

# CERTIFICATION TEST REPORT

**Report Number.** : 4790976555-E4V2

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

**Model** : SM-S921B/DS, SM-S921B

**FCC ID** : A3LSMS921B

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

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

**Date Of Issue:**

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
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# 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 and WPT.

**MODEL NUMBER:** SM-S921B/DS, SM-S921B

**SERIAL NUMBER:** R3CW80FKPKN, R3CW80FKP6R, R3CW80FKPWJ, R3CW80R6LQF, R3CW80FKPZP, R3CW90D5NAJ (CONDUCTED); R3CW80R6JZL, R3CW80R6KLB, R3CW80R6M1V, R3CW80R6L9H, R3CW80R6LNE, R3CW90M7N2J (RADIATED);

**DATE TESTED:** 2023-08-25 - 2023-10-18;

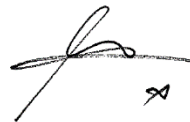
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 27 F,H,L,M,O,Q	Complies

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

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

Approved & Released For  
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Tested By:



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Suwon Lab Engineer  
UL KOREA LTD.

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

## 3. FACILITIES AND ACCREDITATION

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

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

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

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

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

### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

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

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

### 4.3. MEASUREMENT UNCERTAINTY

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

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

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

### 4.4. DECISION RULE

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

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

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

Representative model	Difference	Derivative model
		SM-S921B
SM-S921B/DS	Hardware	Different Sim Card tray
	Software	Same

The model SM-S921B/DS 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:

#### WCDMA

FCC Part 27						
Band	Frequency Range [MHz]	Modulation	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 4_ANT A	1712.40 ~ 1752.60	Rel. 99	<b>23.02</b>	<b>200.45</b>	<b>23.83</b>	<b>241.72</b>
		HSDPA	21.99	158.12	23.06	202.45

#### LTE Band 12

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 12_ANT A	704.00 ~ 711.00	10	QPSK	<b>24.11</b>	<b>257.63</b>	17.18	52.27
			16QAM	23.26	211.84	16.15	41.21
			64QAM	22.14	163.68		
			256QAM	21.16	130.62		
	701.50 ~ 713.50	5	QPSK	23.93	247.17	17.30	53.65
			16QAM	23.13	205.59	16.15	41.17
			64QAM	22.28	169.04		
			256QAM	21.23	132.74		
	700.50 ~ 714.50	3	QPSK	24.03	252.93	17.33	54.10
			16QAM	23.04	201.37	16.27	42.38
			64QAM	22.34	171.40		
			256QAM	21.36	136.77		
	699.70 ~ 715.30	1.4	QPSK	24.02	252.35	<b>17.48</b>	<b>56.01</b>
			16QAM	23.08	203.24	16.65	46.27
			64QAM	22.18	165.20		
			256QAM	21.12	129.42		

**LTE Band 13**

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 13_ANT A	782.00	10	QPSK	<b>23.87</b>	<b>243.78</b>	18.41	69.32
			16QAM	22.95	197.24	17.38	54.69
			64QAM	21.85	153.11		
			256QAM	20.85	121.62		
	779.50 ~ 784.50	5	QPSK	23.75	237.14	<b>18.96</b>	<b>78.65</b>
			16QAM	22.89	194.54	17.86	61.05
			64QAM	22.07	161.06		
			256QAM	21.01	126.18		

**LTE Band 41 (PC2)**

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 41_ANT B	2506.00 ~ 2680.00	20	QPSK	25.04	319.15	24.55	285.36
			16QAM	24.13	258.82	24.05	254.33
			64QAM	23.64	231.21		
			256QAM	22.99	199.07		
	2503.50 ~ 2682.50	15	QPSK	<b>25.28</b>	<b>337.29</b>	24.61	288.82
			16QAM	24.46	279.25	23.81	240.23
			64QAM	23.75	237.14		
			256QAM	22.97	198.15		
	2501.00 ~ 2685.00	10	QPSK	25.03	318.42	24.34	271.87
			16QAM	24.13	258.82	23.63	230.87
			64QAM	23.54	225.94		
			256QAM	22.72	187.07		
	2498.50 ~ 2687.50	5	QPSK	25.25	334.97	<b>25.20</b>	<b>331.18</b>
			16QAM	24.46	279.25	24.42	276.74
			64QAM	23.80	239.88		
			256QAM	22.98	198.61		



**LTE Band 66**

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 66_ANT A	1720.00 - 1770.00	20	QPSK	22.63	183.23	<b>23.60</b>	<b>229.28</b>
			16QAM	21.87	153.82	22.90	195.15
			64QAM	20.98	125.31		
			256QAM	19.84	96.38		
	1717.50 - 1772.50	15	QPSK	22.71	186.64	23.10	204.28
			16QAM	21.87	153.82	22.28	169.19
			64QAM	21.06	127.64		
			256QAM	19.99	99.77		
	1715.00 - 1775.00	10	QPSK	22.81	190.99	23.24	211.04
			16QAM	21.85	153.11	22.46	176.35
			64QAM	20.96	124.74		
			256QAM	20.13	103.04		
	1712.50 - 1777.50	5	QPSK	22.77	189.23	23.23	210.55
			16QAM	21.98	157.76	22.63	183.39
			64QAM	21.16	130.62		
			256QAM	20.29	106.91		
	1711.50 - 1778.50	3	QPSK	22.88	194.09	23.10	204.35
			16QAM	22.01	158.85	22.29	169.58
			64QAM	21.36	136.77		
			256QAM	20.17	103.99		
	1710.70 - 1779.30	1.4	QPSK	<b>22.89</b>	<b>194.54</b>	23.25	211.53
			16QAM	22.03	159.59	22.47	176.75
			64QAM	21.28	134.28		
			256QAM	20.02	100.46		

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 66_ANT F	1720.00 ~ 1770.00	20	QPSK	22.45	175.79	<b>19.32</b>	<b>85.58</b>
			16QAM	21.69	147.57	18.58	72.17
			64QAM	20.93	123.88		
			256QAM	17.92	61.94		
	1717.50 ~ 1772.50	15	QPSK	22.55	179.89	18.94	78.41
			16QAM	21.85	153.11	18.25	66.78
			64QAM	20.85	121.62		
			256QAM	17.80	60.26		
	1715.00 ~ 1775.00	10	QPSK	22.51	178.24	19.00	79.50
			16QAM	21.98	157.76	18.34	68.20
			64QAM	20.91	123.31		
			256QAM	17.83	60.67		
	1712.50 ~ 1777.50	5	QPSK	22.54	179.47	19.21	83.44
			16QAM	22.05	160.32	18.30	67.67
			64QAM	21.20	131.83		
			256QAM	17.87	61.24		
	1711.50 ~ 1778.50	3	QPSK	22.65	184.08	18.98	79.11
			16QAM	21.96	157.04	18.24	66.72
			64QAM	20.88	122.46		
			256QAM	17.98	62.81		
	1710.70 ~ 1779.30	1.4	QPSK	<b>22.67</b>	<b>184.93</b>	19.04	80.21
			16QAM	21.88	154.17	18.31	67.80
			64QAM	21.48	140.60		
			256QAM	17.84	60.81		

**NR Band n41**

FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41_ANT F	2546.01 ~ 2640.00	100	DFT-s OFDM	$\pi/2$ BPSK	24.96	313.09		
				QPSK	<b>24.99</b>	<b>315.50</b>	23.52	224.92
				16QAM	23.77	238.09	22.40	173.79
				64QAM	22.35	171.77		
			256QAM	20.43	110.41			
	CP-OFDM	QPSK	23.34	215.93				
	2541.00 ~ 2644.98	90	DFT-s OFDM	$\pi/2$ BPSK	24.97	314.05		
				QPSK	24.98	314.77	25.21	331.87
				16QAM	23.74	236.80	24.45	278.33
				64QAM	22.44	175.55		
			256QAM	20.44	110.75			
	CP-OFDM	QPSK	23.41	219.33				
	2536.02 ~ 2649.99	80	DFT-s OFDM	$\pi/2$ BPSK	24.97	314.41		
				QPSK	24.98	314.76	23.27	212.41
				16QAM	23.91	246.12	22.33	171.03
				64QAM	22.31	170.28		
			256QAM	20.46	111.16			
	CP-OFDM	QPSK	23.33	215.48				
	2531.02 ~ 2654.98	70	DFT-s OFDM	$\pi/2$ BPSK	24.98	314.77		
				QPSK	24.96	313.33	25.22	332.99
				16QAM	23.77	238.37	24.28	267.87
				64QAM	22.23	167.13		
			256QAM	20.36	108.66			
	CP-OFDM	QPSK	23.44	220.88				
	2526.00 ~ 2659.98	60	DFT-s OFDM	$\pi/2$ BPSK	24.95	312.61		
				QPSK	24.98	314.77	23.47	222.45
				16QAM	23.98	250.03	22.64	183.71
				64QAM	22.43	174.98		
			256QAM	20.27	106.45			
	CP-OFDM	QPSK	23.43	220.29				
	2521.01 ~ 2665.00	50	DFT-s OFDM	$\pi/2$ BPSK	24.96	313.47		
				QPSK	24.97	313.99	23.73	236.26
				16QAM	23.76	237.94	22.89	194.46
				64QAM	22.33	171.19		
			256QAM	20.39	109.48			
	CP-OFDM	QPSK	23.44	220.80				
	2516.01 ~ 2670.00	40	DFT-s OFDM	$\pi/2$ BPSK	24.93	311.03		
				QPSK	24.98	314.72	23.91	245.78
				16QAM	23.80	240.14	23.14	206.04
				64QAM	22.37	172.43		
256QAM			20.44	110.71				
CP-OFDM	QPSK	23.41	219.28					
2511.00 ~ 2675.00	30	DFT-s OFDM	$\pi/2$ BPSK	24.99	315.40			
			QPSK	24.99	315.21	<b>25.41</b>	<b>347.73</b>	
			16QAM	23.55	226.50	24.42	276.65	
			64QAM	22.24	167.50			
		256QAM	20.34	108.19				
CP-OFDM	QPSK	23.17	207.39					
2506.02 ~ 2679.99	20	DFT-s OFDM	$\pi/2$ BPSK	24.95	312.58			
			QPSK	24.95	312.64	23.64	231.04	
			16QAM	23.69	234.03	22.80	190.41	
			64QAM	22.41	174.05			
		256QAM	20.36	108.59				
CP-OFDM	QPSK	23.34	215.87					

n41_ANT F	2503.50 ~ 2682.48	15	DFT-s OFDM	$\pi/2$ BPSK	24.94	312.23		
				QPSK	24.98	314.50	24.03	253.08
				16QAM	23.63	230.66	23.31	214.39
				64QAM	22.35	171.65		
				256QAM	20.40	109.77		
	CP-OFDM	QPSK	23.35	216.43				
	2501.01 ~ 2685.00	10	DFT-s OFDM	$\pi/2$ BPSK	24.94	311.68		
				QPSK	24.95	312.92	24.10	257.02
				16QAM	23.77	238.46	23.44	220.78
				64QAM	22.42	174.41		
256QAM				20.50	112.15			
CP-OFDM	QPSK	23.44	220.74					

**NR Band n41 (SRS1)**

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41_ANT B	2546.01 ~ 2640.00	100	21.56	143.22		
	2541.00 ~ 2644.98	90	21.55	142.89		
	2536.02 ~ 2649.99	80	21.58	143.88		
	2531.02 ~ 2654.98	70	21.62	145.21		
	2526.00 ~ 2659.98	60	21.65	146.22		
	2521.01 ~ 2665.00	50	21.60	144.54		
	2516.01 ~ 2670.00	40	21.62	145.21		
	2511.00 ~ 2675.00	30	21.58	143.88		
	2506.02 ~ 2679.99	20	21.55	142.89		
	2503.5 ~ 2682.48	15	21.63	145.55		
2501.01 ~ 2685.00	10		<b>21.67</b>	<b>146.89</b>	<b>23.09</b>	<b>203.64</b>

**NR Band n41 (SRS2)**

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41_ANT E	2546.01 ~ 2640.00	100	23.26	211.84		
	2541.00 ~ 2644.98	90	23.27	212.32		
	2536.02 ~ 2649.99	80	23.28	212.81		
	2531.02 ~ 2654.98	70	23.31	214.29		
	2526.00 ~ 2659.98	60	23.34	215.77		
	2521.01 ~ 2665.00	50	23.33	215.28		
	2516.01 ~ 2670.00	40	23.42	219.79		
	2511.00 ~ 2675.00	30	23.42	219.79		
	2506.02 ~ 2679.99	20	23.45	221.31		
	2503.5 ~ 2682.48	15	23.42	219.79		
2501.01 ~ 2685.00	10		<b>23.47</b>	<b>222.33</b>	<b>24.68</b>	<b>293.74</b>

**NR Band n41 (SRS3)**

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41_ANT D	2546.01 ~ 2640.00	100	20.11	102.57		
	2541.00 ~ 2644.98	90	20.12	102.80		
	2536.02 ~ 2649.99	80	20.14	103.28		
	2531.02 ~ 2654.98	70	20.18	104.23		
	2526.00 ~ 2659.98	60	20.13	103.04		
	2521.01 ~ 2665.00	50	20.16	103.75		
	2516.01 ~ 2670.00	40	<b>20.22</b>	<b>105.20</b>	<b>13.17</b>	<b>20.75</b>
	2511.00 ~ 2675.00	30	20.14	103.28		
	2506.02 ~ 2679.99	20	20.14	103.28		
	2503.5 ~ 2682.48	15	20.13	103.04		
2501.01 ~ 2685.00	10		20.11	102.57		

**NR Band n66**

FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n66_ANT A	1720.00 ~ 1770.00	20	DFT-s OFDM	$\pi/2$ BPSK	23.39	218.27		
				QPSK	23.38	217.77	24.22	263.96
				16QAM	22.43	174.98	23.29	213.08
				64QAM	20.96	124.74		
				256QAM	18.93	78.16		
	CP-OFDM	QPSK	21.96	157.04				
	1717.50 ~ 1772.50	15	DFT-s OFDM	$\pi/2$ BPSK	23.47	222.33		
				QPSK	<b>23.48</b>	<b>222.84</b>	<b>24.41</b>	<b>275.91</b>
				16QAM	22.46	176.20	23.36	216.66
				64QAM	20.92	123.59		
				256QAM	18.96	78.70		
	CP-OFDM	QPSK	21.94	156.31				
	1715.00 ~ 1775.00	10	DFT-s OFDM	$\pi/2$ BPSK	23.43	220.29		
				QPSK	23.39	218.27	24.20	263.15
				16QAM	22.45	175.79	23.03	201.13
				64QAM	20.90	123.03		
				256QAM	18.93	78.16		
	CP-OFDM	QPSK	21.93	155.96				
	1712.50 ~ 1777.50	5	DFT-s OFDM	$\pi/2$ BPSK	23.42	219.79		
				QPSK	23.47	222.33	23.83	241.54
16QAM				22.47	176.60	22.80	190.54	
64QAM				20.94	124.17			
256QAM				18.98	79.07			
CP-OFDM	QPSK	21.99	158.12					
FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n66_ANT F	1720.00 ~ 1770.00	20	DFT-s OFDM	$\pi/2$ BPSK	22.62	182.81		
				QPSK	22.60	181.97	19.01	79.57
				16QAM	21.57	143.55	18.14	65.17
				64QAM	20.07	101.62		
				256QAM	18.09	64.42		
	CP-OFDM	QPSK	21.19	131.52				
	1717.50 ~ 1772.50	15	DFT-s OFDM	$\pi/2$ BPSK	22.67	184.93		
				QPSK	22.52	178.65	18.80	75.78
				16QAM	21.73	148.94	17.91	61.78
				64QAM	20.16	103.75		
				256QAM	18.13	65.01		
	CP-OFDM	QPSK	21.22	132.43				
	1715.00 ~ 1775.00	10	DFT-s OFDM	$\pi/2$ BPSK	<b>22.74</b>	<b>187.93</b>		
				QPSK	<b>22.74</b>	<b>187.93</b>	<b>19.10</b>	<b>81.33</b>
				16QAM	21.58	143.88	18.17	65.58
				64QAM	20.40	109.65		
				256QAM	18.20	66.07		
	CP-OFDM	QPSK	21.22	132.43				
	1712.50 ~ 1777.50	5	DFT-s OFDM	$\pi/2$ BPSK	22.66	184.50		
				QPSK	22.61	182.39	18.91	77.87
16QAM				21.73	148.94	17.98	62.77	
64QAM				20.23	105.44			
256QAM				18.11	64.71			
CP-OFDM	QPSK	21.20	131.83					

**NR Band n77(3450-3550 MHz, ANT F)**

FCC Part 27									
Band	Frequency Range	BandWidth	Modulation	Mode	Conducted		Radiated		
	[MHz]	[MHz]			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]	
n77_ANT F	3499.98	100	DFT-s OFDM	$\pi/2$ BPSK	24.39	274.79			
				QPSK	<b>24.60</b>	<b>288.40</b>	<b>23.12</b>	<b>205.17</b>	
				16QAM	23.51	224.39	22.27	168.70	
				64QAM	21.89	154.53			
				256QAM	19.99	99.77			
				CP-OFDM	QPSK	23.04	201.37		
	3495.00 ~ 3504.99	90	DFT-s OFDM	$\pi/2$ BPSK	24.49	281.19			
				QPSK	24.44	277.97	22.92	196.07	
				16QAM	23.50	223.87	22.09	161.96	
				64QAM	21.88	154.17			
				256QAM	20.03	100.69			
				CP-OFDM	QPSK	22.95	197.24		
	3490.02 ~ 3510.00	80	DFT-s OFDM	$\pi/2$ BPSK	24.42	276.69			
				QPSK	24.47	279.90	23.11	204.84	
				16QAM	23.54	225.94	22.08	161.59	
				64QAM	21.58	143.88			
				256QAM	20.02	100.46			
				CP-OFDM	QPSK	22.93	196.34		
	3485.01 ~ 3514.98	70	DFT-s OFDM	$\pi/2$ BPSK	24.49	281.19			
				QPSK	24.49	281.19	23.10	204.27	
				16QAM	23.48	222.84	22.13	163.38	
				64QAM	21.77	150.31			
				256QAM	20.04	100.93			
				CP-OFDM	QPSK	22.98	198.61		
	3480.00 ~ 3519.99	60	DFT-s OFDM	$\pi/2$ BPSK	24.42	276.64			
				QPSK	24.44	277.66	22.84	192.17	
				16QAM	23.19	208.53	21.86	153.35	
				64QAM	22.10	162.15			
				256QAM	20.49	111.85			
				CP-OFDM	QPSK	23.05	201.93		
	3475.02 ~ 3525.00	50	DFT-s OFDM	$\pi/2$ BPSK	24.41	276.29			
				QPSK	24.42	276.72	22.86	193.17	
16QAM				23.33	215.24	21.96	157.01		
64QAM				21.95	156.68				
256QAM				20.45	110.86				
			CP-OFDM	QPSK	23.01	200.06			
3470.01 ~ 3529.98	40	DFT-s OFDM	$\pi/2$ BPSK	24.44	277.70				
			QPSK	24.42	276.49	22.69	185.89		
			16QAM	23.40	218.74	21.77	150.40		
			64QAM	21.92	155.74				
			256QAM	20.28	106.61				
			CP-OFDM	QPSK	22.84	192.29			
3465.00 ~ 3535.02	30	DFT-s OFDM	$\pi/2$ BPSK	24.42	276.95				
			QPSK	24.45	278.90	22.62	182.98		
			16QAM	23.36	216.89	21.67	147.03		
			64QAM	21.93	155.94				
			256QAM	20.47	111.43				
			CP-OFDM	QPSK	23.05	201.70			

n77_ANT F	3460.02 ~ 3540.00	20	DFT-s OFDM	$\pi/2$ BPSK	24.55	284.80		
				QPSK	24.50	282.11	22.44	175.54
				16QAM	23.56	227.15	21.48	140.73
				64QAM	21.94	156.30		
			256QAM	20.34	108.23			
	CP-OFDM	QPSK	23.00	199.71				
	3457.50 ~ 3542.49	15	DFT-s OFDM	$\pi/2$ BPSK	24.54	284.58		
				QPSK	24.53	283.67	22.56	180.38
				16QAM	23.62	230.30	21.77	150.38
				64QAM	22.13	163.32		
			256QAM	20.45	110.84			
	CP-OFDM	QPSK	23.19	208.28				
	3455.01 ~ 3544.98	10	DFT-s OFDM	$\pi/2$ BPSK	24.52	283.36		
				QPSK	24.55	284.90	22.66	184.61
				16QAM	23.53	225.58	21.75	149.71
64QAM				22.24	167.56			
256QAM			20.42	110.26				
CP-OFDM	QPSK	22.94	197.00					



**NR Band n77(3450-3550 MHz, SRS1, ANT C)**

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77_ANT C	3499.98	100	23.20	208.93		
	3495.00 ~ 3504.99	90	23.18	207.97		
	3490.02 ~ 3510.00	80	23.13	205.59		
	3485.01 ~ 3514.98	70	23.16	207.01		
	3480.00 ~ 3519.99	60	23.19	208.45		
	3475.02 ~ 3525.00	50	23.28	212.81		
	3470.01 ~ 3529.98	40	23.30	213.80		
	3465.00 ~ 3535.02	30	23.38	217.77		
	3460.02 ~ 3540.00	20	23.43	220.29		
	3457.50 ~ 3542.49	15	23.44	220.80		
3455.01 ~ 3549.99	10	<b>23.51</b>	<b>224.39</b>	<b>23.04</b>	<b>201.37</b>	

**NR Band n77(3450-3550 MHz, SRS2, ANT L)**

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77_ANT L	3499.98	100	20.47	111.43		
	3495.00 ~ 3504.99	90	20.51	112.46		
	3490.02 ~ 3510.00	80	20.55	113.50		
	3485.01 ~ 3514.98	70	20.58	114.29		
	3480.00 ~ 3519.99	60	20.60	114.82		
	3475.02 ~ 3525.00	50	20.61	115.08		
	3470.01 ~ 3529.98	40	20.62	115.35		
	3465.00 ~ 3535.02	30	20.62	115.35		
	3460.02 ~ 3540.00	20	20.61	115.08		
	3457.50 ~ 3542.49	15	20.62	115.35		
3455.01 ~ 3549.99	10	<b>20.67</b>	<b>116.68</b>	<b>18.09</b>	<b>64.39</b>	

**NR Band n77(3450-3550 MHz, SRS3, ANT D)**

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77_ANT D	3499.98	100	22.58	181.13		
	3495.00 ~ 3504.99	90	22.61	182.39		
	3490.02 ~ 3510.00	80	22.58	181.13		
	3485.01 ~ 3514.98	70	22.66	184.50		
	3480.00 ~ 3519.99	60	22.63	183.23		
	3475.02 ~ 3525.00	50	22.65	184.08		
	3470.01 ~ 3529.98	40	22.62	182.81		
	3465.00 ~ 3535.02	30	22.63	183.23		
	3460.02 ~ 3540.00	20	22.60	181.97		
	3457.50 ~ 3542.49	15	22.60	181.97		
3455.01 ~ 3549.99	10	<b>22.67</b>	<b>184.93</b>	<b>20.29</b>	<b>106.80</b>	

