#1	23.34	23.26	23.35	22.27	22.29	22.32	20.94	22.24	21.28	18.04	18.20	18.12
		3RB#3	23.15	23.17	23.27	22.17	22.19	22.23	20.15	20.18	20.12	17.94	18.15	18.08
		6RB#0	22.41	22.33	22.43	21.30	21.25	21.37	20.17	20.17	20.12	18.18	18.19	18.24
26	3	1RB#0	23.32	23.28	23.32	22.17	22.34	22.52	21.32	21.02	21.13	17.88	18.23	18.36
		1RB#8	23.37	23.36	23.37	22.40	22.61	22.47	21.58	21.37	21.26	18.02	18.61	18.41
		1RB#14	23.35	23.27	23.34	22.10	22.21	22.38	20.16	20.28	20.30	17.98	18.25	18.37
		8RB#0	22.41	22.41	22.49	21.48	21.36	21.48	20.18	20.31	20.31	18.29	18.18	18.31
		8RB#4	22.44	22.42	22.49	21.33	21.36	21.47	20.19	20.25	20.38	18.29	18.28	18.27
		8RB#7	22.45	22.35	22.48	21.42	21.38	21.46	20.16	20.33	20.33	18.26	18.20	18.32
		15RB#0	22.38	22.37	22.45	21.36	21.37	21.55	20.14	20.30	20.34	18.20	18.24	18.38
26	5	1RB#0	23.35	23.32	23.39	22.35	22.55	22.34	21.38	21.73	20.92	18.15	18.35	18.48
		1RB#12	23.28	23.14	23.34	22.32	22.52	22.29	21.26	21.77	21.29	18.50	18.54	18.46
		1RB#24	23.36	23.22	23.33	22.30	22.54	22.29	20.25	20.16	20.40	18.28	18.30	18.58
		12RB#0	22.29	22.31	22.43	21.26	21.42	21.43	20.24	20.19	20.41	18.15	18.26	18.33
		12RB#6	22.45	22.37	22.49	21.38	21.48	21.48	20.39	20.34	20.46	18.26	18.29	18.36
		12RB#13	22.36	22.32	22.45	21.39	21.42	21.39	20.33	20.21	20.41	18.26	18.22	18.31
		25RB#0	22.34	22.33	22.46	21.37	21.40	21.42	20.33	20.21	20.40	18.28	18.22	18.28
26	10	1RB#0		23.25			22.50			21.16			18.10	23.25
		1RB#24		23.22			22.31			21.09			18.14	23.22
		1RB#49		23.25			22.44			20.27			18.19	23.25
		25RB#0		22.19			21.29			20.24			18.21	22.19
		25RB#12		22.33			21.43			20.34			18.31	22.33
		25RB#25		22.25			21.31			20.26			18.24	22.25
		50RB#0		22.30			21.35			20.25			18.24	22.30

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		1638 00		
Frequency (MHz)				816.5	819	821.5		819		
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	22.80	22.75	22.72	N/A	22.67	N/A	N/A
	$\pi/2$ BPSK	1	Right	22.81	22.83	22.81		22.59		
	$\pi/2$ BPSK	Innter_Full	Mid	22.89	22.89	22.85		22.68		
	QPSK	1	Left	22.84	22.75	22.78		22.78		
	QPSK	1	Right	22.76	22.90	22.77		22.57		
	QPSK	Innter_Full	Mid	22.94	22.94	22.81		22.68		
	16QAM	1	Left	21.80	21.80	21.88		21.64		
	16QAM	1	Right	21.85	21.99	21.78		21.57		
	16QAM	Innter_Full	Mid	21.93	22.01	21.97		21.70		
	64QAM	1	Left	20.60	20.59	20.38		20.34		
	64QAM	1	Right	20.55	20.65	20.44		20.25		
	64QAM	Innter_Full	Mid	20.40	20.42	20.51		20.16		
	256QAM	1	Left	18.33	18.29	18.32		18.26		
	256QAM	1	Right	18.28	18.31	18.42		18.18		
	256QAM	Innter_Full	Mid	18.27	18.36	18.34		18.18		
CP-OFDM	QPSK	1	Left	21.36	21.36	21.19	N/A	21.40	N/A	N/A
	QPSK	1	Right	21.14	21.37	21.33		21.32		
	QPSK	Innter_Full	Mid	21.37	21.41	21.44		21.43		
	16QAM	1	Left	20.99	20.91	20.69		21.17		
	16QAM	1	Right	21.00	21.00	20.85		21.09		
	16QAM	Innter_Full	Mid	20.95	21.09	20.92		20.95		
	64QAM	1	Left	19.44	19.36	19.41		19.51		
	64QAM	1	Right	19.20	19.50	19.50		19.41		
	64QAM	Innter_Full	Mid	19.37	19.41	19.43		19.38		
	256QAM	1	Left	16.56	16.55	16.69		16.70		
	256QAM	1	Right	16.54	16.57	16.60		16.49		
	256QAM	Innter_Full	Mid	16.29	16.42	16.42		16.49		

5.2.11 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	22.92	23.15	23.32	21.77	21.98	22.23	20.59	21.22	21.44	17.91	17.91	18.09
		1RB#2	22.95	23.18	23.37	21.98	22.36	22.38	20.82	21.24	21.33	18.08	18.11	18.16
		1RB#5	22.92	23.18	23.34	21.75	22.01	22.16	19.79	19.91	20.07	17.96	18.07	18.20
		3RB#0	23.00	23.05	23.30	21.81	22.05	22.14	19.84	19.88	20.14	17.66	17.81	18.08
		3RB#1	23.02	23.19	23.34	21.93	22.23	22.24	20.75	21.18	20.94	17.69	18.08	17.98
		3RB#3	22.90	23.06	23.26	21.81	22.09	22.13	19.88	19.96	20.10	17.65	17.96	17.96
		6RB#0	22.03	22.12	22.34	20.96	20.99	21.21	19.81	19.89	20.13	17.89	17.92	18.22
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	23.08	23.26	23.42	21.86	22.18	22.36	21.09	20.84	21.02	17.68	18.09	18.22
		1RB#8	23.12	23.25	23.41	22.13	22.44	22.32	21.28	21.22	21.16	17.64	18.45	18.27
		1RB#14	23.00	23.23	23.38	21.82	22.01	22.32	19.88	20.09	20.28	17.68	18.12	18.27
		8RB#0	22.07	22.21	22.39	21.07	21.18	21.40	19.87	20.08	20.27	17.97	17.96	18.21
		8RB#4	22.12	22.20	22.42	20.97	21.16	21.44	19.93	20.05	20.30	17.97	18.04	18.19
		8RB#7	22.09	22.25	22.42	21.10	21.23	21.35	19.87	20.10	20.25	18.02	17.98	18.21
		15RB#0	22.11	22.21	22.42	21.03	21.13	21.41	19.85	20.11	20.23	17.92	18.08	18.32
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	23.13	23.22	23.40	22.03	22.39	22.32	21.13	21.49	20.87	17.99	18.09	18.35
		1RB#12	22.82	23.20	23.29	22.02	22.46	22.21	21.02	21.68	21.22	18.29	18.39	18.48
		1RB#24	23.05	23.19	23.38	22.01	22.40	22.27	19.95	19.98	20.24	17.96	18.20	18.44
		12RB#0	22.10	22.14	22.39	21.07	21.19	21.29	19.94	19.98	20.29	17.92	18.07	18.21
		12RB#6	22.15	22.22	22.47	21.11	21.28	21.33	20.03	20.18	20.35	17.96	18.10	18.26
		12RB#13	22.10	22.19	22.40	21.12	21.30	21.31	19.95	19.95	20.31	17.94	18.08	18.18
		25RB#0	22.10	22.19	22.37	21.15	21.16	21.32	19.91	19.94	20.30	17.95	17.99	18.20
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	23.17	23.26	23.40	21.94	22.16	22.36	21.22	20.96	21.00	17.34	17.80	17.93
		1RB#24	23.08	23.23	23.29	22.10	22.28	22.23	21.22	21.12	21.00	17.72	18.32	18.03
		1RB#49	22.98	23.17	23.28	21.88	22.03	22.31	19.90	20.00	20.16	17.49	17.85	18.04
		25RB#0	21.98	22.14	22.31	20.98	21.16	21.14	19.86	20.04	20.17	17.90	17.95	18.06
		25RB#12	22.06	22.18	22.42	21.10	21.19	21.38	19.92	20.06	20.23	18.00	18.10	18.23
		25RB#25	22.05	22.21	22.37	21.12	21.22	21.30	19.89	20.01	20.17	18.01	18.06	18.14
		50RB#0	22.00	22.12	22.32	21.03	21.12	21.23	19.85	20.01	20.15	17.87	18.01	18.16
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	23.02	22.97	23.42	21.85	22.25	22.21	21.00	21.08	20.63	17.41	17.85	17.89
		1RB#38	22.85	23.06	23.31	22.00	22.05	21.95	21.12	21.03	20.84	17.55	18.17	17.90
		1RB#74	22.80	22.77	23.25	21.66	22.03	22.02	19.80	19.91	19.92	17.42	17.82	17.90
		38RB#0	21.88	21.94	22.16	21.86	21.94	22.05	19.81	19.84	19.93	19.83	19.91	19.92
		38RB#18	22.07	22.01	22.27	21.01	21.07	21.05	19.94	19.97	20.04	17.93	17.94	18.01
		38RB#37	21.83	21.97	22.16	21.86	21.94	22.01	19.93	19.85	20.02	19.96	19.86	20.02
		75RB#0	21.88	21.93	22.16	20.87	20.96	20.95	19.93	19.89	20.03	17.72	17.85	17.91

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	22.71	22.61	22.50	22.64	22.68	22.57	22.60	22.54	22.47	22.79	22.76	22.70
	$\pi/2$ BPSK	1	Right	22.67	22.53	22.47	22.65	22.55	22.50	22.40	22.26	22.21	22.65	22.57	22.44
	$\pi/2$ BPSK	Innter_Full	Mid	22.73	22.73	22.57	22.64	22.69	22.51	22.59	22.52	22.42	22.69	22.71	22.67
	QPSK	1	Left	22.66	22.68	22.53	22.64	22.71	22.54	22.66	22.55	22.39	22.86	22.68	22.82
	QPSK	1	Right	22.59	22.57	22.54	22.67	22.51	22.44	22.32	22.27	22.20	22.63	22.58	22.39
	QPSK	Innter_Full	Mid	22.74	22.67	22.69	22.73	22.64	22.55	22.52	22.59	22.48	22.80	22.75	22.62
	16QAM	1	Left	21.54	21.51	21.49	21.75	21.73	21.59	21.72	21.63	21.58	21.62	21.62	21.74
	16QAM	1	Right	21.55	21.43	21.47	21.78	21.89	21.54	21.43	21.39	21.29	21.36	21.35	21.44
	16QAM	Innter_Full	Mid	21.83	21.74	21.49	21.81	21.70	21.58	21.65	21.52	21.46	21.79	21.73	21.61
	64QAM	1	Left	20.33	20.31	20.47	20.24	20.19	20.32	20.33	20.10	20.02	20.56	20.36	20.40
	64QAM	1	Right	20.29	20.25	20.35	20.23	20.18	20.28	20.15	19.94	19.84	20.19	19.98	20.05
	64QAM	Innter_Full	Mid	20.23	20.17	20.05	20.19	20.21	20.11	20.16	20.06	19.92	20.18	20.20	20.15
	256QAM	1	Left	18.17	18.22	18.12	18.21	18.20	18.09	18.17	18.09	17.99	18.27	18.29	18.20
	256QAM	1	Right	18.14	18.08	18.02	18.18	18.06	17.97	18.01	17.94	17.77	18.07	18.18	17.95
	256QAM	Innter_Full	Mid	18.24	18.31	18.20	18.23	18.23	18.11	18.12	17.96	17.89	18.19	18.21	18.13
CP-OFDM	QPSK	1	Left	21.21	21.17	21.13	21.10	21.06	21.12	21.22	21.16	20.86	21.26	21.16	21.11
	QPSK	1	Right	21.20	20.98	21.35	21.09	20.93	21.08	20.95	20.87	20.63	20.86	21.00	20.77
	QPSK	Innter_Full	Mid	21.25	21.23	21.03	21.26	21.23	21.12	21.08	20.99	20.97	21.16	21.15	21.12
	16QAM	1	Left	21.03	20.92	20.70	20.64	20.70	20.50	20.62	20.51	20.50	20.98	20.98	19.52
	16QAM	1	Right	20.91	20.88	20.74	20.73	20.53	20.51	20.48	20.42	20.32	20.82	20.69	19.49
	16QAM	Innter_Full	Mid	20.84	20.89	20.70	20.72	20.68	20.53	20.65	20.50	20.40	20.63	20.61	19.52
	64QAM	1	Left	19.56	19.43	19.42	19.41	19.43	18.76	18.98	19.25	19.19	19.26	19.47	19.53
	64QAM	1	Right	19.40	19.38	19.41	19.42	19.26	18.86	18.67	19.04	18.94	19.03	19.24	19.50
	64QAM	Innter_Full	Mid	19.21	19.10	19.10	19.17	19.15	19.02	19.12	19.01	18.89	19.13	19.00	19.63
	256QAM	1	Left	16.52	16.67	16.05	16.52	16.63	16.42	16.54	16.46	16.51	16.70	16.41	16.36
	256QAM	1	Right	16.47	16.36	15.96	16.53	16.36	16.34	16.53	16.31	16.22	16.55	16.16	16.26
	256QAM	Innter_Full	Mid	16.43	16.33	16.21	16.17	16.14	15.98	16.09	16.08	15.93	16.15	16.06	16.05

