

CERTIFICATION TEST REPORT

Report Number. : 4790841154-E4V2

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Model : SM-X518U

FCC ID : A3LSMX518U

EUT Description : WCDMA/LTE 5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax,
Digitizer

Test Standard(s) : FCC CFR47 PART 27 SUBPART D,F,H,L,M,N,O,Q

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Revision History

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V1	2023-07-19	Initial issue	Yeonghwan Hong
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: WCDMA/LTE 5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax, Digitizer.
MODEL NUMBER: SM-X518U
SERIAL NUMBER: R32W500QLJV, R32W500QM6Y, R32W500QL9H, R32W6007DCE (CONDUCTED);
R32W500QQVJ, R32W500QT0P, R32W500QSXX, R32W5012GSL, R32W5012G0V, R32W60088KE (RADIATED);
DATE TESTED: 2023-05-17 - 2023-07-14;

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 27 D,F,H,L,M,N,O,Q	Complies

UL KOREA LTD. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL KOREA LTD. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and Modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL KOREA LTD. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL KOREA LTD. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL KOREA LTD. By:

Tested By:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

Yeonghwan Hong
Suwon Lab Engineer
UL KOREA LTD.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 27.
3. ANSI TIA-603-E, 2016
4. ANSI C63.26, 2015
5. KDB 971168 D01 Power Meas License Digital Systems v03r01

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
<input checked="" type="checkbox"/>	Chamber 1(3m semi-anechoic chamber)
<input checked="" type="checkbox"/>	Chamber 2(3m semi-anechoic chamber)
<input type="checkbox"/>	Chamber 3(3m semi-anechoic chamber)
<input checked="" type="checkbox"/>	Chamber 4(3m Full-anechoic chamber)
<input type="checkbox"/>	Chamber 5(3m Full-anechoic chamber)

UL KOREA LTD. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$EIRP = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBi)}$

$ERP = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)}$

(Path loss = Signal generator output – PSA reading with substitution antenna)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	2.80 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.92 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.06 dB
Radiated Disturbance, 18 GHz to 40 GHz	6.02 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Procedure 2, Clause 4.4.3 in IEC Guide 115:2021.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a WCDMA/LTE 5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax, Digitizer.
 This test report addresses the WWAN operational Mode.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum average radiated ERP / EIRP output powers as follows:

Radiated samples were set to a higher power than conducted resulting in radiated ERP greater than conducted measurements.

WCDMA

FCC Part 27						
Band	Frequency Range [MHz]	Modulation	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 4	1710.00 ~ 1755.00	Rel. 99	23.76	237.68	26.09	406.44
		HSDPA	23.15	206.54	25.57	360.58

LTE Band 7

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 7	2510.00 ~ 2560.00	20	QPSK	24.71	295.80	24.05	254.10
			16QAM	24.00	251.19	23.12	205.12
			64QAM	22.70	186.21		
			256QAM	19.62	91.62		
	2507.50 ~ 2562.50	15	QPSK	24.48	280.54	24.14	259.42
			16QAM	23.74	236.59	23.16	207.01
			64QAM	22.35	171.79		
			256QAM	19.25	84.14		
	2505.00 ~ 2565.00	10	QPSK	24.53	283.79	24.04	253.51
			16QAM	23.57	227.51	23.09	203.70
			64QAM	22.57	180.72		
			256QAM	19.57	90.57		
2502.50 ~ 2567.50	5	QPSK	24.35	272.27	23.96	248.89	
		16QAM	23.61	229.61	23.02	200.45	
		64QAM	22.89	194.54			
		256QAM	19.10	81.28			

LTE Band 7 (ANT SUB2)

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 7	2510.00 ~ 2560.00	20	QPSK	23.50	223.87	21.69	147.57
			16QAM	22.86	193.20	20.68	116.95
			64QAM	21.52	141.91		
			256QAM	18.69	73.96		
	2507.50 ~ 2562.50	15	QPSK	23.41	219.28		
			16QAM	22.51	178.24		
			64QAM	21.74	149.28		
			256QAM	18.69	73.96		
	2505.00 ~ 2565.00	10	QPSK	23.37	217.27		
			16QAM	22.49	177.42		
			64QAM	21.61	144.88		
			256QAM	18.76	75.16		
	2502.50 ~ 2567.50	5	QPSK	23.34	215.77		
			16QAM	22.52	178.65		
			64QAM	21.82	152.05		
			256QAM	18.58	72.11		

LTE Band 12

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 12	704.00 ~ 711.00	10	QPSK	23.56	226.99	18.83	76.38
			16QAM	22.87	193.64	17.88	61.38
			64QAM	21.79	151.01		
			256QAM	18.98	79.07		
	701.50 ~ 713.50	5	QPSK	23.89	244.91	17.62	57.81
			16QAM	23.25	211.35	16.56	45.29
			64QAM	22.12	162.93		
			256QAM	19.00	79.43		
	700.50 ~ 714.50	3	QPSK	24.02	252.35	17.92	61.94
			16QAM	23.27	212.32	16.85	48.42
			64QAM	22.08	161.44		
			256QAM	19.07	80.72		
	699.70 ~ 715.30	1.4	QPSK	23.88	244.34	17.97	62.66
			16QAM	23.22	209.89	16.73	47.10
			64QAM	22.06	160.69		
			256QAM	18.88	77.27		

LTE Band 13

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 13	782.00	10	QPSK	23.52	224.91	23.85	242.66
			16QAM	22.68	185.35	22.94	196.79
			64QAM	21.86	153.46		
			256QAM	18.82	76.21		
	779.50 – 784.50	5	QPSK	23.36	216.77	24.22	264.24
			16QAM	22.77	189.23	23.21	209.41
			64QAM	22.42	174.58		
			256QAM	18.47	70.31		

LTE Band 30

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 30	2310.00	10	QPSK	22.85	192.75	22.37	172.58
			16QAM	22.82	191.43	21.96	157.04
			64QAM	21.68	147.23		
			256QAM	19.05	80.35		
	2307.50 – 2312.50	5	QPSK	22.64	183.65	22.92	195.88
			16QAM	21.92	155.60	22.16	164.44
			64QAM	20.75	118.85		
			256QAM	18.49	70.63		

LTE Band 41 (PC2)

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 41	2506.00 – 2680.00	20	QPSK	26.12	409.26	24.82	303.39
			16QAM	25.94	392.64	23.94	247.74
			64QAM	24.65	291.74		
			256QAM	21.69	147.57		
	2503.50 – 2682.50	15	QPSK	26.11	408.32	25.15	327.34
			16QAM	25.83	382.82	24.28	267.92
			64QAM	24.95	312.61		
			256QAM	21.43	139.00		
	2501.00 – 2685.00	10	QPSK	26.11	408.32	24.72	296.48
			16QAM	25.74	374.97	23.80	239.88
			64QAM	24.58	287.08		
			256QAM	21.83	152.41		
	2498.50 – 2687.50	5	QPSK	25.97	395.37	24.86	306.20
			16QAM	25.76	376.70	23.90	245.47
			64QAM	24.68	293.76		
			256QAM	21.54	142.56		

LTE Band 41C (UL CA)

Part 27			
EIRP Limit (dBm)	33	ANT Gain (dBi)	-3.1

Frequency Range (MHz)	Bandwidth (MHz)	Modulation	Output Power				Margin
			Conducted Average Power (dBm)	Antenna Gain dBi	EIRP Average Power		
					dBm	mW	
2496.00 ~ 2690.00	40MHz (20+20)	QPSK	24.63	-3.10	21.53	142.23	-11.47
		16QAM	24.72		21.62	145.21	-11.38
	35MHz (15+20)	QPSK	24.53		21.43	139.00	-11.57
		16QAM	24.62		21.52	141.91	-11.48
	30MHz (15+15)	QPSK	24.60		21.50	141.25	-11.50
		16QAM	24.69		21.59	144.21	-11.41
	25MHz (5+20)	QPSK	21.42		18.32	67.92	-14.68
		16QAM	21.47		18.37	68.71	-14.63

LTE Band 66

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 66	1720.00 ~ 1770.00	20	QPSK	23.31	214.29	26.37	433.51
			16QAM	22.80	190.55	25.81	381.07
			64QAM	21.87	153.82		
			256QAM	18.90	77.62		
	1717.50 ~ 1772.50	15	QPSK	23.42	219.79	26.66	463.45
			16QAM	22.85	192.75	26.03	400.87
			64QAM	21.59	144.21		
			256QAM	18.67	73.62		
	1715.00 ~ 1775.00	10	QPSK	23.39	218.27	26.60	457.09
			16QAM	22.85	192.75	26.02	399.94
			64QAM	21.41	138.36		
			256QAM	18.37	68.71		
	1712.50 ~ 1777.50	5	QPSK	23.54	225.94	25.94	392.64
			16QAM	22.86	193.20	25.69	370.68
			64QAM	21.43	139.00		
			256QAM	18.34	68.23		
	1711.50 ~ 1778.50	3	QPSK	23.21	209.41	26.77	475.34
			16QAM	22.81	190.99	26.43	439.54
			64QAM	21.83	152.41		
			256QAM	18.88	77.27		
	1710.70 ~ 1779.30	1.4	QPSK	23.52	224.91	26.59	456.04
			16QAM	22.81	190.99	26.08	405.51
			64QAM	21.69	147.57		
			256QAM	18.53	71.29		

LTE Band 66 (ANT SUB2)

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 66	1720.00 - 1770.00	20	QPSK	23.59	228.56	19.63	91.83
			16QAM	22.90	194.98	19.43	87.70
			64QAM	21.89	154.53		
			256QAM	18.65	73.28		
	1717.50 - 1772.50	15	QPSK	22.20	165.96		
			16QAM	22.77	189.23		
			64QAM	21.60	144.54		
			256QAM	18.73	74.64		
	1715.00 - 1775.00	10	QPSK	22.26	168.27		
			16QAM	22.60	181.97		
			64QAM	21.71	148.25		
			256QAM	18.76	75.16		
	1712.50 - 1777.50	5	QPSK	22.23	167.11		
			16QAM	22.53	179.06		
			64QAM	21.68	147.23		
			256QAM	18.70	74.13		
	1711.50 - 1778.50	3	QPSK	22.25	167.88		
			16QAM	22.63	183.23		
			64QAM	21.69	147.57		
			256QAM	18.63	72.95		
1710.70 - 1779.30	1.4	QPSK	22.08	161.44			
		16QAM	22.38	172.98			
		64QAM	21.66	146.55			
		256QAM	18.59	72.28			

LTE Band 66B (UL CA)

Part 27			
EIRP Limit (dBm)	30.0	ANT Gain (dBi)	-1.4

Frequency Range (MHz)	Bandwidth (MHz)	Modulation	Output Power				Margin
			Conducted Average Power	Antenna Gain	EIRP Average Power		
			(dBm)	dBi	dBm	mW	
1710.00 ~ 1780.00	20MHz (10+10)	QPSK	24.11	-1.40	22.71	186.64	-7.29
		16QAM	23.47		22.07	161.06	-7.93
	15MHz (5+10)	QPSK	24.02		22.62	182.81	-7.38
		16QAM	23.45		22.05	160.32	-7.95
	10MHz (5+5)	QPSK	24.00		22.60	181.97	-7.4
		16QAM	23.41		22.01	158.85	-7.99

LTE Band 66C (UL CA)

Part 27			
EIRP Limit (dBm)	30.0	ANT Gain (dBi)	-1.4

Frequency Range (MHz)	Bandwidth (MHz)	Modulation	Output Power				Margin
			Conducted Average Power	Antenna Gain	EIRP Average Power		
			(dBm)	dBi	dBm	mW	
1710.00 ~ 1780.00	40MHz (20+20)	QPSK	24.46	-1.40	23.06	202.30	-6.94
		16QAM	23.89		22.49	177.42	-7.51
	35MHz (15+20)	QPSK	24.26		22.86	193.20	-7.14
		16QAM	23.67		22.27	168.66	-7.73
	30MHz (15+15)	QPSK	24.44		23.04	201.37	-6.96
		16QAM	23.72		22.32	170.61	-7.68
	25MHz (5+20)	QPSK	24.23		22.83	191.87	-7.17
		16QAM	23.78		22.38	172.98	-7.62

LTE Band 71

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 71	673.00 ~ 688.00	20	QPSK	24.15	260.02	18.90	77.62
			16QAM	23.55	226.46	17.72	59.16
			64QAM	22.98	198.61		
			256QAM	19.36	86.30		
	670.50 ~ 690.50	15	QPSK	24.11	257.63	18.36	68.55
			16QAM	23.54	225.94	17.18	52.24
			64QAM	22.31	170.22		
			256QAM	19.29	84.92		
	668.00 ~ 693.00	10	QPSK	24.16	260.62	18.32	67.92
			16QAM	23.61	229.61	17.25	53.09
			64QAM	22.01	158.85		
			256QAM	19.07	80.72		
	665.50 ~ 695.50	5	QPSK	24.03	252.93	18.64	73.11
			16QAM	23.53	225.42	17.50	56.23
			64QAM	22.05	160.32		
			256QAM	19.07	80.72		

NR Band n12

FCC Part 27									
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated		
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]	
n12	706.50 ~ 708.50	15	DFT-s OFDM	$\pi/2$ BPSK	23.63	230.67			
				QPSK	23.65	231.74	18.23	66.53	
				16QAM	22.57	180.72	17.31	53.83	
				64QAM	21.05	127.35			
				256QAM	19.00	79.43			
	704.00 ~ 711.00	10	DFT-s OFDM	CP-OFDM	QPSK	22.05	160.32		
					$\pi/2$ BPSK	24.06	254.68		
					QPSK	24.14	259.42	18.38	68.87
					16QAM	23.01	199.99	17.39	54.83
					64QAM	21.60	144.54		
	701.50 ~ 713.50	5	DFT-s OFDM	CP-OFDM	256QAM	19.50	89.13		
					QPSK	22.53	179.06		
					$\pi/2$ BPSK	24.05	254.10		
					QPSK	24.07	255.27	18.60	72.44
					16QAM	23.06	202.30	17.60	57.54
					64QAM	21.61	144.88		
	256QAM	19.47	88.51						
	CP-OFDM	QPSK	22.58	181.13					

NR Band n30

FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n30	2310.00	10	DFT-s OFDM	$\pi/2$ BPSK	22.32	170.61		
				QPSK	22.36	172.19	22.56	180.30
				16QAM	21.46	139.96	21.52	141.91
				64QAM	19.59	90.99		
			256QAM	17.64	58.08			
	CP-OFDM	QPSK	20.61	115.08				
	2307.50 ~ 2312.50	5	DFT-s OFDM	$\pi/2$ BPSK	22.64	183.65		
				QPSK	22.75	188.36	22.55	179.89
				16QAM	21.72	148.59	21.50	141.25
				64QAM	20.32	107.65		
256QAM			18.13	65.01				
CP-OFDM	QPSK	21.20	131.83					

NR Band n41 (PC2)

FCC Part 27									
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated		
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]	
n41	2546.01 ~ 2640.00	100	DFT-s OFDM	$\pi/2$ BPSK	26.79	477.90			
				QPSK	26.80	478.31	25.17	328.85	
				16QAM	25.65	367.05	23.81	240.44	
				64QAM	24.20	263.09			
	2541.00 ~ 2644.98	90	DFT-s OFDM	CP-OFDM	QPSK	25.12	325.30		
					$\pi/2$ BPSK	26.81	479.92		
					QPSK	26.81	479.36	25.69	370.68
					16QAM	25.73	373.98	24.77	299.92
	2536.02 ~ 2649.99	80	DFT-s OFDM	CP-OFDM	64QAM	24.29	268.32		
					256QAM	22.96	197.74		
					QPSK	25.24	334.17		
					$\pi/2$ BPSK	26.80	478.11		
	2531.02 ~ 2654.98	70	DFT-s OFDM	CP-OFDM	QPSK	26.79	477.65	25.68	369.83
					16QAM	25.58	361.42	24.76	299.23
					64QAM	24.02	252.12		
					256QAM	23.00	199.35		
	2526.00 ~ 2659.98	60	DFT-s OFDM	CP-OFDM	QPSK	25.05	320.20		
					$\pi/2$ BPSK	26.77	475.80		
					QPSK	26.80	478.62	25.77	377.57
					16QAM	25.27	336.29	24.67	293.09
	2521.01 ~ 2665.00	50	DFT-s OFDM	CP-OFDM	64QAM	23.82	241.14		
					256QAM	22.89	194.32		
					QPSK	24.76	299.47		
					$\pi/2$ BPSK	26.78	476.07		
	2516.01 ~ 2670.00	40	DFT-s OFDM	CP-OFDM	QPSK	26.81	479.89	25.29	338.06
					16QAM	25.14	326.93	24.19	262.42
					64QAM	23.81	240.53		
					256QAM	22.97	198.27		
	2511.00 ~ 2675.00	30	DFT-s OFDM	CP-OFDM	QPSK	24.64	291.17		
					$\pi/2$ BPSK	26.76	474.37		
					QPSK	26.84	482.82	25.21	331.89
					16QAM	25.27	336.42	24.35	272.27
	2506.02 ~ 2679.99	20	DFT-s OFDM	CP-OFDM	64QAM	23.68	233.21		
					256QAM	22.90	195.06		
					QPSK	24.73	297.40		
					$\pi/2$ BPSK	26.75	472.71		
	2506.02 ~ 2679.99	20	DFT-s OFDM	CP-OFDM	QPSK	26.80	478.18	25.26	335.74
					16QAM	25.48	352.94	24.35	272.27
					64QAM	23.65	231.77		
					256QAM	22.84	192.25		
2506.02 ~ 2679.99	20	DFT-s OFDM	CP-OFDM	QPSK	24.75	298.33			
				$\pi/2$ BPSK	26.77	475.39			
				QPSK	26.79	477.24	25.10	323.59	
				16QAM	25.37	344.25	24.13	258.82	
2506.02 ~ 2679.99	20	DFT-s OFDM	CP-OFDM	64QAM	23.87	243.78			
				256QAM	22.75	188.36			
				QPSK	24.76	299.49			
				$\pi/2$ BPSK	26.77	474.88			
2506.02 ~ 2679.99	20	DFT-s OFDM	CP-OFDM	QPSK	26.78	476.97	24.81	302.69	
				16QAM	25.48	352.82	23.83	241.55	
				64QAM	23.88	244.35			
				256QAM	22.83	192.04			
2506.02 ~ 2679.99	20	DFT-s OFDM	CP-OFDM	QPSK	25.01	316.61			

n41	2503.50 ~ 2682.48	15	DFT-s OFDM	$\pi/2$ BPSK	26.80	478.63			
				QPSK	26.78	476.87	24.89	308.32	
				16QAM	25.63	365.39	23.98	250.03	
				64QAM	24.22	264.38			
				256QAM	22.91	195.50			
	2501.01 ~ 2685.00	10	DFT-s OFDM	CP-OFDM	QPSK	25.08	322.20		
				$\pi/2$ BPSK	QPSK	26.79	477.78		
					QPSK	26.81	480.14	24.89	308.32
					16QAM	25.59	362.38	23.99	250.61
					64QAM	24.08	255.72		
					256QAM	22.80	190.52		
				CP-OFDM	QPSK	25.33	341.46		

NR Band n41 (PC2, SRS1, ANT SUB2)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated (ANT SUB2)	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	2546.01 ~ 2640.00	100	24.91	309.74		
	2541.00 ~ 2644.98	90	24.91	309.74		
	2536.02 ~ 2649.99	80	24.82	303.39		
	2531.02 ~ 2654.98	70	24.78	300.61		
	2526.00 ~ 2659.98	60	24.54	284.45		
	2521.01 ~ 2665.00	50	24.25	266.07		
	2516.01 ~ 2670.00	40	24.06	254.68		
	2511.00 ~ 2675.00	30	24.20	263.03		
	2506.02 ~ 2679.99	20	24.62	289.73		
	2503.5 ~ 2682.48	15	24.83	304.09		
	2501.01 ~ 2685.00	10	25.03	318.42	19.16	82.41

NR Band n41 (PC2, SRS2, ANT SUB4)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated (ANT SUB4)	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	2546.01 ~ 2640.00	100	24.89	308.32		
	2541.00 ~ 2644.98	90	24.98	314.77		
	2536.02 ~ 2649.99	80	24.93	311.17		
	2531.02 ~ 2654.98	70	24.98	314.77		
	2526.00 ~ 2659.98	60	24.92	310.46		
	2521.01 ~ 2665.00	50	24.94	311.89		
	2516.01 ~ 2670.00	40	24.81	302.69		
	2511.00 ~ 2675.00	30	24.91	309.74		
	2506.02 ~ 2679.99	20	25.01	316.96		
	2503.5 ~ 2682.48	15	25.01	316.96		
	2501.01 ~ 2685.00	10	25.02	317.69	18.38	68.87

NR Band n41 (PC2, SRS3, ANT SUB1)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated (ANT SUB1)	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	2546.01 ~ 2640.00	100	20.74	118.58		
	2541.00 ~ 2644.98	90	20.78	119.67		
	2536.02 ~ 2649.99	80	21.16	130.62		
	2531.02 ~ 2654.98	70	21.34	136.14		
	2526.00 ~ 2659.98	60	21.26	133.66		
	2521.01 ~ 2665.00	50	21.38	137.40	23.04	201.37
	2516.01 ~ 2670.00	40	21.11	129.12		
	2511.00 ~ 2675.00	30	21.18	131.22		
	2506.02 ~ 2679.99	20	21.17	130.92		
	2503.5 ~ 2682.48	15	21.13	129.72		
	2501.01 ~ 2685.00	10	21.16	130.62		

NR Band n66

FCC Part 27										
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated			
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]		
n66	1730.00 ~ 1760.00	40	DFT-s OFDM	$\pi/2$ BPSK	23.89	244.91				
				QPSK	24.02	252.35	25.86	385.48		
				16QAM	23.09	203.70	25.32	340.41		
				64QAM	21.29	134.59				
			256QAM	19.09	81.10					
			CP-OFDM	QPSK	21.88	154.17				
				$\pi/2$ BPSK	23.75	237.14				
				QPSK	23.64	231.21	25.13	325.84		
	16QAM	23.49		223.36	24.63	290.40				
	1725.00 ~ 1765.00	30	DFT-s OFDM	64QAM	22.01	158.85				
				256QAM	19.78	95.06				
				CP-OFDM	QPSK	22.38	172.98			
					$\pi/2$ BPSK	23.89	244.91			
			QPSK		23.97	249.46	25.17	328.85		
			16QAM		22.86	193.20	24.64	291.07		
			1722.50 ~ 1767.50	25	DFT-s OFDM	64QAM	21.53	142.23		
						256QAM	19.37	86.50		
	CP-OFDM	QPSK				22.31	170.22			
		$\pi/2$ BPSK				23.68	233.35			
		QPSK			23.50	223.87	25.40	346.74		
		16QAM			22.51	178.24	24.68	293.76		
	1720.00 ~ 1770.00	20			DFT-s OFDM	64QAM	20.84	121.34		
						256QAM	19.41	87.30		
			CP-OFDM	QPSK		21.84	152.76			
				$\pi/2$ BPSK		23.71	234.96			
				QPSK	23.65	231.74	25.30	338.84		
				16QAM	22.54	179.47	24.67	293.09		
			1717.50 ~ 1772.50	15	DFT-s OFDM	64QAM	20.93	123.88		
256QAM						19.32	85.51			
CP-OFDM	QPSK	21.70				147.91				
	$\pi/2$ BPSK	23.88				244.34				
	QPSK	23.65			231.74	25.97	395.37			
	16QAM	22.58			181.13	25.48	353.18			
1715.00 ~ 1775.00	10	DFT-s OFDM			64QAM	21.51	141.58			
					256QAM	19.43	87.70			
			CP-OFDM	QPSK	22.30	169.82				
				$\pi/2$ BPSK	23.85	242.66				
		QPSK		23.83	241.55	26.23	419.76			
		16QAM		22.91	195.43	25.79	379.31			
		1712.50 ~ 1777.50	5	DFT-s OFDM	64QAM	21.31	135.21			
					256QAM	19.31	85.31			
CP-OFDM	QPSK				22.30	169.82				

NR Band n71

FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n71	673.00 ~ 688.00	20	DFT-s OFDM	$\pi/2$ BPSK	23.63	230.67		
				QPSK	23.82	240.99	19.04	80.17
				16QAM	22.96	197.70	18.04	63.68
				64QAM	20.91	123.31		
				256QAM	18.80	75.86		
	CP-OFDM	QPSK	21.81	151.71				
	670.50 ~ 690.50	15	DFT-s OFDM	$\pi/2$ BPSK	23.65	231.74		
				QPSK	23.67	232.81	18.90	77.62
				16QAM	22.62	182.81	17.83	60.67
				64QAM	21.14	130.02		
				256QAM	18.90	77.62		
	CP-OFDM	QPSK	21.96	157.04				
	668.00 ~ 693.00	10	DFT-s OFDM	$\pi/2$ BPSK	23.78	238.78		
				QPSK	23.82	240.99	19.13	81.85
				16QAM	22.71	186.64	18.21	66.22
				64QAM	21.24	133.05		
				256QAM	19.06	80.54		
	CP-OFDM	QPSK	22.13	163.31				
	665.50 ~ 695.50	5	DFT-s OFDM	$\pi/2$ BPSK	23.78	238.78		
				QPSK	23.81	240.44	19.04	80.17
16QAM				22.81	190.99	17.99	62.95	
64QAM				21.41	138.36			
256QAM				19.40	87.10			
CP-OFDM	QPSK	22.25	167.88					

NR Band n77(PC2, 3450-3550 MHz)

FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3499.98	100	DFT-s OFDM	$\pi/2$ BPSK	26.80	478.63		
				QPSK	26.91	490.91	28.25	668.34
				16QAM	25.29	338.06	27.43	553.35
				64QAM	23.87	243.78		
				256QAM	21.97	157.40		
	CP-OFDM	QPSK	24.85	305.49				
	3495.00 ~ 3504.99	90	DFT-s OFDM	$\pi/2$ BPSK	27.44	554.08		
				QPSK	27.46	556.70	28.38	688.65
				16QAM	25.55	358.55	27.54	567.54
				64QAM	24.18	261.61		
				256QAM	23.22	209.89		
	CP-OFDM	QPSK	25.10	323.43				
	3490.02 ~ 3510.00	80	DFT-s OFDM	$\pi/2$ BPSK	26.90	489.78		
				QPSK	26.93	493.17	28.44	698.23
				16QAM	25.51	355.63	27.54	567.54
				64QAM	24.10	257.04		
				256QAM	23.49	223.36		
	CP-OFDM	QPSK	24.80	302.00				
	3485.01 ~ 3514.98	70	DFT-s OFDM	$\pi/2$ BPSK	26.92	492.04		
				QPSK	26.88	487.96	28.39	690.24
				16QAM	25.35	342.77	27.53	566.24
				64QAM	23.92	246.44		
				256QAM	23.36	216.62		
	CP-OFDM	QPSK	24.78	300.61				
	3480.00 ~ 3519.99	60	DFT-s OFDM	$\pi/2$ BPSK	26.88	487.53		
				QPSK	26.89	489.14	28.39	690.24
				16QAM	25.50	355.12	27.50	562.34
				64QAM	24.10	257.04		
				256QAM	23.30	213.96		
	CP-OFDM	QPSK	24.98	314.65				
	3475.02 ~ 3525.00	50	DFT-s OFDM	$\pi/2$ BPSK	26.94	494.39		
				QPSK	27.00	501.19	28.51	709.58
				16QAM	25.85	384.65	27.61	576.77
				64QAM	24.36	272.85		
				256QAM	23.43	220.29		
	CP-OFDM	QPSK	25.30	338.79				
3470.01 ~ 3529.98	40	DFT-s OFDM	$\pi/2$ BPSK	26.97	497.74			
			QPSK	27.01	502.34	28.44	698.23	
			16QAM	25.79	379.03	27.56	570.16	
			64QAM	24.28	267.96			
			256QAM	23.45	221.31			
CP-OFDM	QPSK	25.29	337.82					
3465.00 ~ 3535.02	30	DFT-s OFDM	$\pi/2$ BPSK	26.99	500.03			
			QPSK	26.96	496.59	28.24	666.81	
			16QAM	25.84	383.71	27.24	529.66	
			64QAM	24.32	270.40			
			256QAM	23.42	219.79			
CP-OFDM	QPSK	25.24	334.39					

n77	3462.51 ~ 3527.48	25	DFT-s OFDM	$\pi/2$ BPSK	26.87	486.49		
				QPSK	26.85	484.22	28.37	687.07
				16QAM	25.74	375.38	27.78	599.79
				64QAM	24.28	268.00		
			256QAM	23.43	220.29			
	CP-OFDM	QPSK	25.21	331.64				
	3460.02 ~ 3540.00	20	DFT-s OFDM	$\pi/2$ BPSK	26.87	486.60		
				QPSK	26.89	488.97	28.28	672.98
				16QAM	25.74	374.99	27.39	548.28
				64QAM	24.37	273.59		
			256QAM	23.49	223.58			
	CP-OFDM	QPSK	25.27	336.74				
	3457.50 ~ 3542.49	15	DFT-s OFDM	$\pi/2$ BPSK	26.79	478.00		
				QPSK	26.86	484.77	28.29	674.53
				16QAM	25.75	375.91	27.36	544.50
				64QAM	24.18	261.68		
			256QAM	23.42	219.79			
	CP-OFDM	QPSK	25.24	334.52				
	3455.01 ~ 3544.98	10	DFT-s OFDM	$\pi/2$ BPSK	26.79	477.92		
				QPSK	26.82	481.21	28.19	659.17
16QAM				25.68	370.00	27.45	555.90	
64QAM				24.23	264.79			
256QAM			23.48	223.03				
CP-OFDM	QPSK	25.20	330.87					

NR Band n77(PC2, 3450-3550 MHz, SRS1, ANT SUB2)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated (ANT SUB2)	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3499.98	100	26.56	452.90		
	3495.00 ~ 3504.99	90	26.86	485.29		
	3490.02 ~ 3510.00	80	26.85	484.17		
	3485.01 ~ 3514.98	70	26.85	484.17		
	3480.00 ~ 3519.99	60	27.09	511.68		
	3475.02 ~ 3525.00	50	26.97	497.74		
	3470.01 ~ 3529.98	40	27.01	502.34		
	3465.00 ~ 3535.02	30	27.05	506.99		
	3462.51 ~ 3537.48	25	26.84	483.06		
	3460.02 ~ 3540.00	20	27.01	502.34		
	3457.50 ~ 3542.49	15	27.21	526.02	19.31	85.31
3455.01 ~ 3549.99	10	26.72	469.89			