**NR Band n77(3700-3980 MHz, ANT F)**

FCC Part 27									
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated		
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]	
n77_ANT F	3750.00 – 3930.00	100	DFT-s OFDM	π/2 BPSK	23.83	241.55			
				QPSK	<b>23.89</b>	<b>244.91</b>	<b>23.79</b>	<b>239.20</b>	
				16QAM	22.83	191.87	22.81	190.88	
				64QAM	21.32	135.52			
				256QAM	19.39	86.90			
				CP-OFDM	QPSK	22.25	167.88		
	3745.02 – 3934.98	90	DFT-s OFDM	π/2 BPSK	23.87	243.78			
				QPSK	23.88	244.34	23.47	222.41	
				16QAM	22.89	194.54	22.52	178.72	
				64QAM	21.38	137.40			
				256QAM	19.38	86.70			
				CP-OFDM	QPSK	22.29	169.43		
	3740.01 – 3939.99	80	DFT-s OFDM	π/2 BPSK	23.83	241.55			
				QPSK	23.87	243.78	23.62	230.16	
				16QAM	22.87	193.64	22.74	187.94	
				64QAM	21.33	135.83			
				256QAM	19.58	90.78			
				CP-OFDM	QPSK	22.24	167.49		
	3735.02 – 3944.98	70	DFT-s OFDM	π/2 BPSK	23.69	233.88			
				QPSK	23.79	239.33	23.67	232.69	
				16QAM	22.89	194.54	22.76	188.71	
				64QAM	20.96	124.74			
				256QAM	19.47	88.51			
				CP-OFDM	QPSK	22.24	167.49		
	3730.02 – 3949.98	60	DFT-s OFDM	π/2 BPSK	23.88	244.38			
				QPSK	23.83	241.74	23.78	238.63	
				16QAM	22.69	185.65	22.55	179.77	
				64QAM	21.50	141.26			
				256QAM	19.93	98.40			
				CP-OFDM	QPSK	22.52	178.49		
	3725.01 – 3954.99	50	DFT-s OFDM	π/2 BPSK	23.83	241.81			
				QPSK	23.87	243.81	23.29	213.54	
16QAM				22.72	187.00	22.34	171.58		
64QAM				21.46	140.11				
256QAM				19.73	94.06				
			CP-OFDM	QPSK	22.31	170.36			
3720.02 – 3960.0	40	DFT-s OFDM	π/2 BPSK	23.73	235.98				
			QPSK	23.75	236.95	23.16	207.20		
			16QAM	22.67	184.96	22.25	168.07		
			64QAM	21.32	135.38				
			256QAM	19.75	94.46				
			CP-OFDM	QPSK	22.18	165.34			
3715.02 – 3964.98	30	DFT-s OFDM	π/2 BPSK	23.70	234.26				
			QPSK	23.70	234.54	23.38	217.92		
			16QAM	22.61	182.31	22.59	181.68		
			64QAM	21.08	128.18				
			256QAM	19.77	94.76				
			CP-OFDM	QPSK	22.23	167.00			

n77_ANT F	3710.01 - 3969.99	20	DFT-s OFDM	$\pi/2$ BPSK	23.75	237.11		
				QPSK	23.83	241.69	23.43	220.32
				16QAM	22.80	190.68	22.43	175.01
				64QAM	21.39	137.88		
			256QAM	19.88	97.23			
	CP-OFDM	QPSK	22.40	173.89				
	3707.52 - 3972.48	15	DFT-s OFDM	$\pi/2$ BPSK	23.64	231.11		
				QPSK	23.70	234.36	22.97	198.00
				16QAM	22.56	180.40	22.23	166.98
				64QAM	21.21	132.14		
			256QAM	19.76	94.69			
	CP-OFDM	QPSK	22.11	162.45				
	3705.00 - 3975.00	10	DFT-s OFDM	$\pi/2$ BPSK	23.62	230.14		
				QPSK	23.65	231.50	23.32	215.01
				16QAM	22.56	180.26	22.30	169.96
64QAM				21.14	129.99			
256QAM			19.65	92.21				
CP-OFDM	QPSK	22.11	162.62					

**NR Band n77(3700-3980 MHz, SRS1, ANT C)**

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77_ANT C	3750.00 ~ 3930.00	100	<b>22.85</b>	<b>192.75</b>	<b>26.16</b>	<b>413.33</b>
	3745.02 ~ 3934.98	90	22.80	190.55		
	3740.01 ~ 3939.99	80	22.81	190.99		
	3735.02 ~ 3944.98	70	22.82	191.43		
	3730.02 ~ 3949.98	60	22.82	191.43		
	3725.01 ~ 3954.99	50	22.81	190.99		
	3720.02 ~ 3960.00	40	22.82	191.43		
	3715.02 ~ 3964.98	30	22.82	191.43		
	3710.01 ~ 3969.99	20	22.79	190.11		
	3707.52 ~ 3972.48	15	22.77	189.23		
3705.00 ~ 3975.00	10	22.80	190.55			

**NR Band n77(3700-3980 MHz, SRS2, ANT L)**

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77_ANT L	3750.00 ~ 3930.00	100	20.30	107.15		
	3745.02 ~ 3934.98	90	20.31	107.40		
	3740.01 ~ 3939.99	80	20.28	106.66		
	3735.02 ~ 3944.98	70	20.26	106.17		
	3730.02 ~ 3949.98	60	20.30	107.15		
	3725.01 ~ 3954.99	50	<b>20.32</b>	<b>107.65</b>	<b>25.71</b>	<b>372.20</b>
	3720.02 ~ 3960.0	40	20.29	106.91		
	3715.02 ~ 3964.98	30	20.27	106.41		
	3710.01 ~ 3969.99	20	20.23	105.44		
	3707.52 ~ 3972.48	15	20.27	106.41		
3705.00 ~ 3975.00	10	20.29	106.91			

**NR Band n77(3700-3980 MHz, SRS3, ANT D)**

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77_ANT D	3750.00 ~ 3930.00	100	22.50	177.83		
	3745.02 ~ 3934.98	90	22.46	176.20		
	3740.01 ~ 3939.99	80	22.51	178.24		
	3735.02 ~ 3944.98	70	22.50	177.83		
	3730.02 ~ 3949.98	60	<b>22.52</b>	<b>178.65</b>	<b>25.82</b>	<b>381.76</b>
	3725.01 ~ 3954.99	50	22.50	177.83		
	3720.02 ~ 3960.0	40	22.51	178.24		
	3715.02 ~ 3964.98	30	22.47	176.60		
	3710.01 ~ 3969.99	20	22.49	177.42		
	3707.52 ~ 3972.48	15	22.47	176.60		
3705.00 ~ 3975.00	10	<b>22.52</b>	<b>178.65</b>			

### 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

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

Frequency (MHz)	Peak Gain (dBi/dBd)
LTE Band 4 / LTE Band 66 / NR Band n66 1710 - 1780 MHz	-4.6 (ANT A)
	-3.8 (ANT F)
LTE Band 38, 41 / NR Band n38 2496 - 2690 MHz	-5.0 (ANT B)
NR Band n41 2496 - 2690 MHz	-5.0 (ANT F)
	-5.0 (ANT B)_SRS1
	-10.4 (ANT E)_SRS2
	-10.3 (ANT D)_SRS3
LTE Band 12 699 - 716 MHz	-7.3 (ANT A)
LTE Band 13 777 - 787 MHz	-7.1 (ANT A)
NR Band n77 3450-3550 MHz	-5.0 (ANT F)
	-6.7 (ANT C)
	-7.0 (ANT I)
	-6.7 (ANT D)
NR Band n77 3700-3980 MHz	-5.0 (ANT F)
	-6.7 (ANT C)
	-7.0 (ANT I)
	-6.7 (ANT D)

## 5.4. WORST-CASE ORIENTATION

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

- UMTS REL 99/HSDPA

For LTE Bands the worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM, 64QAM and 256QAM modulations. It was found QPSK and 16QAM results were worst case.

For 5G NR 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 both NSA and SA Mode. Output power measurements were measured on NSA/SA/AS(Antenna Switching)/PS(Path Switching) Mode.

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

BAND	NSA or SA or SRS	Antenna
n41	SA	F
	SRS1	B
	SRS2	E
	SRS3	D
n77	SA	F
	SRS1	C
	SRS2	L
	SRS3	D

This device supports AS (Antenna Switching) and PS (Path Switching) Mode.  
 So the test case is as below.

Test Item	Test case antenna & port
Conducted output power	All
RF port test	Worst case
e.r.p	All
Radiated Spurious Emissions	All

As for the conducted test, 'Main ANT' is the same or higher than 'Sub ANT', so we tested with 'Main ANT'.

Band	Main antenna	Target power (dBm)	Sub antenna	Target power (dBm)
WCDMA B4	<u>A</u>	<u>24.0</u>		
LTE B12	<u>A</u>	<u>24.5</u>		
LTE B13	<u>A</u>	<u>24.5</u>		
LTE B41 (PC2)	<u>B</u>	<u>26.0</u>		
LTE B66	<u>A</u>	<u>23.5</u>	F	23.5
NR n41	<u>F</u>	<u>25.0</u>	SRS 1, 2, 3	-
NR n66	<u>A</u>	<u>24.5</u>	F	24.0
NR n77	<u>F</u>	<u>25.5</u>	SRS 1, 2, 3	-

For LTE anchor, the band with highest output power was chosen among the possible combinations with NR Bands.

NR Band	LTE Band
41	4, <u>12</u> , 66
66	5, <u>12</u> , 13
77	2, 5, <u>12</u> , 13, 25, 66

**LTE Band 4 (ANT A) (ANT F)**

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

**LTE Band 17 (ANT A)**

LTE Band 17 (Frequency range: 704-716 MHz) is covered by LTE Band 12 (Frequency range: 699-716 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

**LTE Band 41 (PC3) (ANT B)**

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

● Conducted Spurious Emission (ANT A)

Highest conducted output power setting for each bands				
LTE Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
12	704.0	10	1	25
	707.5		1	25
	711.0		1	25
13	782.0	10	1	0
66	1710.7	1.4	1	3
	1745.0		1	5
	1779.3		1	0
NR Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
66	1717.5	15	1	1
	1745.0		1	1
	1772.5		1	1

● Conducted Spurious Emission (ANT B)

Highest conducted output power setting for each bands				
LTE Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
41(PC2)	2503.5	15	1	37
	2593.0		1	37
	2682.5		1	0

● Conducted Spurious Emission (ANT F)

Highest conducted output power setting for each bands				
NR Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
41	2546.01	100	1	271
	2592.99		1	137
	2640.00		1	137
77 (3450-3550 MHz)	3499.98	100	1	1
77 (3700-3980 MHz)	3750.00	100	1	271
	3840.00		1	1
	3930.00		1	271



● Radiated Spurious Emission (ANT A)

Highest erp & eirp setting for each bands				
LTE Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
12	699.7	1.4	1	0
	707.5		1	0
	715.3		1	3
13	779.5	5	1	12
	782.0		1	12
	784.5		1	12
66	1720.0	20	1	0
	1745.0		1	0
	1770.0		1	0
NR Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
66	1717.5	15	1	1
	1745.0		1	1
	1772.5		1	1

● Radiated Spurious Emission (ANT B)

Highest erp & eirp setting for each bands				
LTE Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
41(PC2)	2498.5	5	1	24
	2593.0		1	0
	2687.5		1	0

● Radiated Spurious Emission (ANT F)

Highest erp & eirp setting for each bands				
LTE Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
66	1720.0	20	1	49
	1745.0		1	49
	1770.0		1	49
Highest erp & eirp setting for each bands				
NR Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
41	2511.00	30	1	76
	2592.99		1	39
	2675.00		1	76
66	1715.00	10	1	26
	1745.00		1	26
	1775.00		1	26
77 (3450-3550 MHz)	3499.98	100	1	1
77 (3700-3980 MHz)	3750.00	100	1	271
	3840.00		1	1
	3930.00		1	271

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

Band	ANT	ERP/EIRP			RSE		
		X	Y	Z	X	Y	Z
WCDMA B4	A	O	-	-	O	-	-
LTE B12	A	-	-	O	-	-	O
LTE B13	A	-	-	O	-	-	O
LTE B41(PC2)	B	O	-	-	O	-	-
LTE B66	A	O	-	-	-	-	O
	F	O	-	-	O	-	-
NR n41(PC2)	F	O	-	-	O	-	-
	B (SRS1)	O	-	-	-	-	O
	E (SRS2)	O	-	-	-	-	O
	D (SRS3)	-	O	-	O	-	-
NR n66	A	O	-	-	-	O	-
	F	O	-	-	-	O	-
NR n77(PC2) (3450 - 3550 MHz)	F	O	-	-	O	-	-
	C (SRS1)	O	-	-	O	-	-
	L (SRS2)	-	-	O	-	-	O
	D (SRS3)	-	O	-	-	O	-
NR n77(PC2) (3700 - 3980 MHz)	F	-	-	O	-	O	-
	C (SRS1)	-	O	-	-	-	O
	L (SRS2)	-	-	O	-	-	O
	D (SRS3)	-	-	O	-	-	O

Note : For the radiated testing, the EUT attached with travel adapter for the worst case condition. The EUT is continuously communicated with the call box during the tests.

## 5.5. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacture	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37T53J8459SEA	N/A
Data Cable	SAMSUNG	EP-DN980	GH39-02111A	N/A

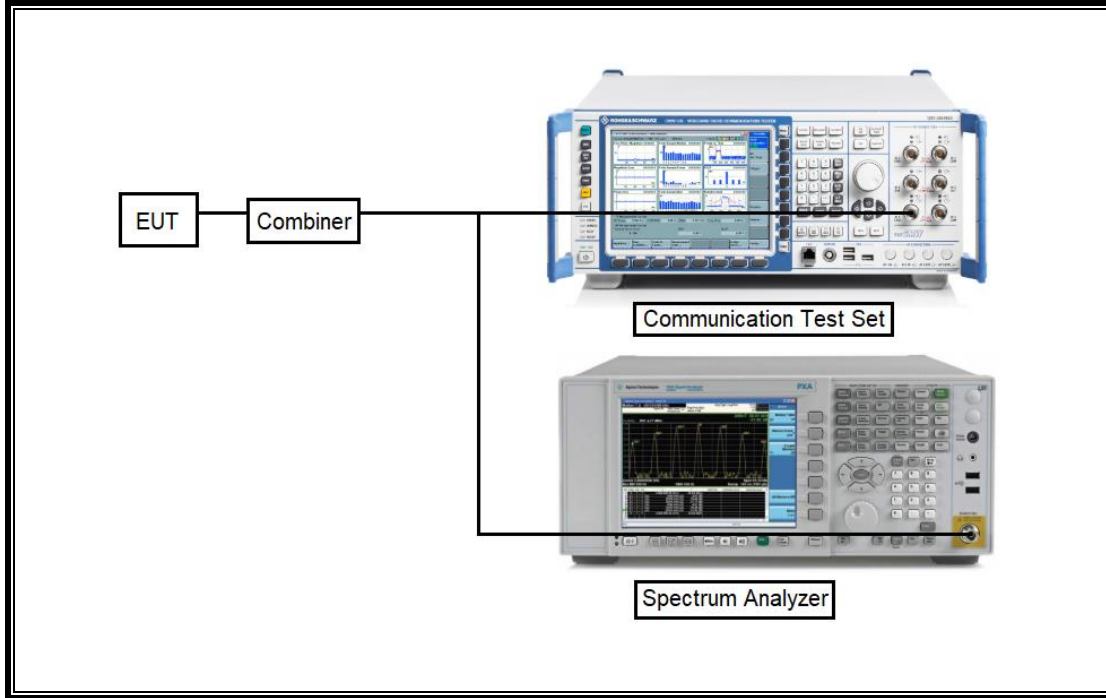
### I/O CABLE

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

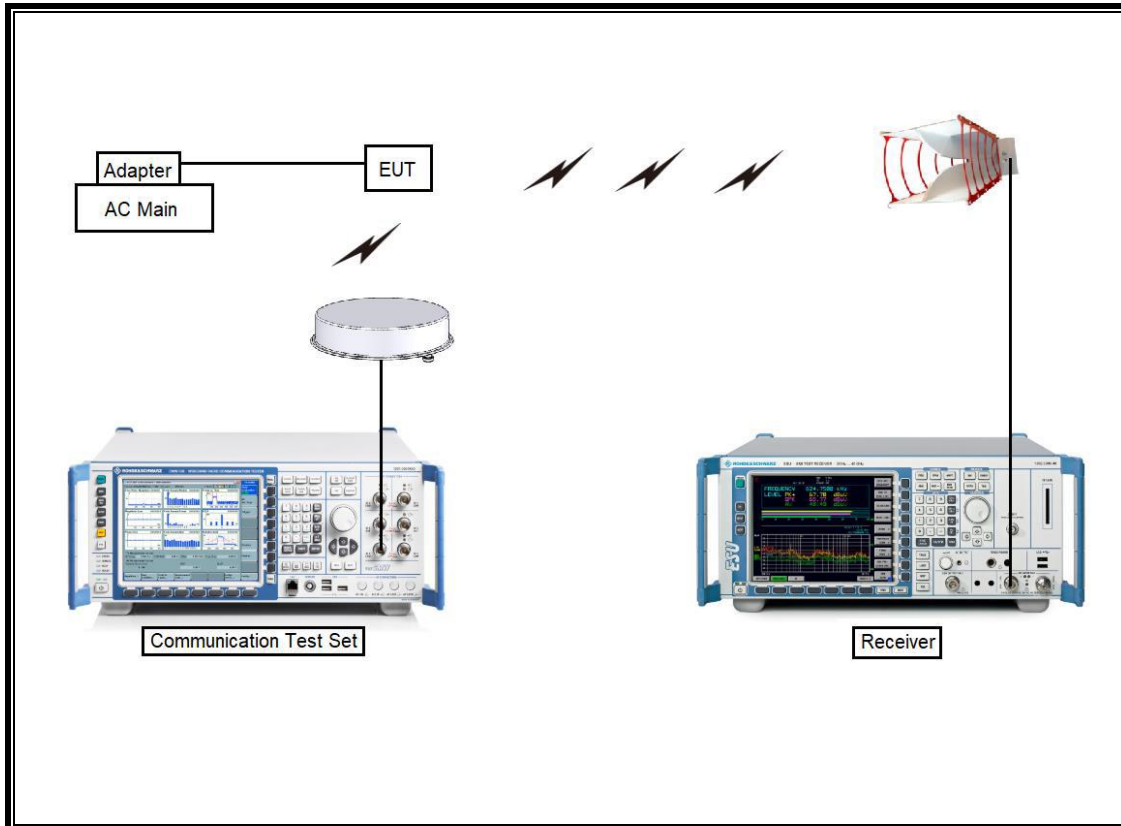
### TEST SETUP

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

**SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)**



**SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)**



## 6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Tuned Dipole 400~1000 MHz	ETS	3121D DB4	00164753	2025-01-17
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	110367-0003	N/A
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	80108-0004	N/A
Antenna, Horn, 40 GHz	ETS	3116C	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	CMV500	169796	2024-01-05
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	MY60070693	2024-01-09
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	2024-01-09
Power Splitter	MINI-CIRCUITS	WA1534	UL004	2024-01-09
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY57510655	2024-01-09
UL Software				
Description	Manufacturer	Model	Version	
Antenna port test software	UL	CLT	Ver 3.4	
Radiated software	UL	UL EMC	Ver 9.5	
Antenna port test software (5G NR FR1)	UL	UL iM	Ver 1.06	

## 7. SUMMARY TABLE

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

## 8. CONDUCTED RESULTS

### 8.1. CONDUCTED OUTPUT POWER

#### Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v03r01;

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

#### NOTE

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

#### RESULTS

See the following pages.

### 8.1.1. CONDUCTED AVERAGE OUTPUT POWER

#### WCDMA B4 (ANT A)

Mode		UL Ch No.	Freq. (MHz)	Maximum Average Power (dBm)		
				Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	23.02	N/A	24.0
		1413	1732.6	22.76		
		1513	1752.6	22.84		
HSDPA	Subtest 1	1312	1712.4	21.99	0	22.0
		1413	1732.6	21.76		
		1513	1752.6	21.80		
	Subtest 2	1312	1712.4	20.97	0	22.0
		1413	1732.6	20.74		
		1513	1752.6	20.78		
	Subtest 3	1312	1712.4	21.01	0.5	21.5
		1413	1732.6	20.80		
		1513	1752.6	20.83		
	Subtest 4	1312	1712.4	19.97	0.5	21.5
		1413	1732.6	19.70		
		1513	1752.6	19.74		
HSUPA	Subtest 1	1312	1712.4	20.95	0	22.0
		1413	1732.6	20.69		
		1513	1752.6	20.71		
	Subtest 2	1312	1712.4	18.90	2	20.0
		1413	1732.6	18.63		
		1513	1752.6	18.67		
	Subtest 3	1312	1712.4	19.93	1	21.0
		1413	1732.6	19.63		
		1513	1752.6	19.68		
	Subtest 4	1312	1712.4	18.89	2	20.0
		1413	1732.6	18.62		
		1513	1752.6	18.65		
	Subtest 5	1312	1712.4	22.00	0	22.0
		1413	1732.6	21.74		
		1513	1752.6	21.75		
DC-HSDPA	Subtest 1	1312	1712.4	21.87	0	22.0
		1413	1732.6	21.71		
		1513	1752.6	21.76		
	Subtest 2	1312	1712.4	20.93	0	22.0
		1413	1732.6	20.70		
		1513	1752.6	20.75		
	Subtest 3	1312	1712.4	19.93	0.5	21.5
		1413	1732.6	19.67		
		1513	1752.6	19.73		
	Subtest 4	1312	1712.4	19.93	0.5	21.5
		1413	1732.6	19.71		
		1513	1752.6	19.77		



**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 MHz	707.5 MHz	711 MHz			
10 MHz	QPSK	1	0	23.90	<b>24.11</b>	24.01	0.0	24.5	
		1	25	23.83	23.97	23.54	0.0	24.5	
		1	49	23.82	24.00	23.76	0.0	24.5	
		25	0	22.89	<b>23.05</b>	22.96	1.0	23.5	
		25	12	22.88	23.04	22.90	1.0	23.5	
		25	25	22.82	23.04	22.84	1.0	23.5	
	16QAM	50	0	22.87	23.06	22.92	1.0	23.5	
		1	0	22.99	23.26	22.99	1.0	23.5	
		1	25	23.01	23.12	22.84	1.0	23.5	
		1	49	22.85	23.11	22.81	1.0	23.5	
		25	0	21.85	22.07	21.97	2.0	22.5	
		25	12	21.83	22.06	21.94	2.0	22.5	
	64QAM	25	25	21.82	22.06	21.89	2.0	22.5	
		50	0	21.84	22.05	21.97	2.0	22.5	
		1	0	21.98	22.10	22.09	2.0	22.5	
		1	25	22.03	22.11	22.14	2.0	22.5	
		1	49	21.95	21.99	22.05	2.0	22.5	
		25	0	20.81	21.09	21.01	3.0	21.5	
	256QAM	25	12	20.78	21.08	21.00	3.0	21.5	
		25	25	20.77	21.04	20.96	3.0	21.5	
		50	0	20.80	21.05	21.00	3.0	21.5	
		1	0	21.16	21.14	21.07	3.0	21.5	
		1	25	21.06	21.12	21.00	3.0	21.5	
		1	49	21.02	21.01	20.95	3.0	21.5	
	5 MHz	QPSK	25	0	18.90	19.16	19.02	5.0	19.5
			25	12	18.87	19.13	18.98	5.0	19.5
			25	25	18.81	19.07	18.92	5.0	19.5
			50	0	18.82	19.02	18.94	5.0	19.5
1			0	23.89	23.92	23.89	0.0	24.5	
1			12	23.88	23.93	23.71	0.0	24.5	
16QAM		1	24	23.83	23.89	23.88	0.0	24.5	
		12	0	22.87	22.94	22.90	1.0	23.5	
		12	7	22.86	22.92	22.89	1.0	23.5	
		12	13	22.83	22.91	22.87	1.0	23.5	
		25	0	22.86	22.92	22.87	1.0	23.5	
		1	0	23.07	22.95	23.13	1.0	23.5	
64QAM		1	12	22.89	22.91	23.01	1.0	23.5	
		1	24	22.98	22.98	23.04	1.0	23.5	
		12	0	21.81	21.91	21.86	2.0	22.5	
		12	7	21.77	21.90	21.85	2.0	22.5	
		12	13	21.75	21.89	21.81	2.0	22.5	
		25	0	21.83	21.96	21.83	2.0	22.5	
256QAM		1	0	22.16	22.28	21.99	2.0	22.5	
		1	12	22.04	22.12	21.90	2.0	22.5	
		1	24	22.10	22.21	21.92	2.0	22.5	
		12	0	20.93	20.95	20.97	3.0	21.5	
		12	7	20.91	20.97	20.94	3.0	21.5	
		12	13	20.85	20.98	20.95	3.0	21.5	
256QAM		25	0	20.92	21.04	20.93	3.0	21.5	
		1	0	20.98	21.23	20.91	3.0	21.5	
		1	12	20.81	21.13	20.81	3.0	21.5	
		1	24	20.87	21.23	20.89	3.0	21.5	
	12	0	18.98	19.08	18.96	5.0	19.5		
	12	7	18.96	19.10	18.98	5.0	19.5		
256QAM	12	13	18.94	19.06	18.98	5.0	19.5		
	25	0	19.03	18.99	19.00	5.0	19.5		