5.2.12 LTE Band 38 and 5G NR n38

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	23.76	23.61	22.94	22.72	22.63	22.23	22.67	22.76	22.36	19.41	19.68	19.12
		1RB#12	23.68	23.44	22.96	22.57	22.69	22.08	22.65	22.71	22.37	19.31	19.65	18.74
		1RB#24	23.70	23.50	22.88	22.70	22.71	22.26	21.59	21.46	21.02	19.30	19.53	19.08
		12RB#0	22.67	22.51	22.07	21.65	21.52	21.10	21.57	21.45	21.02	19.63	19.55	19.09
		12RB#6	22.70	22.43	22.08	21.72	21.48	21.16	21.65	21.47	21.19	19.66	19.45	19.17
		12RB#13	22.67	22.46	22.06	21.64	21.43	21.09	21.54	21.47	21.02	19.51	19.48	19.09
		25RB#0	22.68	22.42	22.09	21.67	21.45	21.08	21.61	21.42	21.02	19.70	19.39	19.13
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	23.50	23.12	22.62	22.64	21.82	22.94	22.22	22.47	19.65	19.17	19.17
		1RB#24	23.46	23.42	23.01	22.65	22.68	21.71	23.16	22.13	22.24	19.72	19.27	18.85
		1RB#49	23.42	23.26	22.96	22.50	22.48	21.72	21.72	21.39	21.12	19.64	18.98	19.06
		25RB#0	22.69	22.53	22.12	21.72	21.69	21.08	21.70	21.37	21.12	19.75	19.55	19.13
		25RB#12	22.68	22.44	22.11	21.68	21.48	21.08	21.72	21.45	21.09	19.70	19.48	19.19
		25RB#25	22.67	22.40	22.12	21.65	21.51	21.07	21.67	21.40	21.12	19.72	19.46	19.05
		50RB#0	22.72	22.46	22.12	21.64	21.45	21.07	21.66	21.42	21.10	19.69	19.46	19.20
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	23.45	23.38	23.24	22.39	22.63	21.96	22.80	22.73	22.34	19.41	19.44	19.15
		1RB#38	23.41	23.20	23.00	22.45	22.27	21.75	21.50	22.49	22.35	19.35	19.17	19.16
		1RB#74	23.24	23.26	22.94	22.17	22.39	21.84	21.48	21.34	21.05	19.30	19.33	18.88
		38RB#0	22.44	22.22	22.01	22.45	22.23	21.95	21.50	21.33	21.03	21.47	21.31	21.04
		38RB#18	22.49	22.31	22.06	21.57	21.41	21.02	21.53	21.36	21.07	19.53	19.39	19.09
		38RB#37	22.44	22.29	21.94	22.43	22.26	21.95	21.53	21.39	21.04	21.52	21.39	21.02
		75RB#0	22.43	22.27	21.94	21.49	21.30	20.99	21.52	21.40	21.05	19.48	19.23	19.10
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	23.77	23.45	23.10	22.24	22.47	21.67	22.50	22.54	22.36	19.31	19.48	19.62
		1RB#49	23.24	23.21	22.91	22.53	22.61	22.00	21.53	22.24	22.17	19.14	19.41	19.33
		1RB#99	23.31	23.22	22.81	22.09	22.19	21.46	21.53	21.39	21.04	19.30	19.31	19.27
		50RB#0	22.53	22.40	22.12	21.49	21.42	21.16	21.53	21.33	21.08	19.49	19.36	19.15
		50RB#25	22.50	22.35	22.08	21.51	21.41	21.13	21.54	21.44	21.07	19.49	19.62	19.11
		50RB#50	22.43	22.24	21.96	21.39	21.24	20.94	21.52	21.34	21.09	19.47	19.33	18.96
		100RB#0	22.46	22.32	22.13	21.50	21.31	21.10	21.55	21.33	21.03	19.56	19.27	19.08

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	N/A	N/A	516000	519000	522000
Frequency (MHz)							2580	2595	2610
DFT-s-OFDM	$\pi/2$ BPSK	1	Left				23.61	23.59	23.53
	$\pi/2$ BPSK	1	Right				23.62	23.47	23.40
	$\pi/2$ BPSK	Innter_Full	Mid				23.61	23.62	23.52
	QPSK	1	Left				23.61	23.60	23.63
	QPSK	1	Right				23.59	23.65	23.58
	QPSK	Innter_Full	Mid				23.63	23.65	23.59
	16QAM	1	Left				22.56	22.59	22.55
	16QAM	1	Right				22.69	22.41	22.37
	16QAM	Innter_Full	Mid				22.65	22.66	22.55
	64QAM	1	Left				21.17	21.22	21.14
	64QAM	1	Right				21.26	21.19	21.02
	64QAM	Innter_Full	Mid				21.08	21.18	21.05
	256QAM	1	Left				19.05	19.08	19.07
	256QAM	1	Right				19.17	18.96	18.97
	256QAM	Innter_Full	Mid				19.17	19.15	19.04
CP-OFDM	QPSK	1	Left				21.94	22.12	21.99
	QPSK	1	Right				22.07	22.02	21.93
	QPSK	Innter_Full	Mid				22.10	22.13	22.07
	16QAM	1	Left				21.99	21.83	21.78
	16QAM	1	Right				21.70	21.79	21.71
	16QAM	Innter_Full	Mid				21.64	20.63	21.56
	64QAM	1	Left				20.42	20.03	20.28
	64QAM	1	Right				20.42	20.08	20.38
	64QAM	Innter_Full	Mid				20.15	20.19	20.12
	256QAM	1	Left				17.38	17.63	17.33
	256QAM	1	Right				17.48	17.60	17.50
	256QAM	Innter_Full	Mid				17.21	17.22	17.06

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UTTR-RF-FCC4G-V1.1

5.2.13 LTE Band 41 and 5G NR n41

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	22.54	23.23	22.98	21.92	22.44	21.93	21.58	22.71	21.61	18.54	19.33	18.36
		1RB#12	22.51	23.44	22.93	21.81	22.51	21.91	21.61	22.91	21.63	18.62	19.27	18.48
		1RB#24	22.55	23.19	23.03	21.82	22.29	21.95	20.44	21.41	20.59	18.63	19.41	18.42
		12RB#0	21.61	22.45	21.97	20.57	21.47	20.93	20.42	21.46	20.66	18.46	19.49	18.55
		12RB#6	21.61	22.44	21.97	20.57	21.43	20.95	20.46	21.58	20.71	18.46	19.57	18.72
		12RB#13	21.59	22.42	21.96	20.52	21.40	20.95	20.41	21.40	20.61	18.43	19.49	18.51
		25RB#0	21.55	22.41	21.96	20.58	21.43	20.97	20.43	21.43	20.63	18.46	19.45	18.70
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	22.55	23.46	22.95	21.84	22.25	21.95	21.64	22.18	21.97	18.45	19.15	18.65
		1RB#24	22.50	23.44	22.88	21.64	22.12	21.89	21.85	22.23	21.82	18.45	19.32	18.43
		1RB#49	22.48	23.35	22.83	21.80	22.08	21.91	20.39	21.45	20.56	18.40	19.00	18.69
		25RB#0	21.59	22.44	21.88	20.69	21.43	20.93	20.40	21.38	20.60	18.43	19.52	18.62
		25RB#12	21.62	22.46	22.02	20.59	21.49	21.00	20.43	21.43	20.65	18.45	19.50	18.73
		25RB#25	21.56	22.41	21.97	20.66	21.38	20.98	20.40	21.42	20.56	18.50	19.46	18.66
		50RB#0	21.56	22.45	21.93	20.59	21.49	20.86	20.38	21.33	20.62	18.41	19.53	18.64
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	22.33	23.49	22.72	21.66	22.28	21.80	21.43	22.58	21.83	18.25	19.10	18.67
		1RB#38	22.26	23.26	22.67	21.51	22.05	21.59	21.58	22.61	21.61	18.29	19.10	18.12
		1RB#74	22.42	23.28	22.71	21.65	22.06	21.75	20.33	21.27	20.57	18.26	19.00	18.71
		38RB#0	21.48	22.29	21.86	21.44	22.29	21.89	20.33	21.27	20.55	18.33	19.27	18.54
		38RB#18	21.48	22.30	21.83	20.52	21.26	20.86	20.29	21.28	20.53	18.34	19.29	18.53
		38RB#37	21.48	22.30	21.81	21.45	22.29	21.88	20.30	21.32	20.54	18.30	19.33	18.54
		75RB#0	21.44	22.30	21.83	20.46	21.36	20.84	20.28	21.34	20.56	18.33	19.32	18.49
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	22.40	23.31	22.85	21.52	21.92	21.53	21.01	22.28	21.48	18.03	19.09	18.12
		1RB#49	22.39	23.17	22.65	21.54	22.28	21.69	20.31	22.12	21.41	17.81	18.95	18.46
		1RB#99	22.56	23.03	22.78	21.53	21.60	21.47	20.32	21.30	20.57	18.24	18.89	18.14
		50RB#0	21.47	22.39	21.79	20.48	21.44	20.73	20.33	21.32	20.53	18.20	19.27	18.50
		50RB#25	21.56	22.33	21.81	20.61	21.41	20.84	20.27	21.32	20.57	18.29	19.27	18.54
		50RB#50	21.59	22.24	21.83	20.57	21.29	20.77	20.31	21.30	20.50	18.35	19.20	18.52
		100RB#0	21.56	22.35	21.82	20.58	21.36	20.86	20.29	21.32	20.53	18.36	19.28	18.53

5G NR n41		RB Size	RB Offset	20MHz BW SCS = 30kHz			30MHz BW SCS = 30kHz			40MHz BW SCS = 30kHz			50MHz BW SCS = 30kHz		
Channel				501204	518598	535998	502200	518598	534996	503202	518598	534000	504204	518598	532998
Frequency (MHz)				2506.02	2592.99	2679.99	2511	2592.99	2674.98	2516.01	2592.99	2670	2521.02	2592.99	2664.99
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	22.68	23.61	23.00	22.32	23.47	22.79	22.39	23.46	22.78	22.38	23.30	22.95
	$\pi/2$ BPSK	1	Right	22.78	23.56	22.90	22.62	23.55	22.99	22.80	23.54	22.96	22.96	23.29	22.99
	$\pi/2$ BPSK	Innter_Full	Mid	22.61	23.62	23.04	22.54	23.58	22.99	22.47	23.58	22.95	22.62	23.47	22.97
	QPSK	1	Left	22.67	23.64	22.98	22.52	23.52	22.85	22.50	23.41	22.87	22.33	23.34	23.00
	QPSK	1	Right	22.69	23.63	23.08	22.69	23.61	23.02	22.87	23.52	22.97	23.07	23.41	23.12
	QPSK	Innter_Full	Mid	22.56	23.63	23.09	22.49	23.66	22.96	22.53	23.62	22.97	22.55	23.54	22.97
	16QAM	1	Left	22.87	23.53	23.46	22.65	23.56	23.37	22.71	23.55	23.35	22.61	23.42	23.42
	16QAM	1	Right	22.95	23.46	23.47	22.92	23.62	23.61	22.97	23.58	23.60	23.17	23.46	23.16
	16QAM	Innter_Full	Mid	22.55	23.54	23.07	22.57	23.64	22.98	22.49	23.58	22.93	22.60	23.51	23.00
	64QAM	1	Left	21.20	22.31	23.46	21.05	22.08	21.43	21.12	22.05	21.50	21.14	22.06	21.77
	64QAM	1	Right	21.39	22.21	23.28	21.33	22.09	21.62	21.52	22.05	21.62	21.75	22.07	21.72
	64QAM	Innter_Full	Mid	21.11	22.18	23.28	21.05	22.00	21.38	21.00	22.08	21.46	21.14	22.02	21.51
CP-OFDM	256QAM	1	Left	18.87	19.95	23.29	18.62	19.77	19.03	18.70	19.70	19.16	18.62	19.70	19.20
	256QAM	1	Right	18.88	19.78	23.28	18.92	19.93	19.32	19.01	19.76	19.32	19.18	19.66	19.21
	256QAM	Innter_Full	Mid	19.01	20.11	23.28	18.95	19.95	19.43	18.96	20.12	19.41	19.01	19.99	19.41
	QPSK	1	Left	21.86	23.25	23.46	21.86	22.81	22.42	21.77	22.97	22.39	21.93	22.86	22.50
	QPSK	1	Right	22.19	23.10	23.37	22.10	22.93	22.49	22.28	23.17	22.49	22.59	23.06	22.54
	QPSK	Innter_Full	Mid	22.09	23.13	23.11	22.01	23.14	22.47	21.99	23.03	22.40	22.04	23.03	22.48
	16QAM	1	Left	21.59	22.79	22.01	21.42	22.98	21.94	21.49	22.60	21.76	21.81	22.96	22.40
	16QAM	1	Right	21.84	22.84	22.17	21.81	22.75	22.06	21.86	22.83	22.09	22.53	22.85	22.49
	16QAM	Innter_Full	Mid	21.64	22.75	23.20	21.53	22.65	21.99	21.42	22.46	21.89	21.55	22.51	21.97
	64QAM	1	Left	20.36	21.46	20.65	20.11	21.22	20.77	20.20	21.27	20.57	20.00	21.29	20.55
	64QAM	1	Right	20.55	21.47	20.81	20.42	21.26	20.94	20.60	21.33	20.89	20.54	21.26	20.62
	64QAM	Innter_Full	Mid	20.18	21.25	20.58	20.00	21.10	20.42	20.02	21.05	20.43	20.12	21.04	20.50