NR Band n77(PC2, 3450-3550 MHz, SRS2, ANT SUB4)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated (ANT SUB4)	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3499.98	100	24.32	270.40		
	3495.00 ~ 3504.99	90	24.24	265.46		
	3490.02 ~ 3510.00	80	24.33	271.02		
	3485.01 ~ 3514.98	70	24.17	261.22		
	3480.00 ~ 3519.99	60	24.52	283.14		
	3475.02 ~ 3525.00	50	24.44	277.97		
	3470.01 ~ 3529.98	40	24.51	282.49		
	3465.00 ~ 3535.02	30	24.50	281.84		
	3462.51 ~ 3537.48	25	24.42	276.69		
	3460.02 ~ 3540.00	20	24.65	291.74		
	3457.50 ~ 3542.49	15	24.86	306.20	24.35	272.27
3455.01 ~ 3549.99	10	24.45	278.61			

NR Band n77(PC2, 3450-3550 MHz, SRS3, ANT SUB3)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated (ANT SUB3)	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3499.98	100	22.23	167.11		
	3495.00 ~ 3504.99	90	22.48	177.01	23.92	246.59
	3490.02 ~ 3510.00	80	22.29	169.43		
	3485.01 ~ 3514.98	70	22.31	170.22		
	3480.00 ~ 3519.99	60	22.27	168.66		
	3475.02 ~ 3525.00	50	22.26	168.27		
	3470.01 ~ 3529.98	40	22.00	158.49		
	3465.00 ~ 3535.02	30	21.82	152.05		
	3462.51 ~ 3537.48	25	21.73	148.94		
	3460.02 ~ 3540.00	20	21.97	157.40		
	3457.50 ~ 3542.49	15	22.11	162.55		
3455.01 ~ 3549.99	10	21.64	145.88			

NR Band n77(PC2, 3700-3980 MHz)

FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3750.00 – 3930.00	100	DFT-s OFDM	$\pi/2$ BPSK	27.31	537.75		
				QPSK	27.35	543.87	28.69	739.61
				16QAM	26.02	399.50	27.44	554.63
				64QAM	24.12	258.23		
				256QAM	23.35	216.26		
	CP-OFDM	QPSK	25.46	351.48				
	3745.02 – 3934.98	90	DFT-s OFDM	$\pi/2$ BPSK	27.38	547.63		
				QPSK	27.39	548.76	28.47	703.07
				16QAM	26.03	401.07	27.69	587.49
				64QAM	24.57	286.71		
				256QAM	23.43	220.29		
	CP-OFDM	QPSK	25.52	356.13				
	3740.01 – 3939.99	80	DFT-s OFDM	$\pi/2$ BPSK	27.37	546.12		
				QPSK	27.35	543.62	28.52	711.21
				16QAM	26.12	409.33	27.53	566.24
				64QAM	24.67	292.96		
				256QAM	23.42	219.79		
	CP-OFDM	QPSK	25.60	362.98				
	3735.02 – 3944.98	70	DFT-s OFDM	$\pi/2$ BPSK	26.72	469.74		
				QPSK	26.76	473.93	28.36	685.49
				16QAM	25.47	352.42	27.31	538.27
				64QAM	23.93	247.00		
				256QAM	23.34	215.92		
	CP-OFDM	QPSK	24.89	308.09				
	3730.02 – 3949.98	60	DFT-s OFDM	$\pi/2$ BPSK	27.29	535.41		
				QPSK	27.36	544.03	28.22	663.74
				16QAM	25.90	388.87	27.30	537.03
				64QAM	24.25	266.05		
				256QAM	23.42	219.79		
	CP-OFDM	QPSK	25.31	339.33				
	3725.01 – 3954.99	50	DFT-s OFDM	$\pi/2$ BPSK	27.45	555.49		
				QPSK	27.44	554.56	28.57	719.45
16QAM				25.94	392.95	27.62	578.10	
64QAM				24.45	278.45			
256QAM				23.42	219.79			
CP-OFDM	QPSK	25.35	342.69					
3720.02 – 3960.0	40	DFT-s OFDM	$\pi/2$ BPSK	27.49	560.98			
			QPSK	27.48	560.37	28.41	693.43	
			16QAM	26.13	410.35	27.53	566.24	
			64QAM	24.76	298.92			
			256QAM	23.50	223.87			
CP-OFDM	QPSK	25.55	358.96					
3715.02 – 3964.98	30	DFT-s OFDM	$\pi/2$ BPSK	27.50	561.85			
			QPSK	27.47	558.96	28.54	714.50	
			16QAM	26.29	425.35	27.56	570.16	
			64QAM	24.62	289.97			
			256QAM	23.43	220.29			
CP-OFDM	QPSK	25.79	379.56					

n77	3712.50 - 3967.50	25	DFT-s OFDM	$\pi/2$ BPSK	27.44	555.16		
				QPSK	27.49	561.41	27.63	579.43
				16QAM	26.26	422.41	26.85	484.17
				64QAM	24.71	295.97		
			256QAM	23.43	220.29			
	CP-OFDM	QPSK	25.68	370.21				
	3710.01 - 3969.99	20	DFT-s OFDM	$\pi/2$ BPSK	27.44	555.10		
				QPSK	27.44	554.82	28.64	731.14
				16QAM	26.13	410.28	27.60	575.44
				64QAM	24.75	298.54		
			256QAM	23.43	220.29			
	CP-OFDM	QPSK	25.68	370.21				
	3707.52 - 3972.48	15	DFT-s OFDM	$\pi/2$ BPSK	27.46	556.78		
				QPSK	27.47	558.38	28.70	741.31
				16QAM	26.27	423.78	27.80	602.56
				64QAM	24.72	296.76		
			256QAM	23.43	220.29			
	CP-OFDM	QPSK	25.77	377.39				
	3705.00 - 3975.00	10	DFT-s OFDM	$\pi/2$ BPSK	27.48	559.31		
				QPSK	27.50	562.75	28.84	765.60
16QAM				26.32	428.72	27.89	615.18	
64QAM				24.75	298.47			
256QAM			23.43	220.29				
CP-OFDM	QPSK	25.70	371.12					

NR Band n77(PC2, 3700-3980 MHz, SRS1, ANT SUB2)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated (ANT SUB2)	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3750.00 ~ 3930.00	100	26.63	460.26		
	3745.02 ~ 3934.98	90	26.41	437.52		
	3740.01 ~ 3939.99	80	26.43	439.54		
	3735.02 ~ 3944.98	70	26.70	467.74		
	3730.02 ~ 3949.98	60	27.20	524.81		
	3725.01 ~ 3954.99	50	27.17	521.19		
	3720.02 ~ 3960.00	40	27.39	548.28	21.19	131.52
	3715.02 ~ 3964.98	30	27.20	524.81		
	3712.50 ~ 3967.50	25	27.03	504.66		
	3710.01 ~ 3969.99	20	27.25	530.88		
	3707.52 ~ 3972.48	15	27.19	523.60		
3705.00 ~ 3975.00	10	27.16	520.00			

NR Band n77(PC2, 3700-3980 MHz, SRS2, ANT SUB4)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated (ANT SUB4)	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3750.00 ~ 3930.00	100	24.70	295.12		
	3745.02 ~ 3934.98	90	24.66	292.42		
	3740.01 ~ 3939.99	80	24.71	295.80		
	3735.02 ~ 3944.98	70	24.77	299.92		
	3730.02 ~ 3949.98	60	24.91	309.74	19.70	93.33
	3725.01 ~ 3954.99	50	24.04	253.51		
	3720.02 ~ 3960.0	40	23.79	239.33		
	3715.02 ~ 3964.98	30	23.91	246.04		
	3712.50 ~ 3967.50	25	24.83	304.09		
	3710.01 ~ 3969.99	20	23.85	242.66		
	3707.52 ~ 3972.48	15	24.02	252.35		
3705.00 ~ 3975.00	10	24.70	295.12			

NR Band n77(PC2, 3700-3980 MHz, SRS3, ANT SUB3)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated (ANT SUB3)	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3750.00 ~ 3930.00	100	21.73	148.94		
	3745.02 ~ 3934.98	90	21.67	146.89		
	3740.01 ~ 3939.99	80	21.60	144.54		
	3735.02 ~ 3944.98	70	21.64	145.88		
	3730.02 ~ 3949.98	60	22.09	161.70		
	3725.01 ~ 3954.99	50	22.14	163.68	21.99	158.12
	3720.02 ~ 3960.0	40	21.86	153.46		
	3715.02 ~ 3964.98	30	21.84	152.76		
	3712.50 ~ 3967.50	25	21.76	149.97		
	3710.01 ~ 3969.99	20	21.86	153.46		
	3707.52 ~ 3972.48	15	21.80	151.36		
3705.00 ~ 3975.00	10	21.43	139.00			

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a internal antenna for the supported bands with a maximum peak gain as follow:

Frequency (MHz)	Peak Gain (dBi/dBd)
LTE Band 4 / LTE Band 66 / NR Band n66 1710 - 1780 MHz	-1.4 (ANT MAIN1)
	-4.8 (ANT SUB2)
LTE Band 41 , NR Band n41 2496 - 2690 MHz	-3.1
LTE Band 7 / n7 2500 - 2570 MHz	-3.1 (ANT MAIN1)
	-4.8 (ANT SUB2)
NR Band n41 2496 - 2690 MHz	-3.1 (ANT MAIN1)_Main
	-4.8 (ANT SUB2)_SRS1
	-6.0 (ANT SUB4)_SRS2
	-3.1 (ANT SUB1)_SRS3
LTE Band 12 / NR Band n12 699 - 716 MHz	-3.2
LTE Band 13 777 - 787 MHz	-2.0
LTE Band 30 / NR Band n30 2305 - 2315 MHz	-3.1
LTE Band 71 / NR Band n71 663 – 698 MHz	-4.0
NR Band n77 3450-3550 MHz	-4.5 (ANT MAIN2)_Main
	-3.8 (ANT SUB2)_SRS1
	-5.2 (ANT SUB4)_SRS2
	-5.5 (ANT SUB3)_SRS3
NR Band n77 3700-3980 MHz	-3.3 (ANT MAIN2)_Main
	-4.0 (ANT SUB2)_SRS1
	-6.3 (ANT SUB4)_SRS2
	-6.6 (ANT SUB3)_SRS3

5.4. WORST-CASE ORIENTATION

Following Modes should be considered as worst-case scenario for all other measurements.

- UMTS REL 99/HSDPA

For LTE Bands the worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM, 64QAM and 256QAM modulations. However, the out of band emissions and spurious radiation were only performed on bandwidth and RB offset(with RB size 1) with the highest power in QPSK.

For NR Bands the worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM modulations. It was found that QPSK and 16QAM results were worst case as below.

For the sub2 antenna, LTE band 66 operates on the sub2 antenna in the anchor combination (ENDC) of 5G NR band n41.

For the sub2 antenna, LTE band 7 operates on the sub2 antenna in the anchor combination (ENDC) of 5G NR band n66.

Both NSA and SA modes were tested and worst case is reported. the out of band emissions and spurious radiation were only performed on bandwidth and RB offset(with RB size 1) with the highest conducted power.

This device supports SRS (sounding reference signal) 1, 2, 3 Mode for NR TDD bands. For each SRS 1, 2 and 3, Conducted power and radiated measurement were performed through FTM Mode provide by the customer. The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. SRS1,2,3 the worstcase scenario was radiated tested and reported.

- NR Worst case

BAND	NSA or SA	Antenna
n12, n30, n66, n71	SA	MAIN 1

BAND	NSA or SA or SRS	Antenna
n41(PC2)	SA	MAIN 1
	SRS1	SUB 2
	SRS2	SUB 4
	SRS3	SUB 1
n77(PC2)	SA	MAIN 2
	SRS1	SUB 2
	SRS2	SUB 4
	SRS3	SUB 3

LTE Band 4

LTE Band 4 (Frequency range: 1710-1755 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

LTE Band 41(PC3)

LTE Band 41(PC3, Frequency range : 2496-2690 MHz) is covered by LTE Band 41(PC2) (Frequency range: 2496-2690 MHz) due to same frequency range, same channel bandwidth and maximum tune-up limit is higher than LTE Band41(PC3).

NR Band 41(PC3, SRS 1, 2, 3)

NR Band 41(PC3, Frequency range : 2496-2690 MHz) is covered by NR Band 41(PC2) (Frequency range: 2496-2690 MHz) due to same frequency range, same channel bandwidth and maximum tune-up limit is higher than NR Band 41(PC3).

NR Band 77(PC3, SRS 1, 2, 3)

NR Band 77(PC3, Frequency range : 3450-3550 MHz, 3700-3980 MHz) is covered by NR Band 77(PC2, Frequency range : 3450-3550 MHz, 3700-3980 MHz) due to same frequency range, same channel bandwidth and maximum tune-up limit is higher than NR Band 77(PC3).

NR Band 78

NR Band 78 (Frequency range : 3450-3550 MHz) is covered by NR Band 77(Frequency range : 3450-3550 MHz) due to same frequency range, same maximum tune-up limit and same channel bandwidth.

NR Band 78(PC3, SRS 1, 2, 3)

NR Band 78(PC2, Frequency range : 3450-3550 MHz) is covered by NR Band 77(PC2, Frequency range : 3450-3550 MHz) due to same frequency range, same channel bandwidth and maximum tune-up limit is higher than NR Band 78(PC3).

● Conducted Spurious Emission (ANT MAIN1)

Highest conducted output power setting for each bands				
LTE Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
7	2510.00	20	1	99
	2535.00		1	49
	2560.00		1	0
12	700.50	3	1	14
	707.50		1	0
	714.50		1	0
13	782.00	10	1	0
30	2310.00	10	1	25
41(PC2)	2506.00	20	1	49
	2593.00		1	49
	2680.00		1	49
66	1712.50	5	1	24
	1745.00		1	24
	1745.00		1	24
71	668.00	10	1	0
	680.50		1	0
	668.00		1	0
NR Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
12	704.00	10	1	26
	707.50		1	26
	711.00		1	1
30	2307.50	5	1	23
	2310.00		1	23
	2312.50		1	23
41(PC2)	2521.01	50	1	67
	2593.00		1	67
	2664.99		1	131
66	1730.00	40	1	214
	1745.00		1	108
	1760.00		1	108
71	673.00	20	1	104
	680.50		1	53
	688.00		1	53
77(PC2) (3450-3550 MHz)	3495.00	90	1	123
	3499.98		1	123
	3504.99		1	123
77(PC2) (3700-3980 MHz)	3705.00	10	1	12
	3840.00		1	12
	3975.00		1	22

● Conducted Spurious Emission (ANT SUB2)

Highest conducted output power setting for each bands				
LTE Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
7	2510.00	20	1	0
	2535.00		1	0
	2560.00		1	49
66	1720.00	20	1	99
	1745.00		1	99
	1770.00		1	0

● Radiated Spurious Emission(ANT MAIN1)

Highest EIRP/ERP setting for each bands				
LTE Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
7	2507.50	15	1	37
	2535.00		1	37
	2562.50		1	37
12	704.00	10	1	25
	707.50		1	25
	711.00		1	0
13	779.50	5	1	12
	782.00		1	24
	784.50		1	0
30	2307.50	5	1	24
	2310.00		1	24
	2312.50		1	24
41(PC2)	2503.50	15	1	37
	2593.00		1	0
	2682.50		1	37
66	1711.50	3	1	0
	1745.00		1	0
	1778.50		1	14
71	673.00	20	1	49
	680.50		1	0
	688.00		1	49
NR Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
12	701.50	5	1	23
	707.50		1	23
	713.50		1	1
30	2310.00	10	1	50
41(PC2)	2531.02	70	1	95
	2592.99		1	95
	2654.98		1	188
41(PC2)_SRS1	2501.01	10	1	0
	2592.99		1	0
	2685.00		1	0
41(PC2)_SRS2	2501.01	10	1	0
	2592.99		1	0
	2685.00		1	0
41(PC2)_SRS3	2521.01	50	1	0
	2592.99		1	0
	2665.00		1	0
66	1712.50	5	1	23
	1745.00		1	23
	1777.50		1	23
71	668.00	10	1	50
	680.50		1	50
	693.00		1	26
77(PC2) (3450-3550 MHz)	3475.02	50	1	131
	3499.98		1	67
	3524.00		1	67
77(PC2)_SRS1 (3450-3550 MHz)	3457.50	15	1	0
	3499.98		1	0
	3542.52		1	0
77(PC2)_SRS2 (3450-3550 MHz)	3457.50	15	1	0
	3499.98		1	0
	3542.52		1	0
77(PC2)_SRS3 (3450-3550 MHz)	3495.00	90	1	0
	3499.98		1	0
	3504.99		1	0

77(PC2) (3700-3980 MHz)	3705.00	10	1	22
	3840.00		1	12
	3975.00		1	12
77(PC2)_SRS1 (3700-3980 MHz)	3720.00	15	1	0
	3840.00		1	0
	3960.00		1	0
77(PC2)_SRS2 (3700-3980 MHz)	3730.00	60	1	0
	3840.00		1	0
	3950.00		1	0
77(PC2)_SRS3 (3700-3980 MHz)	3725.00	50	1	0
	3840.00		1	0
	3955.00		1	0

● Radiated Spurious Emission(ANT SUB2)

Highest EIRP setting for each bands				
LTE Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
7	2510.00	20	1	0
	2535.00		1	49
	2560.00		1	0
66	1720.00	20	1	99
	1745.00		1	99
	1770.00		1	0

● Uplink CA (ANT MAIN1)

Highest conducted output power setting for each bands					
LTE Band	Component Carrier	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
66B	PCC	1740.10	10	1	49
	SCC	1750.00	10	1	0
66C	PCC	1720.00	20	1	99
	SCC	1739.80	20	1	0
41C (PC2)	PCC	2583.10	20	1	99
	SCC	2602.90	20	1	0

Band	ANT	ERP/EIRP			RSE		
		X	Y	Z	X	Y	Z
WCDMA B4	M1	-	-	O	-	O	-
LTE B7	M1	O	-	-	-	O	-
	S2	O	-	-	-	-	O
LTE B12	M1	-	O	-	-	O	-
LTE B13	M1	-	O	-	O	-	-
LTE B30	M1	O	-	-	O	-	-
LTE B41(PC2)	M1	O	-	-	O	-	-
LTE B66	M1	O	-	-	O	-	-
	S2	O	-	-	-	O	-
LTE B71	M1	-	O	-	-	O	-
NR n12	M1	O	-	-	-	-	O
NR n25	M1	O	-	-	-	O	-
NR n30	M1	O	-	-	O	-	-
NR n41(PC2)	M1	O	-	-	-	-	O
	S2 (SRS1)	O	-	-	-	-	O
	S4 (SRS2)	-	-	O	-	-	O
	S1 (SRS3)	-	O	-	-	-	O
NR n66	M1	O	-	-	O	-	-
NR n71	M1	-	O	-	O	-	-
NR n77(PC2) (3450 - 3550 MHz)	M1	O	-	-	O	-	-
	S2 (SRS1)	O	-	-	O	-	-
	S4 (SRS2)	O	-	-	O	-	-
	S3 (SRS3)	O	-	-	O	-	-
NR n77(PC2) (3700 - 3980 MHz)	M1	O	-	-	O	-	-
	S2 (SRS1)	O	-	-	-	-	O
	S4 (SRS2)	-	O	-	-	O	-
	S3 (SRS3)	-	O	-	-	-	O
LTE B41C (UL CA)_ (PC2)	M1				-	O	-
LTE B66B(UL CA)	M1				O	-	-
LTE B66C(UL CA)	M1				-	O	-

Note : For ERP/EIRP testing, the EUT didn't attached with travel adapter. But radiated spurious testing, the EUT attached with travel adapter for the worst case condition. The EUT is continuously communicated with the call box during the tests.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacture	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37M9KML7D2DK3	N/A
Data Cable	SAMSUNG	EP-DN980	GH39-02115A	N/A

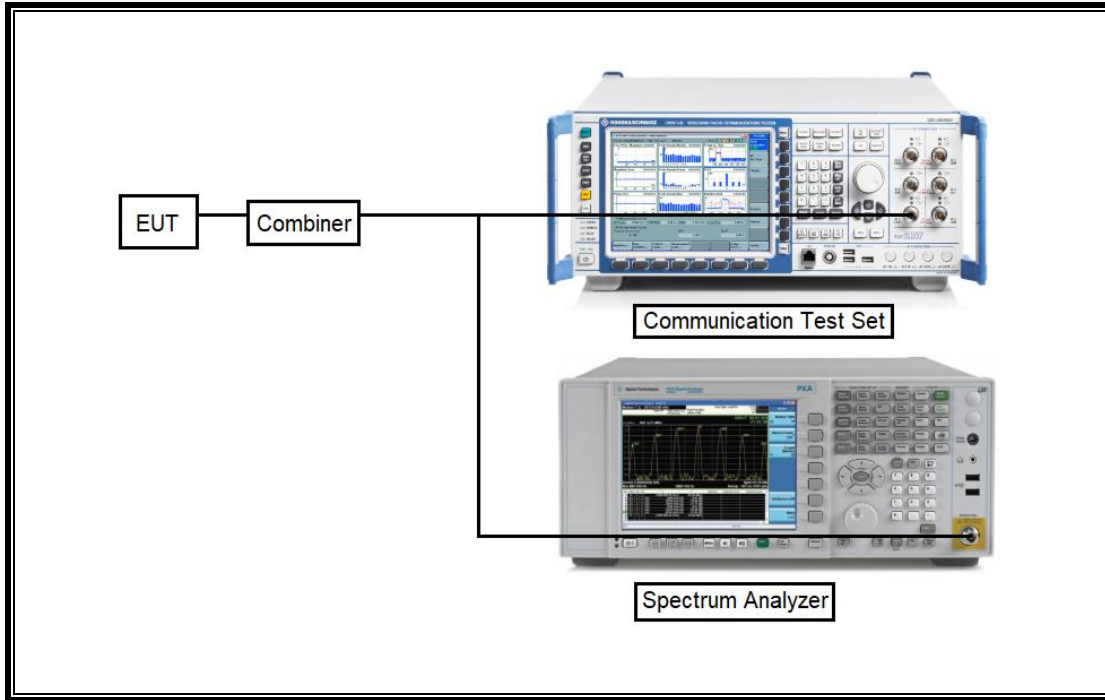
I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.0 m	N/A

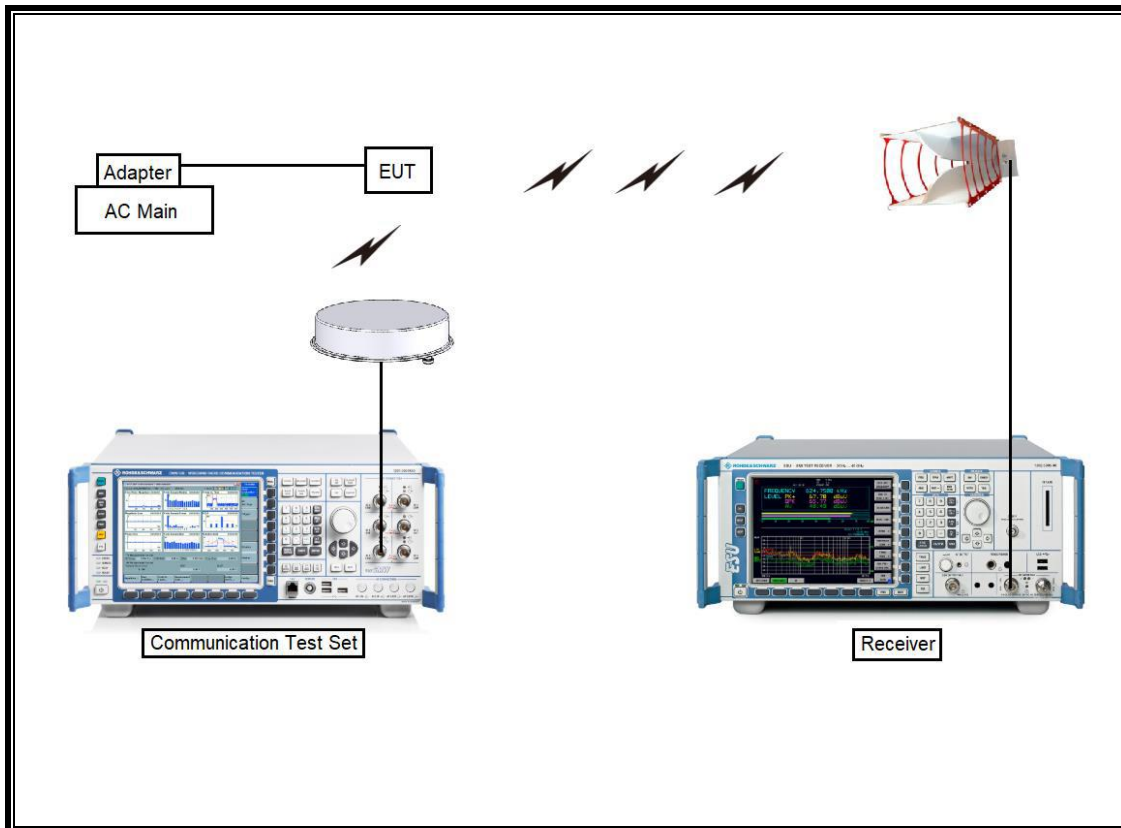
TEST SETUP

The EUT is continuously communicated with the call box during the tests.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Tuned Dipole 400~1000 MHz	ETS	3121D DB4	00164753	2025-01-17
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	110367-0003	N/A
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	80108-0004	N/A
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2023-10-13
Preamplifier	ETS	3115-PA	00167475	2023-08-04
Preamplifier	ETS	3116C-PA	00168841	2023-08-04
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	2024-08-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	2024-08-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	2024-08-15
Antenna, Horn, 18 GHz	ETS	3115	00161451	2024-08-21
Antenna, Horn, 18 GHz	ETS	3117	00168717	2024-08-21
Communications Test Set	R&S	CMW500	169796	2024-01-05
DC Power Supply	Agilent / HP	E3640A	MY54226395	2023-08-02
Preamplifier, 1000 MHz	Sonoma	310N	341282	2023-08-02
Preamplifier, 1000 MHz	Sonoma	310N	351741	2023-08-02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2023-08-01
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	2023-08-01
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2023-08-03
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2023-08-01
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030B	MY60070693	2024-01-09
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2023-08-02
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2023-07-29
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	2023-08-01
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2023-08-01
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2023-08-01
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2023-08-01
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2023-08-01
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2023-08-01
Attenuator	PASTERNAK	PE7087-10	A009	2023-08-03
Attenuator	PASTERNAK	PE7087-10	A001	2023-08-03
Attenuator	PASTERNAK	PE7087-10	A008	2023-08-03
Attenuator	PASTERNAK	PE7004-10	2	2023-08-01
Attenuator	PASTERNAK	PE7395-10	A011	2023-08-03
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	2023-10-06
Temperature Chamber	ESPEC	SH-642	93001109	2023-08-01
Power Splitter	MINI-CIRCUITS	WA1534	UL003	2024-01-09
Power Splitter	MINI-CIRCUITS	WA1534	UL004	2024-01-09
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY57510655	2024-01-09
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY58010202	2024-01-27
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY58460570	2023-12-08
UL Software				
Description	Manufacturer	Model	Version	
Antenna port test software	UL	CLT	Ver 3.4	
Radiated software	UL	UL EMC	Ver 9.5	
Antenna port test software (5G NR FR1)	UL	UL iM	Ver 1.06	

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result
2.1049	Occupied Band width (99%)	N/A	Conducted	Pass
27.53(g),(h), 27.53(l)(2) 27.53(n)(2)	Band Edge / Conducted Spurious Emission	-13dBm		Pass
27.53(c)		-35 dBm		Pass
27.53(m)	Conducted Spurious Emission	-25dBm		Pass
27.53(a),(m)	Emission mask	Section 9.2.2		Pass
2.1046	Conducted output power	N/A		Pass
27.54	Frequency Stability	2.5PPM		Pass
27.50(c)(10) 27.50(b)(10)	Effective Radiated Power	34.77dBm		Radiated
27.50(h)(2) 27.50(j)(3) 27.50(k)(3)	Equivalent Isotropic Radiated Power	33dBm	Pass	
27.50(d)(4)		30dBm	Pass	
27.53(g),(h)	Radiated Spurious Emission	-13dBm	Pass	
27.53(f)		-40dBm	Pass	
27.53(m) 27.53(l)(2) 27.53(n)(2)		-25dBm	Pass	

8. CONDUCTED RESULTS

8.1. CONDUCTED OUTPUT POWER

Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to either CMW500 Test Set or E7515B Test set and configured to operate at maximum power.

NOTE

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

RESULTS

See the following pages.