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23025	23095	23165		
				700.5 MHz	707.5 MHz	714.5 MHz		
3 MHz	QPSK	1	0	23.90	24.03	23.91	0.0	24.5
		1	8	23.81	23.78	23.87	0.0	24.5
		1	14	23.81	24.00	23.94	0.0	24.5
		8	0	22.87	22.92	22.90	1.0	23.5
		8	4	22.87	22.91	22.89	1.0	23.5
		8	7	22.87	22.90	22.89	1.0	23.5
	16QAM	15	0	22.88	22.92	22.84	1.0	23.5
		1	0	23.04	22.99	22.97	1.0	23.5
		1	8	22.93	22.94	22.95	1.0	23.5
		1	14	23.00	22.92	22.88	1.0	23.5
		8	0	22.01	22.04	21.87	2.0	22.5
		8	4	21.98	21.96	21.80	2.0	22.5
	64QAM	8	7	21.98	21.98	21.84	2.0	22.5
		15	0	21.88	21.93	21.87	2.0	22.5
		1	0	21.92	22.34	21.83	2.0	22.5
		1	8	21.81	22.25	21.76	2.0	22.5
		1	14	21.74	22.34	21.84	2.0	22.5
		8	0	20.99	21.04	20.91	3.0	21.5
	256QAM	8	4	20.94	21.00	20.93	3.0	21.5
		8	7	20.99	21.03	20.96	3.0	21.5
		15	0	20.95	20.91	20.93	3.0	21.5
		1	0	20.98	21.36	20.93	3.0	21.5
		1	8	20.88	21.28	20.92	3.0	21.5
		1	14	20.94	21.33	20.89	3.0	21.5
1.4 MHz	QPSK	8	0	18.96	19.11	18.99	5.0	19.5
		8	4	18.97	19.10	18.96	5.0	19.5
		8	7	18.90	19.11	19.05	5.0	19.5
		15	0	19.06	19.04	19.03	5.0	19.5
		1	0	23.98	24.02	24.00	0.0	24.5
		1	3	23.82	23.89	24.02	0.0	24.5
	16QAM	1	5	23.92	24.00	23.91	0.0	24.5
		3	0	23.90	23.96	23.91	0.0	24.5
		3	1	23.84	23.95	23.86	0.0	24.5
		3	3	23.87	23.81	23.79	0.0	24.5
		6	0	22.86	22.99	22.88	1.0	23.5
		1	0	22.82	23.01	22.79	1.0	23.5
	64QAM	1	3	22.86	23.03	22.96	1.0	23.5
		1	5	22.83	23.08	22.84	1.0	23.5
		3	0	22.94	22.90	22.92	1.0	23.5
		3	1	22.87	22.93	22.88	1.0	23.5
		3	3	22.79	22.87	22.89	1.0	23.5
		6	0	21.93	22.07	21.88	2.0	22.5
	256QAM	1	0	22.17	21.98	21.86	2.0	22.5
		1	3	22.07	21.75	22.02	2.0	22.5
		1	5	22.10	21.89	21.89	2.0	22.5
		3	0	21.97	22.18	21.81	2.0	22.5
		3	1	21.90	22.13	21.71	2.0	22.5
		3	3	21.88	22.14	21.72	2.0	22.5
QPSK	6	0	21.00	21.15	20.88	3.0	21.5	
	1	0	20.89	21.03	20.98	3.0	21.5	
	1	3	20.98	21.12	20.86	3.0	21.5	
	1	5	20.90	21.00	20.92	3.0	21.5	
	3	0	21.05	20.88	20.92	3.0	21.5	
	3	1	20.96	20.85	20.91	3.0	21.5	
16QAM	3	3	20.89	20.86	20.83	3.0	21.5	
	6	0	18.92	18.95	18.85	5.0	19.5	

**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 MHz				
10 MHz	QPSK	1	0		23.87		0.0	24.5	
		1	25		23.86		0.0	24.5	
		1	49		23.76		0.0	24.5	
		25	0		22.82		1.0	23.5	
		25	12		22.80		1.0	23.5	
		25	25		22.78		1.0	23.5	
	16QAM	50	0		22.81		1.0	23.5	
		1	0		22.95		1.0	23.5	
		1	25		22.79		1.0	23.5	
		1	49		22.88		1.0	23.5	
		25	0		21.86		2.0	22.5	
		25	12		21.82		2.0	22.5	
	64QAM	25	25		21.79		2.0	22.5	
		50	0		21.85		2.0	22.5	
		1	0		21.85		2.0	22.5	
		1	25		21.80		2.0	22.5	
		1	49		21.74		2.0	22.5	
		25	0		20.84		3.0	21.5	
	256QAM	25	12		20.82		3.0	21.5	
		25	25		20.78		3.0	21.5	
50		0		20.80		3.0	21.5		
1		0		20.85		3.0	21.5		
1		25		20.83		3.0	21.5		
1		49		20.75		3.0	21.5		
5 MHz	QPSK	25	0		18.89		5.0	19.5	
		25	12		18.87		5.0	19.5	
		25	25		18.82		5.0	19.5	
		50	0		18.77		5.0	19.5	
		1	0		18.77		5.0	19.5	
	16QAM	QPSK	1	0	23.51	23.73	23.50	0.0	24.5
			1	12	23.53	23.75	23.51	0.0	24.5
			1	24	23.48	23.74	23.50	0.0	24.5
			12	0	22.50	22.70	22.49	1.0	23.5
			12	7	22.50	22.67	22.50	1.0	23.5
16QAM		12	13	22.48	22.68	22.48	1.0	23.5	
		25	0	22.49	22.70	22.48	1.0	23.5	
		1	0	22.75	22.89	22.74	1.0	23.5	
		1	12	22.67	22.82	22.75	1.0	23.5	
		1	24	22.69	22.81	22.72	1.0	23.5	
64QAM	16QAM	12	0	21.54	21.62	21.56	2.0	22.5	
		12	7	21.51	21.62	21.56	2.0	22.5	
		12	13	21.52	21.62	21.56	2.0	22.5	
		25	0	21.46	21.70	21.51	2.0	22.5	
		1	0	21.87	22.01	22.07	2.0	22.5	
	64QAM	1	12	21.80	21.96	21.97	2.0	22.5	
		1	24	21.87	21.94	21.92	2.0	22.5	
		12	0	20.65	20.73	20.60	3.0	21.5	
		12	7	20.64	20.71	20.60	3.0	21.5	
		12	13	20.63	20.69	20.55	3.0	21.5	
256QAM	25	0	20.65	20.73	20.63	3.0	21.5		
	1	0	20.73	20.84	21.01	3.0	21.5		
	1	12	20.61	20.74	20.88	3.0	21.5		
	1	24	20.69	20.79	20.94	3.0	21.5		
	12	0	18.71	18.79	18.68	5.0	19.5		
	12	7	18.72	18.79	18.69	5.0	19.5		
256QAM	12	13	18.66	18.79	18.64	5.0	19.5		
	25	0	18.66	18.84	18.61	5.0	19.5		

**LTE Band 41 (PC2) (ANT B)**

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				39750	40620	41490		
				2506 MHz	2593 MHz	2680 MHz		
20 MHz	QPSK	1	0	24.68	24.96	24.81	0.0	26.0
		1	49	24.83	25.04	24.87	0.0	26.0
		1	99	24.63	24.95	24.76	0.0	26.0
		50	0	23.51	23.85	23.68	1.0	25.0
		50	24	23.50	23.86	23.71	1.0	25.0
		50	50	23.49	23.83	23.70	1.0	25.0
	100	0	23.50	23.86	23.67	1.0	25.0	
	16QAM	1	0	23.82	24.13	24.01	1.0	25.0
		1	49	23.41	23.87	23.38	1.0	25.0
		1	99	23.82	24.07	23.97	1.0	25.0
		50	0	23.02	23.35	23.25	2.0	24.0
		50	24	23.09	23.39	23.18	2.0	24.0
		50	50	23.09	23.37	23.17	2.0	24.0
	100	0	23.02	23.40	23.21	2.0	24.0	
	64QAM	1	0	22.93	23.64	23.13	2.0	24.0
		1	49	22.08	23.34	22.78	2.0	24.0
		1	99	22.91	23.61	22.96	2.0	24.0
		50	0	22.55	22.93	22.71	3.0	23.0
		50	24	22.55	22.87	22.74	3.0	23.0
		50	50	22.52	22.90	22.72	3.0	23.0
	100	0	22.54	22.87	22.75	3.0	23.0	
	256QAM	1	0	22.37	22.82	22.94	3.0	23.0
		1	49	22.57	22.74	22.99	3.0	23.0
		1	99	22.41	22.86	22.88	3.0	23.0
50		0	20.59	20.86	20.73	5.0	21.0	
50		24	20.52	20.84	20.71	5.0	21.0	
50		50	20.54	20.86	20.77	5.0	21.0	
100	0	20.53	20.86	20.76	5.0	21.0		
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				39725	40620	41515		
				2503.5 MHz	2593 MHz	2682.5 MHz		
				15 MHz	QPSK	1	0	24.53
1	37	24.87	25.28			23.83	0.0	26.0
1	74	24.49	24.91			24.75	0.0	26.0
36	0	23.49	23.89			23.72	1.0	25.0
36	20	23.42	23.92			23.75	1.0	25.0
36	39	23.43	23.89			23.67	1.0	25.0
75	0	23.43	23.95		23.72	1.0	25.0	
16QAM	1	0	23.91		24.43	23.85	1.0	25.0
	1	37	24.26		24.46	23.98	1.0	25.0
	1	74	23.86		24.37	23.72	1.0	25.0
	36	0	22.95		23.38	23.22	2.0	24.0
	36	20	22.95		23.40	23.19	2.0	24.0
	36	39	22.97		23.40	23.22	2.0	24.0
75	0	22.93	23.41		23.18	2.0	24.0	
64QAM	1	0	23.06		23.52	23.42	2.0	24.0
	1	37	23.38		23.75	23.66	2.0	24.0
	1	74	23.11		23.55	23.29	2.0	24.0
	36	0	22.46		22.91	22.73	3.0	23.0
	36	20	22.47		22.88	22.81	3.0	23.0
	36	39	22.47		22.91	22.73	3.0	23.0
75	0	22.44	22.89		22.72	3.0	23.0	
256QAM	1	0	22.53		22.82	22.97	3.0	23.0
	1	37	22.62		22.87	22.96	3.0	23.0
	1	74	22.55		22.80	22.93	3.0	23.0
	36	0	20.45	20.84	20.70	5.0	21.0	
	36	20	20.45	20.81	20.68	5.0	21.0	
	36	39	20.42	20.78	20.65	5.0	21.0	
75	0	20.43	20.81	20.76	5.0	21.0		

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	
				39700	40620	41540			
				2501 MHz	2593 MHz	2685 MHz			
10 MHz	QPSK	1	0	24.80	24.83	23.71	0.0	26.0	
		1	25	24.89	24.70	25.03	0.0	26.0	
		1	49	24.66	24.89	24.79	0.0	26.0	
		25	0	23.67	23.88	23.69	1.0	25.0	
		25	12	23.64	23.84	23.75	1.0	25.0	
		25	25	23.67	23.87	23.74	1.0	25.0	
	16QAM	50	0	23.67	23.89	23.69	1.0	25.0	
		1	0	24.10	24.03	23.57	1.0	25.0	
		1	25	24.00	23.59	23.55	1.0	25.0	
		1	49	24.13	24.09	23.58	1.0	25.0	
		25	0	23.13	23.39	23.11	2.0	24.0	
		25	12	23.17	23.39	23.08	2.0	24.0	
	64QAM	25	25	23.18	23.37	23.08	2.0	24.0	
		50	0	23.19	23.35	23.14	2.0	24.0	
		1	0	23.34	23.30	23.20	2.0	24.0	
		1	25	23.54	23.50	23.33	2.0	24.0	
		1	49	23.36	23.27	23.11	2.0	24.0	
		25	0	22.65	22.89	22.70	3.0	23.0	
	256QAM	25	12	22.66	22.86	22.64	3.0	23.0	
		25	25	22.67	22.87	22.64	3.0	23.0	
		50	0	22.63	22.78	22.64	3.0	23.0	
		1	0	22.67	22.72	22.65	3.0	23.0	
		1	25	22.41	22.55	22.51	3.0	23.0	
		1	49	22.66	22.66	22.56	3.0	23.0	
	5 MHz	QPSK	25	0	20.67	20.84	20.68	5.0	21.0
			25	12	20.67	20.84	20.64	5.0	21.0
			25	25	20.66	20.83	20.65	5.0	21.0
			50	0	20.65	20.87	20.66	5.0	21.0
1			0	24.57	25.05	25.25	0.0	26.0	
1			12	24.37	24.77	25.08	0.0	26.0	
16QAM		1	24	24.59	24.83	25.21	0.0	26.0	
		12	0	23.55	23.80	24.16	1.0	25.0	
		12	7	23.56	23.82	24.14	1.0	25.0	
		12	13	23.54	23.84	24.13	1.0	25.0	
		25	0	23.53	23.84	24.07	1.0	25.0	
		1	0	23.72	24.18	24.21	1.0	25.0	
64QAM		1	12	23.94	24.25	24.46	1.0	25.0	
		1	24	23.70	24.26	24.23	1.0	25.0	
		12	0	23.03	23.43	23.65	2.0	24.0	
		12	7	23.01	23.42	23.65	2.0	24.0	
		12	13	23.06	23.41	23.67	2.0	24.0	
		25	0	22.96	23.29	23.53	2.0	24.0	
256QAM		1	0	23.16	23.29	23.80	2.0	24.0	
		1	12	23.02	23.50	23.71	2.0	24.0	
		1	24	23.29	23.22	23.64	2.0	24.0	
		12	0	22.42	22.77	22.93	3.0	23.0	
		12	7	22.42	22.73	22.92	3.0	23.0	
		12	13	22.46	22.77	22.94	3.0	23.0	
256QAM		25	0	22.55	22.74	22.70	3.0	23.0	
		1	0	22.67	22.83	22.92	3.0	23.0	
		1	12	22.96	22.80	22.93	3.0	23.0	
		1	24	22.72	22.92	22.98	3.0	23.0	
	12	0	20.53	20.81	20.79	5.0	21.0		
	12	7	20.49	20.77	20.80	5.0	21.0		
256QAM	12	13	20.53	20.79	20.72	5.0	21.0		
	25	0	20.47	20.71	20.66	5.0	21.0		

**LTE Band 66 (ANT A)**

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				132072	132322	132572		
				1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	22.63	22.37	22.35	0.0	23.5
		1	49	22.46	21.90	22.38	0.0	23.5
		1	99	22.31	22.19	22.13	0.0	23.5
		50	0	21.46	21.32	21.25	1.0	22.5
		50	24	21.42	21.27	21.19	1.0	22.5
		50	50	21.34	21.27	21.14	1.0	22.5
	100	0	21.38	21.28	21.19	1.0	22.5	
	16QAM	1	0	21.87	21.62	21.65	1.0	22.5
		1	49	21.69	21.51	21.39	1.0	22.5
		1	99	21.71	21.50	21.44	1.0	22.5
		50	0	20.44	20.36	20.28	2.0	21.5
		50	24	20.43	20.35	20.22	2.0	21.5
		50	50	20.35	20.30	20.20	2.0	21.5
	100	0	20.43	20.37	20.26	2.0	21.5	
	64QAM	1	0	20.90	20.60	20.51	2.0	21.5
		1	49	20.98	20.53	20.45	2.0	21.5
		1	99	20.72	20.47	20.41	2.0	21.5
		50	0	19.57	20.50	20.42	3.0	20.5
		50	24	19.55	20.49	20.46	3.0	20.5
		50	50	19.54	20.49	20.42	3.0	20.5
	100	0	19.53	20.50	20.44	3.0	20.5	
	256QAM	1	0	19.84	19.69	19.57	3.0	20.5
		1	49	19.73	19.82	19.68	3.0	20.5
		1	99	19.75	19.59	19.38	3.0	20.5
		50	0	17.50	17.45	17.34	5.0	18.5
		50	24	17.47	17.40	17.32	5.0	18.5
		50	50	17.43	17.39	17.29	5.0	18.5
	100	0	17.46	17.42	17.33	5.0	18.5	
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132047	132322	132597		
				1717.5 MHz	1745 MHz	1772.5 MHz		
				15 MHz	QPSK	1	0	22.71
1	37	22.65	22.70			22.57	0.0	23.5
1	74	22.62	22.57			22.41	0.0	23.5
36	0	21.74	21.63			21.52	1.0	22.5
36	20	21.71	21.61			21.47	1.0	22.5
36	39	21.68	21.64			21.49	1.0	22.5
75	0	21.71	21.66		21.51	1.0	22.5	
16QAM	1	0	21.74		21.82	21.59	1.0	22.5
	1	37	21.79		21.87	21.62	1.0	22.5
	1	74	21.67		21.74	21.49	1.0	22.5
	36	0	20.73		20.68	20.54	2.0	21.5
	36	20	20.71		20.67	20.52	2.0	21.5
	36	39	20.69		20.66	20.53	2.0	21.5
75	0	20.69	20.69		20.54	2.0	21.5	
64QAM	1	0	20.77		21.06	20.83	2.0	21.5
	1	37	20.78		21.03	20.78	2.0	21.5
	1	74	20.62		20.93	20.73	2.0	21.5
	36	0	19.92		19.84	19.63	3.0	20.5
	36	20	19.97		19.84	19.60	3.0	20.5
	36	39	19.92		19.80	19.61	3.0	20.5
75	0	19.88	19.84		19.69	3.0	20.5	
256QAM	1	0	19.99		19.97	19.86	3.0	20.5
	1	37	19.86		19.83	19.85	3.0	20.5
	1	74	19.88		19.85	19.72	3.0	20.5
	36	0	17.86		17.82	17.60	5.0	18.5
	36	20	17.83		17.81	17.59	5.0	18.5
	36	39	17.81		17.79	17.60	5.0	18.5
75	0	17.81	17.80		17.64	5.0	18.5	

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	
				132022	132322	132622			
				1715 MHz	1745 MHz	1775 MHz			
10 MHz	QPSK	1	0	22.77	22.73	22.51	0.0	23.5	
		1	25	22.81	22.63	22.30	0.0	23.5	
		1	49	22.73	22.62	22.44	0.0	23.5	
		25	0	21.75	21.69	21.51	1.0	22.5	
		25	12	21.74	21.66	21.50	1.0	22.5	
		25	25	21.72	21.65	21.50	1.0	22.5	
	16QAM	50	0	21.75	21.67	21.51	1.0	22.5	
		1	0	21.85	21.82	21.63	1.0	22.5	
		1	25	21.77	21.69	21.40	1.0	22.5	
		1	49	21.76	21.80	21.53	1.0	22.5	
		25	0	20.81	20.75	20.62	2.0	21.5	
		25	12	20.80	20.73	20.59	2.0	21.5	
	64QAM	25	25	20.80	20.71	20.58	2.0	21.5	
		50	0	20.82	20.74	20.56	2.0	21.5	
		1	0	20.87	20.96	20.77	2.0	21.5	
		1	25	20.62	20.75	20.90	2.0	21.5	
		1	49	20.83	20.96	20.63	2.0	21.5	
		25	0	19.94	19.85	19.75	3.0	20.5	
	256QAM	25	12	19.95	19.85	19.74	3.0	20.5	
		25	25	19.93	19.88	19.72	3.0	20.5	
		50	0	19.97	19.88	19.71	3.0	20.5	
		1	0	19.92	19.98	19.67	3.0	20.5	
		1	25	20.09	20.13	19.45	3.0	20.5	
		1	49	19.84	19.93	19.57	3.0	20.5	
	5 MHz	QPSK	25	0	17.97	17.90	17.80	5.0	18.5
			25	12	17.95	17.86	17.77	5.0	18.5
			25	25	17.93	17.85	17.75	5.0	18.5
			50	0	17.89	17.82	17.69	5.0	18.5
1			0	22.71	22.71	22.53	0.0	23.5	
1			12	22.77	22.76	22.56	0.0	23.5	
16QAM		1	24	22.77	22.71	22.51	0.0	23.5	
		12	0	21.81	21.75	21.56	1.0	22.5	
		12	7	21.82	21.76	21.57	1.0	22.5	
		12	13	21.81	21.74	21.56	1.0	22.5	
		25	0	21.84	21.76	21.58	1.0	22.5	
		1	0	21.95	21.84	21.71	1.0	22.5	
64QAM		1	12	21.98	21.88	21.84	1.0	22.5	
		1	24	21.90	21.78	21.72	1.0	22.5	
		12	0	20.88	20.77	20.57	2.0	21.5	
		12	7	20.87	20.79	20.56	2.0	21.5	
		12	13	20.89	20.76	20.54	2.0	21.5	
		25	0	20.91	20.78	20.61	2.0	21.5	
256QAM		1	0	21.16	20.96	20.79	2.0	21.5	
		1	12	21.06	21.03	20.84	2.0	21.5	
		1	24	21.08	20.96	20.82	2.0	21.5	
		12	0	19.90	19.76	19.76	3.0	20.5	
		12	7	19.91	19.81	19.73	3.0	20.5	
		12	13	19.92	19.73	19.74	3.0	20.5	
QPSK		25	0	19.99	19.84	19.70	3.0	20.5	
		1	0	20.29	19.96	19.67	3.0	20.5	
		1	12	20.19	19.88	19.68	3.0	20.5	
		1	24	20.22	19.91	19.63	3.0	20.5	
	12	0	17.99	17.84	17.74	5.0	18.5		
	12	7	17.98	17.89	17.73	5.0	18.5		
16QAM	12	13	18.00	17.83	17.73	5.0	18.5		
	25	0	17.95	17.87	17.69	5.0	18.5		
	1	0	131997	132322	132647	MPR	Tune-up Limit		
	1712.5 MHz	1745 MHz	1777.5 MHz						
	1712.5 MHz	1745 MHz	1777.5 MHz						