5G NR n41		RB Size	RB Offset	60MHz BW SCS = 30kHz			70MHz BW SCS = 30kHz			80MHz BW SCS = 30kHz			90MHz BW SCS = 30kHz		
Channel				505200	518598	531996	506202	518598	531000	507204	518598	529998	508200	518598	528996
Frequency (MHz)				2526	2592.99	2659.98	2531.01	2592.99	2655	2536.02	2592.99	2649.99	2541	2592.99	2644.98
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	22.30	23.33	23.14	22.19	23.20	23.27	22.23	23.10	23.24	22.28	23.00	23.25
	$\pi/2$ BPSK	1	Right	23.31	23.25	22.71	23.21	23.14	22.69	23.23	23.08	22.91	23.48	23.07	22.89
	$\pi/2$ BPSK	Innter_Full	Mid	22.73	23.52	22.97	22.61	23.51	22.88	22.73	23.44	22.94	22.84	23.50	22.97
	QPSK	1	Left	22.27	23.34	23.10	22.25	23.19	23.36	22.27	23.18	23.27	22.33	22.95	23.34
	QPSK	1	Right	23.36	23.23	22.74	23.18	23.13	22.76	23.27	22.97	22.82	23.61	22.99	22.87
	QPSK	Innter_Full	Mid	22.75	23.58	22.88	22.62	23.52	22.91	22.75	23.58	22.85	22.85	23.47	23.01
	16QAM	1	Left	22.51	23.49	23.30	22.76	23.48	23.19	22.53	23.35	23.56	22.55	23.33	23.45
	16QAM	1	Right	23.49	23.43	22.90	22.78	23.38	23.19	23.53	23.25	22.95	23.56	23.45	23.25
	16QAM	Innter_Full	Mid	22.65	23.43	22.87	22.53	23.44	22.86	22.70	23.51	22.83	22.91	23.52	23.02
	64QAM	1	Left	21.10	21.98	21.86	20.85	21.90	21.91	20.96	21.78	22.00	21.00	21.66	22.04
	64QAM	1	Right	22.05	21.90	21.49	21.87	21.83	21.46	21.98	21.79	21.54	22.22	21.74	21.63
	64QAM	Innter_Full	Mid	21.14	21.97	21.31	21.15	21.99	21.31	21.18	21.83	21.35	21.43	22.06	21.49
CP-OFDM	256QAM	1	Left	18.55	19.52	19.37	18.46	19.45	19.44	18.55	19.39	19.55	18.51	19.17	19.58
	256QAM	1	Right	19.44	19.37	18.99	19.50	19.82	19.07	19.49	19.32	19.04	19.71	19.28	19.13
	256QAM	Innter_Full	Mid	19.10	20.02	19.38	19.00	19.95	19.27	19.22	19.96	19.33	19.33	19.96	19.38
	QPSK	1	Left	21.70	22.53	22.59	21.68	22.59	22.58	21.64	22.60	22.75	21.61	22.26	22.70
	QPSK	1	Right	22.88	22.56	22.23	22.72	22.54	22.25	22.50	22.53	22.22	23.00	22.49	22.52
	QPSK	Innter_Full	Mid	22.21	22.92	22.43	22.16	22.87	22.39	22.25	22.95	22.42	22.37	22.92	22.46
	16QAM	1	Left	21.77	22.57	22.45	21.14	22.61	22.50	21.30	22.54	22.73	21.34	22.34	22.67
	16QAM	1	Right	22.75	22.70	22.20	22.84	22.56	22.29	22.49	22.44	22.21	22.51	22.46	22.37
	16QAM	Innter_Full	Mid	21.74	22.46	21.85	21.68	22.50	21.91	21.67	22.35	21.88	21.93	22.46	22.00
	64QAM	1	Left	19.83	21.15	20.70	20.06	20.82	20.71	20.04	20.60	20.83	20.00	20.65	20.95
	64QAM	1	Right	20.82	20.90	20.36	21.05	20.66	20.37	21.10	20.46	20.36	21.33	20.65	20.48
	64QAM	Innter_Full	Mid	20.14	20.98	20.35	20.14	20.93	20.31	20.23	20.93	20.39	20.38	20.91	20.46

5G NR n41		RB Size	RB Offset	100MHz BW SCS = 30kHz		
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
DFT-s-OFDM	$\pi/2$ BPSK	1	Left	22.41	23.00	23.55
	$\pi/2$ BPSK	1	Right	23.62	23.15	23.02
	$\pi/2$ BPSK	Innater_Full	Mid	23.11	23.62	23.25
	QPSK	1	Left	22.45	23.14	23.43
	QPSK	1	Right	23.69	23.39	23.26
	QPSK	Innater_Full	Mid	23.13	23.38	23.21
	16QAM	1	Left	22.59	23.49	23.48
	16QAM	1	Right	23.56	23.42	23.38
	16QAM	Innater_Full	Mid	23.04	23.46	23.15
	64QAM	1	Left	21.14	21.85	22.35
	64QAM	1	Right	22.36	21.88	21.77
	64QAM	Innater_Full	Mid	21.61	22.22	21.70
	256QAM	1	Left	18.63	19.25	19.78
	256QAM	1	Right	19.92	19.32	19.29
	256QAM	Innater_Full	Mid	19.57	20.13	19.72
CP-OFDM	QPSK	1	Left	21.73	22.37	22.91
	QPSK	1	Right	22.74	22.57	22.62
	QPSK	Innater_Full	Mid	22.67	23.10	22.71
	16QAM	1	Left	21.47	22.37	22.97
	16QAM	1	Right	22.94	22.53	22.55
	16QAM	Innater_Full	Mid	22.15	22.59	22.15
	64QAM	1	Left	20.12	20.64	21.11
	64QAM	1	Right	21.73	20.72	20.54
	64QAM	Innater_Full	Mid	20.65	21.08	20.69
	256QAM	1	Left	17.14	17.74	18.29
	256QAM	1	Right	18.43	17.81	18.00
	256QAM	Innater_Full	Mid	17.60	18.13	17.61

5.2.14 LTE Band 66 and 5G NR n66

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	22.36	22.45	22.88	21.27	21.53	21.69	21.33	21.00	21.71	17.93	18.17	18.34
		1RB#2	22.42	22.42	22.93	21.39	21.76	22.13	19.94	21.23	21.69	18.00	18.39	18.49
		1RB#5	22.36	22.49	22.86	21.25	21.45	21.89	19.90	20.12	20.34	18.00	18.13	18.42
		3RB#0	22.37	22.51	22.83	21.23	21.34	21.73	19.96	20.16	20.34	17.94	18.01	18.40
		3RB#1	22.50	22.64	22.91	21.41	21.40	21.77	21.16	21.04	21.49	18.07	17.90	18.40
		3RB#3	22.38	22.44	22.82	21.23	21.37	21.79	19.90	20.09	20.38	17.96	17.95	18.33
		6RB#0	21.48	21.66	21.89	20.45	20.51	20.79	20.00	20.08	20.30	17.93	18.20	18.48
Band	BW	RB	131987	132322	132657	131987	132322	132657	131987	132322	132657	131987	132322	132657
	(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	1711.5 MHz	1745 MHz	1778.5 MHz
66	3	1RB#0	22.46	22.72	22.93	21.54	21.55	21.59	20.96	20.97	21.38	18.19	18.28	18.62
		1RB#8	22.62	22.66	23.04	21.55	21.85	21.97	20.12	21.33	21.47	18.17	18.54	18.46
		1RB#14	22.42	22.69	22.90	21.47	21.40	21.90	20.12	20.36	20.54	18.08	18.26	18.52
		8RB#0	21.51	21.60	21.97	20.50	20.60	21.08	20.05	20.34	20.53	18.14	18.05	18.53
		8RB#4	21.54	21.69	22.00	20.49	20.67	20.86	20.15	20.17	20.60	18.02	18.17	18.50
		8RB#7	21.53	21.70	21.97	20.50	20.60	21.01	20.10	20.31	20.47	18.15	18.13	18.59
		15RB#0	21.52	21.68	21.96	20.54	20.61	20.86	20.12	20.30	20.45	18.11	18.23	18.48
Band	BW	RB	131997	132322	132647	131997	132322	132647	131997	132322	132647	131997	132322	132647
	(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	1712.5 MHz	1745 MHz	1777.5 MHz
66	5	1RB#0	22.58	22.67	22.93	21.55	21.73	22.02	20.99	21.65	21.76	18.41	18.34	18.71
		1RB#12	22.36	22.58	22.77	21.34	21.71	22.00	20.26	21.89	21.63	18.39	18.49	18.63
		1RB#24	22.52	22.69	22.95	21.51	21.79	21.88	20.27	20.19	21.68	18.41	18.42	18.69
		12RB#0	21.55	21.64	22.02	20.55	20.67	21.07	20.27	20.19	20.60	18.17	18.22	18.57
		12RB#6	21.58	21.73	22.06	20.58	20.80	21.01	20.26	20.35	20.64	18.21	18.32	18.59
		12RB#13	21.59	21.65	22.00	20.53	20.75	20.99	20.23	20.16	20.63	18.13	18.27	18.51
		25RB#0	21.59	21.68	22.01	20.55	20.66	21.06	20.25	20.22	20.61	18.20	18.24	18.60
Band	BW	RB	132022	132322	132622	132022	132322	132622	132022	132322	132622	132022	132322	132622
	(MHz)		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	22.40	22.57	22.89	21.57	21.50	21.70	20.93	20.92	21.79	18.25	18.18	18.20
		1RB#24	22.44	22.59	22.89	21.40	21.69	21.95	20.18	21.17	21.78	17.99	18.44	18.34
		1RB#49	22.40	22.63	22.83	21.45	21.52	21.62	20.18	20.34	20.58	18.17	18.24	18.29
		25RB#0	21.56	21.62	21.99	20.56	20.63	20.99	20.16	20.29	20.60	18.15	18.28	18.56
		25RB#12	21.55	21.72	21.97	20.59	20.68	20.92	20.20	20.37	20.53	18.21	18.36	18.66
		25RB#25	21.52	21.77	22.00	20.45	20.70	20.98	20.17	20.31	20.59	18.21	18.36	18.64
		50RB#0	21.55	21.67	21.96	20.53	20.67	20.96	20.16	20.31	20.57	18.26	18.28	18.53
Band	BW	RB	132047	132322	132597	132047	132322	132597	132047	132322	132597	132047	132322	132597
	(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	1717.5 MHz	1745 MHz	1772.5 MHz
66	15	1RB#0	22.33	22.39	22.70	21.46	21.57	21.67	20.86	20.99	21.49	18.03	18.10	18.30
		1RB#38	22.39	22.62	22.84	21.31	21.52	21.85	20.04	21.00	21.60	17.71	18.04	18.61
		1RB#74	22.21	22.41	22.73	21.31	21.70	21.61	20.02	20.18	20.38	17.69	18.26	18.52
		38RB#0	21.42	21.55	21.82	21.42	21.53	21.80	20.01	20.15	20.41	20.03	20.22	20.38
		38RB#18	21.44	21.61	21.84	20.43	20.61	20.82	20.07	20.21	20.43	18.03	18.20	18.36
		38RB#37	21.43	21.52	21.78	21.42	21.55	21.79	20.07	20.19	20.34	20.07	20.25	20.37
		75RB#0	21.43	21.56	21.79	20.37	20.59	20.79	20.08	20.21	20.35	18.01	18.17	18.39
Band	BW	RB	132072	132322	132572	132072	132322	132572	132072	132322	132572	132072	132322	132572
	(MHz)		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	22.46	22.46	23.05	21.39	21.62	21.58	21.47	21.32	21.04	18.02	18.31	18.25
		1RB#49	22.30	22.48	23.04	21.40	21.66	21.66	21.01	21.47	20.96	18.11	18.38	18.35
		1RB#99	22.44	22.59	22.89	21.37	21.75	21.57	20.02	20.19	20.35	18.08	18.48	18.36
		50RB#0	21.39	21.55	21.79	20.36	20.54	20.83	20.02	20.24	20.37	17.98	18.08	18.34
		50RB#25	21.46	21.62	21.78	20.46	20.67	20.79	20.05	20.19	20.34	18.05	18.17	18.36
		50RB#50	21.47	21.60	21.82	20.44	20.62	20.91	20.04	20.18	20.39	17.99	18.18	18.45
		100RB#0	21.46	21.58	21.80	20.45	20.57	20.79	20.03	20.23	20.34	18.00	18.13	18.34

