

CERTIFICATION TEST REPORT

Report Number. : S-4791953314-E4V2

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

Model : SC-52G, SCG38

FCC ID : A3LSMS947JPN

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

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

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-12-24	Initial issue	SunGeun Lee
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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/be, NFC, WPT and UWB

MODEL NUMBER: SC-52G, SCG38

SERIAL NUMBER: R3CY90EPDNR, R3CY90EPD5P, R3CY90EPRNP (CONDUCTED);
R3CY90EPFAN, R3CY90EPGSX, R3CY90EPMWP (RADIATED);

DATE TESTED: 2025-12-12 – 2025-12-19;

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 27L,M	Complies

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

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

Approved & Released For
UL KOREA LTD. By:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

Tested By:



Sungeun Lee
Suwon Lab Engineer
UL KOREA LTD.

2. TEST METHODOLOGY

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

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

3. FACILITIES AND ACCREDITATION

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

218 Maeyeong-ro	
☒	Chamber 1(3m semi-anechoic chamber)
☒	Chamber 2(3m semi-anechoic chamber)
☐	Chamber 3(3m semi-anechoic chamber)
☒	Chamber 4(3m Full-anechoic chamber)
☐	Chamber 5(3m Full-anechoic chamber)

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

$\text{For Radiated Spurious Emission (dBm)} = \text{SA reading with EUT worst orientation (dBm)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + \text{Conversion Factor (dB)}$

$\text{SA reading with EUT worst orientation (dBm)} = \text{Measured amplitude level (dBuV)} + 107$

$\text{Conversion Factor} = 107 + 20 \log(D) - 104.8 = 107 + 9.54 - 104.8 = 11.74 \text{ dB}$

where D is the measurement distance (in the far field) in m

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	1.84 dB
Radiated Disturbance, 9 kHz to 30 MHz	2.41 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.69 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.18 dB
Radiated Disturbance, Above 18 GHz	5.07 dB

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

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Clause 4.3.3 in IEC Guide 115:2023.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

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

Representative model	Comparison Criteria	Derivative model
		SCG38
SC-52G	Hardware	Same as SC-52G
	Software	UI modified according to Service Provider specifications

The SC-52G model was used as the representative model for final testing. All test results in this report apply to both the representative model and its derivative variants.

5.2. MAXIMUM OUTPUT POWER

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

LTE Band 41C (UL CA)

FCC Part 27								
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted Power		EIRP	
					Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	Max. Power [W]
41C	B	2506.00 - 2680.00	40MHz (20MHz / 20MHz)	QPSK	23.44	0.221	22.18	0.165
				16QAM	22.62	0.183	21.41	0.138
		2503.50 - 2682.50	35MHz (15MHz / 20MHz)	QPSK	23.29	0.213		
				16QAM	22.56	0.180		
		2503.50 - 2682.50	30MHz (15MHz / 15MHz)	QPSK	23.41	0.219		
				16QAM	22.59	0.181		
		2498.50 - 2680.0	25MHz (5MHz / 20MHz)	QPSK	23.41	0.219		
				16QAM	22.61	0.182		
41C	F	2506.00 - 2680.00	40MHz (20MHz / 20MHz)	QPSK	24.05	0.254	22.37	0.173
				16QAM	23.05	0.202	21.57	0.144
		2503.50 - 2682.50	35MHz (15MHz / 20MHz)	QPSK	23.93	0.247		
				16QAM	22.88	0.194		
		2503.50 - 2682.50	30MHz (15MHz / 15MHz)	QPSK	23.97	0.249		
				16QAM	23.02	0.200		
		2498.50 - 2680.0	25MHz (5MHz / 20MHz)	QPSK	23.81	0.240		
				16QAM	22.95	0.197		

NR Band n41 (PC2)

FCC Part 27												
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted Power		EIRP				
						Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	Max. Power [W]			
n41	B	2546.01 - 2640.00	100	DFT-s OFDM	π/2 BPSK	25.68	0.370					
					QPSK	25.75	0.376	25.28	0.337			
					16QAM	24.64	0.291	24.17	0.261			
					64QAM	22.21	0.166					
					256QAM	20.27	0.106					
				CP-OFDM	QPSK	23.60	0.229					
					16QAM	23.31	0.214					
					64QAM	21.15	0.130					
					256QAM	18.40	0.069					
					π/2 BPSK	25.72	0.373					
		2541.00 - 2644.98	90	DFT-s OFDM	QPSK	25.73	0.374	25.01	0.317			
					16QAM	24.84	0.305	24.15	0.260			
					64QAM	22.87	0.194					
					256QAM	20.93	0.124					
					QPSK	24.17	0.261					
				CP-OFDM	π/2 BPSK	25.61	0.364					
					QPSK	25.54	0.358	24.94	0.312			
					16QAM	24.60	0.288	23.94	0.248			
					64QAM	22.86	0.193					
					256QAM	20.94	0.124					
		2536.02 - 2649.99	80	DFT-s OFDM	QPSK	24.17	0.261					
					π/2 BPSK	25.47	0.352					
					QPSK	25.44	0.350	24.92	0.310			
					16QAM	24.48	0.281	23.78	0.239			
					64QAM	22.66	0.185					
				CP-OFDM	256QAM	20.80	0.120					
					QPSK	24.29	0.269					
					2531.02 - 2654.98	70	DFT-s OFDM	π/2 BPSK	25.45	0.351		
								QPSK	25.43	0.349	24.89	0.308
								16QAM	24.37	0.274	23.65	0.232
		64QAM	22.61	0.182								
		256QAM	20.82	0.121								
		CP-OFDM	QPSK	24.00			0.251					
			2526.00 - 2659.98	60			DFT-s OFDM	π/2 BPSK	25.70	0.372		
								QPSK	25.68	0.370	25.22	0.333
								16QAM	24.79	0.301	23.99	0.251
								64QAM	22.90	0.195		
		256QAM			21.05	0.127						
		CP-OFDM			QPSK	24.29	0.269					
					2521.01 - 2665.00	50	DFT-s OFDM	π/2 BPSK	25.51	0.356		
								QPSK	25.53	0.357	25.01	0.317
								16QAM	24.46	0.279	23.81	0.240
								64QAM	22.69	0.186		
		256QAM	20.88	0.122								
		CP-OFDM	QPSK	24.11			0.258					
			2516.01 - 2670.00	40			DFT-s OFDM	π/2 BPSK	25.62	0.365		
								QPSK	25.64	0.366	25.09	0.323
								16QAM	24.76	0.299	23.90	0.245
								64QAM	22.93	0.196		
		256QAM			21.03	0.127						
		CP-OFDM			QPSK	24.15	0.260					
					2511.00 - 2675.00	30	DFT-s OFDM	π/2 BPSK	25.71	0.372		
								QPSK	25.66	0.368	25.14	0.327
								16QAM	24.58	0.287	23.95	0.248
								64QAM	22.89	0.195		
		256QAM	21.10	0.129								
		CP-OFDM	QPSK	24.22			0.264					
			2508.51 - 2677.50	25			DFT-s OFDM	π/2 BPSK	25.46	0.352		
								QPSK	25.47	0.352	25.04	0.319
								16QAM	24.39	0.275	23.74	0.237
								64QAM	22.65	0.184		
		256QAM			20.79	0.120						
		CP-OFDM			QPSK	23.97	0.249					
					2506.02 - 2679.99	20	DFT-s OFDM	π/2 BPSK	25.47	0.352		
								QPSK	25.47	0.352	25.16	0.328
								16QAM	24.48	0.281	23.72	0.236
								64QAM	22.75	0.188		
		256QAM	20.87	0.122								
		CP-OFDM	QPSK	23.99			0.251					
			2503.50 - 2682.48	15			DFT-s OFDM	π/2 BPSK	25.53	0.357		
								QPSK	25.58	0.361	25.09	0.323
								16QAM	24.48	0.281	23.72	0.236
								64QAM	22.80	0.191		
		256QAM			20.93	0.124						
		CP-OFDM			QPSK	24.05	0.254					