8.1.1. CONDUCTED AVERAGE OUTPUT POWER

WCDMA B4

Mode		UL Ch No.	Freq. (MHz)	Maximum Average Power (dBm)		
				Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.40	23.61	N/A	25.0
		1413	1732.60	23.76		
		1513	1752.60	23.57		
HSDPA	Subtest 1	1312	1712.40	23.05	0	24.5
		1413	1732.60	23.15		
		1513	1752.60	23.14		
	Subtest 2	1312	1712.40	22.71	0	24.0
		1413	1732.60	22.73		
		1513	1752.60	22.77		
	Subtest 3	1312	1712.40	22.28	0.5	24.0
		1413	1732.60	22.43		
		1513	1752.60	22.55		
	Subtest 4	1312	1712.40	22.33	0.5	24.0
		1413	1732.60	22.46		
		1513	1752.60	22.57		
HSUPA	Subtest 1	1312	1712.40	22.30	0	24.0
		1413	1732.60	22.27		
		1513	1752.60	22.31		
	Subtest 2	1312	1712.40	22.35	2	24.0
		1413	1732.60	22.89		
		1513	1752.60	22.74		
	Subtest 3	1312	1712.40	22.20	1	24.0
		1413	1732.60	22.19		
		1513	1752.60	22.24		
	Subtest 4	1312	1712.40	20.05	2	22.0
		1413	1732.60	20.02		
		1513	1752.60	20.12		
	Subtest 5	1312	1712.40	23.51	0	24.0
		1413	1732.60	23.47		
		1513	1752.60	23.57		
DC-HSDPA	Subtest 1	1312	1712.40	23.27	0	24.5
		1413	1732.60	23.50		
		1513	1752.60	23.66		
	Subtest 2	1312	1712.40	22.75	0	24.0
		1413	1732.60	22.99		
		1513	1752.60	23.21		
	Subtest 3	1312	1712.40	21.77	0.5	23.5
		1413	1732.60	21.93		
		1513	1752.60	22.11		
	Subtest 4	1312	1712.40	22.24	0.5	23.5
		1413	1732.60	22.39		
		1513	1752.60	22.57		

LTE Band 7

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				20850	21100	21350		
				2510.00 MHz	2535.00 MHz	2560.00 MHz		
20 MHz	QPSK	1	0	24.47	24.54	24.71	0.0	25.0
		1	49	24.57	24.44	24.49	0.0	25.0
		1	99	24.68	24.49	24.70	0.0	25.0
		50	0	23.56	23.60	23.72	1.0	24.0
		50	24	23.59	23.58	23.70	1.0	24.0
		50	50	23.62	23.56	23.68	1.0	24.0
		100	0	23.59	23.59	23.71	1.0	24.0
	16QAM	1	0	23.73	23.62	23.88	1.0	24.0
		1	49	23.87	23.66	24.00	1.0	24.0
		1	99	23.84	23.99	24.00	1.0	24.0
		50	0	22.48	22.58	22.68	2.0	23.0
		50	24	22.51	22.53	22.62	2.0	23.0
		50	50	22.52	22.50	22.60	2.0	23.0
		100	0	22.50	22.53	22.62	2.0	23.0
	64QAM	1	0	22.46	22.49	22.70	2.0	23.0
		1	49	22.54	22.45	22.68	2.0	23.0
		1	99	22.56	22.39	22.65	2.0	23.0
		50	0	21.49	21.56	21.64	3.0	22.0
		50	24	21.52	21.54	21.59	3.0	22.0
		50	50	21.55	21.51	21.58	3.0	22.0
		100	0	21.47	21.50	21.58	3.0	22.0
	256QAM	1	0	19.37	19.59	19.62	5.0	20.0
		1	49	19.32	19.40	19.41	5.0	20.0
		1	99	19.48	19.47	19.52	5.0	20.0
		50	0	19.40	19.48	19.55	5.0	20.0
		50	24	19.43	19.47	19.51	5.0	20.0
		50	50	19.45	19.45	19.49	5.0	20.0
		100	0	19.42	19.47	19.52	5.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20825	21100	21375		
				2507.50 MHz	2535.00 MHz	2562.50 MHz		
15 MHz	QPSK	1	0	23.79	24.21	24.34	0.0	25.0
		1	37	24.48	24.30	24.47	0.0	25.0
		1	74	24.45	24.16	23.73	0.0	25.0
		36	0	23.46	23.33	23.41	1.0	24.0
		36	20	23.49	23.31	23.41	1.0	24.0
		36	39	23.53	23.29	23.44	1.0	24.0
		75	0	23.51	23.33	23.43	1.0	24.0
	16QAM	1	0	23.31	23.57	23.60	1.0	24.0
		1	37	23.74	23.62	23.59	1.0	24.0
		1	74	23.64	23.44	23.30	1.0	24.0
		36	0	22.37	22.27	22.39	2.0	23.0
		36	20	22.38	22.24	22.35	2.0	23.0
		36	39	22.41	22.21	22.34	2.0	23.0
		75	0	22.37	22.20	22.31	2.0	23.0
	64QAM	1	0	22.24	22.25	22.21	2.0	23.0
		1	37	21.93	22.30	22.34	2.0	23.0
		1	74	22.29	22.19	22.35	2.0	23.0
		36	0	21.15	21.14	21.25	3.0	22.0
		36	20	21.14	21.11	21.30	3.0	22.0
		36	39	21.13	21.11	21.31	3.0	22.0
		75	0	21.15	21.07	21.22	3.0	22.0
	256QAM	1	0	19.13	19.24	19.15	5.0	20.0
		1	37	19.06	18.97	19.24	5.0	20.0
		1	74	19.06	19.17	19.25	5.0	20.0
		36	0	19.08	19.05	19.11	5.0	20.0
		36	20	19.05	19.04	19.13	5.0	20.0
		36	39	19.05	19.00	19.16	5.0	20.0
		75	0	19.07	19.02	19.12	5.0	20.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20800	21100	21400		
				2505.00 MHz	2535.00 MHz	2565.00 MHz		
10 MHz	QPSK	1	0	24.18	24.23	24.23	0.0	25.0
		1	25	24.27	24.34	24.27	0.0	25.0
		1	49	24.37	24.18	24.53	0.0	25.0
		25	0	23.24	23.18	23.24	1.0	24.0
		25	12	23.28	23.18	23.23	1.0	24.0
		25	25	23.28	23.13	23.23	1.0	24.0
	16QAM	50	0	23.28	23.16	23.22	1.0	24.0
		1	0	23.40	23.44	23.51	1.0	24.0
		1	25	23.57	23.55	23.50	1.0	24.0
		1	49	23.45	23.22	23.34	1.0	24.0
		25	0	22.28	22.16	22.14	2.0	23.0
		25	12	22.30	22.14	22.11	2.0	23.0
	64QAM	25	25	22.29	22.12	22.13	2.0	23.0
		50	0	22.24	22.14	22.16	2.0	23.0
		1	0	22.17	22.04	22.32	2.0	23.0
		1	25	22.18	22.13	22.57	2.0	23.0
		1	49	22.24	22.06	22.42	2.0	23.0
		25	0	21.05	21.09	21.20	3.0	22.0
	256QAM	25	12	21.03	21.08	21.21	3.0	22.0
		25	25	21.04	21.04	21.23	3.0	22.0
		50	0	21.03	21.04	21.18	3.0	22.0
		1	0	19.47	19.16	19.14	5.0	20.0
		1	25	19.57	19.22	19.22	5.0	20.0
		1	49	19.46	19.02	19.20	5.0	20.0
5 MHz	QPSK	25	0	19.03	19.02	19.18	5.0	20.0
		25	12	19.02	19.00	19.20	5.0	20.0
		25	25	19.00	18.96	19.20	5.0	20.0
		50	0	19.00	18.97	19.11	5.0	20.0
		1	0	24.16	24.22	24.19	0.0	25.0
		1	12	24.23	24.35	24.26	0.0	25.0
	16QAM	1	24	24.32	24.25	23.82	0.0	25.0
		12	0	23.25	23.24	23.22	1.0	24.0
		12	7	23.25	23.24	23.23	1.0	24.0
		12	13	23.29	23.21	23.24	1.0	24.0
		25	0	23.29	23.23	23.22	1.0	24.0
		1	0	23.56	23.52	23.36	1.0	24.0
64QAM	1	12	23.57	23.61	23.46	1.0	24.0	
	1	24	23.60	23.46	23.30	1.0	24.0	
	12	0	22.30	22.25	22.15	2.0	23.0	
	12	7	22.29	22.19	22.14	2.0	23.0	
	12	13	22.30	22.21	22.12	2.0	23.0	
	25	0	22.21	22.14	22.14	2.0	23.0	
256QAM	1	0	22.79	22.89	22.07	2.0	23.0	
	1	12	22.25	22.22	22.13	2.0	23.0	
	1	24	22.33	22.24	22.19	2.0	23.0	
	12	0	21.98	21.87	21.00	3.0	22.0	
	12	7	21.97	21.81	21.02	3.0	22.0	
	12	13	21.81	21.92	21.01	3.0	22.0	
256QAM	25	0	21.07	21.07	21.00	3.0	22.0	
	1	0	18.93	19.04	18.91	5.0	20.0	
	1	12	18.96	19.06	18.86	5.0	20.0	
	1	24	19.04	19.05	18.90	5.0	20.0	
	12	0	18.96	19.10	18.96	5.0	20.0	
	12	7	18.98	19.07	18.98	5.0	20.0	
		12	13	19.00	19.07	18.95	5.0	20.0
		25	0	18.95	18.99	18.96	5.0	20.0

LTE Band 7 (ANT SUB2)

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				20850	21100	21350		
				2510.00 MHz	2535.00 MHz	2560.00 MHz		
20 MHz	QPSK	1	0	23.50	23.30	23.13	0.0	24.0
		1	49	23.07	23.40	22.64	0.0	24.0
		1	99	22.93	23.28	23.11	0.0	24.0
		50	0	22.52	22.30	22.17	1.0	23.0
		50	24	22.49	22.32	22.16	1.0	23.0
		50	50	22.47	22.30	22.16	1.0	23.0
		100	0	22.49	22.31	22.17	1.0	23.0
	16QAM	1	0	22.69	22.63	22.43	1.0	23.0
		1	49	22.86	22.67	22.50	1.0	23.0
		1	99	22.66	22.55	22.36	1.0	23.0
		50	0	21.47	21.34	21.22	2.0	22.0
		50	24	21.45	21.32	21.21	2.0	22.0
		50	50	21.45	21.29	21.18	2.0	22.0
		100	0	21.47	21.35	21.22	2.0	22.0
	64QAM	1	0	21.47	21.52	21.46	2.0	22.0
		1	49	21.48	21.46	21.45	2.0	22.0
		1	99	21.50	21.43	21.41	2.0	22.0
		50	0	20.47	20.38	20.27	3.0	21.0
		50	24	20.47	20.36	20.26	3.0	21.0
		50	50	20.47	20.35	20.28	3.0	21.0
		100	0	20.44	20.33	20.25	3.0	21.0
	256QAM	1	0	18.67	18.47	18.30	5.0	19.0
		1	49	18.69	18.49	18.48	5.0	19.0
		1	99	18.63	18.40	18.32	5.0	19.0
		50	0	18.45	18.36	18.26	5.0	19.0
		50	24	18.45	18.35	18.25	5.0	19.0
		50	50	18.42	18.34	18.26	5.0	19.0
		100	0	18.42	18.36	18.27	5.0	19.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20825	21100	21375		
				2507.50 MHz	2535.00 MHz	2562.50 MHz		
15 MHz	QPSK	1	0	23.41	22.98	22.43	0.0	24.0
		1	37	23.23	22.95	22.72	0.0	24.0
		1	74	23.33	22.99	22.69	0.0	24.0
		36	0	22.47	22.06	21.79	1.0	23.0
		36	20	22.43	22.05	21.77	1.0	23.0
		36	39	22.42	22.05	21.77	1.0	23.0
		75	0	22.46	22.07	21.78	1.0	23.0
	16QAM	1	0	22.51	22.19	21.99	1.0	23.0
		1	37	22.45	22.15	21.99	1.0	23.0
		1	74	22.51	22.15	22.00	1.0	23.0
		36	0	21.44	21.06	20.80	2.0	22.0
		36	20	21.41	21.06	20.79	2.0	22.0
		36	39	21.39	21.06	20.79	2.0	22.0
		75	0	21.42	21.05	20.79	2.0	22.0
	64QAM	1	0	21.64	21.38	21.02	2.0	22.0
		1	37	21.74	21.38	20.63	2.0	22.0
		1	74	21.64	21.32	21.03	2.0	22.0
		36	0	20.70	20.27	19.97	3.0	21.0
		36	20	20.71	20.28	19.98	3.0	21.0
		36	39	20.70	20.27	19.96	3.0	21.0
		75	0	20.64	20.27	19.99	3.0	21.0
	256QAM	1	0	18.63	18.49	18.05	5.0	19.0
		1	37	18.69	18.47	18.19	5.0	19.0
		1	74	18.67	18.46	18.05	5.0	19.0
		36	0	18.63	18.31	17.97	5.0	19.0
		36	20	18.60	18.33	17.97	5.0	19.0
		36	39	18.58	18.30	17.95	5.0	19.0
		75	0	18.64	18.31	17.99	5.0	19.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20800	21100	21400		
				2505.00 MHz	2535.00 MHz	2565.00 MHz		
10 MHz	QPSK	1	0	23.37	23.02	22.24	0.0	24.0
		1	25	23.37	23.10	22.53	0.0	24.0
		1	49	23.36	22.99	22.73	0.0	24.0
		25	0	22.36	21.99	21.75	1.0	23.0
		25	12	22.34	21.99	21.73	1.0	23.0
		25	25	22.33	21.98	21.73	1.0	23.0
	16QAM	50	0	22.36	22.00	21.74	1.0	23.0
		1	0	22.40	22.18	22.02	1.0	23.0
		1	25	22.49	22.21	21.91	1.0	23.0
		1	49	22.35	22.20	21.96	1.0	23.0
		25	0	21.33	21.02	20.82	2.0	22.0
		25	12	21.33	21.00	20.81	2.0	22.0
	64QAM	25	25	21.34	21.00	20.81	2.0	22.0
		50	0	21.35	20.99	20.76	2.0	22.0
		1	0	21.55	21.49	21.17	2.0	22.0
		1	25	21.40	21.46	21.34	2.0	22.0
		1	49	21.61	21.50	21.09	2.0	22.0
		25	0	20.56	20.21	20.02	3.0	21.0
	256QAM	25	12	20.58	20.19	20.01	3.0	21.0
		25	25	20.56	20.20	19.99	3.0	21.0
		50	0	20.57	20.22	19.99	3.0	21.0
		1	0	18.53	18.48	18.01	5.0	19.0
		1	25	18.76	18.68	18.23	5.0	19.0
		1	49	18.57	18.41	18.06	5.0	19.0
5 MHz	QPSK	25	0	18.59	18.29	18.10	5.0	19.0
		25	12	18.61	18.27	18.09	5.0	19.0
		25	25	18.58	18.27	18.07	5.0	19.0
		50	0	18.58	18.26	18.02	5.0	19.0
		1	0	23.33	22.88	22.69	0.0	24.0
		1	12	23.30	22.75	22.69	0.0	24.0
	16QAM	1	24	23.34	22.93	22.71	0.0	24.0
		12	0	22.29	21.94	21.74	1.0	23.0
		12	7	22.28	21.94	21.74	1.0	23.0
		12	13	22.28	21.94	21.72	1.0	23.0
		25	0	22.28	21.95	21.72	1.0	23.0
		1	0	22.52	22.44	21.93	1.0	23.0
	64QAM	1	12	22.44	22.18	21.91	1.0	23.0
		1	24	22.49	22.42	21.95	1.0	23.0
		12	0	21.31	21.05	20.74	2.0	22.0
		12	7	21.31	21.06	20.75	2.0	22.0
		12	13	21.30	21.04	20.71	2.0	22.0
		25	0	21.25	21.01	20.77	2.0	22.0
	256QAM	1	0	21.74	21.43	21.12	2.0	22.0
		1	12	21.82	21.38	21.32	2.0	22.0
		1	24	21.80	21.37	21.15	2.0	22.0
		12	0	20.51	20.23	20.04	3.0	21.0
		12	7	20.50	20.22	20.05	3.0	21.0
		12	13	20.51	20.23	20.01	3.0	21.0
256QAM	25	0	20.56	20.24	20.04	3.0	21.0	
	1	0	18.51	18.40	18.00	5.0	19.0	
	1	12	18.58	18.49	17.95	5.0	19.0	
	1	24	18.48	18.39	17.99	5.0	19.0	
	12	0	18.56	18.29	18.03	5.0	19.0	
	12	7	18.56	18.27	18.04	5.0	19.0	
256QAM	12	13	18.56	18.25	18.01	5.0	19.0	
	25	0	18.56	18.21	18.02	5.0	19.0	
	25	0	18.56	18.21	18.02	5.0	19.0	

LTE Band 12

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				23060	23095	23130		
				704.00 MHz	707.50 MHz	711.00 MHz		
10 MHz	QPSK	1	0	23.45	23.56	23.56	0.0	25.0
		1	25	23.48	23.45	23.44	0.0	25.0
		1	49	23.34	23.45	23.49	0.0	25.0
		25	0	22.44	22.55	22.59	1.0	24.0
		25	12	22.44	22.50	22.53	1.0	24.0
		25	25	22.41	22.45	22.50	1.0	24.0
	16QAM	50	0	22.46	22.51	22.56	1.0	24.0
		1	0	22.78	22.84	22.87	1.0	24.0
		1	25	22.87	22.81	22.80	1.0	24.0
		1	49	22.72	22.56	22.69	1.0	24.0
		25	0	21.55	21.58	21.63	2.0	23.0
		25	12	21.52	21.54	21.56	2.0	23.0
	64QAM	25	25	21.49	21.48	21.54	2.0	23.0
		50	0	21.46	21.55	21.57	2.0	23.0
		1	0	21.64	21.78	21.76	2.0	23.0
		1	25	21.72	21.79	21.74	2.0	23.0
		1	49	21.59	21.67	21.68	2.0	23.0
		25	0	20.50	20.55	20.56	3.0	22.0
	256QAM	25	12	20.46	20.46	20.52	3.0	22.0
		25	25	20.41	20.43	20.48	3.0	22.0
		50	0	20.45	20.50	20.49	3.0	22.0
		1	0	18.88	18.89	18.98	5.0	20.0
		1	25	18.80	18.81	18.81	5.0	20.0
		1	49	18.69	18.71	18.77	5.0	20.0
	5 MHz	QPSK	25	0	18.47	18.57	18.56	5.0
25			12	18.44	18.52	18.51	5.0	20.0
25			25	18.38	18.47	18.46	5.0	20.0
50			0	18.40	18.47	18.51	5.0	20.0
1			0	23.89	23.76	23.68	0.0	25.0
1			12	23.78	23.55	23.59	0.0	25.0
16QAM		1	24	23.88	23.73	23.68	0.0	25.0
		12	0	22.92	22.79	22.74	1.0	24.0
		12	7	22.90	22.78	22.73	1.0	24.0
		12	13	22.90	22.75	22.69	1.0	24.0
		25	0	22.92	22.79	22.73	1.0	24.0
		1	0	23.07	23.25	23.02	1.0	24.0
64QAM		1	12	22.97	22.93	22.89	1.0	24.0
		1	24	23.03	23.09	23.07	1.0	24.0
		12	0	21.95	21.92	21.71	2.0	23.0
		12	7	21.92	21.90	21.67	2.0	23.0
		12	13	21.93	21.87	21.66	2.0	23.0
		25	0	21.90	21.79	21.71	2.0	23.0
256QAM		1	0	21.84	22.12	21.65	2.0	23.0
		1	12	21.86	21.97	21.61	2.0	23.0
		1	24	21.92	21.99	21.67	2.0	23.0
		12	0	20.80	20.73	20.64	3.0	22.0
		12	7	20.77	20.70	20.58	3.0	22.0
		12	13	20.78	20.68	20.60	3.0	22.0
256QAM		25	0	20.80	20.71	20.62	3.0	22.0
	1	0	18.61	19.00	18.58	5.0	20.0	
	1	12	18.57	18.85	18.35	5.0	20.0	
	1	24	18.59	18.93	18.48	5.0	20.0	
	12	0	18.85	18.77	18.66	5.0	20.0	
	12	7	18.85	18.76	18.64	5.0	20.0	
256QAM	12	13	18.85	18.70	18.63	5.0	20.0	
	25	0	18.81	18.67	18.64	5.0	20.0	

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23025	23095	23165		
				700.50 MHz	707.50 MHz	714.50 MHz		
3 MHz	QPSK	1	0	23.99	23.73	23.80	0.0	25.0
		1	8	23.76	23.62	23.73	0.0	25.0
		1	14	24.02	23.69	23.79	0.0	25.0
		8	0	22.96	22.76	22.80	1.0	24.0
		8	4	22.92	22.79	22.79	1.0	24.0
		8	7	22.92	22.76	22.72	1.0	24.0
	16QAM	15	0	22.95	22.82	22.74	1.0	24.0
		1	0	22.99	23.27	23.20	1.0	24.0
		1	8	22.87	23.12	23.13	1.0	24.0
		1	14	22.92	23.24	23.16	1.0	24.0
		8	0	21.96	21.91	21.80	2.0	23.0
		8	4	21.98	21.89	21.76	2.0	23.0
	64QAM	8	7	21.91	21.86	21.75	2.0	23.0
		15	0	21.91	21.84	21.77	2.0	23.0
		1	0	21.97	21.99	21.80	2.0	23.0
		1	8	21.90	21.83	21.74	2.0	23.0
		1	14	22.08	22.02	21.74	2.0	23.0
		8	0	21.02	20.83	20.68	3.0	22.0
	256QAM	8	4	20.92	20.75	20.69	3.0	22.0
		8	7	20.97	20.81	20.72	3.0	22.0
		15	0	20.99	20.67	20.74	3.0	22.0
		1	0	19.04	19.07	18.70	5.0	20.0
		1	8	18.92	18.96	18.62	5.0	20.0
		1	14	19.00	18.99	18.69	5.0	20.0
1.4 MHz	QPSK	8	0	18.98	18.87	18.73	5.0	20.0
		8	4	18.91	18.83	18.75	5.0	20.0
		8	7	18.94	18.87	18.63	5.0	20.0
		15	0	18.95	18.80	18.72	5.0	20.0
		1	0	23.85	23.80	23.73	0.0	25.0
		1	3	23.83	23.53	23.57	0.0	25.0
	16QAM	1	5	23.88	23.82	23.75	0.0	25.0
		3	0	23.86	23.81	23.73	0.0	25.0
		3	1	23.85	23.81	23.68	0.0	25.0
		3	3	23.87	23.66	23.65	0.0	25.0
		6	0	22.93	22.79	22.76	1.0	24.0
		1	0	22.92	23.17	22.80	1.0	24.0
	64QAM	1	3	22.94	23.22	22.96	1.0	24.0
		1	5	22.97	23.18	22.86	1.0	24.0
		3	0	23.03	22.79	22.98	1.0	24.0
		3	1	22.94	22.86	22.88	1.0	24.0
		3	3	22.98	22.76	22.80	1.0	24.0
		6	0	21.99	21.71	21.77	2.0	23.0
	256QAM	1	0	22.06	21.92	21.85	2.0	23.0
		1	3	21.97	21.93	21.82	2.0	23.0
		1	5	22.02	21.88	21.82	2.0	23.0
		3	0	22.01	21.80	21.76	2.0	23.0
		3	1	21.96	21.77	21.71	2.0	23.0
		3	3	22.02	21.77	21.67	2.0	23.0
QPSK	6	0	20.91	20.79	20.72	3.0	22.0	
	1	0	18.81	18.78	18.63	5.0	20.0	
	1	3	18.88	18.85	18.58	5.0	20.0	
	1	5	18.80	18.78	18.57	5.0	20.0	
	3	0	18.86	18.76	18.56	5.0	20.0	
	3	1	18.80	18.68	18.52	5.0	20.0	
16QAM	3	3	18.77	18.67	18.52	5.0	20.0	
	6	0	18.87	18.70	18.54	5.0	20.0	
	1	0	23.85	23.80	23.73	0.0	25.0	
	1	3	23.83	23.53	23.57	0.0	25.0	
	1	5	23.88	23.82	23.75	0.0	25.0	
	3	0	23.86	23.81	23.73	0.0	25.0	
64QAM	3	1	23.85	23.81	23.68	0.0	25.0	
	3	3	23.87	23.66	23.65	0.0	25.0	
	6	0	22.93	22.79	22.76	1.0	24.0	
	1	0	22.92	23.17	22.80	1.0	24.0	
	1	3	22.94	23.22	22.96	1.0	24.0	
	1	5	22.97	23.18	22.86	1.0	24.0	
256QAM	3	0	23.03	22.79	22.98	1.0	24.0	
	3	1	22.94	22.86	22.88	1.0	24.0	
	3	3	22.98	22.76	22.80	1.0	24.0	
	6	0	21.99	21.71	21.77	2.0	23.0	
	1	0	22.06	21.92	21.85	2.0	23.0	
	1	3	21.97	21.93	21.82	2.0	23.0	
QPSK	1	5	22.02	21.88	21.82	2.0	23.0	
	3	0	22.01	21.80	21.76	2.0	23.0	
	3	1	21.96	21.77	21.71	2.0	23.0	
	3	3	22.02	21.77	21.67	2.0	23.0	
	6	0	20.91	20.79	20.72	3.0	22.0	
	1	0	18.81	18.78	18.63	5.0	20.0	
16QAM	1	3	18.88	18.85	18.58	5.0	20.0	
	1	5	18.80	18.78	18.57	5.0	20.0	
	3	0	18.86	18.76	18.56	5.0	20.0	
	3	1	18.80	18.68	18.52	5.0	20.0	
	3	3	18.77	18.67	18.52	5.0	20.0	
	6	0	18.87	18.70	18.54	5.0	20.0	

LTE Band 13

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)					
				Measured Pwr (dBm)			MPR	Tune-up Limit	
				23230	782.00 MHz				
10 MHz	QPSK	1	0		23.52		0.0	25.0	
		1	25		23.48		0.0	25.0	
		1	49		23.35		0.0	25.0	
		25	0		22.43		1.0	24.0	
		25	12		22.40		1.0	24.0	
		25	25		22.36		1.0	24.0	
	16QAM	50	0		22.41		1.0	24.0	
		1	0		22.62		1.0	24.0	
		1	25		22.68		1.0	24.0	
		1	49		22.59		1.0	24.0	
		25	0		21.49		2.0	23.0	
		25	12		21.46		2.0	23.0	
	64QAM	25	25		21.43		2.0	23.0	
		50	0		21.40		2.0	23.0	
		1	0		21.78		2.0	23.0	
		1	25		21.86		2.0	23.0	
		1	49		21.79		2.0	23.0	
		25	0		20.55		3.0	22.0	
	256QAM	25	12		20.50		3.0	22.0	
		25	25		20.50		3.0	22.0	
50		0		20.49		3.0	22.0		
1		0		18.75		5.0	20.0		
1		25		18.82		5.0	20.0		
1		49		18.65		5.0	20.0		
5 MHz	QPSK	25	0		18.52		5.0	20.0	
		25	12		18.46		5.0	20.0	
		25	25		18.44		5.0	20.0	
		50	0		18.44		5.0	20.0	
		1	0		23.16	23.26	23.36	0.0	25.0
		1	12		23.21	23.22	23.32	0.0	25.0
	16QAM	1	24		23.15	23.30	23.32	0.0	25.0
		12	0		22.23	22.32	22.40	1.0	24.0
		12	7		22.19	22.31	22.37	1.0	24.0
		12	13		22.22	22.30	22.35	1.0	24.0
		25	0		22.22	22.33	22.37	1.0	24.0
		1	0		22.59	22.72	22.71	1.0	24.0
	64QAM	1	12		22.48	22.66	22.73	1.0	24.0
		1	24		22.55	22.77	22.59	1.0	24.0
		12	0		21.25	21.38	21.46	2.0	23.0
		12	7		21.24	21.35	21.50	2.0	23.0
		12	13		21.19	21.35	21.41	2.0	23.0
		25	0		21.24	21.32	21.45	2.0	23.0
	256QAM	1	0		22.38	21.41	21.56	2.0	23.0
		1	12		22.42	21.36	21.45	2.0	23.0
1		24		22.38	21.44	21.47	2.0	23.0	
12		0		21.24	20.27	20.40	3.0	22.0	
12		7		21.23	20.25	19.83	3.0	22.0	
12		13		21.22	20.25	20.28	3.0	22.0	
256QAM	25	0		21.26	20.25	20.36	3.0	22.0	
	1	0		18.40	18.35	18.47	5.0	20.0	
	1	12		18.29	18.08	18.23	5.0	20.0	
	1	24		18.21	18.25	18.42	5.0	20.0	
	12	0		18.17	18.25	18.32	5.0	20.0	
	12	7		18.12	18.23	18.28	5.0	20.0	
256QAM	12	13		18.19	18.21	18.27	5.0	20.0	
	25	0		18.22	18.24	18.27	5.0	20.0	

LTE Band 30

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)					
				Measured Pwr (dBm)			MPR	Tune-up Limit	
				27710	2310.00 MHz				
10 MHz	QPSK	1	0		22.43		0.0	23.5	
		1	25		22.62		0.0	23.5	
		1	49		22.52		0.0	23.5	
		25	0		22.64		0.0	23.5	
		25	12		22.74		0.0	23.5	
		25	25		22.85		0.0	23.5	
	16QAM	50	0		22.75		0.0	23.5	
		1	0		22.74		0.0	23.5	
		1	25		22.82		0.0	23.5	
		1	49		22.17		0.0	23.5	
		25	0		21.66	1.0	22.5		
		25	12		21.71	1.0	22.5		
	64QAM	25	25		21.74	1.0	22.5		
		50	0		21.68	1.0	22.5		
		1	0		21.55	1.0	22.5		
		1	25		21.55	1.0	22.5		
		1	49		21.68	1.0	22.5		
		25	0		20.65	2.0	21.5		
	256QAM	25	12		20.72	2.0	21.5		
		25	25		20.76	2.0	21.5		
		50	0		20.69	2.0	21.5		
		1	0		18.75	4.0	19.5		
		1	25		18.82	4.0	19.5		
		1	49		19.05	4.0	19.5		
	5 MHz	QPSK	25	0		18.65	4.0	19.5	
25			12		18.72	4.0	19.5		
25			25		18.74	4.0	19.5		
50			0		18.65	4.0	19.5		
27685			27710	27735	MPR	Tune-up Limit			
2307.50 MHz			2310.00 MHz	2312.50 MHz					
5 MHz		QPSK	1	0	22.51	22.45	22.15	0.0	23.5
			1	12	22.46	22.56	22.39	0.0	23.5
			1	24	22.63	22.64	22.52	0.0	23.5
			12	0	21.45	21.55	21.36	1.0	22.5
			12	7	21.46	21.58	21.38	1.0	22.5
			12	13	21.44	21.59	21.44	1.0	22.5
		16QAM	25	0	21.46	21.58	21.42	1.0	22.5
			1	0	21.47	21.77	21.60	1.0	22.5
			1	12	21.72	21.82	21.62	1.0	22.5
			1	24	21.58	21.92	21.74	1.0	22.5
			12	0	20.42	20.59	20.39	2.0	21.5
			12	7	20.39	20.61	20.37	2.0	21.5
		64QAM	12	13	20.38	20.63	20.40	2.0	21.5
			25	0	20.31	20.61	20.30	2.0	21.5
			1	0	20.37	20.42	20.53	2.0	21.5
			1	12	20.75	20.51	20.71	2.0	21.5
			1	24	20.62	20.62	20.54	2.0	21.5
			12	0	19.19	19.49	19.25	3.0	20.5
		256QAM	12	7	19.24	19.54	19.33	3.0	20.5
	12		13	19.24	19.56	19.37	3.0	20.5	
	25		0	19.20	19.57	19.29	3.0	20.5	
	1		0	18.23	18.45	18.24	5.0	18.5	
	1		12	18.41	18.46	18.46	5.0	18.5	
	1		24	18.40	18.41	18.43	5.0	18.5	
	256QAM	12	0	18.19	18.44	18.29	5.0	18.5	
12		7	18.25	18.48	18.25	5.0	18.5		
12		13	18.33	18.49	18.28	5.0	18.5		
25		0	18.18	18.43	18.21	5.0	18.5		

LTE Band 41 (PC2)

