

CERTIFICATION TEST REPORT

Report Number. : 4791196642-E4V3

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

Model : SC-55E, SCG28

FCC ID : A3LSMF956JPN

EUT Description : GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax,
NFC, WPT and UWB.

Test Standard(s) : FCC 47 CFR PART 27 SUBPART F,H,L,M

Date Of Issue:
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Revision History

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V1	2024-05-31	Initial issue	Yeonhee Lim
V2	2024-06-10	Updated to address TCB's question	Yeonhee Lim
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TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	6
4.1. MEASURING INSTRUMENT CALIBRATION.....	6
4.2. SAMPLE CALCULATION.....	6
4.3. MEASUREMENT UNCERTAINTY	6
4.4. DECISION RULE	6
5. EQUIPMENT UNDER TEST	7
5.1. DESCRIPTION OF EUT.....	7
5.2. MAXIMUM OUTPUT POWER.....	7
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	14
5.4. WORST-CASE ORIENTATION.....	15
5.5. DESCRIPTION OF TEST SETUP.....	20
6. TEST AND MEASUREMENT EQUIPMENT	22
7. SUMMARY TABLE	23
8. CONDUCTED RESULTS	24
8.1. CONDUCTED OUTPUT POWER	24
8.1.1. CONDUCTED AVERAGE OUTPUT POWER	25
8.2. PEAK TO AVERAGE RATIO.....	51
8.2.1. CONDUCTED PEAK TO AVERAGE RESULT	52
8.3. OCCUPIED BANDWIDTH.....	62
8.3.1. OCCUPIED BANDWIDTH RESULT	66
8.4. BAND EDGE EMISSIONS	77
8.4.1. BAND EDGE RESULT	80
8.4.2. EMISSION MASK RESULT	102
8.5. CONDUCTED SPURIOUS EMISSIONS	152
8.5.1. OUT OF BAND EMISSIONS RESULT	154
8.6. FREQUENCY STABILITY.....	161
8.6.1. FREQUENCY STABILITY RESULT	162
9. RADIATED RESULTS.....	165
9.1. RADIATED POWER (ERP & EIRP)	165
9.1.1. ERP/EIRP RESULT	166
9.2. RADIATED SPURIOUS EMISSION	173
9.2.1. SPURIOUS RADIATION RESULT	175

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC, WPT and UWB.

MODEL NUMBER: SC-55E, SCG28

SERIAL NUMBER: R3CX30KWQAL, R3CX30KWV3L (CONDUCTED);
R3CX30KWTZA, R3CX30KWQJE, R3CX30KWKPN (RADIATED);

DATE TESTED: 2024-04-30 - 2024-06-12;

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 27F,H,L,M	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:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

Tested By:



Yeonhee Lim
Suwon Lab Engineer
UL KOREA LTD.

2. TEST METHODOLOGY

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

1. FCC 47 CFR Part 2.
2. FCC 47 CFR Part 27.
3. ANSI TIA-603-E, 2016
4. ANSI C63.26, 2015
5. KDB 971168 D01 Power Meas License Digital Systems v03r01
6. KDB 971168 D02 Misc Rev Approv License Devices v02r02
7. KDB 412172 D01 Determining ERP and EIRP v01r01
8. KDB 648474 D03 Wireless Chargers Battery Cover v01r04

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	
☒	Chamber 1(3m semi-anechoic chamber)
☒	Chamber 2(3m semi-anechoic chamber)
☐	Chamber 3(3m semi-anechoic chamber)
☒	Chamber 4(3m Full-anechoic chamber)
☐	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:

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

$$\text{ERP} = \text{SG reading with EUT worst orientation (dBm)} - \text{cable loss(between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBd)}$$

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	2.79 dB
Radiated Disturbance, 9 kHz to 30 MHz	1.69 dB
Radiated Disturbance, 30 MHz to 1 GHz	4.07 dB
Radiated Disturbance, 1 GHz to 18 GHz	4.99 dB
Radiated Disturbance, Above 18 GHz	5.96 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 Clause 4.3.3 in IEC Guide 115:2023.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC, WPT and UWB. This test report addresses the WWAN operational mode.

Representative model	Difference	Derivative model
		SCG28
SC-55E	Hardware	Same as SC-55E
	Software	Different UI, not support LTE B66

The model SC-55E was used for final testing and is representative of the test results in this report.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum average radiated ERP / EIRP output powers as follows: Radiated samples were tested to a higher power than conducted resulting in radiated EIRP greater than conducted measurements.

LTE Band 12

FCC Part 27									
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted (ANT A)		Radiated (ANT A+B)		Radiated (ANT A)	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 12	704.00 ~ 711.00	10	QPSK	23.76	237.68	18.73	74.64	15.50	35.48
			16QAM	23.09	203.70	18.09	64.42	14.56	28.58
			64QAM	22.23	167.11				
			256QAM	19.16	82.41				
	701.50 ~ 713.50	5	QPSK	23.95	248.31	19.17	82.60	15.73	37.41
			16QAM	23.47	222.33	18.22	66.37	14.71	29.58
			64QAM	22.52	178.65				
			256QAM	19.17	82.60				
	700.50 ~ 714.50	3	QPSK	23.90	245.47	19.17	82.60	15.56	35.97
			16QAM	23.29	213.30	18.30	67.61	14.99	31.55
			64QAM	22.46	176.20				
			256QAM	19.34	85.90				
	699.70 ~ 715.30	1.4	QPSK	23.81	240.44	19.11	81.47	15.51	35.56
			16QAM	23.05	201.84	18.28	67.30	14.67	29.31
			64QAM	22.34	171.40				
			256QAM	19.13	81.85				

LTE Band 13

FCC Part 27									
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted (ANT A)		Radiated (ANT A+B)		Radiated (ANT A)	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 13	782.00	10	QPSK	24.78	300.61	20.55	113.50	17.24	52.97
			16QAM	24.24	265.46	19.47	88.51	16.39	43.55
			64QAM	23.01	199.99				
			256QAM	19.92	98.17				
	779.50 ~ 784.50	5	QPSK	25.01	316.96	20.64	115.88	17.36	54.45
			16QAM	24.40	275.42	20.11	102.57	16.50	44.67
			64QAM	23.31	214.29				
			256QAM	20.11	102.57				

LTE Band 41

FCC Part 27								
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 41	B	2506.00 ~ 2680.00	20	QPSK	24.59	287.74	24.09	256.45
				16QAM	23.58	228.03	23.26	211.84
				64QAM	22.22	166.72		
				256QAM	19.23	83.75		
		2503.50 ~ 2682.50	15	QPSK	24.50	281.84	24.04	253.51
				16QAM	23.60	229.09	23.19	208.45
				64QAM	22.26	168.27		
				256QAM	19.19	82.99		
		2501.00 ~ 2685.00	10	QPSK	24.48	280.54	24.00	251.19
				16QAM	23.58	228.03	23.08	203.24
				64QAM	22.25	167.88		
				256QAM	19.29	84.92		
		2498.50 ~ 2687.50	5	QPSK	24.50	281.84	24.09	256.45
				16QAM	23.57	227.51	23.17	207.49
				64QAM	22.47	176.60		
				256QAM	19.36	86.30		
Band 41	E	2506.00 ~ 2680.00	20	QPSK	24.28	268.16	23.28	212.81
				16QAM	23.32	214.78	22.35	171.79
				64QAM	22.30	169.82		
				256QAM	19.30	85.11		
		2503.50 ~ 2682.50	15	QPSK	24.28	268.16	23.22	209.89
				16QAM	23.33	215.28	22.36	172.19
				64QAM	22.26	168.42		
				256QAM	19.31	85.31		
		2501.00 ~ 2685.00	10	QPSK	24.28	268.16	23.36	216.77
				16QAM	23.29	213.30	22.50	177.83
				64QAM	22.29	169.43		
				256QAM	19.26	84.33		
		2498.50 ~ 2687.50	5	QPSK	24.29	268.53	23.39	218.27
				16QAM	23.27	212.52	22.45	175.79
				64QAM	22.26	168.42		
				256QAM	19.26	84.33		

LTE Band 41C (UL CA)

FCC Part 27								
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
41C	B	2506.00 ~ 2680.00	40MHz (20MHz / 20MHz)	QPSK	24.24	265.46	24.05	254.10
				16QAM	23.47	222.33	23.24	210.86
		2503.50 ~ 2682.50	35MHz (15MHz / 20MHz)	QPSK	24.20	263.03		
				16QAM	23.39	218.27		
		2503.50 ~ 2682.50	30MHz (15MHz / 15MHz)	QPSK	24.21	263.63		
				16QAM	23.35	216.27		
		2498.50 ~ 2680.0	25MHz (5MHz / 20MHz)	QPSK	24.13	258.82		
				16QAM	23.40	218.78		
41C	E	2506.00 ~ 2680.00	40MHz (20MHz / 20MHz)	QPSK	24.24	265.46	22.92	195.88
				16QAM	23.45	221.31	21.44	139.32
		2503.50 ~ 2682.50	35MHz (15MHz / 20MHz)	QPSK	24.12	258.23		
				16QAM	23.31	214.29		
		2503.50 ~ 2682.50	30MHz (15MHz / 15MHz)	QPSK	24.13	258.82		
				16QAM	23.22	209.89		
		2498.50 ~ 2680.0	25MHz (5MHz / 20MHz)	QPSK	24.15	260.02		
				16QAM	23.41	219.28		

LTE Band 66

FCC Part 27								
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 66	B	1720.00 ~ 1770.00	20	QPSK	24.31	269.77	25.07	321.37
				16QAM	23.55	226.46	24.38	274.16
				64QAM	22.60	181.97		
				256QAM	19.50	89.13		
		1717.50 ~ 1772.50	15	QPSK	24.33	271.02	25.37	344.35
				16QAM	23.53	225.42	24.61	289.07
				64QAM	22.47	176.60		
				256QAM	19.34	85.90		
		1715.00 ~ 1775.00	10	QPSK	24.33	271.02	25.44	349.95
				16QAM	23.52	224.91	24.44	277.97
				64QAM	22.63	183.23		
				256QAM	19.63	91.83		
		1712.50 ~ 1777.50	5	QPSK	24.40	275.42	25.49	354.00
				16QAM	23.91	246.04	24.78	300.61
				64QAM	22.72	187.07		
				256QAM	19.57	90.57		
		1711.50 ~ 1778.50	3	QPSK	24.40	275.42	25.48	353.18
				16QAM	23.79	239.33	24.79	301.30
				64QAM	22.70	186.21		
				256QAM	19.60	91.20		
		1710.70 ~ 1779.30	1.4	QPSK	24.34	271.64	25.47	352.37
				16QAM	23.79	239.33	24.43	277.33
				64QAM	22.61	182.39		
				256QAM	19.70	93.33		

NR Band n41

FCC Part 27										
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated		
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]	
n41	E	2546.01 ~ 2640.00	100	DFT-s OFDM	π/2 BPSK	24.28	267.92			
					QPSK	24.26	266.69	24.21	263.63	
					16QAM	23.37	217.27	23.14	206.06	
					64QAM	21.63	145.55			
					256QAM	19.62	91.62			
		2541.00 ~ 2644.98	90	DFT-s OFDM	CP-OFDM	QPSK	22.86	193.20		
					π/2 BPSK	24.29	268.53			
					QPSK	24.62	289.73	24.66	292.42	
					16QAM	23.39	218.27	23.69	233.88	
					64QAM	21.64	145.88			
		2536.02 ~ 2649.99	80	DFT-s OFDM	256QAM	19.69	93.11			
					CP-OFDM	QPSK	22.83	191.87		
					π/2 BPSK	24.46	279.25			
					QPSK	24.36	272.90	24.24	265.46	
					16QAM	23.17	207.49	23.18	207.97	
		2531.02 ~ 2654.98	70	DFT-s OFDM	64QAM	21.46	139.96			
					256QAM	19.58	90.78			
					CP-OFDM	QPSK	22.84	192.31		
					π/2 BPSK	24.14	259.42			
					QPSK	24.05	254.10	23.24	210.86	
		2526.00 ~ 2659.98	60	DFT-s OFDM	16QAM	23.04	201.37	22.34	171.40	
					64QAM	21.41	138.36			
					256QAM	19.46	88.31			
					CP-OFDM	QPSK	22.67	184.93		
					π/2 BPSK	24.22	264.24			
		2521.01 ~ 2665.00	50	DFT-s OFDM	QPSK	24.09	256.45	23.87	243.78	
					16QAM	23.05	201.84	23.09	203.70	
					64QAM	21.31	135.21			
					256QAM	19.40	87.10			
					CP-OFDM	QPSK	22.70	186.21		
		2516.01 ~ 2670.00	40	DFT-s OFDM	π/2 BPSK	24.44	277.97			
					QPSK	24.28	267.92	24.18	261.82	
					16QAM	23.25	211.35	23.14	206.06	
					64QAM	21.50	141.25			
					256QAM	19.58	90.78			
		2511.00 ~ 2675.00	30	DFT-s OFDM	CP-OFDM	QPSK	22.94	196.79		
					π/2 BPSK	24.18	261.82			
					QPSK	24.08	255.86	23.85	242.66	
					16QAM	22.96	197.70	22.70	186.21	
					64QAM	21.29	134.59			
		2508.51 ~ 2677.50	25	DFT-s OFDM	256QAM	19.33	85.70			
					CP-OFDM	QPSK	22.62	182.81		
					π/2 BPSK	24.43	277.33			
					QPSK	24.19	262.42	23.94	247.74	
					16QAM	23.17	207.49	23.10	204.17	
		2506.02 ~ 2679.99	20	DFT-s OFDM	64QAM	21.41	138.36			
					256QAM	19.48	88.72			
					CP-OFDM	QPSK	22.76	188.80		
					π/2 BPSK	24.36	272.90			
					QPSK	24.17	261.22	23.94	247.74	
		2503.50 ~ 2682.48	15	DFT-s OFDM	16QAM	23.20	208.93	22.92	195.88	
					64QAM	21.47	140.28			
					256QAM	19.49	88.92			
					CP-OFDM	QPSK	22.71	186.64		
					π/2 BPSK	24.39	274.79			
		2501.01 ~ 2685.00	10	DFT-s OFDM	QPSK	24.02	252.35	23.61	229.61	
					16QAM	22.95	197.24	22.68	185.35	
					64QAM	21.23	132.74			
					256QAM	19.26	84.33			
					CP-OFDM	QPSK	22.47	176.60		
		2500.50 ~ 2682.48	15	DFT-s OFDM	π/2 BPSK	24.27	267.30			
					QPSK	24.07	255.27	23.69	233.88	
					16QAM	22.91	195.43	22.67	184.93	
					64QAM	21.23	132.74			
					256QAM	19.34	85.90			
		2500.01 ~ 2685.00	10	DFT-s OFDM	CP-OFDM	QPSK	22.51	178.24		
					π/2 BPSK	24.28	267.92			
					QPSK	23.95	248.31	23.73	236.05	
					16QAM	22.78	189.67	22.64	183.65	
					64QAM	21.01	126.18			
		2500.01 ~ 2685.00	10	DFT-s OFDM	256QAM	19.14	82.04			
					CP-OFDM	QPSK	22.38	172.98		

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	B	2546.01 ~ 2640.00	100	DFT-s OFDM	$\pi/2$ BPSK	24.39	274.79		
					QPSK	24.40	275.42	24.14	259.42
					16QAM	23.59	228.56	23.00	199.53
					64QAM	21.73	148.94		
					256QAM	19.76	94.62		
		2541.00 ~ 2644.98	90	DFT-s OFDM	QPSK	22.97	198.15		
					$\pi/2$ BPSK	24.53	283.79		
					QPSK	24.57	286.42	24.24	265.46
					16QAM	23.53	225.42	23.14	206.06
					64QAM	21.82	152.05		
		2536.02 ~ 2649.99	80	DFT-s OFDM	256QAM	19.80	95.50		
					QPSK	23.08	203.24		
					$\pi/2$ BPSK	24.43	277.33		
					QPSK	24.54	284.45	24.06	254.68
					16QAM	23.44	220.80	23.34	215.77
		2531.02 ~ 2654.98	70	DFT-s OFDM	64QAM	21.76	149.97		
					256QAM	19.78	95.06		
					QPSK	22.99	199.07		
					$\pi/2$ BPSK	24.31	269.77		
					QPSK	24.33	271.02	23.74	236.59
		2526.00 ~ 2659.98	60	DFT-s OFDM	16QAM	23.30	213.80	22.83	191.87
					64QAM	21.74	149.28		
					256QAM	19.88	97.27		
					QPSK	23.09	203.70		
		2521.01 ~ 2665.00	50	DFT-s OFDM	$\pi/2$ BPSK	24.30	269.15		
					QPSK	24.26	266.69	23.70	234.42
					16QAM	23.27	212.32	22.63	183.23
					64QAM	21.54	142.56		
		2516.01 ~ 2670.00	40	DFT-s OFDM	256QAM	19.63	91.83		
					QPSK	22.92	195.88		
					$\pi/2$ BPSK	24.43	277.33		
					QPSK	24.47	279.90	24.18	261.82
					16QAM	23.25	211.35	22.96	197.70
		2511.00 ~ 2675.00	30	DFT-s OFDM	64QAM	21.58	143.88		
					256QAM	19.74	94.19		
					QPSK	22.91	195.43		
					$\pi/2$ BPSK	24.27	267.30		
		2508.51 ~ 2677.50	25	DFT-s OFDM	QPSK	24.30	269.15	23.62	230.14
					16QAM	23.10	204.17	22.68	185.35
					64QAM	21.21	132.13		
					256QAM	19.46	88.31		
		2506.02 ~ 2679.99	20	DFT-s OFDM	QPSK	22.51	178.24		
					$\pi/2$ BPSK	24.33	271.02		
					QPSK	24.28	267.92	23.78	238.78
					16QAM	23.12	205.12	22.76	188.80
		2503.50 ~ 2682.48	15	DFT-s OFDM	64QAM	21.30	134.90		
					256QAM	19.48	88.72		
					QPSK	22.58	181.13		
					$\pi/2$ BPSK	24.31	269.77		
		2501.01 ~ 2685.00	10	DFT-s OFDM	QPSK	24.28	267.92	24.22	264.24
					16QAM	23.11	204.64	23.24	210.86
					64QAM	21.33	135.83		
					256QAM	19.52	89.54		
		2500.01 ~ 2685.00	10	DFT-s OFDM	QPSK	22.57	180.72		
					$\pi/2$ BPSK	24.27	267.30		
					QPSK	24.09	256.45	23.78	238.78
					16QAM	23.10	204.17	22.75	188.36
					64QAM	21.19	131.52		
					256QAM	19.30	85.11		
					QPSK	22.53	179.06		
		2500.01 ~ 2685.00	10	DFT-s OFDM	$\pi/2$ BPSK	24.27	267.30		
					QPSK	24.22	264.24	24.04	253.51
					16QAM	23.09	203.70	22.95	197.24
					64QAM	21.34	136.14		
					256QAM	19.54	89.95		
		2500.01 ~ 2685.00	10	DFT-s OFDM	QPSK	22.56	180.30		
					$\pi/2$ BPSK	24.36	272.90		
					QPSK	24.05	254.10	24.09	256.45
					16QAM	23.10	204.17	22.93	196.34
					64QAM	21.27	133.97		
					256QAM	19.45	88.10		
					QPSK	22.61	182.39		

NR Band n66

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n66	B	1730.00 ~ 1760.00	40	DFT-s OFDM	$\pi/2$ BPSK	24.46	279.25		
					QPSK	24.41	276.06	23.86	243.22
					16QAM	23.30	213.80	23.05	201.84
					64QAM	21.90	154.88		
					256QAM	19.33	85.70		
				CP-OFDM	QPSK	22.87	193.64		
		1727.50 ~ 1762.50	35	DFT-s OFDM	$\pi/2$ BPSK	24.45	278.61		
					QPSK	24.48	280.54	24.32	270.40
					16QAM	23.36	216.77	23.52	224.91
					64QAM	21.99	158.12		
					256QAM	19.32	85.51		
				CP-OFDM	QPSK	22.90	194.98		
		1725.00 ~ 1765.00	30	DFT-s OFDM	$\pi/2$ BPSK	24.47	279.90		
					QPSK	24.54	284.45	24.17	261.22
					16QAM	23.35	216.27	23.31	214.29
					64QAM	22.08	161.44		
					256QAM	19.40	87.10		
				CP-OFDM	QPSK	23.12	205.12		
		1722.50 ~ 1767.50	25	DFT-s OFDM	$\pi/2$ BPSK	24.27	267.30		
					QPSK	24.27	267.30	23.90	245.47
					16QAM	23.17	207.49	23.18	207.97
					64QAM	21.99	158.12		
					256QAM	19.23	83.75		
				CP-OFDM	QPSK	23.00	199.53		
		1720.00 ~ 1770.00	20	DFT-s OFDM	$\pi/2$ BPSK	24.44	277.97		
					QPSK	24.42	276.69	23.65	231.74
					16QAM	23.34	215.77	22.92	195.88
					64QAM	22.04	159.96		
					256QAM	19.34	85.90		
				CP-OFDM	QPSK	22.85	192.75		
		1717.50 ~ 1772.50	15	DFT-s OFDM	$\pi/2$ BPSK	24.47	279.90		
					QPSK	24.37	273.53	23.56	226.99
					16QAM	23.22	209.89	22.82	191.43
					64QAM	21.90	154.88		
					256QAM	19.36	86.30		
				CP-OFDM	QPSK	22.97	198.15		
		1715.00 ~ 1775.00	10	DFT-s OFDM	$\pi/2$ BPSK	24.46	279.25		
					QPSK	24.43	277.33	23.50	223.87
					16QAM	23.29	213.30	22.92	195.88
					64QAM	21.84	152.76		
					256QAM	19.26	84.33		
				CP-OFDM	QPSK	22.79	190.11		
		1712.50 ~ 1777.50	5	DFT-s OFDM	$\pi/2$ BPSK	24.47	279.90		
					QPSK	24.39	274.79	23.62	230.14
					16QAM	23.23	210.38	22.54	179.47
					64QAM	21.89	154.53		
					256QAM	19.29	84.92		
				CP-OFDM	QPSK	22.95	197.24		