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted Power		EIRP	
						Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	Max. Power [W]
n41	F	2546.01 - 2640.00	100	DFT-s OFDM	$\pi/2$ BPSK	24.60	0.288		
					QPSK	24.75	0.299	26.31	0.428
					16QAM	23.63	0.231	25.18	0.330
					64QAM	22.07	0.161		
					256QAM	19.88	0.097		
				CP-OFDM	QPSK	23.40	0.219		
					16QAM	22.76	0.189		
					64QAM	20.95	0.124		
					256QAM	17.91	0.062		
		2541.00 - 2644.98	90	DFT-s OFDM	$\pi/2$ BPSK	23.97	0.249		
					QPSK	24.09	0.256	26.28	0.425
					16QAM	23.02	0.200	25.03	0.318
					64QAM	21.38	0.137		
					256QAM	19.37	0.086		
				CP-OFDM	QPSK	22.72	0.187		
		2536.02 - 2649.99	80	DFT-s OFDM	$\pi/2$ BPSK	24.16	0.261		
					QPSK	24.20	0.263	26.18	0.415
					16QAM	23.01	0.200	25.35	0.343
					64QAM	21.37	0.137		
					256QAM	19.38	0.087		
				CP-OFDM	QPSK	22.69	0.186		
		2531.02 - 2654.98	70	DFT-s OFDM	$\pi/2$ BPSK	23.92	0.247		
					QPSK	24.11	0.258	26.41	0.438
					16QAM	23.13	0.206	25.43	0.349
					64QAM	21.26	0.134		
					256QAM	19.30	0.085		
				CP-OFDM	QPSK	22.56	0.180		
		2526.00 - 2659.98	60	DFT-s OFDM	$\pi/2$ BPSK	24.04	0.254		
					QPSK	24.08	0.256	26.12	0.409
					16QAM	22.86	0.193	25.14	0.327
					64QAM	21.11	0.129		
					256QAM	19.38	0.087		
				CP-OFDM	QPSK	22.25	0.168		
		2521.01 - 2665.00	50	DFT-s OFDM	$\pi/2$ BPSK	24.07	0.255		
					QPSK	24.07	0.255	26.09	0.406
					16QAM	22.94	0.197	25.02	0.318
					64QAM	21.44	0.139		
					256QAM	19.36	0.086		
				CP-OFDM	QPSK	22.68	0.185		
		2516.01 - 2670.00	40	DFT-s OFDM	$\pi/2$ BPSK	24.10	0.257		
					QPSK	24.15	0.260	26.00	0.398
					16QAM	22.96	0.198	24.94	0.312
					64QAM	21.48	0.141		
					256QAM	19.34	0.086		
				CP-OFDM	QPSK	22.70	0.186		
		2511.00 - 2675.00	30	DFT-s OFDM	$\pi/2$ BPSK	24.06	0.255		
					QPSK	24.18	0.262	25.88	0.387
					16QAM	22.96	0.198	24.81	0.303
					64QAM	21.42	0.139		
					256QAM	19.34	0.086		
				CP-OFDM	QPSK	22.65	0.184		
		2508.51 - 2677.50	25	DFT-s OFDM	$\pi/2$ BPSK	24.01	0.252		
					QPSK	24.04	0.254	25.89	0.388
					16QAM	22.94	0.197	24.84	0.305
					64QAM	21.38	0.137		
					256QAM	19.46	0.088		
				CP-OFDM	QPSK	22.65	0.184		
		2506.02 - 2679.99	20	DFT-s OFDM	$\pi/2$ BPSK	24.01	0.252		
					QPSK	24.09	0.256	25.96	0.394
					16QAM	23.00	0.200	24.85	0.305
					64QAM	21.48	0.141		
					256QAM	19.43	0.088		
				CP-OFDM	QPSK	22.61	0.182		
		2503.50 - 2682.48	15	DFT-s OFDM	$\pi/2$ BPSK	23.99	0.251		
					QPSK	24.05	0.254	25.93	0.392
					16QAM	23.00	0.200	24.92	0.310
					64QAM	21.44	0.139		
					256QAM	19.46	0.088		
				CP-OFDM	QPSK	22.62	0.183		
		2501.01 - 2685.00	10	DFT-s OFDM	$\pi/2$ BPSK	24.03	0.253		
					QPSK	24.17	0.261	25.88	0.387
					16QAM	22.92	0.196	24.86	0.306
					64QAM	21.37	0.137		
					256QAM	19.43	0.088		
				CP-OFDM	QPSK	22.59	0.182		

NR Band n66

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted Power		EIRP	
						Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	Max. Power [W]
n66	A	1730.00 ~ 1760.00	40	DFT-s OFDM	$\pi/2$ BPSK	24.24	0.265		
					QPSK	24.28	0.268	23.37	0.217
					16QAM	23.25	0.211	22.83	0.192
					64QAM	21.75	0.150		
					256QAM	19.53	0.090		
				CP-OFDM	QPSK	22.71	0.187		
					16QAM	22.16	0.164		
					64QAM	20.77	0.119		
					256QAM	17.54	0.057		
					$\pi/2$ BPSK	24.23	0.265		
		1727.50 ~ 1762.50	35	DFT-s OFDM	QPSK	24.23	0.265	22.33	0.171
					16QAM	23.28	0.213	22.77	0.189
					64QAM	21.55	0.143		
					256QAM	19.34	0.086		
					QPSK	22.77	0.189		
				CP-OFDM	$\pi/2$ BPSK	24.28	0.268		
					QPSK	24.29	0.269	23.29	0.213
					16QAM	23.29	0.213	22.77	0.189
					64QAM	21.58	0.144		
					256QAM	19.44	0.088		
		1725.00 ~ 1765.00	30	DFT-s OFDM	QPSK	22.76	0.189		
					$\pi/2$ BPSK	24.28	0.268		
					QPSK	24.25	0.266	23.35	0.216
					16QAM	23.28	0.213	22.84	0.192
					64QAM	21.70	0.148		
					256QAM	19.47	0.089		
				CP-OFDM	QPSK	22.77	0.189		
					$\pi/2$ BPSK	24.22	0.264		
					QPSK	24.28	0.268	23.38	0.218
					16QAM	23.25	0.211	22.83	0.192
					64QAM	21.52	0.142		
		1722.50 ~ 1767.50	25	DFT-s OFDM	256QAM	19.27	0.085		
					QPSK	22.77	0.189		
					$\pi/2$ BPSK	24.28	0.268		
					QPSK	24.26	0.267	23.36	0.217
					16QAM	23.27	0.212	22.85	0.193
					64QAM	21.62	0.145		
					256QAM	19.38	0.087		
				CP-OFDM	QPSK	22.78	0.190		
					$\pi/2$ BPSK	24.26	0.267		
					QPSK	24.28	0.268	23.38	0.218
					16QAM	23.23	0.210	22.81	0.191
					64QAM	21.52	0.142		
		1717.50 ~ 1772.50	15	DFT-s OFDM	256QAM	19.26	0.084		
					QPSK	22.78	0.190		
					$\pi/2$ BPSK	24.27	0.267		
					QPSK	24.29	0.269	23.39	0.218
					16QAM	23.26	0.212	22.84	0.192
					64QAM	21.52	0.142		
					256QAM	19.45	0.088		
				CP-OFDM	QPSK	22.75	0.188		
					$\pi/2$ BPSK	24.27	0.267		
					QPSK	24.28	0.268	23.38	0.218
					16QAM	23.23	0.210	22.81	0.191
					64QAM	21.52	0.142		
		1715.00 ~ 1775.00	10	DFT-s OFDM	256QAM	19.26	0.084		
					QPSK	22.78	0.190		
					$\pi/2$ BPSK	24.26	0.267		
					QPSK	24.28	0.268	23.38	0.218
					16QAM	23.23	0.210	22.81	0.191
					64QAM	21.52	0.142		
					256QAM	19.26	0.084		
				CP-OFDM	QPSK	22.78	0.190		
					$\pi/2$ BPSK	24.27	0.267		
					QPSK	24.29	0.269	23.39	0.218
					16QAM	23.26	0.212	22.84	0.192
					64QAM	21.52	0.142		
		1712.50 ~ 1777.50	5	DFT-s OFDM	256QAM	19.45	0.088		
					QPSK	22.75	0.188		
					$\pi/2$ BPSK	24.27	0.267		
					QPSK	24.29	0.269	23.39	0.218
					16QAM	23.26	0.212	22.84	0.192
					64QAM	21.52	0.142		
					256QAM	19.45	0.088		
				CP-OFDM	QPSK	22.75	0.188		
					$\pi/2$ BPSK	24.27	0.267		
					QPSK	24.28	0.268	23.38	0.218
					16QAM	23.23	0.210	22.81	0.191
					64QAM	21.52	0.142		