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				39750	40620	41490		
				2506.00 MHz	2593.00 MHz	2680.00 MHz		
20 MHz	QPSK	1	0	25.72	25.96	25.29	0.0	27.0
		1	49	25.94	26.12	25.40	0.0	27.0
		1	99	25.88	26.00	25.28	0.0	27.0
		50	0	25.23	25.51	24.70	1.0	26.0
		50	24	25.28	25.49	24.73	1.0	26.0
		50	50	25.31	25.48	24.75	1.0	26.0
		100	0	25.31	25.51	24.75	1.0	26.0
	16QAM	1	0	25.48	25.93	25.05	1.0	26.0
		1	49	25.11	25.94	25.08	1.0	26.0
		1	99	25.59	25.94	25.05	1.0	26.0
		50	0	24.24	24.46	23.70	2.0	25.0
		50	24	24.30	24.49	23.67	2.0	25.0
		50	50	24.26	24.44	23.65	2.0	25.0
		100	0	24.22	24.48	23.67	2.0	25.0
	64QAM	1	0	24.13	24.65	23.60	2.0	25.0
		1	49	24.06	24.15	23.69	2.0	25.0
		1	99	24.45	24.27	23.95	2.0	25.0
		50	0	23.10	23.42	22.64	3.0	24.0
		50	24	23.17	23.39	22.63	3.0	24.0
		50	50	23.19	23.35	22.64	3.0	24.0
		100	0	23.14	23.43	22.64	3.0	24.0
	256QAM	1	0	21.21	21.69	21.08	5.0	22.0
		1	49	21.28	21.62	21.40	5.0	22.0
		1	99	21.36	21.53	21.14	5.0	22.0
		50	0	21.15	21.38	20.69	5.0	22.0
		50	24	21.16	21.36	20.66	5.0	22.0
		50	50	21.19	21.35	20.69	5.0	22.0
		100	0	21.17	21.39	20.61	5.0	22.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				39725	40620	41515		
				2503.50 MHz	2593.00 MHz	2682.50 MHz		
				15 MHz	QPSK	1	0	25.71
1	37	25.98	25.88			25.37	0.0	27.0
1	74	25.83	25.99			25.13	0.0	27.0
36	0	25.27	25.62			24.71	1.0	26.0
36	20	25.30	25.59			24.71	1.0	26.0
36	39	25.33	25.61			24.69	1.0	26.0
75	0	25.31	25.62			24.73	1.0	26.0
16QAM	1	0	25.50		25.83	24.99	1.0	26.0
	1	37	25.70		25.79	24.96	1.0	26.0
	1	74	25.53		25.68	24.88	1.0	26.0
	36	0	24.27		24.61	23.76	2.0	25.0
	36	20	24.27		24.58	23.74	2.0	25.0
	36	39	24.29		24.51	23.72	2.0	25.0
	75	0	24.22		24.52	23.69	2.0	25.0
64QAM	1	0	24.11		24.52	23.52	2.0	25.0
	1	37	24.71		24.95	23.84	2.0	25.0
	1	74	24.58		24.74	23.70	2.0	25.0
	36	0	23.14		23.42	22.70	3.0	24.0
	36	20	23.16		23.37	22.69	3.0	24.0
	36	39	23.17		23.41	22.70	3.0	24.0
	75	0	23.13		23.40	22.53	3.0	24.0
256QAM	1	0	21.26		21.28	20.53	5.0	22.0
	1	37	21.25		21.37	20.41	5.0	22.0
	1	74	21.37		21.19	20.65	5.0	22.0
	36	0	21.10		21.43	20.57	5.0	22.0
	36	20	21.09		21.40	20.54	5.0	22.0
	36	39	21.13		21.38	20.58	5.0	22.0
	75	0	21.08		21.37	20.54	5.0	22.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				39700	40620	41540		
				2501.00 MHz	2593.00 MHz	2685.00 MHz		
10 MHz	QPSK	1	0	25.62	25.88	25.13	0.0	27.0
		1	25	25.87	26.11	25.32	0.0	27.0
		1	49	25.76	26.02	25.07	0.0	27.0
		25	0	25.19	25.47	24.60	1.0	26.0
		25	12	25.19	25.48	24.58	1.0	26.0
		25	25	25.21	25.46	24.60	1.0	26.0
	16QAM	50	0	25.19	25.48	24.58	1.0	26.0
		1	0	25.40	25.69	25.05	1.0	26.0
		1	25	25.33	25.49	25.11	1.0	26.0
		1	49	25.58	25.74	25.06	1.0	26.0
		25	0	24.20	24.52	23.60	2.0	25.0
		25	12	24.18	24.47	23.60	2.0	25.0
	64QAM	25	25	24.18	24.47	23.57	2.0	25.0
		50	0	24.10	24.44	23.56	2.0	25.0
		1	0	24.04	24.58	23.41	2.0	25.0
		1	25	24.23	24.16	23.29	2.0	25.0
		1	49	24.22	24.48	23.37	2.0	25.0
		25	0	23.02	23.40	22.51	3.0	24.0
	256QAM	25	12	23.01	23.40	22.53	3.0	24.0
		25	25	23.03	23.40	22.51	3.0	24.0
		50	0	23.05	23.34	22.50	3.0	24.0
		1	0	21.30	21.58	20.50	5.0	22.0
		1	25	21.19	21.83	20.54	5.0	22.0
		1	49	21.44	21.57	20.53	5.0	22.0
5 MHz	QPSK	25	0	21.05	21.41	20.52	5.0	22.0
		25	12	21.04	21.39	20.52	5.0	22.0
		25	25	21.08	21.38	20.53	5.0	22.0
		50	0	21.04	21.33	20.51	5.0	22.0
		1	0	25.61	25.96	24.97	0.0	27.0
		1	12	25.52	25.87	24.87	0.0	27.0
	16QAM	1	24	25.66	25.97	24.97	0.0	27.0
		12	0	25.11	25.50	24.50	1.0	26.0
		12	7	25.11	25.46	24.54	1.0	26.0
		12	13	25.13	25.48	24.57	1.0	26.0
		25	0	25.16	25.46	24.55	1.0	26.0
		1	0	25.22	25.65	24.77	1.0	26.0
	64QAM	1	12	25.37	25.76	25.05	1.0	26.0
		1	24	25.24	25.66	24.81	1.0	26.0
		12	0	24.15	24.51	23.65	2.0	25.0
		12	7	24.15	24.48	23.65	2.0	25.0
		12	13	24.18	24.53	23.68	2.0	25.0
		25	0	24.08	24.42	23.49	2.0	25.0
	256QAM	1	0	24.35	24.62	23.82	2.0	25.0
		1	12	24.57	24.68	23.87	2.0	25.0
		1	24	24.37	24.57	23.82	2.0	25.0
		12	0	23.02	23.37	22.48	3.0	24.0
		12	7	23.02	23.33	22.44	3.0	24.0
		12	13	23.08	23.38	22.47	3.0	24.0
256QAM	25	0	23.06	23.36	22.42	3.0	24.0	
	1	0	21.50	21.36	20.88	5.0	22.0	
	1	12	21.34	21.02	21.06	5.0	22.0	
	1	24	21.54	21.26	20.87	5.0	22.0	
	12	0	20.98	21.33	20.55	5.0	22.0	
	12	7	20.98	21.32	20.56	5.0	22.0	
256QAM	12	13	20.99	21.30	20.57	5.0	22.0	
	25	0	21.00	21.32	20.40	5.0	22.0	

LTE Band 41C (PC2) (UL CA)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
40MHz (20MHz / 20MHz)	2506	2525.8	1	99	1	0	24.41	24.29
			1	0	1	99	13.91	13.89
			100	0	100	0	21.20	20.19
	2583.1	2602.9	1	99	1	0	24.63	24.72
			1	0	1	99	14.58	14.76
			100	0	100	0	21.54	20.53
	2660.2	2680	1	99	1	0	24.20	24.36
			1	0	1	99	14.20	14.32
			100	0	100	0	21.26	20.22

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
35MHz (15MHz / 20MHz)	2503.5	2520.6	1	74	1	0	24.31	24.52
			1	0	1	99	14.00	14.22
			75	0	100	0	20.20	20.19
	2583.2	2600.3	1	74	1	0	24.53	24.62
			1	0	1	99	14.52	14.82
			75	0	100	0	20.50	20.48
	2662.9	2680	1	74	1	0	24.34	24.23
			1	0	1	99	14.24	14.26
			75	0	100	0	20.23	20.21

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
30MHz (15MHz / 15MHz)	2503.5	2518.5	1	74	1	0	24.33	24.31
			1	0	1	74	14.05	14.18
			75	0	75	0	20.20	20.17
	2585.5	2600.5	1	74	1	0	24.60	24.69
			1	0	1	74	14.60	14.72
			75	0	75	0	20.54	20.53
	2667.5	2682.5	1	74	1	0	24.15	24.26
			1	0	1	74	14.09	14.23
			75	0	75	0	20.14	20.12

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
25MHz (5MHz / 20MHz)	2498.5	2510.2	1	24	1	0	21.22	21.42
			1	0	1	99	14.31	14.39
			25	0	100	0	21.24	21.25
	2583.6	2595.3	1	24	1	0	21.42	21.47
			1	0	1	99	14.46	14.63
			25	0	100	0	21.41	21.37
	2668.3	2680	1	24	1	0	21.19	21.30
			1	0	1	99	14.14	14.40
			25	0	100	0	21.20	21.22

LTE Band 66

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				132072	132322	132572		
				1720.00 MHz	1745.00 MHz	1770.00 MHz		
20 MHz	QPSK	1	0	22.59	23.31	23.15	0.0	24.5
		1	49	22.37	23.20	23.17	0.0	24.5
		1	99	23.28	23.23	23.03	0.0	24.5
		50	0	21.07	22.36	22.43	1.0	23.5
		50	24	21.56	22.51	22.50	1.0	23.5
		50	50	22.03	22.41	22.34	1.0	23.5
	100	0	21.57	22.38	22.44	1.0	23.5	
	16QAM	1	0	22.51	22.37	22.58	1.0	23.5
		1	49	21.81	22.51	22.80	1.0	23.5
		1	99	22.73	22.55	22.59	1.0	23.5
		50	0	20.37	21.68	21.82	2.0	22.5
		50	24	20.90	21.67	21.80	2.0	22.5
		50	50	21.39	21.66	21.80	2.0	22.5
	100	0	20.98	21.66	21.83	2.0	22.5	
	64QAM	1	0	20.70	21.49	21.82	2.0	22.5
		1	49	21.45	21.73	21.81	2.0	22.5
		1	99	21.74	21.54	21.87	2.0	22.5
		50	0	20.00	20.56	20.68	3.0	21.5
		50	24	20.50	20.59	20.65	3.0	21.5
		50	50	20.51	20.59	20.67	3.0	21.5
	100	0	20.48	20.54	20.63	3.0	21.5	
	256QAM	1	0	18.05	18.58	18.90	5.0	19.5
		1	49	18.73	18.61	18.76	5.0	19.5
		1	99	18.57	18.57	18.87	5.0	19.5
		50	0	18.40	18.46	18.60	5.0	19.5
		50	24	18.39	18.45	18.58	5.0	19.5
		50	50	18.37	18.46	18.57	5.0	19.5
	100	0	18.35	18.47	18.55	5.0	19.5	
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132047	132322	132597		
				1717.50 MHz	1745.00 MHz	1772.50 MHz		
15 MHz	QPSK	1	0	23.42	23.04	23.35	0.0	24.5
		1	37	22.05	23.20	23.24	0.0	24.5
		1	74	22.51	22.87	22.91	0.0	24.5
		36	0	21.05	22.53	22.63	1.0	23.5
		36	20	21.47	22.53	22.60	1.0	23.5
		36	39	21.76	22.53	22.50	1.0	23.5
	75	0	21.46	22.53	22.60	1.0	23.5	
	16QAM	1	0	21.10	22.66	22.85	1.0	23.5
		1	37	21.72	22.67	22.75	1.0	23.5
		1	74	22.19	22.65	22.68	1.0	23.5
		36	0	20.32	21.54	21.60	2.0	22.5
		36	20	20.78	21.51	21.56	2.0	22.5
		36	39	21.09	21.47	21.54	2.0	22.5
	75	0	20.79	21.47	21.56	2.0	22.5	
	64QAM	1	0	20.21	21.59	21.48	2.0	22.5
		1	37	21.00	21.24	21.38	2.0	22.5
		1	74	21.40	21.54	21.45	2.0	22.5
		36	0	19.77	20.47	20.53	3.0	21.5
		36	20	20.25	20.44	20.52	3.0	21.5
		36	39	20.24	20.42	20.51	3.0	21.5
	75	0	20.28	20.38	20.46	3.0	21.5	
	256QAM	1	0	18.01	18.67	18.38	5.0	19.5
		1	37	18.27	18.54	18.29	5.0	19.5
		1	74	18.27	18.63	18.29	5.0	19.5
		36	0	18.18	18.35	18.35	5.0	19.5
		36	20	18.14	18.34	18.33	5.0	19.5
		36	39	18.13	18.30	18.33	5.0	19.5
	75	0	18.17	18.30	18.34	5.0	19.5	

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	
				132022	132322	132622			
				1715.00 MHz	1745.00 MHz	1775.00 MHz			
10 MHz	QPSK	1	0	22.45	23.39	23.37	0.0	24.5	
		1	25	22.31	23.30	23.19	0.0	24.5	
		1	49	22.36	23.25	23.33	0.0	24.5	
		25	0	21.18	22.50	22.52	1.0	23.5	
		25	12	21.40	22.50	22.50	1.0	23.5	
		25	25	21.61	22.48	22.47	1.0	23.5	
	16QAM	50	0	21.44	22.50	22.49	1.0	23.5	
		1	0	21.25	22.74	22.84	1.0	23.5	
		1	25	21.56	22.77	22.85	1.0	23.5	
		1	49	21.97	22.76	22.76	1.0	23.5	
		25	0	20.51	21.51	21.53	2.0	22.5	
		25	12	20.75	21.49	21.50	2.0	22.5	
	64QAM	25	25	20.99	21.47	21.48	2.0	22.5	
		50	0	20.79	21.43	21.44	2.0	22.5	
		1	0	20.25	21.32	21.12	2.0	22.5	
		1	25	20.54	21.41	21.28	2.0	22.5	
		1	49	20.92	21.41	21.22	2.0	22.5	
		25	0	19.59	20.13	20.16	3.0	21.5	
	256QAM	25	12	19.83	20.11	20.15	3.0	21.5	
		25	25	19.97	20.13	20.13	3.0	21.5	
		50	0	19.84	20.09	20.14	3.0	21.5	
		1	0	17.88	18.37	18.12	5.0	19.5	
		1	25	17.95	18.31	17.99	5.0	19.5	
		1	49	17.91	18.33	18.02	5.0	19.5	
	5 MHz	QPSK	25	0	17.95	18.08	18.06	5.0	19.5
			25	12	17.95	18.07	18.05	5.0	19.5
			25	25	17.91	18.04	18.04	5.0	19.5
			50	0	17.87	18.02	18.03	5.0	19.5
1			0	22.93	23.50	23.40	0.0	24.5	
1			12	22.98	23.52	23.29	0.0	24.5	
16QAM		1	24	22.99	23.54	23.45	0.0	24.5	
		12	0	22.27	22.54	22.48	1.0	23.5	
		12	7	22.35	22.52	22.47	1.0	23.5	
		12	13	22.36	22.49	22.44	1.0	23.5	
		25	0	22.33	22.52	22.48	1.0	23.5	
		1	0	22.46	22.70	22.86	1.0	23.5	
64QAM	1	12	22.60	22.61	22.70	1.0	23.5		
	1	24	22.68	22.66	22.79	1.0	23.5		
	12	0	21.50	21.54	21.50	2.0	22.5		
	12	7	21.47	21.52	21.46	2.0	22.5		
	12	13	21.48	21.53	21.47	2.0	22.5		
	25	0	21.48	21.48	21.45	2.0	22.5		
256QAM	1	0	21.02	21.33	21.33	2.0	22.5		
	1	12	21.03	21.25	21.37	2.0	22.5		
	1	24	21.10	21.35	21.43	2.0	22.5		
	12	0	20.01	20.10	20.16	3.0	21.5		
	12	7	20.00	20.09	20.15	3.0	21.5		
	12	13	19.99	20.10	20.14	3.0	21.5		
256QAM	25	0	20.03	20.11	20.10	3.0	21.5		
	1	0	18.08	18.34	18.09	5.0	19.5		
	1	12	17.83	18.11	18.01	5.0	19.5		
	1	24	17.99	18.30	18.06	5.0	19.5		
	12	0	17.94	18.08	18.09	5.0	19.5		
	12	7	17.91	18.07	18.07	5.0	19.5		
256QAM	12	13	17.90	18.03	18.07	5.0	19.5		
	25	0	17.91	17.99	18.05	5.0	19.5		

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657		
				1711.50 MHz	1745.00 MHz	1778.50 MHz		
3 MHz	QPSK	1	0	22.98	23.19	23.06	0.0	24.5
		1	8	22.45	23.13	23.14	0.0	24.5
		1	14	22.41	23.10	23.21	0.0	24.5
		8	0	21.14	22.49	22.36	1.0	23.5
		8	4	21.20	22.51	22.44	1.0	23.5
		8	7	21.23	22.51	22.48	1.0	23.5
	16QAM	15	0	21.23	22.52	22.44	1.0	23.5
		1	0	21.30	22.78	22.55	1.0	23.5
		1	8	21.40	22.77	22.65	1.0	23.5
		1	14	21.40	22.81	22.62	1.0	23.5
		8	0	20.45	21.57	21.53	2.0	22.5
		8	4	20.54	21.58	21.46	2.0	22.5
	64QAM	8	7	20.57	21.53	21.45	2.0	22.5
		15	0	20.55	21.52	21.41	2.0	22.5
		1	0	21.70	21.50	21.36	2.0	22.5
		1	8	21.54	21.46	21.34	2.0	22.5
		1	14	21.83	21.62	21.33	2.0	22.5
		8	0	20.49	20.51	20.34	3.0	21.5
	256QAM	8	4	20.51	20.45	20.33	3.0	21.5
		8	7	20.50	20.49	20.35	3.0	21.5
		15	0	20.42	20.48	20.34	3.0	21.5
		1	0	18.88	18.41	18.49	5.0	19.5
		1	8	18.73	18.32	18.34	5.0	19.5
		1	14	18.81	18.36	18.44	5.0	19.5
1.4 MHz	QPSK	8	0	18.52	18.49	18.29	5.0	19.5
		8	4	18.46	18.41	18.26	5.0	19.5
		8	7	18.50	18.45	18.18	5.0	19.5
		15	0	18.40	18.40	18.31	5.0	19.5
		1	0	22.16	23.52	23.46	0.0	24.5
		1	3	22.14	23.41	23.26	0.0	24.5
	16QAM	1	5	22.16	23.42	23.46	0.0	24.5
		3	0	22.08	23.33	23.31	0.0	24.5
		3	1	22.09	23.34	23.33	0.0	24.5
		3	3	22.09	23.34	23.34	0.0	24.5
		6	0	21.50	22.56	22.53	1.0	23.5
		1	0	21.58	22.61	22.70	1.0	23.5
	64QAM	1	3	21.59	22.51	22.81	1.0	23.5
		1	5	21.64	22.65	22.71	1.0	23.5
		3	0	21.55	22.53	22.36	1.0	23.5
		3	1	21.59	22.40	22.43	1.0	23.5
		3	3	21.57	22.51	22.36	1.0	23.5
		6	0	20.79	21.63	21.46	2.0	22.5
	256QAM	1	0	21.69	21.57	21.32	2.0	22.5
		1	3	21.63	21.61	21.46	2.0	22.5
		1	5	21.69	21.56	21.44	2.0	22.5
		3	0	21.51	21.45	21.30	2.0	22.5
		3	1	21.51	21.45	21.28	2.0	22.5
		3	3	21.53	21.42	21.35	2.0	22.5
QPSK	6	0	20.55	20.50	20.38	3.0	21.5	
	1	0	18.53	18.36	18.40	5.0	19.5	
	1	3	18.50	18.23	18.38	5.0	19.5	
	1	5	18.48	18.31	18.30	5.0	19.5	
	3	0	18.30	18.28	18.34	5.0	19.5	
	3	1	18.24	18.20	18.26	5.0	19.5	
16QAM	3	3	18.16	18.17	18.21	5.0	19.5	
	6	0	18.39	18.25	18.23	5.0	19.5	

LTE Band 66 (ANT SUB2)

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				132072	132322	132572		
				1720.00 MHz	1745.00 MHz	1770.00 MHz		
20 MHz	QPSK	1	0	23.31	23.49	23.59	0.0	24.0
		1	49	23.22	23.45	23.58	0.0	24.0
		1	99	23.34	23.50	23.57	0.0	24.0
		50	0	22.40	22.56	22.64	1.0	23.0
		50	24	22.41	22.55	22.61	1.0	23.0
		50	50	22.42	22.54	22.59	1.0	23.0
		100	0	22.41	22.54	22.61	1.0	23.0
	16QAM	1	0	22.80	22.75	22.88	1.0	23.0
		1	49	22.85	22.80	22.90	1.0	23.0
		1	99	22.85	22.73	22.79	1.0	23.0
		50	0	21.44	21.55	21.64	2.0	22.0
		50	24	21.4	21.5	21.6	2.0	22.0
		50	50	21.4	21.5	21.6	2.0	22.0
		100	0	21.42	21.54	21.62	2.0	22.0
	64QAM	1	0	21.72	21.75	21.89	2.0	22.0
		1	49	21.73	21.68	21.88	2.0	22.0
		1	99	21.79	21.74	21.79	2.0	22.0
		50	0	20.42	20.53	20.61	3.0	21.0
		50	24	20.45	20.54	20.60	3.0	21.0
		50	50	20.43	20.53	20.57	3.0	21.0
		100	0	20.43	20.48	20.58	3.0	21.0
	256QAM	1	0	18.52	18.64	18.59	5.0	19.0
		1	49	18.54	18.50	18.42	5.0	19.0
		1	99	18.53	18.65	18.52	5.0	19.0
		50	0	18.36	18.49	18.58	5.0	19.0
		50	24	18.37	18.49	18.58	5.0	19.0
		50	50	18.37	18.49	18.56	5.0	19.0
		100	0	18.35	18.48	18.57	5.0	19.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132047	132322	132597		
				1717.50 MHz	1745.00 MHz	1772.50 MHz		
				15 MHz	QPSK	1	0	21.83
1	37	22.03	21.99			22.20	0.0	24.0
1	74	21.82	21.95			22.07	0.0	24.0
36	0	21.84	21.98			22.13	1.0	23.0
36	20	21.84	21.97			22.10	1.0	23.0
36	39	21.85	21.98			22.09	1.0	23.0
75	0	21.85	21.99			22.12	1.0	23.0
16QAM	1	0	22.07		22.31	22.53	1.0	23.0
	1	37	22.28		22.43	22.77	1.0	23.0
	1	74	22.05		22.29	22.49	1.0	23.0
	36	0	21.36		21.54	21.68	2.0	22.0
	36	20	21.37		21.54	21.67	2.0	22.0
	36	39	21.38		21.56	21.66	2.0	22.0
	75	0	21.38		21.49	21.64	2.0	22.0
64QAM	1	0	21.33		21.50	21.39	2.0	22.0
	1	37	21.11		21.60	21.52	2.0	22.0
	1	74	21.45		21.54	21.37	2.0	22.0
	36	0	20.15		20.33	20.43	3.0	21.0
	36	20	20.15		20.33	20.43	3.0	21.0
	36	39	20.15		20.33	20.44	3.0	21.0
	75	0	20.15		20.27	20.40	3.0	21.0
256QAM	1	0	18.23		18.67	18.32	5.0	19.0
	1	37	18.37		18.73	18.31	5.0	19.0
	1	74	18.24		18.69	18.32	5.0	19.0
	36	0	18.10		18.27	18.34	5.0	19.0
	36	20	18.11		18.26	18.32	5.0	19.0
	36	39	18.12		18.26	18.33	5.0	19.0
	75	0	18.10		18.28	18.34	5.0	19.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132022	132322	132622		
				1715.00 MHz	1745.00 MHz	1775.00 MHz		
10 MHz	QPSK	1	0	21.82	21.97	22.09	0.0	24.0
		1	25	21.86	22.03	22.26	0.0	24.0
		1	49	21.88	21.95	22.09	0.0	24.0
		25	0	21.85	21.98	22.11	1.0	23.0
		25	12	21.84	21.97	22.09	1.0	23.0
		25	25	21.83	21.97	22.10	1.0	23.0
	16QAM	50	0	21.88	21.99	22.13	1.0	23.0
		1	0	22.08	22.23	22.60	1.0	23.0
		1	25	21.92	22.11	22.48	1.0	23.0
		1	49	22.03	22.27	22.54	1.0	23.0
		25	0	21.44	21.51	21.71	2.0	22.0
		25	12	21.42	21.52	21.69	2.0	22.0
	64QAM	25	25	21.42	21.52	21.70	2.0	22.0
		50	0	21.41	21.50	21.66	2.0	22.0
		1	0	21.36	21.56	21.41	2.0	22.0
		1	25	21.58	21.71	21.42	2.0	22.0
		1	49	21.34	21.65	21.47	2.0	22.0
		25	0	20.24	20.35	20.48	3.0	21.0
	256QAM	25	12	20.22	20.32	20.47	3.0	21.0
		25	25	20.22	20.35	20.45	3.0	21.0
		50	0	20.20	20.33	20.47	3.0	21.0
		1	0	18.21	18.66	18.32	5.0	19.0
		1	25	18.23	18.76	18.51	5.0	19.0
		1	49	18.23	18.70	18.30	5.0	19.0
5 MHz	QPSK	25	0	18.25	18.35	18.43	5.0	19.0
		25	12	18.24	18.32	18.43	5.0	19.0
		25	25	18.23	18.35	18.43	5.0	19.0
		50	0	18.16	18.33	18.40	5.0	19.0
		1	0	21.72	21.91	22.01	0.0	24.0
		1	12	21.73	22.02	22.23	0.0	24.0
	16QAM	1	24	21.77	21.92	22.04	0.0	24.0
		12	0	21.82	21.95	22.06	1.0	23.0
		12	7	21.84	21.95	22.05	1.0	23.0
		12	13	21.85	21.94	22.06	1.0	23.0
		25	0	21.83	21.95	22.06	1.0	23.0
		1	0	22.34	22.30	22.53	1.0	23.0
	64QAM	1	12	22.46	22.46	22.13	1.0	23.0
		1	24	22.38	22.28	22.47	1.0	23.0
		12	0	21.38	21.52	21.72	2.0	22.0
		12	7	21.39	21.52	21.72	2.0	22.0
		12	13	21.34	21.53	21.72	2.0	22.0
		25	0	21.36	21.49	21.63	2.0	22.0
	256QAM	1	0	21.05	21.68	21.50	2.0	22.0
		1	12	21.26	21.67	21.61	2.0	22.0
		1	24	21.14	21.68	21.57	2.0	22.0
		12	0	20.03	20.35	20.35	3.0	21.0
		12	7	20.05	20.36	20.35	3.0	21.0
		12	13	20.04	20.35	20.34	3.0	21.0
256QAM	25	0	20.12	20.28	20.35	3.0	21.0	
	1	0	18.08	18.54	18.20	5.0	19.0	
	1	12	18.00	18.70	18.36	5.0	19.0	
	1	24	18.07	18.54	18.22	5.0	19.0	
	12	0	18.08	18.35	18.39	5.0	19.0	
	12	7	18.09	18.34	18.40	5.0	19.0	
256QAM	12	13	18.08	18.33	18.39	5.0	19.0	
	25	0	18.08	18.25	18.37	5.0	19.0	

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657		
				1711.50 MHz	1745.00 MHz	1778.50 MHz		
3 MHz	QPSK	1	0	21.88	21.90	22.12	0.0	24.0
		1	8	22.08	22.00	22.25	0.0	24.0
		1	14	21.91	21.87	22.13	0.0	24.0
		8	0	21.87	22.00	22.08	1.0	23.0
		8	4	21.78	21.96	22.00	1.0	23.0
		8	7	21.82	21.98	22.03	1.0	23.0
	16QAM	15	0	21.85	21.98	22.08	1.0	23.0
		1	0	21.96	22.24	22.37	1.0	23.0
		1	8	22.12	22.41	22.63	1.0	23.0
		1	14	21.88	22.28	22.32	1.0	23.0
		8	0	21.39	21.61	21.63	2.0	22.0
		8	4	21.39	21.58	21.58	2.0	22.0
	64QAM	8	7	21.37	21.55	21.61	2.0	22.0
		15	0	21.43	21.54	21.62	2.0	22.0
		1	0	21.13	21.59	21.55	2.0	22.0
		1	8	21.23	21.69	21.68	2.0	22.0
		1	14	21.10	21.66	21.64	2.0	22.0
		8	0	20.19	20.32	20.39	3.0	21.0
	256QAM	8	4	20.18	20.25	20.41	3.0	21.0
		8	7	20.14	20.26	20.42	3.0	21.0
		15	0	20.13	20.28	20.41	3.0	21.0
		1	0	18.21	18.58	18.39	5.0	19.0
		1	8	18.37	18.63	18.45	5.0	19.0
		1	14	18.24	18.61	18.39	5.0	19.0
1.4 MHz	QPSK	8	0	18.12	18.34	18.39	5.0	19.0
		8	4	18.14	18.39	18.36	5.0	19.0
		8	7	18.17	18.36	18.38	5.0	19.0
		15	0	18.21	18.32	18.44	5.0	19.0
		1	0	21.90	21.96	21.83	0.0	24.0
		1	3	21.97	22.08	21.87	0.0	24.0
	16QAM	1	5	21.91	21.95	21.80	0.0	24.0
		3	0	22.00	22.05	21.71	0.0	24.0
		3	1	21.99	21.89	21.81	0.0	24.0
		3	3	21.87	21.91	21.86	0.0	24.0
		6	0	21.93	21.91	21.80	1.0	23.0
		1	0	22.13	22.25	21.87	1.0	23.0
	64QAM	1	3	22.38	22.33	21.74	1.0	23.0
		1	5	22.19	22.30	21.95	1.0	23.0
		3	0	21.93	22.10	21.86	1.0	23.0
		3	1	22.03	22.01	21.91	1.0	23.0
		3	3	22.06	22.07	21.90	1.0	23.0
		6	0	21.60	21.37	21.39	2.0	22.0
	256QAM	1	0	21.42	21.37	21.40	2.0	22.0
		1	3	21.45	21.38	21.66	2.0	22.0
		1	5	21.38	21.33	21.50	2.0	22.0
		3	0	21.42	21.49	21.45	2.0	22.0
		3	1	21.30	21.46	21.45	2.0	22.0
		3	3	21.35	21.43	21.34	2.0	22.0
QPSK	6	0	20.13	20.41	20.35	3.0	21.0	
	1	0	18.13	18.42	18.48	5.0	19.0	
	1	3	18.40	18.59	18.52	5.0	19.0	
	1	5	18.10	18.44	18.48	5.0	19.0	
	3	0	18.08	18.21	18.53	5.0	19.0	
	3	1	18.06	18.16	18.48	5.0	19.0	
16QAM	3	3	18.05	18.16	18.43	5.0	19.0	
	6	0	18.06	18.29	18.29	5.0	19.0	