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n66	E	1730.00 ~ 1760.00	40	DFT-s OFDM	$\pi/2$ BPSK	24.19	262.42		
					QPSK	24.23	264.85	23.33	215.28
					16QAM	23.21	209.41	22.67	184.93
					64QAM	21.57	143.55		
					256QAM	19.23	83.75		
				CP-OFDM	QPSK	22.78	189.67		
		1727.50 ~ 1762.50	35	DFT-s OFDM	$\pi/2$ BPSK	24.22	264.24		
					QPSK	24.24	265.46	23.39	218.27
					16QAM	23.20	208.93	22.74	187.93
					64QAM	21.59	144.21		
					256QAM	19.28	84.72		
				CP-OFDM	QPSK	22.74	187.93		
		1725.00 ~ 1765.00	30	DFT-s OFDM	$\pi/2$ BPSK	24.31	269.77		
					QPSK	24.25	266.07	23.48	222.84
					16QAM	23.29	213.30	22.82	191.43
					64QAM	21.58	143.88		
					256QAM	19.37	86.50		
				CP-OFDM	QPSK	22.83	191.87		
		1722.50 ~ 1767.50	25	DFT-s OFDM	$\pi/2$ BPSK	24.23	264.85		
					QPSK	24.26	266.69	23.46	221.82
					16QAM	23.25	211.35	22.87	193.64
					64QAM	21.60	144.54		
					256QAM	19.34	85.90		
				CP-OFDM	QPSK	22.83	191.87		
		1720.00 ~ 1770.00	20	DFT-s OFDM	$\pi/2$ BPSK	24.18	261.82		
					QPSK	24.13	258.82	23.40	218.78
					16QAM	23.13	205.59	22.79	190.11
					64QAM	21.45	139.64		
					256QAM	19.14	82.04		
				CP-OFDM	QPSK	22.60	181.97		
		1717.50 ~ 1772.50	15	DFT-s OFDM	$\pi/2$ BPSK	24.22	264.24		
					QPSK	24.25	266.07	23.51	224.39
					16QAM	23.17	207.49	22.98	198.61
					64QAM	21.55	142.89		
					256QAM	19.25	84.14		
				CP-OFDM	QPSK	22.77	189.23		
		1715.00 ~ 1775.00	10	DFT-s OFDM	$\pi/2$ BPSK	24.34	271.64		
					QPSK	24.40	275.42	23.62	230.14
					16QAM	23.46	221.82	23.05	201.84
					64QAM	21.64	145.88		
					256QAM	19.37	86.50		
				CP-OFDM	QPSK	22.88	194.09		
		1712.50 ~ 1777.50	5	DFT-s OFDM	$\pi/2$ BPSK	24.28	267.92		
					QPSK	24.33	271.02	23.91	246.04
					16QAM	23.31	214.29	23.08	203.24
					64QAM	21.63	145.55		
					256QAM	19.28	84.72		
				CP-OFDM	QPSK	22.71	186.64		

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)	ANT	Peak Gain (dBi/dBd)
LTE Band 12 699 - 716 MHz	A+B	-6.0
	A	-5.4
LTE Band 13 777 - 787 MHz	A+B	-4.1
	A	-4.9
LTE Band 41 / NR Band n41 2496 - 2690 MHz	E	-4.5
	B	-1.7
LTE Band 4, 66 / NR Band n66 1710 - 1780 MHz	B	-1.8
	E	-4.2

5.4. WORST-CASE ORIENTATION

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

- 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 modulations. It was found QPSK and 16QAM results were worst case.

As for the Antenna Switches supported AFS (Adaptive Frame Switching) and Tx Hopping Algorithm. So the test case is as below

Band	Antenna Switching
LTE B12	AFS (Adaptive Frame Switching)
LTE B13	
LTE B41	Tx Hopping

- 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 QPSK and 16QAM results were worst case.

This device supports NSA and SA and Antenna Switching Mode.

Worst case reported both SA and Antenna Switching. So the test case is as below.

NR Band	NSA	SA	Antenna Switching
n66	LTE B2, B13	Stand Alone	Tx Hopping
n41 Switching	LTE B66	Stand Alone	Tx Hopping

- The AFS mode of device operates only in radiated state.

So both folded and open modes were tested and worst data is reported.

Condition	Antenna
Open, Half open, Full folded	A+B
Full folded (Grip)	

- It was tested for all rf ports and, 'Main ANT' conducted test power is the same or higher than 'Sub ANT', so we reported with 'Main ANT'.
- So the test case is as below.

Band	Main ANT	Tune up Limit (dBm)	Sub ANT	Tune up Limit (dBm)
LTE B12	<u>A</u>	25.2		
LTE B13	<u>A</u>	25.5		
LTE B66	<u>B</u>	25.0		
LTE B41	<u>B</u>	25.0	E	25.0
ULCA B41C	<u>B</u>	25.0	E	25.0
NR n41	<u>E</u>	25.0	B	25.0
NR n66	<u>B</u>	25.0	E	24.5

Test Item	Test case antenna & port
Conducted output power	All
RF port test	All (Worst case reported)
ERP / EIRP	All
Radiated Spurious Emissions	All

LTE Band 4 (ANT B)

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.

● Conducted Spurious Emission

Highest conducted output power setting for each bands					
LTE Band	ANT	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
12	A	701.50	5	1	12
		707.50		1	12
		713.50		1	0
13	A	779.50	5	1	12
		782.00		1	12
		784.50		1	0
41	B	2506.00	20	1	99
		2593.00		1	99
		2680.00		1	49
66	B	1712.50	5	1	12
		1745.00		1	0
		1777.50		1	12
NR Band	ANT	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
41	E	2541.00	90	1	1
		2592.99		1	243
		2644.98		1	1
66	B	1725.00	30	1	80
		1745.00		1	1
		1765.00		1	158

● Uplink CA Conducted Spurious Emission

Highest conducted output power setting for each bands						
LTE Band	ANT	Component Carrier	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
41C	B	PCC	2506.00	20+20	1	99
		SCC	2525.80		1	0
		SCC	2583.10		1	99
		PCC	2602.90		1	0
		SCC	2660.20		1	99
		SCC	2680.00		1	0

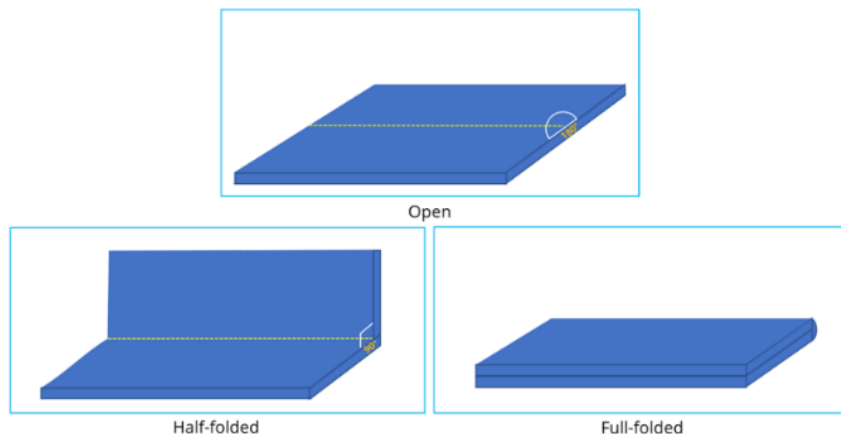
● Radiated Spurious Emission

Highest ERP/EIRP setting for each bands					
LTE Band	ANT	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
12	A+B	700.50	3	1	8
		707.50		1	8
		714.50		1	8
	A	701.50	5	1	12
		707.50		1	12
		713.50		1	0
13	A+B	779.50	5	1	12
		782.00		1	12
		784.50		1	0
	A	779.50	5	1	12
		782.00		1	12
		784.50		1	0
41	B	2506.00	5	1	0
		2593.00		1	12
		2680.00		1	12
	E	2498.50	5	1	0
		2593.00		1	12
		2687.50		1	12
66	B	1712.50	5	1	12
		1745.00		1	0
		1777.50		1	12
NR Band	ANT	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
41	E	2541.00	90	1	1
		2592.99		1	243
		2644.98		1	1
	B	2541.00	90	1	243
		2592.99		1	243
		2644.98		1	1
66	B	1727.50	35	1	93
		1745.00		1	93
		1762.50		1	93
	E	1712.50	5	1	1
		1745.00		1	1
		1777.50		1	13

● Uplink CA Ronducted Spurious Emission

Highest EIRP setting for each bands						
LTE Band	ANT	Component Carrier	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
41C	B	PCC	2506.00	20+20	1	99
		SCC	2525.80		1	0
		SCC	2583.10		1	99
		PCC	2602.90		1	0
		SCC	2660.20		1	99
		SCC	2680.00		1	0
	E	PCC	2506.00	20+20	1	99
		SCC	2525.80		1	0
		SCC	2583.10		1	99
		PCC	2602.90		1	0
		SCC	2660.20		1	99
		SCC	2680.00		1	0

The fundamental and radiated spurious emission were investigated in three orthogonal orientations X, Y and Z and folded conditions it was determined that below orientation was worst-case orientation for each band.



Band	ANT	ERP/EIRP			RSE		
		X	Y	Z	X	Y	Z
LTE B12	A+B	Open	-	-	-	-	Open
	A	-	-	Full-folded	-	Full-folded	-
LTE B13	A+B	Open	-	-	Half-folded	-	-
	A	-	-	Full-folded	Full-folded	-	-
LTE B41	B	-	Half-folded	-	Open	-	-
	E	-	Half-folded	-	-	Half-folded	-
LTE B41C	B	Open	-	-	Open	-	-
	E	-	Half-folded	-	-	Half-folded	-
LTE B66	B	Open	-	-	-	Open	-
NR n41	E	Half-folded	-	-	Open	-	-
	B	-	Full-folded	-	Open	-	-
NR n66	B	-	Full-folded	-	Full-folded	-	-
	E	Half-folded	-	-	-	-	Open

Note1 : For the 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.

Note2 : The EUT supported wireless charging capability. For the radiated spurious testing were performed on wireless charging pad. The worst case is shown in this report.

Note3 : Antenna switching-related actions according to foldable conditions were force operated and tested in factory mode.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacture	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37N9QP4R69DK3	N/A
Data Cable	SAMSUNG	EP-DN980	GH39-02117A	N/A
Wireless Charger	SAMSUNG	EP-N5200	RF7T20401XMCIS	A3LEPN5200
Wireless Charger	SAMSUNG	EP-P5400	RF7W800BH1CWSB	A3LEPP5400

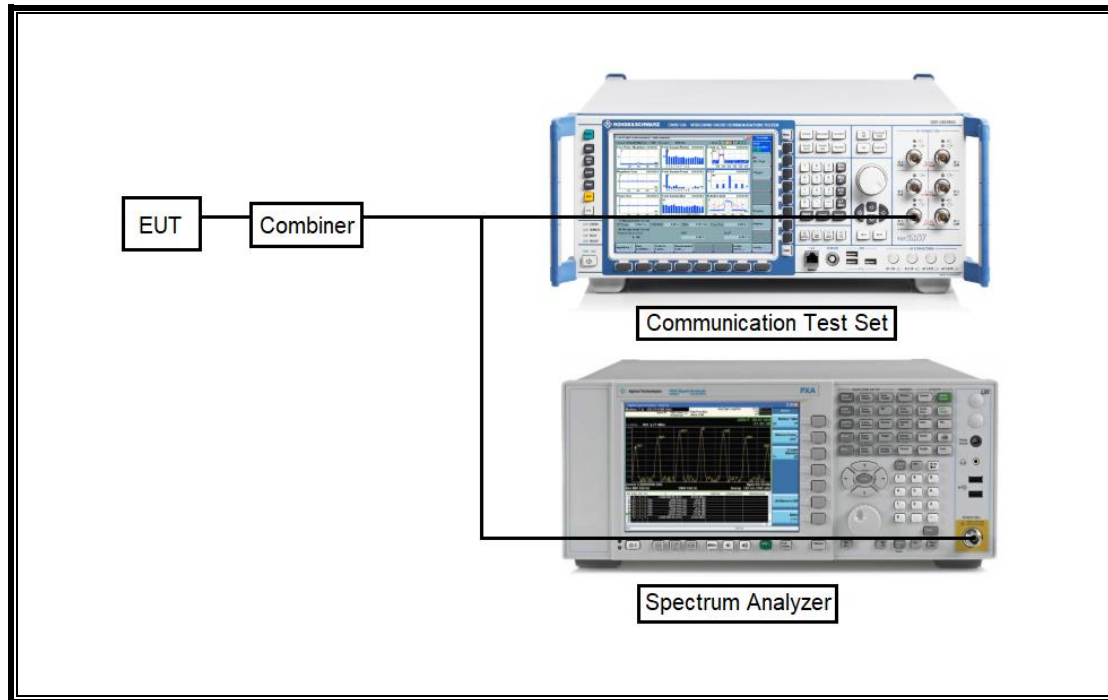
I/O CABLE

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

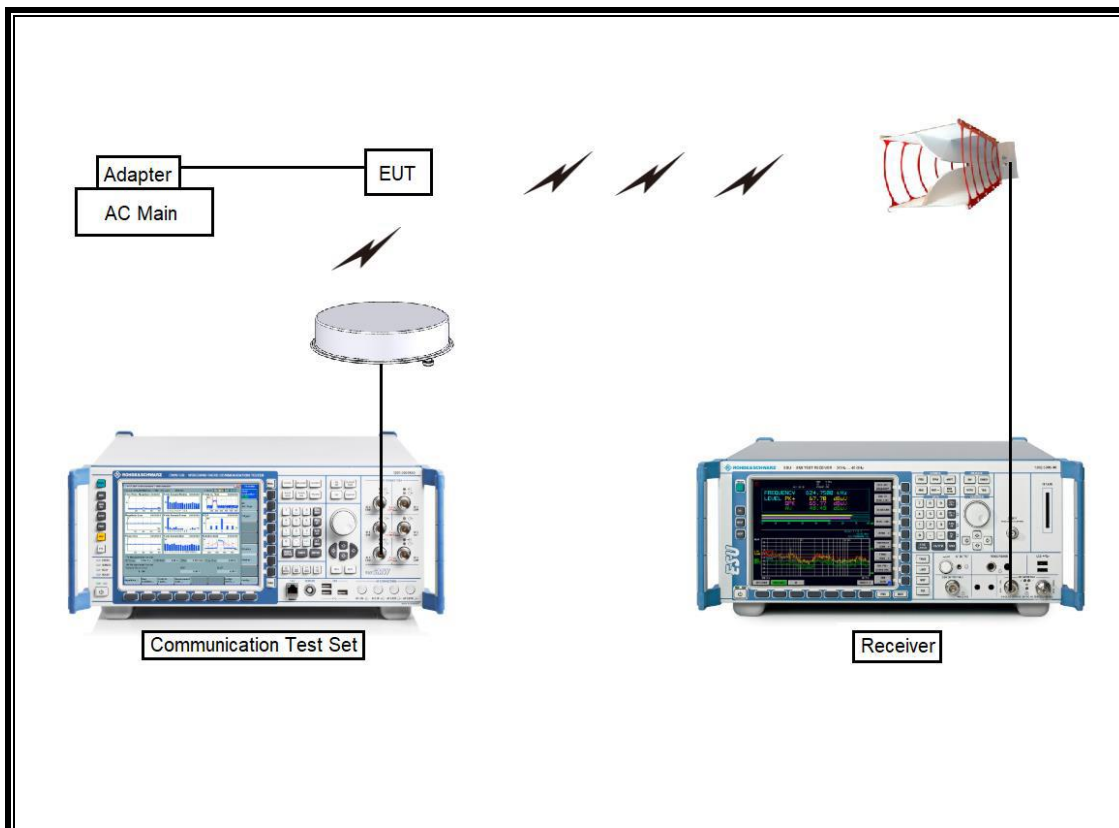
TEST SETUP

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	00166155	2024-08-02
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2025-10-05
Preamplifier	ETS	3115-PA	00167475	2024-07-25
Preamplifier	ETS	3116C-PA	00168841	2024-07-25
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	00167211	2024-08-04
Antenna, Horn, 18 GHz	ETS	3115	00161451	2024-08-21
Antenna, Horn, 18 GHz	ETS	3117	00168724	2024-08-04
Antenna, Horn, 18 GHz	ETS	3117	00168717	2024-08-21
Communications Test Set	R&S	CMW500	169797	2024-07-23
DC Power Supply	Agilent / HP	E3640A	MY54226395	2024-07-24
Preamplifier, 1000 MHz	Sonoma	310N	341282	2024-07-24
Preamplifier, 1000 MHz	Sonoma	310N	370599	2024-07-24
Preamplifier, 1000 MHz	Sonoma	310N	351741	2024-07-24
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2024-07-24
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	2024-07-25
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2024-07-25
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2024-07-24
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030B	MY57143717	2024-07-24
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2024-07-23
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2024-07-24
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	2024-07-23
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2024-07-23
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2024-07-24
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2024-07-24
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2024-07-24
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2024-07-24
Attenuator	PASTERNAK	PE7087-10	A009	2024-07-24
Attenuator	PASTERNAK	PE7087-10	A001	2024-07-24
Attenuator	PASTERNAK	PE7087-10	A008	2024-07-27
Attenuator	PASTERNAK	PE7004-10	2	2024-07-23
Attenuator	PASTERNAK	PE7395-10	A011	2024-07-25
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	2025-09-06
Temperature Chamber	ESPEC	SH-642	93001109	2024-07-24
Power Splitter	MINI-CIRCUITS	WA1534	UL003	2025-01-02
Power Splitter	MINI-CIRCUITS	WA1534	UL004	2025-01-02
UXM5G Wireless Test Platform	KEYSIGHT	E7515B	MY57510655	2025-01-03
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 Results
2.1046	Conducted Output Power	N/A	Conducted	Pass
2.1049	Occupied Bandwidth (99%)	N/A		Pass
27.53(c), 27.53(g), 27.53(h)	Conducted Band Edge / Conducted Spurious Emission	-13 dBm		Pass
27.53(m)		-25 dBm		Pass
27.53(m)	Emission Mask	Section 8.4.2		Pass
27.54	Frequency Stability	2.5 ppm		Pass
27.50(b)(10), 27.50(c)(10)	Effective Radiated Power	34.77 dBm	Radiated	Pass
27.50(h)(2)	Effective Isotropic Radiated Power	33 dBm		Pass
27.50(d)(4)		30 dBm		Pass
27.53(c), 27.53(g) 27.53(h)	Radiated Spurious Emission	-13 dBm		Pass
27.53(m)		-25 dBm		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

LTE Band 12 (ANT A)

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	23.74	23.70	23.63	0.0	25.2
		1	25	23.75	23.61	23.66	0.0	25.2
		1	49	23.58	23.76	23.57	0.0	25.2
		25	0	22.79	22.66	22.59	1.0	24.2
		25	12	22.74	22.69	22.62	1.0	24.2
		25	25	22.63	22.69	22.70	1.0	24.2
	16QAM	50	0	22.72	22.66	22.67	1.0	24.2
		1	0	22.93	22.92	23.02	1.0	24.2
		1	25	23.09	22.94	22.88	1.0	24.2
		1	49	22.83	22.88	22.86	1.0	24.2
		25	0	21.83	21.69	21.65	2.0	23.2
		25	12	21.78	21.66	21.66	2.0	23.2
	64QAM	25	25	21.67	21.66	21.73	2.0	23.2
		50	0	21.74	21.67	21.65	2.0	23.2
		1	0	22.17	22.03	21.97	2.0	23.2
		1	25	22.18	21.98	22.23	2.0	23.2
		1	49	21.93	22.07	21.80	2.0	23.2
		25	0	20.95	20.82	20.74	3.0	22.2
	256QAM	25	12	20.94	20.81	20.74	3.0	22.2
		25	25	20.77	20.79	20.84	3.0	22.2
		50	0	20.86	20.79	20.79	3.0	22.2
		1	0	19.16	18.90	18.78	5.0	20.2
		1	25	18.95	18.94	18.88	5.0	20.2
		1	49	18.55	18.83	18.75	5.0	20.2
5 MHz	QPSK	25	0	18.93	18.77	18.72	5.0	20.2
		25	12	18.97	18.80	18.76	5.0	20.2
		25	25	18.77	18.78	18.78	5.0	20.2
		50	0	18.88	18.79	18.86	5.0	20.2
	16QAM	1	0	23.92	23.67	23.71	0.0	25.2
		1	12	23.95	23.67	23.69	0.0	25.2
		1	24	23.64	23.61	23.63	0.0	25.2
		12	0	22.85	22.70	22.64	1.0	24.2
		12	7	22.83	22.71	22.65	1.0	24.2
		12	13	22.72	22.65	22.69	1.0	24.2
	64QAM	25	0	22.76	22.64	22.58	1.0	24.2
		1	0	23.30	23.16	23.11	1.0	24.2
		1	12	23.47	23.15	23.17	1.0	24.2
		1	24	23.28	22.98	23.17	1.0	24.2
		12	0	21.92	21.76	21.74	2.0	23.2
		12	7	21.87	21.79	21.69	2.0	23.2
	256QAM	12	13	21.76	21.75	21.73	2.0	23.2
		25	0	21.76	21.65	21.65	2.0	23.2
		1	0	22.52	22.10	22.19	2.0	23.2
		1	12	22.37	22.05	22.22	2.0	23.2
		1	24	22.16	21.96	22.29	2.0	23.2
		12	0	21.03	20.81	20.77	3.0	22.2
	16QAM	12	7	21.07	20.90	20.96	3.0	22.2
		12	13	20.92	20.79	20.82	3.0	22.2
		25	0	20.96	20.82	20.77	3.0	22.2
	256QAM	1	0	19.12	18.79	18.90	5.0	20.2
		1	12	19.17	19.00	19.07	5.0	20.2
		1	24	18.95	18.66	18.86	5.0	20.2
	64QAM	12	0	19.08	18.84	18.71	5.0	20.2
		12	7	19.05	18.83	18.88	5.0	20.2
		12	13	18.84	18.80	18.82	5.0	20.2
		25	0	19.01	18.75	18.75	5.0	20.2