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted Power		EIRP	
						Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	Max. Power [W]
n66	F	1730.00 ~ 1760.00	40	DFT-s OFDM	$\pi/2$ BPSK	24.10	0.257		
					QPSK	24.06	0.255	20.23	0.105
					16QAM	23.11	0.205	20.04	0.101
					64QAM	20.73	0.118		
					256QAM	18.59	0.072		
				CP-OFDM	QPSK	22.72	0.187		
					16QAM	22.15	0.164		
					64QAM	19.96	0.099		
					256QAM	17.61	0.058		
		1727.50 ~ 1762.50	35	DFT-s OFDM	$\pi/2$ BPSK	24.08	0.256		
					QPSK	22.88	0.194	19.03	0.080
					16QAM	22.96	0.198	20.12	0.103
					64QAM	21.38	0.137		
					256QAM	19.20	0.083		
				CP-OFDM	QPSK	22.56	0.180		
					$\pi/2$ BPSK	24.13	0.259		
					QPSK	24.12	0.258	19.99	0.100
					16QAM	23.25	0.211	20.07	0.102
					64QAM	21.59	0.144		
					256QAM	19.44	0.088		
		1725.00 ~ 1765.00	30	DFT-s OFDM	QPSK	22.70	0.186		
					$\pi/2$ BPSK	24.13	0.259		
					QPSK	24.15	0.260	20.16	0.104
					16QAM	23.27	0.212	20.06	0.101
					64QAM	21.55	0.143		
					256QAM	19.38	0.087		
				CP-OFDM	QPSK	22.71	0.187		
					$\pi/2$ BPSK	24.08	0.256		
					QPSK	24.05	0.254	19.99	0.100
					16QAM	23.17	0.207	19.93	0.098
					64QAM	21.44	0.139		
					256QAM	19.28	0.085		
		1720.00 ~ 1770.00	20	DFT-s OFDM	QPSK	22.57	0.181		
					$\pi/2$ BPSK	24.19	0.262		
					QPSK	24.17	0.261	20.11	0.103
					16QAM	23.29	0.213	20.02	0.100
					64QAM	21.60	0.145		
					256QAM	19.41	0.087		
				CP-OFDM	QPSK	22.76	0.189		
					$\pi/2$ BPSK	24.26	0.267		
					QPSK	24.29	0.269	20.17	0.104
					16QAM	23.27	0.212	20.06	0.101
					64QAM	21.70	0.148		
					256QAM	19.43	0.088		
		1715.00 ~ 1775.00	10	DFT-s OFDM	QPSK	22.77	0.189		
					$\pi/2$ BPSK	24.08	0.256		
					QPSK	24.11	0.258	19.95	0.099
					16QAM	23.25	0.211	19.90	0.098
					64QAM	21.47	0.140		
					256QAM	19.28	0.085		
				CP-OFDM	QPSK	22.75	0.188		
					$\pi/2$ BPSK	24.08	0.256		
					QPSK	24.11	0.258	19.95	0.099
					16QAM	23.25	0.211	19.90	0.098
					64QAM	21.47	0.140		
					256QAM	19.28	0.085		
		1712.50 ~ 1777.50	5	DFT-s OFDM	QPSK	22.75	0.188		
					$\pi/2$ BPSK	24.08	0.256		
					QPSK	24.11	0.258	19.95	0.099
					16QAM	23.25	0.211	19.90	0.098
					64QAM	21.47	0.140		
					256QAM	19.28	0.085		
				CP-OFDM	QPSK	22.75	0.188		
					$\pi/2$ BPSK	24.08	0.256		
					QPSK	24.11	0.258	19.95	0.099
					16QAM	23.25	0.211	19.90	0.098
					64QAM	21.47	0.140		
					256QAM	19.28	0.085		

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

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

Frequency (MHz)	ANT	Peak Gain (dBi)
LTE Band 41 / NR Band n41 2496 - 2690 MHz	B	-1.1
	F	-2.4
NR Band n66 1710 - 1780 MHz	A	-0.9
	F	-0.7

5.4. WORST-CASE ORIENTATION

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

- **LTE Band**
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.

As for the Antenna Switching supported either Tx Device Hopping conditions. It has been verified. Tx device hopping can be implemented through the application provided by the manufacturer.

Band	Antenna Switching
LTE B41C	Tx Device Hopping

- The RF port of LTE Band 41C are tested on all antennas and reported as 'Sub ANT' because the output power of 'Sub ANT' is same to or higher than 'Main ANT'.

So the test case is as below.

Band	Main ANT	Tune up Limit (dBm)	Sub ANT	Tune up Limit (dBm)
LTE B41 UL CA	B	25.0	<u>F</u>	<u>25.0</u>

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

- NR Bands

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

This device supports NSA and SA Mode and Worst case reported.

So the test case is as below.

NR Band	NSA	SA
n41	-	<u>Stand Alone</u>
n66	<u>LTE B2/12/13</u>	-

- The RF port of NR Band n41, 66 are tested on all antennas and reported as 'Main ANT' because the output power of 'Main ANT' is same to or higher than 'Sub ANT'.

So the test case is as below.

Band	Main ANT	Tune up Limit (dBm)	Sub ANT	Tune up Limit (dBm)
NR n41(PC2)	<u>B</u>	<u>26.5</u>	F	26.0
NR n66	<u>A</u>	<u>24.3</u>	F	24.3

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

● Conducted Spurious Emission

Highest conducted output power setting for each bands						
NR Band	ANT	Frequency (MHz)	Bandwidth (MHz)	Modulation	RB size	RB offset
41 (PC2)	B	2546.01	100	DFT-s OFDM QPSK	1	1
		2592.99			1	1
		2640.00			1	1
66	A	1725.00	30	DFT-s OFDM QPSK	1	79
		1745.00			1	158
		1765.00			1	1

● Uplink CA Conducted Spurious Emission

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

● Radiated Spurious Emission

Highest EIRP setting for each bands						
NR Band	ANT	Frequency (MHz)	Bandwidth (MHz)	Modulation	RB size	RB offset
41 (PC2)	B	2546.01	100	DFT-s OFDM QPSK	1	1
		2592.99			1	1
		2640.00			1	1
	F	2531.02	70	DFT-s OFDM QPSK	1	187
		2592.99			1	94
		2654.98			1	1
66	A	1712.50	5	DFT-s OFDM QPSK	1	23
		1745.00			1	1
		1777.50			1	12
	F	1730.00	40	DFT-s OFDM QPSK	1	1
		1745.00			1	1
		1760.00			1	1

● Uplink CA Radiated Spurious Emission

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

Note1 : for radiated emission testing, EN-DC and ULCA mode were investigated in simultaneous mode. There was no discernible difference in the spurious emission levels when using different LTE and FR1 anchor bands.

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	EIRP			RSE		
		X	Y	Z	X	Y	Z
LTE B41C	B	O	-	-	-	-	O
	F	O	-	-	-	-	O
NR n41 (PC2)	B	O	-	-	-	-	O
	F	O	-	-	-	-	O
NR n66	A	-	O	-	-	O	-
	F	-	-	O	-	-	O

Note1 : For the radiated spurious testing, the EUT attached with travel adapter for the worst case condition. The EUT is continuously communicated with the call box during the tests.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacture	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-T2510	N/A	N/A
Data Cable	SAMSUNG	EP-DN980	N/A	N/A