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657		
				1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	22.84	22.64	22.58	0.0	23.5
		1	8	22.66	22.70	22.63	0.0	23.5
		1	14	22.88	22.57	22.57	0.0	23.5
		8	0	21.80	21.68	21.52	1.0	22.5
		8	4	21.80	21.68	21.52	1.0	22.5
		8	7	21.79	21.65	21.54	1.0	22.5
	16QAM	15	0	21.79	21.68	21.52	1.0	22.5
		1	0	21.87	21.99	21.56	1.0	22.5
		1	8	21.91	22.00	21.63	1.0	22.5
		1	14	21.78	22.01	21.46	1.0	22.5
		8	0	20.85	20.85	20.53	2.0	21.5
		8	4	20.86	20.80	20.48	2.0	21.5
	64QAM	8	7	20.89	20.83	20.53	2.0	21.5
		15	0	20.81	20.70	20.61	2.0	21.5
		1	0	21.35	20.80	20.68	2.0	21.5
		1	8	21.36	20.77	20.71	2.0	21.5
		1	14	21.35	20.67	20.65	2.0	21.5
		8	0	20.07	19.86	19.68	3.0	20.5
	256QAM	8	4	20.06	19.86	19.71	3.0	20.5
		8	7	20.11	19.84	19.73	3.0	20.5
		15	0	19.94	19.85	19.79	3.0	20.5
		1	0	20.17	19.86	19.84	3.0	20.5
		1	8	20.08	19.89	19.76	3.0	20.5
		1	14	20.15	19.80	19.77	3.0	20.5
1.4 MHz	QPSK	8	0	17.99	17.85	17.71	5.0	18.5
		8	4	18.02	17.89	17.72	5.0	18.5
		8	7	17.99	17.92	17.74	5.0	18.5
		15	0	18.02	17.96	17.79	5.0	18.5
		1	0	22.79	22.79	22.66	0.0	23.5
		1	3	22.89	22.59	22.54	0.0	23.5
	16QAM	1	5	22.79	22.79	22.59	0.0	23.5
		3	0	22.86	22.84	22.56	0.0	23.5
		3	1	22.83	22.76	22.48	0.0	23.5
		3	3	22.80	22.66	22.49	0.0	23.5
		6	0	21.80	21.73	21.46	1.0	22.5
		1	0	21.74	21.97	21.54	1.0	22.5
	64QAM	1	3	21.84	22.00	21.48	1.0	22.5
		1	5	21.80	22.03	21.59	1.0	22.5
		3	0	21.93	21.81	21.59	1.0	22.5
		3	1	21.88	21.71	21.50	1.0	22.5
		3	3	21.88	21.64	21.52	1.0	22.5
		6	0	20.85	20.73	20.55	2.0	21.5
	256QAM	1	0	21.23	20.74	20.47	2.0	21.5
		1	3	21.28	21.00	20.30	2.0	21.5
		1	5	21.14	20.82	20.42	2.0	21.5
		3	0	21.04	20.82	20.84	2.0	21.5
		3	1	20.97	20.79	20.73	2.0	21.5
		3	3	20.89	20.72	20.78	2.0	21.5
QPSK	6	0	19.86	19.82	19.67	3.0	20.5	
	1	0	19.85	19.80	19.85	3.0	20.5	
	1	3	20.02	19.71	19.97	3.0	20.5	
	1	5	19.83	19.75	19.83	3.0	20.5	
	3	0	19.90	19.94	19.69	3.0	20.5	
	3	1	19.81	19.88	19.58	3.0	20.5	
16QAM	3	3	19.69	19.72	19.48	3.0	20.5	
	6	0	17.8	17.7	17.7	5.0	18.5	



**LTE Band 66 (ANT F)**

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				132072	132322	132572		
				1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	22.44	22.45	22.18	0.0	23.5
		1	49	22.07	22.40	22.37	0.0	23.5
		1	99	22.32	22.32	22.15	0.0	23.5
		50	0	21.41	21.48	21.20	1.0	22.5
		50	24	21.40	21.35	21.18	1.0	22.5
		50	50	21.37	21.32	21.18	1.0	22.5
	100	0	21.38	21.36	21.20	1.0	22.5	
	16QAM	1	0	21.45	21.69	21.56	1.0	22.5
		1	49	21.14	21.55	21.56	1.0	22.5
		1	99	21.40	21.55	21.50	1.0	22.5
		50	0	20.40	20.38	20.23	2.0	21.5
		50	24	20.40	20.35	20.22	2.0	21.5
		50	50	20.37	20.35	20.22	2.0	21.5
	100	0	20.41	20.40	20.24	2.0	21.5	
	64QAM	1	0	20.80	20.60	20.78	2.0	21.5
		1	49	20.93	20.50	20.87	2.0	21.5
		1	99	20.71	20.46	20.64	2.0	21.5
		50	0	19.54	19.56	19.35	3.0	20.5
		50	24	19.54	19.54	19.36	3.0	20.5
		50	50	19.51	19.54	19.35	3.0	20.5
	100	0	19.54	19.53	19.33	3.0	20.5	
	256QAM	1	0	17.85	17.82	17.58	5.0	18.5
		1	49	17.62	17.92	17.77	5.0	18.5
		1	99	17.71	17.75	17.58	5.0	18.5
		50	0	17.45	17.47	17.31	5.0	18.5
		50	24	17.44	17.45	17.29	5.0	18.5
		50	50	17.41	17.46	17.31	5.0	18.5
	100	0	17.44	17.48	17.30	5.0	18.5	
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132047	132322	132597		
				1717.5 MHz	1745 MHz	1772.5 MHz		
				15 MHz	QPSK	1	0	22.49
1	37	22.24	22.47			22.55	0.0	23.5
1	74	22.41	22.34			22.46	0.0	23.5
36	0	21.46	21.41			21.43	1.0	22.5
36	20	21.46	21.41			21.43	1.0	22.5
36	39	21.46	21.39			21.44	1.0	22.5
75	0	21.43	21.42		21.43	1.0	22.5	
16QAM	1	0	21.64		21.76	21.85	1.0	22.5
	1	37	21.68		21.80	21.85	1.0	22.5
	1	74	21.57		21.66	21.81	1.0	22.5
	36	0	20.51		20.48	20.53	2.0	21.5
	36	20	20.45		20.46	20.52	2.0	21.5
	36	39	20.45		20.43	20.46	2.0	21.5
75	0	20.45	20.42		20.45	2.0	21.5	
64QAM	1	0	20.76		20.85	20.63	2.0	21.5
	1	37	20.34		20.81	20.63	2.0	21.5
	1	74	20.76		20.75	20.53	2.0	21.5
	36	0	19.56		19.65	19.70	3.0	20.5
	36	20	19.58		19.62	19.72	3.0	20.5
	36	39	19.56		19.63	19.70	3.0	20.5
75	0	19.64	19.58		19.62	3.0	20.5	
256QAM	1	0	17.77		17.71	17.70	5.0	18.5
	1	37	17.80		17.56	17.74	5.0	18.5
	1	74	17.71		17.64	17.66	5.0	18.5
	36	0	17.59		17.60	17.58	5.0	18.5
	36	20	17.55		17.59	17.58	5.0	18.5
	36	39	17.55		17.53	17.58	5.0	18.5
75	0	17.55	17.56		17.58	5.0	18.5	

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132022	132322	132622		
				1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	22.49	22.44	22.45	0.0	23.5
		1	25	22.51	22.50	22.32	0.0	23.5
		1	49	22.48	22.34	22.44	0.0	23.5
		25	0	21.49	21.41	21.47	1.0	22.5
		25	12	21.50	21.40	21.47	1.0	22.5
		25	25	21.46	21.37	21.46	1.0	22.5
	16QAM	50	0	21.50	21.40	21.47	1.0	22.5
		1	0	21.76	21.78	21.98	1.0	22.5
		1	25	21.89	21.91	21.83	1.0	22.5
		1	49	21.66	21.76	21.93	1.0	22.5
		25	0	20.58	20.49	20.55	2.0	21.5
		25	12	20.58	20.47	20.56	2.0	21.5
	64QAM	25	25	20.55	20.45	20.54	2.0	21.5
		50	0	20.55	20.44	20.51	2.0	21.5
		1	0	20.76	20.66	20.74	2.0	21.5
		1	25	20.91	20.71	20.72	2.0	21.5
		1	49	20.66	20.62	20.78	2.0	21.5
		25	0	19.69	19.62	19.71	3.0	20.5
	256QAM	25	12	19.67	19.59	19.72	3.0	20.5
		25	25	19.70	19.62	19.70	3.0	20.5
		50	0	19.70	19.63	19.72	3.0	20.5
		1	0	17.61	17.81	17.59	5.0	18.5
		1	25	17.73	17.83	17.63	5.0	18.5
		1	49	17.57	17.74	17.59	5.0	18.5
	5 MHz	QPSK	25	0	17.72	17.64	17.68	5.0
25			12	17.70	17.60	17.68	5.0	18.5
25			25	17.68	17.60	17.67	5.0	18.5
50			0	17.63	17.58	17.66	5.0	18.5
1			0	22.50	22.38	22.44	0.0	23.5
1			12	22.54	22.46	22.51	0.0	23.5
16QAM		1	24	22.53	22.37	22.45	0.0	23.5
		12	0	21.47	21.35	21.47	1.0	22.5
		12	7	21.50	21.36	21.51	1.0	22.5
		12	13	21.49	21.35	21.50	1.0	22.5
		25	0	21.52	21.37	21.50	1.0	22.5
		1	0	21.93	21.69	21.99	1.0	22.5
64QAM		1	12	22.05	21.70	22.02	1.0	22.5
		1	24	21.98	21.64	21.95	1.0	22.5
		12	0	20.53	20.44	20.58	2.0	21.5
		12	7	20.56	20.44	20.59	2.0	21.5
		12	13	20.53	20.45	20.59	2.0	21.5
		25	0	20.54	20.43	20.55	2.0	21.5
256QAM		1	0	21.20	20.73	20.77	2.0	21.5
		1	12	21.19	20.72	20.81	2.0	21.5
		1	24	21.09	20.71	20.77	2.0	21.5
		12	0	19.67	19.60	19.70	3.0	20.5
		12	7	19.71	19.60	19.73	3.0	20.5
		12	13	19.68	19.60	19.70	3.0	20.5
QPSK		25	0	19.70	19.60	19.69	3.0	20.5
	1	0	17.83	17.56	17.51	5.0	18.5	
	1	12	17.87	17.52	17.25	5.0	18.5	
	1	24	17.80	17.53	17.54	5.0	18.5	
	12	0	17.71	17.59	17.65	5.0	18.5	
	12	7	17.71	17.59	17.66	5.0	18.5	
16QAM	12	13	17.69	17.60	17.63	5.0	18.5	
	25	0	17.62	17.56	17.65	5.0	18.5	
	1	0	22.50	22.38	22.44	0.0	23.5	
	1	12	22.54	22.46	22.51	0.0	23.5	
	1	24	22.53	22.37	22.45	0.0	23.5	
	12	0	21.47	21.35	21.47	1.0	22.5	
64QAM	12	7	21.50	21.36	21.51	1.0	22.5	
	12	13	21.49	21.35	21.50	1.0	22.5	
	25	0	21.52	21.37	21.50	1.0	22.5	
	1	0	21.93	21.69	21.99	1.0	22.5	
	1	12	22.05	21.70	22.02	1.0	22.5	
	1	24	21.98	21.64	21.95	1.0	22.5	
256QAM	12	0	20.53	20.44	20.58	2.0	21.5	
	12	7	20.56	20.44	20.59	2.0	21.5	
	12	13	20.53	20.45	20.59	2.0	21.5	
	25	0	20.54	20.43	20.55	2.0	21.5	
	1	0	21.20	20.73	20.77	2.0	21.5	
	1	12	21.19	20.72	20.81	2.0	21.5	
QPSK	1	24	21.09	20.71	20.77	2.0	21.5	
	12	0	19.67	19.60	19.70	3.0	20.5	
	12	7	19.71	19.60	19.73	3.0	20.5	
	12	13	19.68	19.60	19.70	3.0	20.5	
	25	0	19.70	19.60	19.69	3.0	20.5	
	1	0	17.83	17.56	17.51	5.0	18.5	
16QAM	1	12	17.87	17.52	17.25	5.0	18.5	
	1	24	17.80	17.53	17.54	5.0	18.5	
	12	0	17.71	17.59	17.65	5.0	18.5	
	12	7	17.71	17.59	17.66	5.0	18.5	
	12	13	17.69	17.60	17.63	5.0	18.5	
	25	0	17.62	17.56	17.65	5.0	18.5	

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657		
				1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	22.59	22.35	22.59	0.0	23.5
		1	8	22.43	22.46	22.65	0.0	23.5
		1	14	22.61	22.30	22.58	0.0	23.5
		8	0	21.52	21.37	21.46	1.0	22.5
		8	4	21.50	21.36	21.46	1.0	22.5
		8	7	21.49	21.32	21.52	1.0	22.5
	16QAM	15	0	21.51	21.38	21.47	1.0	22.5
		1	0	21.70	21.88	21.90	1.0	22.5
		1	8	21.75	21.95	21.96	1.0	22.5
		1	14	21.63	21.91	21.85	1.0	22.5
		8	0	20.49	20.38	20.62	2.0	21.5
		8	4	20.53	20.40	20.59	2.0	21.5
	64QAM	8	7	20.48	20.37	20.58	2.0	21.5
		15	0	20.56	20.40	20.52	2.0	21.5
		1	0	20.84	20.61	20.74	2.0	21.5
		1	8	20.86	20.57	20.74	2.0	21.5
		1	14	20.88	20.47	20.75	2.0	21.5
		8	0	19.70	19.63	19.77	3.0	20.5
	256QAM	8	4	19.72	19.65	19.73	3.0	20.5
		8	7	19.72	19.65	19.77	3.0	20.5
		15	0	19.82	19.65	19.70	3.0	20.5
		1	0	17.80	17.53	17.98	5.0	18.5
		1	8	17.80	17.55	17.79	5.0	18.5
		1	14	17.76	17.51	17.94	5.0	18.5
1.4 MHz	QPSK	8	0	17.71	17.62	17.80	5.0	18.5
		8	4	17.70	17.63	17.81	5.0	18.5
		8	7	17.72	17.60	17.78	5.0	18.5
		15	0	17.74	17.67	17.78	5.0	18.5
		1	0	22.67	22.39	22.49	0.0	23.5
		1	3	22.43	22.38	22.14	0.0	23.5
	16QAM	1	5	22.57	22.33	22.47	0.0	23.5
		3	0	22.59	22.35	22.47	0.0	23.5
		3	1	22.45	22.24	22.45	0.0	23.5
		3	3	22.48	22.23	22.31	0.0	23.5
		6	0	21.40	21.31	21.43	1.0	22.5
		1	0	21.58	21.38	21.86	1.0	22.5
	64QAM	1	3	21.79	21.32	21.86	1.0	22.5
		1	5	21.65	21.43	21.88	1.0	22.5
		3	0	21.73	21.55	21.50	1.0	22.5
		3	1	21.56	21.47	21.51	1.0	22.5
		3	3	21.54	21.53	21.50	1.0	22.5
		6	0	20.61	20.50	20.45	2.0	21.5
	256QAM	1	0	21.48	21.41	20.80	2.0	21.5
		1	3	20.65	20.95	20.59	2.0	21.5
		1	5	20.70	20.85	20.69	2.0	21.5
		3	0	20.54	20.80	20.79	2.0	21.5
		3	1	20.50	20.75	20.74	2.0	21.5
		3	3	20.50	20.72	20.73	2.0	21.5
QPSK	6	0	19.57	19.62	19.79	3.0	20.5	
	1	0	17.69	17.61	17.72	5.0	18.5	
	1	3	17.68	17.76	17.84	5.0	18.5	
	1	5	17.68	17.62	17.75	5.0	18.5	
	3	0	17.68	17.60	17.63	5.0	18.5	
	3	1	17.68	17.51	17.64	5.0	18.5	
16QAM	3	3	17.67	17.40	17.59	5.0	18.5	
	6	0	17.6	17.6	17.8	5.0	18.5	

**NR Band n41 (ANT F)**

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 MHz		
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.44	24.81	24.93	0.0	25.0
			1	137	24.58	24.93	24.83	0.0	25.0
			1	271	24.88	24.95	24.84	0.0	25.0
			135	0	23.88	24.19	24.47	0.5	24.5
			135	69	24.69	24.96	24.89	0.0	25.0
			135	138	24.19	24.32	24.21	0.5	24.5
		270	0	24.25	24.46	24.43	0.5	24.5	
		QPSK	1	1	24.49	24.96	24.99	0.0	25.0
			1	137	24.62	24.96	24.88	0.0	25.0
			1	271	24.96	24.83	24.87	0.0	25.0
			135	0	23.35	23.65	23.86	1.0	24.0
			135	69	24.68	24.95	24.87	0.0	25.0
			135	138	23.66	23.73	23.70	1.0	24.0
		16QAM	270	0	23.73	23.96	23.97	1.0	24.0
			1	1	23.51	23.74	23.77	1.0	24.0
1	137		23.67	23.90	23.83	1.0	24.0		
64QAM	1	271	24.00	23.75	23.80	1.0	24.0		
	1	1	21.97	22.34	22.35	2.5	22.5		
256QAM	1	1	20.11	20.35	20.43	4.5	20.5		
CP-OFDM	QPSK	1	1	22.86	23.34	23.24	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					508200	518598	528996		
					2541 MHz	2592.99 MHz	2644.98 MHz		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.57	24.89	24.97	0.0	25.0
			1	123	24.66	24.71	24.87	0.0	25.0
			1	243	24.83	24.92	24.90	0.0	25.0
			120	0	23.94	24.29	24.29	0.5	24.5
			120	63	24.79	24.78	24.95	0.0	25.0
			120	125	24.25	24.35	24.23	0.5	24.5
		243	0	24.26	24.21	24.46	0.5	24.5	
		QPSK	1	1	24.55	24.97	24.95	0.0	25.0
			1	123	24.66	24.73	24.88	0.0	25.0
			1	243	24.85	24.98	24.95	0.0	25.0
			120	0	23.43	23.73	23.80	1.0	24.0
			120	63	24.74	24.76	24.91	0.0	25.0
			120	125	23.75	23.83	23.71	1.0	24.0
		16QAM	243	0	23.79	23.75	23.99	1.0	24.0
			1	1	23.48	23.74	23.73	1.0	24.0
1	1		22.23	22.31	22.44	2.5	22.5		
256QAM	1	1	20.08	20.42	20.44	4.5	20.5		
CP-OFDM	QPSK	1	1	23.10	23.41	23.38	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	π/2 BPSK	1	1	24.60	24.94	24.90	0.0	25.0
			1	109	24.67	24.85	24.90	0.0	25.0
			1	215	24.95	24.97	24.96	0.0	25.0
			108	0	23.92	24.38	24.38	0.5	24.5
			108	55	24.78	24.82	24.94	0.0	25.0
			108	109	24.37	24.45	24.36	0.5	24.5
		216	0	24.29	24.37	24.23	0.5	24.5	
		QPSK	1	1	24.57	24.94	24.96	0.0	25.0
			1	109	24.69	24.83	24.97	0.0	25.0
			1	215	24.98	24.96	24.71	0.0	25.0
			108	0	23.45	23.84	23.85	1.0	24.0
			108	55	24.74	24.82	24.97	0.0	25.0
			108	109	23.80	23.90	23.83	1.0	24.0
		16QAM	216	0	23.76	23.83	23.72	1.0	24.0
			1	1	23.54	23.84	23.91	1.0	24.0
1	1		22.30	22.31	22.31	2.5	22.5		
256QAM	1	1	20.18	20.46	20.43	4.5	20.5		
CP-OFDM	QPSK	1	1	23.13	23.20	23.33	1.5	23.5	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					506202	518598	531996		
					2531.02 MHz	2592.99 MHz	2659.98 MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.39	24.81	24.98	0.0	25.0
			1	95	24.54	24.93	24.78	0.0	25.0
			1	188	24.77	24.49	24.86	0.0	25.0
			90	0	23.85	24.32	24.46	0.5	24.5
			90	50	24.61	24.96	24.87	0.0	25.0
			90	99	24.30	24.44	24.33	0.5	24.5
		180	0	24.09	24.50	24.49	0.5	24.5	
		QPSK	1	1	24.39	24.85	24.56	0.0	25.0
			1	95	24.53	24.89	24.88	0.0	25.0
			1	188	24.81	24.11	24.93	0.0	25.0
			90	0	23.40	23.87	23.95	1.0	24.0
			90	50	24.62	24.96	24.90	0.0	25.0
			90	99	23.81	23.97	23.83	1.0	24.0
		180	0	23.52	23.92	24.00	1.0	24.0	
16QAM	1	1	23.32	23.70	23.77	1.0	24.0		
64QAM	1	1	22.14	22.07	22.23	2.5	22.5		
256QAM	1	1	19.72	20.19	20.36	4.5	20.5		
CP-OFDM	QPSK	1	1	22.85	23.37	23.44	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					505200	518598	531996		
					2526 MHz	2592.99 MHz	2659.98 MHz		
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.39	24.78	24.93	0.0	25.0
			1	81	24.44	24.93	24.79	0.0	25.0
			1	160	24.76	24.91	24.87	0.0	25.0
			81	0	23.89	24.40	24.39	0.5	24.5
			81	41	24.47	24.95	24.85	0.0	25.0
			81	81	24.25	24.47	24.33	0.5	24.5
		162	0	24.02	24.41	24.36	0.5	24.5	
		QPSK	1	1	24.41	24.83	24.95	0.0	25.0
			1	81	24.48	24.97	24.88	0.0	25.0
			1	160	24.80	24.98	24.80	0.0	25.0
			81	0	23.39	23.89	23.92	1.0	24.0
			81	41	24.47	24.97	24.84	0.0	25.0
			81	81	23.76	23.99	23.86	1.0	24.0
		162	0	23.47	23.92	23.87	1.0	24.0	
16QAM	1	1	23.32	23.84	23.98	1.0	24.0		
64QAM	1	1	21.77	22.41	22.43	2.5	22.5		
256QAM	1	1	20.00	20.16	20.27	4.5	20.5		
CP-OFDM	QPSK	1	1	22.85	23.35	23.43	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 MHz		
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.19	24.58	24.83	0.0	25.0
			1	67	24.13	24.89	24.56	0.0	25.0
			1	131	24.59	24.93	24.70	0.0	25.0
			64	0	23.68	24.20	24.22	0.5	24.5
			64	35	24.25	24.96	24.62	0.0	25.0
			64	69	23.96	24.50	24.12	0.5	24.5
		128	0	23.74	24.43	24.18	0.5	24.5	
		QPSK	1	1	24.20	24.58	24.97	0.0	25.0
			1	67	24.21	24.88	24.61	0.0	25.0
			1	131	24.68	24.94	24.70	0.0	25.0
			64	0	23.23	23.72	23.73	1.0	24.0
			64	35	24.27	24.94	24.64	0.0	25.0
			64	69	23.48	23.98	23.62	1.0	24.0
		128	0	23.24	23.89	23.66	1.0	24.0	
16QAM	1	1	23.13	23.71	23.76	1.0	24.0		
64QAM	1	1	21.73	22.18	22.33	2.5	22.5		
256QAM	1	1	20.30	20.34	20.39	4.5	20.5		
CP-OFDM	QPSK	1	1	22.72	23.13	23.44	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 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.83	24.62	24.72	0.0	25.0
			1	53	24.77	24.93	24.64	0.0	25.0
			1	104	24.63	24.89	24.70	0.0	25.0
			50	0	24.32	24.24	23.21	0.5	24.5
			50	28	24.89	24.91	24.66	0.0	25.0
			50	56	24.00	24.35	24.16	0.5	24.5
		100	0	24.38	24.47	24.22	0.5	24.5	
		QPSK	1	1	24.84	24.62	24.87	0.0	25.0
			1	53	24.85	24.92	24.65	0.0	25.0
			1	104	24.72	24.89	24.74	0.0	25.0
			50	0	23.87	23.76	23.77	1.0	24.0
			50	28	24.91	24.98	24.68	0.0	25.0
			50	56	23.52	23.76	23.66	1.0	24.0
		100	0	23.88	23.93	23.70	1.0	24.0	
16QAM	1	1	23.77	23.75	23.80	1.0	24.0		
64QAM	1	1	22.37	22.22	21.62	2.5	22.5		
256QAM	1	1	20.44	18.18	20.43	4.5	20.5		
CP-OFDM	QPSK	1	1	23.36	23.41	23.33	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					502200	518598	534996		
					2511 MHz	2592.99 MHz	2675.0 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.14	24.65	24.56	0.0	25.0
			1	39	24.15	24.87	24.54	0.0	25.0
			1	76	24.25	24.99	24.54	0.0	25.0
			36	0	23.71	24.27	24.05	0.5	24.5
			36	21	24.17	24.93	24.55	0.0	25.0
			36	42	23.68	24.47	24.10	0.5	24.5
		75	0	23.69	24.39	24.02	0.5	24.5	
		QPSK	1	1	24.17	24.65	24.59	0.0	25.0
			1	39	24.19	24.99	24.59	0.0	25.0
			1	76	24.27	24.95	24.65	0.0	25.0
			36	0	23.17	23.76	23.58	1.0	24.0
			36	21	24.19	24.95	24.56	0.0	25.0
			36	42	23.20	23.96	23.64	1.0	24.0
		75	0	23.18	23.93	23.54	1.0	24.0	
16QAM	1	1	23.00	23.55	23.53	1.0	24.0		
64QAM	1	1	21.74	22.24	22.19	2.5	22.5		
256QAM	1	1	20.13	20.34	20.07	4.5	20.5		
CP-OFDM	QPSK	1	1	22.59	23.17	23.02	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	π/2 BPSK	1	1	24.17	24.75	24.53	0.0	25.0
			1	26	23.68	24.35	24.07	0.0	25.0
			1	49	23.68	24.42	24.11	0.0	25.0
			25	0	23.65	24.43	24.11	0.5	24.5
			25	13	24.18	24.95	24.62	0.0	25.0
			25	26	23.65	24.48	24.13	0.5	24.5
		50	0	23.62	24.44	24.15	0.5	24.5	
		QPSK	1	1	24.21	24.75	24.55	0.0	25.0
			1	26	23.14	23.85	23.53	0.0	25.0
			1	49	23.17	23.92	23.59	0.0	25.0
			25	0	23.18	23.99	23.60	1.0	24.0
			25	13	24.20	24.95	24.61	0.0	25.0
			25	26	23.15	23.96	23.64	1.0	24.0
		50	0	23.18	23.93	23.65	1.0	24.0	
16QAM	1	1	23.03	23.69	23.48	1.0	24.0		
64QAM	1	1	21.68	22.41	22.19	2.5	22.5		
256QAM	1	1	20.19	20.36	20.10	4.5	20.5		
CP-OFDM	QPSK	1	1	22.71	23.34	23.13	1.5	23.5	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					500700	518598	536496		
					2503.5 MHz	2592.99 MHz	2682.48MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.18	24.85	24.55	0.0	25.0
			1	19	24.19	24.90	24.62	0.0	25.0
			1	36	24.18	24.92	24.60	0.0	25.0
			18	0	23.70	24.34	24.12	0.5	24.5
			18	10	24.21	24.94	24.62	0.0	25.0
			18	20	23.71	24.47	24.14	0.5	24.5
		QPSK	36	0	23.68	24.42	24.11	0.5	24.5
			1	1	24.19	24.81	24.55	0.0	25.0
			1	19	24.22	24.97	24.58	0.0	25.0
			1	36	24.21	24.98	24.62	0.0	25.0
			18	0	23.20	23.87	23.59	1.0	24.0
			18	10	24.20	24.94	24.63	0.0	25.0
			18	20	23.19	23.97	23.63	1.0	24.0
			36	0	23.13	23.91	23.62	1.0	24.0
16QAM	1	1	23.24	23.63	23.49	1.0	24.0		
64QAM	1	1	21.73	22.35	22.21	2.5	22.5		
256QAM	1	1	20.26	20.40	20.23	4.5	20.5		
CP-OFDM	QPSK	1	1	22.71	23.35	23.13	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 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.19	24.86	24.65	0.0	25.0
			1	12	24.16	24.94	24.69	0.0	25.0
			1	22	24.19	24.92	24.65	0.0	25.0
			12	0	23.68	24.42	24.15	0.5	24.5
			12	6	24.20	24.92	24.63	0.0	25.0
			12	12	23.71	24.50	24.17	0.5	24.5
		QPSK	24	0	23.69	24.44	24.14	0.5	24.5
			1	1	24.23	24.89	24.64	0.0	25.0
			1	12	24.21	24.93	24.65	0.0	25.0
			1	22	24.15	24.95	24.71	0.0	25.0
			12	0	23.19	23.88	23.67	1.0	24.0
			12	6	24.22	24.95	24.65	0.0	25.0
			12	12	23.22	23.98	23.66	1.0	24.0
			24	0	23.18	23.91	23.67	1.0	24.0
16QAM	1	1	23.20	23.77	23.43	1.0	24.0		
64QAM	1	1	21.92	22.42	22.06	2.5	22.5		
256QAM	1	1	20.23	20.50	20.43	4.5	20.5		
CP-OFDM	QPSK	1	1	22.72	23.44	23.31	1.5	23.5	