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	23.85	23.58	23.56	0.0	25.2
		1	8	23.90	23.63	23.69	0.0	25.2
		1	14	23.79	23.52	23.57	0.0	25.2
		8	0	22.93	22.59	22.57	1.0	24.2
		8	4	22.88	22.62	22.61	1.0	24.2
		8	7	22.79	22.63	22.65	1.0	24.2
	16QAM	15	0	22.81	22.62	22.63	1.0	24.2
		1	0	23.29	23.04	22.92	1.0	24.2
		1	8	23.27	23.05	23.04	1.0	24.2
		1	14	23.08	22.97	22.85	1.0	24.2
		8	0	21.92	21.78	21.67	2.0	23.2
		8	4	21.99	21.74	21.70	2.0	23.2
	64QAM	8	7	21.86	21.66	21.81	2.0	23.2
		15	0	21.90	21.68	21.64	2.0	23.2
		1	0	22.35	21.91	21.75	2.0	23.2
		1	8	22.46	22.19	22.03	2.0	23.2
		1	14	22.24	21.90	21.72	2.0	23.2
		8	0	21.12	20.98	20.86	3.0	22.2
	256QAM	8	4	21.11	20.94	20.95	3.0	22.2
		8	7	21.07	20.94	20.91	3.0	22.2
		15	0	20.96	20.81	20.74	3.0	22.2
		1	0	19.13	18.84	18.76	5.0	20.2
		1	8	19.34	18.98	18.99	5.0	20.2
		1	14	18.93	18.76	18.84	5.0	20.2
1.4 MHz	QPSK	8	0	19.02	18.85	18.82	5.0	20.2
		8	4	19.08	18.87	18.86	5.0	20.2
		8	7	18.95	18.83	18.85	5.0	20.2
		15	0	19.00	18.76	18.74	5.0	20.2
	16QAM	1	0	23.77	23.53	23.59	0.0	25.2
		1	3	23.81	23.56	23.56	0.0	25.2
		1	5	23.74	23.50	23.57	0.0	25.2
		3	0	23.79	23.53	23.55	0.0	25.2
		3	1	23.78	23.55	23.56	0.0	25.2
		3	3	23.76	23.51	23.57	0.0	25.2
	64QAM	6	0	22.82	22.56	22.57	1.0	24.2
		1	0	23.04	22.81	22.80	1.0	24.2
		1	3	23.05	22.95	22.82	1.0	24.2
		1	5	22.99	22.87	22.89	1.0	24.2
		3	0	22.89	22.69	22.67	1.0	24.2
		3	1	22.91	22.64	22.70	1.0	24.2
	256QAM	3	3	22.90	22.66	22.76	1.0	24.2
		6	0	21.86	21.61	21.69	2.0	23.2
		1	0	22.15	21.92	21.97	2.0	23.2
		1	3	22.34	22.04	21.74	2.0	23.2
		1	5	22.12	21.89	22.01	2.0	23.2
		3	0	21.97	21.77	21.84	2.0	23.2
		3	1	22.11	21.78	21.93	2.0	23.2
		3	3	22.13	21.84	21.86	2.0	23.2
		6	0	20.99	20.79	20.82	3.0	22.2
		1	0	18.94	18.88	18.79	5.0	20.2
		1	3	19.13	18.98	18.91	5.0	20.2
		1	5	19.02	18.80	18.90	5.0	20.2
		3	0	19.02	18.67	18.84	5.0	20.2
		3	1	19.06	18.80	18.82	5.0	20.2
		3	3	18.99	18.84	18.77	5.0	20.2
		6	0	19.04	18.68	18.85	5.0	20.2

LTE Band 13 (ANT A)

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		24.63		0.0	25.5
		1	25		24.78		0.0	25.5
		1	49		24.77		0.0	25.5
		25	0		23.80		1.0	24.5
		25	12		23.76		1.0	24.5
		25	25		23.86		1.0	24.5
	16QAM	50	0		23.88		1.0	24.5
		1	0		24.12		1.0	24.5
		1	25		24.01		1.0	24.5
		1	49		24.24		1.0	24.5
		25	0		22.91		2.0	23.5
		25	12		22.84		2.0	23.5
	64QAM	25	25		22.84		2.0	23.5
		50	0		22.91		2.0	23.5
		1	0		22.91		2.0	23.5
		1	25		23.01		2.0	23.5
		1	49		22.98		2.0	23.5
		25	0		21.84		3.0	22.5
	256QAM	25	12		21.85		3.0	22.5
		25	25		21.73		3.0	22.5
		50	0		21.77		3.0	22.5
		1	0		19.92		5.0	20.5
		1	25		19.86		5.0	20.5
		1	49		19.70		5.0	20.5
5 MHz	QPSK	25	0		19.83		5.0	20.5
		25	12		19.81		5.0	20.5
		25	25		19.74		5.0	20.5
		50	0		19.77		5.0	20.5
	16QAM							
	64QAM							
	256QAM							

LTE Band 41 (ANT B)

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	24.15	24.29	24.44	0.0	25.0
		1	49	24.17	24.41	24.59	0.0	25.0
		1	99	24.22	24.49	24.51	0.0	25.0
		50	0	23.13	23.31	23.50	1.0	24.0
		50	24	23.22	23.48	23.59	1.0	24.0
		50	50	23.20	23.46	23.54	1.0	24.0
	16QAM	100	0	23.23	23.41	23.57	1.0	24.0
		1	0	23.55	23.55	23.58	1.0	24.0
		1	49	23.52	23.34	23.53	1.0	24.0
		1	99	23.58	23.50	23.42	1.0	24.0
		50	0	22.14	22.41	22.48	2.0	23.0
		50	24	22.25	22.49	22.59	2.0	23.0
	64QAM	50	50	22.19	22.52	22.59	2.0	23.0
		100	0	22.24	22.47	22.52	2.0	23.0
		1	0	21.81	22.05	22.06	2.0	23.0
		1	49	21.78	22.11	22.22	2.0	23.0
		1	99	21.90	22.11	22.22	2.0	23.0
		50	0	20.57	20.75	20.91	3.0	22.0
	256QAM	50	24	20.64	20.87	21.03	3.0	22.0
		50	50	20.64	20.86	20.98	3.0	22.0
		100	0	20.60	20.82	20.99	3.0	22.0
		1	0	18.94	19.08	19.12	5.0	20.0
		1	49	19.08	19.23	19.08	5.0	20.0
		1	99	19.09	19.20	19.13	5.0	20.0
15 MHz	QPSK	50	0	18.75	18.97	19.04	5.0	20.0
		50	24	18.86	19.05	19.12	5.0	20.0
		50	50	18.83	19.04	19.09	5.0	20.0
		100	0	18.83	18.98	19.09	5.0	20.0
	16QAM	1	0	24.17	24.30	24.50	0.0	25.0
		1	37	24.12	24.38	24.49	0.0	25.0
		1	74	24.20	24.41	24.50	0.0	25.0
		36	0	23.11	23.35	23.44	1.0	24.0
		36	20	23.19	23.49	23.46	1.0	24.0
		36	39	23.15	23.45	23.51	1.0	24.0
	64QAM	75	0	23.10	23.46	23.42	1.0	24.0
		1	0	23.49	23.60	23.45	1.0	24.0
		1	37	23.49	23.50	23.55	1.0	24.0
		1	74	23.40	23.58	23.46	1.0	24.0
		36	0	22.11	22.44	22.46	2.0	23.0
		36	20	22.22	22.54	22.51	2.0	23.0
	256QAM	36	39	22.20	22.47	22.53	2.0	23.0
		75	0	22.15	22.49	22.46	2.0	23.0
		1	0	21.85	21.89	21.96	2.0	23.0
		1	37	21.90	21.87	22.26	2.0	23.0
		1	74	21.96	22.01	22.03	2.0	23.0
		36	0	20.49	20.77	20.91	3.0	22.0
		36	20	20.62	20.94	20.97	3.0	22.0
		36	39	20.58	20.89	20.87	3.0	22.0
		75	0	20.56	20.88	20.91	3.0	22.0
		1	0	18.76	19.12	19.14	5.0	20.0
		1	37	18.92	19.19	19.07	5.0	20.0
		1	74	18.84	19.07	19.18	5.0	20.0
		36	0	18.72	19.01	18.96	5.0	20.0
		36	20	18.80	19.10	18.99	5.0	20.0
		36	39	18.77	19.09	19.06	5.0	20.0
		75	0	18.75	19.11	19.01	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	24.15	24.31	24.43	0.0	25.0	
		1	25	24.18	24.44	24.48	0.0	25.0	
		1	49	24.06	24.31	24.43	0.0	25.0	
		25	0	23.15	23.40	23.44	1.0	24.0	
		25	12	23.21	23.50	23.52	1.0	24.0	
		25	25	23.19	23.49	23.60	1.0	24.0	
	16QAM	50	0	23.18	23.53	23.47	1.0	24.0	
		1	0	23.41	23.41	23.45	1.0	24.0	
		1	25	23.58	23.49	23.48	1.0	24.0	
		1	49	23.43	23.45	23.52	1.0	24.0	
		25	0	22.22	22.42	22.50	2.0	23.0	
		25	12	22.25	22.56	22.61	2.0	23.0	
	64QAM	25	25	22.26	22.54	22.59	2.0	23.0	
		50	0	22.16	22.53	22.44	2.0	23.0	
		1	0	21.72	22.10	22.23	2.0	23.0	
		1	25	21.78	22.16	22.25	2.0	23.0	
		1	49	21.83	22.10	22.12	2.0	23.0	
		25	0	20.63	20.74	20.84	3.0	22.0	
	256QAM	25	12	20.60	20.90	21.00	3.0	22.0	
		25	25	20.48	20.96	20.99	3.0	22.0	
		50	0	20.52	20.84	20.94	3.0	22.0	
		1	0	18.83	19.00	19.09	5.0	20.0	
		1	25	18.89	19.29	19.22	5.0	20.0	
		1	49	18.86	19.19	19.19	5.0	20.0	
5 MHz	QPSK	25	0	18.82	19.03	18.98	5.0	20.0	
		25	12	18.85	19.07	19.09	5.0	20.0	
		25	25	18.79	19.12	19.08	5.0	20.0	
		50	0	18.75	19.11	18.99	5.0	20.0	
		Measured Pwr (dBm)			MPR	Tune-up Limit			
20775									
21100									
5 MHz	16QAM	21425			MPR	Tune-up Limit			
		2502.50 MHz							
		2535.00 MHz					MPR	Tune-up Limit	
		2567.50 MHz							
		64QAM	1	0	24.17	24.44			24.48
			1	12	24.13	24.50	24.49	0.0	25.0
	1		24	24.01	24.37	24.48	0.0	25.0	
	12		0	23.16	23.42	23.58	1.0	24.0	
	12		7	23.15	23.46	23.55	1.0	24.0	
	12		13	23.12	23.46	23.51	1.0	24.0	
	256QAM	25	0	23.15	23.48	23.48	1.0	24.0	
		1	0	23.56	23.49	23.49	1.0	24.0	
		1	12	23.57	23.50	23.50	1.0	24.0	
		1	24	23.54	23.48	23.37	1.0	24.0	
		12	0	22.22	22.48	22.42	2.0	23.0	
		12	7	22.20	22.56	22.41	2.0	23.0	
	16QAM	12	13	22.20	22.52	22.61	2.0	23.0	
		25	0	22.10	22.50	22.50	2.0	23.0	
		1	0	21.70	22.47	21.93	2.0	23.0	
		1	12	21.72	22.15	22.22	2.0	23.0	
		1	24	21.67	22.14	22.04	2.0	23.0	
		12	0	20.56	20.86	21.05	3.0	22.0	
	64QAM	12	7	20.66	20.91	20.98	3.0	22.0	
		12	13	20.62	20.89	20.96	3.0	22.0	
25		0	20.53	20.85	20.94	3.0	22.0		
1		0	18.99	19.02	19.27	5.0	20.0		
1		12	18.82	19.12	19.36	5.0	20.0		
1		24	18.85	19.14	19.10	5.0	20.0		
256QAM	12	0	18.76	19.07	19.13	5.0	20.0		
	12	7	18.92	19.08	19.06	5.0	20.0		
	12	13	18.69	19.05	19.12	5.0	20.0		
	25	0	18.79	19.06	19.13	5.0	20.0		

LTE Band 41 (ANT E)

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	24.28	23.93	23.97	0.0	25.0
		1	49	24.28	24.12	24.04	0.0	25.0
		1	99	24.20	24.17	23.79	0.0	25.0
		50	0	23.30	23.03	22.94	1.0	24.0
		50	24	23.19	23.18	22.97	1.0	24.0
		50	50	23.20	23.14	22.99	1.0	24.0
	16QAM	100	0	23.18	23.09	22.97	1.0	24.0
		1	0	23.16	23.27	23.32	1.0	24.0
		1	49	23.14	23.23	23.32	1.0	24.0
		1	99	23.16	23.26	23.29	1.0	24.0
		50	0	22.33	22.05	21.98	2.0	23.0
		50	24	22.27	22.21	22.02	2.0	23.0
	64QAM	50	50	22.17	22.16	22.04	2.0	23.0
		100	0	22.25	22.13	22.00	2.0	23.0
		1	0	22.26	22.02	22.16	2.0	23.0
		1	49	22.25	22.18	22.30	2.0	23.0
		1	99	22.01	22.22	21.96	2.0	23.0
		50	0	21.04	20.75	20.90	3.0	22.0
	256QAM	50	24	20.99	20.93	20.98	3.0	22.0
		50	50	20.92	20.89	20.88	3.0	22.0
		100	0	20.97	20.84	20.90	3.0	22.0
		1	0	19.19	18.90	18.98	5.0	20.0
		1	49	19.30	19.06	19.19	5.0	20.0
		1	99	19.13	19.06	18.92	5.0	20.0
15 MHz	QPSK	50	0	19.03	18.82	18.90	5.0	20.0
		50	24	18.95	18.95	18.93	5.0	20.0
		50	50	18.87	18.91	18.89	5.0	20.0
		100	0	18.93	18.89	18.83	5.0	20.0
	16QAM	1	0	24.28	24.01	23.97	0.0	25.0
		1	37	24.28	24.05	23.99	0.0	25.0
		1	74	24.14	24.16	23.84	0.0	25.0
		36	0	23.23	23.04	22.91	1.0	24.0
		36	20	23.26	23.14	22.91	1.0	24.0
		36	39	23.16	23.16	22.94	1.0	24.0
	64QAM	75	0	23.15	23.13	22.86	1.0	24.0
		1	0	23.16	23.27	23.33	1.0	24.0
		1	37	23.14	23.23	23.22	1.0	24.0
		1	74	23.16	23.26	23.21	1.0	24.0
		36	0	22.33	22.06	21.90	2.0	23.0
		36	20	22.25	22.17	21.98	2.0	23.0
	256QAM	36	39	22.23	22.15	21.97	2.0	23.0
		75	0	22.19	22.16	21.94	2.0	23.0
		1	0	22.26	22.23	22.16	2.0	23.0
		1	37	22.25	22.20	22.14	2.0	23.0
		1	74	22.25	22.20	21.96	2.0	23.0
		36	0	21.08	20.83	20.84	3.0	22.0
		36	20	21.05	20.94	20.92	3.0	22.0
		36	39	20.91	20.94	20.91	3.0	22.0
		75	0	20.91	20.85	20.81	3.0	22.0
		1	0	19.27	18.97	18.80	5.0	20.0
		1	37	19.30	19.12	18.92	5.0	20.0
		1	74	19.05	19.31	18.84	5.0	20.0
		36	0	18.96	18.87	18.88	5.0	20.0
		36	20	19.02	18.98	18.76	5.0	20.0
		36	39	18.91	18.97	18.82	5.0	20.0
		75	0	18.92	18.96	18.81	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	24.28	24.01	23.95	0.0	25.0
		1	25	24.26	24.16	23.95	0.0	25.0
		1	49	24.24	24.06	23.81	0.0	25.0
		25	0	23.28	23.15	22.90	1.0	24.0
		25	12	23.19	23.23	22.94	1.0	24.0
		25	25	23.20	23.20	23.01	1.0	24.0
	16QAM	50	0	23.26	23.15	22.88	1.0	24.0
		1	0	23.16	23.27	23.29	1.0	24.0
		1	25	23.14	23.23	23.28	1.0	24.0
		1	49	23.16	23.26	23.23	1.0	24.0
		25	0	22.28	22.14	21.90	2.0	23.0
		25	12	22.30	22.26	21.94	2.0	23.0
	64QAM	25	25	22.22	22.24	22.04	2.0	23.0
		50	0	22.23	22.23	21.94	2.0	23.0
		1	0	22.26	22.09	22.05	2.0	23.0
		1	25	22.25	22.16	22.22	2.0	23.0
		1	49	22.11	22.29	22.08	2.0	23.0
		25	0	21.04	20.84	20.87	3.0	22.0
	256QAM	25	12	20.96	20.93	20.86	3.0	22.0
		25	25	20.98	21.02	20.95	3.0	22.0
		50	0	21.02	20.89	20.88	3.0	22.0
		1	0	19.07	18.88	18.79	5.0	20.0
		1	25	19.15	19.26	18.93	5.0	20.0
		1	49	18.84	19.02	18.91	5.0	20.0
5 MHz	QPSK	25	0	19.01	18.89	18.81	5.0	20.0
		25	12	19.04	19.02	18.80	5.0	20.0
		25	25	18.97	18.96	18.81	5.0	20.0
		50	0	18.91	18.95	18.77	5.0	20.0
	16QAM	1	0	24.28	24.08	23.89	0.0	25.0
		1	12	24.28	24.29	23.98	0.0	25.0
		1	24	24.22	24.06	23.87	0.0	25.0
		12	0	23.27	23.10	22.94	1.0	24.0
		12	7	23.27	23.16	22.99	1.0	24.0
		12	13	23.27	23.16	22.99	1.0	24.0
	64QAM	25	0	23.23	23.18	22.99	1.0	24.0
		1	0	23.16	23.27	23.23	1.0	24.0
		1	12	23.14	23.23	23.25	1.0	24.0
		1	24	23.16	23.26	23.27	1.0	24.0
		12	0	22.29	22.06	22.10	2.0	23.0
		12	7	22.26	22.28	22.10	2.0	23.0
	256QAM	12	13	22.34	22.23	21.95	2.0	23.0
		25	0	22.34	22.17	21.92	2.0	23.0
		1	0	22.26	22.14	22.13	2.0	23.0
		1	12	22.25	22.21	22.22	2.0	23.0
		1	24	22.21	22.05	22.03	2.0	23.0
		12	0	21.10	20.77	20.89	3.0	22.0
	16QAM	12	7	21.09	20.99	20.88	3.0	22.0
		12	13	21.03	20.88	20.94	3.0	22.0
		25	0	21.00	20.91	20.90	3.0	22.0
	256QAM	1	0	19.26	19.10	19.01	5.0	20.0
		1	12	19.22	19.17	18.96	5.0	20.0
		1	24	19.02	19.04	18.80	5.0	20.0
	64QAM	12	0	19.04	18.85	18.84	5.0	20.0
		12	7	19.05	19.02	18.82	5.0	20.0
		12	13	19.08	18.95	18.78	5.0	20.0
		25	0	19.02	18.89	18.86	5.0	20.0

LTE Band 41C (UL CA) (ANT B)

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)	2506.00	2525.80	1	99	1	0	23.41	22.60
			1	0	1	99	14.99	15.13
			100	0	100	0	21.66	20.72
	2583.10	2602.90	1	99	1	0	24.03	23.27
			1	0	1	99	15.73	15.81
			100	0	100	0	21.87	20.85
	2660.20	2680.00	1	99	1	0	24.24	23.47
			1	0	1	99	16.04	16.11
			100	0	100	0	22.67	21.71

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)	2503.50	2520.60	1	74	1	0	22.29	21.28
			1	0	1	99	15.71	15.81
			75	0	100	0	22.30	21.44
	2583.20	2600.30	1	74	1	0	24.13	23.39
			1	0	1	99	15.86	15.94
			75	0	100	0	22.47	21.45
	2662.90	2680.00	1	74	1	0	24.20	23.31
			1	0	1	99	16.11	16.25
			75	0	100	0	22.71	21.73

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)	2503.50	2518.50	1	74	1	0	23.95	23.24
			1	0	1	74	15.70	15.94
			75	0	75	0	22.24	21.33
	2585.50	2600.50	1	74	1	0	24.21	23.35
			1	0	1	74	15.94	16.20
			75	0	75	0	22.51	21.45
	2667.50	2682.50	1	74	1	0	24.18	23.11
			1	0	1	74	15.65	15.77
			75	0	75	0	22.68	21.73

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)	2498.50	2510.20	1	24	1	0	23.89	23.05
			1	0	1	99	15.72	15.93
			25	0	100	0	22.26	21.22
	2583.60	2595.30	1	24	1	0	24.13	23.40
			1	0	1	99	15.89	16.02
			25	0	100	0	22.45	21.50
	2668.30	2680.00	1	24	1	0	24.13	23.22
			1	0	1	99	16.10	16.20
			25	0	100	0	22.79	21.79

LTE Band 41C (UL CA) (ANT E)

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)	2506.00	2525.80	1	99	1	0	24.04	23.19
			1	0	1	99	15.77	15.79
			100	0	100	0	22.37	21.36
	2583.10	2602.90	1	99	1	0	23.97	23.14
			1	0	1	99	15.64	15.66
			100	0	100	0	22.31	21.33
	2660.20	2680.00	1	99	1	0	24.24	23.45
			1	0	1	99	15.84	15.88
			100	0	100	0	22.50	21.53

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)	2503.50	2520.60	1	74	1	0	24.06	23.28
			1	0	1	99	15.78	15.91
			75	0	100	0	22.41	21.43
	2583.20	2600.30	1	74	1	0	23.96	23.20
			1	0	1	99	15.70	15.87
			75	0	100	0	22.32	21.32
	2662.90	2680.00	1	74	1	0	24.12	23.31
			1	0	1	99	15.82	15.99
			75	0	100	0	22.51	21.53