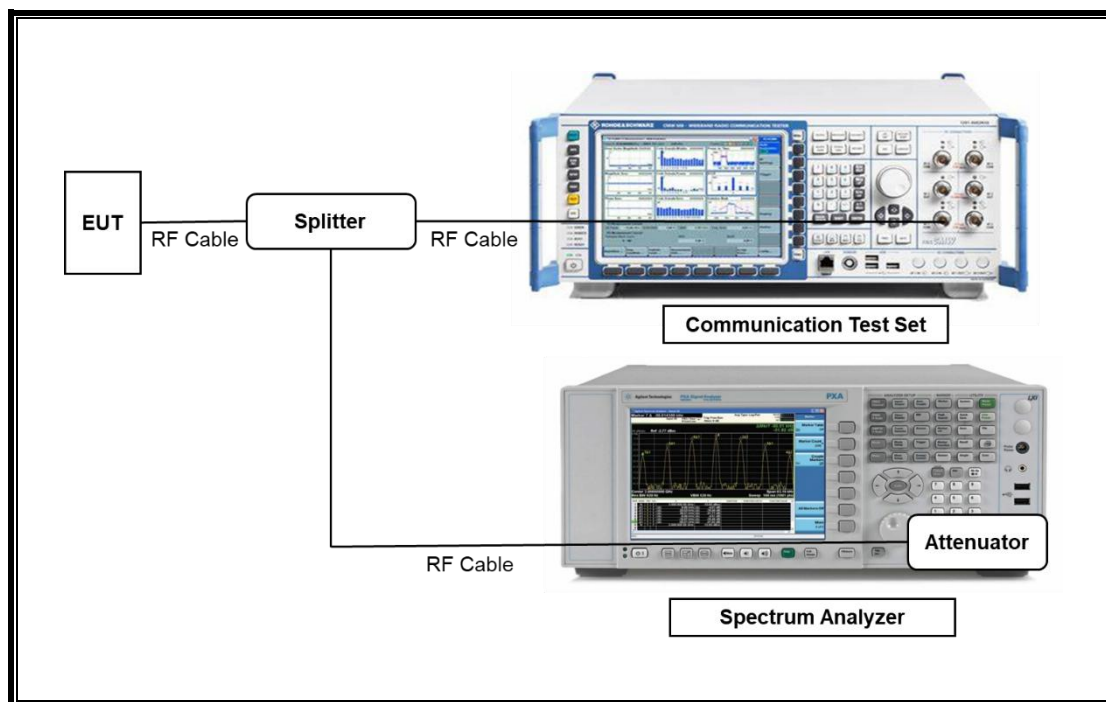
I/O CABLE

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

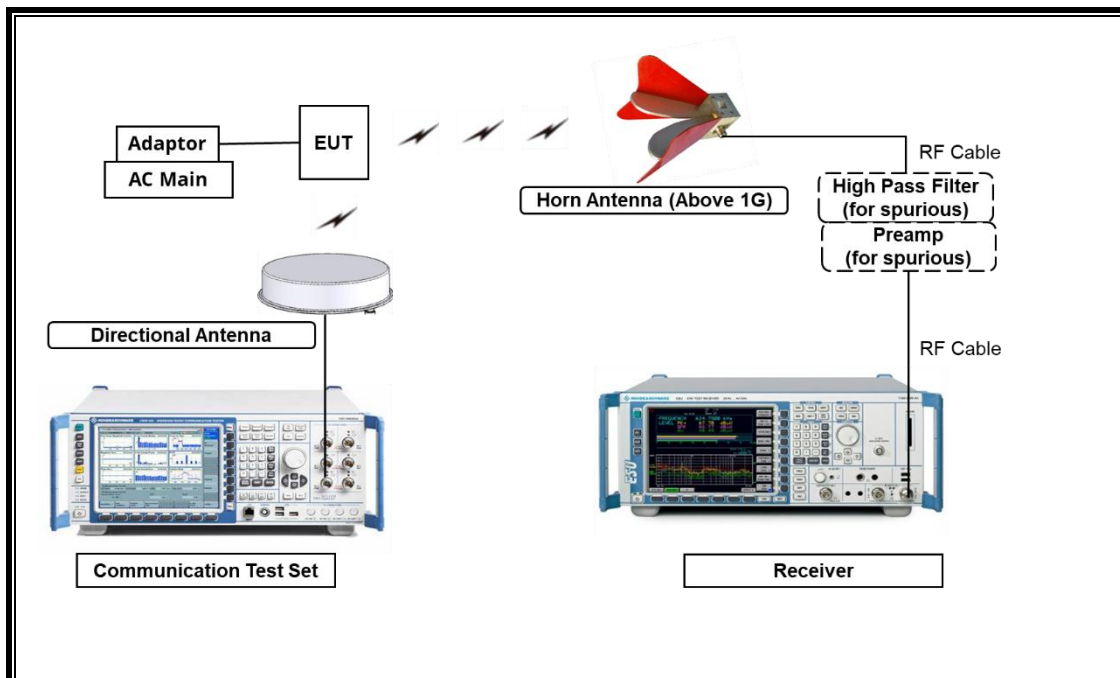
TEST SETUP

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

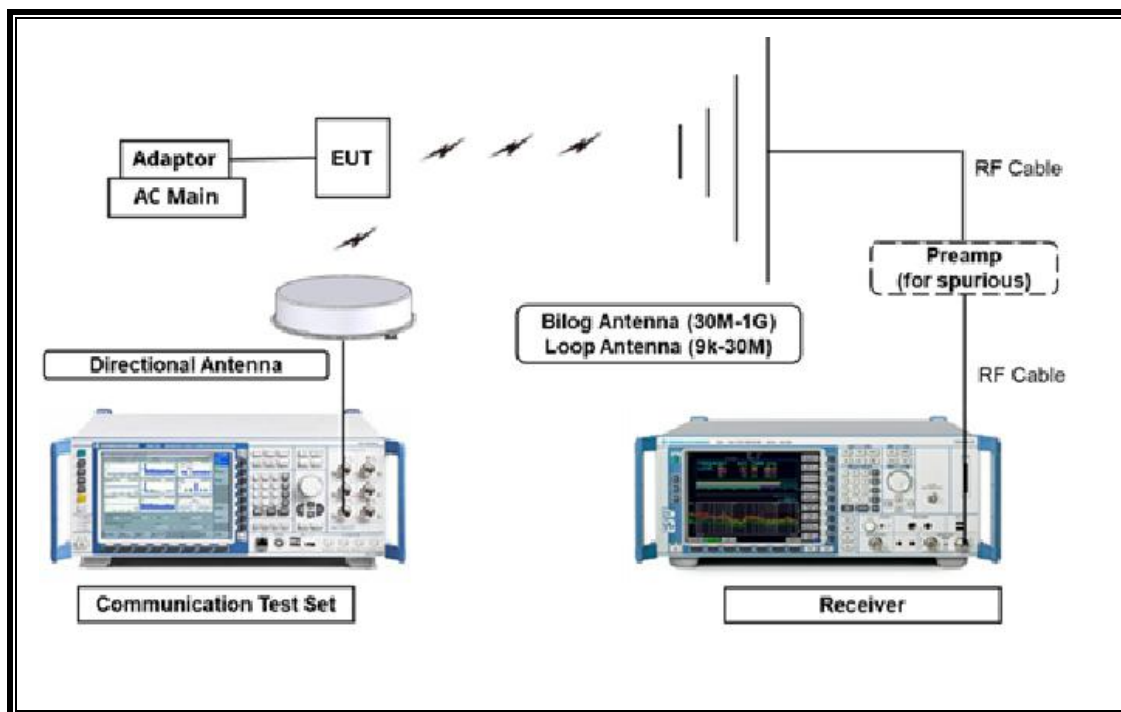
SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP) Above 1G



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP) Below 1G



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 DB-4	00164753	2027-01-08
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	2026-07-23
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2027-07-23
Preamplifier	ETS	3116C-PA	00168841	2026-07-28
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	750	2026-07-30
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	845	2026-07-30
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	749	2026-08-12
Antenna, Horn, 18 GHz	ETS	3115	00167211	2026-07-17
Antenna, Horn, 18 GHz	ETS	3115	00161451	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00168724	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00168717	2026-07-17
Communications Test Set	R&S	CMW500	169797	2026-07-21
DC Power Supply	Agilent / HP	E3640A	MY54226395	2026-07-23
Preamplifier, 1000 MHz	Sonoma	310N	341282	2026-07-21
Preamplifier, 1000 MHz	Sonoma	310N	370599	2026-07-21
Preamplifier, 1000 MHz	Sonoma	310N	351741	2026-07-21
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2026-07-21
Preamplifier, 18 GHz	B&Z Technologies, LLC	BZR-01001800-231040-182020	28451	2026-07-21
Preamplifier, 18 GHz	B&Z Technologies, LLC	BZR-01001800-231040-181515	23576	2026-07-22
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2026-07-21
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2026-01-02
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030B	MY57143717	2026-07-21
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2026-07-21
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2026-07-21
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	2026-07-23
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2026-07-23
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2026-07-23
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2026-07-23
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2026-07-23
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2026-07-23
Attenuator	PASTERNAK	PE7087-10	A009	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A001	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A008	2026-07-22
Attenuator	PASTERNAK	PE7004-10	2	2026-07-22
Attenuator	PASTERNAK	PE7395-10	A011	2026-07-22
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2E	100900	2027-07-24
Temperature Chamber	ESPEC	SH-642	93001109	2026-07-21
Power Splitter	MINI-CIRCUITS	WA1534	UL003	2026-01-03
Power Splitter	MINI-CIRCUITS	WA1534	UL004	2026-01-03
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY57510655	2026-01-03
Notch Filter	MICRO-TRONICS	BRC50705-02	G024	2026-07-23
Notch Filter	MICRO-TRONICS	BRM50702-02	G036	2026-07-23
Notch Filter	MICRO-TRONICS	BRM50707-02	G002	2026-07-23
Notch Filter	MICRO-TRONICS	BRM50709-02	G001	2026-07-23
Notch Filter	MICRO-TRONICS	BRM50713-02	G001	2026-07-23
Notch Filter	MICRO-TRONICS	BRM50716-2	006	2026-07-23
UL Software				
Description	Manufacturer	Model	Version	
Antenna port test software	UL	CLT	Ver 3.4	
Radiated software	UL	UL EMC	Ver 9.5	
Antenna port test software (5G NR FR1)	UL	UL iM	Ver 1.06	

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Results
2.1046	Conducted Output Power	N/A	Conducted	Complies
2.1049	Occupied Bandwidth (99%)	N/A		Complies
27.53(h)	Conducted Band Edge / Conducted Spurious Emission	-13 dBm		Complies
27.53(m)		-25 dBm		Complies
27.53(a),(m)	Emission Mask	Section 8.4.2		Complies
27.54	Frequency Stability	2.5 ppm		Complies
27.50(h)(2)	Effective Isotropic Radiated Power	33 dBm	Radiated	Complies
27.50(d)(4)		30 dBm		Complies
27.53(h)	Radiated Spurious Emission	-13 dBm		Complies
27.53(m)		-25 dBm		Complies

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.