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	22.20	22.49	22.56	22.24	22.31	22.50	22.17	22.27	22.46	22.34	22.52	22.40
	$\pi/2$ BPSK	1	Right	22.21	22.39	22.49	22.17	22.38	22.45	22.09	22.39	22.24	22.43	22.48	22.42
	$\pi/2$ BPSK	Innter_Full	Mid	22.30	22.52	22.48	22.21	22.44	22.54	22.14	22.29	22.38	22.37	22.55	22.55
	QPSK	1	Left	22.23	22.39	22.56	22.18	22.28	22.54	22.11	22.26	22.32	22.37	22.45	22.50
	QPSK	1	Right	22.23	22.31	22.49	22.19	22.30	22.54	22.09	22.31	22.38	22.37	22.44	22.57
	QPSK	Innter_Full	Mid	22.27	22.48	22.57	22.23	22.42	22.52	22.17	22.27	22.48	22.30	22.55	22.59
	16QAM	1	Left	21.20	21.36	21.58	21.15	21.32	21.60	21.09	21.42	21.41	21.34	21.54	21.47
	16QAM	1	Right	21.21	21.39	21.54	21.21	21.58	21.57	21.07	21.34	21.40	21.42	21.49	21.63
	16QAM	Innter_Full	Mid	21.39	21.60	21.75	21.20	21.46	21.66	21.15	21.30	21.43	21.29	21.49	21.59
	64QAM	1	Left	20.00	20.21	20.30	19.93	20.10	20.32	19.85	20.01	20.00	20.19	20.22	20.16
	64QAM	1	Right	19.97	20.10	20.22	19.94	20.13	20.21	19.77	19.93	19.99	20.20	20.21	20.31
	64QAM	Innter_Full	Mid	19.94	20.01	20.15	19.73	20.01	20.11	19.72	19.77	19.86	19.87	20.12	20.07
	256QAM	1	Left	17.70	17.83	18.00	17.63	17.79	18.03	17.57	17.67	17.75	17.79	17.89	17.84
	256QAM	1	Right	17.73	17.91	18.04	17.60	17.76	18.00	17.53	17.70	17.67	17.80	17.84	17.99
	256QAM	Innter_Full	Mid	17.81	17.90	18.01	17.74	17.94	18.11	17.62	17.68	17.94	17.80	18.03	18.08
CP-OFDM	QPSK	1	Left	20.68	20.81	21.05	20.64	20.80	21.03	20.64	20.90	20.94	20.85	21.03	21.01
	QPSK	1	Right	20.69	20.86	20.91	20.66	20.85	21.10	20.56	20.81	20.81	20.93	21.06	20.97
	QPSK	Innter_Full	Mid	20.72	19.33	21.03	20.73	20.96	21.07	20.60	20.76	20.88	20.84	20.93	21.13
	16QAM	1	Left	20.30	20.56	20.72	20.40	20.43	20.69	20.31	20.42	20.51	20.53	19.26	20.70
	16QAM	1	Right	20.35	20.49	20.71	20.25	20.44	20.83	20.30	20.29	20.49	20.59	19.26	20.83
	16QAM	Innter_Full	Mid	20.38	20.61	20.65	20.20	20.47	20.61	20.14	20.25	20.36	20.35	19.26	20.58
	64QAM	1	Left	18.86	18.93	18.92	18.77	18.87	19.05	18.60	18.69	18.79	18.94	19.02	18.87
	64QAM	1	Right	18.72	19.00	19.16	18.81	19.04	19.08	18.70	18.84	18.90	19.08	19.03	19.14
	64QAM	Innter_Full	Mid	18.73	18.85	19.02	18.73	18.87	19.10	18.64	18.83	18.87	18.92	19.05	19.13
	256QAM	1	Left	15.94	16.05	16.29	16.05	16.09	16.30	15.82	15.95	16.02	16.11	16.22	16.12
	256QAM	1	Right	15.93	16.10	16.26	15.91	16.15	16.28	15.86	16.02	16.01	16.21	16.09	16.27
	256QAM	Innter_Full	Mid	15.73	15.89	16.07	15.69	15.88	16.03	15.72	15.82	16.01	15.87	15.91	16.13

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	22.56	22.56	22.63	21.86	21.66	21.63	21.30	21.58	21.51	20.63	20.23	20.13
		1RB#12	22.40	22.55	22.44	21.70	21.75	21.44	21.61	21.89	21.36	20.55	20.53	20.48
		1RB#24	22.51	22.38	22.52	21.81	21.68	21.52	21.53	21.59	21.63	20.47	20.31	20.18
		12RB#0	21.91	21.66	21.61	20.90	20.72	20.69	20.40	20.26	20.16	19.35	19.18	19.09
		12RB#6	21.89	21.80	21.68	20.90	20.78	20.67	20.47	20.36	20.16	19.43	19.21	19.14
		12RB#13	21.86	21.73	21.70	20.87	20.76	20.71	20.48	20.21	20.14	19.34	19.22	19.18
		25RB#0	21.86	21.71	21.64	20.91	20.65	20.68	20.46	20.17	20.12	19.34	19.22	19.13
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	22.44	22.43	22.49	22.00	22.32	22.22	21.15	20.97	21.55	19.94	19.69	19.33
		1RB#24	22.50	22.63	22.41	22.25	22.11	22.25	21.20	21.23	21.43	19.56	19.87	19.43
		1RB#49	22.34	22.63	22.38	21.93	22.22	21.94	21.80	21.11	21.52	19.42	19.60	19.31
		25RB#0	21.89	21.65	21.65	21.39	21.11	21.18	20.27	20.21	20.16	19.35	19.25	19.15
		25RB#12	21.88	21.75	21.60	21.40	21.27	21.20	20.29	20.29	20.10	19.26	19.28	19.16
		25RB#25	21.75	21.70	21.68	21.32	21.17	21.21	20.31	20.20	20.13	19.25	19.15	19.15
		50RB#0	21.82	21.72	21.64	21.32	21.21	21.14	20.30	20.28	20.12	19.24	19.25	19.14
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	22.60	22.56	22.47	22.07	22.15	22.20	21.23	21.37	21.18	19.66	19.34	19.57
		1RB#38	22.59	22.56	22.61	22.03	21.97	22.06	21.29	21.32	21.19	19.77	19.23	19.75
		1RB#74	22.50	22.41	22.34	21.85	22.09	22.13	21.30	21.38	21.20	19.66	19.35	19.70
		38RB#0	21.43	21.68	21.62	21.52	21.76	21.64	20.19	19.79	20.05	19.14	18.79	19.05
		38RB#18	21.68	21.63	21.52	20.71	20.61	20.55	20.16	20.13	20.07	19.15	19.14	19.06
		38RB#37	21.30	21.60	21.61	21.38	21.58	21.57	20.26	20.24	20.12	19.21	19.23	19.18
		75RB#0	21.65	21.59	21.52	20.69	20.55	20.52	20.19	20.10	20.06	19.19	19.15	19.05
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	22.62	22.73	22.53	22.05	22.03	22.24	21.24	21.29	20.74	19.87	19.64	19.51
		1RB#49	22.54	22.64	22.37	22.04	22.04	22.08	21.08	21.11	20.67	19.86	19.61	19.63
		1RB#99	22.45	22.58	22.47	21.84	21.96	22.12	21.12	21.22	20.76	19.99	19.55	19.65
		50RB#0	21.62	21.55	21.57	21.20	21.08	21.06	20.06	20.10	20.06	19.18	19.15	19.14
		50RB#25	21.65	21.63	21.50	21.18	21.04	21.07	20.07	20.19	20.17	19.19	19.01	19.08
		50RB#50	21.56	21.50	21.46	21.15	21.05	21.04	20.04	20.21	20.06	19.16	19.13	19.08
		100RB#0	21.69	21.61	21.54	21.20	21.08	21.04	20.04	20.28	20.18	19.22	19.15	19.02

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	22.76	22.63	22.48	22.86	22.69	22.71	22.68	22.63	22.46	22.77	22.66	22.62
	$\pi/2$ BPSK	1	Right	22.77	22.72	22.45	22.65	22.70	22.51	22.61	22.42	22.24	22.58	22.48	22.37
	$\pi/2$ BPSK	Innter_Full	Mid	22.80	22.83	22.55	22.87	22.77	22.56	22.77	22.69	22.51	22.71	22.67	22.55
	QPSK	1	Left	22.85	22.65	22.51	22.88	22.68	22.72	22.78	22.55	22.46	22.90	22.79	22.64
	QPSK	1	Right	22.83	22.68	22.48	22.69	22.70	22.53	22.58	22.52	22.35	22.64	22.50	22.32
	QPSK	Innter_Full	Mid	22.80	22.86	22.59	22.89	22.82	22.66	22.70	22.67	22.54	22.73	22.67	22.49
	16QAM	1	Left	21.94	21.68	21.36	22.00	21.80	21.53	21.95	21.71	21.34	21.94	21.74	21.66
	16QAM	1	Right	21.85	21.70	21.25	21.86	21.69	21.34	21.73	21.60	21.13	21.65	21.57	21.38
	16QAM	Innter_Full	Mid	22.04	21.93	21.66	21.91	21.82	21.68	21.81	21.70	21.53	21.76	21.68	21.49
	64QAM	1	Left	20.45	20.28	20.17	20.41	20.31	20.26	20.35	20.17	20.19	20.44	20.36	20.33
	64QAM	1	Right	20.40	20.20	20.07	20.34	20.30	20.07	20.24	20.15	20.00	20.25	20.19	20.02
	64QAM	Innter_Full	Mid	20.50	20.34	20.05	20.25	20.22	20.14	20.24	20.17	20.03	20.30	20.20	20.13
	256QAM	1	Left	18.30	18.20	18.05	18.39	18.22	18.22	18.38	18.21	17.89	18.19	18.00	18.00
	256QAM	1	Right	18.31	18.25	17.94	18.30	18.25	17.90	18.27	18.21	17.82	18.06	17.98	17.82
	256QAM	Innter_Full	Mid	18.34	18.30	18.16	18.39	18.32	18.14	18.35	18.20	18.07	18.20	18.17	17.98
CP-OFDM	QPSK	1	Left	21.29	20.98	21.10	21.47	21.40	21.20	21.52	21.40	21.13	21.47	21.24	21.22
	QPSK	1	Right	21.45	21.16	20.82	21.29	21.40	20.89	21.32	21.28	20.75	21.08	21.07	20.96
	QPSK	Innter_Full	Mid	21.44	21.31	21.17	21.34	21.31	21.09	21.22	21.18	21.05	21.17	21.21	21.08
	16QAM	1	Left	20.87	20.65	20.73	21.31	21.16	20.90	21.28	20.90	20.83	21.01	20.90	20.62
	16QAM	1	Right	20.83	20.76	20.68	20.98	21.04	20.79	20.93	20.79	20.53	20.83	20.76	20.38
	16QAM	Innter_Full	Mid	21.03	20.90	20.75	20.88	20.90	20.71	20.69	20.54	20.42	20.67	20.63	20.56
	64QAM	1	Left	19.41	19.32	19.25	19.51	19.40	19.49	19.47	19.23	19.03	19.37	19.47	18.98
	64QAM	1	Right	19.26	19.44	19.13	19.26	19.28	19.21	19.35	19.14	18.84	19.34	19.25	18.77
	64QAM	Innter_Full	Mid	19.33	19.28	18.95	19.26	19.23	19.01	19.29	19.16	19.09	19.21	19.16	19.07
	256QAM	1	Left	16.54	16.54	16.32	16.62	16.44	16.38	16.51	16.30	16.51	16.43	16.32	16.36
	256QAM	1	Right	16.47	16.56	16.18	16.39	16.38	16.16	16.43	16.33	16.28	16.51	16.36	16.30
	256QAM	Innter_Full	Mid	16.34	16.24	16.26	16.43	16.32	16.21	16.13	16.10	15.99	16.21	16.17	16.13

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 14 and 5G NR n14: FCC 47 CFR Part 90.542(a)(7)

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 90.542(a)(7):

Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

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	Antenna Gain (dBi)	Max. Conducted Power (dBm)	Max. Tune Up (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
LTE Band 2	1850 - 1910 MHz	1.27	22.62	23.0	24.27	0.2673
LTE Band 4	1710 - 1755 MHz	2.08	22.84	23.5	25.58	0.3614
LTE Band 5	824 - 849 MHz	-5.55	22.93	23.5	15.80	0.0380
LTE Band 7	2500 - 2570 MHz	-8.78	22.58	23.0	14.22	0.0264
LTE Band 12	699 - 716 MHz	-15.35	22.92	23.5	6.00	0.0040
LTE Band 13	777 - 787 MHz	-8.42	23.03	23.5	12.93	0.0196
LTE Band 14	788 - 798 MHz	-8.42	23.12	23.5	12.93	0.0196
LTE Band 17	704 - 716 MHz	-15.35	22.94	23.5	6.00	0.0040
LTE Band 25	1850 - 1915 MHz	1.27	23.45	24.0	25.27	0.3365
LTE Band 26	814 - 824 MHz	-5.55	23.39	24.0	16.30	0.0427
LTE Band 26	824 - 849 MHz	-5.55	23.42	24.0	16.30	0.0427
LTE Band 66	1710 - 1780 MHz	2.08	23.05	23.5	25.58	0.3614
LTE Band 71	663 - 698 MHz	-19.84	22.73	23.0	1.01	0.0013
LTE Band 38	2570 - 2620 MHz	-2.46	23.77	24.5	22.04	0.1600
LTE Band 41	2496 - 2690 MHz	-2.46	23.92	24.5	22.04	0.1600
5G NR n2	1850 - 1910 MHz	1.27	22.65	23.0	24.27	0.2673
5G NR n5	824 - 849 MHz	-5.55	22.64	23.0	15.30	0.0339
5G NR n7	2500 - 2570 MHz	-8.78	22.46	23.0	14.22	0.0264
5G NR n12	699 - 716 MHz	-15.35	22.78	23.0	5.50	0.0035
5G NR n13	777 - 787 MHz	-8.42	23.23	23.5	12.93	0.0196
5G NR n14	788 - 798 MHz	-8.42	23.37	23.5	12.93	0.0196
5G NR n25	1850 - 1915 MHz	1.27	22.47	23.0	24.27	0.2673
5G NR n26	814 - 824 MHz	-5.55	22.78	23.5	15.80	0.0380
5G NR n26	824 - 849 MHz	-5.55	22.86	23.5	15.80	0.0380
5G NR n66	1710 - 1780 MHz	2.08	22.59	23.0	25.08	0.3221
5G NR n71	663 - 698 MHz	-19.84	22.90	23.5	1.51	0.0014
5G NR n38	2570 - 2620 MHz	-2.46	23.89	24.0	21.54	0.1426
5G NR n41	2496 - 2690 MHz	-2.46	23.69	24.0	21.54	0.1426

Note:

1. 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.
2. $EIRP = \text{Tune Up (dBm)} + \text{Antenna Gain (dBi)}$, $ERP = EIRP - 2.15$

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)
Test Method:	LTE Band 26 and 5G NR n26: N/A
	LTE Band 14 and 5G NR n14: N/A
	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 S

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 S

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 14 and 5G NR n14: FCC 47 CFR Part 90.543
Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 90.543:

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.

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.

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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 S



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 14 and 5G NR n14: FCC 47 CFR Part 90.543

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, 90.543:

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.

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 S

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 14 and 5G NR n14: FCC 47 CFR Part 90.543

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 90.543:

(e) (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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 and 5G NR n7

LTE Band 7_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	44.154	-68.74	25.99	-42.75	-25.00	-17.75	Horizontal
2	538.811	-79.02	39.28	-39.74	-25.00	-14.74	Horizontal
3	844.803	-80.95	44.32	-36.63	-25.00	-11.63	Horizontal
4	5020.000	-59.42	11.38	-48.04	-25.00	-23.04	Horizontal
5	7530.000	-60.43	14.22	-46.21	-25.00	-21.21	Horizontal
6	17570.000	-64.08	21.00	-43.08	-25.00	-18.08	Horizontal
7	44.154	-65.02	25.99	-39.03	-25.00	-14.03	Vertical
8	684.226	-79.71	41.26	-38.45	-25.00	-13.45	Vertical
9	827.179	-79.87	43.91	-35.96	-25.00	-10.96	Vertical
10	5020.000	-59.75	11.38	-48.37	-25.00	-23.37	Vertical
11	7530.000	-59.86	14.22	-45.64	-25.00	-20.64	Vertical
12	17570.000	-64.20	21.00	-43.20	-25.00	-18.20	Vertical
Middle Channel							
1	50.461	-68.67	24.46	-44.21	-25.00	-19.21	Horizontal
2	723.793	-80.06	42.03	-38.03	-25.00	-13.03	Horizontal
3	893.656	-80.98	44.95	-36.03	-25.00	-11.03	Horizontal
4	5070.000	-59.40	11.47	-47.93	-25.00	-22.93	Horizontal
5	7605.000	-60.73	14.19	-46.54	-25.00	-21.54	Horizontal
6	17745.000	-65.33	21.56	-43.77	-25.00	-18.77	Horizontal
7	44.154	-66.77	25.99	-40.78	-25.00	-15.78	Vertical
8	734.037	-79.98	42.20	-37.78	-25.00	-12.78	Vertical
9	887.398	-81.56	44.96	-36.60	-25.00	-11.60	Vertical
10	5070.000	-59.38	11.47	-47.91	-25.00	-22.91	Vertical
11	7605.000	-61.41	14.19	-47.22	-25.00	-22.22	Vertical
12	17745.000	-64.43	21.56	-42.87	-25.00	-17.87	Vertical
Highest Channel							
1	44.154	-69.74	25.99	-43.75	-25.00	-18.75	Horizontal
2	47.703	-69.37	25.15	-44.22	-25.00	-19.22	Horizontal
3	827.179	-80.87	43.91	-36.96	-25.00	-11.96	Horizontal
4	5120.000	-60.42	11.55	-48.87	-25.00	-23.87	Horizontal
5	7680.000	-60.79	14.16	-46.63	-25.00	-21.63	Horizontal
6	17920.000	-63.65	22.12	-41.53	-25.00	-16.53	Horizontal
7	44.154	-63.00	25.99	-37.01	-25.00	-12.01	Vertical
8	50.461	-71.27	24.46	-46.81	-25.00	-21.81	Vertical
9	868.886	-81.03	44.75	-36.28	-25.00	-11.28	Vertical
10	5120.000	-60.45	11.55	-48.90	-25.00	-23.90	Vertical
11	7680.000	-61.15	14.16	-46.99	-25.00	-21.99	Vertical
12	17920.000	-63.91	22.12	-41.79	-25.00	-16.79	Vertical

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5G NR n7_ 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	42.931	-72.16	-2.10	-74.26	-25.00	-49.26	Horizontal
2	56.864	-65.22	-8.65	-73.87	-25.00	-48.87	Horizontal
3	925.613	-79.26	16.24	-63.02	-25.00	-38.02	Horizontal
4	5020.000	-60.15	11.38	-48.77	-25.00	-23.77	Horizontal
5	7530.000	-60.75	14.22	-46.53	-25.00	-21.53	Horizontal
6	17570.000	-63.81	21.00	-42.81	-25.00	-17.81	Horizontal
7	42.931	-68.18	-2.10	-70.28	-25.00	-45.28	Vertical
8	44.466	-64.29	-3.99	-68.28	-25.00	-43.28	Vertical
9	1000.000	-80.68	17.07	-63.61	-25.00	-38.61	Vertical
10	5020.000	-59.88	11.38	-48.50	-25.00	-23.50	Vertical
11	7530.000	-59.43	14.22	-45.21	-25.00	-20.21	Vertical
12	17570.000	-64.79	21.00	-43.79	-25.00	-18.79	Vertical
Middle Channel							
1	56.466	-63.74	-8.54	-72.28	-25.00	-47.28	Horizontal
2	906.304	-80.91	16.24	-64.67	-25.00	-39.67	Horizontal
3	1000.000	-80.97	17.07	-63.90	-25.00	-38.90	Horizontal
4	5070.000	-60.07	11.47	-48.60	-25.00	-23.60	Horizontal
5	7605.000	-61.30	14.19	-47.11	-25.00	-22.11	Horizontal
6	17745.000	-64.70	21.56	-43.14	-25.00	-18.14	Horizontal
7	42.931	-66.92	-2.10	-69.02	-25.00	-44.02	Vertical
8	44.154	-65.94	-3.98	-69.92	-25.00	-44.92	Vertical
9	992.997	-80.59	16.81	-63.78	-25.00	-38.78	Vertical
10	5070.000	-59.90	11.47	-48.43	-25.00	-23.43	Vertical
11	7605.000	-61.33	14.19	-47.14	-25.00	-22.14	Vertical
12	17745.000	-65.20	21.56	-43.64	-25.00	-18.64	Vertical
Highest Channel							
1	42.931	-70.36	-2.10	-72.46	-25.00	-47.46	Horizontal
2	912.695	-80.79	16.20	-64.59	-25.00	-39.59	Horizontal
3	986.044	-81.61	16.74	-64.87	-25.00	-39.87	Horizontal
4	5120.000	-60.64	11.55	-49.09	-25.00	-24.09	Horizontal
5	7680.000	-60.85	14.16	-46.69	-25.00	-21.69	Horizontal
6	17920.000	-63.39	22.12	-41.27	-25.00	-16.27	Horizontal
7	42.931	-66.41	-2.10	-68.51	-25.00	-43.51	Vertical
8	804.252	-79.65	14.06	-65.59	-25.00	-40.59	Vertical
9	925.613	-80.89	16.24	-64.65	-25.00	-39.65	Vertical
10	5120.000	-61.31	11.55	-49.76	-25.00	-24.76	Vertical
11	7680.000	-60.83	14.16	-46.67	-25.00	-21.67	Vertical
12	17920.000	-64.63	22.12	-42.51	-25.00	-17.51	Vertical

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

LTE Band 12_ 10 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	-68.93	25.99	-42.94	-13.00	-29.94	Horizontal
2	50.108	-68.33	24.50	-43.83	-13.00	-30.83	Horizontal
3	919.132	-80.69	45.27	-35.42	-13.00	-22.42	Horizontal
4	1408.000	-58.50	0.61	-57.89	-13.00	-44.89	Horizontal
5	2112.000	-60.74	5.33	-55.41	-13.00	-42.41	Horizontal
6	8448.000	-62.06	14.11	-47.95	-13.00	-34.95	Horizontal
7	44.154	-63.68	25.99	-37.69	-13.00	-24.69	Vertical
8	744.427	-80.48	42.29	-38.19	-13.00	-25.19	Vertical
9	919.132	-81.53	45.27	-36.26	-13.00	-23.26	Vertical
10	1408.000	-58.77	0.61	-58.16	-13.00	-45.16	Vertical
11	2112.000	-60.54	5.33	-55.21	-13.00	-42.21	Vertical
12	8448.000	-61.95	14.11	-47.84	-13.00	-34.84	Vertical
Middle Channel							
1	47.703	-68.32	25.15	-43.17	-13.00	-30.17	Horizontal
2	787.475	-80.75	43.08	-37.67	-13.00	-24.67	Horizontal
3	850.760	-81.01	44.25	-36.76	-13.00	-23.76	Horizontal
4	1415.000	-57.88	0.61	-57.27	-13.00	-44.27	Horizontal
5	2122.500	-60.28	5.36	-54.92	-13.00	-41.92	Horizontal
6	8490.000	-61.28	14.12	-47.16	-13.00	-34.16	Horizontal
7	44.154	-65.33	25.99	-39.34	-13.00	-26.34	Vertical
8	594.514	-79.63	40.23	-39.40	-13.00	-26.40	Vertical
9	912.695	-81.33	45.32	-36.01	-13.00	-23.01	Vertical
10	1415.000	-59.37	0.61	-58.76	-13.00	-45.76	Vertical
11	2122.500	-60.72	5.36	-55.36	-13.00	-42.36	Vertical
12	8490.000	-61.30	14.12	-47.18	-13.00	-34.18	Vertical
Highest Channel							
1	47.703	-68.57	25.15	-43.42	-13.00	-30.42	Horizontal
2	655.977	-79.89	41.08	-38.81	-13.00	-25.81	Horizontal
3	875.013	-80.82	44.37	-36.45	-13.00	-23.45	Horizontal
4	1422.000	-59.30	0.63	-58.67	-13.00	-45.67	Horizontal
5	2133.000	-60.57	5.39	-55.18	-13.00	-42.18	Horizontal
6	8532.000	-60.36	14.16	-46.20	-13.00	-33.20	Horizontal
7	44.154	-65.49	25.99	-39.50	-13.00	-26.50	Vertical
8	50.461	-70.61	24.46	-46.15	-13.00	-33.15	Vertical
9	821.387	-80.57	43.99	-36.58	-13.00	-23.58	Vertical
10	1422.000	-59.58	0.63	-58.95	-13.00	-45.95	Vertical
11	2133.000	-60.73	5.39	-55.34	-13.00	-42.34	Vertical
12	8532.000	-60.32	14.16	-46.16	-13.00	-33.16	Vertical