LTE Band 66B (UL CA)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
20MHz (10MHz / 10MHz)	1715.0	1724.9	1	49	1	0	23.88	23.45
			1	0	1	49	16.29	16.37
			50	0	50	0	22.59	21.76
	1740.1	1750	1	49	1	0	24.11	23.47
			1	0	1	49	16.35	16.60
			50	0	50	0	22.35	21.70
	1765.1	1775.0	1	49	1	0	23.67	23.13
			1	0	1	49	16.64	16.61
			50	0	50	0	22.20	21.63

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
15MHz (5MHz / 10MHz)	1712.5	1719.7	1	24	1	0	23.46	22.77
			1	0	1	49	14.47	14.77
			25	0	50	0	22.14	21.67
	1740.2	1747.5	1	24	1	0	24.02	23.45
			1	0	1	49	14.56	14.80
			25	0	50	0	22.46	21.81
	1767.8	1775.0	1	24	1	0	23.76	23.12
			1	0	1	49	14.53	15.10
			25	0	50	0	22.57	22.00

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
10MHz (5MHz / 5MHz)	1712.5	1717.3	1	24	1	0	23.50	23.20
			1	0	1	24	14.86	15.22
			25	0	25	0	21.95	21.42
	1742.6	1747.4	1	24	1	0	23.90	23.33
			1	0	1	24	15.40	15.21
			25	0	25	0	22.40	21.77
	1772.7	1777.5	1	24	1	0	24.00	23.41
			1	0	1	24	15.16	15.70
			25	0	25	0	22.25	21.70

LTE Band 66C (UL CA)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
40MHz (20MHz / 20MHz)	1720.0	1739.8	1	99	1	0	24.46	23.73
			1	0	1	99	16.05	16.22
			100	0	100	0	22.52	21.48
	1735.1	1754.9	1	99	1	0	24.27	23.89
			1	0	1	99	16.08	16.20
			100	0	100	0	22.75	21.72
	1750.2	1770.0	1	99	1	0	24.12	23.74
			1	0	1	99	16.55	16.72
			100	0	100	0	22.76	21.72

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
35MHz (15MHz / 20MHz)	1717.5	1734.6	1	74	1	0	24.11	23.67
			1	0	1	99	16.08	16.35
			75	0	100	0	22.67	21.61
	1735.2	1752.3	1	74	1	0	24.23	23.61
			1	0	1	99	16.23	16.45
			75	0	100	0	22.56	21.63
	1752.9	1770.0	1	74	1	0	24.26	23.66
			1	0	1	99	16.20	16.60
			75	0	100	0	22.81	21.80

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
30MHz (15MHz / 15MHz)	1717.5	1732.5	1	74	1	0	24.28	23.40
			1	0	1	74	16.11	16.18
			75	0	75	0	22.68	21.66
	1737.5	1752.5	1	74	1	0	24.16	23.42
			1	0	1	74	16.30	16.49
			75	0	75	0	22.76	21.83
	1757.5	1772.5	1	74	1	0	24.44	23.72
			1	0	1	74	16.23	16.55
			75	0	75	0	22.81	21.86

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
25MHz (5MHz / 20MHz)	1712.5	1724.2	1	24	1	0	23.84	23.05
			1	0	1	99	15.92	16.38
			25	0	100	0	22.54	21.67
	1735.4	1747.1	1	24	1	0	24.04	23.78
			1	0	1	99	16.16	16.25
			25	0	100	0	22.50	21.62
	1758.3	1770.0	1	24	1	0	24.23	23.51
			1	0	1	99	16.53	16.71
			25	0	100	0	22.82	21.82

LTE Band 71

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				133222	133297	133372		
				673.00 MHz	680.50 MHz	688.00 MHz		
20 MHz	QPSK	1	0	23.35	24.15	23.59	0.0	25.0
		1	49	23.49	24.08	24.11	0.0	25.0
		1	99	23.16	23.89	23.92	0.0	25.0
		50	0	22.34	23.10	23.05	1.0	24.0
		50	24	22.32	23.03	23.04	1.0	24.0
		50	50	22.18	22.97	22.97	1.0	24.0
		100	0	22.28	23.04	22.99	1.0	24.0
	16QAM	1	0	22.64	23.52	23.44	1.0	24.0
		1	49	22.69	23.55	23.44	1.0	24.0
		1	99	22.49	23.28	23.24	1.0	24.0
		50	0	21.36	22.06	22.08	2.0	23.0
		50	24	21.3	22.0	22.1	2.0	23.0
		50	50	21.2	21.9	22.0	2.0	23.0
		100	0	21.18	22.01	22.09	2.0	23.0
	64QAM	1	0	21.59	22.98	22.17	2.0	23.0
		1	49	21.55	22.98	22.13	2.0	23.0
		1	99	21.49	22.98	21.87	2.0	23.0
		50	0	20.34	21.93	21.10	3.0	22.0
		50	24	20.30	21.90	21.01	3.0	22.0
		50	50	20.22	21.85	21.01	3.0	22.0
		100	0	20.23	21.91	21.05	3.0	22.0
	256QAM	1	0	18.45	18.94	19.29	5.0	20.0
		1	49	18.58	18.83	19.36	5.0	20.0
		1	99	18.31	18.74	19.20	5.0	20.0
		50	0	18.30	18.94	19.01	5.0	20.0
		50	24	18.20	18.88	18.95	5.0	20.0
		50	50	18.15	18.86	18.82	5.0	20.0
		100	0	18.21	18.89	18.90	5.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				133197	133297	133397		
				670.50 MHz	680.50 MHz	690.50 MHz		
				15 MHz	QPSK	1	0	23.15
1	37	23.00	23.67			24.11	0.0	25.0
1	74	22.99	23.71			23.98	0.0	25.0
36	0	22.19	22.96			23.15	1.0	24.0
36	20	22.20	22.89			23.21	1.0	24.0
36	39	22.15	22.84			23.10	1.0	24.0
75	0	22.18	22.89			23.17	1.0	24.0
16QAM	1	0	22.56		23.10	23.54	1.0	24.0
	1	37	22.61		22.87	23.51	1.0	24.0
	1	74	22.34		22.87	23.31	1.0	24.0
	36	0	21.24		21.94	22.22	2.0	23.0
	36	20	21.2		21.9	22.1	2.0	23.0
	36	39	21.1		21.8	22.2	2.0	23.0
	75	0	21.16		21.86	22.11	2.0	23.0
64QAM	1	0	21.63		21.88	22.31	2.0	23.0
	1	37	21.58		21.70	22.08	2.0	23.0
	1	74	21.39		21.75	22.12	2.0	23.0
	36	0	20.30		20.66	21.07	3.0	22.0
	36	20	20.29		20.61	21.05	3.0	22.0
	36	39	20.24		20.56	21.00	3.0	22.0
	75	0	20.21		20.64	21.09	3.0	22.0
256QAM	1	0	18.45		18.77	19.29	5.0	20.0
	1	37	18.15		18.61	19.12	5.0	20.0
	1	74	18.06		18.59	18.99	5.0	20.0
	36	0	18.20		18.61	19.08	5.0	20.0
	36	20	18.13		18.52	18.98	5.0	20.0
	36	39	18.10		18.49	18.90	5.0	20.0
	75	0	18.12		18.58	19.04	5.0	20.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				133172	133297	133422		
				668.00 MHz	680.50 MHz	693.00 MHz		
10 MHz	QPSK	1	0	23.44	23.98	24.16	0.0	25.0
		1	25	23.37	23.95	24.03	0.0	25.0
		1	49	23.34	23.83	24.09	0.0	25.0
		25	0	22.44	22.94	23.14	1.0	24.0
		25	12	22.39	22.90	23.09	1.0	24.0
		25	25	22.34	22.85	23.08	1.0	24.0
	16QAM	50	0	22.38	22.91	23.10	1.0	24.0
		1	0	22.48	23.20	23.61	1.0	24.0
		1	25	22.50	23.18	23.50	1.0	24.0
		1	49	22.29	23.10	23.47	1.0	24.0
		25	0	21.39	21.93	22.20	2.0	23.0
		25	12	21.4	21.9	22.1	2.0	23.0
	64QAM	25	25	21.3	21.9	22.1	2.0	23.0
		50	0	21.36	21.89	22.07	2.0	23.0
		1	0	21.36	21.79	22.01	2.0	23.0
		1	25	21.46	21.90	21.93	2.0	23.0
		1	49	21.32	21.73	21.90	2.0	23.0
		25	0	20.23	20.69	20.94	3.0	22.0
	256QAM	25	12	20.20	20.63	20.88	3.0	22.0
		25	25	20.16	20.62	20.88	3.0	22.0
		50	0	20.20	20.64	20.88	3.0	22.0
		1	0	18.17	18.99	19.07	5.0	20.0
		1	25	18.01	18.78	19.05	5.0	20.0
		1	49	18.00	18.87	18.96	5.0	20.0
5 MHz	QPSK	25	0	18.22	18.69	18.97	5.0	20.0
		25	12	18.16	18.65	18.93	5.0	20.0
		25	25	18.12	18.61	18.89	5.0	20.0
		50	0	18.12	18.63	18.85	5.0	20.0
		1	0	23.15	23.84	24.03	0.0	25.0
		1	12	23.12	23.81	23.80	0.0	25.0
	16QAM	1	24	23.19	23.81	24.03	0.0	25.0
		12	0	22.25	22.82	23.07	1.0	24.0
		12	7	22.25	22.80	23.05	1.0	24.0
		12	13	22.21	22.79	23.03	1.0	24.0
		25	0	22.22	22.80	23.07	1.0	24.0
		1	0	22.69	23.09	23.53	1.0	24.0
	64QAM	1	12	22.58	22.99	23.23	1.0	24.0
		1	24	22.72	23.01	23.48	1.0	24.0
		12	0	21.27	21.85	22.18	2.0	23.0
		12	7	21.3	21.8	22.2	2.0	23.0
		12	13	21.2	21.8	22.2	2.0	23.0
		25	0	21.26	21.78	22.06	2.0	23.0
	256QAM	1	0	21.31	22.05	22.00	2.0	23.0
		1	12	21.32	21.94	21.92	2.0	23.0
		1	24	21.36	21.96	22.00	2.0	23.0
		12	0	20.21	20.72	20.92	3.0	22.0
		12	7	20.18	20.70	20.91	3.0	22.0
		12	13	20.19	20.68	20.89	3.0	22.0
QPSK	25	0	20.20	20.76	20.93	3.0	22.0	
	1	0	18.19	19.07	18.95	5.0	20.0	
	1	12	18.08	18.86	18.83	5.0	20.0	
	1	24	18.12	18.97	18.87	5.0	20.0	
	12	0	18.19	18.81	18.95	5.0	20.0	
	12	7	18.18	18.80	18.92	5.0	20.0	
16QAM	12	13	18.18	18.75	18.89	5.0	20.0	
	25	0	18.22	18.70	18.94	5.0	20.0	

NR Band n12

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					141300	141500	141700		
					706.50 MHz	707.50 MHz	708.50 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.49	23.49	23.40	0.0	25.0
			1	40	23.51	23.50	23.41	0.0	25.0
			1	77	23.45	23.39	23.32	0.0	25.0
			36	0	22.64	22.57	22.49	0.5	24.5
			36	22	23.63	23.61	23.53	0.0	25.0
			36	43	22.61	22.55	22.45	0.5	24.5
			75	0	22.64	22.61	22.55	0.5	24.5
		QPSK	1	1	23.55	23.49	23.46	0.0	25.0
			1	40	23.56	23.53	23.47	0.0	25.0
			1	77	23.47	23.42	23.34	0.0	25.0
			36	0	22.68	22.57	22.54	1.0	24.0
			36	22	23.65	23.60	23.56	0.0	25.0
			36	43	22.62	22.55	22.46	1.0	24.0
			75	0	22.65	22.61	22.58	1.0	24.0
		16QAM	1	1	22.55	22.55	22.47	1.0	24.0
1	40		22.50	22.57	22.43	1.0	24.0		
1	77		22.48	22.48	22.44	1.0	24.0		
64QAM	1	1	21.05	21.01	21.00	2.5	22.5		
256QAM	1	1	19.00	18.87	18.92	4.5	20.5		
CP-OFDM	QPSK	1	1	22.01	22.05	21.97	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					140800	141500	142200		
					704.00 MHz	707.50 MHz	711.00 MHz		
					10 MHz	DFT-s-OFDM	π/2 BPSK	1	1
1	26	24.04	23.96	23.92				0.0	25.0
1	50	23.99	23.92	23.78				0.0	25.0
25	0	23.03	23.01	23.01				0.5	24.5
25	14	24.06	24.00	23.95				0.0	25.0
25	27	23.04	23.03	22.89				0.5	24.5
50	0	23.08	23.02	22.99				0.5	24.5
QPSK	1	1	24.01	24.00			23.99	0.0	25.0
	1	26	24.12	24.09			24.14	0.0	25.0
	1	50	24.04	23.97			23.82	0.0	25.0
	25	0	23.06	23.04			23.02	1.0	24.0
	25	14	24.07	24.03			23.98	0.0	25.0
	25	27	23.07	23.03			22.90	1.0	24.0
	50	0	23.10	23.05			22.99	1.0	24.0
16QAM	1	1	23.01	22.97			22.99	1.0	24.0
64QAM	1	1	21.60	21.57	21.44	2.5	22.5		
256QAM	1	1	19.45	19.50	19.46	4.5	20.5		
CP-OFDM	QPSK	1	1	22.46	22.53	22.47	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					140300	141500	142700		
					701.50 MHz	707.50 MHz	713.50 MHz		
					5 MHz	DFT-s-OFDM	π/2 BPSK	1	1
1	13	23.82	23.94	23.68				0.0	25.0
1	23	23.96	24.03	23.74				0.0	25.0
12	0	22.96	23.04	22.87				0.5	24.5
12	7	23.96	24.05	23.82				0.0	25.0
12	13	22.98	23.05	22.82				0.5	24.5
25	0	22.98	23.07	22.85				0.5	24.5
QPSK	1	1	23.95	24.05			23.90	0.0	25.0
	1	13	23.89	23.98			23.76	0.0	25.0
	1	23	24.01	24.06			23.80	0.0	25.0
	12	0	22.98	23.06			22.91	1.0	24.0
	12	7	23.96	24.07			23.85	0.0	25.0
	12	13	23.00	23.07			22.85	1.0	24.0
	25	0	23.00	23.07			22.88	1.0	24.0
16QAM	1	1	22.95	23.06			22.83	1.0	24.0
64QAM	1	1	21.44	21.61	21.51	2.5	22.5		
256QAM	1	1	19.43	19.47	19.35	4.5	20.5		
CP-OFDM	QPSK	1	1	22.53	22.58	22.45	1.5	23.5	

NR Band n30

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)							
					Measured Pwr (dBm)			MPR	Tune-up Limit			
					461500	462000	462500					
					2307.50 MHz	2310.00 MHz	2312.50 MHz					
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1		21.97			0.0	23.5		
			1	26		22.07			0.0	23.5		
			1	50		22.32			0.0	23.5		
			25	0		21.11			0.5	23.0		
			25	14		22.13			0.0	23.5		
			25	27		21.28			0.5	23.0		
				QPSK	1	1		22.14			0.0	23.5
					1	26		22.19			0.0	23.5
					1	50		22.36			0.0	23.5
					25	0		21.18			1.0	22.5
					25	14		22.20			0.0	23.5
					25	27		21.36			1.0	22.5
				16QAM	50	0		21.21			1.0	22.5
					1	1		21.20			1.0	22.5
			1		26		21.39			1.0	22.5	
		64QAM	1	50		21.46			1.0	22.5		
			1	1		19.59			2.5	21.0		
		256QAM	1	1		17.64			4.5	19.0		
	CP-OFDM	QPSK	1	1		20.61			1.5	22.0		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1		22.51	22.47	22.36	0.0	23.5		
			1	13		22.48	22.45	22.42	0.0	23.5		
			1	23		22.57	22.61	22.57	0.0	23.5		
			12	0		21.61	21.59	21.60	0.5	23.0		
			12	7		22.64	22.63	22.62	0.0	23.5		
			12	13		21.64	21.67	21.67	0.5	23.0		
				QPSK	25	0		21.65	21.67	21.69	0.5	23.0
					1	1		22.67	22.67	22.68	0.0	23.5
					1	13		22.57	22.62	22.62	0.0	23.5
					1	23		22.69	22.75	22.74	0.0	23.5
					12	0		21.69	21.67	21.73	1.0	22.5
					12	7		22.69	22.70	22.73	0.0	23.5
				16QAM	12	13		21.71	21.75	21.77	1.0	22.5
					1	1		21.71	21.72	21.70	1.0	22.5
			1		1		20.21	20.25	20.32	2.5	21.0	
		64QAM	1	1		18.11	18.13	18.09	4.5	19.0		
	CP-OFDM	QPSK	1	1		21.20	21.14	21.18	1.5	22.0		

NR Band n41 (PC2)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					509202	518598	528000		
					2546.01 MHz	2592.99 MHz	2640.00 MHz		
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.13	26.35	26.64	0.0	27.5
			1	137	26.52	26.77	26.20	0.0	27.5
			1	271	26.79	26.13	26.41	0.0	27.5
			135	0	26.09	25.84	25.98	0.5	27.0
			135	69	26.51	26.78	26.29	0.0	27.5
			135	138	25.84	25.86	25.91	0.5	27.0
			270	0	26.02	26.19	25.80	0.5	27.0
		QPSK	1	1	26.17	26.37	26.60	0.0	27.5
			1	137	26.46	26.77	26.24	0.0	27.5
			1	271	26.73	26.10	26.39	0.0	27.5
			135	0	25.57	25.34	25.43	1.0	26.5
			135	69	26.50	26.80	26.28	0.0	27.5
			135	138	25.33	25.38	25.40	1.0	26.5
			270	0	25.48	25.69	25.28	1.0	26.5
		16QAM	1	1	25.08	25.29	25.65	1.0	26.5
			1	137	25.27	25.80	25.11	1.0	26.5
			1	271	25.71	25.11	25.37	1.0	26.5
64QAM	1	1	23.87	23.86	24.20	2.5	25.0		
256QAM	1	1	22.12	22.25	22.42	4.5	23.0		
CP-OFDM	QPSK	1	1	24.60	24.80	25.12	1.5	26.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					508200	518598	528996		
					2541.00 MHz	2592.99 MHz	2644.98 MHz		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.23	26.42	26.81	0.0	27.5
			1	123	26.53	26.76	26.22	0.0	27.5
			1	243	26.49	26.12	26.46	0.0	27.5
			120	0	26.06	25.81	25.81	0.5	27.0
			120	63	26.60	26.80	26.32	0.0	27.5
			120	125	25.84	25.94	25.94	0.5	27.0
			243	0	26.03	26.17	25.84	0.5	27.0
		QPSK	1	1	26.20	26.30	26.80	0.0	27.5
			1	123	26.61	26.81	26.26	0.0	27.5
			1	243	26.48	26.13	26.40	0.0	27.5
			120	0	25.54	25.34	25.29	1.0	26.5
			120	63	26.60	26.80	26.31	0.0	27.5
			120	125	25.28	25.48	25.45	1.0	26.5
			243	0	25.49	25.70	25.30	1.0	26.5
		16QAM	1	1	25.19	25.31	25.73	1.0	26.5
		64QAM	1	1	23.63	24.24	24.29	2.5	25.0
		256QAM	1	1	22.72	22.96	22.87	4.5	23.0
CP-OFDM	QPSK	1	1	24.63	24.86	25.24	1.5	26.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					507204	518598	529998		
					2536.02 MHz	2592.99 MHz	2649.99 MHz		
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.25	26.22	26.61	0.0	27.5
			1	109	26.53	26.80	26.25	0.0	27.5
			1	215	26.28	26.10	26.47	0.0	27.5
			108	0	26.06	25.86	25.69	0.5	27.0
			108	55	26.66	26.79	26.37	0.0	27.5
			108	109	25.81	26.02	25.91	0.5	27.0
			216	0	26.08	26.21	25.89	0.5	27.0
		QPSK	1	1	26.19	26.29	26.54	0.0	27.5
			1	109	26.55	26.79	26.31	0.0	27.5
			1	215	26.30	26.15	26.41	0.0	27.5
			108	0	25.49	25.37	25.18	1.0	26.5
			108	55	26.64	26.79	26.30	0.0	27.5
			108	109	25.27	25.52	25.40	1.0	26.5
			216	0	25.54	25.70	25.38	1.0	26.5
		16QAM	1	1	25.15	25.09	25.58	1.0	26.5
		64QAM	1	1	24.02	23.97	23.87	2.5	25.0
		256QAM	1	1	22.64	22.83	23.00	4.5	23.0
CP-OFDM	QPSK	1	1	24.72	24.80	25.05	1.5	26.0	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					506202	518598	531000		
					2531.01 MHz	2592.99 MHz	2655.00 MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.13	26.18	26.22	0.0	27.5
			1	95	26.61	26.77	26.34	0.0	27.5
			1	188	26.11	26.13	26.35	0.0	27.5
			90	0	25.90	25.88	25.65	0.5	27.0
			90	50	26.67	26.76	26.39	0.0	27.5
			90	99	25.92	26.05	25.93	0.5	27.0
		180	0	26.05	26.24	25.86	0.5	27.0	
		QPSK	1	1	26.08	26.16	26.33	0.0	27.5
			1	95	26.64	26.74	26.32	0.0	27.5
			1	188	26.09	26.15	26.34	0.0	27.5
			90	0	25.35	25.35	25.13	1.0	26.5
			90	50	26.65	26.80	26.36	0.0	27.5
			90	99	25.38	25.55	25.44	1.0	26.5
		180	0	25.58	25.70	25.37	1.0	26.5	
16QAM	1	1	25.04	25.27	25.22	1.0	26.5		
64QAM	1	1	23.58	23.61	23.82	2.5	25.0		
256QAM	1	1	22.63	22.57	22.89	4.5	23.0		
CP-OFDM	QPSK	1	1	24.56	24.73	24.76	1.5	26.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					505200	518598	531996		
					2526.00 MHz	2592.99 MHz	2659.98 MHz		
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.15	26.21	26.11	0.0	27.5
			1	81	26.66	26.71	26.33	0.0	27.5
			1	160	26.22	26.22	26.37	0.0	27.5
			81	0	25.84	25.93	25.69	0.5	27.0
			81	41	26.63	26.78	26.40	0.0	27.5
			81	81	26.06	26.17	25.92	0.5	27.0
		162	0	26.08	26.18	25.92	0.5	27.0	
		QPSK	1	1	26.10	26.18	26.05	0.0	27.5
			1	81	26.75	26.81	26.35	0.0	27.5
			1	160	26.26	26.28	26.36	0.0	27.5
			81	0	25.37	25.42	25.19	1.0	26.5
			81	41	26.65	26.76	26.42	0.0	27.5
			81	81	25.52	25.63	25.39	1.0	26.5
		162	0	25.57	25.70	25.39	1.0	26.5	
16QAM	1	1	25.04	25.14	25.10	1.0	26.5		
64QAM	1	1	23.62	23.61	23.81	2.5	25.0		
256QAM	1	1	22.47	22.97	22.65	4.5	23.0		
CP-OFDM	QPSK	1	1	24.58	24.64	24.59	1.5	26.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					504204	518598	532998		
					2521.02 MHz	2592.99 MHz	2664.99 MHz		
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.01	26.29	26.14	0.0	27.5
			1	67	26.65	26.76	26.35	0.0	27.5
			1	131	26.38	26.41	26.39	0.0	27.5
			64	0	25.82	25.96	25.73	0.5	27.0
			64	35	26.63	26.72	26.41	0.0	27.5
			64	69	26.09	26.15	25.89	0.5	27.0
		128	0	26.06	26.19	25.88	0.5	27.0	
		QPSK	1	1	26.16	26.24	26.13	0.0	27.5
			1	67	26.62	26.84	26.39	0.0	27.5
			1	131	26.44	26.43	26.40	0.0	27.5
			64	0	25.29	25.46	25.24	1.0	26.5
			64	35	26.62	26.78	26.42	0.0	27.5
			64	69	25.61	25.69	25.40	1.0	26.5
		128	0	25.53	25.75	25.39	1.0	26.5	
16QAM	1	1	25.03	25.27	25.00	1.0	26.5		
64QAM	1	1	23.52	23.68	23.59	2.5	25.0		
256QAM	1	1	22.54	22.90	22.56	4.5	23.0		
CP-OFDM	QPSK	1	1	24.66	24.73	24.57	1.5	26.0	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					503202	518598	534000		
					2516.01 MHz	2592.99 MHz	2670.00 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.10	26.20	26.17	0.0	27.5
			1	53	26.56	26.74	26.39	0.0	27.5
			1	104	26.54	26.58	26.42	0.0	27.5
			50	0	25.74	26.02	25.83	0.5	27.0
			50	28	26.48	26.75	26.45	0.0	27.5
			50	56	26.10	26.22	25.90	0.5	27.0
		100	0	25.95	26.20	25.89	0.5	27.0	
		QPSK	1	1	26.11	26.27	26.15	0.0	27.5
			1	53	26.53	26.79	26.42	0.0	27.5
			1	104	26.52	26.51	26.43	0.0	27.5
			50	0	25.23	25.50	25.32	1.0	26.5
			50	28	26.52	26.80	26.45	0.0	27.5
			50	56	25.62	25.70	25.43	1.0	26.5
		100	0	25.42	25.69	25.41	1.0	26.5	
16QAM	1	1	25.21	25.48	25.18	1.0	26.5		
64QAM	1	1	23.65	23.61	23.64	2.5	25.0		
256QAM	1	1	22.60	22.84	22.71	4.5	23.0		
CP-OFDM	QPSK	1	1	24.61	24.75	24.68	1.5	26.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					502200	518598	534996		
					2511.00 MHz	2592.99 MHz	2674.98 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.14	26.37	26.25	0.0	27.5
			1	39	26.36	26.77	26.48	0.0	27.5
			1	76	26.52	26.72	26.45	0.0	27.5
			36	0	25.64	26.06	25.83	0.5	27.0
			36	21	26.30	26.74	26.43	0.0	27.5
			36	42	26.02	26.25	25.94	0.5	27.0
		75	0	25.75	26.18	25.95	0.5	27.0	
		QPSK	1	1	26.10	26.38	26.26	0.0	27.5
			1	39	26.32	26.79	26.44	0.0	27.5
			1	76	26.58	26.65	26.40	0.0	27.5
			36	0	25.19	25.58	25.33	1.0	26.5
			36	21	26.41	26.74	26.41	0.0	27.5
			36	42	25.57	25.76	25.42	1.0	26.5
		75	0	25.34	25.70	25.40	1.0	26.5	
16QAM	1	1	25.05	25.37	25.08	1.0	26.5		
64QAM	1	1	23.76	23.87	23.82	2.5	25.0		
256QAM	1	1	22.75	22.68	22.72	4.5	23.0		
CP-OFDM	QPSK	1	1	24.60	24.76	24.74	1.5	26.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					501204	518598	535998		
					2506.02 MHz	2592.99 MHz	2679.99 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.19	26.42	26.38	0.0	27.5
			1	26	25.74	26.11	25.92	0.0	27.5
			1	49	25.79	26.20	25.90	0.0	27.5
			25	0	25.91	26.27	25.89	0.5	27.0
			25	13	26.34	26.77	26.38	0.0	27.5
			25	26	25.86	26.29	25.87	0.5	27.0
		50	0	25.71	25.17	25.91	0.5	27.0	
		QPSK	1	1	26.15	26.50	26.32	0.0	27.5
			1	26	25.15	25.61	25.39	0.0	27.5
			1	49	25.21	25.65	25.44	0.0	27.5
			25	0	25.33	25.76	25.35	1.0	26.5
			25	13	26.31	26.78	26.39	0.0	27.5
			25	26	25.36	25.76	25.43	1.0	26.5
		50	0	25.92	25.19	25.90	1.0	26.5	
16QAM	1	1	24.97	25.48	25.36	1.0	26.5		
64QAM	1	1	23.62	23.79	23.88	2.5	25.0		
256QAM	1	1	22.62	22.79	22.83	4.5	23.0		
CP-OFDM	QPSK	1	1	24.65	25.01	24.91	1.5	26.0	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					500700	518598	536496		
					2503.50 MHz	2592.99 MHz	2682.48MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.22	26.58	26.43	0.0	27.5
			1	19	26.20	26.73	26.38	0.0	27.5
			1	36	26.38	26.80	26.41	0.0	27.5
			18	0	25.70	26.16	25.91	0.5	27.0
			18	10	26.22	26.73	26.43	0.0	27.5
			18	20	25.85	26.32	25.93	0.5	27.0
		36	0	25.70	26.24	25.91	0.5	27.0	
		QPSK	1	1	26.21	26.59	26.46	0.0	27.5
			1	19	26.15	26.75	26.42	0.0	27.5
			1	36	26.39	26.78	26.42	0.0	27.5
			18	0	25.21	25.68	25.45	1.0	26.5
			18	10	26.23	26.77	26.38	0.0	27.5
			18	20	25.29	25.78	25.41	1.0	26.5
		36	0	25.17	25.76	25.39	1.0	26.5	
16QAM	1	1	25.20	25.63	25.42	1.0	26.5		
64QAM	1	1	23.58	24.22	24.06	2.5	25.0		
256QAM	1	1	22.84	22.89	22.91	4.5	23.0		
CP-OFDM	QPSK	1	1	24.70	25.08	24.97	1.5	26.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					500202	518598	537000		
					2501.01 MHz	2592.99 MHz	2685.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.17	26.56	26.45	0.0	27.5
			1	12	26.23	26.79	26.38	0.0	27.5
			1	22	26.17	26.76	26.40	0.0	27.5
			12	0	25.72	26.24	25.86	0.5	27.0
			12	6	26.20	26.79	26.39	0.0	27.5
			12	12	25.74	26.33	25.94	0.5	27.0
		24	0	25.73	26.24	25.88	0.5	27.0	
		QPSK	1	1	26.24	26.65	26.42	0.0	27.5
			1	12	26.21	26.68	26.45	0.0	27.5
			1	22	26.25	26.81	26.47	0.0	27.5
			12	0	25.20	25.73	25.41	1.0	26.5
			12	6	26.20	26.77	26.42	0.0	27.5
			12	12	25.20	25.78	25.43	1.0	26.5
		24	0	25.12	25.69	25.43	1.0	26.5	
16QAM	1	1	25.16	25.59	25.43	1.0	26.5		
64QAM	1	1	23.58	24.08	23.81	2.5	25.0		
256QAM	1	1	22.59	22.41	22.80	4.5	23.0		
CP-OFDM	QPSK	1	1	24.67	25.33	24.93	1.5	26.0	