NOTE1

LTE, 5G NR : Conducted output power has been verified across Low, Mid, and High channels for each resource block configuration. Compliance of MPR (Maximum Power Reduction) and Tune-up limits has also been confirmed. Therefore, representative measurements at 1 RB and Full RB configurations are reported for each channel.

NOTE2

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

RESULTS

See the following pages.

8.1.1. CONDUCTED AVERAGE OUTPUT POWER

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

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
40MHz (20MHz / 20MHz)	2506.00	2525.80	1	99	1	0	23.44	22.62
			1	0	1	99	14.30	14.40
			100	0	100	0	21.58	20.58
	2583.10	2602.90	1	99	1	0	23.28	22.31
			1	0	1	99	14.76	14.69
			100	0	100	0	21.50	20.49
	2660.20	2680.00	1	99	1	0	22.81	22.04
			1	0	1	99	14.42	14.48
			100	0	100	0	21.08	20.11

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
35MHz (15MHz / 20MHz)	2503.50	2520.60	1	74	1	0	23.29	22.56
			1	0	1	99	14.57	14.65
			75	0	100	0	21.66	20.66
	2583.20	2600.30	1	74	1	0	23.22	22.46
			1	0	1	99	14.93	14.97
			75	0	100	0	21.48	20.45
	2662.90	2680.00	1	74	1	0	22.87	21.83
			1	0	1	99	14.52	14.49
			75	0	100	0	21.14	20.18

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
30MHz (15MHz / 15MHz)	2503.50	2518.50	1	74	1	0	23.41	22.59
			1	0	1	74	14.65	14.73
			75	0	75	0	21.59	20.63
	2585.50	2600.50	1	74	1	0	23.21	22.45
			1	0	1	74	14.91	14.92
			75	0	75	0	21.43	20.50
	2667.50	2682.50	1	74	1	0	22.78	21.92
			1	0	1	74	14.50	14.54
			75	0	75	0	21.03	20.08

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
25MHz (5MHz / 20MHz)	2498.50	2510.20	1	24	1	0	23.41	22.61
			1	0	1	99	14.63	14.64
			25	0	100	0	21.70	20.65
	2583.60	2595.30	1	24	1	0	23.38	22.35
			1	0	1	99	14.82	14.91
			25	0	100	0	21.41	20.47
	2668.30	2680.00	1	24	1	0	22.96	21.87
			1	0	1	99	14.48	14.63
			25	0	100	0	21.08	20.06

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

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
40MHz (20MHz / 20MHz)	2506.00	2525.80	1	99	1	0	24.05	23.05
			1	0	1	99	15.31	15.38
			100	0	100	0	21.96	20.97
	2583.10	2602.90	1	99	1	0	23.95	22.81
			1	0	1	99	15.26	15.28
			100	0	100	0	21.88	20.91
	2660.20	2680.00	1	99	1	0	23.96	22.98
			1	0	1	99	15.33	15.39
			100	0	100	0	21.98	21.02

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
35MHz (15MHz / 20MHz)	2503.50	2520.60	1	74	1	0	23.83	22.78
			1	0	1	99	15.33	15.44
			75	0	100	0	21.97	20.98
	2583.20	2600.30	1	74	1	0	23.75	22.88
			1	0	1	99	15.35	15.40
			75	0	100	0	21.92	20.97
	2662.90	2680.00	1	74	1	0	23.93	22.81
			1	0	1	99	15.45	15.43
			75	0	100	0	22.03	21.01

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
30MHz (15MHz / 15MHz)	2503.50	2518.50	1	74	1	0	23.97	22.82
			1	0	1	74	15.39	15.44
			75	0	75	0	21.94	20.97
	2585.50	2600.50	1	74	1	0	23.81	22.80
			1	0	1	74	15.35	15.26
			75	0	75	0	21.95	20.81
	2667.50	2682.50	1	74	1	0	23.95	23.02
			1	0	1	74	15.47	15.49
			75	0	75	0	22.02	20.95

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
25MHz (5MHz / 20MHz)	2498.50	2510.20	1	24	1	0	23.74	22.81
			1	0	1	99	15.33	15.22
			25	0	100	0	21.92	20.89
	2583.60	2595.30	1	24	1	0	23.77	22.85
			1	0	1	99	15.28	15.33
			25	0	100	0	21.90	20.86
	2668.30	2680.00	1	24	1	0	23.81	22.95
			1	0	1	99	15.45	15.40
			25	0	100	0	21.94	20.96

NR Band n41 (PC2) (ANT B)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	509202	518598	528000
					2546.01 MHz	2592.99 MHz	2640.00 MHz
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.10	21.08	21.32
			1	1	25.68	24.90	25.08
			1	136	25.20	24.95	24.67
			1	271	25.43	24.89	24.66
			1	272	21.77	21.08	20.83
			270	0	24.91	24.44	24.34
		QPSK	1	0	22.12	21.17	21.30
			1	1	25.75	24.88	25.10
			1	136	25.13	24.86	24.66
			1	271	25.29	24.86	24.55
			1	272	21.53	21.13	20.84
			270	0	24.41	23.88	23.74
		16QAM	1	0	22.06	21.24	21.48
			1	1	24.64	23.90	24.11
			1	136	24.15	23.86	23.73
			1	271	24.44	23.79	23.49
			1	272	21.52	21.26	20.99
			270	0	23.25	22.89	22.90
		64QAM	1	1	22.05	22.12	22.21
		256QAM	1	1	20.22	20.22	20.27
	CP-OFDM	QPSK	1	0	21.30	21.33	21.23
			1	1	23.52	23.60	23.57
			1	137	23.47	23.38	23.43
			1	271	23.18	23.32	23.28
			1	272	21.16	21.13	21.17
			270	0	22.00	21.86	21.88
		16QAM	1	0	21.23	21.42	21.41
			1	1	22.94	23.31	23.04
			1	137	22.97	23.04	22.88
			1	271	22.79	23.02	22.75
			1	272	21.29	21.32	21.35
			270	0	21.93	21.90	21.98
		64QAM	1	1	21.02	21.15	21.04
		256QAM	1	1	18.23	18.40	18.38
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	508200	518598	528996
					2541.00 MHz	2592.99 MHz	2644.98 MHz
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.14	21.20	21.41
			1	1	25.72	24.82	25.01
			1	123	25.20	24.92	24.57
			1	243	25.33	24.69	24.42
			1	244	21.81	21.17	20.86
			243	0	24.86	24.35	24.09
		QPSK	1	0	22.16	21.30	21.37
			1	1	25.73	24.84	24.89
			1	123	25.16	24.84	24.58
			1	243	25.26	24.65	24.42
			1	244	21.71	21.13	20.89
			243	0	24.34	23.77	23.54
		16QAM	1	1	24.84	23.77	23.84
			1	123	24.06	23.74	23.36
			1	243	24.29	23.72	23.44
			1	1	22.87	22.03	22.09
		64QAM	1	1	20.93	20.14	20.27
		256QAM	1	1	20.93	20.14	20.27
	CP-OFDM	QPSK	1	1	24.17	23.48	23.63