**NR Band n41 (SRS1, ANT B)**

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm) SRS1				
			Measured Pwr (dBm)			MPR	Tune-up Limit
100 MHz	1	1	509202	518598	528000		
			2546.01 MHz	2592.99 MHz	2640 MHz		
			21.43	21.38	21.56	0.0	
90 MHz	1	1	508200	518598	528996	MPR	
			2541 MHz	2592.99 MHz	2644.98 MHz		
			21.40	21.37	21.55		0.0
80 MHz	1	1	507204	518598	529998	MPR	
			2536.02 MHz	2592.99 MHz	2649.99 MHz		
			21.37	21.36	21.58		0.0
70 MHz	1	1	506202	518598	531996	MPR	
			2531.02 MHz	2592.99 MHz	2659.98 MHz		
			21.38	21.40	21.62		0.0
60 MHz	1	1	505200	518598	531996	MPR	
			2526 MHz	2592.99 MHz	2659.98 MHz		
			21.43	21.45	21.65		0.0
50 MHz	1	1	504204	518598	532998	MPR	
			2521.01 MHz	2592.99 MHz	2665 MHz		
			21.35	21.40	21.60		0.0
40 MHz	1	1	503202	518598	534000	MPR	
			2516.01 MHz	2592.99 MHz	2670 MHz		
			21.38	21.42	21.62		0.0
30 MHz	1	1	502200	518598	534996	MPR	
			2511 MHz	2592.99 MHz	2675.0 MHz		
			21.39	21.43	21.58		0.0
20 MHz	1	1	501204	518598	535998	MPR	
			2506.02 MHz	2592.99 MHz	2679.99 MHz		
			21.34	21.45	21.55		0.0
15 MHz	1	1	500700	518598	536496	MPR	
			2503.5 MHz	2592.99 MHz	2682.48MHz		
			21.41	21.50	21.63		0.0
10 MHz	1	1	500202	518598	537000	MPR	
			2501.01 MHz	2592.99 MHz	2685 MHz		
			21.35	21.47	21.67		0.0



**NR Band n41 (SRS2, ANT E)**

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm) SRS2				
			Measured Pwr (dBm)			MPR	Tune-up Limit
100 MHz	1	1	509202	518598	528000		
			2546.01 MHz	2592.99 MHz	2640 MHz		
			23.26	23.09	23.10	0.0	
90 MHz	1	1	508200	518598	528996	MPR	
			2541 MHz	2592.99 MHz	2644.98 MHz		
			23.27	23.07	23.12		0.0
80 MHz	1	1	507204	518598	529998	MPR	
			2536.02 MHz	2592.99 MHz	2649.99 MHz		
			23.28	23.10	23.12		0.0
70 MHz	1	1	506202	518598	531996	MPR	
			2531.02 MHz	2592.99 MHz	2659.98 MHz		
			23.31	23.10	23.11		0.0
60 MHz	1	1	505200	518598	531996	MPR	
			2526 MHz	2592.99 MHz	2659.98 MHz		
			23.34	23.10	23.12		0.0
50 MHz	1	1	504204	518598	532998	MPR	
			2521.01 MHz	2592.99 MHz	2665 MHz		
			23.33	23.10	23.11		0.0
40 MHz	1	1	503202	518598	534000	MPR	
			2516.01 MHz	2592.99 MHz	2670 MHz		
			23.42	23.12	23.13		0.0
30 MHz	1	1	502200	518598	534996	MPR	
			2511 MHz	2592.99 MHz	2675.0 MHz		
			23.42	23.10	23.07		0.0
20 MHz	1	1	501204	518598	535998	MPR	
			2506.02 MHz	2592.99 MHz	2679.99 MHz		
			23.45	23.10	23.02		0.0
15 MHz	1	1	500700	518598	536496	MPR	
			2503.5 MHz	2592.99 MHz	2682.48MHz		
			23.42	23.07	22.95		0.0
10 MHz	1	1	500202	518598	537000	MPR	
			2501.01 MHz	2592.99 MHz	2685 MHz		
			23.47	23.12	23.16		0.0

**NR Band n41 (SRS3, ANT D)**

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm) SRS3				
			Measured Pwr (dBm)			MPR	Tune-up Limit
100 MHz	1	1	509202	518598	528000		
			2546.01 MHz	2592.99 MHz	2640 MHz		
			20.01	20.11	19.95	0.0	
90 MHz	1	1	508200	518598	528996	MPR	21.0
			2541 MHz	2592.99 MHz	2644.98 MHz		
			19.69	20.12	19.98		
80 MHz	1	1	507204	518598	529998	MPR	21.0
			2536.02 MHz	2592.99 MHz	2649.99 MHz		
			19.47	20.14	20.00		
70 MHz	1	1	506202	518598	531996	MPR	21.0
			2531.02 MHz	2592.99 MHz	2659.98 MHz		
			20.15	20.18	20.00		
60 MHz	1	1	505200	518598	531996	MPR	21.0
			2526 MHz	2592.99 MHz	2659.98 MHz		
			19.87	20.13	19.97		
50 MHz	1	1	504204	518598	532998	MPR	21.0
			2521.01 MHz	2592.99 MHz	2665 MHz		
			20.03	20.16	19.93		
40 MHz	1	1	503202	518598	534000	MPR	21.0
			2516.01 MHz	2592.99 MHz	2670 MHz		
			20.22	20.18	19.88		
30 MHz	1	1	502200	518598	534996	MPR	21.0
			2511 MHz	2592.99 MHz	2675.0 MHz		
			20.12	20.14	19.83		
20 MHz	1	1	501204	518598	535998	MPR	21.0
			2506.02 MHz	2592.99 MHz	2679.99 MHz		
			19.67	20.14	19.70		
15 MHz	1	1	500700	518598	536496	MPR	21.0
			2503.5 MHz	2592.99 MHz	2682.48MHz		
			19.25	20.13	19.63		
10 MHz	1	1	500202	518598	537000	MPR	21.0
			2501.01 MHz	2592.99 MHz	2685 MHz		
			19.00	20.11	19.93		

**NR Band n66 (ANT A)**

					Maximum Average Power (dBm)				
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	π/2 BPSK	1	1	23.39	23.33	23.18	0.0	24.5
			1	52	23.35	23.36	23.25	0.0	24.5
			1	104	23.27	23.19	23.08	0.0	24.5
			50	0	22.36	22.35	22.13	0.5	24.0
			50	28	23.33	23.29	23.15	0.0	24.5
			50	56	22.28	22.23	22.06	0.5	24.0
		100	0	22.33	22.28	22.14	0.5	24.0	
		QPSK	1	1	23.38	23.26	23.12	0.0	24.5
			1	52	23.32	23.26	23.13	0.0	24.5
			1	104	23.26	23.15	23.02	0.0	24.5
			50	0	22.36	22.33	22.11	1.0	23.5
			50	28	23.31	23.29	23.12	0.0	24.5
			50	56	22.28	22.22	22.08	1.0	23.5
		16QAM	1	1	22.43	22.23	22.17	1.0	23.5
			1	52	22.42	22.25	22.18	1.0	23.5
		64QAM	1	1	20.87	20.96	20.65	2.5	22.0
1	1		18.93	18.83	18.66	4.5	20.0		
256QAM	1	1	18.93	18.83	18.66	4.5	20.0		
CP-OFDM	QPSK	1	1	21.96	21.86	21.71	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	π/2 BPSK	1	1	23.30	23.37	23.29	0.0	24.5
			1	39	23.26	23.47	23.44	0.0	24.5
			1	77	23.44	23.38	23.29	0.0	24.5
			36	0	22.50	22.71	22.30	0.5	24.0
			36	21	23.44	23.47	23.22	0.0	24.5
			36	43	22.40	22.36	22.16	0.5	24.0
		75	0	22.43	22.38	22.20	0.5	24.0	
		QPSK	1	1	23.44	23.40	23.24	0.0	24.5
			1	39	23.48	23.26	23.11	0.0	24.5
			1	77	23.32	23.24	23.15	0.0	24.5
			36	0	22.42	22.36	22.21	1.0	23.5
			36	21	23.37	23.32	23.19	0.0	24.5
			36	43	22.37	22.29	22.15	1.0	23.5
		75	0	22.41	22.34	22.19	1.0	23.5	
		16QAM	1	1	22.46	22.32	22.27	1.0	23.5
			1	39	22.34	22.23	22.17	1.0	23.5
64QAM	1	1	20.84	20.92	20.62	2.5	22.0		
	1	1	18.96	18.89	18.66	4.5	20.0		
256QAM	1	1	18.96	18.89	18.66	4.5	20.0		
CP-OFDM	QPSK	1	1	21.94	21.89	21.74	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	π/2 BPSK	1	1	23.37	23.42	23.28	0.0	24.5
			1	25	23.34	23.43	23.34	0.0	24.5
			1	50	23.37	23.32	23.2	0.0	24.5
			25	0	22.32	22.38	22.24	0.5	24.0
			25	13	23.33	23.35	23.23	0.0	24.5
			25	27	22.34	22.33	22.2	0.5	24.0
		50	0	22.35	22.38	22.22	0.5	24.0	
		QPSK	1	1	23.39	23.36	23.24	0.0	24.5
			1	25	23.32	23.35	23.28	0.0	24.5
			1	50	23.32	23.28	23.17	0.0	24.5
			25	0	22.42	22.39	22.26	1.0	23.5
			25	13	23.31	23.36	23.21	0.0	24.5
			25	27	22.3	22.33	22.21	1.0	23.5
		50	0	22.3	22.38	22.22	1.0	23.5	
		16QAM	1	1	22.38	22.45	22.21	1.0	23.5
			1	25	22.41	22.47	22.21	1.0	23.5
64QAM	1	1	20.86	20.9	20.74	2.5	22.0		
	1	1	18.89	18.93	18.8	4.5	20.0		
256QAM	1	1	18.89	18.93	18.8	4.5	20.0		
CP-OFDM	QPSK	1	1	21.91	21.93	21.8	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	23.34	23.40	23.20	0.0	24.5	
			1	12	23.24	23.28	23.09	0.0	24.5	
			1	23	23.42	23.34	23.19	0.0	24.5	
			12	0	22.55	22.39	22.18	0.5	24.0	
			12	6	23.42	23.36	23.19	0.0	24.5	
			12	13	22.47	22.36	22.18	0.5	24.0	
		25	0	22.48	22.38	22.19	0.5	24.0		
		QPSK	1	1	23.47	23.35	23.23	0.0	24.5	
			1	12	23.36	23.25	23.15	0.0	24.5	
			1	23	23.42	23.31	23.22	0.0	24.5	
			12	0	22.43	22.38	22.20	1.0	23.5	
			12	6	23.44	23.38	23.18	0.0	24.5	
			12	13	22.42	22.35	22.18	1.0	23.5	
		16QAM	25	0	22.45	22.36	22.20	1.0	23.5	
			1	1	22.47	22.31	22.39	1.0	23.5	
			1	12	22.40	22.23	22.32	1.0	23.5	
		64QAM	1	23	22.47	22.28	22.36	1.0	23.5	
			1	1	20.91	20.94	20.62	2.5	22.0	
		256QAM	1	1	18.98	18.86	18.74	4.5	20.0	
		CP-OFDM	QPSK	1	1	21.99	21.95	21.72	1.5	23.0

**NR Band n66 (ANT F)**

					Maximum Average Power (dBm)						
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	π/2 BPSK	1	1	22.62	22.40	22.35	0.0	24.0		
			1	52	22.47	22.44	22.53	0.0	24.0		
			1	104	22.35	22.29	22.40	0.0	24.0		
			50	0	21.57	21.42	21.35	0.5	23.5		
			50	28	22.45	22.37	22.36	0.0	24.0		
			50	56	21.42	21.34	21.36	0.5	23.5		
		100	0	21.47	21.37	21.36	0.5	23.5			
		QPSK	1	1	22.60	22.38	22.29	0.0	24.0		
			1	52	22.47	22.45	22.39	0.0	24.0		
			1	104	22.32	22.29	22.32	0.0	24.0		
			50	0	21.55	21.40	21.31	1.0	23.0		
			50	28	22.45	22.37	22.36	0.0	24.0		
			50	56	21.40	21.33	21.35	1.0	23.0		
		100	0	21.46	21.38	21.37	1.0	23.0			
16QAM	1	1	21.57	21.38	21.38	1.0	23.0				
	1	52	21.47	21.42	21.49	1.0	23.0				
64QAM	1	104	21.34	21.36	21.41	1.0	23.0				
	1	1	20.07	19.94	19.86	2.5	21.5				
256QAM	1	1	18.09	17.95	17.86	4.5	19.5				
CP-OFDM	QPSK	1	1	21.19	20.94	20.89	1.5	22.5			
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.67	22.44	22.32			0.0	24.0
			1	39	22.45	22.29	22.23			0.0	24.0
			1	77	22.43	22.30	22.35	0.0	24.0		
			36	0	21.61	21.42	21.35	0.5	23.5		
			36	21	22.53	22.38	22.29	0.0	24.0		
			36	43	21.48	21.34	21.34	0.5	23.5		
		75	0	21.55	21.38	21.30	0.5	23.5			
		QPSK	1	1	22.67	22.43	22.26	0.0	24.0		
			1	39	22.46	22.28	22.19	0.0	24.0		
			1	77	22.48	22.31	22.32	0.0	24.0		
			36	0	21.62	21.40	21.33	1.0	23.0		
			36	21	22.52	22.35	22.29	0.0	24.0		
			36	43	21.48	21.32	21.35	1.0	23.0		
		75	0	21.54	21.39	21.28	1.0	23.0			
16QAM	1	1	21.73	21.53	21.25	1.0	23.0				
	1	39	21.50	21.42	21.13	1.0	23.0				
64QAM	1	77	21.51	21.47	21.26	1.0	23.0				
	1	1	20.16	19.77	19.63	2.5	21.5				
256QAM	1	1	18.13	18.03	17.90	4.5	19.5				
CP-OFDM	QPSK	1	1	21.22	21.00	20.82	1.5	22.5			
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.73	22.43	22.42			0.0	24.0
			1	25	22.70	22.43	22.52			0.0	24.0
			1	50	22.54	22.35	22.40	0.0	24.0		
			25	0	21.70	21.41	21.35	0.5	23.5		
			25	13	22.64	22.39	22.37	0.0	24.0		
			25	27	21.56	21.35	21.40	0.5	23.5		
		50	0	21.64	21.37	21.39	0.5	23.5			
		QPSK	1	1	22.69	22.40	22.40	0.0	24.0		
			1	25	22.74	22.40	22.47	0.0	24.0		
			1	50	22.52	22.30	22.41	0.0	24.0		
			25	0	21.68	21.39	21.35	1.0	23.0		
			25	13	22.62	22.35	22.38	0.0	24.0		
			25	27	21.56	21.34	21.40	1.0	23.0		
		50	0	21.65	21.36	21.39	1.0	23.0			
16QAM	1	1	21.58	21.48	21.25	1.0	23.0				
	1	25	21.66	21.43	21.33	1.0	23.0				
64QAM	1	50	21.42	21.36	21.28	1.0	23.0				
	1	1	20.40	20.02	19.93	2.5	21.5				
256QAM	1	1	18.20	17.95	17.83	4.5	19.5				
CP-OFDM	QPSK	1	1	21.22	20.95	20.96	1.5	22.5			

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	
					342500	349000	355500			
					1712.50 MHz	1745.00 MHz	1777.50 MHz			
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.66	22.41	22.36	0.0	24.0	
			1	12	22.52	22.29	22.29	0.0	24.0	
			1	23	22.59	22.34	22.38	0.0	24.0	
			12	0	21.65	21.39	21.34	0.5	23.5	
			12	6	22.62	22.37	22.38	0.0	24.0	
			12	13	21.59	21.36	21.37	0.5	23.5	
		25	0	21.61	21.38	21.38	0.5	23.5		
		QPSK	1	1	22.61	22.38	22.35	0.0	24.0	
			1	12	22.52	22.25	22.28	0.0	24.0	
			1	23	22.51	22.31	22.36	0.0	24.0	
			12	0	21.61	21.36	21.33	1.0	23.0	
			12	6	22.60	22.36	22.35	0.0	24.0	
			12	13	21.58	21.33	21.36	1.0	23.0	
		16QAM	25	0	21.60	21.35	21.35	1.0	23.0	
			1	1	21.73	21.32	21.23	1.0	23.0	
			1	12	21.53	21.24	21.15	1.0	23.0	
		64QAM	1	23	21.60	21.32	21.25	1.0	23.0	
			1	1	20.23	19.91	19.84	2.5	21.5	
		256QAM	1	1	18.11	17.98	18.00	4.5	19.5	
		CP-OFDM	QPSK	1	1	21.20	20.96	21.17	1.5	22.5