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5G NR n12_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	821.387	-86.90	43.99	-42.91	-13.00	-29.91	Horizontal
2	919.132	-86.24	45.27	-40.97	-13.00	-27.97	Horizontal
3	986.044	-86.21	45.67	-40.54	-13.00	-27.54	Horizontal
4	1408.000	-59.02	0.61	-58.41	-13.00	-45.41	Horizontal
5	2112.000	-62.03	5.33	-56.70	-13.00	-43.70	Horizontal
6	844.803	-86.58	44.32	-42.26	-13.00	-29.26	Vertical
7	919.132	-86.61	45.27	-41.34	-13.00	-28.34	Vertical
8	979.139	-85.73	45.47	-40.26	-13.00	-27.26	Vertical
9	1408.000	-59.71	0.61	-59.10	-13.00	-46.10	Vertical
10	2112.000	-62.86	5.33	-57.53	-13.00	-44.53	Vertical
Middle Channel							
1	821.387	-86.94	43.99	-42.95	-13.00	-29.95	Horizontal
2	919.132	-86.11	45.27	-40.84	-13.00	-27.84	Horizontal
3	992.997	-86.76	45.73	-41.03	-13.00	-28.03	Horizontal
4	1415.000	-54.41	0.61	-53.80	-13.00	-40.80	Horizontal
5	2122.500	-53.87	5.36	-48.51	-13.00	-35.51	Horizontal
6	906.304	-86.75	45.37	-41.38	-13.00	-28.38	Vertical
7	945.334	-86.27	45.26	-41.01	-13.00	-28.01	Vertical
8	972.283	-86.43	45.42	-41.01	-13.00	-28.01	Vertical
9	1415.000	-54.41	0.61	-53.80	-13.00	-40.80	Vertical
10	2122.500	-53.87	5.36	-48.51	-13.00	-35.51	Vertical
Highest Channel							
1	906.304	-87.28	45.37	-41.91	-13.00	-28.91	Horizontal
2	958.714	-86.09	45.27	-40.82	-13.00	-27.82	Horizontal
3	986.044	-86.07	45.67	-40.40	-13.00	-27.40	Horizontal
4	1422.000	-57.58	0.63	-56.95	-13.00	-43.95	Horizontal
5	2133.000	-58.12	5.39	-52.73	-13.00	-39.73	Horizontal
6	862.802	-86.53	44.29	-42.24	-13.00	-29.24	Vertical
7	925.613	-86.43	45.33	-41.10	-13.00	-28.10	Vertical
8	1000.000	-86.80	45.97	-40.83	-13.00	-27.83	Vertical
9	1422.000	-54.11	0.63	-53.48	-13.00	-40.48	Vertical
10	2133.000	-54.64	5.39	-49.25	-13.00	-36.25	Vertical

5.8.3 LTE Band 13 and 5G NR n13

LTE Band 13_ 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	44.154	-68.82	25.99	-42.83	-13.00	-29.83	Horizontal
2	47.703	-68.50	25.15	-43.35	-13.00	-30.35	Horizontal
3	793.028	-80.17	43.22	-36.95	-13.00	-23.95	Horizontal
4	1559-1610	-58.59	1.29	-57.30	-40.00	-17.30	Horizontal
5	2346.000	-59.85	5.93	-53.92	-13.00	-40.92	Horizontal
6	8602.000	-61.52	14.24	-47.28	-13.00	-34.28	Horizontal
7	44.154	-66.81	25.99	-40.82	-13.00	-27.82	Vertical
8	50.461	-70.28	24.46	-45.82	-13.00	-32.82	Vertical
9	887.398	-81.28	44.96	-36.32	-13.00	-23.32	Vertical
10	1559-1610	-58.63	1.29	-57.34	-40.00	-17.34	Vertical
11	2346.000	-60.49	5.93	-54.56	-13.00	-41.56	Vertical
12	8602.000	-61.38	14.24	-47.14	-13.00	-34.14	Vertical

5G NR n13_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	833.013	-86.67	44.06	-42.61	-13.00	-29.61	Horizontal
2	925.613	-86.92	45.33	-41.59	-13.00	-28.59	Horizontal
3	979.139	-85.82	45.47	-40.35	-13.00	-27.35	Horizontal
4	1559-1610	-55.35	1.29	-54.06	-40.00	-14.06	Horizontal
5	2346.000	-57.05	5.93	-51.12	-13.00	-38.12	Horizontal
6	856.760	-86.72	44.15	-42.57	-13.00	-29.57	Vertical
7	925.613	-85.45	45.33	-40.12	-13.00	-27.12	Vertical
8	992.997	-85.76	45.73	-40.03	-13.00	-27.03	Vertical
9	1559-1610	-55.01	1.29	-53.72	-40.00	-13.72	Vertical
10	2346.000	-55.91	5.93	-49.98	-13.00	-36.98	Vertical

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

5.8.4 LTE Band 14 and 5G NR n14

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB/m)	Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
LTE Band 14 / 10 MHz / QPSK_ Middle Channel							
1	50.461	-68.86	24.46	-44.40	-13.00	-31.40	Horizontal
2	754.963	-80.17	42.08	-38.09	-13.00	-25.09	Horizontal
3	919.132	-81.52	45.27	-36.25	-13.00	-23.25	Horizontal
4	1559-1610	-59.23	1.48	-57.75	-40.00	-17.75	Horizontal
5	2379.000	-60.25	6.02	-54.23	-13.00	-41.23	Horizontal
6	8723.000	-61.27	14.38	-46.89	-13.00	-33.89	Horizontal
7	44.154	-68.21	25.99	-42.22	-13.00	-29.22	Vertical
8	50.461	-70.76	24.46	-46.30	-13.00	-33.30	Vertical
9	809.924	-80.22	43.70	-36.52	-13.00	-23.52	Vertical
10	1559-1610	-60.26	1.48	-58.78	-40.00	-18.78	Vertical
11	2379.000	-60.02	6.02	-54.00	-13.00	-41.00	Vertical
12	8723.000	-60.92	14.38	-46.54	-13.00	-33.54	Vertical

5G NR n14_ 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	850.760	-87.06	44.25	-42.81	-13.00	-29.81	Horizontal
2	906.304	-86.77	45.37	-41.40	-13.00	-28.40	Horizontal
3	972.283	-86.61	45.42	-41.19	-13.00	-28.19	Horizontal
4	1559-1610	-59.60	1.48	-58.12	-40.00	-18.12	Horizontal
5	2379.000	-59.44	6.02	-53.42	-40.00	-13.42	Horizontal
6	856.760	-86.00	44.15	-41.85	-13.00	-28.85	Vertical
7	887.398	-86.59	44.96	-41.63	-13.00	-28.63	Vertical
8	965.474	-85.26	45.01	-40.25	-13.00	-27.25	Vertical
9	1559-1610	-58.95	1.48	-57.47	-40.00	-17.47	Vertical
10	2379.000	-61.34	6.02	-55.32	-40.00	-15.32	Vertical

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

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

LTE Band 25_ 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	-68.87	25.15	-43.72	-13.00	-30.72	Horizontal
2	50.461	-68.28	24.46	-43.82	-13.00	-30.82	Horizontal
3	744.427	-79.46	42.29	-37.17	-13.00	-24.17	Horizontal
4	3720.000	-60.77	11.06	-49.71	-13.00	-36.71	Horizontal
5	5580.000	-61.70	12.39	-49.31	-13.00	-36.31	Horizontal
6	16740.000	-62.90	19.72	-43.18	-13.00	-30.18	Horizontal
7	44.154	-67.72	25.99	-41.73	-13.00	-28.73	Vertical
8	50.461	-70.04	24.46	-45.58	-13.00	-32.58	Vertical
9	881.184	-80.27	44.54	-35.73	-13.00	-22.73	Vertical
10	3720.000	-61.48	11.06	-50.42	-13.00	-37.42	Vertical
11	5580.000	-61.91	12.39	-49.52	-13.00	-36.52	Vertical
12	16740.000	-62.04	19.72	-42.32	-13.00	-29.32	Vertical
Middle Channel							
1	47.703	-69.33	25.15	-44.18	-13.00	-31.18	Horizontal
2	50.461	-68.56	24.46	-44.10	-13.00	-31.10	Horizontal
3	850.760	-80.74	44.25	-36.49	-13.00	-23.49	Horizontal
4	3760.000	-61.51	11.30	-50.21	-13.00	-37.21	Horizontal
5	5640.000	-61.37	12.52	-48.85	-13.00	-35.85	Horizontal
6	16920.000	-62.44	19.77	-42.67	-13.00	-29.67	Horizontal
7	44.154	-65.44	25.99	-39.45	-13.00	-26.45	Vertical
8	50.108	-71.76	24.50	-47.26	-13.00	-34.26	Vertical
9	850.760	-80.58	44.25	-36.33	-13.00	-23.33	Vertical
10	3760.000	-61.23	11.30	-49.93	-13.00	-36.93	Vertical
11	5640.000	-61.22	12.52	-48.70	-13.00	-35.70	Vertical
12	16920.000	-61.72	19.77	-41.95	-13.00	-28.95	Vertical
Highest Channel							
1	44.154	-70.17	25.99	-44.18	-13.00	-31.18	Horizontal
2	50.461	-69.10	24.46	-44.64	-13.00	-31.64	Horizontal
3	809.924	-80.16	43.70	-36.46	-13.00	-23.46	Horizontal
4	3810.000	-62.91	11.59	-51.32	-13.00	-38.32	Horizontal
5	5715.000	-61.85	12.68	-49.17	-13.00	-36.17	Horizontal
6	17145.000	-61.63	20.08	-41.55	-13.00	-28.55	Horizontal
7	44.154	-66.49	25.99	-40.50	-13.00	-27.50	Vertical
8	565.978	-79.48	39.41	-40.07	-13.00	-27.07	Vertical
9	804.252	-80.95	43.45	-37.50	-13.00	-24.50	Vertical
10	3810.000	-63.03	11.59	-51.44	-13.00	-38.44	Vertical
11	5715.000	-61.72	12.68	-49.04	-13.00	-36.04	Vertical
12	17145.000	-62.33	20.08	-42.25	-13.00	-29.25	Vertical

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5G NR n25_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	56.071	-65.39	-8.43	-73.82	-13.00	-60.82	Horizontal
2	925.613	-80.49	16.24	-64.25	-13.00	-51.25	Horizontal
3	979.139	-80.47	16.52	-63.95	-13.00	-50.95	Horizontal
4	3720.000	-61.64	11.06	-50.58	-13.00	-37.58	Horizontal
5	5580.000	-62.43	12.39	-50.04	-13.00	-37.04	Horizontal
6	16740.000	-61.83	19.72	-42.11	-13.00	-29.11	Horizontal
7	44.154	-65.75	-3.98	-69.73	-13.00	-56.73	Vertical
8	925.613	-80.54	16.24	-64.30	-13.00	-51.30	Vertical
9	972.283	-80.93	16.45	-64.48	-13.00	-51.48	Vertical
10	3720.000	-61.52	11.06	-50.46	-13.00	-37.46	Vertical
11	5580.000	-62.26	12.39	-49.87	-13.00	-36.87	Vertical
12	16740.000	-62.82	19.72	-43.10	-13.00	-30.10	Vertical
Middle Channel							
1	56.071	-64.69	-8.43	-73.12	-13.00	-60.12	Horizontal
2	850.760	-79.35	14.98	-64.37	-13.00	-51.37	Horizontal
3	992.997	-81.21	16.81	-64.40	-13.00	-51.40	Horizontal
4	3765.000	-60.84	11.33	-49.51	-13.00	-36.51	Horizontal
5	5647.500	-61.68	12.54	-49.14	-13.00	-36.14	Horizontal
6	16942.500	-62.18	19.78	-42.40	-13.00	-29.40	Horizontal
7	44.154	-63.26	-3.98	-67.24	-13.00	-54.24	Vertical
8	912.695	-80.67	16.20	-64.47	-13.00	-51.47	Vertical
9	952.000	-79.86	16.19	-63.67	-13.00	-50.67	Vertical
10	3765.000	-61.63	11.33	-50.30	-13.00	-37.30	Vertical
11	5647.500	-61.89	12.54	-49.35	-13.00	-36.35	Vertical
12	16942.500	-62.69	19.78	-42.91	-13.00	-29.91	Vertical
Highest Channel							
1	56.466	-64.22	-8.54	-72.76	-13.00	-59.76	Horizontal
2	893.656	-80.47	15.78	-64.69	-13.00	-51.69	Horizontal
3	958.714	-81.06	16.27	-64.79	-13.00	-51.79	Horizontal
4	3810.000	-63.48	11.59	-51.89	-13.00	-38.89	Horizontal
5	5715.000	-61.40	12.68	-48.72	-13.00	-35.72	Horizontal
6	17145.000	-62.12	20.08	-42.04	-13.00	-29.04	Horizontal
7	44.154	-61.12	-3.98	-65.10	-13.00	-52.10	Vertical
8	887.398	-80.49	15.78	-64.71	-13.00	-51.71	Vertical
9	1000.000	-81.19	17.07	-64.12	-13.00	-51.12	Vertical
10	3810.000	-63.47	11.59	-51.88	-13.00	-38.88	Vertical
11	5715.000	-62.83	12.68	-50.15	-13.00	-37.15	Vertical
12	17145.000	-61.98	20.08	-41.90	-13.00	-28.90	Vertical

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5.8.6 LTE Band 26 and 5G NR n26_Part 90S

LTE Band 26_ 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	44.154	-70.32	25.99	-44.33	-13.00	-31.33	Horizontal
2	50.461	-68.18	24.46	-43.72	-13.00	-30.72	Horizontal
3	689.051	-80.20	41.46	-38.74	-13.00	-25.74	Horizontal
4	1638.000	-59.61	1.93	-57.68	-13.00	-44.68	Horizontal
5	2457.000	-59.90	6.22	-53.68	-13.00	-40.68	Horizontal
6	8190.000	-61.04	14.07	-46.97	-13.00	-33.97	Horizontal
7	44.154	-66.09	25.99	-40.10	-13.00	-27.10	Vertical
8	50.461	-71.17	24.46	-46.71	-13.00	-33.71	Vertical
9	833.013	-81.42	44.06	-37.36	-13.00	-24.36	Vertical
10	1638.000	-59.20	1.93	-57.27	-13.00	-44.27	Vertical
11	2457.000	-59.12	6.22	-52.90	-13.00	-39.90	Vertical
12	8190.000	-61.05	14.07	-46.98	-13.00	-33.98	Vertical