NR Band n41 (PC2, SRS1, ANT SUB2)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm) SRS1				MPR	Tune-up Limit
			Measured Pwr (dBm)					
100 MHz	1	1	509202	518598	528000	0.0	26.0	
			2546.01 MHz	2592.99 MHz	2640.00 MHz			
			24.68	24.14	24.91			
90 MHz	1	1	508200	518598	528996	0.0	26.0	
			2541 MHz	2592.99 MHz	2644.98 MHz			
			24.91	23.89	24.83			
80 MHz	1	1	507204	518598	529998	0.0	26.0	
			2536.02 MHz	2592.99 MHz	2649.99 MHz			
			24.82	24.01	24.39			
70 MHz	1	1	506202	518598	531996	0.0	26.0	
			2531.02 MHz	2592.99 MHz	2659.98 MHz			
			24.78	24.02	24.22			
60 MHz	1	1	505200	518598	531996	0.0	26.0	
			2526 MHz	2592.99 MHz	2659.98 MHz			
			24.54	24.06	24.12			
50 MHz	1	1	504204	518598	532998	0.0	26.0	
			2521.01 MHz	2592.99 MHz	2665 MHz			
			24.25	23.87	23.91			
40 MHz	1	1	503202	518598	534000	0.0	26.0	
			2516.01 MHz	2592.99 MHz	2670 MHz			
			23.95	24.06	23.93			
30 MHz	1	1	502200	518598	534996	0.0	26.0	
			2511 MHz	2592.99 MHz	2675.0 MHz			
			23.82	24.01	24.20			
20 MHz	1	1	501204	518598	535998	0.0	26.0	
			2506.02 MHz	2592.99 MHz	2679.99 MHz			
			23.94	24.16	24.62			
15 MHz	1	1	500700	518598	536496	0.0	26.0	
			2503.5 MHz	2592.99 MHz	2682.48MHz			
			24.03	24.14	24.83			
10 MHz	1	1	500202	518598	537000	0.0	26.0	
			2501.01 MHz	2592.99 MHz	2685 MHz			
			24.03	24.16	25.03			

NR Band n41 (PC2, SRS2, ANT SUB4)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm) SRS2				Tune-up Limit
			Measured Pwr (dBm)			MPR	
100 MHz	1	1	509202	518598	528000	MPR	26.0
			2546.01 MHz	2592.99 MHz	2640.00 MHz		
			23.93	24.89	24.88	0.0	
90 MHz	1	1	508200	518598	528996	MPR	26.0
			2541 MHz	2592.99 MHz	2644.98 MHz		
			23.80	24.98	24.98	0.0	
80 MHz	1	1	507204	518598	529998	MPR	26.0
			2536.02 MHz	2592.99 MHz	2649.99 MHz		
			23.76	24.93	24.87	0.0	
70 MHz	1	1	506202	518598	531996	MPR	26.0
			2531.02 MHz	2592.99 MHz	2659.98 MHz		
			23.78	24.98	24.93	0.0	
60 MHz	1	1	505200	518598	531996	MPR	26.0
			2526 MHz	2592.99 MHz	2659.98 MHz		
			23.81	24.92	24.83	0.0	
50 MHz	1	1	504204	518598	532998	MPR	26.0
			2521.01 MHz	2592.99 MHz	2665 MHz		
			23.71	24.94	24.72	0.0	
40 MHz	1	1	503202	518598	534000	MPR	26.0
			2516.01 MHz	2592.99 MHz	2670 MHz		
			23.86	24.81	24.75	0.0	
30 MHz	1	1	502200	518598	534996	MPR	26.0
			2511 MHz	2592.99 MHz	2675.0 MHz		
			23.92	24.91	24.76	0.0	
20 MHz	1	1	501204	518598	535998	MPR	26.0
			2506.02 MHz	2592.99 MHz	2679.99 MHz		
			23.82	25.01	24.91	0.0	
15 MHz	1	1	500700	518598	536496	MPR	26.0
			2503.5 MHz	2592.99 MHz	2682.48MHz		
			23.60	25.01	24.78	0.0	
10 MHz	1	1	500202	518598	537000	MPR	26.0
			2501.01 MHz	2592.99 MHz	2685 MHz		
			23.63	25.02	24.85	0.0	

NR Band n41 (PC2, SRS3, ANT SUB1)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm) SRS3				Tune-up Limit
			Measured Pwr (dBm)			MPR	
100 MHz	1	1	509202	518598	528000	MPR	22.0
			2546.01 MHz	2592.99 MHz	2640.00 MHz		
			20.74	20.55	20.10	0.0	
90 MHz	1	1	508200	518598	528996	MPR	22.0
			2541 MHz	2592.99 MHz	2644.98 MHz		
			20.78	20.61	19.95	0.0	
80 MHz	1	1	507204	518598	529998	MPR	22.0
			2536.02 MHz	2592.99 MHz	2649.99 MHz		
			20.68	21.16	19.77	0.0	
70 MHz	1	1	506202	518598	531996	MPR	22.0
			2531.02 MHz	2592.99 MHz	2659.98 MHz		
			20.96	21.34	19.71	0.0	
60 MHz	1	1	505200	518598	531996	MPR	22.0
			2526 MHz	2592.99 MHz	2659.98 MHz		
			21.02	21.26	19.61	0.0	
50 MHz	1	1	504204	518598	532998	MPR	22.0
			2521.01 MHz	2592.99 MHz	2665 MHz		
			21.38	21.07	19.62	0.0	
40 MHz	1	1	503202	518598	534000	MPR	22.0
			2516.01 MHz	2592.99 MHz	2670 MHz		
			21.11	20.97	20.18	0.0	
30 MHz	1	1	502200	518598	534996	MPR	22.0
			2511 MHz	2592.99 MHz	2675.0 MHz		
			21.18	20.97	20.33	0.0	
20 MHz	1	1	501204	518598	535998	MPR	22.0
			2506.02 MHz	2592.99 MHz	2679.99 MHz		
			21.17	21.12	20.73	0.0	
15 MHz	1	1	500700	518598	536496	MPR	22.0
			2503.5 MHz	2592.99 MHz	2682.48MHz		
			21.05	21.13	20.63	0.0	
10 MHz	1	1	500202	518598	537000	MPR	22.0
			2501.01 MHz	2592.99 MHz	2685 MHz		
			21.16	21.12	20.57	0.0	

NR Band n66

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)						
					Measured Pwr (dBm)			MPR	Tune-up Limit		
					346000	349000	352000				
					1730.00 MHz	1745.00 MHz	1760.00 MHz				
40 MHz	DFT-s-OFDM	π/2 BPSK		1	23.45	23.19	23.23	0.0	25.0		
			1	108	23.86	23.49	23.64	0.0	25.0		
			1	214	23.89	23.50	23.68	0.0	25.0		
			108	0	22.97	22.42	22.90	0.5	24.5		
			108	54	23.86	23.60	23.87	0.0	25.0		
			108	108	22.91	22.72	22.89	0.5	24.5		
				216	0	22.85	22.61	22.89	0.5	24.5	
				QPSK	1	1	23.05	23.35	23.74	0.0	25.0
					1	108	23.97	23.68	23.94	0.0	25.0
					1	214	24.02	23.59	23.91	0.0	25.0
					108	0	22.74	22.50	22.99	1.0	24.0
					108	54	23.95	23.67	23.97	0.0	25.0
					108	108	22.96	22.79	22.98	1.0	24.0
					216	0	22.90	22.66	22.95	1.0	24.0
				16QAM	1	1	22.33	22.42	22.81	1.0	24.0
			1		108	22.94	22.71	23.09	1.0	24.0	
		1	214		22.94	22.63	22.93	1.0	24.0		
		64QAM	1	1	21.17	21.00	21.29	2.5	22.5		
		256QAM	1	1	19.09	18.95	18.81	4.5	20.5		
	CP-OFDM	QPSK	1	1	21.45	21.88	21.84	1.5	23.5		
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit		
					345000	349000	353000				
					1725.00 MHz	1745.00 MHz	1765.00 MHz				
30 MHz	DFT-s-OFDM	π/2 BPSK		1	1	22.89	23.63	23.74	0.0	25.0	
				1	80	23.67	23.64	22.89	0.0	25.0	
				1	158	23.43	23.61	23.75	0.0	25.0	
				80	0	22.65	22.82	22.80	0.5	24.5	
				80	40	23.69	23.61	22.84	0.0	25.0	
				80	80	22.62	23.18	23.43	0.5	24.5	
				160	0	22.69	22.93	23.66	0.5	24.5	
				QPSK	1	1	22.56	23.61	23.57	0.0	25.0
					1	80	22.74	23.64	22.78	0.0	25.0
					1	158	22.54	23.57	23.64	0.0	25.0
					80	0	22.14	22.91	22.83	1.0	24.0
					80	40	22.51	23.61	22.85	0.0	25.0
					80	80	21.88	23.20	22.85	1.0	24.0
					160	0	23.48	22.99	22.94	1.0	24.0
				16QAM	1	1	23.49	22.82	22.85	1.0	24.0
				64QAM	1	1	22.01	21.50	21.45	2.5	22.5
				256QAM	1	1	19.78	19.04	19.24	4.5	20.5
			CP-OFDM	QPSK	1	1	21.74	21.98	22.38	1.5	23.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					344500	349000	353500		
					1722.50 MHz	1745.00 MHz	1767.50 MHz		
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.77	23.46	23.56	0.0	25.0
			1	67	23.73	23.52	23.48	0.0	25.0
			1	131	23.64	23.77	23.59	0.0	25.0
			64	0	22.92	22.58	22.70	0.5	24.5
			64	35	23.89	23.66	23.65	0.0	25.0
			64	69	22.88	22.90	22.67	0.5	24.5
		128	0	22.91	22.69	22.67	0.5	24.5	
		QPSK	1	1	23.47	23.26	23.77	0.0	25.0
			1	67	23.86	23.63	23.64	0.0	25.0
			1	131	23.79	23.46	23.71	0.0	25.0
			64	0	23.03	22.64	22.78	1.0	24.0
			64	35	23.97	23.66	23.73	0.0	25.0
			64	69	22.97	22.75	22.74	1.0	24.0
		128	0	23.00	22.73	22.74	1.0	24.0	
16QAM	1	1	22.86	22.39	22.79	1.0	24.0		
64QAM	1	1	21.53	21.32	21.35	2.5	22.5		
256QAM	1	1	19.09	19.20	19.37	4.5	20.5		
CP-OFDM	QPSK	1	1	21.95	22.10	22.31	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					344000	349000	354000		
					1720.00 MHz	1745.00 MHz	1770.00 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.5	23.2	23.0	0.0	25.0
			1	53	23.0	23.7	23.6	0.0	25.0
			1	104	23.5	23.3	23.5	0.0	25.0
			50	0	23.2	22.5	22.5	0.5	24.5
			50	28	22.9	23.6	23.5	0.0	25.0
			50	56	22.4	22.7	22.7	0.5	24.5
		100	0	22.0	22.6	22.6	0.5	24.5	
		QPSK	1	1	23.01	22.84	22.62	0.0	25.0
			1	53	22.73	23.47	23.38	0.0	25.0
			1	104	23.29	23.12	23.23	0.0	25.0
			50	0	21.6	22.4	22.3	1.0	24.0
			50	28	22.8	23.5	23.4	0.0	25.0
			50	56	22.3	22.6	22.6	1.0	24.0
		100	0	21.9	22.5	22.5	1.0	24.0	
16QAM	1	1	22.5	22.0	21.8	1.0	24.0		
64QAM	1	1	20.2	20.8	20.8	2.5	22.5		
256QAM	1	1	18.8	19.1	19.4	4.5	20.5		
CP-OFDM	QPSK	1	1	21.6	21.8	21.6	1.5	23.5	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343500	349000	354500		
					1717.50 MHz	1745.00 MHz	1772.50 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	22.5	23.3	23.3	0.0	25.0
			1	40	23.3	23.6	23.7	0.0	25.0
			1	77	23.3	23.4	23.4	0.0	25.0
			36	0	22.3	22.6	22.6	0.5	24.5
			36	22	23.1	23.7	23.7	0.0	25.0
			36	43	22.4	22.8	22.7	0.5	24.5
			75	0	22.1	22.7	22.6	0.5	24.5
		QPSK	1	1	22.56	22.90	22.80	0.0	25.0
			1	40	22.93	23.65	23.50	0.0	25.0
			1	77	22.98	23.15	23.12	0.0	25.0
			36	0	21.7	22.5	22.4	1.0	24.0
			36	22	23.0	23.6	23.5	0.0	25.0
			36	43	22.3	22.7	22.6	1.0	24.0
			75	0	22.0	22.6	22.5	1.0	24.0
16QAM	1	1	22.5	22.1	22.0	1.0	24.0		
64QAM	1	1	20.1	20.9	20.9	2.5	22.5		
256QAM	1	1	18.8	19.2	19.3	4.5	20.5		
CP-OFDM	QPSK	1	1	21.6	21.7	21.7	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343000	349000	355000		
					1715.00 MHz	1745.00 MHz	1775.00 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.0	23.5	23.8	0.0	25.0
			1	26	23.3	23.7	23.9	0.0	25.0
			1	50	23.5	23.8	23.9	0.0	25.0
			25	0	22.2	22.7	22.9	0.5	24.5
			25	14	23.2	23.8	23.8	0.0	25.0
			25	27	22.5	22.9	23.0	0.5	24.5
			50	0	22.3	22.8	22.9	0.5	24.5
		QPSK	1	1	22.62	23.27	23.40	0.0	25.0
			1	26	23.02	23.54	23.59	0.0	25.0
			1	50	23.22	23.52	23.58	0.0	25.0
			25	0	22.0	22.6	22.7	1.0	24.0
			25	14	23.1	23.6	23.7	0.0	25.0
			25	27	22.4	22.8	22.8	1.0	24.0
			50	0	22.2	22.7	22.8	1.0	24.0
16QAM	1	1	21.9	22.5	22.6	1.0	24.0		
64QAM	1	1	20.8	21.3	21.5	2.5	22.5		
256QAM	1	1	19.3	19.2	19.4	4.5	20.5		
CP-OFDM	QPSK	1	1	21.6	22.1	22.3	1.5	23.5	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					342500	349000	355500		
					1712.50 MHz	1745.00 MHz	1777.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.1	23.7	23.7	0.0	25.0
			1	13	23.1	23.7	23.7	0.0	25.0
			1	23	23.2	23.6	23.8	0.0	25.0
			12	0	22.1	22.7	22.8	0.5	24.5
			12	7	23.0	23.6	23.9	0.0	25.0
			12	13	22.3	22.8	22.9	0.5	24.5
		25	0	22.2	22.8	22.9	0.5	24.5	
		QPSK	1	1	22.64	23.37	23.72	0.0	25.0
			1	13	22.75	23.45	23.75	0.0	25.0
			1	23	22.88	23.49	23.79	0.0	25.0
			12	0	21.9	22.7	22.9	1.0	24.0
			12	7	22.8	23.6	23.8	0.0	25.0
			12	13	22.1	22.7	22.9	1.0	24.0
		25	0	22.0	22.7	22.9	1.0	24.0	
		16QAM	1	1	21.8	22.6	22.9	1.0	24.0
		64QAM	1	1	20.8	21.3	21.2	2.5	22.5
		256QAM	1	1	19.2	19.2	19.3	4.5	20.5
		CP-OFDM	QPSK	1	1	21.7	22.2	22.3	1.5

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BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)					
					Measured Pwr (dBm)			MPR	Tune-up Limit	
					134600	136100	137600			
					673 MHz	680.5 MHz	688 MHz			
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.70	22.80	23.07	0.0	25.0	
			1	53	23.17	23.39	23.56	0.0	25.0	
			1	104	23.36	23.53	23.55	0.0	25.0	
			50	0	23.31	22.26	22.53	0.5	24.5	
			50	28	23.16	23.44	23.63	0.0	25.0	
			50	56	22.34	22.60	22.72	0.5	24.5	
		100	0	22.15	22.43	22.63	0.5	24.5		
		QPSK	1	1	22.79	23.13	23.42	0.0	25.0	
			1	53	23.33	23.82	23.79	0.0	25.0	
			1	104	23.45	23.61	23.67	0.0	25.0	
			50	0	22.00	22.32	22.58	1.0	24.0	
			50	28	23.21	23.74	23.69	0.0	25.0	
			50	56	22.39	22.65	22.78	1.0	24.0	
			100	0	22.20	22.48	22.69	1.0	24.0	
			16QAM	1	1	21.83	22.17	22.56	1.0	24.0
				1	53	22.27	22.69	22.96	1.0	24.0
	1			104	22.47	22.69	22.78	1.0	24.0	
64QAM	1	1	20.28	20.61	20.91	2.5	22.5			
256QAM	1	1	18.21	18.42	18.80	4.5	20.5			
CP-OFDM	QPSK	1	1	21.13	21.54	21.81	1.5	23.5		
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	
					134100	136100	138100			
					670.5 MHz	680.5 MHz	690.5 MHz			
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.94	23.16	23.63	0.0	25.0	
			1	40	23.17	23.33	22.58	0.0	25.0	
			1	77	23.44	23.57	23.65	0.0	25.0	
			36	0	22.14	22.32	22.72	0.5	24.5	
			36	22	23.27	23.43	22.65	0.0	25.0	
			36	43	22.41	22.59	23.47	0.5	24.5	
			75	0	22.28	22.44	23.56	0.5	24.5	
		QPSK	1	1	23.00	23.21	23.67	0.0	25.0	
			1	40	23.16	23.37	22.59	0.0	25.0	
			1	77	23.47	23.58	23.66	0.0	25.0	
			36	0	22.15	22.34	22.72	1.0	24.0	
			36	22	23.28	23.44	22.67	0.0	25.0	
			36	43	22.40	22.60	22.48	1.0	24.0	
			75	0	22.27	22.46	22.57	1.0	24.0	
			16QAM	1	1	22.45	22.23	22.62	1.0	24.0
			64QAM	1	1	20.57	20.69	21.14	2.5	22.5
			256QAM	1	1	18.49	18.70	18.90	4.5	20.5
		CP-OFDM	QPSK	1	1	21.39	21.73	21.96	1.5	23.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					133600	136100	138600		
					668 MHz	680.5 MHz	693 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	22.79	23.26	23.58	0.0	25.0
			1	26	23.02	23.44	23.78	0.0	25.0
			1	50	23.12	23.57	23.68	0.0	25.0
			25	0	22.42	22.36	22.73	0.5	24.5
			25	14	22.99	23.44	23.76	0.0	25.0
			25	27	22.12	22.53	22.76	0.5	24.5
		50	0	22.02	22.46	22.78	0.5	24.5	
		QPSK	1	1	22.86	23.28	23.66	0.0	25.0
			1	26	23.02	23.46	23.82	0.0	25.0
			1	50	23.19	23.58	23.72	0.0	25.0
			25	0	21.94	22.39	22.75	1.0	24.0
			25	14	23.02	23.45	23.78	0.0	25.0
			25	27	22.15	22.54	22.77	1.0	24.0
		50	0	22.02	22.47	22.77	1.0	24.0	
		16QAM	1	1	21.97	22.28	22.71	1.0	24.0
64QAM	1	1	20.37	20.55	21.24	2.5	22.5		
256QAM	1	1	18.56	18.93	19.06	4.5	20.5		
CP-OFDM	QPSK	1	1	21.35	21.81	22.13	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					133100	136100	139100		
					665.5 MHz	680.5 MHz	695.5 MHz		
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	22.9	23.3	23.7	0.0	25.0
			1	13	22.9	23.3	23.6	0.0	25.0
			1	23	23.0	23.5	23.7	0.0	25.0
			12	0	22.5	22.4	22.8	0.5	24.5
			12	7	23.0	23.4	23.8	0.0	25.0
			12	13	22.0	22.5	22.8	0.5	24.5
		25	0	22.0	22.4	22.8	0.5	24.5	
		QPSK	1	1	22.96	23.39	23.81	0.0	25.0
			1	13	22.92	23.36	23.71	0.0	25.0
			1	23	23.05	23.49	23.75	0.0	25.0
			12	0	22.0	22.4	22.8	1.0	24.0
			12	7	23.0	23.4	23.8	0.0	25.0
			12	13	22.0	22.5	22.8	1.0	24.0
		25	0	22.0	22.5	22.8	1.0	24.0	
		16QAM	1	1	21.8	22.5	22.8	1.0	24.0
64QAM	1	1	20.4	20.9	21.4	2.5	22.5		
256QAM	1	1	18.4	18.9	19.4	4.5	20.5		
CP-OFDM	QPSK	1	1	21.5	21.8	22.3	1.5	23.5	

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BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)						MPR	Tune-up Limit
					Measured Pwr (dBm)							
					633332	650000	656000	662000				
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1	3499.98MHz	3750.00 MHz	3840.00 MHz	3930.00 MHz				
			1	137	26.29	26.51	26.72	26.93	0.0	28.0		
			1	271	26.77	26.20	27.23	26.60	0.0	28.0		
			135	0	26.54	26.72	26.83	27.31	0.0	28.0		
			135	69	25.95	25.82	26.24	26.21	0.5	27.5		
			135	138	26.80	26.25	27.19	26.67	0.0	28.0		
			135	207	26.33	25.85	26.39	26.53	0.5	27.5		
			270	0	26.30	25.70	26.66	26.24	0.5	27.5		
			270	1	26.25	26.51	26.68	27.03	0.0	28.0		
		1	137	26.91	26.19	27.25	26.61	0.0	28.0			
		1	271	26.60	26.74	26.94	27.35	0.0	28.0			
		135	0	25.44	25.39	25.77	25.72	1.0	27.0			
		135	69	26.85	26.25	27.24	26.64	0.0	28.0			
		135	138	25.85	25.39	25.92	26.04	1.0	27.0			
		270	0	25.81	25.16	26.18	25.69	1.0	27.0			
		1	137	25.95	25.06	26.29	25.71	1.0	27.0			
		1	271	25.62	25.59	25.94	26.32	1.0	27.0			
		16QAM	1	1	23.97	24.12	23.11	23.56	2.5	25.5		
256QAM	1	1	21.97	21.90	23.32	23.35	4.5	23.5				
CP-OFDM	QPSK	1	1	24.85	24.82	25.29	25.46	1.5	26.5			
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					Measured Pwr (dBm)							
					633000	633332	633666	649666	656000	662332		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	3495.00 MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840.00 MHz	3934.98MHz		
			1	123	26.59	26.37	26.68	26.72	26.92	26.66	0.0	28.0
			1	243	27.33	26.90	27.40	26.47	27.27	26.70	0.0	28.0
			1	243	27.22	26.80	27.03	26.79	27.17	27.38	0.0	28.0
			120	0	26.36	25.99	26.44	26.17	26.27	26.41	0.5	27.5
			120	63	27.32	26.91	27.44	26.51	27.34	26.88	0.0	28.0
			120	125	26.89	26.33	26.82	26.25	26.47	26.58	0.5	27.5
			243	0	26.66	26.37	26.82	25.94	26.80	26.37	0.5	27.5
			1	1	26.54	26.39	26.60	26.84	26.99	26.80	0.0	28.0
		1	123	27.28	26.93	27.40	26.49	27.35	26.79	0.0	28.0	
		1	243	27.26	26.78	27.04	26.89	27.14	27.39	0.0	28.0	
		120	0	25.84	25.54	25.94	25.68	25.81	25.92	1.0	27.0	
		120	63	27.29	26.90	27.46	26.53	27.31	26.84	0.0	28.0	
		120	125	26.38	25.89	26.38	25.75	25.97	26.09	1.0	27.0	
		243	0	26.19	25.47	26.28	25.45	26.30	25.86	1.0	27.0	
		16QAM	1	1	25.51	25.31	25.55	26.03	26.03	25.77	1.0	27.0
		64QAM	1	1	24.12	23.86	24.18	24.20	24.57	24.26	2.5	25.5
		256QAM	1	1	23.22	21.99	23.13	23.43	23.31	23.35	4.5	23.5
CP-OFDM	QPSK	1	1	25.03	24.85	25.10	25.25	25.52	25.32	1.5	26.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					Measured Pwr (dBm)							
					632668	633332	634000	649334	656000	662666		
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	3490.02 MHz	3499.98MHz	3510.00 MHz	3740.01 MHz	3840.00 MHz	3939.99 MHz		
			1	109	25.93	26.32	26.05	26.70	26.99	26.77	0.0	28.0
			1	215	26.47	26.87	26.87	26.50	27.26	26.92	0.0	28.0
			1	215	26.38	26.82	26.38	26.62	27.15	27.26	0.0	28.0
			108	0	25.72	26.00	25.98	26.15	26.27	26.36	0.5	27.5
			108	55	26.60	26.90	26.85	26.52	27.37	26.95	0.0	28.0
			108	109	26.34	26.46	26.27	26.27	26.47	26.60	0.5	27.5
			216	0	25.95	26.38	26.23	25.97	26.85	26.43	0.5	27.5
			1	1	25.94	26.47	26.15	26.76	27.07	26.72	0.0	28.0
		1	109	26.57	26.93	26.85	26.46	27.35	26.89	0.0	28.0	
		1	215	26.43	26.77	26.43	26.63	27.21	27.32	0.0	28.0	
		108	0	25.15	25.53	25.52	25.71	25.76	25.88	1.0	27.0	
		108	55	26.58	26.92	26.87	26.51	27.35	26.95	0.0	28.0	
		108	109	25.83	26.01	25.78	25.77	25.98	26.03	1.0	27.0	
		216	0	25.46	25.83	25.76	25.39	26.33	25.95	1.0	27.0	
		16QAM	1	1	25.01	25.51	25.24	25.87	26.12	25.89	1.0	27.0
		64QAM	1	1	23.13	24.10	23.64	24.35	24.67	24.34	2.5	25.5
		256QAM	1	1	23.36	21.98	23.49	23.01	23.42	23.13	4.5	23.5
CP-OFDM	QPSK	1	1	24.47	24.80	24.53	25.18	25.60	25.25	1.5	26.5	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					632334	633332	634332	649000	656000	663000		
					3485.01 MHz	3499.98MHz	3514.98 MHz	3735.00 MHz	3840.00 MHz	3945.00 MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	25.86	26.39	26.23	26.07	26.33	26.15	0.0	28.0
			1	95	26.49	26.90	26.84	25.85	26.72	26.51	0.0	28.0
			1	187	26.66	26.91	26.45	26.16	26.51	26.58	0.0	28.0
			90	0	25.67	25.99	26.25	25.64	25.73	25.62	0.5	27.5
			90	50	25.97	26.92	26.38	25.51	26.31	25.94	0.0	28.0
			90	99	26.29	26.39	26.36	25.49	25.94	25.91	0.5	27.5
		180	0	25.89	26.34	26.32	25.54	26.21	25.89	0.5	27.5	
		QPSK	1	1	25.80	26.23	26.29	26.08	26.39	26.18	0.0	28.0
			1	95	26.58	26.87	26.88	25.98	26.76	26.54	0.0	28.0
			1	187	26.73	26.74	26.43	26.13	26.53	26.67	0.0	28.0
			90	0	25.21	25.38	25.69	25.11	25.28	25.10	1.0	27.0
			90	50	26.77	26.78	25.87	25.50	25.76	25.50	0.0	28.0
			90	99	25.74	25.85	25.77	25.00	25.45	25.43	1.0	27.0
		16QAM	180	0	25.39	25.76	25.79	25.00	25.69	25.45	1.0	27.0
1	1		25.00	25.35	25.11	25.02	25.47	25.12	1.0	27.0		
64QAM	1	1	23.33	23.85	23.92	23.64	23.93	23.72	2.5	25.5		
	1	1	23.36	21.77	23.23	23.12	23.34	23.12	4.5	23.5		
256QAM	1	1	23.36	21.77	23.23	23.12	23.34	23.12	4.5	23.5		
	1	1	24.43	24.78	24.74	24.61	24.89	24.79	1.5	26.5		
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	25.89	26.39	26.53	26.51	26.63	26.70	0.0	28.0
			1	81	26.29	26.88	26.87	26.52	27.14	27.20	0.0	28.0
			1	160	26.67	26.76	26.46	26.46	26.76	27.27	0.0	28.0
			81	0	25.70	26.16	26.31	26.09	26.16	26.36	0.5	27.5
			81	41	26.39	26.88	26.87	26.63	27.13	27.29	0.0	28.0
			81	81	26.13	26.50	26.27	25.82	26.31	26.59	0.5	27.5
		QPSK	162	0	25.79	26.40	26.35	26.04	26.58	26.78	0.5	27.5
			1	1	25.91	26.35	26.54	26.61	26.73	26.83	0.0	28.0
			1	81	26.37	26.87	26.89	26.59	27.14	27.29	0.0	28.0
			1	160	26.71	26.81	26.46	26.56	26.81	27.36	0.0	28.0
			81	0	25.19	25.59	25.83	25.56	25.65	25.89	1.0	27.0
			81	41	26.40	26.85	26.89	26.59	27.10	27.29	0.0	28.0
		16QAM	81	81	25.64	25.94	25.79	25.31	25.84	26.07	1.0	27.0
			162	0	25.30	25.94	25.85	25.54	26.09	26.23	1.0	27.0
64QAM	1	1	25.26	25.23	25.50	25.54	25.69	25.90	1.0	27.0		
	1	1	23.36	24.10	24.07	24.08	24.20	24.25	2.5	25.5		
256QAM	1	1	23.30	21.96	23.14	23.23	23.42	23.21	4.5	23.5		
	1	1	24.49	24.87	24.98	25.09	25.16	25.31	1.5	26.5		
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	25.92	26.51	26.77	26.64	26.91	26.84	0.0	28.0
			1	67	26.17	26.85	26.76	26.71	27.38	27.26	0.0	28.0
			1	131	26.66	26.83	26.45	26.53	27.06	27.41	0.0	28.0
			64	0	25.61	26.17	26.39	26.18	26.52	26.67	0.5	27.5
			64	35	26.33	26.91	26.94	26.77	27.45	27.31	0.0	28.0
			64	69	26.01	26.45	26.27	26.01	26.73	26.66	0.5	27.5
		QPSK	128	0	25.76	26.41	26.32	26.25	26.85	26.79	0.5	27.5
			1	1	25.96	26.54	26.79	26.77	26.94	26.83	0.0	28.0
			1	67	26.29	27.00	26.87	26.73	27.42	27.28	0.0	28.0
			1	131	26.69	26.90	26.52	26.58	27.12	27.44	0.0	28.0
			64	0	25.16	25.68	25.86	25.70	26.02	26.13	1.0	27.0
			64	35	26.33	26.87	26.86	26.76	27.40	27.29	0.0	28.0
		16QAM	64	69	25.49	25.97	25.77	25.56	26.23	26.16	1.0	27.0
			128	0	25.28	25.85	25.87	25.72	26.36	26.28	1.0	27.0
64QAM	1	1	24.99	25.37	25.85	25.78	25.94	25.78	1.0	27.0		
	1	1	23.61	23.81	24.36	24.41	24.45	24.42	2.5	25.5		
256QAM	1	1	23.13	22.06	23.43	23.42	23.42	23.42	4.5	23.5		
	1	1	24.49	24.99	25.30	25.26	25.35	25.28	1.5	26.5		