**NR Band n77(ANT F)**

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)							MPR	Tune-up Limit
					Measured Pwr (dBm)								
					633332	650000	656000	662000	3499.98MHz	3750 MHz	3840 MHz		
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.39	23.61	23.79	23.24	0.0	25.5			
			1	137	24.26	23.12	23.08	23.03	0.0	25.5			
			1	271	24.10	23.83	23.11	23.41	0.0	25.5			
			135	0	23.02	22.84	23.34	22.66	0.5	25.0			
			135	69	24.34	23.18	23.28	23.08	0.0	25.5			
			135	138	23.37	23.28	22.84	22.99	0.5	25.0			
			270	0	23.72	22.64	22.82	23.08	0.5	25.0			
		QPSK	1	1	24.60	23.56	23.89	23.17	0.0	25.5			
			1	137	24.31	23.07	23.16	23.07	0.0	25.5			
			1	271	24.06	23.77	23.08	23.36	0.0	25.5			
			135	0	22.45	22.34	22.88	22.16	1.0	24.5			
			135	69	24.32	23.18	23.08	23.04	0.0	25.5			
			135	138	22.97	22.71	22.34	22.48	1.0	24.5			
			270	0	23.27	22.14	22.31	22.01	1.0	24.5			
		16QAM	1	1	23.51	22.83	22.80	22.35	1.0	24.5			
			1	137	23.34	22.31	22.28	22.06	1.0	24.5			
1	271		23.12	23.05	22.28	22.55	1.0	24.5					
64QAM	1	1	21.89	20.97	21.32	21.05	2.5	23.0					
256QAM	1	1	19.99	19.31	19.39	18.76	4.5	21.0					
CP-OFDM	QPSK	1	1	23.04	22.05	22.25	21.82	1.5	24.0				
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	
					633000	633332	633666	649666	656000	662332			
					3495MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840 MHz	3934.99MHz			
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.49	24.27	23.89	23.59	23.78	23.32	0.0	25.5	
			123	1	23.95	24.35	23.97	23.17	23.18	23.02	0.0	25.5	
			243	1	23.96	24.29	23.95	23.87	23.19	23.03	0.0	25.5	
			1	120	22.86	23.04	23.06	22.82	23.38	22.92	0.5	25.0	
			63	120	23.96	24.41	23.98	23.24	23.21	23.05	0.0	25.5	
			125	120	23.19	23.47	23.22	23.09	22.79	22.52	0.5	25.0	
			0	243	23.45	23.83	23.52	22.82	22.74	22.58	0.5	25.0	
		QPSK	1	1	24.44	24.24	23.96	23.62	23.76	23.30	0.0	25.5	
			123	1	23.91	24.00	23.96	23.25	23.18	23.02	0.0	25.5	
			243	1	23.96	24.03	23.94	23.88	23.17	23.01	0.0	25.5	
			1	120	22.35	22.40	22.57	22.21	22.92	22.46	1.0	24.5	
			63	120	23.95	24.17	24.06	23.24	23.21	23.05	0.0	25.5	
			125	120	22.78	22.71	22.74	22.61	22.29	22.01	1.0	24.5	
			0	243	22.95	23.15	23.04	22.22	22.26	22.00	1.0	24.5	
		16QAM	1	1	23.50	23.39	22.90	22.54	22.89	22.43	1.0	24.5	
		64QAM	1	1	21.88	21.60	21.37	21.11	21.38	20.92	2.5	23.0	
256QAM	1	1	20.03	19.83	19.62	19.13	19.38	18.92	4.5	21.0			
CP-OFDM	QPSK	1	1	22.95	22.71	22.40	22.13	22.29	21.83	1.5	24.0		
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	
					632668	633332	634000	649334	656000	662666			
					3490.02 MHz	3499.98MHz	3510 MHz	3740.01 MHz	3840 MHz	3939.99 MHz			
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.42	23.97	23.49	23.52	23.72	23.22	0.0	25.5	
			1	109	23.77	24.37	23.92	23.30	23.20	23.04	0.0	25.5	
			1	215	23.81	24.18	23.97	23.83	23.24	23.39	0.0	25.5	
			108	0	22.89	23.10	23.36	22.69	23.40	22.57	0.5	25.0	
			108	55	23.81	24.36	23.94	23.37	23.22	23.05	0.0	25.5	
			108	109	23.43	23.43	23.29	22.81	22.80	23.06	0.5	25.0	
			216	0	23.27	23.88	23.42	22.82	22.77	22.61	0.5	25.0	
		QPSK	1	1	24.47	23.92	23.49	23.56	23.78	23.27	0.0	25.5	
			1	109	23.82	24.35	23.95	23.35	23.17	23.09	0.0	25.5	
			1	215	23.86	24.22	23.92	23.87	23.19	23.34	0.0	25.5	
			108	0	22.41	22.59	22.85	22.18	22.92	22.08	1.0	24.5	
			108	55	23.82	24.35	23.93	23.37	23.29	23.05	0.0	25.5	
			108	109	22.96	22.92	22.69	22.36	22.28	22.62	1.0	24.5	
			216	0	22.86	23.39	22.94	22.36	22.26	22.10	1.0	24.5	
		16QAM	1	1	23.54	23.31	22.61	22.52	22.87	22.44	1.0	24.5	
		64QAM	1	1	21.58	21.29	20.73	21.08	21.33	20.64	2.5	23.0	
256QAM	1	1	20.02	19.51	19.08	19.29	19.58	19.05	4.5	21.0			
CP-OFDM	QPSK	1	1	22.93	22.40	21.92	22.02	22.24	21.72	1.5	24.0		

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					632334	633332	634332	649000	656000	663000		
					3485.01 MHz	3499.98MHz	3514.98 MHz	3735MHz	3840 MHz	3945MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.43	23.66	23.72	23.45	23.69	23.26	0.0	25.5
			1	95	23.72	24.38	24.45	23.33	23.14	23.04	0.0	25.5
			1	188	23.40	23.61	23.67	23.21	23.19	23.07	0.0	25.5
			90	0	23.24	23.20	23.26	22.64	23.36	22.55	0.5	25.0
			90	50	23.65	24.44	24.49	23.40	23.22	23.12	0.0	25.5
			90	99	23.68	23.60	23.63	22.79	22.83	23.04	0.5	25.0
		180	0	23.12	23.82	23.84	22.87	22.81	22.63	0.5	25.0	
		QPSK	1	1	24.49	23.75	23.78	23.49	23.79	23.24	0.0	25.5
			1	95	23.69	24.42	24.44	23.32	23.17	23.09	0.0	25.5
			1	188	23.09	23.04	23.19	23.09	23.03	23.06	0.0	25.5
			90	0	22.62	22.70	22.74	22.16	22.85	22.02	1.0	24.5
			90	50	23.66	24.43	24.45	23.41	23.31	23.17	0.0	25.5
			90	99	23.12	23.01	23.13	22.24	22.31	22.62	1.0	24.5
		180	0	22.57	23.32	23.45	22.34	22.31	22.18	1.0	24.5	
16QAM	1	1	23.48	22.81	22.91	22.64	22.89	22.43	1.0	24.5		
64QAM	1	1	21.77	21.05	21.27	20.81	20.96	20.77	2.5	23.0		
256QAM	1	1	20.03	19.29	20.04	19.11	19.47	19.02	4.5	21.0		
CP-OFDM	QPSK	1	1	22.98	22.18	22.25	21.95	22.24	21.69	1.5	24.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					632000	633332	634666	648668	656000	663332		
					3480 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840 MHz	3949.98 MHz		
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.42	23.54	24.08	23.38	23.88	23.11	0.0	25.5
			1	81	23.59	24.25	23.89	23.40	23.22	23.61	0.0	25.5
			1	160	24.08	23.90	23.80	23.44	23.16	23.48	0.0	25.5
			81	0	23.24	23.29	23.64	22.82	23.22	22.72	0.5	25.0
			81	41	23.61	24.21	23.85	23.41	23.22	23.58	0.0	25.5
			81	81	23.61	23.46	23.43	22.83	22.74	23.16	0.5	25.0
		162	0	23.12	23.69	23.38	22.90	22.74	23.10	0.5	25.0	
		QPSK	1	1	24.44	23.52	24.14	23.39	23.83	23.14	0.0	25.5
			1	81	23.71	24.22	23.91	23.45	23.19	23.63	0.0	25.5
			1	160	24.03	23.92	23.89	23.42	23.13	23.52	0.0	25.5
			81	0	22.74	22.79	23.14	22.24	22.75	22.25	1.0	24.5
			81	41	23.59	24.24	23.87	23.41	23.20	23.64	0.0	25.5
			81	81	23.11	22.99	22.96	22.33	22.24	22.64	1.0	24.5
		162	0	22.60	23.20	22.86	22.35	22.25	22.62	1.0	24.5	
16QAM	1	1	23.19	22.43	23.07	22.36	22.69	22.06	1.0	24.5		
64QAM	1	1	22.10	21.09	21.62	20.95	21.50	20.71	2.5	23.0		
256QAM	1	1	20.49	19.59	20.01	19.48	19.93	19.08	4.5	21.0		
CP-OFDM	QPSK	1	1	23.05	22.10	22.59	21.95	22.52	21.51	1.5	24.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					631668	633332	635000	648334	656000	663666		
					3475.02 MHz	3499.98MHz	3525 MHz	3725.01 MHz	3840 MHz	3954.99 MHz		
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.41	23.55	24.18	23.38	23.83	23.22	0.0	25.5
			1	67	23.52	24.20	23.81	23.29	23.15	23.62	0.0	25.5
			1	131	24.18	23.88	23.80	23.34	23.22	23.51	0.0	25.5
			64	0	23.30	23.38	23.47	22.75	23.11	22.87	0.5	25.0
			64	35	23.56	24.24	23.88	23.32	23.17	23.63	0.0	25.5
			64	69	23.39	23.48	23.49	22.85	22.73	23.12	0.5	25.0
		128	0	23.04	23.70	23.34	22.78	22.72	23.13	0.5	25.0	
		QPSK	1	1	24.42	23.56	24.23	23.38	23.87	23.21	0.0	25.5
			1	67	23.52	24.19	23.80	23.31	23.11	23.63	0.0	25.5
			1	131	24.21	23.89	23.86	23.34	23.21	23.58	0.0	25.5
			64	0	22.81	22.88	22.98	22.20	22.66	22.40	1.0	24.5
			64	35	23.56	24.26	23.91	23.34	23.24	23.68	0.0	25.5
			64	69	22.90	22.97	22.97	22.35	22.22	22.61	1.0	24.5
		128	0	22.54	23.17	22.85	22.32	22.23	22.67	1.0	24.5	
16QAM	1	1	23.33	22.69	23.15	22.37	22.72	22.15	1.0	24.5		
64QAM	1	1	21.81	21.15	21.95	20.86	21.46	20.86	2.5	23.0		
256QAM	1	1	20.45	19.64	20.43	19.40	19.73	19.22	4.5	21.0		
CP-OFDM	QPSK	1	1	23.01	22.02	22.76	21.78	22.31	21.60	1.5	24.0	



BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					631334	633332	635332	648000	656000	664000		
					3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840 MHz	3960 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.44	23.63	23.95	23.31	23.73	23.38	0.0	25.5
			1	53	23.53	24.20	23.80	23.24	23.14	23.62	0.0	25.5
			1	104	23.91	23.89	23.75	23.30	23.19	23.46	0.0	25.5
			50	0	23.42	23.46	23.34	22.69	23.09	23.08	0.5	25.0
			50	28	23.52	24.25	23.85	23.27	23.16	23.68	0.0	25.5
			50	56	23.10	23.52	23.46	22.87	22.70	23.03	0.5	25.0
		100	0	23.09	23.66	23.31	22.69	22.72	23.11	0.5	25.0	
		QPSK	1	1	24.42	23.60	23.96	23.35	23.72	23.36	0.0	25.5
			1	53	23.47	24.21	23.86	23.29	23.19	23.75	0.0	25.5
			1	104	23.91	23.87	23.77	23.37	23.21	23.51	0.0	25.5
			50	0	22.93	22.94	22.82	22.15	22.57	22.57	1.0	24.5
			50	28	23.53	24.23	23.87	23.25	23.16	23.68	0.0	25.5
			50	56	22.60	22.99	22.95	22.35	22.21	22.53	1.0	24.5
		100	0	22.58	23.17	22.83	22.22	22.21	22.62	1.0	24.5	
16QAM	1	1	23.40	22.60	22.94	22.22	22.67	22.29	1.0	24.5		
64QAM	1	1	21.92	21.20	21.59	20.95	21.32	20.84	2.5	23.0		
256QAM	1	1	20.28	19.53	19.90	19.44	19.75	19.27	4.5	21.0		
CP-OFDM	QPSK	1	1	22.84	22.21	22.57	21.81	22.18	21.85	1.5	24.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					631000	633332	635668	647668	656000	664332		
					3465 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840 MHz	3964.98 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.42	23.88	23.88	23.41	23.70	23.59	0.0	25.5
			1	39	23.79	24.29	23.93	23.31	23.23	23.61	0.0	25.5
			1	76	23.65	24.00	23.79	23.44	23.25	23.45	0.0	25.5
			36	0	23.61	23.60	23.39	22.82	23.01	23.16	0.5	25.0
			36	21	23.77	24.26	23.98	23.29	23.25	23.61	0.0	25.5
			36	42	23.13	23.60	23.42	22.90	22.77	23.02	0.5	25.0
		75	0	23.29	23.76	23.42	22.82	22.76	23.13	0.5	25.0	
		QPSK	1	1	24.45	23.93	23.80	23.40	23.70	23.63	0.0	25.5
			1	39	23.86	24.26	24.03	23.36	23.18	23.59	0.0	25.5
			1	76	23.62	23.97	23.78	23.43	23.25	23.41	0.0	25.5
			36	0	23.12	23.13	22.89	22.32	22.54	22.65	1.0	24.5
			36	21	23.77	24.28	23.96	23.30	23.23	23.60	0.0	25.5
			36	42	22.61	23.09	22.94	22.38	22.22	22.48	1.0	24.5
		75	0	22.77	23.27	22.93	22.32	22.27	22.60	1.0	24.5	
16QAM	1	1	23.36	23.05	22.65	22.31	22.57	22.61	1.0	24.5		
64QAM	1	1	21.93	21.15	21.54	20.93	21.08	21.08	2.5	23.0		
256QAM	1	1	20.47	19.87	19.77	19.54	19.77	19.57	4.5	21.0		
CP-OFDM	QPSK	1	1	23.05	22.50	22.41	21.84	22.23	22.21	1.5	24.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					630668	633332	636000	647334	656000	664666		
					3460.02 MHz	3499.98MHz	3540 MHz	3710.01 MHz	3840 MHz	3969.99 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.55	24.09	23.98	23.40	23.69	23.75	0.0	25.5
			1	26	23.76	23.76	23.49	23.07	23.05	23.24	0.0	25.5
			1	49	23.51	23.81	23.55	23.03	23.05	23.18	0.0	25.5
			25	0	23.36	23.74	23.46	22.84	22.87	23.14	0.5	25.0
			25	13	23.95	24.29	23.99	23.33	23.36	23.68	0.0	25.5
			25	26	23.37	23.74	23.47	22.84	22.85	23.18	0.5	25.0
		50	0	23.15	23.64	23.35	22.88	22.92	23.12	0.5	25.0	
		QPSK	1	1	24.50	24.14	23.97	23.39	23.72	23.83	0.0	25.5
			1	26	23.26	23.24	23.03	23.35	23.03	23.03	0.0	25.5
			1	49	23.04	23.30	23.18	23.16	23.05	23.09	0.0	25.5
			25	0	22.85	23.25	22.96	22.36	22.36	22.65	1.0	24.5
			25	13	23.94	24.28	24.03	23.35	23.40	23.68	0.0	25.5
			25	26	22.89	23.25	22.94	22.35	22.38	22.64	1.0	24.5
		50	0	22.70	23.17	22.85	22.38	22.40	22.56	1.0	24.5	
16QAM	1	1	23.56	23.25	22.81	22.38	22.67	22.80	1.0	24.5		
64QAM	1	1	21.94	21.47	21.63	20.80	21.39	21.19	2.5	23.0		
256QAM	1	1	20.34	20.11	20.11	19.39	19.88	19.78	4.5	21.0		
CP-OFDM	QPSK	1	1	23.00	22.68	22.50	21.88	22.27	22.40	1.5	24.0	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					630500	633332	636168	647168	656000	664832		
					3457.5 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840 MHz	3972.48 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.54	24.15	24.03	23.41	23.57	23.64	0.0	25.5
			1	19	24.23	24.29	23.92	23.34	23.29	23.57	0.0	25.5
			1	36	23.92	24.16	23.77	23.29	23.33	23.55	0.0	25.5
			18	0	24.00	23.76	23.45	22.90	23.05	23.14	0.5	25.0
			18	10	24.28	24.30	23.90	23.37	23.33	23.62	0.0	25.5
			18	20	23.57	23.77	23.35	22.78	22.81	23.04	0.5	25.0
		36	0	23.82	23.82	23.39	22.87	22.84	23.07	0.5	25.0	
		QPSK	1	1	24.53	24.16	23.98	23.41	23.63	23.69	0.0	25.5
			1	19	24.24	24.31	23.95	23.42	23.29	23.70	0.0	25.5
			1	36	23.90	24.15	23.79	23.33	23.35	23.60	0.0	25.5
			18	0	23.51	23.23	22.99	22.39	22.48	22.67	1.0	24.5
			18	10	24.30	24.31	23.91	23.34	23.32	23.57	0.0	25.5
			18	20	23.09	23.24	22.85	22.28	22.30	22.55	1.0	24.5
		36	0	23.32	23.31	22.92	22.38	22.37	22.63	1.0	24.5	
16QAM	1	1	23.62	23.13	22.86	22.32	22.49	22.56	1.0	24.5		
64QAM	1	1	22.13	21.78	21.66	21.02	21.21	21.19	2.5	23.0		
256QAM	1	1	20.45	20.17	20.06	19.60	19.64	19.76	4.5	21.0		
CP-OFDM	QPSK	1	1	23.19	22.73	22.55	21.96	22.11	22.07	1.5	24.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					630334	633332	636332	647000	656000	665000		
					3455.01 MHz	3499.98 MHz	3544.98 MHz	3705 MHz	3840 MHz	3975 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.52	24.23	23.98	23.38	23.40	23.62	0.0	25.5
			1	12	24.32	24.29	23.90	23.33	23.27	23.56	0.0	25.5
			1	22	24.10	24.22	23.81	23.26	23.28	23.51	0.0	25.5
			12	0	23.93	23.73	23.44	22.82	22.88	23.11	0.5	25.0
			12	6	24.28	24.31	23.88	23.34	23.26	23.59	0.0	25.5
			12	12	23.69	23.75	23.38	22.81	22.81	23.04	0.5	25.0
		24	0	23.81	23.78	23.40	22.79	22.82	23.07	0.5	25.0	
		QPSK	1	1	24.55	24.22	23.96	23.35	23.40	23.60	0.0	25.5
			1	12	24.28	24.30	23.96	23.34	23.25	23.65	0.0	25.5
			1	22	24.14	24.19	23.83	23.27	23.26	23.58	0.0	25.5
			12	0	23.48	23.29	22.91	22.37	22.37	22.58	1.0	24.5
			12	6	24.32	24.29	23.90	23.32	23.28	23.56	0.0	25.5
			12	12	23.21	23.27	22.86	22.32	22.29	22.56	1.0	24.5
		24	0	23.32	23.27	22.89	22.33	22.24	22.57	1.0	24.5	
16QAM	1	1	23.53	23.12	22.96	22.56	22.33	22.50	1.0	24.5		
64QAM	1	1	22.24	21.77	21.44	20.93	21.03	21.14	2.5	23.0		
256QAM	1	1	20.42	20.24	20.07	19.41	19.48	19.65	4.5	21.0		
CP-OFDM	QPSK	1	1	22.94	22.82	22.54	22.00	22.08	22.11	1.5	24.0	

**NR Band n77(SRS1, ANT C)**

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)						MPR	Tune-up Limit
			SRS1							
			Measured Pwr (dBm)							
100 MHz	1	1	633332		650000	656000	662000	0.0	24.0	
			3499.98MHz		3750 MHz	3840 MHz	3930 MHz			
			23.20		22.62	22.85	22.30	0.0		
90 MHz	1	1	633000	633332	633666	649666	656000	662332		0.0
			3495MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840 MHz	3934.98MHz		
			23.17	23.18	23.14	22.64	22.80	22.25		
80 MHz	1	1	632668	633332	634000	649334	656000	662666		0.0
			3490.02 MHz	3499.98MHz	3510 MHz	3740.01 MHz	3840 MHz	3939.99 MHz		
			23.13	23.13	22.14	22.62	22.81	22.24		
70 MHz	1	1	632334	633332	634332	649000	656000	663000		0.0
			3485.01 MHz	3499.98MHz	3514.98 MHz	3735MHz	3840 MHz	3945MHz		
			23.14	23.15	23.16	22.60	22.82	22.18		
60 MHz	1	1	632000	633332	634666	648668	656000	663332	0.0	
			3480 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840 MHz	3949.98 MHz		
			23.11	23.14	23.19	22.51	22.82	22.13		
50 MHz	1	1	631668	633332	635000	648334	656000	663666	0.0	
			3475.02 MHz	3499.98MHz	3525 MHz	3725.01 MHz	3840 MHz	3954.99 MHz		
			23.19	23.18	23.28	22.52	22.81	22.07		
40 MHz	1	1	631334	633332	635332	648000	656000	664000	0.0	
			3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840 MHz	3960 MHz		
			23.12	23.15	23.30	22.47	22.82	22.05		
30 MHz	1	1	631000	633332	635668	647668	656000	664332	0.0	
			3465 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840 MHz	3964.98 MHz		
			23.13	23.16	23.38	22.45	22.82	21.99		
20 MHz	1	1	630668	633332	636000	647334	656000	664666	0.0	
			3460.02 MHz	3499.98MHz	3540 MHz	3710.01 MHz	3840 MHz	3969.99 MHz		
			23.11	23.13	23.43	22.42	22.79	21.90		
15 MHz	1	1	630500	633332	636168	647168	656000	664832	0.0	
			3457.5 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840 MHz	3972.48 MHz		
			23.05	23.12	23.44	22.38	22.77	21.92		
10 MHz	1	1	630334	633332	636332	647000	656000	665000	0.0	
			3455.01 MHz	3499.98 MHz	3544.98 MHz	3705 MHz	3840 MHz	3975 MHz		
			23.10	23.11	23.51	22.40	22.80	21.96		

**NR Band n77(SRS2, ANT I)**

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)						MPR	Tune-up Limit
			SRS2							
			Measured Pwr (dBm)							
100 MHz	1	1	633332		650000	656000	662000	MPR	21.0	
			3499.98MHz		3750 MHz	3840 MHz	3930 MHz			
			20.47		20.30	20.25	20.20	0.0		
90 MHz	1	1	633000	633332	633666	649666	656000	662332	MPR	21.0
			3495MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840 MHz	3934.98MHz		
			20.51	20.47	20.45	20.31	20.27	20.16	0.0	
80 MHz	1	1	632668	633332	634000	649334	656000	662666	MPR	21.0
			3490.02 MHz	3499.98MHz	3510 MHz	3740.01 MHz	3840 MHz	3939.99 MHz		
			20.55	20.48	20.40	20.28	20.27	20.18	0.0	
70 MHz	1	1	632334	633332	634332	649000	656000	663000	MPR	21.0
			3485.01 MHz	3499.98MHz	3514.98 MHz	3735MHz	3840 MHz	3945MHz		
			20.58	20.52	20.44	20.23	20.26	20.17	0.0	
60 MHz	1	1	632000	633332	634666	648668	656000	663332	MPR	21.0
			3480 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840 MHz	3949.98 MHz		
			20.60	20.50	20.41	20.18	20.30	20.11	0.0	
50 MHz	1	1	631668	633332	635000	648334	656000	663666	MPR	21.0
			3475.02 MHz	3499.98MHz	3525 MHz	3725.01 MHz	3840 MHz	3954.99 MHz		
			20.61	20.50	20.28	20.17	20.32	20.11	0.0	
40 MHz	1	1	631334	633332	635332	648000	656000	664000	MPR	21.0
			3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840 MHz	3960 MHz		
			20.62	20.50	19.67	20.11	20.29	20.05	0.0	
30 MHz	1	1	631000	633332	635668	647668	656000	664332	MPR	21.0
			3465 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840 MHz	3964.98 MHz		
			20.62	20.49	19.72	20.11	20.27	20.00	0.0	
20 MHz	1	1	630668	633332	636000	647334	656000	664666	MPR	21.0
			3460.02 MHz	3499.98MHz	3540 MHz	3710.01 MHz	3840 MHz	3969.99 MHz		
			20.61	20.47	19.75	20.05	20.23	19.94	0.0	
15 MHz	1	1	630500	633332	636168	647168	656000	664832	MPR	21.0
			3457.5 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840 MHz	3972.48 MHz		
			20.62	20.50	19.79	20.07	20.27	19.95	0.0	
10 MHz	1	1	630334	633332	636332	647000	656000	665000	MPR	21.0
			3455.01 MHz	3499.98 MHz	3544.98 MHz	3705 MHz	3840 MHz	3975 MHz		
			20.67	20.51	19.82	20.08	20.29	19.94	0.0	