5G NR n26_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	893.656	-86.61	44.95	-41.66	-13.00	-28.66	Horizontal
2	952.000	-86.49	45.21	-41.28	-13.00	-28.28	Horizontal
3	1000.000	-86.84	45.97	-40.87	-13.00	-27.87	Horizontal
4	1638.000	-56.07	1.93	-54.14	-13.00	-41.14	Horizontal
5	2457.000	-56.46	6.22	-50.24	-13.00	-37.24	Horizontal
6	899.958	-86.89	45.27	-41.62	-13.00	-28.62	Vertical
7	932.141	-85.93	44.98	-40.95	-13.00	-27.95	Vertical
8	992.997	-86.82	45.73	-41.09	-13.00	-28.09	Vertical
9	1638.000	-56.15	1.93	-54.22	-13.00	-41.22	Vertical
10	2457.000	-55.97	6.22	-49.75	-13.00	-36.75	Vertical

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

LTE Band 26_ 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	44.154	-69.12	25.99	-43.13	-13.00	-30.13	Horizontal
2	708.694	-79.82	41.95	-37.87	-13.00	-24.87	Horizontal
3	850.760	-80.87	44.25	-36.62	-13.00	-23.62	Horizontal
4	1663.000	-59.65	2.14	-57.51	-13.00	-44.51	Horizontal
5	2494.500	-59.68	6.32	-53.36	-13.00	-40.36	Horizontal
6	8315.000	-62.33	14.09	-48.24	-13.00	-35.24	Horizontal
7	44.154	-64.48	25.99	-38.49	-13.00	-25.49	Vertical
8	50.461	-70.90	24.46	-46.44	-13.00	-33.44	Vertical
9	868.886	-80.46	44.75	-35.71	-13.00	-22.71	Vertical
10	1663.000	-59.91	2.14	-57.77	-13.00	-44.77	Vertical
11	2494.500	-60.08	6.32	-53.76	-13.00	-40.76	Vertical
12	8315.000	-62.65	14.09	-48.56	-13.00	-35.56	Vertical
Middle Channel							
1	44.154	-70.47	25.99	-44.48	-13.00	-31.48	Horizontal
2	50.108	-69.07	24.50	-44.57	-13.00	-31.57	Horizontal
3	749.676	-79.60	42.15	-37.45	-13.00	-24.45	Horizontal
4	1673.000	-60.52	2.22	-58.30	-13.00	-45.30	Horizontal
5	2509.500	-60.61	6.38	-54.23	-13.00	-41.23	Horizontal
6	8365.000	-62.39	14.10	-48.29	-13.00	-35.29	Horizontal
7	44.154	-65.50	25.99	-39.51	-13.00	-26.51	Vertical
8	50.461	-71.65	24.46	-47.19	-13.00	-34.19	Vertical
9	781.961	-79.46	42.83	-36.63	-13.00	-23.63	Vertical
10	1673.000	-59.69	2.22	-57.47	-13.00	-44.47	Vertical
11	2509.500	-59.80	6.38	-53.42	-13.00	-40.42	Vertical
12	8365.000	-62.01	14.10	-47.91	-13.00	-34.91	Vertical
Highest Channel							
1	50.108	-68.28	24.50	-43.78	-13.00	-30.78	Horizontal
2	491.770	-78.55	38.13	-40.42	-13.00	-27.42	Horizontal
3	899.958	-81.09	45.27	-35.82	-13.00	-22.82	Horizontal
4	1683.000	-60.33	2.31	-58.02	-13.00	-45.02	Horizontal
5	2524.500	-59.85	6.43	-53.42	-13.00	-40.42	Horizontal
6	8415.000	-61.13	14.10	-47.03	-13.00	-34.03	Horizontal
7	44.154	-65.58	25.99	-39.59	-13.00	-26.59	Vertical
8	50.461	-71.49	24.46	-47.03	-13.00	-34.03	Vertical
9	734.037	-79.47	42.20	-37.27	-13.00	-24.27	Vertical
10	1683.000	-59.67	2.31	-57.36	-13.00	-44.36	Vertical
11	2524.500	-60.93	6.43	-54.50	-13.00	-41.50	Vertical
12	8415.000	-61.50	14.10	-47.40	-13.00	-34.40	Vertical

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5G NR n26_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	881.184	-86.43	44.54	-41.89	-13.00	-28.89	Horizontal
2	932.141	-86.09	44.98	-41.11	-13.00	-28.11	Horizontal
3	1000.000	-86.24	45.97	-40.27	-13.00	-27.27	Horizontal
4	1668.000	-56.35	2.19	-54.16	-13.00	-41.16	Horizontal
5	2502.000	-56.67	6.35	-50.32	-13.00	-37.32	Horizontal
6	798.620	-86.30	43.25	-43.05	-13.00	-30.05	Vertical
7	945.334	-85.79	45.26	-40.53	-13.00	-27.53	Vertical
8	972.283	-86.39	45.42	-40.97	-13.00	-27.97	Vertical
9	1668.000	-56.01	2.19	-53.82	-13.00	-40.82	Vertical
10	2502.000	-55.98	6.35	-49.63	-13.00	-36.63	Vertical
Middle Channel							
1	739.214	-85.95	42.11	-43.84	-13.00	-30.84	Horizontal
2	912.695	-85.66	45.32	-40.34	-13.00	-27.34	Horizontal
3	1000.000	-86.56	45.97	-40.59	-13.00	-27.59	Horizontal
4	1673.000	-56.40	2.22	-54.18	-13.00	-41.18	Horizontal
5	2509.500	-57.79	6.38	-51.41	-13.00	-38.41	Horizontal
6	798.620	-86.89	43.25	-43.64	-13.00	-30.64	Vertical
7	925.613	-86.62	45.33	-41.29	-13.00	-28.29	Vertical
8	992.997	-86.10	45.73	-40.37	-13.00	-27.37	Vertical
9	1673.000	-55.73	2.22	-53.51	-13.00	-40.51	Vertical
10	2509.500	-57.72	6.38	-51.34	-13.00	-38.34	Vertical
Highest Channel							
1	804.252	-86.71	43.45	-43.26	-13.00	-30.26	Horizontal
2	912.695	-86.08	45.32	-40.76	-13.00	-27.76	Horizontal
3	1000.000	-87.01	45.97	-41.04	-13.00	-28.04	Horizontal
4	1678.000	-56.43	2.26	-54.17	-13.00	-41.17	Horizontal
5	2517.000	-57.00	6.41	-50.59	-13.00	-37.59	Horizontal
6	809.924	-86.87	43.70	-43.17	-13.00	-30.17	Vertical
7	925.613	-86.56	45.33	-41.23	-13.00	-28.23	Vertical
8	979.139	-86.54	45.47	-41.07	-13.00	-28.07	Vertical
9	1678.000	-55.98	2.26	-53.72	-13.00	-40.72	Vertical
10	2517.000	-57.26	6.41	-50.85	-13.00	-37.85	Vertical

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

LTE Band 41_ 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	-69.09	25.99	-43.10	-25.00	-18.10	Horizontal
2	516.565	-78.19	38.84	-39.35	-25.00	-14.35	Horizontal
3	833.013	-80.98	44.06	-36.92	-25.00	-11.92	Horizontal
4	5012.000	-60.92	11.36	-49.56	-25.00	-24.56	Horizontal
5	7518.000	-59.71	14.22	-45.49	-25.00	-20.49	Horizontal
6	17542.000	-64.36	20.91	-43.45	-25.00	-18.45	Horizontal
7	44.154	-65.33	25.99	-39.34	-25.00	-14.34	Vertical
8	70.705	-61.03	20.62	-40.41	-25.00	-15.41	Vertical
9	781.961	-79.93	42.83	-37.10	-25.00	-12.10	Vertical
10	5012.000	-61.79	11.36	-50.43	-25.00	-25.43	Vertical
11	7518.000	-59.95	14.22	-45.73	-25.00	-20.73	Vertical
12	17542.000	-64.05	20.91	-43.14	-25.00	-18.14	Vertical
Middle Channel							
1	44.154	-69.10	25.99	-43.11	-25.00	-18.11	Horizontal
2	50.461	-68.56	24.46	-44.10	-25.00	-19.10	Horizontal
3	899.958	-81.01	45.27	-35.74	-25.00	-10.74	Horizontal
4	5186.000	-60.87	11.67	-49.20	-25.00	-24.20	Horizontal
5	7779.000	-60.25	14.12	-46.13	-25.00	-21.13	Horizontal
6	15558.000	-63.54	20.37	-43.17	-25.00	-18.17	Horizontal
7	44.154	-65.73	25.99	-39.74	-25.00	-14.74	Vertical
8	50.461	-71.67	24.46	-47.21	-25.00	-22.21	Vertical
9	919.132	-81.51	45.27	-36.24	-25.00	-11.24	Vertical
10	5186.000	-60.87	11.67	-49.20	-25.00	-24.20	Vertical
11	7779.000	-59.70	14.12	-45.58	-25.00	-20.58	Vertical
12	15558.000	-64.07	20.37	-43.70	-25.00	-18.70	Vertical
Highest Channel							
1	44.154	-69.67	25.99	-43.68	-25.00	-18.68	Horizontal
2	50.108	-68.37	24.50	-43.87	-25.00	-18.87	Horizontal
3	881.184	-80.50	44.54	-35.96	-25.00	-10.96	Horizontal
4	5360.000	-62.13	11.97	-50.16	-25.00	-25.16	Horizontal
5	8040.000	-60.74	14.04	-46.70	-25.00	-21.70	Horizontal
6	16080.000	-62.92	19.50	-43.42	-25.00	-18.42	Horizontal
7	44.154	-64.46	25.99	-38.47	-25.00	-13.47	Vertical
8	50.461	-71.39	24.46	-46.93	-25.00	-21.93	Vertical
9	912.695	-81.14	45.32	-35.82	-25.00	-10.82	Vertical
10	5360.000	-61.85	11.97	-49.88	-25.00	-24.88	Vertical
11	8040.000	-62.19	14.04	-48.15	-25.00	-23.15	Vertical
12	16080.000	-63.75	19.50	-44.25	-25.00	-19.25	Vertical

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5G NR n41_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	881.184	-86.43	44.54	-41.89	-25.00	-16.89	Horizontal
2	932.141	-86.09	44.98	-41.11	-25.00	-16.11	Horizontal
3	1000.000	-86.24	45.97	-40.27	-25.00	-15.27	Horizontal
4	5092.020	-61.21	11.50	-49.71	-25.00	-24.71	Horizontal
5	7638.030	-60.98	14.18	-46.80	-25.00	-21.80	Horizontal
6	17822.070	-65.48	21.81	-43.67	-25.00	-18.67	Horizontal
7	798.620	-86.30	43.25	-43.05	-25.00	-18.05	Vertical
8	945.334	-85.79	45.26	-40.53	-25.00	-15.53	Vertical
9	972.283	-86.39	45.42	-40.97	-25.00	-15.97	Vertical
10	5092.020	-61.42	11.50	-49.92	-25.00	-24.92	Vertical
11	7638.030	-61.01	14.18	-46.83	-25.00	-21.83	Vertical
12	17822.070	-65.76	21.81	-43.95	-25.00	-18.95	Vertical
Middle Channel							
1	739.214	-85.95	42.11	-43.84	-25.00	-18.84	Horizontal
2	912.695	-85.66	45.32	-40.34	-25.00	-15.34	Horizontal
3	1000.000	-86.56	45.97	-40.59	-25.00	-15.59	Horizontal
4	5185.980	-62.67	11.67	-51.00	-25.00	-26.00	Horizontal
5	7778.970	-60.90	14.12	-46.78	-25.00	-21.78	Horizontal
6	15557.940	-63.64	20.37	-43.27	-25.00	-18.27	Horizontal
7	798.620	-86.89	43.25	-43.64	-25.00	-18.64	Vertical
8	925.613	-86.62	45.33	-41.29	-25.00	-16.29	Vertical
9	992.997	-86.10	45.73	-40.37	-25.00	-15.37	Vertical
10	5185.980	-62.98	11.67	-51.31	-25.00	-26.31	Vertical
11	7778.970	-60.94	14.12	-46.82	-25.00	-21.82	Vertical
12	15557.940	-62.55	20.37	-42.18	-25.00	-17.18	Vertical
Highest Channel							
1	804.252	-86.71	43.45	-43.26	-25.00	-18.26	Horizontal
2	912.695	-86.08	45.32	-40.76	-25.00	-15.76	Horizontal
3	1000.000	-87.01	45.97	-41.04	-25.00	-16.04	Horizontal
4	5280.000	-64.62	11.83	-52.79	-25.00	-27.79	Horizontal
5	7920.000	-61.05	14.07	-46.98	-25.00	-21.98	Horizontal
6	15840.000	-64.10	19.79	-44.31	-25.00	-19.31	Horizontal
7	809.924	-86.87	43.70	-43.17	-25.00	-18.17	Vertical
8	925.613	-86.56	45.33	-41.23	-25.00	-16.23	Vertical
9	979.139	-86.54	45.47	-41.07	-25.00	-16.07	Vertical
10	5280.000	-64.21	11.83	-52.38	-25.00	-27.38	Vertical
11	7920.000	-61.49	14.07	-47.42	-25.00	-22.42	Vertical
12	15840.000	-64.27	19.79	-44.48	-25.00	-19.48	Vertical