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)	2503.50	2518.50	1	74	1	0	24.08	23.21
			1	0	1	74	15.88	15.94
			75	0	75	0	22.43	21.33
	2585.50	2600.50	1	74	1	0	23.92	22.84
			1	0	1	74	15.68	15.74
			75	0	75	0	22.14	21.32
	2667.50	2682.50	1	74	1	0	24.13	23.22
			1	0	1	74	15.59	15.68
			75	0	75	0	22.41	21.35

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)	2498.50	2510.20	1	24	1	0	24.15	23.23
			1	0	1	99	15.82	15.96
			25	0	100	0	22.43	21.35
	2583.60	2595.30	1	24	1	0	23.96	22.84
			1	0	1	99	15.76	15.91
			25	0	100	0	22.29	21.33
	2668.30	2680.00	1	24	1	0	24.07	23.41
			1	0	1	99	15.71	15.85
			25	0	100	0	22.45	21.33

LTE Band 66 (ANT B)

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	24.31	24.02	23.89	0.0	25.0
		1	49	24.26	24.01	23.83	0.0	25.0
		1	99	24.08	23.93	23.78	0.0	25.0
		50	0	23.33	23.07	22.89	1.0	24.0
		50	24	23.22	23.00	22.87	1.0	24.0
		50	50	23.15	22.99	22.84	1.0	24.0
	16QAM	100	0	23.19	23.01	22.85	1.0	24.0
		1	0	23.47	23.47	23.23	1.0	24.0
		1	49	23.55	23.33	23.31	1.0	24.0
		1	99	23.35	23.21	23.09	1.0	24.0
		50	0	22.37	22.04	21.88	2.0	23.0
		50	24	22.26	22.03	21.91	2.0	23.0
	64QAM	50	50	22.17	22.00	21.91	2.0	23.0
		100	0	22.18	22.02	21.88	2.0	23.0
		1	0	22.60	22.35	21.94	2.0	23.0
		1	49	22.56	22.25	22.08	2.0	23.0
		1	99	22.39	22.12	22.19	2.0	23.0
		50	0	21.33	21.07	20.88	3.0	22.0
	256QAM	50	24	21.28	20.99	20.91	3.0	22.0
		50	50	21.18	20.94	20.84	3.0	22.0
		100	0	21.20	20.98	20.88	3.0	22.0
		1	0	19.31	19.07	19.01	5.0	20.0
		1	49	19.50	18.97	19.03	5.0	20.0
		1	99	19.31	18.87	18.66	5.0	20.0
15 MHz	QPSK	50	0	19.31	19.00	18.91	5.0	20.0
		50	24	19.28	18.97	18.91	5.0	20.0
		50	50	19.12	18.91	18.83	5.0	20.0
		100	0	19.20	19.01	18.87	5.0	20.0
	16QAM	1	0	24.33	23.96	23.87	0.0	25.0
		1	37	24.31	23.87	23.80	0.0	25.0
		1	74	24.14	23.83	23.79	0.0	25.0
		36	0	23.30	23.00	22.84	1.0	24.0
		36	20	23.22	22.97	22.82	1.0	24.0
		36	39	23.18	22.93	22.83	1.0	24.0
	64QAM	75	0	23.17	22.93	22.82	1.0	24.0
		1	0	23.53	23.23	23.07	1.0	24.0
		1	37	23.45	23.22	23.19	1.0	24.0
		1	74	23.34	23.17	23.07	1.0	24.0
		36	0	22.37	22.02	21.89	2.0	23.0
		36	20	22.26	21.99	21.89	2.0	23.0
	256QAM	36	39	22.23	22.00	21.88	2.0	23.0
		75	0	22.24	21.99	21.87	2.0	23.0
		1	0	22.47	22.29	22.05	2.0	23.0
		1	37	22.46	22.28	22.14	2.0	23.0
		1	74	22.27	22.31	22.11	2.0	23.0
		36	0	21.35	21.01	20.90	3.0	22.0
	QPSK	36	20	21.33	21.01	20.85	3.0	22.0
		36	39	21.18	20.94	20.91	3.0	22.0
		75	0	21.25	20.98	20.83	3.0	22.0
		1	0	19.33	19.13	18.85	5.0	20.0
		1	37	19.21	18.96	18.87	5.0	20.0
		1	74	19.25	19.10	18.95	5.0	20.0
	16QAM	36	0	19.34	19.01	18.82	5.0	20.0
		36	20	19.28	18.98	18.79	5.0	20.0
		36	39	19.14	18.98	18.89	5.0	20.0
		75	0	19.32	18.96	18.74	5.0	20.0

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	24.26	23.95	23.88	0.0	25.0
		1	25	24.33	24.03	23.82	0.0	25.0
		1	49	24.15	23.87	23.77	0.0	25.0
		25	0	23.36	23.00	22.87	1.0	24.0
		25	12	23.35	23.06	22.90	1.0	24.0
		25	25	23.27	23.01	22.89	1.0	24.0
	16QAM	50	0	23.27	22.91	22.79	1.0	24.0
		1	0	23.47	23.30	23.12	1.0	24.0
		1	25	23.52	23.34	23.22	1.0	24.0
		1	49	23.35	23.16	23.10	1.0	24.0
		25	0	22.38	22.04	21.87	2.0	23.0
		25	12	22.45	22.05	21.93	2.0	23.0
	64QAM	25	25	22.28	22.07	21.91	2.0	23.0
		50	0	22.39	21.99	21.84	2.0	23.0
		1	0	22.58	22.10	21.98	2.0	23.0
		1	25	22.63	22.16	22.11	2.0	23.0
		1	49	22.37	22.01	21.80	2.0	23.0
		25	0	21.34	20.98	20.97	3.0	22.0
	256QAM	25	12	21.29	20.98	20.88	3.0	22.0
		25	25	21.28	21.00	20.92	3.0	22.0
		50	0	21.19	20.98	20.90	3.0	22.0
		1	0	19.44	19.12	19.06	5.0	20.0
		1	25	19.63	19.04	18.99	5.0	20.0
		1	49	19.19	18.94	18.80	5.0	20.0
5 MHz	QPSK	25	0	19.31	18.99	18.90	5.0	20.0
		25	12	19.27	18.93	18.90	5.0	20.0
		25	25	19.21	18.98	18.97	5.0	20.0
		50	0	19.24	18.96	18.82	5.0	20.0
	16QAM	1	0	24.31	24.00	23.85	0.0	25.0
		1	12	24.40	23.97	23.97	0.0	25.0
		1	24	24.25	23.97	23.81	0.0	25.0
		12	0	23.36	23.02	22.86	1.0	24.0
		12	7	23.39	23.04	22.93	1.0	24.0
		12	13	23.27	23.02	22.84	1.0	24.0
	64QAM	25	0	23.23	23.02	22.86	1.0	24.0
		1	0	23.70	23.55	23.35	1.0	24.0
		1	12	23.91	23.62	23.36	1.0	24.0
		1	24	23.61	23.38	23.16	1.0	24.0
		12	0	22.49	22.11	21.91	2.0	23.0
		12	7	22.51	22.15	21.92	2.0	23.0
	256QAM	12	13	22.42	22.08	21.88	2.0	23.0
		25	0	22.31	22.01	21.89	2.0	23.0
		1	0	22.72	22.27	22.25	2.0	23.0
		1	12	22.46	22.25	22.36	2.0	23.0
		1	24	22.50	22.12	22.27	2.0	23.0
		12	0	21.34	20.99	20.93	3.0	22.0
	16QAM	12	7	21.43	21.02	21.00	3.0	22.0
		12	13	21.30	20.95	20.92	3.0	22.0
		25	0	21.32	20.95	20.87	3.0	22.0
	256QAM	1	0	19.38	19.05	18.95	5.0	20.0
		1	12	19.57	19.37	19.04	5.0	20.0
		1	24	19.28	19.05	18.97	5.0	20.0
	64QAM	12	0	19.33	18.90	18.91	5.0	20.0
		12	7	19.38	19.01	18.93	5.0	20.0
		12	13	19.27	18.95	18.92	5.0	20.0
		25	0	19.27	18.90	18.83	5.0	20.0

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	24.32	23.96	23.81	0.0	25.0
		1	8	24.40	24.05	23.97	0.0	25.0
		1	14	24.30	23.87	23.71	0.0	25.0
		8	0	23.38	23.02	22.83	1.0	24.0
		8	4	23.32	23.06	22.88	1.0	24.0
		8	7	23.31	23.05	22.85	1.0	24.0
	16QAM	15	0	23.32	23.02	22.86	1.0	24.0
		1	0	23.64	23.47	23.19	1.0	24.0
		1	8	23.79	23.55	23.22	1.0	24.0
		1	14	23.64	23.36	23.08	1.0	24.0
		8	0	22.44	22.12	21.98	2.0	23.0
		8	4	22.42	22.13	21.92	2.0	23.0
	64QAM	8	7	22.44	22.13	21.96	2.0	23.0
		15	0	22.31	22.02	21.92	2.0	23.0
		1	0	22.70	22.21	22.02	2.0	23.0
		1	8	22.59	22.24	22.03	2.0	23.0
		1	14	22.53	22.38	22.08	2.0	23.0
		8	0	21.44	21.08	20.94	3.0	22.0
	256QAM	8	4	21.42	21.10	20.96	3.0	22.0
		8	7	21.38	21.10	21.03	3.0	22.0
		15	0	21.35	20.98	20.88	3.0	22.0
		1	0	19.60	19.13	19.14	5.0	20.0
		1	8	19.47	19.21	19.01	5.0	20.0
		1	14	19.21	19.05	18.99	5.0	20.0
1.4 MHz	QPSK	8	0	19.50	19.04	18.96	5.0	20.0
		8	4	19.36	19.01	18.95	5.0	20.0
		8	7	19.36	19.05	18.94	5.0	20.0
		15	0	19.29	18.93	18.87	5.0	20.0
	16QAM	1	0	24.29	23.97	23.78	0.0	25.0
		1	3	24.27	23.95	23.74	0.0	25.0
		1	5	24.34	23.94	23.81	0.0	25.0
		3	0	24.33	23.90	23.78	0.0	25.0
		3	1	24.32	23.94	23.78	0.0	25.0
		3	3	24.31	23.96	23.76	0.0	25.0
	64QAM	6	0	23.37	22.98	22.80	1.0	24.0
		1	0	23.72	23.22	23.00	1.0	24.0
		1	3	23.79	23.20	22.92	1.0	24.0
		1	5	23.68	23.13	22.91	1.0	24.0
		3	0	23.43	23.10	22.87	1.0	24.0
		3	1	23.47	23.07	22.93	1.0	24.0
	256QAM	3	3	23.46	23.11	22.90	1.0	24.0
		6	0	22.37	22.05	21.87	2.0	23.0
		1	0	22.54	22.26	22.14	2.0	23.0
		1	3	22.58	22.43	22.12	2.0	23.0
		1	5	22.61	22.13	22.16	2.0	23.0
		3	0	22.38	22.23	22.02	2.0	23.0
	QPSK	3	1	22.51	22.04	21.95	2.0	23.0
		3	3	22.50	22.13	21.98	2.0	23.0
		6	0	21.39	21.01	20.86	3.0	22.0
	16QAM	1	0	19.41	18.88	18.85	5.0	20.0
		1	3	19.70	18.98	18.89	5.0	20.0
		1	5	19.49	19.14	19.03	5.0	20.0
	64QAM	3	0	19.34	18.92	18.86	5.0	20.0
		3	1	19.37	19.03	18.82	5.0	20.0
		3	3	19.37	18.92	18.90	5.0	20.0
		6	0	19.44	18.94	18.85	5.0	20.0
	256QAM	1	0	19.41	18.88	18.85	5.0	20.0
		1	3	19.70	18.98	18.89	5.0	20.0
		1	5	19.49	19.14	19.03	5.0	20.0
		3	0	19.34	18.92	18.86	5.0	20.0
		3	1	19.37	19.03	18.82	5.0	20.0
		3	3	19.37	18.92	18.90	5.0	20.0

NR Band n41 (ANT E)

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	$\pi/2$ BPSK	1	1	24.14	23.85	24.25	0.0	25.0
			1	137	23.70	24.06	23.99	0.0	25.0
			1	271	24.16	24.28	24.02	0.0	25.0
			135	0	23.36	23.48	23.70	0.5	24.5
			135	69	23.83	24.09	24.10	0.0	25.0
			135	138	23.53	23.71	23.51	0.5	24.5
			270	0	23.36	23.63	23.57	0.5	24.5
		QPSK	1	1	24.26	24.12	24.06	0.0	25.0
			1	137	23.77	23.81	23.83	0.0	25.0
			1	271	24.04	23.98	23.70	0.0	25.0
			135	0	23.02	22.95	23.02	1.0	24.0
			135	69	23.87	23.91	23.94	0.0	25.0
			135	138	22.80	22.91	22.95	1.0	24.0
			270	0	22.94	22.93	22.99	1.0	24.0
		16QAM	1	1	23.37	23.07	23.10	1.0	24.0
			1	137	22.81	22.88	22.90	1.0	24.0
			1	271	23.07	23.07	22.89	1.0	24.0
		64QAM	1	1	21.63	21.26	21.47	2.5	22.5
		256QAM	1	1	19.62	19.37	19.53	4.5	20.5
	CP-OFDM	QPSK	1	1	22.79	22.84	22.86	1.5	23.5
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	$\pi/2$ BPSK	1	1	24.29	24.16	23.93	0.0	25.0
			1	123	24.13	23.90	23.65	0.0	25.0
			1	243	24.08	24.01	23.56	0.0	25.0
			120	0	23.80	23.23	24.17	0.5	24.5
			120	63	24.20	23.93	23.82	0.0	25.0
			120	125	23.55	23.23	23.43	0.5	24.5
			243	0	23.75	23.40	23.50	0.5	24.5
		QPSK	1	1	24.62	24.06	24.24	0.0	25.0
			1	123	23.73	23.86	24.00	0.0	25.0
			1	243	24.01	24.17	23.83	0.0	25.0
			120	0	22.98	22.97	23.01	1.0	24.0
			120	63	23.94	23.94	23.98	0.0	25.0
			120	125	22.98	22.96	22.85	1.0	24.0
			243	0	22.98	23.04	23.11	1.0	24.0
		16QAM	1	1	23.39	23.06	23.21	1.0	24.0
		64QAM	1	1	21.64	21.42	21.47	2.5	22.5
		256QAM	1	1	19.69	19.35	19.34	4.5	20.5
	CP-OFDM	QPSK	1	1	22.83	22.70	22.72	1.5	23.5
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	$\pi/2$ BPSK	1	1	24.46	23.67	24.25	0.0	25.0
			1	109	23.99	23.62	23.82	0.0	25.0
			1	215	24.13	23.64	23.69	0.0	25.0
			108	0	23.71	23.55	24.38	0.5	24.5
			108	55	24.19	23.61	23.79	0.0	25.0
			108	109	23.52	23.58	23.52	0.5	24.5
			216	0	23.67	23.57	23.66	0.5	24.5
		QPSK	1	1	24.36	24.00	24.13	0.0	25.0
			1	109	23.87	23.90	23.82	0.0	25.0
			1	215	24.05	24.00	23.63	0.0	25.0
			108	0	23.07	22.95	22.98	1.0	24.0
			108	55	24.02	23.89	24.07	0.0	25.0
			108	109	22.90	22.95	22.88	1.0	24.0
			216	0	23.17	23.00	23.08	1.0	24.0
		16QAM	1	1	23.17	23.01	23.12	1.0	24.0
		64QAM	1	1	21.46	21.12	21.39	2.5	22.5
		256QAM	1	1	19.58	19.24	19.44	4.5	20.5
	CP-OFDM	QPSK	1	1	22.84	22.54	22.78	1.5	23.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					506202	518598	531000		
					2531.02 MHz	2592.99 MHz	2655.00 MHz		
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.08	23.92	24.05	0.0	25.0
			1	95	23.66	23.89	23.95	0.0	25.0
			1	188	23.78	24.14	23.79	0.0	25.0
			90	0	23.31	23.47	23.66	0.5	24.5
			90	50	22.91	24.09	24.14	0.0	25.0
			90	99	23.28	23.61	23.57	0.5	24.5
			180	0	23.29	23.49	23.64	0.5	24.5
		QPSK	1	1	24.01	23.85	23.97	0.0	25.0
			1	95	23.97	23.82	23.83	0.0	25.0
			1	188	23.90	23.86	23.65	0.0	25.0
			90	0	23.14	22.97	23.04	1.0	24.0
			90	50	24.05	24.02	23.99	0.0	25.0
			90	99	22.91	22.98	22.92	1.0	24.0
			180	0	22.99	22.92	22.95	1.0	24.0
		16QAM	1	1	23.01	22.87	23.04	1.0	24.0
		64QAM	1	1	21.41	21.20	21.34	2.5	22.5
		256QAM	1	1	19.42	19.19	19.46	4.5	20.5
	CP-OFDM	QPSK	1	1	22.62	22.54	22.67	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					505200	518598	513996		
					2526.00 MHz	2592.99 MHz	2659.98 MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.22	23.92	24.07	0.0	25.0
			1	81	23.85	23.78	23.67	0.0	25.0
			1	160	23.99	24.02	23.78	0.0	25.0
			81	0	23.61	23.32	23.49	0.5	24.5
			81	41	24.14	23.99	23.91	0.0	25.0
			81	81	23.50	23.42	23.30	0.5	24.5
			162	0	23.66	23.49	23.42	0.5	24.5
		QPSK	1	1	24.09	23.85	23.91	0.0	25.0
			1	81	23.78	23.70	23.54	0.0	25.0
			1	160	23.84	23.92	23.43	0.0	25.0
			81	0	22.93	22.77	22.85	1.0	24.0
			81	41	23.96	23.88	23.77	0.0	25.0
			81	81	22.85	22.90	22.68	1.0	24.0
			162	0	22.98	22.93	22.82	1.0	24.0
		16QAM	1	1	23.05	22.73	22.93	1.0	24.0
		64QAM	1	1	21.31	21.01	21.19	2.5	22.5
		256QAM	1	1	19.40	19.11	19.31	4.5	20.5
	CP-OFDM	QPSK	1	1	22.70	22.32	22.57	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					504204	518598	532998		
					2521.01 MHz	2592.99 MHz	2665.00 MHz		
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.44	24.16	24.20	0.0	25.0
			1	67	24.23	24.09	23.92	0.0	25.0
			1	131	24.22	24.24	24.15	0.0	25.0
			64	0	24.12	24.33	24.08	0.5	24.5
			64	35	24.15	24.30	24.13	0.0	25.0
			64	69	24.19	24.25	24.10	0.5	24.5
			128	0	24.25	24.34	24.16	0.5	24.5
		QPSK	1	1	24.28	23.98	24.03	0.0	25.0
			1	67	23.99	23.88	23.85	0.0	25.0
			1	131	24.16	24.18	23.87	0.0	25.0
			64	0	23.15	23.06	22.99	1.0	24.0
			64	35	24.23	23.98	23.89	0.0	25.0
			64	69	23.09	23.11	22.79	1.0	24.0
			128	0	23.13	23.06	22.89	1.0	24.0
		16QAM	1	1	23.25	22.95	22.99	1.0	24.0
		64QAM	1	1	21.50	21.28	21.27	2.5	22.5
		256QAM	1	1	19.58	19.32	19.37	4.5	20.5
	CP-OFDM	QPSK	1	1	22.94	22.59	22.56	1.5	23.5

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	$\pi/2$ BPSK	1	1	24.16	23.65	23.82	0.0	25.0
			1	53	24.01	23.75	23.79	0.0	25.0
			1	104	24.08	23.39	23.83	0.0	25.0
			50	0	24.12	23.57	23.50	0.5	24.5
			50	28	23.98	24.18	23.83	0.0	25.0
			50	56	24.07	23.67	23.40	0.5	24.5
			100	0	23.96	23.46	23.43	0.5	24.5
		QPSK	1	1	24.05	23.68	23.77	0.0	25.0
			1	53	23.92	23.84	23.65	0.0	25.0
			1	104	23.82	24.00	23.61	0.0	25.0
			50	0	23.07	22.84	22.72	1.0	24.0
			50	28	24.08	24.07	23.84	0.0	25.0
			50	56	22.96	22.94	22.73	1.0	24.0
			100	0	23.08	23.01	22.88	1.0	24.0
		16QAM	1	1	22.96	22.74	22.72	1.0	24.0
		64QAM	1	1	21.29	20.96	21.01	2.5	22.5
		256QAM	1	1	19.33	19.08	19.12	4.5	20.5
	CP-OFDM	QPSK	1	1	22.62	22.32	22.24	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					502200	518598	534996		
					2511.00 MHz	2592.99 MHz	2675.00 MHz		
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.43	23.95	23.97	0.0	25.0
			1	39	24.29	23.95	23.90	0.0	25.0
			1	76	24.17	24.13	23.89	0.0	25.0
			36	0	23.85	24.17	23.36	0.5	24.5
			36	21	24.32	24.15	23.94	0.0	25.0
			36	42	23.70	24.14	23.33	0.5	24.5
			75	0	23.75	24.11	23.37	0.5	24.5
		QPSK	1	1	24.19	23.87	23.83	0.0	25.0
			1	39	24.13	23.89	23.71	0.0	25.0
			1	76	24.00	24.03	23.65	0.0	25.0
			36	0	23.06	22.83	22.74	1.0	24.0
			36	21	24.11	24.03	23.72	0.0	25.0
			36	42	22.97	22.92	22.69	1.0	24.0
			75	0	23.00	22.91	22.72	1.0	24.0
		16QAM	1	1	23.17	22.83	22.65	1.0	24.0
		64QAM	1	1	21.41	21.04	20.96	2.5	22.5
		256QAM	1	1	19.48	19.23	19.17	4.5	20.5
	CP-OFDM	QPSK	1	1	22.76	22.51	22.24	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					501702	518598	534996		
					2508.51 MHz	2592.99 MHz	2675.00 MHz		
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.69	24.09	24.01	0.0	25.0
			1	32	24.13	23.51	23.36	0.0	25.0
			1	63	24.35	23.46	23.30	0.0	25.0
			32	0	24.36	23.64	23.41	0.5	24.5
			32	16	23.84	24.04	23.99	0.0	25.0
			32	33	24.36	23.55	23.40	0.5	24.5
			64	0	24.32	23.49	23.35	0.5	24.5
		QPSK	1	1	24.17	23.97	23.79	0.0	25.0
			1	32	23.02	22.81	22.68	0.0	25.0
			1	63	23.01	22.86	22.70	0.0	25.0
			32	0	22.98	22.93	22.64	1.0	24.0
			32	16	24.12	24.02	23.78	0.0	25.0
			32	33	23.00	22.91	22.67	1.0	24.0
			64	0	22.92	22.86	22.63	1.0	24.0
		16QAM	1	1	23.20	22.84	22.78	1.0	24.0
		64QAM	1	1	21.47	21.11	21.03	2.5	22.5
		256QAM	1	1	19.49	19.18	19.15	4.5	20.5
	CP-OFDM	QPSK	1	1	22.71	22.43	22.28	1.5	23.5