**NR Band n77(SRS3, ANT D)**

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)						MPR	Tune-up Limit
			SRS3							
			Measured Pwr (dBm)							
100 MHz	1	1	633332		650000	656000	662000	MPR	24.0	
			3499.98MHz		3750 MHz	3840 MHz	3930 MHz			
			22.58		22.32	22.50	22.38	0.0		
90 MHz	1	1	633000	633332	633666	649666	656000	662332	MPR	
			3495MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840 MHz	3934.98MHz		
			22.61	22.60	22.55	22.33	22.46	22.33	0.0	
80 MHz	1	1	632668	633332	634000	649334	656000	662666	MPR	
			3490.02 MHz	3499.98MHz	3510 MHz	3740.01 MHz	3840 MHz	3939.99 MHz		
			22.58	22.55	22.51	22.27	22.51	22.34	0.0	
70 MHz	1	1	632334	633332	634332	649000	656000	663000	MPR	
			3485.01 MHz	3499.98MHz	3514.98 MHz	3735MHz	3840 MHz	3945MHz		
			22.66	22.60	22.55	22.24	22.50	22.33	0.0	
60 MHz	1	1	632000	633332	634666	648668	656000	663332	MPR	
			3480 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840 MHz	3949.98 MHz		
			22.63	22.61	22.54	22.20	22.52	22.31	0.0	
50 MHz	1	1	631668	633332	635000	648334	656000	663666	MPR	
			3475.02 MHz	3499.98MHz	3525 MHz	3725.01 MHz	3840 MHz	3954.99 MHz		
			22.65	22.62	22.60	22.20	22.50	22.26	0.0	
40 MHz	1	1	631334	633332	635332	648000	656000	664000	MPR	
			3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840 MHz	3960 MHz		
			22.62	22.62	22.57	22.17	22.51	22.24	0.0	
30 MHz	1	1	631000	633332	635668	647668	656000	664332	MPR	
			3465 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840 MHz	3964.98 MHz		
			22.63	22.59	22.60	22.10	22.47	22.17	0.0	
20 MHz	1	1	630668	633332	636000	647334	656000	664666	MPR	
			3460.02 MHz	3499.98MHz	3540 MHz	3710.01 MHz	3840 MHz	3969.99 MHz		
			22.60	22.57	22.60	22.14	22.49	22.15	0.0	
15 MHz	1	1	630500	633332	636168	647168	656000	664832	MPR	
			3457.5 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840 MHz	3972.48 MHz		
			22.57	22.57	22.60	22.13	22.47	22.11	0.0	
10 MHz	1	1	630334	633332	636332	647000	656000	665000	MPR	
			3455.01 MHz	3499.98 MHz	3544.98 MHz	3705 MHz	3840 MHz	3975 MHz		
			22.59	22.62	22.67	22.17	22.52	22.14	0.0	

## 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

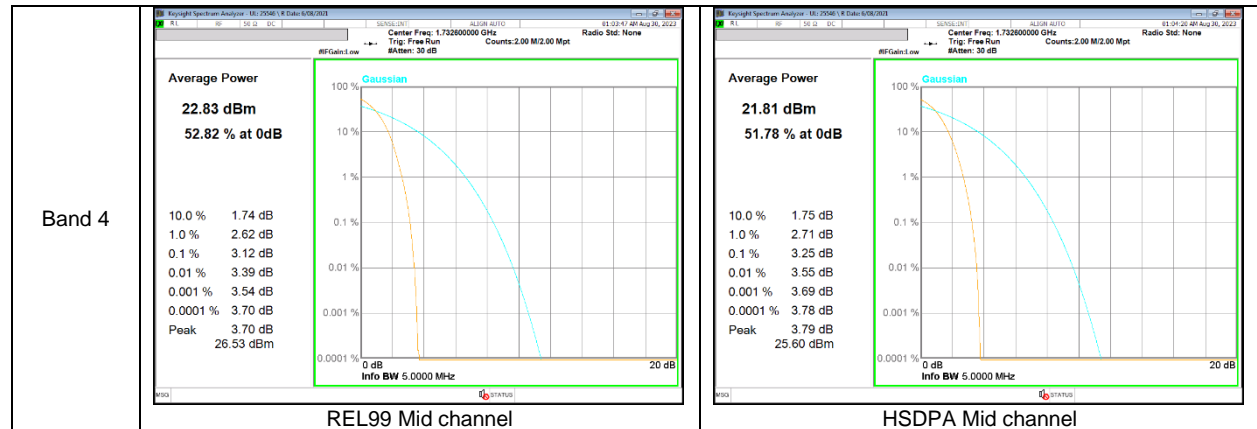
5G NR: All Waveforms (CP-OFDM vs DFT-s\_OFDM) and modulations ( $\pi/2$  BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

### RESULTS

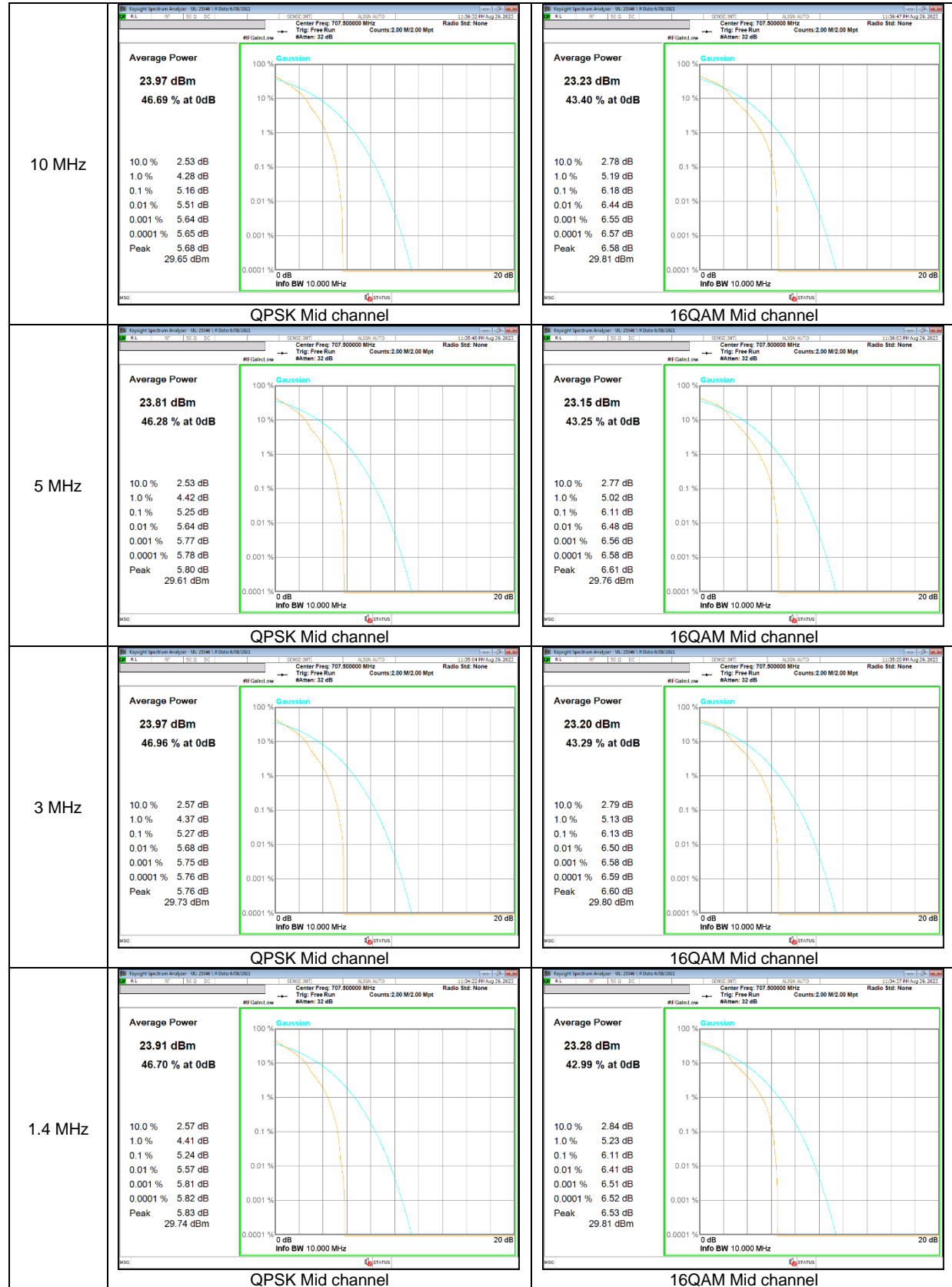
See the following pages.

### 8.2.1. CONDUCTED PEAK TO AVERAGE RESULT

#### WCDMA

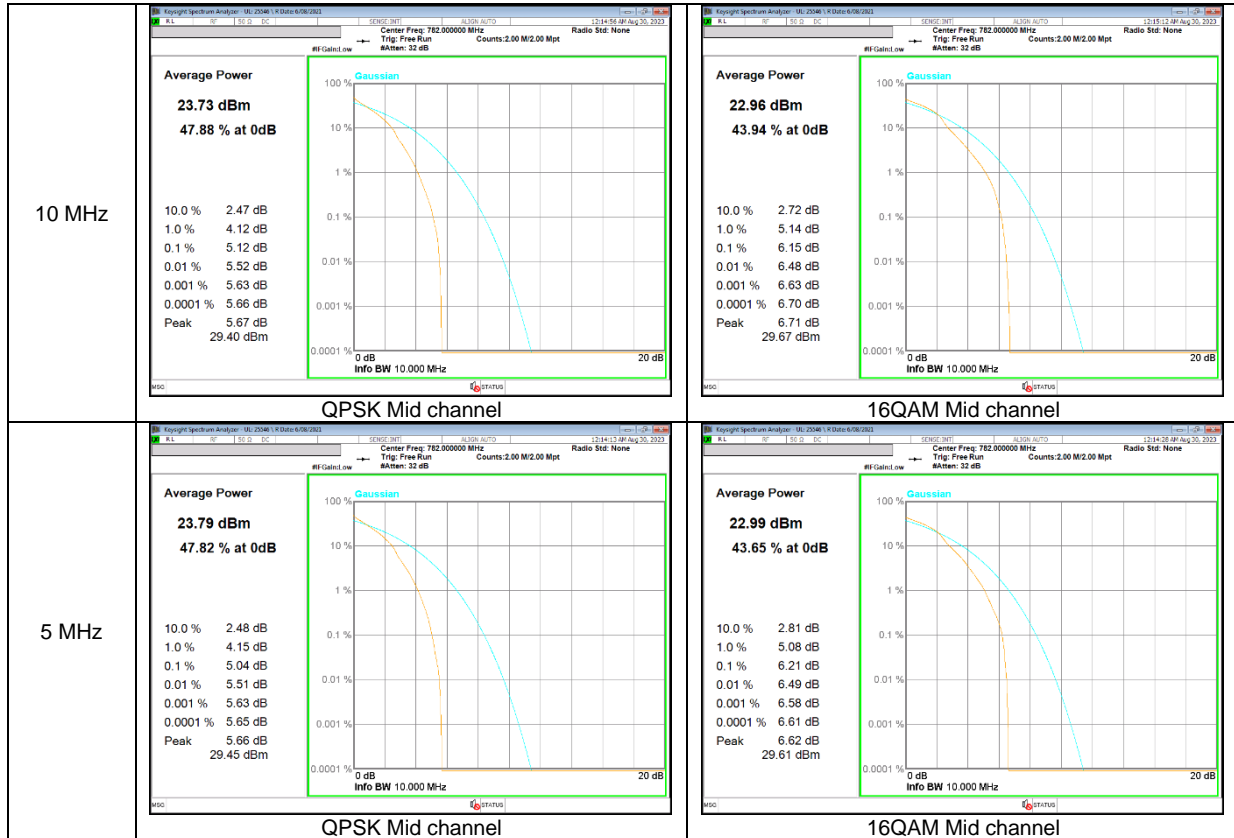


**LTE Band 12**

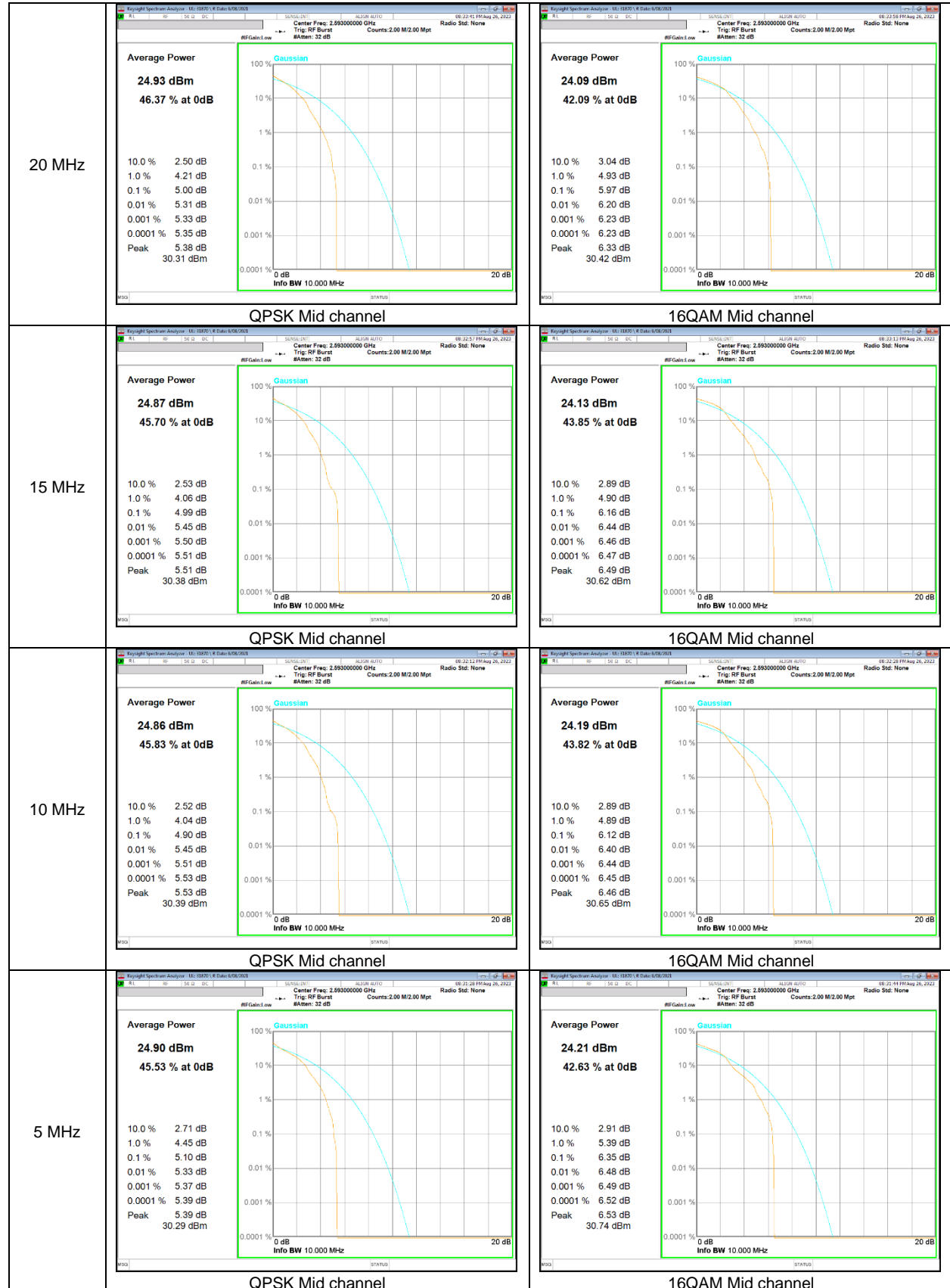




**LTE Band 13**

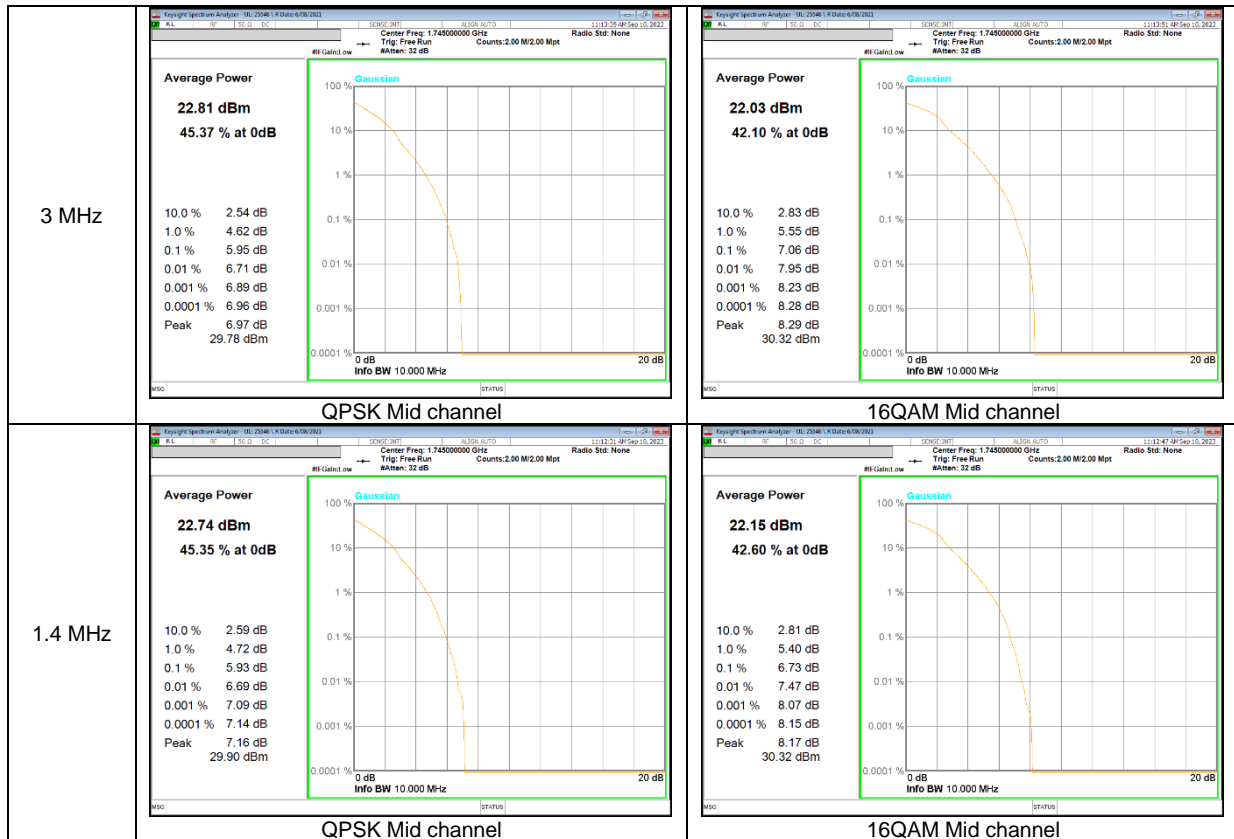


**LTE Band 41(PC2)**

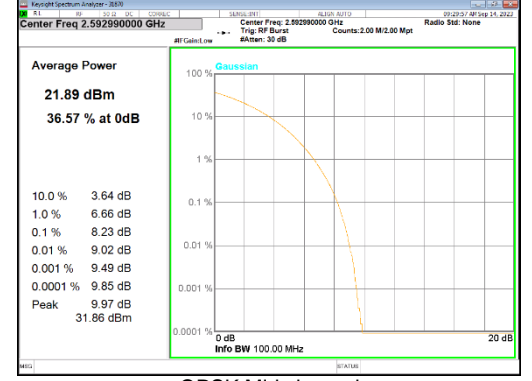
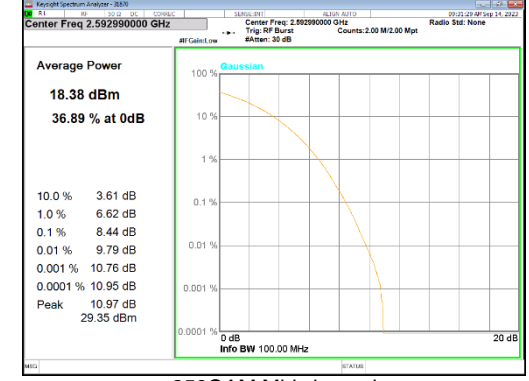
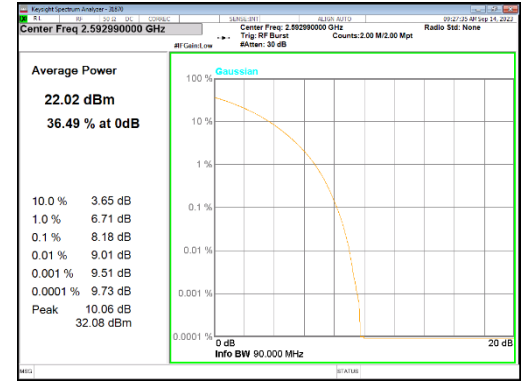
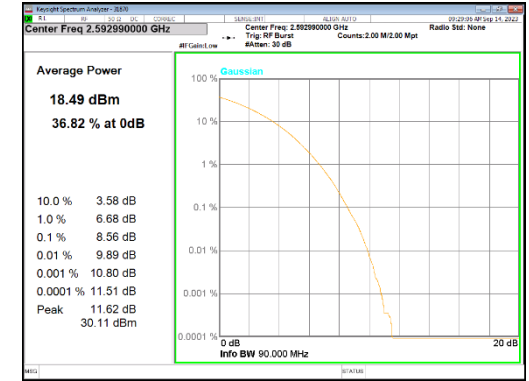
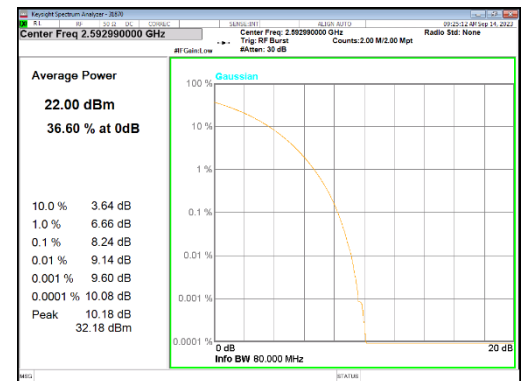
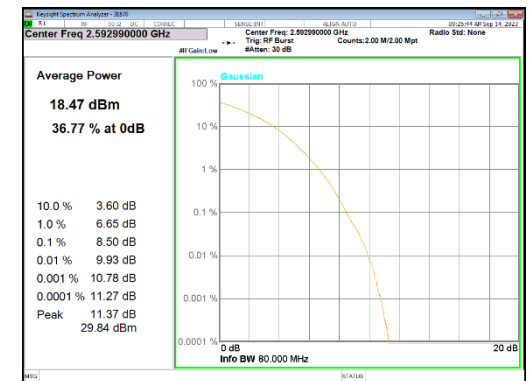