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					631334	633332	635332	648000	656000	664000		
					3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840.00 MHz	3960.00 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.01	26.57	26.85	26.66	26.79	27.04	0.0	28.0
			1	53	26.26	26.97	26.78	26.76	27.48	27.18	0.0	28.0
			1	104	26.50	26.93	26.50	26.54	27.06	27.34	0.0	28.0
			50	0	25.58	26.21	26.37	26.17	26.53	26.81	0.5	27.5
			50	28	26.29	26.94	26.91	26.80	27.49	27.22	0.0	28.0
			50	56	25.83	26.53	26.26	26.23	26.80	26.63	0.5	27.5
			100	0	25.72	26.40	26.36	26.27	26.88	26.71	0.5	27.5
		QPSK	1	1	26.01	26.55	26.89	26.83	26.82	27.10	0.0	28.0
			1	53	26.20	26.94	26.86	26.77	27.43	27.23	0.0	28.0
			1	104	26.52	27.01	26.54	26.60	27.05	27.41	0.0	28.0
			50	0	25.11	25.75	25.86	25.72	26.11	26.32	1.0	27.0
			50	28	26.26	26.98	26.91	26.82	27.48	27.19	0.0	28.0
			50	56	25.40	26.05	25.75	25.75	26.33	26.12	1.0	27.0
			100	0	25.23	25.84	25.88	25.79	26.41	26.23	1.0	27.0
16QAM	1	1	25.01	25.45	25.79	25.78	25.84	26.13	1.0	27.0		
64QAM	1	1	23.29	23.93	24.28	24.30	24.37	24.76	2.5	25.5		
256QAM	1	1	23.12	22.05	23.45	23.50	23.12	23.42	4.5	23.5		
CP-OFDM	QPSK	1	1	24.51	25.03	25.29	25.34	25.33	25.55	1.5	26.5	
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	25.94	26.68	26.77	26.68	26.99	27.14	0.0	28.0
			1	39	26.04	26.84	26.79	26.72	27.45	27.09	0.0	28.0
			1	76	26.22	26.97	26.49	26.66	27.19	27.37	0.0	28.0
			36	0	25.50	26.31	26.34	26.23	26.70	26.69	0.5	27.5
			36	21	26.18	26.99	26.83	26.76	27.50	27.14	0.0	28.0
			36	42	25.74	26.54	26.19	26.26	26.83	26.71	0.5	27.5
			75	0	25.65	26.50	26.28	26.31	26.93	26.65	0.5	27.5
		QPSK	1	1	26.00	26.70	26.81	26.82	26.97	27.30	0.0	28.0
			1	39	26.21	26.91	26.76	26.77	27.47	27.16	0.0	28.0
			1	76	26.29	26.96	26.54	26.76	27.25	27.39	0.0	28.0
			36	0	25.07	25.82	25.84	25.77	26.17	26.24	1.0	27.0
			36	21	26.13	26.95	26.82	26.80	27.41	27.19	0.0	28.0
			36	42	25.27	25.97	25.65	25.82	26.32	26.18	1.0	27.0
			75	0	25.17	25.95	25.80	25.77	26.43	26.12	1.0	27.0
16QAM	1	1	24.91	25.84	25.60	25.78	26.10	26.29	1.0	27.0		
64QAM	1	1	23.58	24.32	24.23	24.28	24.46	24.62	2.5	25.5		
256QAM	1	1	23.14	22.24	23.42	23.12	23.43	23.23	4.5	23.5		
CP-OFDM	QPSK	1	1	24.53	25.08	25.24	25.26	25.48	25.79	1.5	26.5	
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	26.04	26.54	26.77	26.85	27.03	27.20	0.0	28.0
			1	32	26.06	26.71	26.74	26.82	27.39	27.06	0.0	28.0
			1	64	26.24	26.87	26.55	26.80	27.29	27.43	0.0	28.0
			25	0	25.61	26.12	26.36	26.80	26.76	26.62	0.5	27.5
			25	13	26.14	26.83	26.77	26.83	27.44	27.12	0.0	28.0
			25	26	25.72	26.33	26.19	26.82	26.87	26.78	0.5	27.5
			50	0	25.60	26.28	26.30	26.82	26.99	26.64	0.5	27.5
		QPSK	1	1	26.04	26.50	26.78	26.82	27.07	27.25	0.0	28.0
			1	32	26.12	26.69	26.72	26.82	27.44	27.10	0.0	28.0
			1	64	26.32	26.85	26.64	26.79	27.33	27.49	0.0	28.0
			25	0	25.07	25.62	25.81	25.73	26.27	26.18	1.0	27.0
			25	13	26.13	26.80	26.81	26.71	27.46	27.14	0.0	28.0
			25	26	25.23	25.80	25.68	25.76	26.33	26.22	1.0	27.0
			50	0	25.11	25.76	25.76	25.76	26.45	26.11	1.0	27.0
16QAM	1	1	25.07	25.44	25.74	25.98	26.08	26.26	1.0	27.0		
64QAM	1	1	23.54	23.92	24.28	24.36	24.49	24.71	2.5	25.5		
256QAM	1	1	23.42	23.41	23.43	23.14	23.13	23.43	4.5	23.5		
CP-OFDM	QPSK	1	1	24.57	25.07	25.21	25.29	25.56	25.75	1.5	26.5	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					630500	633332	636168	647168	656000	664832		
					3457.50 MHz	3499.98MHz	3542.52 MHz	3707.52 MHz	3840.00 MHz	3972.48 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	25.99	26.52	26.86	26.85	27.08	27.18	0.0	28.0
			1	26	26.02	26.86	26.71	26.68	27.37	27.11	0.0	28.0
			1	49	26.15	26.87	26.52	26.75	27.32	27.41	0.0	28.0
			25	0	25.56	26.17	26.30	26.29	26.79	26.61	0.5	27.5
			25	13	26.13	26.83	26.76	26.74	27.44	27.09	0.0	28.0
			25	26	25.66	26.33	26.10	26.25	26.88	26.78	0.5	27.5
		50	0	25.57	26.28	26.24	26.25	26.94	26.59	0.5	27.5	
		QPSK	1	1	26.04	26.58	26.81	26.84	27.15	27.13	0.0	28.0
			1	26	26.10	26.77	26.71	26.71	27.44	27.10	0.0	28.0
			1	49	26.20	26.89	26.50	26.78	27.33	27.39	0.0	28.0
			25	0	25.04	25.68	25.79	25.73	26.27	26.12	1.0	27.0
			25	13	26.13	26.81	26.74	26.78	27.44	27.10	0.0	28.0
			25	26	25.14	25.82	25.63	25.75	26.37	26.30	1.0	27.0
		50	0	25.10	25.78	25.74	25.72	26.46	26.11	1.0	27.0	
16QAM	1	1	25.20	25.51	25.74	25.88	26.13	26.13	1.0	27.0		
64QAM	1	1	23.53	23.81	24.37	24.27	24.66	24.75	2.5	25.5		
256QAM	1	1	23.49	23.42	23.12	23.43	23.24	23.27	4.5	23.5		
CP-OFDM	QPSK	1	1	24.54	25.08	25.27	25.35	25.68	25.68	1.5	26.5	
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	25.92	26.67	26.79	26.74	27.29	27.13	0.0	28.0
			1	19	26.13	26.75	26.59	26.80	27.46	27.24	0.0	28.0
			1	36	26.18	26.79	26.43	26.76	27.37	27.42	0.0	28.0
			18	0	25.53	26.18	26.20	26.27	26.84	26.63	0.5	27.5
			18	10	25.55	26.24	26.15	26.25	26.98	26.73	0.0	28.0
			18	20	25.59	26.28	26.09	26.27	26.93	26.84	0.5	27.5
		36	0	25.55	26.26	26.15	26.28	26.94	26.69	0.5	27.5	
		QPSK	1	1	26.04	26.66	26.77	26.80	27.30	27.14	0.0	28.0
			1	19	26.06	26.73	26.71	26.77	27.47	27.18	0.0	28.0
			1	36	26.15	26.86	26.53	26.77	27.39	27.44	0.0	28.0
			18	0	25.04	25.69	25.70	25.80	26.32	26.13	1.0	27.0
			18	10	25.55	25.73	25.65	25.75	26.44	26.19	0.0	28.0
			18	20	25.08	25.77	25.57	25.77	26.40	26.30	1.0	27.0
		36	0	25.08	25.75	25.64	25.76	26.45	26.17	1.0	27.0	
16QAM	1	1	24.96	25.75	25.58	25.88	26.27	26.07	1.0	27.0		
64QAM	1	1	23.57	24.13	24.18	24.39	24.72	24.72	2.5	25.5		
256QAM	1	1	23.13	23.42	23.14	23.43	23.24	23.24	4.5	23.5		
CP-OFDM	QPSK	1	1	24.53	25.14	25.24	25.35	25.77	25.65	1.5	26.5	
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	25.98	26.75	26.55	27.24	26.76	27.13	0.0	28.0
			1	12	26.07	26.76	26.40	27.28	26.83	27.35	0.0	28.0
			1	22	25.99	26.79	26.45	27.29	26.70	27.48	0.0	28.0
			12	0	25.49	26.21	25.97	26.77	26.26	26.73	0.5	27.5
			12	6	25.99	26.75	26.51	27.29	26.81	27.30	0.0	28.0
			12	12	25.56	26.29	25.96	26.81	26.29	26.86	0.5	27.5
		24	0	25.49	26.23	26.02	26.72	26.28	26.85	0.5	27.5	
		QPSK	1	1	26.01	26.67	26.54	27.25	26.76	27.16	0.0	28.0
			1	12	26.02	26.82	26.53	27.40	26.82	27.37	0.0	28.0
			1	22	26.04	26.76	26.48	27.31	26.77	27.50	0.0	28.0
			12	0	25.01	25.72	25.50	26.25	25.81	26.15	1.0	27.0
			12	6	26.00	26.79	26.49	27.35	26.77	27.29	0.0	28.0
			12	12	25.04	25.81	25.50	26.34	25.76	26.35	1.0	27.0
		24	0	24.97	25.74	25.46	26.28	25.82	26.31	1.0	27.0	
16QAM	1	1	25.01	25.68	25.60	26.32	25.68	26.16	1.0	27.0		
64QAM	1	1	23.78	23.95	24.23	24.75	24.41	24.58	2.5	25.5		
256QAM	1	1	23.48	23.30	23.12	23.43	23.13	23.32	4.5	23.5		
CP-OFDM	QPSK	1	1	24.57	25.20	25.10	25.70	25.37	25.64	1.5	26.5	

NR Band n77(PC2, SRS1, ANT SUB2)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)						MPR	Tune-up Limit
			SRS1							
			Measured Pwr (dBm)							
100 MHz	1	1	633332	650000	656000	662000	0.0	28.0		
			3499.98 MHz	3750.00 MHz	3840.00 MHz	3930.00 MHz				
90 MHz	1	1	633000	633332	633666	649666	656000	662332	0.0	
			3495.00 MHz	3499.98 MHz	3504.99 MHz	3744.99 MHz	3840.00 MHz	3934.98 MHz		
80 MHz	1	1	632668	633332	634000	649334	656000	662666	0.0	
			3490.02 MHz	3499.98 MHz	3510.00 MHz	3740.01 MHz	3840.00 MHz	3939.99 MHz		
70 MHz	1	1	632334	633332	634332	649000	656000	663000	0.0	
			3485.01 MHz	3499.98MHz	3514.98 MHz	3735.00 MHz	3840.00 MHz	3945.00 MHz		
60 MHz	1	1	632000	633332	634666	648668	656000	663332	0.0	
			3480.00 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840.00 MHz	3949.98 MHz		
50 MHz	1	1	631668	633332	635000	648334	656000	663666	0.0	
			3475.02 MHz	3499.98MHz	3525.00 MHz	3725.01 MHz	3840.00 MHz	3954.99 MHz		
40 MHz	1	1	631334	633332	635332	648000	656000	664000	0.0	
			3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840.00 MHz	3960.00 MHz		
30 MHz	1	1	631000	633332	635668	647668	656000	664332	0.0	
			3465.00 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840.00 MHz	3964.98 MHz		
25 MHz	1	1	630834	633332	635832	647500	656000	664500	0.0	
			3462.51 MHz	3499.98MHz	3537.48 MHz	3712.5 MHz	3840.00 MHz	3967.50 MHz		
20 MHz	1	1	630668	633332	636000	647334	656000	664666	0.0	
			3460.02 MHz	3499.98MHz	3540.00 MHz	3710.01 MHz	3840.00 MHz	3969.99 MHz		
15 MHz	1	1	630500	633332	636168	647168	656000	664832	0.0	
			3457.50 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840.00 MHz	3972.48 MHz		
10 MHz	1	1	630334	633332	636332	647000	656000	665000	0.0	
			3455.01 MHz	3499.98 MHz	3544.98 MHz	3705.00 MHz	3840.00 MHz	3975.00 MHz		

NR Band n77(PC2, SRS2, , ANT SUB4)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)						MPR	Tune-up Limit
			SRS2							
			Measured Pwr (dBm)							
100 MHz	1	1	633332	650000	656000	662000	0.0	25.0		
			3499.98 MHz	3750.00 MHz	3840.00 MHz	3930.00 MHz				
90 MHz	1	1	24.32	22.65	24.63	24.70	0.0	25.0		
			633000	633332	633666	649666			656000	662332
80 MHz	1	1	3495.00 MHz	3499.98 MHz	3504.99 MHz	3744.99 MHz	3840.00 MHz	3934.98 MHz	0.0	25.0
			24.07	24.20	24.24	22.60	24.49	24.66		
70 MHz	1	1	632668	633332	634000	649334	656000	662666	0.0	25.0
			3490.02 MHz	3499.98 MHz	3510.00 MHz	3740.01 MHz	3840.00 MHz	3939.99 MHz		
60 MHz	1	1	23.95	24.16	24.33	22.52	24.46	24.71	0.0	25.0
			632334	633332	634332	649000	656000	663000		
50 MHz	1	1	3485.01 MHz	3499.98MHz	3514.98 MHz	3735.00 MHz	3840.00 MHz	3945.00 MHz	0.0	25.0
			23.73	23.97	24.17	22.54	23.68	24.77		
40 MHz	1	1	632000	633332	634666	648668	656000	663332	0.0	25.0
			3480.00 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840.00 MHz	3949.98 MHz		
30 MHz	1	1	23.85	24.27	24.52	23.07	24.91	23.40	0.0	25.0
			631668	633332	635000	648334	656000	663666		
25 MHz	1	1	3475.02 MHz	3499.98MHz	3525.00 MHz	3725.01 MHz	3840.00 MHz	3954.99 MHz	0.0	25.0
			23.87	24.18	24.44	23.31	23.81	24.04		
20 MHz	1	1	631334	633332	635332	648000	656000	664000	0.0	25.0
			3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840.00 MHz	3960.00 MHz		
15 MHz	1	1	23.89	24.19	24.51	23.49	23.79	23.73	0.0	25.0
			631000	633332	635668	647668	656000	664332		
10 MHz	1	1	3465.00 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840.00 MHz	3964.98 MHz	0.0	25.0
			23.88	24.05	24.50	23.37	23.73	23.91		
10 MHz	1	1	630834	633332	635832	647500	656000	664500	0.0	25.0
			3462.51 MHz	3499.98MHz	3537.48 MHz	3712.5 MHz	3840.00 MHz	3967.50 MHz		
10 MHz	1	1	23.78	23.84	24.42	23.04	24.83	24.80	0.0	25.0
			630668	633332	636000	647334	656000	664666		
10 MHz	1	1	3460.02 MHz	3499.98MHz	3540.00 MHz	3710.01 MHz	3840.00 MHz	3969.99 MHz	0.0	25.0
			23.93	24.15	24.65	23.45	23.85	23.82		
10 MHz	1	1	630500	633332	636168	647168	656000	664832	0.0	25.0
			3457.50 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840.00 MHz	3972.48 MHz		
10 MHz	1	1	24.16	24.32	24.86	23.33	24.02	23.86	0.0	25.0
			630334	633332	636332	647000	656000	665000		
10 MHz	1	1	3455.01 MHz	3499.98 MHz	3544.98 MHz	3705.00 MHz	3840.00 MHz	3975.00 MHz	0.0	25.0
			23.70	23.91	24.45	22.93	24.70	24.63		

NR Band n77(PC2, SRS3, , ANT SUB3)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)						MPR	Tune-up Limit
			SRS3							
			Measured Pwr (dBm)							
100 MHz	1	1	633332	650000	656000	662000	0.0	22.5		
			3499.98 MHz	3750.00 MHz	3840.00 MHz	3930.00 MHz				
90 MHz	1	1	22.23	20.17	20.99	21.73	0.0	22.5		
			633000	633332	633666	649666			656000	662332
80 MHz	1	1	3495.00 MHz	3499.98 MHz	3504.99 MHz	3744.99 MHz	3840.00 MHz	3934.98 MHz	0.0	22.5
			22.34	22.35	22.48	19..93	20.85	21.67		
70 MHz	1	1	632668	633332	634000	649334	656000	662666	0.0	22.5
			3490.02 MHz	3499.98 MHz	3510.00 MHz	3740.01 MHz	3840.00 MHz	3939.99 MHz		
60 MHz	1	1	22.20	22.19	22.29	20.01	20.85	21.60	0.0	22.5
			632334	633332	634332	649000	656000	663000		
50 MHz	1	1	3485.01 MHz	3499.98MHz	3514.98 MHz	3735.00 MHz	3840.00 MHz	3945.00 MHz	0.0	22.5
			22.31	22.31	22.31	20.14	20.89	21.64		
40 MHz	1	1	632000	633332	634666	648668	656000	663332	0.0	22.5
			3480.00 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840.00 MHz	3949.98 MHz		
30 MHz	1	1	22.21	22.24	22.27	20.92	21.55	22.09	0.0	22.5
			631668	633332	635000	648334	656000	663666		
25 MHz	1	1	3475.02 MHz	3499.98MHz	3525.00 MHz	3725.01 MHz	3840.00 MHz	3954.99 MHz	0.0	22.5
			21.84	22.26	22.21	21.17	21.72	22.14		
20 MHz	1	1	631334	633332	635332	648000	656000	664000	0.0	22.5
			3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840.00 MHz	3960.00 MHz		
15 MHz	1	1	21.36	21.86	22.00	20.96	21.86	21.64	0.0	22.5
			631000	633332	635668	647668	656000	664332		
10 MHz	1	1	3465.00 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840.00 MHz	3964.98 MHz	0.0	22.5
			21.21	21.71	21.82	21.12	21.84	21.76		
10 MHz	1	1	630834	633332	635832	647500	656000	664500	0.0	22.5
			3462.51 MHz	3499.98MHz	3537.48 MHz	3712.5 MHz	3840.00 MHz	3967.50 MHz		
10 MHz	1	1	21.15	21.69	21.73	21.01	21.58	21.76	0.0	22.5
			630668	633332	636000	647334	656000	664666		
10 MHz	1	1	3460.02 MHz	3499.98MHz	3540.00 MHz	3710.01 MHz	3840.00 MHz	3969.99 MHz	0.0	22.5
			21.32	21.82	21.97	21.19	21.86	21.71		
10 MHz	1	1	630500	633332	636168	647168	656000	664832	0.0	22.5
			3457.50 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840.00 MHz	3972.48 MHz		
10 MHz	1	1	21.37	21.91	22.11	21.19	21.75	21.80	0.0	22.5
			630334	633332	636332	647000	656000	665000		
10 MHz	1	1	3455.01 MHz	3499.98 MHz	3544.98 MHz	3705.00 MHz	3840.00 MHz	3975.00 MHz	0.0	22.5
			21.05	21.54	21.64	20.65	21.43	21.27		

8.2. PEAK TO AVERAGE RATIO

Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to either CMW500 Test Set or E7515B Test set and configured to operate at maximum power. The PAR were measured on the Spectrum Analyzer.

Test Spec

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

NOTE

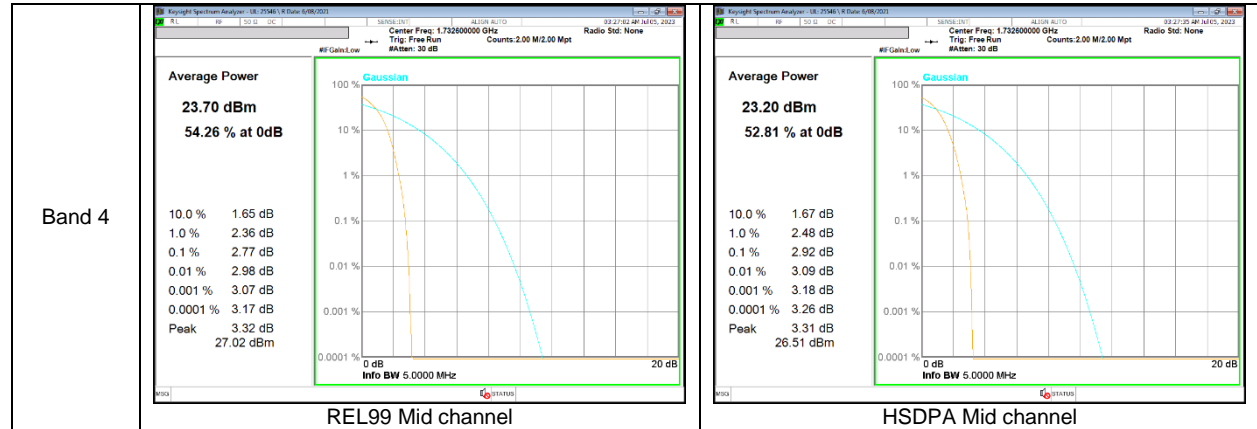
5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

RESULTS

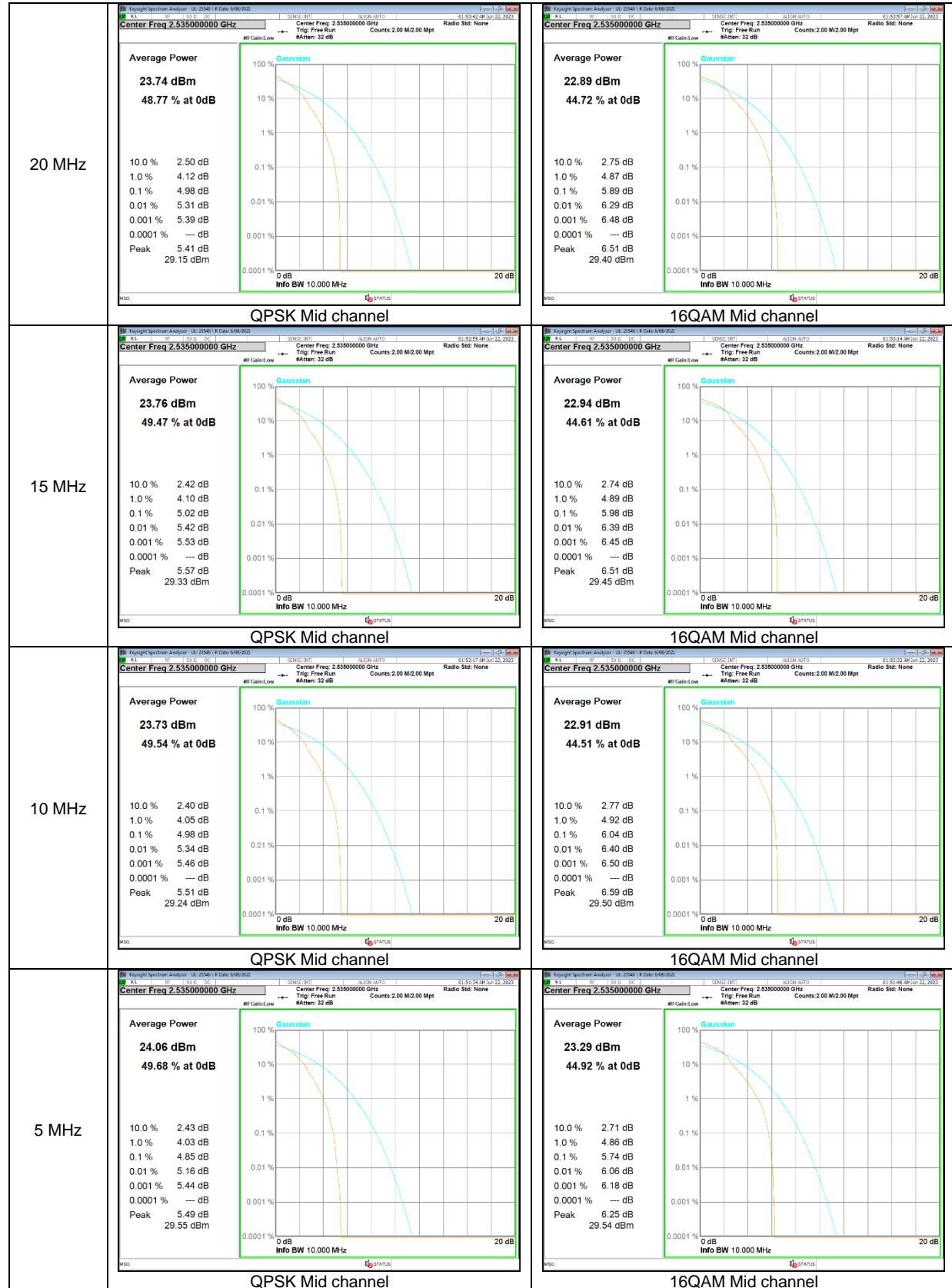
See the following pages.