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	507204	518598	529998
					2536.02 MHz	2592.99 MHz	2649.99 MHz
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.04	21.17	21.20
			1	1	25.61	24.79	24.79
			1	108	25.14	24.82	24.41
			1	215	25.25	24.69	24.35
			1	216	21.58	21.04	20.70
		QPSK	216	0	24.83	24.34	24.04
			1	0	22.01	21.18	21.14
			1	1	25.54	24.75	24.79
			1	108	25.08	24.78	24.43
			1	215	25.19	24.66	24.38
			1	216	21.59	21.06	20.78
			216	0	24.30	23.81	23.59
		16QAM	1	1	24.60	23.71	23.82
			1	108	24.12	23.74	23.52
			1	215	24.20	23.59	23.33
		64QAM	1	1	22.86	22.02	21.92
		256QAM	1	1	20.94	20.05	20.11
	CP-OFDM	QPSK	1	1	24.17	23.45	23.44
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	506202	518598	531000
					2531.02 MHz	2592.99 MHz	2655.00 MHz
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.88	21.03	21.06
			1	1	25.47	24.69	24.68
			1	94	25.08	24.80	24.37
			1	187	25.20	24.66	24.29
			1	188	21.54	21.06	20.70
		QPSK	180	0	24.85	24.38	24.08
			1	0	21.90	21.09	21.07
			1	1	25.44	24.68	24.64
			1	94	25.05	24.77	24.33
			1	187	25.18	24.67	24.25
			1	188	21.59	21.06	20.70
			180	0	24.27	23.87	23.55
		16QAM	1	1	24.48	23.65	23.71
			1	94	24.00	23.75	23.27
			1	187	24.05	23.60	23.34
		64QAM	1	1	22.66	21.92	21.82
		256QAM	1	1	20.80	20.00	20.00
	CP-OFDM	QPSK	1	1	24.29	23.32	23.36
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	505200	518598	513996
					2526.00 MHz	2592.99 MHz	2659.98 MHz
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.83	21.04	20.90
			1	1	25.45	24.61	24.46
			1	80	25.09	24.70	24.25
			1	160	25.13	24.67	24.24
			1	161	21.50	21.09	20.65
		QPSK	162	0	24.77	24.26	23.97
			1	0	21.87	21.06	20.92
			1	1	25.43	24.73	24.53
			1	80	25.02	24.72	24.31
			1	160	25.12	24.68	24.23
			1	161	21.59	21.10	20.67
			162	0	24.23	23.73	23.41
		16QAM	1	1	24.37	23.55	23.54
			1	80	23.93	23.69	23.38
			1	160	24.04	23.71	23.27
		64QAM	1	1	22.61	21.77	21.65
		256QAM	1	1	20.82	20.09	19.82
	CP-OFDM	QPSK	1	1	24.00	23.38	23.08

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	504204	518598	532998
					2521.01 MHz	2592.99 MHz	2665.00 MHz
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.05	21.35	21.13
			1	1	25.70	24.91	24.76
			1	66	25.45	24.94	24.49
			1	131	25.41	24.93	24.49
			1	132	21.76	21.46	20.92
			128	0	24.96	24.51	24.13
		QPSK	1	0	22.17	21.39	21.18
			1	1	25.68	24.96	24.74
			1	66	25.38	24.94	24.52
			1	131	25.38	25.06	24.55
			1	132	21.86	21.48	20.95
			128	0	24.45	24.02	23.65
		16QAM	1	1	24.79	23.95	23.52
			1	66	24.53	23.93	23.53
			1	131	24.43	23.93	23.56
		64QAM	1	1	22.90	22.13	21.91
		256QAM	1	1	21.05	20.32	20.08
	CP-OFDM	QPSK	1	1	24.29	23.62	23.35
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	503202	518598	534000
					2516.01 MHz	2592.99 MHz	2670.00 MHz
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.84	21.15	20.79
			1	1	25.51	24.77	24.37
			1	52	25.44	24.81	24.37
			1	104	25.12	24.76	24.31
			1	105	21.50	21.29	20.65
			100	0	24.99	24.38	24.00
		QPSK	1	0	21.94	21.14	20.86
			1	1	25.53	24.79	24.41
			1	52	25.30	24.85	24.36
			1	104	25.18	24.75	24.31
			1	105	21.56	21.20	20.73
			100	0	24.48	23.85	23.45
		16QAM	1	1	24.46	23.83	23.35
			1	52	24.25	23.89	23.35
			1	104	24.02	23.89	23.25
		64QAM	1	1	22.69	21.88	21.56
		256QAM	1	1	20.88	20.09	19.78
	CP-OFDM	QPSK	1	1	24.11	23.28	23.01
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	502200	518598	534996
					2511.00 MHz	2592.99 MHz	2675.00 MHz
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.05	21.28	20.83
			1	1	25.62	24.84	24.45
			1	39	25.46	24.87	24.32
			1	76	25.28	24.94	24.42
			1	77	21.66	21.35	20.78
			75	0	25.04	24.43	23.99
		QPSK	1	0	22.08	21.31	20.91
			1	1	25.64	24.87	24.47
			1	39	25.43	24.83	24.30
			1	76	25.25	24.93	24.37
			1	77	21.72	21.37	20.77
			75	0	24.52	23.93	23.48
		16QAM	1	1	24.76	23.86	23.56
			1	39	24.53	23.95	23.47
			1	76	24.39	23.98	23.25
		64QAM	1	1	22.93	22.02	21.67
		256QAM	1	1	21.03	20.27	19.87
	CP-OFDM	QPSK	1	1	24.15	23.45	23.04

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	501702	518598	534996
					2508.51 MHz	2592.99 MHz	2675.00 MHz
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.09	21.40	20.85
			1	1	25.71	25.02	24.45
			1	32	25.59	24.96	24.45
			1	63	25.39	24.95	24.39
			1	64	21.79	21.36	20.77
		QPSK	64	0	25.06	24.42	23.93
			1	0	22.08	21.43	20.89
			1	1	25.66	24.98	24.41
			1	32	25.54	24.93	24.43
			1	63	25.41	24.96	24.40
			1	64	21.88	21.39	20.79
			64	0	24.53	23.88	23.39
		16QAM	1	1	24.58	24.03	23.41
			1	32	24.57	23.80	23.27
			1	63	24.31	23.89	23.28
		64QAM	1	1	22.89	22.10	21.56
		256QAM	1	1	21.10	20.39	19.81
	CP-OFDM	QPSK	1	1	24.22	23.49	22.92
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	501204	518598	535998
					2506.02 MHz	2592.99 MHz	2679.99 MHz
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.86	21.29	20.55
			1	1	25.46	24.84	24.21
			1	26	25.45	24.86	24.23
			1	49	25.27	24.89	24.16
			1	50	21.64	21.18	20.53
		QPSK	50	0	24.94	24.36	23.70
			1	0	21.83	21.26	20.64
			1	1	25.44	24.88	24.20
			1	26	25.47	24.80	24.19
			1	49	25.29	24.86	24.16
			1	50	21.78	21.27	20.61
		16QAM	50	0	24.44	23.84	23.21
			1	1	24.30	23.76	23.11
			1	26	24.39	23.76	23.28
			1	49	24.24	23.82	23.25
		64QAM	1	1	22.65	22.07	21.57
		256QAM	1	1	20.79	20.20	19.51
	CP-OFDM	QPSK	1	1	23.97	23.49	22.73
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	500700	518598	536496
					2503.50 MHz	2592.99 MHz	2682.48 MHz
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.86	21.36	20.63
			1	1	25.47	24.89	24.24
			1	19	25.47	24.87	24.24
			1	36	25.37	25.00	24.26
			1	37	21.77	21.43	20.73
		QPSK	36	0	25.00	24.39	23.80
			1	0	21.89	21.39	20.72
			1	1	25.47	24.91	24.22
			1	19	25.45	24.87	24.28
			1	36	25.42	25.00	24.35
			1	37	21.84	21.39	20.69
		16QAM	36	0	24.50	23.91	23.21
			1	1	24.58	23.95	23.13
			1	19	24.57	23.93	23.29
			1	36	24.26	23.99	23.19
		64QAM	1	1	22.75	22.09	21.51
		256QAM	1	1	20.87	20.31	19.60
	CP-OFDM	QPSK	1	1	23.99	23.48	22.79

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	500202	518598	537000
					2501.01 MHz	2592.99 MHz	2685.00 MHz
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.87	21.26	20.67
			1	1	25.53	24.95	24.33
			1	12	25.45	24.88	24.20
			1	22	25.51	24.86	24.22
			1	23	21.83	21.21	20.65
		QPSK	24	0	25.01	24.36	23.69
			1	0	21.96	21.29	20.64
			1	1	25.58	24.93	24.24
			1	12	25.49	24.87	24.28
			1	22	25.48	24.87	24.33
			1	23	21.93	21.27	20.73
			24	0	24.49	23.87	23.20
		16QAM	1	1	24.46	23.75	23.32
			1	12	24.41	23.71	23.36
			1	22	24.48	23.80	23.29
		64QAM	1	1	22.80	22.13	21.52
		256QAM	1	1	20.93	20.22	19.67
	CP-OFDM	QPSK	1	1	24.05	23.49	22.84