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

LTE Band 66_ 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	42.630	-72.75	28.11	-44.64	-13.00	-31.64	Horizontal
2	47.703	-68.38	25.15	-43.23	-13.00	-30.23	Horizontal
3	925.613	-80.60	45.33	-35.27	-13.00	-22.27	Horizontal
4	3440.000	-60.69	9.61	-51.08	-13.00	-38.08	Horizontal
5	5160.000	-63.21	11.62	-51.59	-13.00	-38.59	Horizontal
6	17200.000	-62.56	20.19	-42.37	-13.00	-29.37	Horizontal
7	44.154	-65.36	25.99	-39.37	-13.00	-26.37	Vertical
8	50.461	-71.37	24.46	-46.91	-13.00	-33.91	Vertical
9	912.695	-82.25	45.32	-36.93	-13.00	-23.93	Vertical
10	3440.000	-60.69	9.61	-51.08	-13.00	-38.08	Vertical
11	5160.000	-62.38	11.62	-50.76	-13.00	-37.76	Vertical
12	17200.000	-63.20	20.19	-43.01	-13.00	-30.01	Vertical
Middle Channel							
1	44.154	-70.10	25.99	-44.11	-13.00	-31.11	Horizontal
2	50.461	-67.85	24.46	-43.39	-13.00	-30.39	Horizontal
3	881.184	-80.80	44.54	-36.26	-13.00	-23.26	Horizontal
4	3490.000	-62.09	9.74	-52.35	-13.00	-39.35	Horizontal
5	5235.000	-62.24	11.76	-50.48	-13.00	-37.48	Horizontal
6	17450.000	-63.46	20.68	-42.78	-13.00	-29.78	Horizontal
7	44.154	-67.25	25.99	-41.26	-13.00	-28.26	Vertical
8	665.261	-78.27	41.13	-37.14	-13.00	-24.14	Vertical
9	875.013	-80.80	44.37	-36.43	-13.00	-23.43	Vertical
10	3490.000	-62.30	9.74	-52.56	-13.00	-39.56	Vertical
11	5235.000	-62.29	11.76	-50.53	-13.00	-37.53	Vertical
12	17450.000	-64.46	20.68	-43.78	-13.00	-30.78	Vertical
Highest Channel							
1	47.703	-68.58	25.15	-43.43	-13.00	-30.43	Horizontal
2	615.774	-79.89	40.66	-39.23	-13.00	-26.23	Horizontal
3	862.802	-79.87	44.29	-35.58	-13.00	-22.58	Horizontal
4	3540.000	-63.02	10.01	-53.01	-13.00	-40.01	Horizontal
5	5310.000	-62.41	11.88	-50.53	-13.00	-37.53	Horizontal
6	17700.000	-66.59	21.42	-45.17	-13.00	-32.17	Horizontal
7	44.154	-64.43	25.99	-38.44	-13.00	-25.44	Vertical
8	734.037	-80.24	42.20	-38.04	-13.00	-25.04	Vertical
9	833.013	-80.91	44.06	-36.85	-13.00	-23.85	Vertical
10	3540.000	-61.77	10.01	-51.76	-13.00	-38.76	Vertical
11	5310.000	-61.22	11.88	-49.34	-13.00	-36.34	Vertical
12	17700.000	-65.80	21.42	-44.38	-13.00	-31.38	Vertical

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5G NR n66_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	57.669	-65.17	-9.07	-74.24	-13.00	-61.24	Horizontal
2	906.304	-81.23	16.24	-64.99	-13.00	-51.99	Horizontal
3	986.044	-81.27	16.74	-64.53	-13.00	-51.53	Horizontal
4	3440.000	-57.87	9.61	-48.26	-13.00	-35.26	Horizontal
5	5160.000	-63.26	11.62	-51.64	-13.00	-38.64	Horizontal
6	17200.000	-63.77	20.19	-43.58	-13.00	-30.58	Horizontal
7	44.466	-64.80	-3.99	-68.79	-13.00	-55.79	Vertical
8	925.613	-81.10	16.24	-64.86	-13.00	-51.86	Vertical
9	1000.000	-81.04	17.07	-63.97	-13.00	-50.97	Vertical
10	3440.000	-57.89	9.61	-48.28	-13.00	-35.28	Vertical
11	5160.000	-63.62	11.62	-52.00	-13.00	-39.00	Vertical
12	17200.000	-63.88	20.19	-43.69	-13.00	-30.69	Vertical
Middle Channel							
1	56.071	-64.13	-8.43	-72.56	-13.00	-59.56	Horizontal
2	906.304	-80.14	16.24	-63.90	-13.00	-50.90	Horizontal
3	965.474	-80.40	16.02	-64.38	-13.00	-51.38	Horizontal
4	3490.000	-60.58	9.74	-50.84	-13.00	-37.84	Horizontal
5	5235.000	-62.56	11.76	-50.80	-13.00	-37.80	Horizontal
6	17450.000	-64.41	20.68	-43.73	-13.00	-30.73	Horizontal
7	44.154	-62.32	-3.98	-66.30	-13.00	-53.30	Vertical
8	906.304	-81.15	16.24	-64.91	-13.00	-51.91	Vertical
9	972.283	-80.37	16.45	-63.92	-13.00	-50.92	Vertical
10	3490.000	-60.65	9.74	-50.91	-13.00	-37.91	Vertical
11	5235.000	-62.55	11.76	-50.79	-13.00	-37.79	Vertical
12	17450.000	-64.87	20.68	-44.19	-13.00	-31.19	Vertical
Highest Channel							
1	56.466	-64.62	-8.54	-73.16	-13.00	-60.16	Horizontal
2	912.695	-79.31	16.20	-63.11	-13.00	-50.11	Horizontal
3	1000.000	-81.21	17.07	-64.14	-13.00	-51.14	Horizontal
4	3540.000	-60.52	10.01	-50.51	-13.00	-37.51	Horizontal
5	5310.000	-62.31	11.88	-50.43	-13.00	-37.43	Horizontal
6	17770.000	-65.30	21.64	-43.66	-13.00	-30.66	Horizontal
7	44.154	-61.35	-3.98	-65.33	-13.00	-52.33	Vertical
8	868.886	-79.41	15.52	-63.89	-13.00	-50.89	Vertical
9	979.139	-80.95	16.52	-64.43	-13.00	-51.43	Vertical
10	3540.000	-59.76	10.01	-49.75	-13.00	-36.75	Vertical
11	5310.000	-62.14	11.88	-50.26	-13.00	-37.26	Vertical
12	17770.000	-65.13	21.64	-43.49	-13.00	-30.49	Vertical

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5.8.10 LTE Band 71 and 5G NR n71

LTE Band 71_ 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	-69.48	25.15	-44.33	-13.00	-31.33	Horizontal
2	793.028	-80.37	43.22	-37.15	-13.00	-24.15	Horizontal
3	899.958	-81.18	45.27	-35.91	-13.00	-22.91	Horizontal
4	1346.000	-57.49	0.52	-56.97	-13.00	-43.97	Horizontal
5	2019.000	-60.39	5.09	-55.30	-13.00	-42.30	Horizontal
6	8749.000	-60.06	14.40	-45.66	-13.00	-32.66	Horizontal
7	44.154	-65.85	25.99	-39.86	-13.00	-26.86	Vertical
8	815.635	-79.84	43.58	-36.26	-13.00	-23.26	Vertical
9	925.613	-80.95	45.33	-35.62	-13.00	-22.62	Vertical
10	1346.000	-56.64	0.52	-56.12	-13.00	-43.12	Vertical
11	2019.000	-60.94	5.09	-55.85	-13.00	-42.85	Vertical
12	8749.000	-60.51	14.40	-46.11	-13.00	-33.11	Vertical
Middle Channel							
1	50.461	-69.17	24.46	-44.71	-13.00	-31.71	Horizontal
2	868.886	-80.45	44.75	-35.70	-13.00	-22.70	Horizontal
3	972.283	-81.63	45.42	-36.21	-13.00	-23.21	Horizontal
4	1361.000	-56.44	0.54	-55.90	-13.00	-42.90	Horizontal
5	2041.500	-59.40	5.15	-54.25	-13.00	-41.25	Horizontal
6	8846.500	-61.91	14.52	-47.39	-13.00	-34.39	Horizontal
7	44.154	-65.34	25.99	-39.35	-13.00	-26.35	Vertical
8	734.037	-79.97	42.20	-37.77	-13.00	-24.77	Vertical
9	906.304	-81.57	45.37	-36.20	-13.00	-23.20	Vertical
10	1361.000	-56.91	0.54	-56.37	-13.00	-43.37	Vertical
11	2041.500	-57.97	5.15	-52.82	-13.00	-39.82	Vertical
12	8846.500	-61.66	14.52	-47.14	-13.00	-34.14	Vertical
Highest Channel							
1	47.703	-69.59	25.15	-44.44	-13.00	-31.44	Horizontal
2	679.435	-79.60	41.27	-38.33	-13.00	-25.33	Horizontal
3	875.013	-80.41	44.37	-36.04	-13.00	-23.04	Horizontal
4	1381.000	-57.43	0.56	-56.87	-13.00	-43.87	Horizontal
5	2071.500	-61.33	5.23	-56.10	-13.00	-43.10	Horizontal
6	8976.500	-61.33	14.67	-46.66	-13.00	-33.66	Horizontal
7	44.154	-66.54	25.99	-40.55	-13.00	-27.55	Vertical
8	723.793	-79.98	42.03	-37.95	-13.00	-24.95	Vertical
9	899.958	-81.34	45.27	-36.07	-13.00	-23.07	Vertical
10	1381.000	-57.88	0.56	-57.32	-13.00	-44.32	Vertical
11	2071.500	-60.30	5.23	-55.07	-13.00	-42.07	Vertical
12	8976.500	-61.07	14.67	-46.40	-13.00	-33.40	Vertical

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5G NR n71_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	838.887	-86.64	43.96	-42.68	-13.00	-29.68	Horizontal
2	899.958	-86.67	45.27	-41.40	-13.00	-28.40	Horizontal
3	992.997	-86.76	45.73	-41.03	-13.00	-28.03	Horizontal
4	1346.000	-58.41	0.52	-57.89	-13.00	-44.89	Horizontal
5	2019.000	-62.59	5.09	-57.50	-13.00	-44.50	Horizontal
6	844.803	-87.10	44.32	-42.78	-13.00	-29.78	Vertical
7	919.132	-85.99	45.27	-40.72	-13.00	-27.72	Vertical
8	1000.000	-86.96	45.97	-40.99	-13.00	-27.99	Vertical
9	1346.000	-58.45	0.52	-57.93	-13.00	-44.93	Vertical
10	2019.000	-62.53	5.09	-57.44	-13.00	-44.44	Vertical
Middle Channel							
1	776.485	-86.69	42.50	-44.19	-13.00	-31.19	Horizontal
2	868.886	-86.95	44.75	-42.20	-13.00	-29.20	Horizontal
3	972.283	-86.22	45.42	-40.80	-13.00	-27.80	Horizontal
4	1361.000	-57.54	0.54	-57.00	-13.00	-44.00	Horizontal
5	2041.500	-66.32	5.15	-61.17	-13.00	-48.17	Horizontal
6	838.887	-85.95	43.96	-41.99	-13.00	-28.99	Vertical
7	912.695	-86.44	45.32	-41.12	-13.00	-28.12	Vertical
8	958.714	-86.07	45.27	-40.80	-13.00	-27.80	Vertical
9	1361.000	-57.44	0.54	-56.90	-13.00	-43.90	Vertical
10	2041.500	-66.18	5.15	-61.03	-13.00	-48.03	Vertical
Highest Channel							
1	868.886	-87.11	44.75	-42.36	-13.00	-29.36	Horizontal
2	925.613	-85.66	45.33	-40.33	-13.00	-27.33	Horizontal
3	992.997	-86.43	45.73	-40.70	-13.00	-27.70	Horizontal
4	1376.000	-58.57	0.56	-58.01	-13.00	-45.01	Horizontal
5	2064.000	-62.46	5.21	-57.25	-13.00	-44.25	Horizontal
6	798.620	-86.65	43.25	-43.40	-13.00	-30.40	Vertical
7	850.760	-87.09	44.25	-42.84	-13.00	-29.84	Vertical
8	972.283	-86.43	45.42	-41.01	-13.00	-28.01	Vertical
9	1376.000	-58.50	0.56	-57.94	-13.00	-44.94	Vertical
10	2064.000	-63.92	5.21	-58.71	-13.00	-45.71	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 or E7515B with Frequency Error measurement capability.
 - a) Temp. = -30° to $+50^{\circ}\text{C}$
 - b) Voltage = low voltage, 3.4 Vdc, Normal, 3.87 Vdc and High voltage, 4.38 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 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 S

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 ***

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