8.2.1. CONDUCTED PEAK TO AVERAGE RESULT

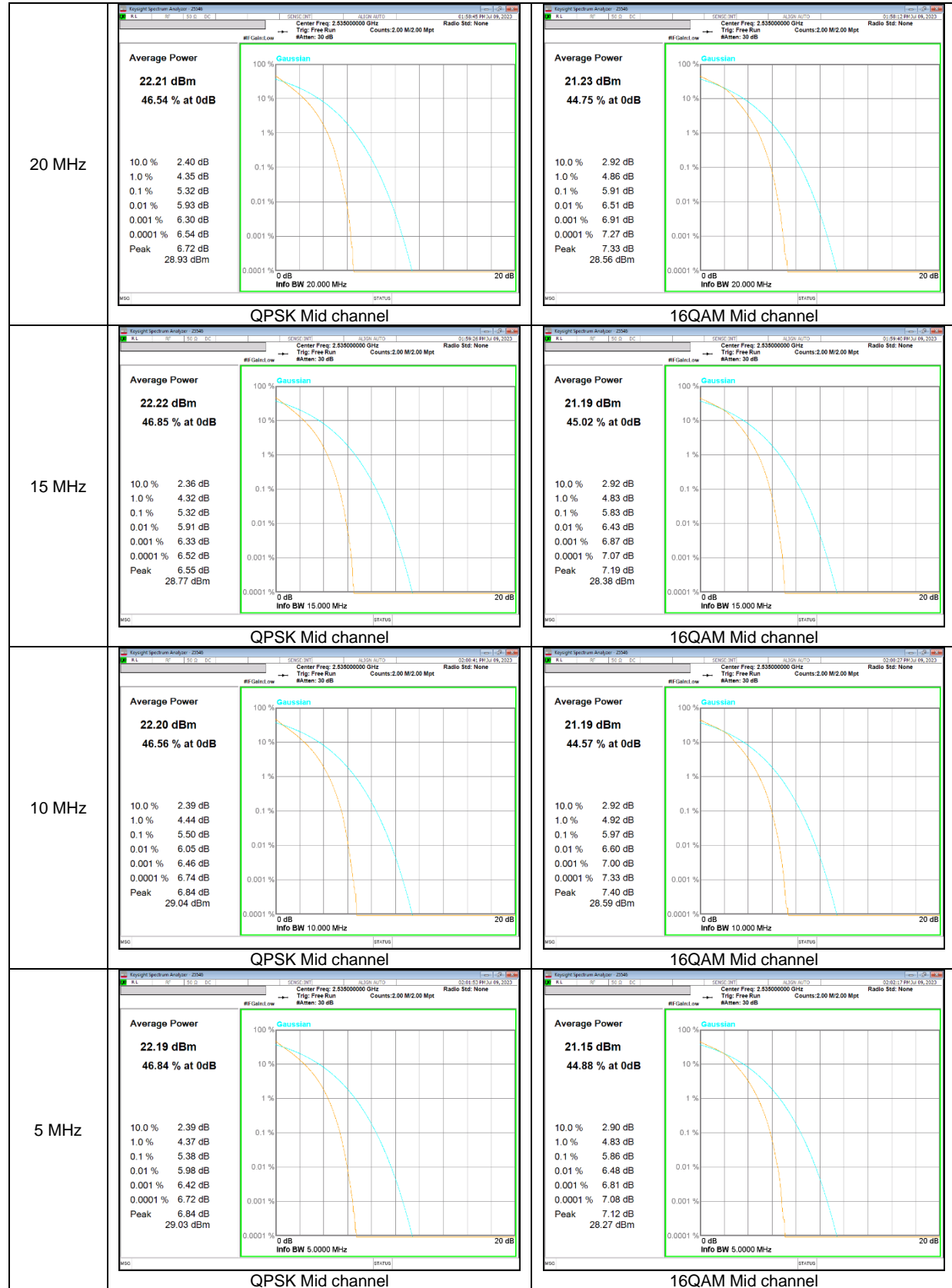
WCDMA



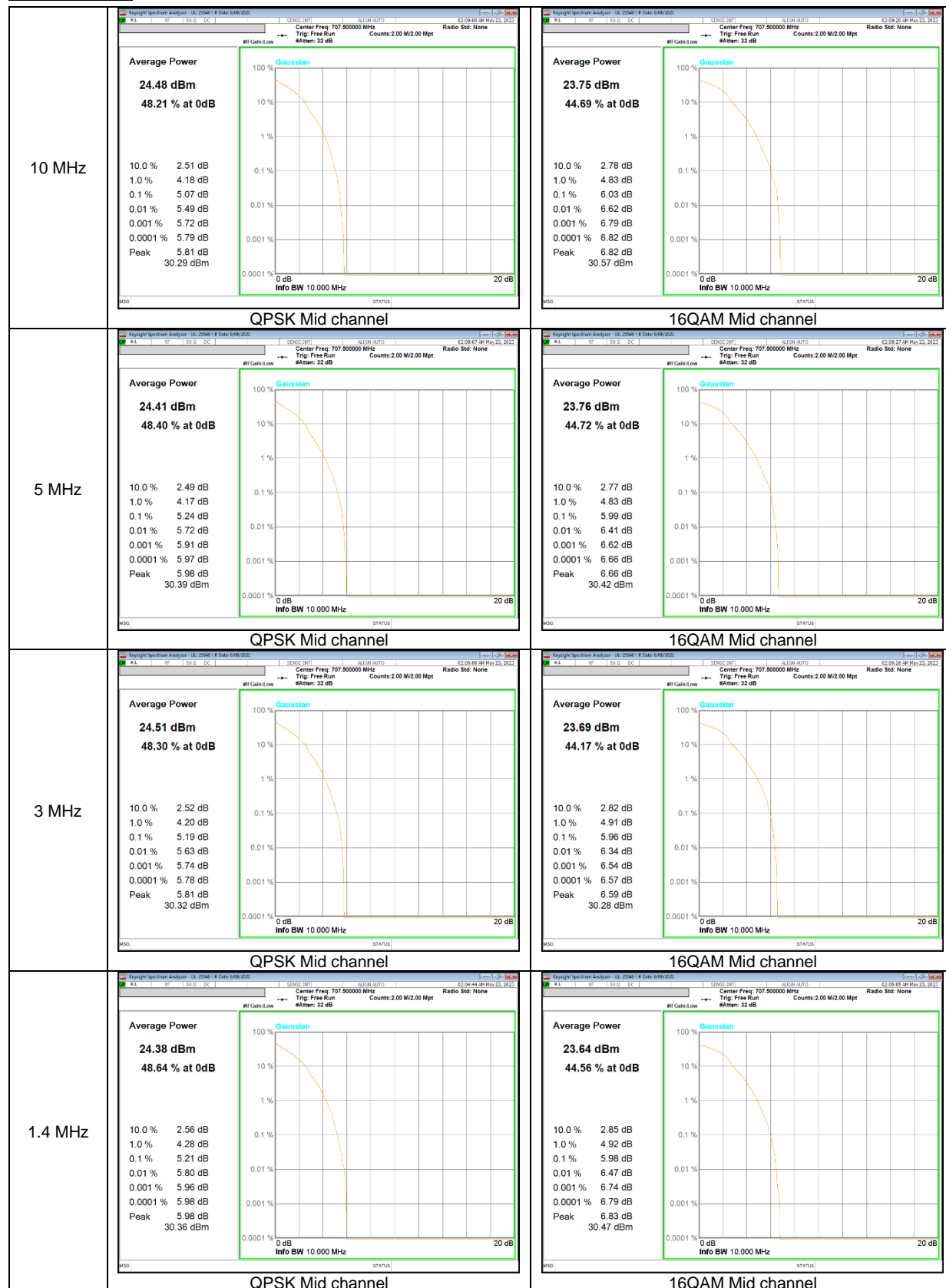
LTE Band 7



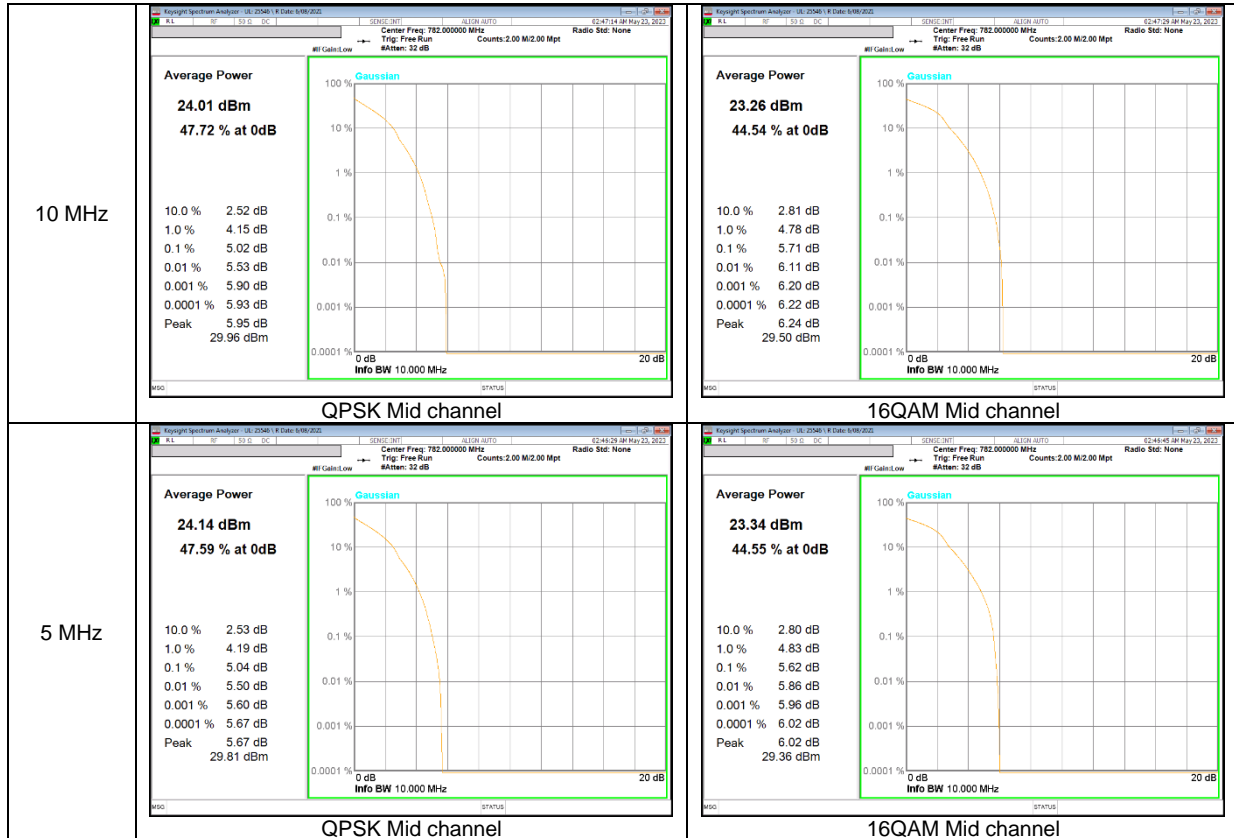
LTE Band 7 (ANT SUB2)



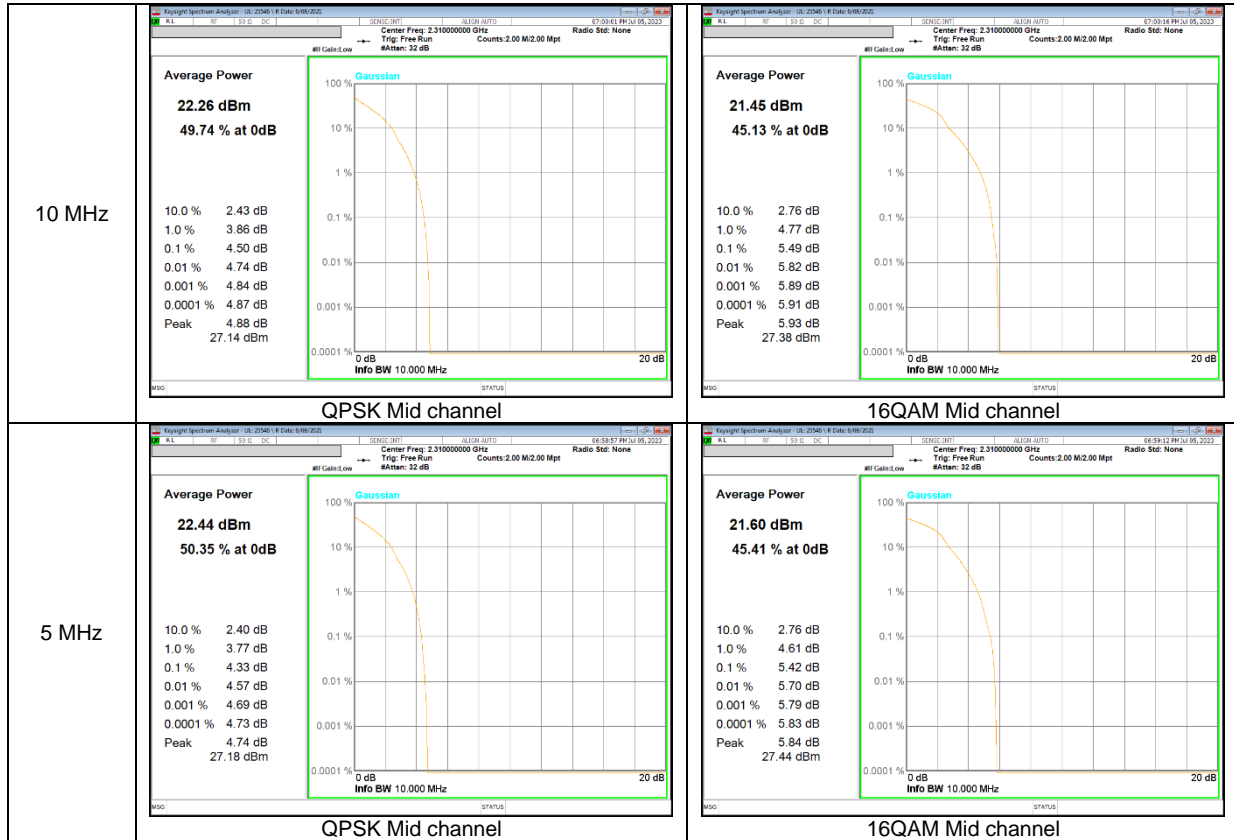
LTE Band 12



LTE Band 13



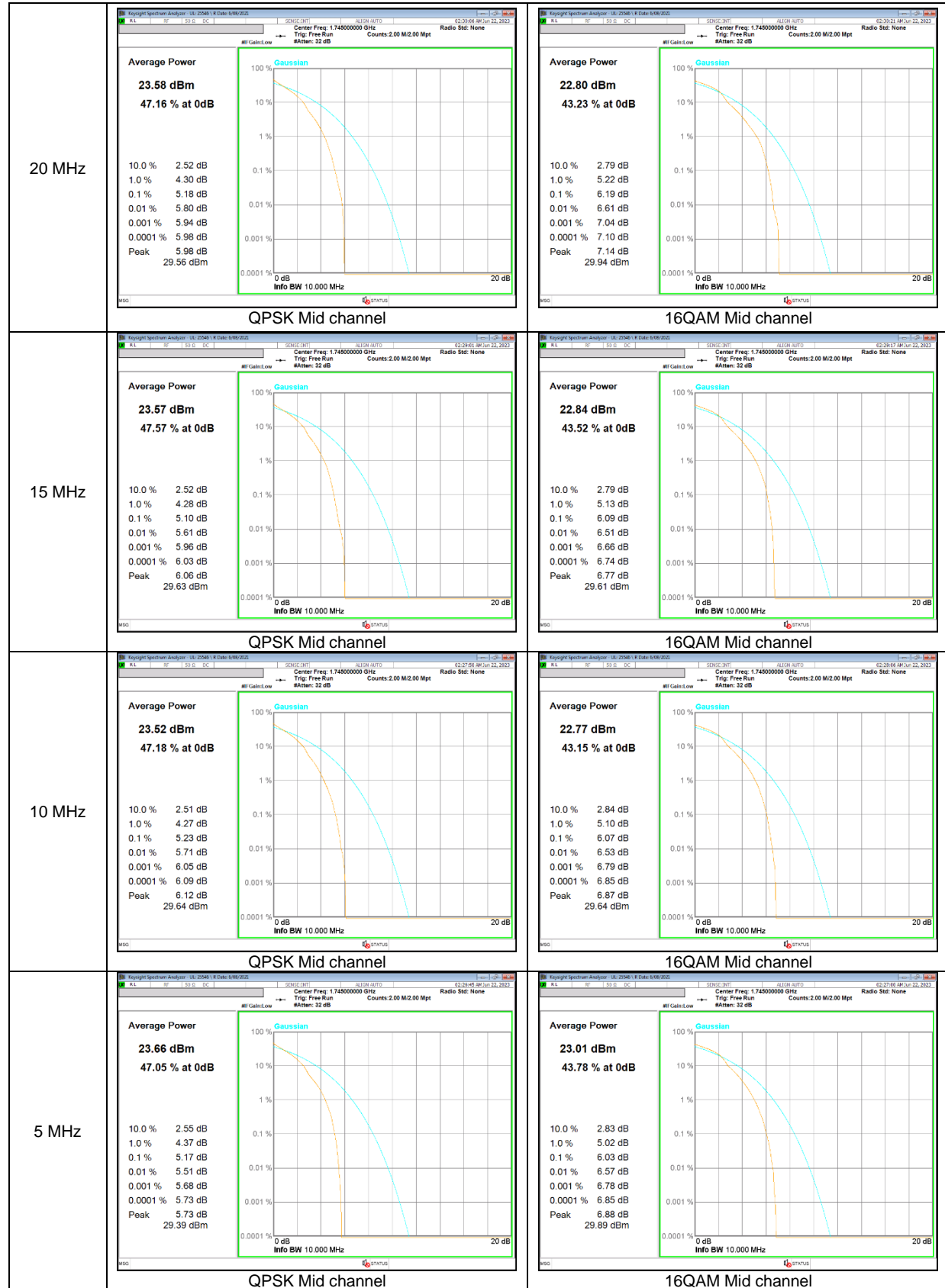
LTE Band 30

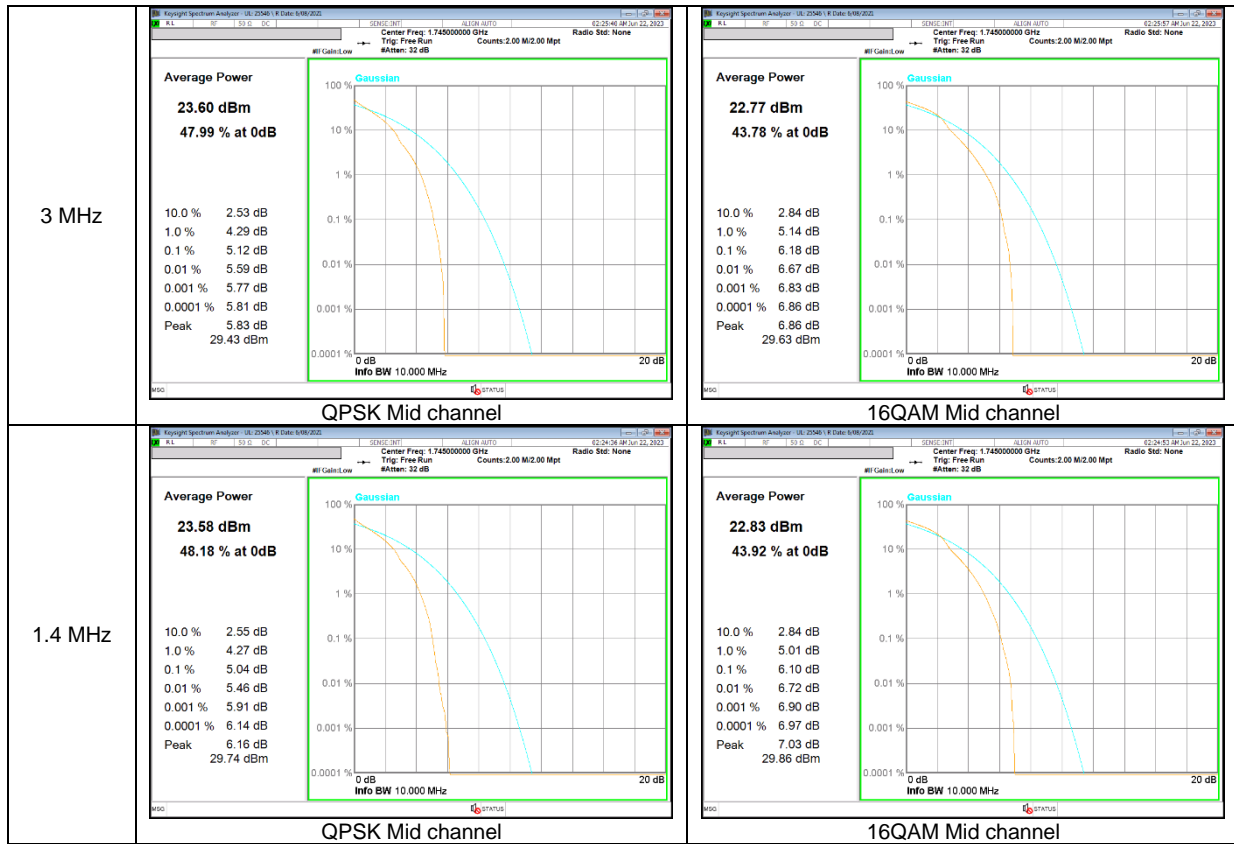


LTE Band 41(PC2)

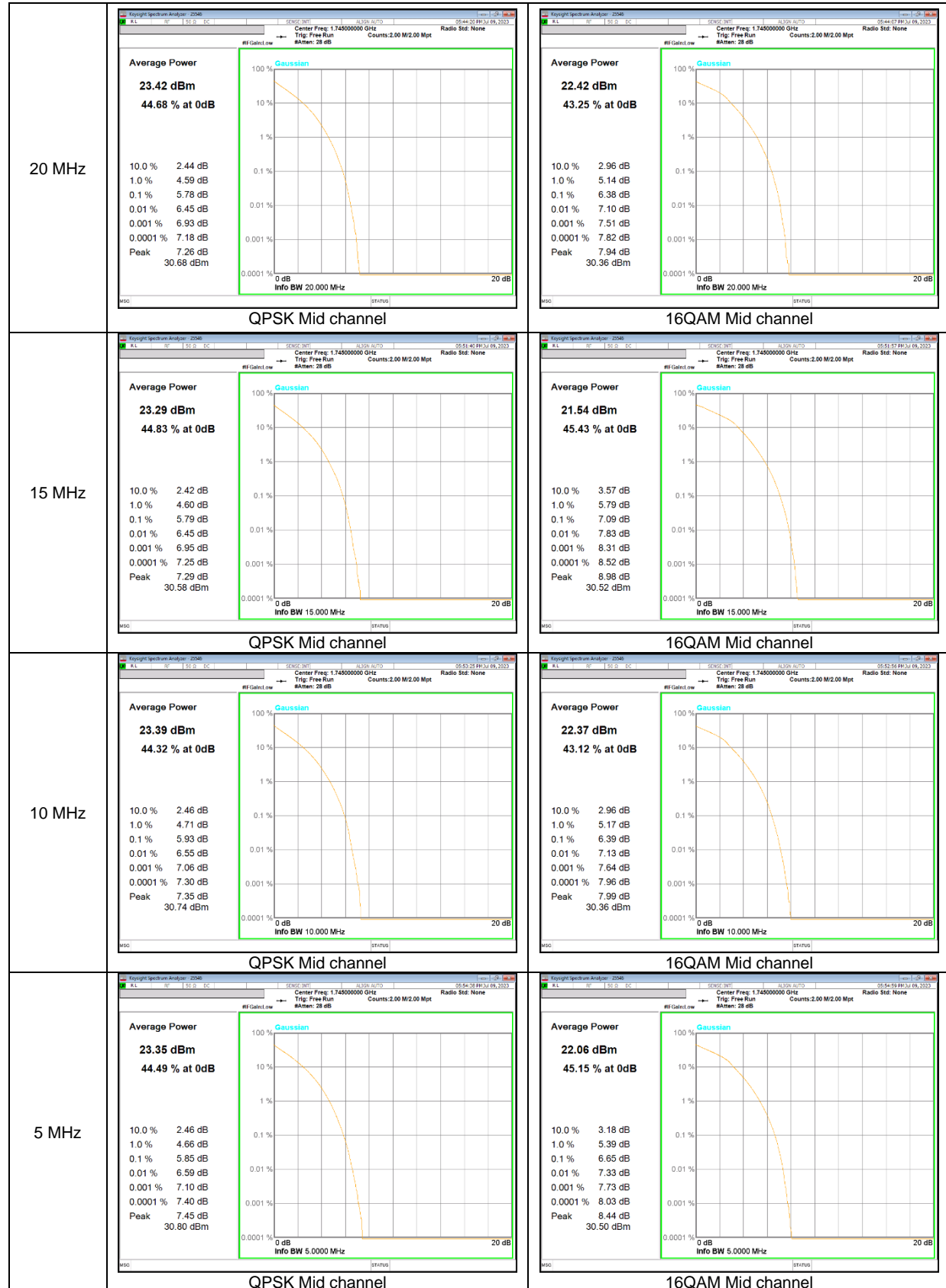


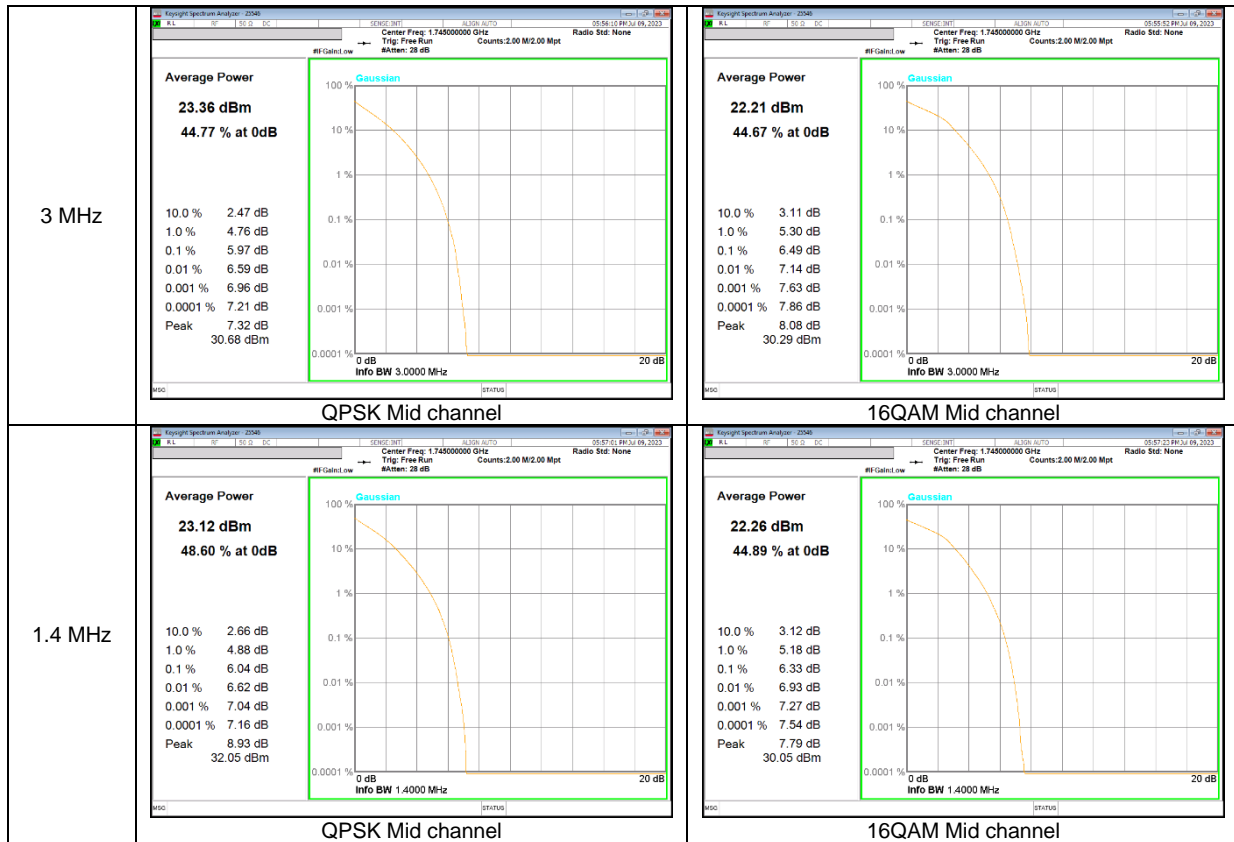
LTE Band 66





LTE Band 66 (ANT SUB2)

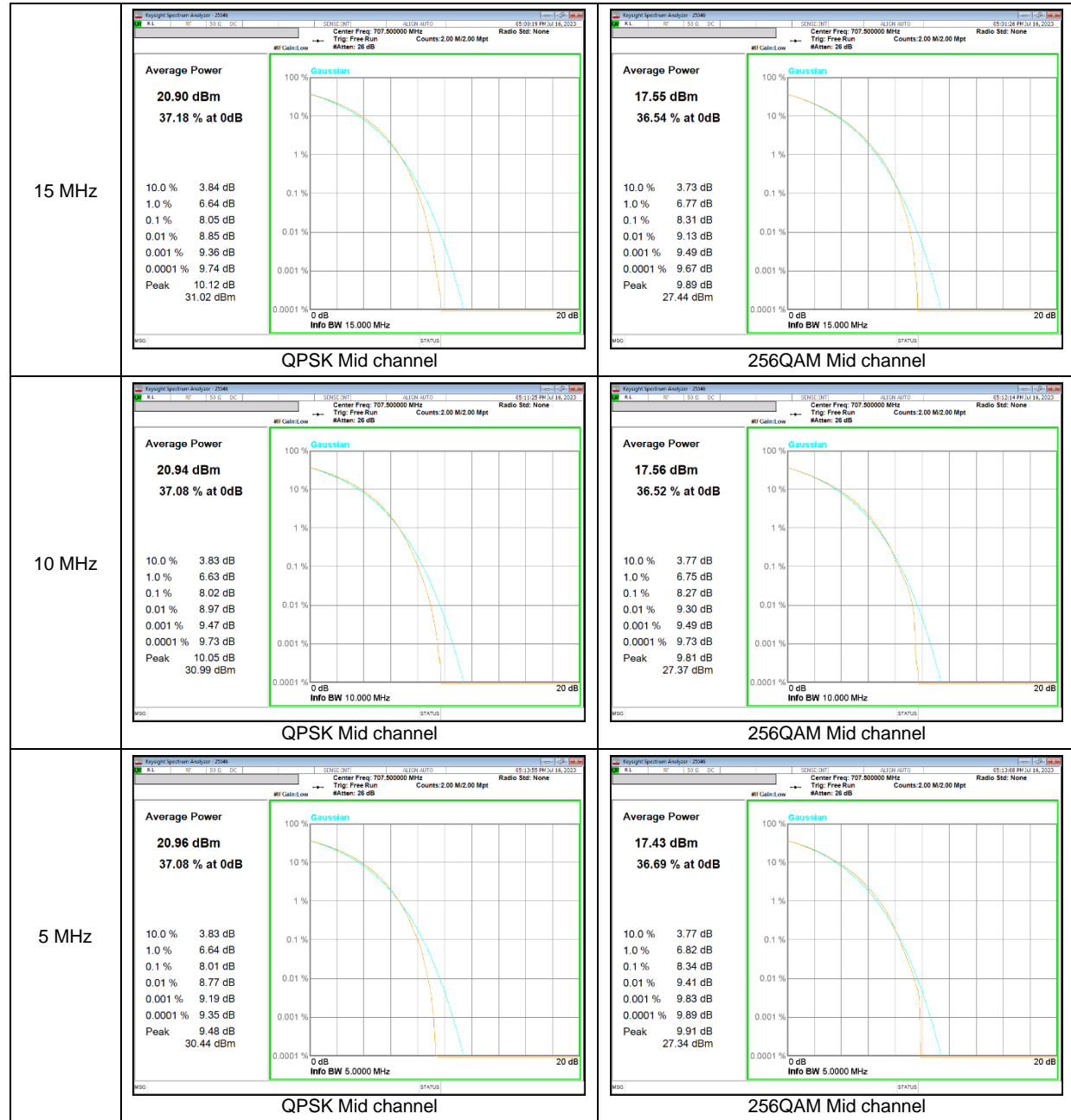




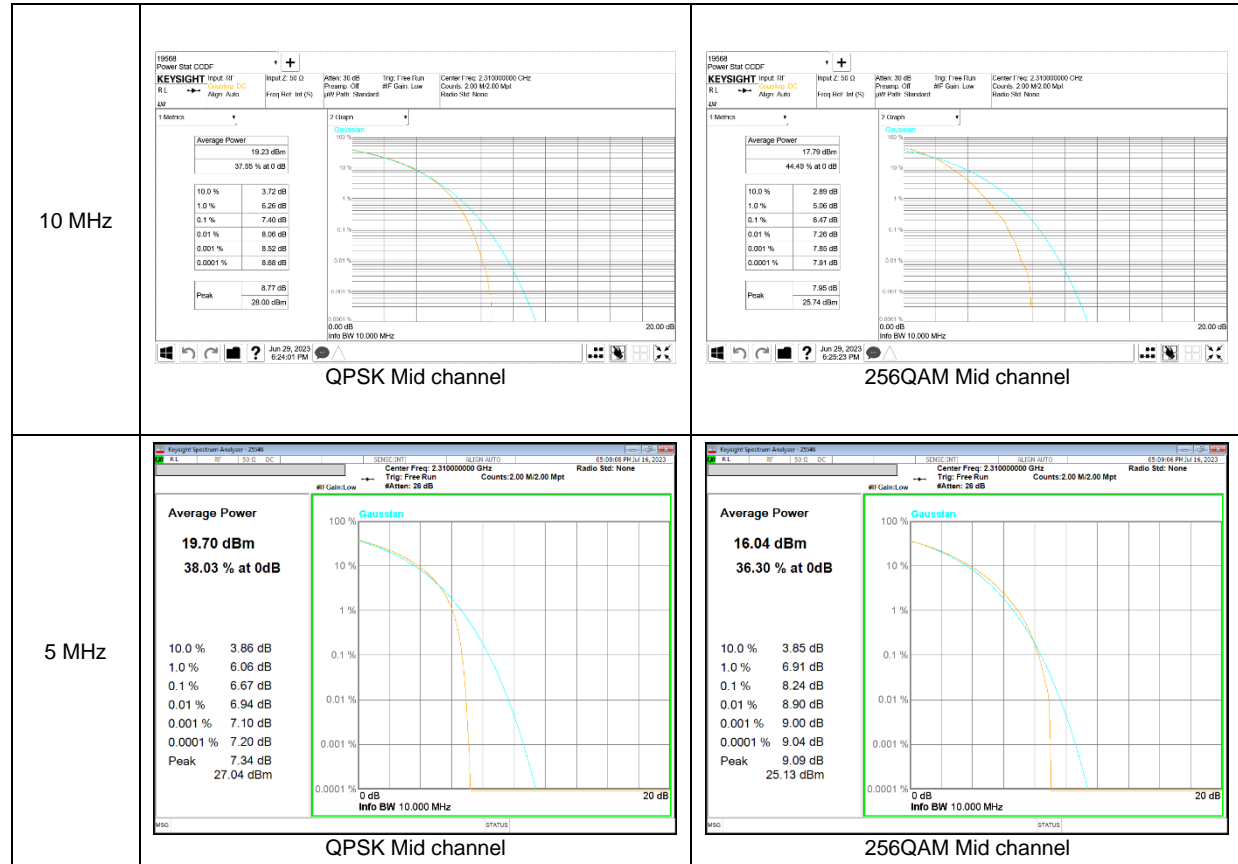
LTE Band 71



NR Band n12 CP-OFDM



NR Band n30 CP-OFDM



NR Band n41(PC2, CP-OFDM)