NR Band n41 (PC2) (ANT F)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	509202	518598	528000
					2546.01 MHz	2592.99 MHz	2640.00 MHz
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.21	20.65	20.88
			1	1	23.86	24.27	24.50
			1	136	24.11	24.53	24.46
			1	271	24.09	24.60	24.52
			1	272	20.48	20.85	20.77
			270	0	23.43	24.00	24.06
		QPSK	1	0	20.23	20.60	20.88
			1	1	23.89	24.24	24.58
			1	136	23.89	24.49	24.38
			1	271	24.12	24.75	24.51
			1	272	20.39	20.93	20.87
			270	0	23.07	23.44	23.65
		16QAM	1	0	20.22	20.72	20.97
			1	1	22.90	23.22	23.63
			1	136	22.84	23.40	23.48
			1	271	22.99	23.50	23.54
			1	272	20.39	20.86	20.89
			270	0	22.49	22.50	22.48
		64QAM	1	1	21.82	22.07	22.06
		256QAM	1	1	19.54	19.88	19.83
	CP-OFDM	QPSK	1	0	20.72	20.76	20.66
			1	1	22.98	22.91	23.01
			1	137	23.15	23.05	23.12
			1	271	23.36	23.40	23.36
			1	272	20.97	21.03	21.06
			270	0	21.48	21.49	21.52
		16QAM	1	0	20.58	20.77	20.64
			1	1	22.33	22.42	22.38
			1	137	22.44	22.55	22.27
			1	271	22.55	22.76	22.58
			1	272	20.92	20.97	20.78
			270	0	21.45	21.46	21.45
		64QAM	1	1	20.73	20.95	20.91
		256QAM	1	1	17.64	17.91	17.88
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	508200	518598	528996
					2541.00 MHz	2592.99 MHz	2644.98 MHz
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.24	20.28	20.30
			1	1	23.97	23.97	23.95
			1	123	23.85	23.73	23.59
			1	243	23.76	23.74	23.75
			1	244	20.10	20.17	20.20
			243	0	23.51	23.20	23.40
		QPSK	1	0	20.16	20.50	20.29
			1	1	23.85	24.09	23.82
			1	123	23.78	23.69	23.58
			1	243	23.97	23.71	23.70
			1	244	20.09	20.02	20.18
			243	0	22.93	22.87	22.67
		16QAM	1	1	22.72	22.87	23.02
			1	123	22.70	22.98	22.57
			1	243	22.71	22.84	22.88
		64QAM	1	1	21.03	21.38	21.23
		256QAM	1	1	19.17	19.37	19.26
	CP-OFDM	QPSK	1	1	22.43	22.72	22.48

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	507204	518598	529998
					2536.02 MHz	2592.99 MHz	2649.99 MHz
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.06	20.26	20.24
			1	1	23.83	24.16	23.77
			1	108	23.73	23.79	23.64
			1	215	23.84	23.72	23.78
			1	216	20.08	20.05	20.09
			216	0	23.36	23.39	23.22
		QPSK	1	0	20.19	20.62	20.18
			1	1	23.66	24.20	23.76
			1	108	23.63	23.81	23.64
			1	215	23.84	23.64	23.84
			1	216	20.43	20.10	20.36
			216	0	22.83	22.94	22.85
		16QAM	1	1	22.89	22.89	22.97
			1	108	23.01	22.97	22.79
			1	215	22.71	22.66	22.75
		64QAM	1	1	21.10	21.37	21.25
		256QAM	1	1	19.12	19.38	19.13
	CP-OFDM	QPSK	1	1	22.27	22.69	22.43
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	506202	518598	531000
					2531.02 MHz	2592.99 MHz	2655.00 MHz
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.17	20.21	20.22
			1	1	23.51	23.80	23.86
			1	94	23.92	23.81	23.73
			1	187	23.69	23.63	23.75
			1	188	20.43	20.19	20.26
			180	0	23.13	23.38	23.33
		QPSK	1	0	20.07	20.20	20.17
			1	1	23.68	23.79	23.82
			1	94	23.96	23.93	23.74
			1	187	24.11	23.64	23.69
			1	188	20.18	20.10	20.22
			180	0	22.89	22.68	22.64
		16QAM	1	1	22.73	22.83	22.81
			1	94	23.08	23.00	22.91
			1	187	23.13	22.71	22.74
		64QAM	1	1	21.15	21.26	21.18
		256QAM	1	1	19.11	19.30	19.10
	CP-OFDM	QPSK	1	1	22.21	22.56	22.26
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	505200	518598	513996
					2526.00 MHz	2592.99 MHz	2659.98 MHz
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.07	20.26	20.09
			1	1	23.75	24.04	23.60
			1	80	23.84	23.81	23.58
			1	160	24.02	23.58	23.68
			1	161	20.12	20.13	20.03
			162	0	23.31	23.48	23.17
		QPSK	1	0	20.26	20.39	20.20
			1	1	23.75	24.08	23.72
			1	80	23.84	23.82	23.55
			1	160	23.84	23.52	23.67
			1	161	20.16	20.07	20.16
			162	0	22.71	22.98	22.64
		16QAM	1	1	22.71	22.67	22.55
			1	80	22.86	22.77	22.59
			1	160	22.81	22.65	22.64
		64QAM	1	1	21.04	21.11	21.07
		256QAM	1	1	19.19	19.38	19.30
	CP-OFDM	QPSK	1	1	22.12	22.25	22.14

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	504204	518598	532998
					2521.01 MHz	2592.99 MHz	2665.00 MHz
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.25	20.35	20.18
			1	1	23.86	24.07	23.86
			1	66	23.90	23.78	23.61
			1	131	23.80	23.63	23.88
			1	132	20.12	20.06	20.20
		QPSK	128	0	23.38	23.29	23.26
			1	0	20.13	20.42	20.35
			1	1	23.86	24.07	23.95
			1	66	23.72	23.78	23.64
			1	131	23.89	23.76	23.75
			1	132	20.12	20.03	20.08
			128	0	22.88	22.86	22.66
		16QAM	1	1	22.77	22.91	22.94
			1	66	22.82	22.85	22.58
			1	131	22.65	22.72	22.80
		64QAM	1	1	21.09	21.44	21.24
		256QAM	1	1	19.07	19.36	19.19
	CP-OFDM	QPSK	1	1	22.40	22.68	22.45
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	503202	518598	534000
					2516.01 MHz	2592.99 MHz	2670.00 MHz
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.21	20.38	20.33
			1	1	23.93	24.10	23.84
			1	52	23.92	23.75	23.60
			1	104	23.86	23.76	23.77
			1	105	20.09	20.01	20.10
		QPSK	100	0	23.42	23.26	23.39
			1	0	20.13	20.48	20.34
			1	1	23.88	24.15	23.85
			1	52	23.68	23.71	23.60
			1	104	23.88	23.63	23.75
			1	105	20.10	20.12	20.07
			100	0	22.83	22.77	22.66
		16QAM	1	1	22.74	22.91	22.93
			1	52	22.82	22.96	22.51
			1	104	22.59	22.72	22.85
		64QAM	1	1	21.05	21.48	21.22
		256QAM	1	1	19.05	19.34	19.22
	CP-OFDM	QPSK	1	1	22.47	22.70	22.39
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	502200	518598	534996
					2511.00 MHz	2592.99 MHz	2675.00 MHz
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.23	20.24	20.25
			1	1	23.88	24.06	23.83
			1	39	23.85	23.71	23.53
			1	76	23.89	23.64	23.79
			1	77	20.01	20.02	20.16
		QPSK	75	0	23.49	23.22	23.39
			1	0	20.15	20.38	20.40
			1	1	23.75	24.18	23.91
			1	39	23.72	23.69	23.60
			1	76	23.83	23.66	23.78
			1	77	20.16	20.07	20.08
			75	0	22.86	22.87	22.75
		16QAM	1	1	22.74	22.92	22.90
			1	39	22.76	22.96	22.57
			1	76	22.70	22.75	22.84
		64QAM	1	1	21.00	21.42	21.22
		256QAM	1	1	19.03	19.34	19.19
	CP-OFDM	QPSK	1	1	22.48	22.65	22.34

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	501702	518598	534996
					2508.51 MHz	2592.99 MHz	2675.00 MHz
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.26	20.37	20.18
			1	1	23.91	24.01	23.91
			1	32	23.96	23.84	23.64
			1	63	23.88	23.72	23.89
			1	64	20.01	20.07	20.10
			64	0	23.45	23.18	23.33
		QPSK	1	0	20.10	20.40	20.26
			1	1	23.88	24.04	23.80
			1	32	23.78	23.73	23.58
			1	63	23.86	23.62	23.71
			1	64	20.05	20.06	20.14
			64	0	22.91	22.75	22.78
		16QAM	1	1	22.75	22.88	22.93
			1	32	22.83	22.94	22.54
			1	63	22.63	22.80	22.85
		64QAM	1	1	21.06	21.38	21.27
		256QAM	1	1	19.10	19.46	19.21
	CP-OFDM	QPSK	1	1	22.49	22.65	22.40
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	501204	518598	535998
					2506.02 MHz	2592.99 MHz	2679.99 MHz
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.19	20.28	20.22
			1	1	23.91	24.01	23.95
			1	26	23.92	23.71	23.64
			1	49	23.79	23.75	23.77
			1	50	20.09	20.04	20.08
			50	0	23.53	23.30	23.36
		QPSK	1	0	20.04	20.46	20.36
			1	1	23.82	24.09	23.83
			1	26	23.77	23.72	23.57
			1	49	23.92	23.75	23.70
			1	50	20.08	20.04	20.08
			50	0	22.84	22.78	22.79
		16QAM	1	1	22.77	22.86	22.92
			1	26	22.81	23.00	22.60
			1	49	22.68	22.79	22.85
		64QAM	1	1	21.08	21.48	21.28
		256QAM	1	1	19.10	19.43	19.23
	CP-OFDM	QPSK	1	1	22.49	22.61	22.47
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	500700	518598	536496
					2503.50 MHz	2592.99 MHz	2682.48 MHz
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.11	20.37	20.29
			1	1	23.90	23.99	23.85
			1	19	23.92	23.71	23.64
			1	36	23.89	23.65	23.74
			1	37	20.12	20.03	20.07
			36	0	23.50	23.26	23.34
		QPSK	1	0	20.09	20.36	20.32
			1	1	23.82	24.05	23.88
			1	19	23.66	23.78	23.59
			1	36	23.87	23.74	23.74
			1	37	20.04	20.11	20.14
			36	0	22.89	22.81	22.68
		16QAM	1	1	22.86	22.81	23.00
			1	19	22.73	22.93	22.55
			1	36	22.64	22.85	22.93
		64QAM	1	1	21.14	21.44	21.29
		256QAM	1	1	19.03	19.46	19.29
	CP-OFDM	QPSK	1	1	22.49	22.62	22.34