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	$\pi/2$ BPSK	1	1	23.61	23.57	23.64	0.0	25.0
			1	26	24.03	23.97	24.05	0.0	25.0
			1	49	24.10	24.14	24.20	0.0	25.0
			25	0	23.88	24.14	24.16	0.5	24.5
			25	13	24.39	23.58	23.67	0.0	25.0
			25	26	23.77	24.12	24.21	0.5	24.5
		QPSK	50	0	23.79	24.13	24.14	0.5	24.5
			1	1	24.02	23.76	23.65	0.0	25.0
			1	26	22.92	22.82	22.61	0.0	25.0
			1	49	23.03	22.92	22.67	0.0	25.0
			25	0	22.90	22.78	22.55	1.0	24.0
			25	13	23.99	23.87	23.66	0.0	25.0
			25	26	22.92	22.81	22.55	1.0	24.0
			50	0	22.81	22.67	22.43	1.0	24.0
		16QAM	1	1	22.95	22.69	22.61	1.0	24.0
		64QAM	1	1	21.23	20.95	20.71	2.5	22.5
		256QAM	1	1	19.26	19.06	18.92	4.5	20.5
	CP-OFDM	QPSK	1	1	22.47	22.21	22.07	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					500700	518598	536496		
					2503.50 MHz	2592.99 MHz	2682.48 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.27	23.83	23.70	0.0	25.0
			1	19	24.16	23.92	23.73	0.0	25.0
			1	36	24.16	24.00	23.66	0.0	25.0
			18	0	23.73	23.39	23.18	0.5	24.5
			18	10	24.20	23.99	23.35	0.0	25.0
			18	20	23.58	23.45	24.12	0.5	24.5
		QPSK	36	0	23.68	23.41	24.16	0.5	24.5
			1	1	24.01	23.78	23.56	0.0	25.0
			1	19	23.95	23.83	23.60	0.0	25.0
			1	36	23.98	23.79	23.77	0.0	25.0
			18	0	22.99	22.75	22.59	1.0	24.0
			18	10	24.07	23.95	23.71	0.0	25.0
			18	20	22.93	22.77	22.47	1.0	24.0
			36	0	22.87	22.80	22.58	1.0	24.0
		16QAM	1	1	22.91	22.70	22.56	1.0	24.0
		64QAM	1	1	21.23	21.05	20.86	2.5	22.5
		256QAM	1	1	19.34	19.14	18.97	4.5	20.5
	CP-OFDM	QPSK	1	1	22.51	22.32	22.19	1.5	23.5
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	$\pi/2$ BPSK	1	1	24.28	23.94	23.88	0.0	25.0
			1	12	24.22	23.89	23.77	0.0	25.0
			1	22	24.27	23.93	23.83	0.0	25.0
			12	0	23.69	23.38	23.28	0.5	24.5
			12	6	24.24	23.95	23.86	0.0	25.0
			12	12	23.70	23.33	23.24	0.5	24.5
		QPSK	24	0	23.69	23.40	23.25	0.5	24.5
			1	1	23.95	23.54	23.60	0.0	25.0
			1	12	23.90	23.66	23.49	0.0	25.0
			1	22	23.81	23.69	23.58	0.0	25.0
			12	0	22.77	22.58	22.49	1.0	24.0
			12	6	23.81	23.67	23.58	0.0	25.0
			12	12	22.77	22.60	22.51	1.0	24.0
			24	0	22.74	22.64	22.56	1.0	24.0
		16QAM	1	1	22.78	22.73	22.52	1.0	24.0
		64QAM	1	1	21.01	20.91	20.85	2.5	22.5
		256QAM	1	1	19.14	19.00	18.93	4.5	20.5
	CP-OFDM	QPSK	1	1	22.38	22.16	22.11	1.5	23.5

NR Band n41 (ANT B)

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	$\pi/2$ BPSK	1	1	24.14	24.14	24.39	0.0	25.0
			1	137	23.89	24.12	24.18	0.0	25.0
			1	271	24.25	24.34	24.15	0.0	25.0
			135	0	23.45	23.60	23.81	0.5	24.5
			135	69	23.96	24.19	24.26	0.0	25.0
			135	138	23.70	23.72	23.68	0.5	24.5
			270	0	23.55	23.75	23.81	0.5	24.5
		QPSK	1	1	24.13	24.08	24.36	0.0	25.0
			1	137	23.88	24.11	24.22	0.0	25.0
			1	271	24.31	24.35	24.14	0.0	25.0
			135	0	22.97	23.14	23.39	1.0	24.0
			135	69	24.03	24.40	24.21	0.0	25.0
			135	138	23.07	23.26	23.27	1.0	24.0
			270	0	23.01	23.22	23.24	1.0	24.0
		16QAM	1	1	23.17	23.27	23.59	1.0	24.0
			1	137	23.05	23.15	23.24	1.0	24.0
			1	271	23.47	23.43	23.40	1.0	24.0
		64QAM	1	1	21.47	21.38	21.73	2.5	22.5
		256QAM	1	1	19.53	19.55	19.76	4.5	20.5
	CP-OFDM	QPSK	1	1	22.65	22.66	22.97	1.5	23.5
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	$\pi/2$ BPSK	1	1	24.28	24.13	24.53	0.0	25.0
			1	123	23.92	24.12	24.25	0.0	25.0
			1	243	24.33	24.33	24.23	0.0	25.0
			120	0	23.51	24.29	23.87	0.5	24.5
			120	63	24.04	24.29	24.35	0.0	25.0
			120	125	23.56	24.27	23.64	0.5	24.5
			243	0	23.59	24.20	23.85	0.5	24.5
		QPSK	1	1	24.27	24.22	24.57	0.0	25.0
			1	123	23.91	24.19	24.29	0.0	25.0
			1	243	24.32	24.42	24.24	0.0	25.0
			120	0	23.01	23.09	23.35	1.0	24.0
			120	63	24.05	24.34	24.35	0.0	25.0
			120	125	23.07	23.25	23.18	1.0	24.0
			243	0	23.05	23.28	23.41	1.0	24.0
		16QAM	1	1	23.15	23.28	23.53	1.0	24.0
		64QAM	1	1	21.32	21.42	21.82	2.5	22.5
		256QAM	1	1	19.61	19.68	19.80	4.5	20.5
	CP-OFDM	QPSK	1	1	22.53	22.81	23.08	1.5	23.5
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	$\pi/2$ BPSK	1	1	24.08	24.18	24.43	0.0	25.0
			1	109	23.87	24.09	24.15	0.0	25.0
			1	215	23.99	24.19	24.20	0.0	25.0
			108	0	23.41	24.10	23.89	0.5	24.5
			108	55	24.08	24.19	24.36	0.0	25.0
			108	109	23.56	24.18	23.61	0.5	24.5
			216	0	23.56	24.18	23.94	0.5	24.5
		QPSK	1	1	24.15	24.31	24.54	0.0	25.0
			1	109	23.87	24.10	24.09	0.0	25.0
			1	215	24.24	24.40	24.17	0.0	25.0
			108	0	23.07	23.24	23.37	1.0	24.0
			108	55	24.24	24.39	24.34	0.0	25.0
			108	109	23.05	23.38	23.22	1.0	24.0
			216	0	23.11	23.35	23.43	1.0	24.0
		16QAM	1	1	23.07	23.05	23.44	1.0	24.0
		64QAM	1	1	21.33	21.43	21.76	2.5	22.5
		256QAM	1	1	19.49	19.47	19.78	4.5	20.5
	CP-OFDM	QPSK	1	1	22.66	22.66	22.99	1.5	23.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					506202	518598	531000		
					2531.02 MHz	2592.99 MHz	2655.00 MHz		
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.85	23.97	24.31	0.0	25.0
			1	95	23.83	24.16	24.01	0.0	25.0
			1	188	24.03	24.24	24.08	0.0	25.0
			90	0	23.35	23.63	23.75	0.5	24.5
			90	50	24.04	24.28	24.25	0.0	25.0
			90	99	23.51	23.84	23.63	0.5	24.5
		QPSK	180	0	23.38	23.75	23.64	0.5	24.5
			1	1	23.89	24.21	24.33	0.0	25.0
			1	95	23.82	24.20	24.12	0.0	25.0
			1	188	24.07	24.31	24.08	0.0	25.0
			90	0	22.90	23.26	23.37	1.0	24.0
			90	50	24.00	24.32	24.29	0.0	25.0
			90	99	23.07	23.35	23.20	1.0	24.0
			180	0	23.00	23.35	23.25	1.0	24.0
		16QAM	1	1	22.89	23.15	23.30	1.0	24.0
		64QAM	1	1	21.24	21.34	21.74	2.5	22.5
		256QAM	1	1	19.22	19.59	19.88	4.5	20.5
	CP-OFDM	QPSK	1	1	22.49	22.64	23.09	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					505200	518598	513996		
					2526.00 MHz	2592.99 MHz	2659.98 MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.83	24.12	24.23	0.0	25.0
			1	81	23.74	23.97	23.99	0.0	25.0
			1	160	23.91	24.30	23.96	0.0	25.0
			81	0	23.27	23.51	23.62	0.5	24.5
			81	41	23.93	24.17	24.18	0.0	25.0
			81	81	23.33	23.74	23.59	0.5	24.5
		QPSK	162	0	23.42	23.71	23.67	0.5	24.5
			1	1	23.74	23.87	24.26	0.0	25.0
			1	81	23.66	23.79	23.95	0.0	25.0
			1	160	23.77	24.11	23.91	0.0	25.0
			81	0	22.81	22.93	23.12	1.0	24.0
			81	41	23.87	24.10	24.07	0.0	25.0
			81	81	22.87	23.03	23.03	1.0	24.0
			162	0	22.89	23.11	23.22	1.0	24.0
		16QAM	1	1	22.65	22.83	23.27	1.0	24.0
		64QAM	1	1	21.03	21.19	21.54	2.5	22.5
		256QAM	1	1	19.07	19.19	19.63	4.5	20.5
	CP-OFDM	QPSK	1	1	22.13	22.59	22.92	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					504204	518598	532998		
					2521.01 MHz	2592.99 MHz	2665.00 MHz		
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.12	24.18	24.43	0.0	25.0
			1	67	23.87	24.22	24.18	0.0	25.0
			1	131	24.27	24.35	24.26	0.0	25.0
			64	0	24.13	24.22	23.82	0.5	24.5
			64	35	24.13	24.22	24.28	0.0	25.0
			64	69	24.23	24.23	23.63	0.5	24.5
		QPSK	128	0	24.14	24.24	23.76	0.5	24.5
			1	1	24.01	24.28	24.37	0.0	25.0
			1	67	23.88	24.13	24.01	0.0	25.0
			1	131	24.03	24.47	24.08	0.0	25.0
			64	0	22.97	23.22	23.26	1.0	24.0
			64	35	24.04	24.42	24.22	0.0	25.0
			64	69	23.01	23.31	23.13	1.0	24.0
			128	0	22.99	23.31	23.21	1.0	24.0
		16QAM	1	1	22.91	23.16	23.25	1.0	24.0
		64QAM	1	1	21.16	21.25	21.58	2.5	22.5
		256QAM	1	1	19.24	19.39	19.74	4.5	20.5
	CP-OFDM	QPSK	1	1	22.54	22.75	22.91	1.5	23.5

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	$\pi/2$ BPSK	1	1	23.94	24.12	24.17	0.0	25.0
			1	53	23.81	24.10	23.98	0.0	25.0
			1	104	23.89	24.23	23.96	0.0	25.0
			50	0	23.35	23.73	23.62	0.5	24.5
			50	28	23.94	24.27	24.19	0.0	25.0
			50	56	23.41	23.78	23.50	0.5	24.5
			100	0	23.50	23.76	23.64	0.5	24.5
		QPSK	1	1	23.81	24.03	24.02	0.0	25.0
			1	53	23.61	24.08	24.00	0.0	25.0
			1	104	23.84	24.26	23.82	0.0	25.0
			50	0	22.88	23.16	22.99	1.0	24.0
			50	28	23.91	24.30	24.07	0.0	25.0
			50	56	22.82	23.18	22.94	1.0	24.0
			100	0	22.83	23.21	23.09	1.0	24.0
		16QAM	1	1	22.73	22.96	23.10	1.0	24.0
		64QAM	1	1	20.97	21.15	21.21	2.5	22.5
		256QAM	1	1	19.04	19.46	19.34	4.5	20.5
	CP-OFDM	QPSK	1	1	22.21	22.44	22.51	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					502200	518598	534996		
					2511.00 MHz	2592.99 MHz	2675.00 MHz		
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.11	24.20	24.23	0.0	25.0
			1	39	23.99	24.23	23.99	0.0	25.0
			1	76	23.89	24.26	24.06	0.0	25.0
			36	0	23.47	24.33	23.56	0.5	24.5
			36	21	24.02	24.23	24.13	0.0	25.0
			36	42	23.41	24.33	23.57	0.5	24.5
			75	0	23.35	24.23	23.49	0.5	24.5
		QPSK	1	1	23.96	24.14	24.02	0.0	25.0
			1	39	23.82	24.16	24.00	0.0	25.0
			1	76	23.95	24.26	23.96	0.0	25.0
			36	0	22.88	23.06	22.99	1.0	24.0
			36	21	23.87	24.28	24.16	0.0	25.0
			36	42	22.77	23.14	22.97	1.0	24.0
			75	0	22.87	23.15	22.91	1.0	24.0
		16QAM	1	1	22.81	23.10	23.12	1.0	24.0
		64QAM	1	1	21.06	21.28	21.30	2.5	22.5
		256QAM	1	1	19.13	19.48	19.35	4.5	20.5
	CP-OFDM	QPSK	1	1	22.31	22.50	22.58	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					501702	518598	534996		
					2508.51 MHz	2592.99 MHz	2675.00 MHz		
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.07	24.26	24.19	0.0	25.0
			1	32	23.31	23.66	23.47	0.0	25.0
			1	63	23.45	23.68	23.55	0.0	25.0
			32	0	23.36	23.69	23.48	0.5	24.5
			32	16	24.07	24.31	24.04	0.0	25.0
			32	33	23.34	23.78	23.59	0.5	24.5
			64	0	23.32	23.57	23.56	0.5	24.5
		QPSK	1	1	23.93	24.28	24.09	0.0	25.0
			1	32	22.81	23.15	22.85	0.0	25.0
			1	63	22.78	23.20	22.95	0.0	25.0
			32	0	22.73	23.12	22.94	1.0	24.0
			32	16	23.85	24.23	24.03	0.0	25.0
			32	33	22.71	23.09	23.03	1.0	24.0
			64	0	22.80	23.24	22.90	1.0	24.0
		16QAM	1	1	22.85	23.08	23.11	1.0	24.0
		64QAM	1	1	21.12	21.33	21.33	2.5	22.5
		256QAM	1	1	19.29	19.52	19.48	4.5	20.5
	CP-OFDM	QPSK	1	1	22.38	22.55	22.57	1.5	23.5

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	$\pi/2$ BPSK	1	1	23.85	24.10	23.91	0.0	25.0
			1	26	23.30	23.47	23.39	0.0	25.0
			1	49	23.24	23.70	23.64	0.0	25.0
			25	0	23.29	23.68	23.50	0.5	24.5
			25	13	23.94	24.27	24.09	0.0	25.0
			25	26	23.30	23.69	23.48	0.5	24.5
		QPSK	50	0	23.35	23.71	23.66	0.5	24.5
			1	1	23.74	24.00	23.81	0.0	25.0
			1	26	22.71	23.14	22.97	0.0	25.0
			1	49	22.82	23.16	23.03	0.0	25.0
			25	0	22.75	23.07	22.87	1.0	24.0
			25	13	23.75	24.09	24.02	0.0	25.0
			25	26	22.75	23.05	22.86	1.0	24.0
			50	0	22.64	23.03	22.71	1.0	24.0
		16QAM	1	1	22.68	23.10	22.86	1.0	24.0
		64QAM	1	1	20.93	21.19	21.16	2.5	22.5
		256QAM	1	1	19.09	19.30	19.19	4.5	20.5
	CP-OFDM	QPSK	1	1	22.32	22.53	22.45	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					500700	518598	536496		
					2503.50 MHz	2592.99 MHz	2682.48 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.83	24.12	24.07	0.0	25.0
			1	19	23.83	24.20	23.99	0.0	25.0
			1	36	23.90	24.27	24.01	0.0	25.0
			18	0	23.76	23.63	23.45	0.5	24.5
			18	10	23.85	24.24	24.15	0.0	25.0
			18	20	23.86	23.73	23.45	0.5	24.5
		QPSK	36	0	23.84	23.65	23.50	0.5	24.5
			1	1	23.82	24.03	23.91	0.0	25.0
			1	19	23.78	24.04	23.95	0.0	25.0
			1	36	23.88	24.15	23.85	0.0	25.0
			18	0	22.78	23.04	22.86	1.0	24.0
			18	10	23.93	24.22	24.05	0.0	25.0
			18	20	22.68	23.05	22.87	1.0	24.0
			36	0	22.71	23.04	22.93	1.0	24.0
		16QAM	1	1	22.70	23.09	22.92	1.0	24.0
		64QAM	1	1	20.94	21.34	21.16	2.5	22.5
		256QAM	1	1	19.21	19.54	19.20	4.5	20.5
	CP-OFDM	QPSK	1	1	22.42	22.56	22.44	1.5	23.5
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	$\pi/2$ BPSK	1	1	23.98	24.21	24.09	0.0	25.0
			1	12	23.77	24.31	24.04	0.0	25.0
			1	22	23.71	24.36	24.08	0.0	25.0
			12	0	23.79	23.61	23.52	0.5	24.5
			12	6	23.79	24.30	24.14	0.0	25.0
			12	12	23.80	23.79	23.48	0.5	24.5
		QPSK	24	0	23.79	23.73	23.51	0.5	24.5
			1	1	23.88	23.95	24.03	0.0	25.0
			1	12	23.68	24.05	24.00	0.0	25.0
			1	22	23.79	24.02	24.02	0.0	25.0
			12	0	22.81	22.94	22.97	1.0	24.0
			12	6	23.84	23.99	24.04	0.0	25.0
			12	12	22.81	23.01	22.92	1.0	24.0
			24	0	22.70	22.95	22.97	1.0	24.0
		16QAM	1	1	22.85	23.10	23.00	1.0	24.0
		64QAM	1	1	21.01	21.27	21.18	2.5	22.5
		256QAM	1	1	19.26	19.45	19.33	4.5	20.5
	CP-OFDM	QPSK	1	1	22.27	22.61	22.43	1.5	23.5

NR Band n66 (ANT B)