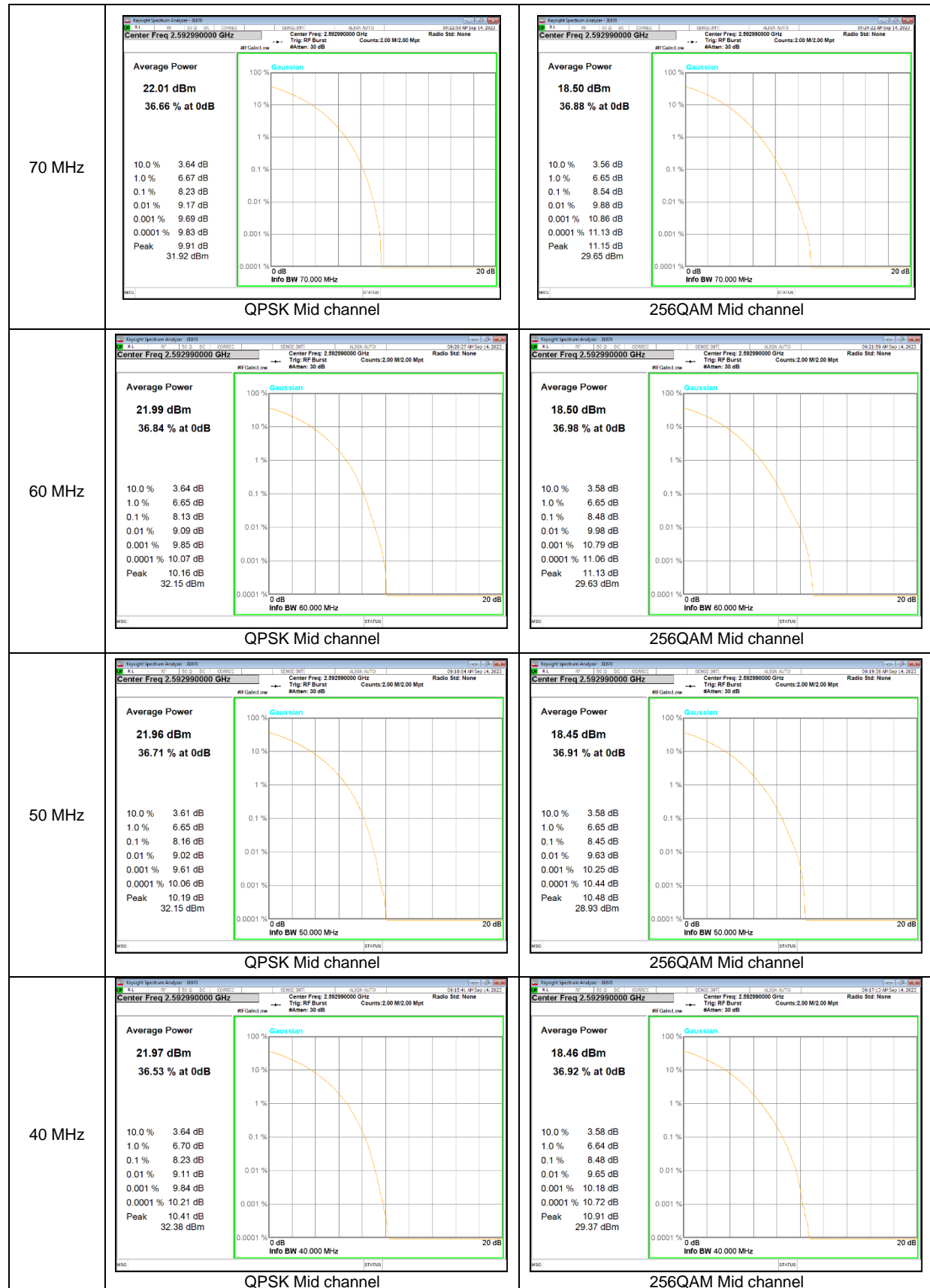
**LTE Band 66**

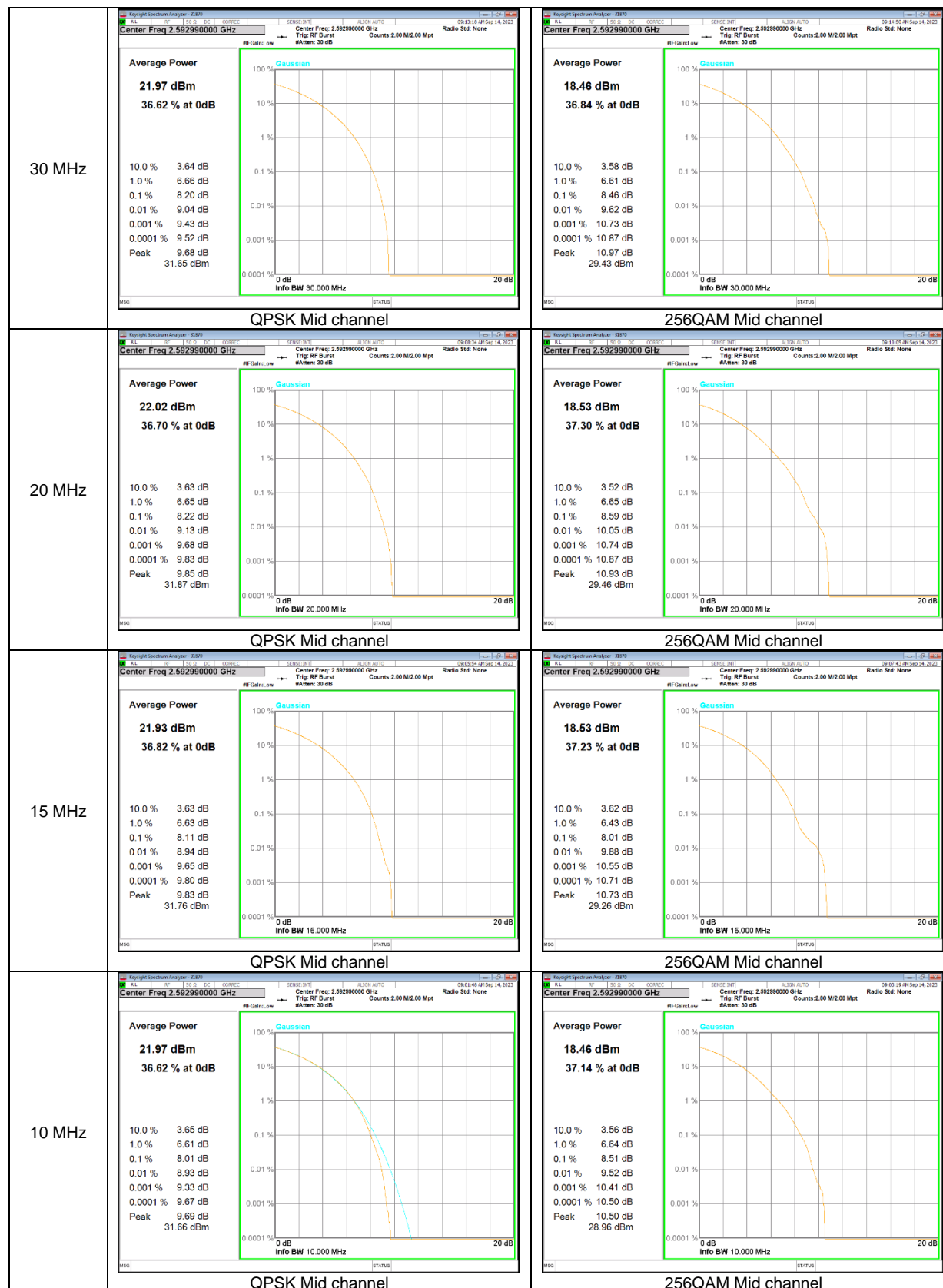




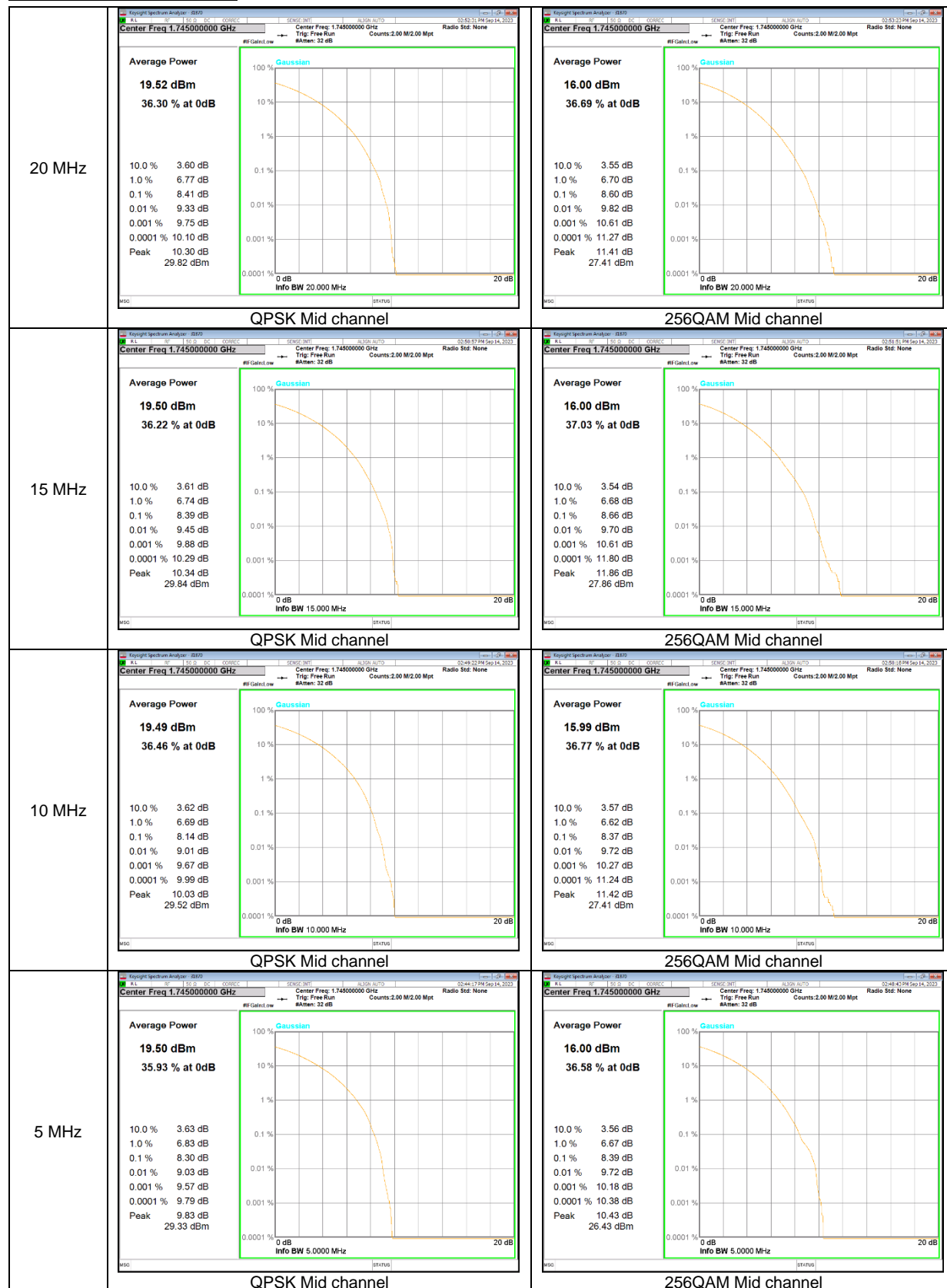
**NR Band n41 (CP-OFDM)**

<p>100 MHz</p>	 <p><b>QPSK Mid channel</b></p>	 <p><b>256QAM Mid channel</b></p>
<p>90 MHz</p>	 <p><b>QPSK Mid channel</b></p>	 <p><b>256QAM Mid channel</b></p>
<p>80 MHz</p>	 <p><b>QPSK Mid channel</b></p>	 <p><b>256QAM Mid channel</b></p>



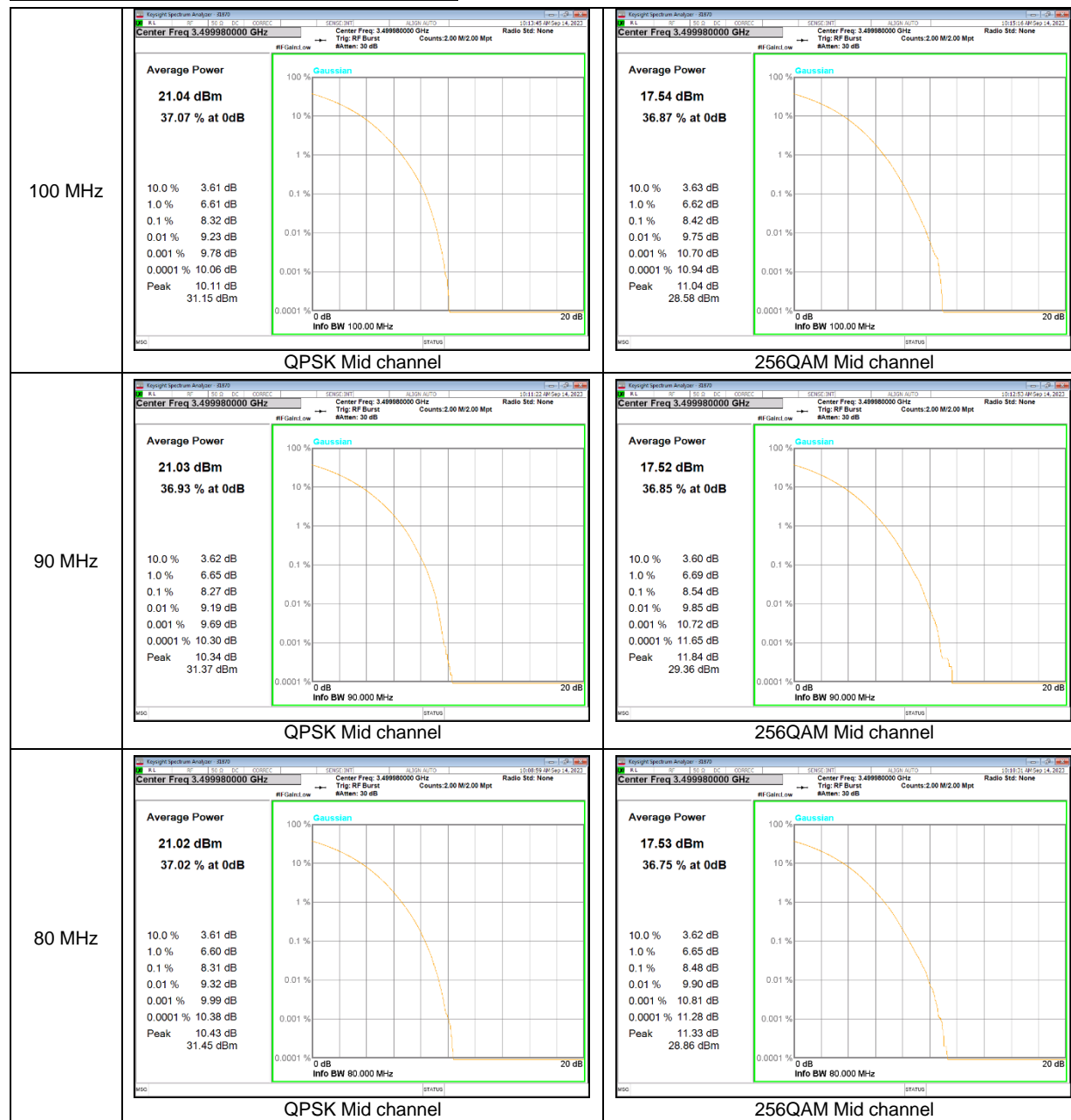


**NR Band n66 CP-OFDM**

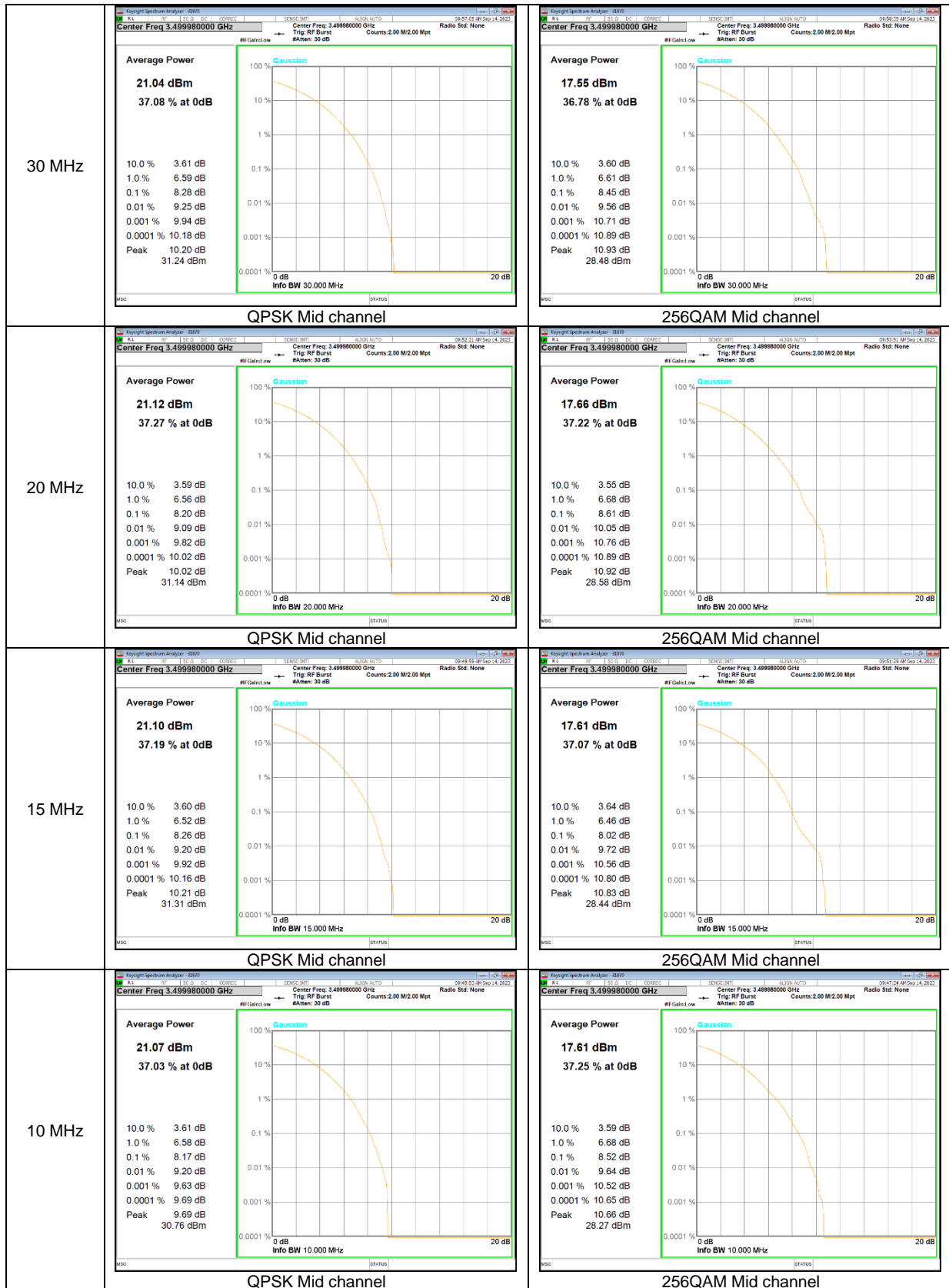




**NR Band n77 CP-OFDM (3450-3550 MHz)**



70 MHz	<p><b>Average Power</b> 21.02 dBm 36.98 % at 0dB</p> <p>10.0 % 3.60 dB 1.0 % 6.60 dB 0.1 % 8.30 dB 0.01 % 9.40 dB 0.001 % 9.92 dB 0.0001 % 10.06 dB Peak 10.12 dB 31.14 dBm</p> <p><b>QPSK Mid channel</b></p>	<p><b>Average Power</b> 17.53 dBm 36.90 % at 0dB</p> <p>10.0 % 3.59 dB 1.0 % 6.65 dB 0.1 % 8.53 dB 0.01 % 9.88 dB 0.001 % 10.84 dB 0.0001 % 11.15 dB Peak 11.15 dB 28.68 dBm</p> <p><b>256QAM Mid channel</b></p>
60 MHz	<p><b>Average Power</b> 21.06 dBm 37.12 % at 0dB</p> <p>10.0 % 3.61 dB 1.0 % 6.60 dB 0.1 % 8.20 dB 0.01 % 9.30 dB 0.001 % 10.09 dB 0.0001 % 10.35 dB Peak 10.37 dB 31.43 dBm</p> <p><b>QPSK Mid channel</b></p>	<p><b>Average Power</b> 17.55 dBm 36.95 % at 0dB</p> <p>10.0 % 3.61 dB 1.0 % 6.65 dB 0.1 % 8.45 dB 0.01 % 9.89 dB 0.001 % 10.75 dB 0.0001 % 11.02 dB Peak 11.08 dB 28.63 dBm</p> <p><b>256QAM Mid channel</b></p>
50 MHz	<p><b>Average Power</b> 21.02 dBm 37.11 % at 0dB</p> <p>10.0 % 3.59 dB 1.0 % 6.59 dB 0.1 % 8.26 dB 0.01 % 9.27 dB 0.001 % 9.81 dB 0.0001 % 10.23 dB Peak 10.37 dB 31.39 dBm</p> <p><b>QPSK Mid channel</b></p>	<p><b>Average Power</b> 17.55 dBm 36.79 % at 0dB</p> <p>10.0 % 3.60 dB 1.0 % 6.66 dB 0.1 % 8.45 dB 0.01 % 9.66 dB 0.001 % 10.26 dB 0.0001 % 10.38 dB Peak 10.39 dB 27.94 dBm</p> <p><b>256QAM Mid channel</b></p>
40 MHz	<p><b>Average Power</b> 21.03 dBm 36.89 % at 0dB</p> <p>10.0 % 3.61 dB 1.0 % 6.62 dB 0.1 % 8.27 dB 0.01 % 9.37 dB 0.001 % 10.29 dB 0.0001 % 10.46 dB Peak 10.47 dB 31.50 dBm</p> <p><b>QPSK Mid channel</b></p>	<p><b>Average Power</b> 17.56 dBm 36.86 % at 0dB</p> <p>10.0 % 3.60 dB 1.0 % 6.66 dB 0.1 % 8.43 dB 0.01 % 9.57 dB 0.001 % 10.18 dB 0.0001 % 10.81 dB Peak 10.84 dB 28.40 dBm</p> <p><b>256QAM Mid channel</b></p>



**NR Band n77 CP-OFDM (3700-3980 MHz)**