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	$\pi/2$ BPSK	1	1	24.31	24.29	24.36	0.0	25.0
			1	108	24.30	24.41	24.06	0.0	25.0
			1	214	24.34	24.19	24.24	0.0	25.0
			108	0	23.42	23.33	23.25	1.0	24.0
			108	54	24.46	24.39	24.26	0.0	25.0
			108	108	23.35	23.21	23.13	1.0	24.0
		QPSK	216	0	23.45	23.39	23.31	1.0	24.0
			1	1	24.21	24.31	24.30	0.0	25.0
			1	108	24.26	24.24	24.10	0.0	25.0
			1	214	24.15	24.09	24.20	0.0	25.0
			108	0	23.31	23.33	23.25	1.0	24.0
			108	54	24.39	24.41	24.25	0.0	25.0
			108	108	23.27	23.24	23.18	1.0	24.0
			216	0	23.39	23.43	23.30	1.0	24.0
		16QAM	1	1	23.08	23.12	23.27	1.0	24.0
			1	108	23.24	23.30	23.18	1.0	24.0
			1	214	23.17	23.16	23.02	1.0	24.0
		64QAM	1	1	21.81	21.83	21.90	2.5	22.5
		256QAM	1	1	19.33	19.31	19.22	4.5	20.5
	CP-OFDM	QPSK	1	1	22.77	22.74	22.87	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					345500	349000	352500		
					1727.50 MHz	1745.00 MHz	1762.50 MHz		
35 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.35	24.32	24.43	0.0	25.0
			1	93	24.36	24.42	24.29	0.0	25.0
			1	186	24.20	24.28	24.25	0.0	25.0
			90	0	23.39	23.36	23.37	1.0	24.0
			90	49	24.45	24.38	24.42	0.0	25.0
			90	98	23.31	23.30	23.27	1.0	24.0
		QPSK	180	0	23.47	23.34	23.44	1.0	24.0
			1	1	24.17	24.17	24.28	0.0	25.0
			1	93	24.36	24.46	24.37	0.0	25.0
			1	186	24.19	24.24	24.30	0.0	25.0
			90	0	23.36	23.42	23.45	1.0	24.0
			90	49	24.36	24.44	24.48	0.0	25.0
			90	98	23.34	23.28	23.27	1.0	24.0
			180	0	23.40	23.31	23.52	1.0	24.0
		16QAM	1	1	23.20	23.34	23.20	1.0	24.0
			1	93	23.20	23.31	23.36	1.0	24.0
			1	186	23.23	23.20	23.20	1.0	24.0
		64QAM	1	1	21.94	21.99	21.87	2.5	22.5
		256QAM	1	1	19.26	19.32	19.30	4.5	20.5
	CP-OFDM	QPSK	1	1	22.69	22.90	22.81	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	$\pi/2$ BPSK	1	1	23.34	24.47	24.17	0.0	25.0
			1	80	24.37	24.45	24.29	0.0	25.0
			1	158	24.37	24.45	24.32	0.0	25.0
			80	0	23.36	23.37	23.35	1.0	24.0
			80	40	24.45	24.39	24.47	0.0	25.0
			80	80	23.38	23.32	23.42	1.0	24.0
		QPSK	160	0	23.42	23.36	23.48	1.0	24.0
			1	1	24.23	24.54	24.18	0.0	25.0
			1	80	24.38	24.42	24.33	0.0	25.0
			1	158	24.32	24.19	24.34	0.0	25.0
			80	0	23.45	23.24	23.35	1.0	24.0
			80	40	24.48	24.44	24.40	0.0	25.0
			80	80	23.43	23.47	23.35	1.0	24.0
			160	0	23.48	23.52	23.40	1.0	24.0
		16QAM	1	1	23.25	23.33	23.10	1.0	24.0
			1	80	23.35	23.24	23.27	1.0	24.0
			1	158	23.30	23.23	23.23	1.0	24.0
		64QAM	1	1	22.02	22.08	21.81	2.5	22.5
		256QAM	1	1	19.31	19.40	19.33	4.5	20.5
	CP-OFDM	QPSK	1	1	22.80	23.12	22.75	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	24.08	24.13	24.27	0.0	25.0
			1	67	23.90	24.08	24.08	0.0	25.0
			1	131	24.27	24.13	24.01	0.0	25.0
			64	0	23.05	23.08	22.96	1.0	24.0
			64	35	23.85	24.13	24.04	0.0	25.0
			64	69	23.08	23.05	22.93	1.0	24.0
			128	0	22.92	23.15	22.94	1.0	24.0
		QPSK	1	1	24.20	24.27	24.27	0.0	25.0
			1	67	23.90	24.21	24.08	0.0	25.0
			1	131	24.16	24.18	24.04	0.0	25.0
			64	0	22.97	23.15	23.01	1.0	24.0
			64	35	23.81	24.22	24.06	0.0	25.0
			64	69	23.10	23.10	22.96	1.0	24.0
			128	0	22.92	23.18	23.00	1.0	24.0
		16QAM	1	1	23.05	23.17	23.00	1.0	24.0
			1	67	22.78	23.10	22.90	1.0	24.0
			1	131	23.01	23.03	22.83	1.0	24.0
		64QAM	1	1	21.83	21.99	21.72	2.5	22.5
		256QAM	1	1	19.21	19.23	19.06	4.5	20.5
	CP-OFDM	QPSK	1	1	22.75	23.00	22.78	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	24.17	24.07	24.37	0.0	25.0
			1	53	24.42	24.12	24.44	0.0	25.0
			1	104	24.31	24.07	24.24	0.0	25.0
			50	0	23.35	23.03	23.31	1.0	24.0
			50	28	24.37	24.08	24.32	0.0	25.0
			50	56	23.09	22.99	23.13	1.0	24.0
			100	0	23.33	23.14	23.34	1.0	24.0
		QPSK	1	1	24.05	24.15	24.16	0.0	25.0
			1	53	24.42	24.12	24.36	0.0	25.0
			1	104	24.33	24.06	24.30	0.0	25.0
			50	0	23.38	23.07	23.36	1.0	24.0
			50	28	24.40	24.11	24.38	0.0	25.0
			50	56	23.11	23.02	23.15	1.0	24.0
			100	0	23.36	23.16	23.40	1.0	24.0
		16QAM	1	1	23.04	23.01	23.27	1.0	24.0
			1	53	23.34	23.02	23.27	1.0	24.0
			1	104	23.30	22.98	23.31	1.0	24.0
		64QAM	1	1	21.82	21.78	22.04	2.5	22.5
		256QAM	1	1	19.32	19.21	19.34	4.5	20.5
	CP-OFDM	QPSK	1	1	22.70	22.81	22.85	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	24.37	24.47	24.20	0.0	25.0
			1	40	24.01	24.29	24.12	0.0	25.0
			1	77	24.12	24.35	24.11	0.0	25.0
			36	0	22.95	23.19	23.05	1.0	24.0
			36	22	23.91	24.25	24.23	0.0	25.0
			36	43	23.07	23.20	23.00	1.0	24.0
			75	0	23.08	23.21	23.02	1.0	24.0
		QPSK	1	1	24.37	24.37	24.25	0.0	25.0
			1	40	23.93	24.27	24.14	0.0	25.0
			1	77	24.23	24.24	24.05	0.0	25.0
			36	0	23.09	23.19	23.03	1.0	24.0
			36	22	23.86	24.24	24.23	0.0	25.0
			36	43	23.02	23.19	23.01	1.0	24.0
			75	0	23.02	23.22	23.01	1.0	24.0
		16QAM	1	1	23.22	23.17	23.09	1.0	24.0
			1	40	22.94	23.08	22.94	1.0	24.0
			1	77	23.19	23.10	22.89	1.0	24.0
		64QAM	1	1	21.88	21.90	21.74	2.5	22.5
		256QAM	1	1	19.36	19.29	19.05	4.5	20.5
	CP-OFDM	QPSK	1	1	22.84	22.97	22.80	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	24.16	24.30	24.05	0.0	25.0
			1	26	23.96	24.32	23.96	0.0	25.0
			1	50	24.02	24.32	23.93	0.0	25.0
			25	0	22.99	23.37	22.91	1.0	24.0
			25	14	23.95	24.46	23.98	0.0	25.0
			25	27	22.96	23.01	22.92	1.0	24.0
			50	0	22.88	23.39	22.90	1.0	24.0
		QPSK	1	1	24.07	24.23	24.00	0.0	25.0
			1	26	23.98	24.34	24.03	0.0	25.0
			1	50	23.91	24.33	23.94	0.0	25.0
			25	0	22.91	23.30	22.96	1.0	24.0
			25	14	23.91	24.43	23.99	0.0	25.0
			25	27	22.89	22.91	22.94	1.0	24.0
			50	0	22.81	23.30	22.94	1.0	24.0
		16QAM	1	1	22.91	23.17	22.88	1.0	24.0
			1	26	22.83	23.28	22.85	1.0	24.0
			1	50	22.78	23.29	22.75	1.0	24.0
		64QAM	1	1	21.70	21.84	21.56	2.5	22.5
		256QAM	1	1	19.19	19.26	18.90	4.5	20.5
	CP-OFDM	QPSK	1	1	22.66	22.79	22.49	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	$\pi/2$ BPSK	1	1	24.35	24.30	24.08	0.0	25.0
			1	13	24.47	24.39	24.21	0.0	25.0
			1	23	24.33	24.23	24.07	0.0	25.0
			12	0	23.23	23.25	23.31	1.0	24.0
			12	7	24.33	24.35	23.04	0.0	25.0
			12	13	23.18	23.23	23.07	1.0	24.0
			25	0	23.19	23.28	23.08	1.0	24.0
		QPSK	1	1	24.22	24.27	24.08	0.0	25.0
			1	13	24.13	24.38	24.22	0.0	25.0
			1	23	24.39	24.24	24.07	0.0	25.0
			12	0	23.11	23.29	23.12	1.0	24.0
			12	7	24.22	24.34	24.17	0.0	25.0
			12	13	23.22	23.29	23.07	1.0	24.0
			25	0	23.09	23.26	23.12	1.0	24.0
		16QAM	1	1	23.18	23.19	23.03	1.0	24.0
			1	13	23.18	23.21	23.03	1.0	24.0
			1	23	23.17	23.23	22.99	1.0	24.0
		64QAM	1	1	21.84	21.89	21.75	2.5	22.5
		256QAM	1	1	19.29	19.26	19.08	4.5	20.5
	CP-OFDM	QPSK	1	1	22.81	22.95	22.68	1.5	23.5

NR Band n66 (ANT E)

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	$\pi/2$ BPSK	1	1	24.16	24.12	24.02	0.0	24.5
			1	108	23.97	23.99	23.92	0.0	24.5
			1	214	24.01	24.06	23.95	0.0	24.5
			108	0	23.13	23.14	23.08	0.5	24.0
			108	54	24.18	24.19	24.14	0.0	24.5
			108	108	23.00	23.08	23.05	0.5	24.0
			216	0	23.15	23.26	23.17	0.5	24.0
		QPSK	1	1	24.00	24.22	23.99	0.0	24.5
			1	108	24.01	24.00	23.92	0.0	24.5
			1	214	24.08	24.06	23.96	0.0	24.5
			108	0	23.12	23.08	23.13	1.0	23.5
			108	54	24.17	24.23	24.18	0.0	24.5
			108	108	23.01	23.13	23.10	1.0	23.5
			216	0	23.17	23.22	23.13	1.0	23.5
		16QAM	1	1	23.18	23.18	23.11	1.0	23.5
			1	108	23.20	23.21	23.13	1.0	23.5
			1	214	23.11	23.20	23.10	1.0	23.5
		64QAM	1	1	21.52	21.57	21.49	2.5	22.0
		256QAM	1	1	19.16	19.23	19.13	4.5	20.0
	CP-OFDM	QPSK	1	1	22.77	22.78	22.72	1.5	23.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					345500	349000	352500		
					1727.50 MHz	1745.00 MHz	1762.50 MHz		
35 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.00	24.05	23.89	0.0	24.5
			1	93	24.10	24.12	24.01	0.0	24.5
			1	186	23.92	23.95	23.90	0.0	24.5
			90	0	23.19	23.07	23.01	0.5	24.0
			90	49	24.18	24.22	24.11	0.0	24.5
			90	98	23.10	23.07	22.96	0.5	24.0
			180	0	23.07	23.11	23.04	0.5	24.0
		QPSK	1	1	23.97	24.02	23.95	0.0	24.5
			1	93	24.22	24.12	24.01	0.0	24.5
			1	186	23.89	23.96	23.91	0.0	24.5
			90	0	23.17	23.08	23.00	1.0	23.5
			90	49	24.17	24.24	24.16	0.0	24.5
			90	98	23.02	23.09	23.02	1.0	23.5
			180	0	23.08	23.14	23.09	1.0	23.5
		16QAM	1	1	23.16	23.20	22.99	1.0	23.5
			1	93	23.17	23.15	23.12	1.0	23.5
			1	186	23.11	23.18	23.07	1.0	23.5
		64QAM	1	1	21.50	21.59	21.37	2.5	22.0
		256QAM	1	1	19.22	19.28	19.15	4.5	20.0
	CP-OFDM	QPSK	1	1	22.74	22.72	22.66	1.5	23.0
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	$\pi/2$ BPSK	1	1	24.18	24.22	24.01	0.0	24.5
			1	80	24.17	24.15	24.10	0.0	24.5
			1	158	24.00	24.09	24.03	0.0	24.5
			80	0	23.20	23.10	23.15	0.5	24.0
			80	40	24.31	24.26	24.26	0.0	24.5
			80	80	23.16	23.14	23.09	0.5	24.0
			160	0	23.16	23.16	23.14	0.5	24.0
		QPSK	1	1	24.06	24.25	24.06	0.0	24.5
			1	80	24.15	24.15	24.09	0.0	24.5
			1	158	24.10	24.10	24.08	0.0	24.5
			80	0	23.22	23.20	23.10	1.0	23.5
			80	40	24.24	24.21	24.22	0.0	24.5
			80	80	23.21	23.09	23.04	1.0	23.5
			160	0	23.21	23.21	23.10	1.0	23.5
		16QAM	1	1	23.26	23.29	23.09	1.0	23.5
			1	80	23.21	23.10	23.04	1.0	23.5
			1	158	23.17	23.25	23.17	1.0	23.5
		64QAM	1	1	21.57	21.58	21.50	2.5	22.0
		256QAM	1	1	19.37	19.34	19.26	4.5	20.0
	CP-OFDM	QPSK	1	1	22.83	22.82	22.76	1.5	23.0

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	24.18	24.20	24.12	0.0	24.5
			1	67	24.08	24.12	23.98	0.0	24.5
			1	131	24.09	24.10	24.01	0.0	24.5
			64	0	23.12	23.13	23.11	0.5	24.0
			64	35	24.16	24.23	24.11	0.0	24.5
			64	69	23.08	23.08	23.08	0.5	24.0
			128	0	23.06	23.14	23.10	0.5	24.0
		QPSK	1	1	24.16	24.15	24.11	0.0	24.5
			1	67	24.08	24.05	24.14	0.0	24.5
			1	131	24.01	24.12	24.02	0.0	24.5
			64	0	23.14	23.16	23.15	1.0	23.5
			64	35	24.21	24.26	24.08	0.0	24.5
			64	69	23.13	23.12	23.05	1.0	23.5
			128	0	23.11	23.19	22.98	1.0	23.5
		16QAM	1	1	23.25	23.19	23.16	1.0	23.5
			1	67	23.13	23.10	23.12	1.0	23.5
			1	131	23.07	23.18	23.09	1.0	23.5
		64QAM	1	1	21.59	21.60	21.59	2.5	22.0
		256QAM	1	1	19.34	19.28	19.31	4.5	20.0
	CP-OFDM	QPSK	1	1	22.83	22.83	22.66	1.5	23.0
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	23.85	24.07	23.93	0.0	24.5
			1	53	23.97	23.98	23.87	0.0	24.5
			1	104	24.01	23.96	23.91	0.0	24.5
			50	0	22.99	23.03	23.02	0.5	24.0
			50	28	24.10	24.18	23.99	0.0	24.5
			50	56	23.07	23.09	22.99	0.5	24.0
			100	0	23.11	23.20	23.08	0.5	24.0
		QPSK	1	1	23.88	23.94	23.90	0.0	24.5
			1	53	23.95	23.99	23.89	0.0	24.5
			1	104	24.01	23.92	23.86	0.0	24.5
			50	0	23.02	23.06	23.02	1.0	23.5
			50	28	24.06	24.13	24.03	0.0	24.5
			50	56	23.04	22.95	22.95	1.0	23.5
			100	0	23.16	23.17	23.04	1.0	23.5
		16QAM	1	1	22.94	23.07	23.03	1.0	23.5
			1	53	23.08	23.13	23.00	1.0	23.5
			1	104	23.09	23.10	22.99	1.0	23.5
		64QAM	1	1	21.32	21.45	21.37	2.5	22.0
		256QAM	1	1	19.04	19.14	19.02	4.5	20.0
	CP-OFDM	QPSK	1	1	22.51	22.60	22.55	1.5	23.0
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	24.11	24.08	24.03	0.0	24.5
			1	40	23.96	24.05	23.85	0.0	24.5
			1	77	24.02	24.00	23.89	0.0	24.5
			36	0	22.97	23.04	23.04	0.5	24.0
			36	22	24.21	24.22	24.12	0.0	24.5
			36	43	23.09	23.11	22.98	0.5	24.0
			75	0	23.06	23.08	22.90	0.5	24.0
		QPSK	1	1	23.97	24.12	24.02	0.0	24.5
			1	40	23.95	24.04	23.93	0.0	24.5
			1	77	24.02	24.02	23.90	0.0	24.5
			36	0	23.00	23.07	22.97	1.0	23.5
			36	22	24.16	24.25	24.06	0.0	24.5
			36	43	23.04	23.15	22.98	1.0	23.5
			75	0	23.02	23.12	22.96	1.0	23.5
		16QAM	1	1	23.11	23.17	23.14	1.0	23.5
			1	40	23.08	23.11	22.98	1.0	23.5
			1	77	23.11	23.07	23.04	1.0	23.5
		64QAM	1	1	21.42	21.55	21.47	2.5	22.0
		256QAM	1	1	19.15	19.25	19.16	4.5	20.0
	CP-OFDM	QPSK	1	1	22.67	22.77	22.71	1.5	23.0

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	24.23	24.22	24.02	0.0	24.5
			1	26	24.16	24.14	24.06	0.0	24.5
			1	50	24.17	24.25	23.89	0.0	24.5
			25	0	23.30	23.18	23.08	0.5	24.0
			25	14	24.34	24.32	24.18	0.0	24.5
			25	27	23.32	23.30	23.03	0.5	24.0
			50	0	23.31	23.19	23.14	0.5	24.0
		QPSK	1	1	24.26	24.18	24.01	0.0	24.5
			1	26	24.25	24.15	24.06	0.0	24.5
			1	50	24.35	24.11	23.95	0.0	24.5
			25	0	23.33	23.24	22.98	1.0	23.5
			25	14	24.40	24.36	24.09	0.0	24.5
			25	27	23.33	23.20	23.03	1.0	23.5
			50	0	23.30	23.25	23.01	1.0	23.5
		16QAM	1	1	23.35	23.31	23.13	1.0	23.5
			1	26	23.37	23.39	23.04	1.0	23.5
			1	50	23.46	23.27	23.07	1.0	23.5
		64QAM	1	1	21.64	21.61	21.43	2.5	22.0
		256QAM	1	1	19.37	19.30	19.20	4.5	20.0
	CP-OFDM	QPSK	1	1	22.88	22.76	22.73	1.5	23.0
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	$\pi/2$ BPSK	1	1	24.15	24.11	24.03	0.0	24.5
			1	13	24.08	24.13	23.99	0.0	24.5
			1	23	24.13	24.15	23.98	0.0	24.5
			12	0	23.25	23.16	23.04	0.5	24.0
			12	7	24.14	24.12	24.28	0.0	24.5
			12	13	23.12	23.11	23.15	0.5	24.0
			25	0	23.22	23.18	23.15	0.5	24.0
		QPSK	1	1	24.18	24.17	24.05	0.0	24.5
			1	13	24.13	24.05	24.33	0.0	24.5
			1	23	24.11	24.08	24.06	0.0	24.5
			12	0	23.15	23.14	22.99	1.0	23.5
			12	7	23.11	24.14	24.01	0.0	24.5
			12	13	23.12	23.19	23.01	1.0	23.5
			25	0	23.25	23.14	22.98	1.0	23.5
		16QAM	1	1	23.29	23.19	23.11	1.0	23.5
			1	13	23.17	23.19	23.01	1.0	23.5
			1	23	23.31	23.17	23.05	1.0	23.5
		64QAM	1	1	21.63	21.58	21.33	2.5	22.0
		256QAM	1	1	19.28	19.11	19.21	4.5	20.0
	CP-OFDM	QPSK	1	1	22.71	22.68	22.53	1.5	23.0

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

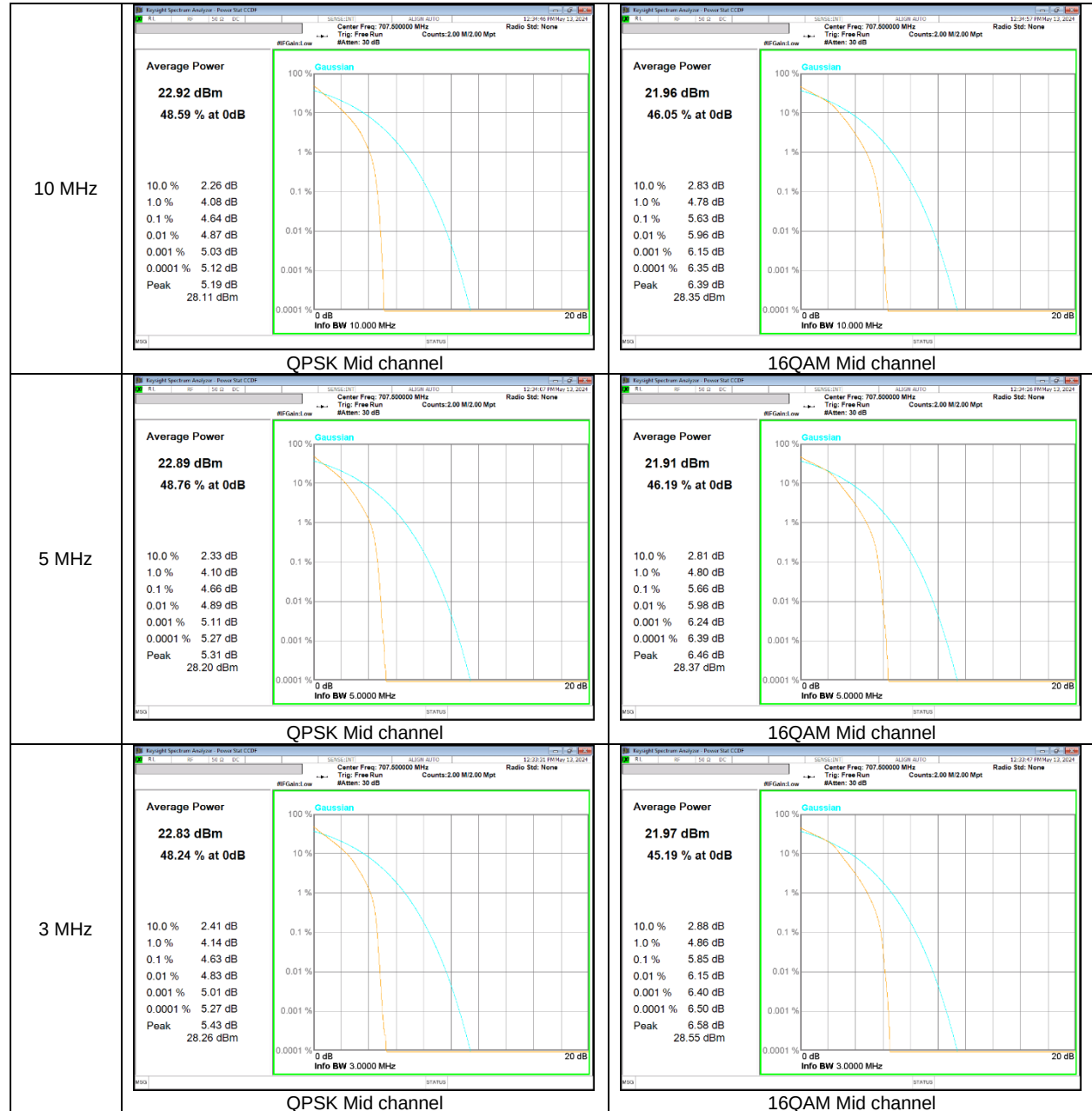
5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

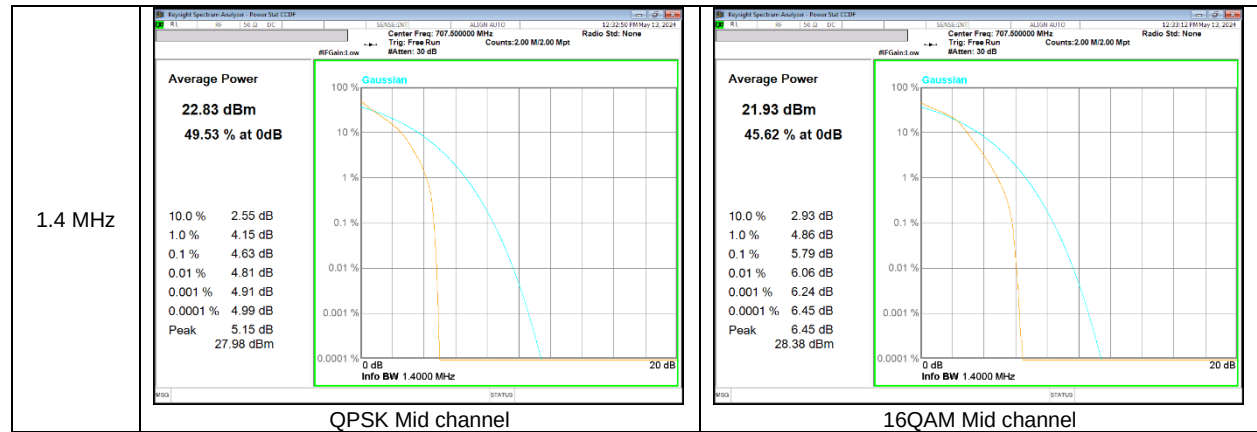
RESULTS

See the following pages.

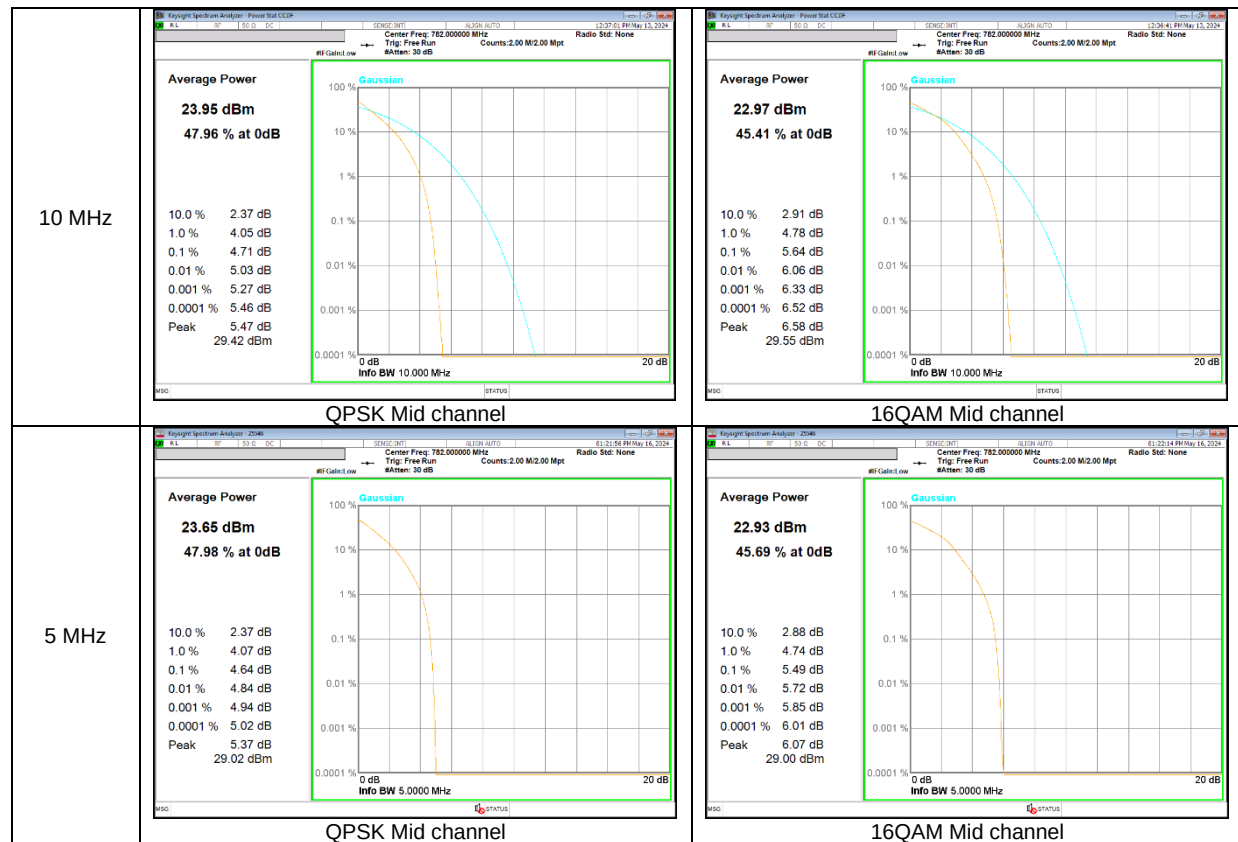
8.2.1. CONDUCTED PEAK TO AVERAGE RESULT

LTE Band 12

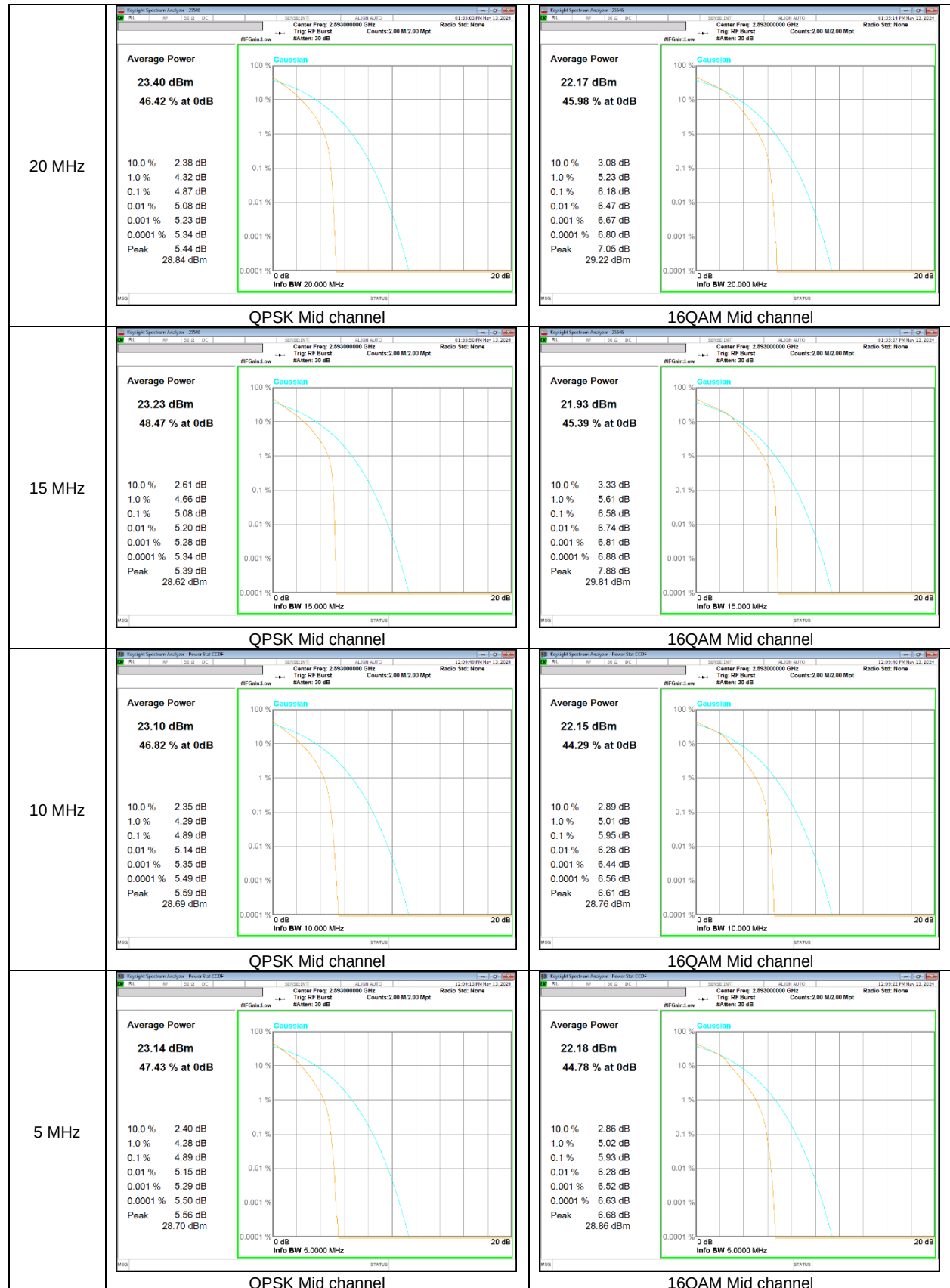




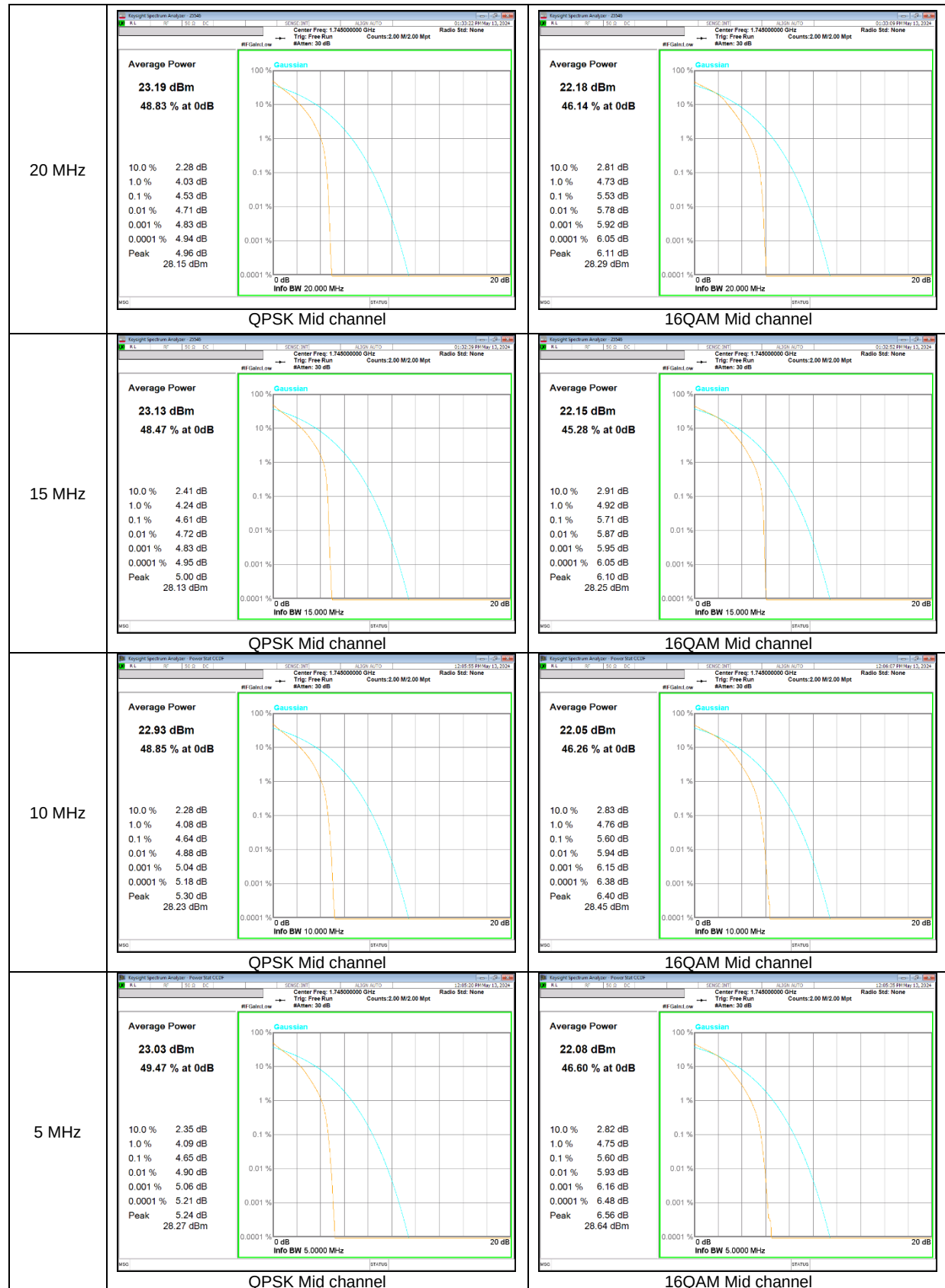
LTE Band 13

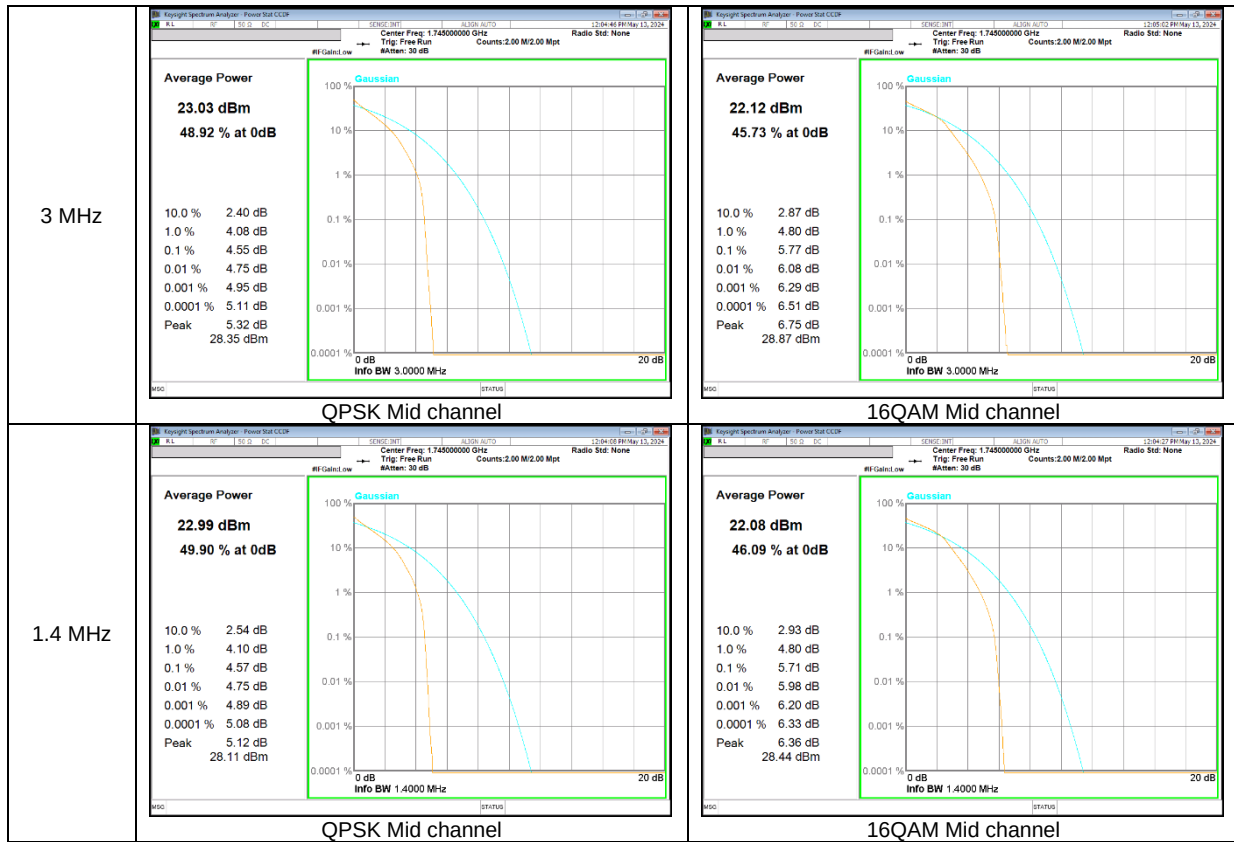


LTE Band 41

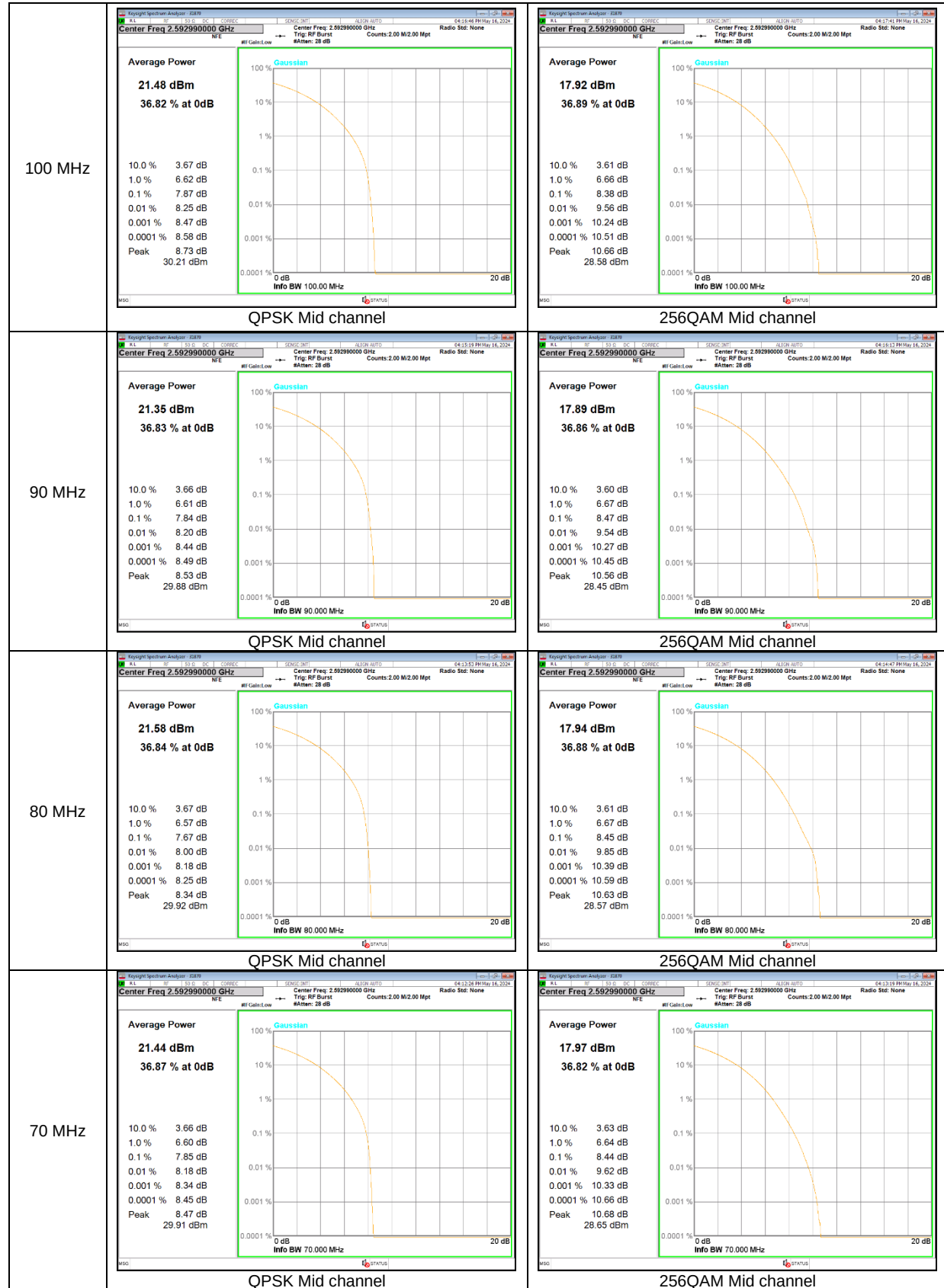


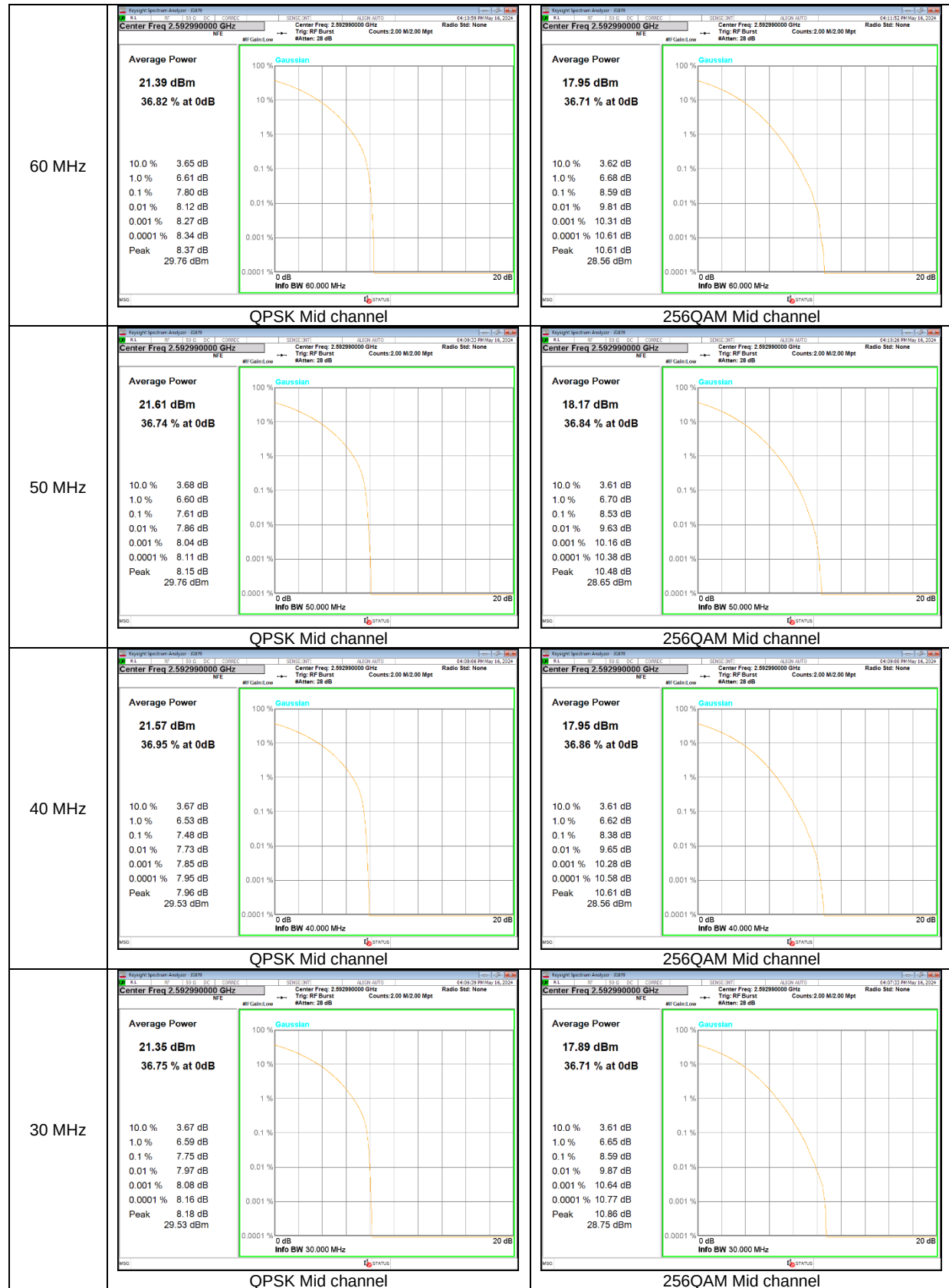
LTE Band 66

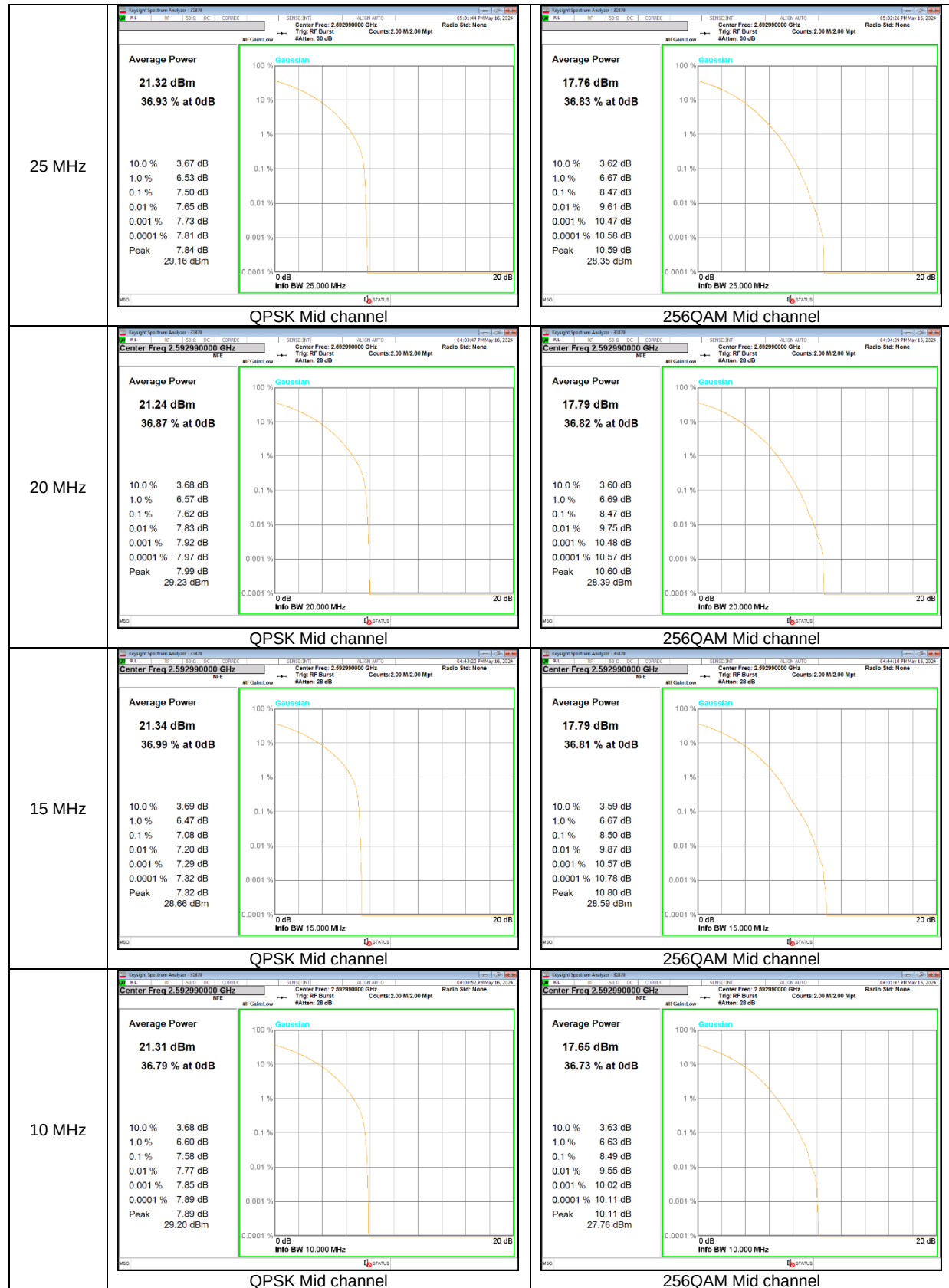




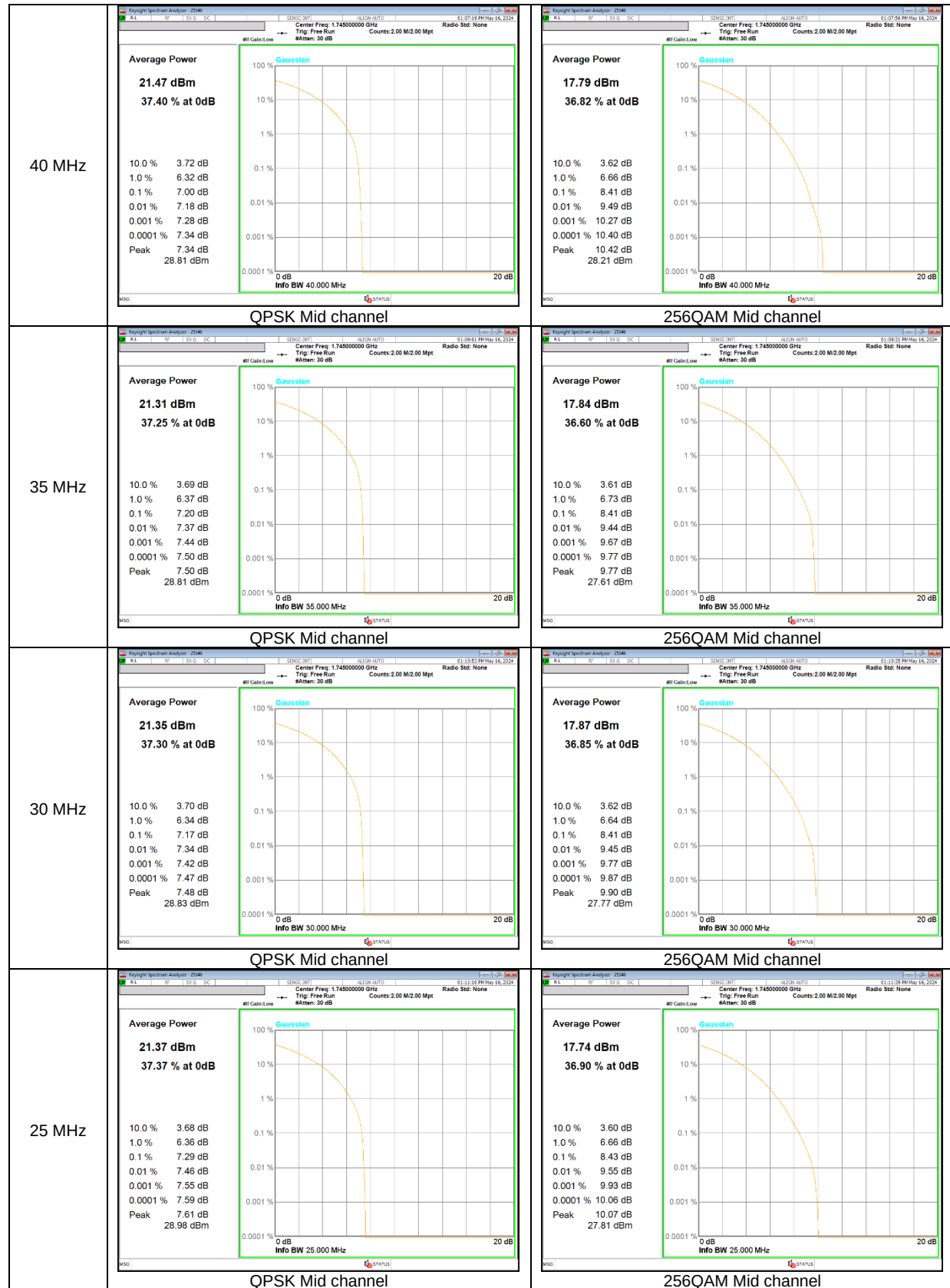
NR Band n41 CP-OFDM

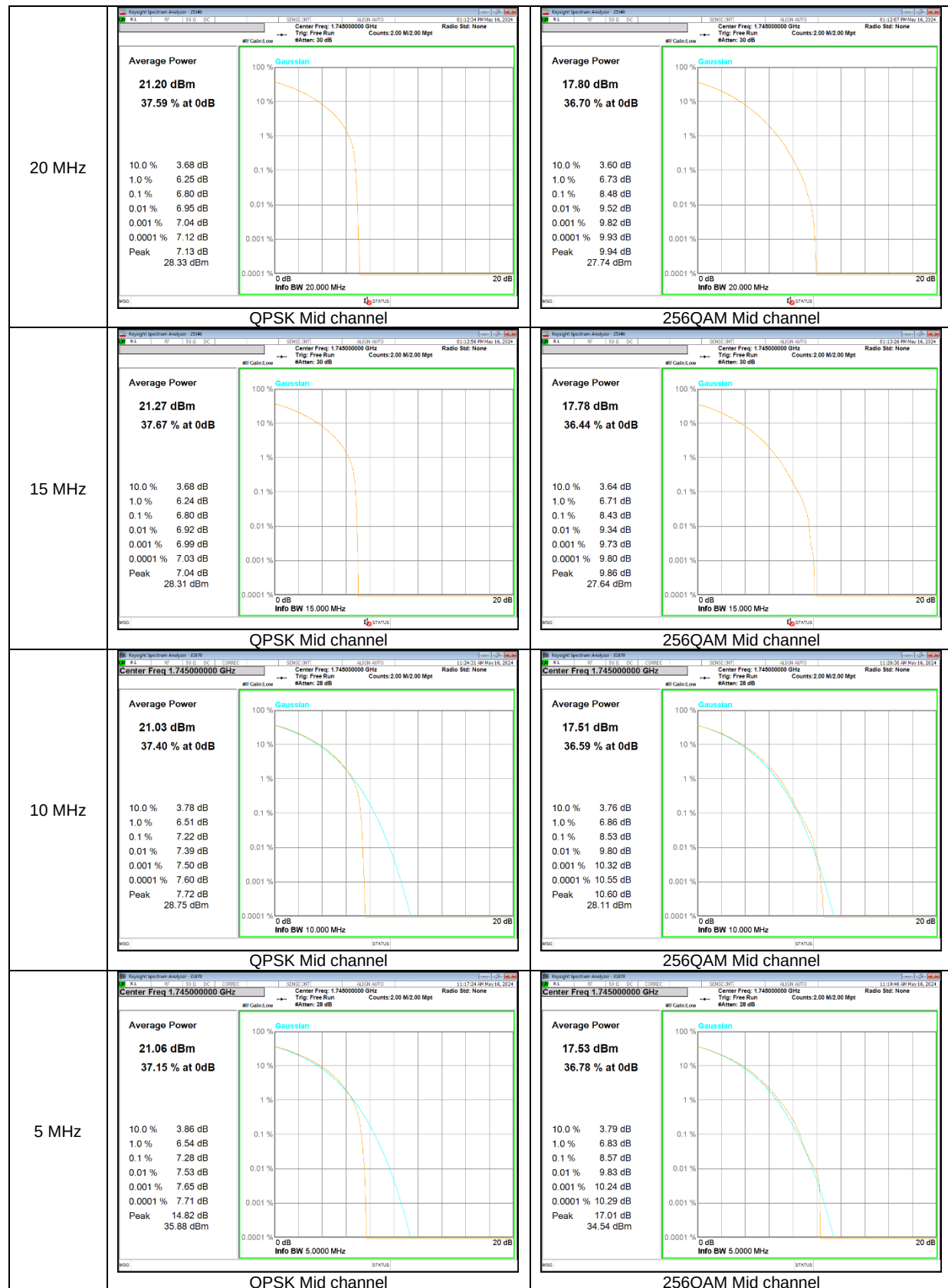






NR Band n66 CP-OFDM





8.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

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

(KDB 971168 D01 Power Meas License Digital Systems v03r01)

RESULTS

See the following pages.

- LTE Band 12

Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B12	10M	QPSK	707.50	8.972	10.020
		16QAM		8.946	9.919
	5M	QPSK		4.488	5.060
		16QAM		4.490	5.034
	3M	QPSK		2.693	3.072
		16QAM		2.705	3.027
	1.4M	QPSK		1.093	1.344
		16QAM		1.090	1.347

- LTE Band 13

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B13	10M	QPSK	782.00	8.951	9.769
		16QAM		8.970	9.836
	5M	QPSK		4.485	5.048
		16QAM		4.480	5.072

- LTE Band 41

Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B41	20M	QPSK	2593.00	17.937	20.190
		16QAM		17.959	20.750
	15M	QPSK		13.441	15.310
		16QAM		13.457	15.010
	10M	QPSK		8.968	10.240
		16QAM		8.979	9.914
	5M	QPSK		4.493	5.081
		16QAM		4.052	5.254

- LTE Band 41C (UL CA)

Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B41C	20+20M	QPSK	2593.00	37.533	39.520
		16QAM		37.574	39.560

- LTE Band 66

Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B66	20M	QPSK	1745.00	17.905	19.500
		16QAM		17.884	19.630
	15M	QPSK		13.449	14.590
		16QAM		13.429	14.700
	10M	QPSK		8.959	9.942
		16QAM		8.963	9.889
	5M	QPSK		4.496	5.111
		16QAM		4.501	5.163
	3M	QPSK		2.698	3.031
		16QAM		2.697	3.034
	1.4M	QPSK		1.087	1.318
		16QAM		1.093	1.388

- NR Band n41 CP-OFDM

Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n41	100M	QPSK	2592.99	97.687	101.700
		16QAM		97.757	101.400
	90M	QPSK		88.046	91.490
		16QAM		88.077	91.320
	80M	QPSK		77.808	80.620
		16QAM		77.724	80.590
	70M	QPSK		67.803	70.370
		16QAM		67.668	70.430
	60M	QPSK		57.990	60.340
		16QAM		57.931	60.230
	50M	QPSK		47.615	49.880
		16QAM		47.604	49.710
	40M	QPSK		37.984	39.630
		16QAM		37.998	39.810
	30M	QPSK		27.964	29.730
		16QAM		27.962	29.530
	25M	QPSK		23.266	24.480
		16QAM		23.263	24.410
	20M	QPSK		18.278	19.220
		16QAM		18.216	19.550
	15M	QPSK		13.581	15.090
		16QAM		13.604	14.630
	10M	QPSK		8.598	9.765
		16QAM		8.616	9.694

- NR Band n66 CP-OFDM

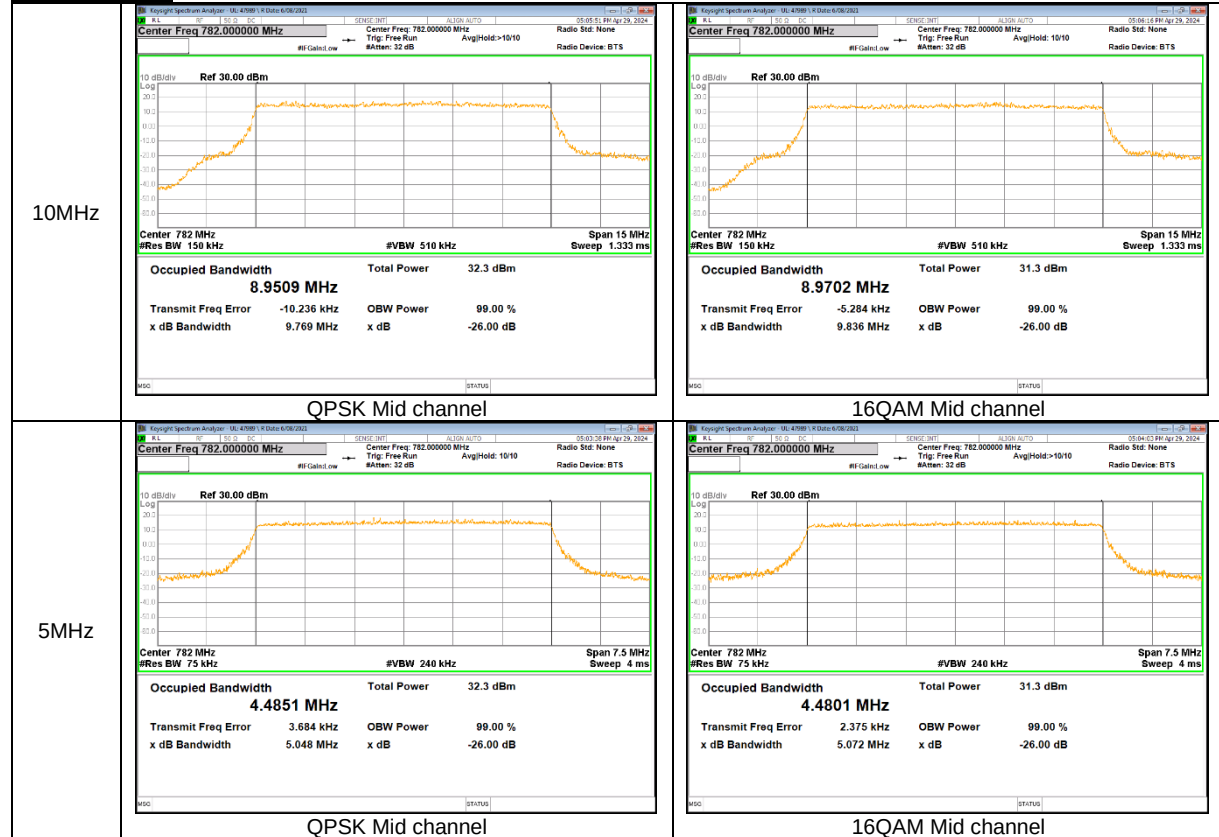
Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n66	40M	QPSK	1745.00	38.572	40.250
		16QAM		38.592	40.260
	35M	QPSK		33.593	35.050
		16QAM		33.569	35.010
	30M	QPSK		28.577	30.100
		16QAM		28.632	29.840
	25M	QPSK		23.751	24.970
		16QAM		23.774	25.000
	20M	QPSK		18.954	19.870
		16QAM		18.918	20.000
	15M	QPSK		14.079	14.930
		16QAM		14.123	15.000
	10M	QPSK		9.287	9.932
		16QAM		9.287	10.070
	5M	QPSK		4.487	5.104
		16QAM		4.481	5.175

8.3.1. OCCUPIED BANDWIDTH RESULT

LTE Band 12



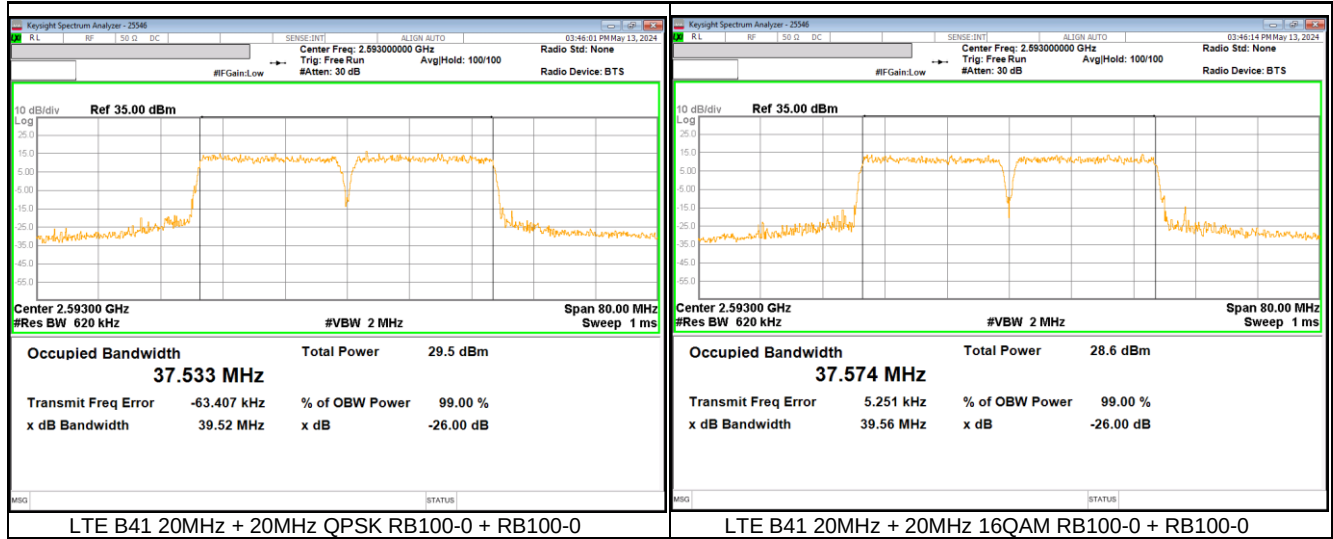
LTE Band 13



LTE Band 41



LTE Band 41C (UL CA)



LTE Band 66