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	500202	518598	537000
					2501.01 MHz	2592.99 MHz	2685.00 MHz
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.18	20.35	20.24
			1	1	23.84	24.03	23.92
			1	12	23.84	23.79	23.60
			1	22	23.79	23.76	23.77
			1	23	20.10	20.04	20.10
		QPSK	24	0	23.40	23.24	23.40
			1	0	20.17	20.39	20.28
			1	1	23.77	24.17	23.94
			1	12	23.78	23.71	23.63
			1	22	23.84	23.65	23.71
			1	23	20.10	20.03	20.19
			24	0	22.95	22.75	22.72
		16QAM	1	1	22.82	22.85	22.92
			1	12	22.79	22.90	22.51
			1	22	22.69	22.74	22.83
		64QAM	1	1	21.05	21.37	21.24
		256QAM	1	1	19.05	19.43	19.27
	CP-OFDM	QPSK	1	1	22.53	22.59	22.41

NR Band n66 (ANT A)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	346000	349000	352000
					1730.00 MHz	1745.00 MHz	1760.00 MHz
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.66	22.61	23.11
			1	1	24.01	24.05	24.07
			1	107	24.23	24.24	24.21
			1	214	24.16	24.21	23.92
			1	215	23.16	23.18	22.51
		QPSK	216	0	23.25	23.27	23.09
			1	0	22.68	22.61	23.18
			1	1	23.99	24.05	24.09
			1	107	24.28	24.27	24.11
			1	214	24.17	24.07	23.90
			1	215	23.19	23.21	22.49
		16QAM	216	0	23.24	23.26	23.18
			1	0	21.63	22.21	22.09
			1	1	23.13	23.06	23.15
			1	107	23.25	23.25	23.18
			1	214	23.23	23.19	22.98
			1	215	22.11	22.28	21.49
		64QAM	216	0	22.06	22.12	22.06
			1	1	21.59	21.41	21.75
			1	1	19.21	19.17	19.53
			1	0	20.16	20.76	20.70
			1	1	21.73	21.98	22.63
	CP-OFDM	QPSK	1	107	22.55	22.66	22.51
			1	214	22.71	22.42	22.39
			1	215	21.14	20.92	20.73
			216	0	21.13	21.17	21.09
			1	0	20.57	20.93	21.14
		16QAM	1	1	21.75	21.74	22.11
			1	107	22.04	22.05	22.08
			1	214	22.16	22.11	21.97
			1	215	21.22	21.21	20.99
			216	0	21.06	21.13	20.98
		64QAM	1	1	20.21	20.41	20.77
			1	1	17.49	17.48	17.54
		256QAM	1	1	17.49	17.48	17.54
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	345500	349000	352500
					1727.50 MHz	1745.00 MHz	1762.50 MHz
35 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.61	22.54	23.09
			1	1	23.90	24.09	24.14
			1	93	24.16	24.18	24.18
			1	186	24.14	24.17	23.96
			1	187	23.15	23.21	22.63
		QPSK	180	0	23.22	23.34	23.21
			1	0	22.65	22.52	23.01
			1	1	23.75	24.16	24.20
			1	93	24.23	24.18	24.20
			1	186	24.20	24.19	24.00
			1	187	23.12	23.25	22.59
			180	0	23.19	23.23	23.20
		16QAM	1	1	22.82	23.11	23.22
			1	93	23.15	23.28	23.17
			1	186	23.18	23.22	22.88
		64QAM	1	1	21.09	21.49	21.55
		256QAM	1	1	19.11	19.26	19.34
	CP-OFDM	QPSK	1	1	22.34	22.73	22.77

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	345000	349000	353000
					1725.00 MHz	1745.00 MHz	1765.00 MHz
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.68	22.63	23.15
			1	1	23.93	24.18	24.27
			1	79	24.09	24.26	24.21
			1	158	24.18	24.28	24.12
			1	159	23.21	23.15	22.71
			160	0	23.13	23.29	23.29
		QPSK	1	0	22.64	22.58	23.16
			1	1	23.80	24.15	24.27
			1	79	24.08	24.25	24.22
			1	158	24.23	24.29	24.06
			1	159	23.18	23.11	22.75
			160	0	23.15	23.16	23.28
		16QAM	1	1	22.85	23.19	23.21
			1	79	23.12	23.16	23.16
			1	158	23.29	23.16	23.04
		64QAM	1	1	20.91	21.56	21.58
		256QAM	1	1	19.17	19.39	19.44
	CP-OFDM	QPSK	1	1	22.61	22.76	22.40
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	344500	349000	353500
					1722.50 MHz	1745.00 MHz	1767.50 MHz
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.68	22.55	23.03
			1	1	24.19	24.20	24.27
			1	66	24.11	24.27	24.11
			1	131	24.24	24.28	23.94
			1	132	23.19	23.12	22.75
			128	0	23.30	23.26	23.23
		QPSK	1	0	22.61	22.49	23.07
			1	1	24.19	24.21	24.15
			1	66	24.15	24.15	24.15
			1	131	24.23	24.25	23.99
			1	132	23.21	23.19	22.71
			128	0	23.17	23.28	23.22
		16QAM	1	1	23.27	23.26	23.28
			1	66	23.28	23.00	23.15
			1	131	23.22	23.00	23.00
		64QAM	1	1	21.67	21.63	21.70
		256QAM	1	1	19.41	19.43	19.47
	CP-OFDM	QPSK	1	1	22.71	22.72	22.77
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	344000	349000	354000
					1720.00 MHz	1745.00 MHz	1770.00 MHz
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.65	22.58	23.16
			1	1	23.90	24.12	24.12
			1	52	23.80	24.18	24.07
			1	104	24.22	24.15	23.94
			1	105	23.19	23.18	22.85
			100	0	23.19	23.33	23.17
		QPSK	1	0	22.63	22.51	23.12
			1	1	23.76	24.13	24.13
			1	52	23.71	24.28	24.13
			1	104	24.17	24.15	23.97
			1	105	23.15	23.21	22.81
			100	0	23.15	23.12	23.15
		16QAM	1	1	22.87	23.18	23.16
			1	52	22.98	23.25	23.12
			1	104	23.12	23.12	22.97
		64QAM	1	1	21.17	21.51	21.52
		256QAM	1	1	19.24	19.27	19.25
	CP-OFDM	QPSK	1	1	22.71	22.72	22.77

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	343500	349000	354500
					1717.50 MHz	1745.00 MHz	1772.50 MHz
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.66	22.61	23.12
			1	1	24.21	24.21	24.16
			1	39	24.22	24.22	23.99
			1	77	24.28	24.27	24.06
			1	78	23.21	23.19	22.81
			75	0	23.34	23.34	23.11
		QPSK	1	0	22.71	22.59	23.21
			1	1	24.24	24.22	24.23
			1	39	24.19	24.26	23.95
			1	77	24.21	24.13	24.02
			1	78	23.17	23.25	22.92
			75	0	23.26	23.15	23.17
		16QAM	1	1	23.20	23.22	23.15
			1	39	23.26	23.23	23.09
			1	77	23.20	23.27	23.03
		64QAM	1	1	21.62	21.58	21.44
		256QAM	1	1	19.38	19.35	19.36
	CP-OFDM	QPSK	1	1	22.56	22.56	22.78
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	343000	349000	355000
					1715.00 MHz	1745.00 MHz	1775.00 MHz
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.61	22.59	23.12
			1	1	24.00	24.23	24.09
			1	25	24.02	24.26	23.92
			1	50	23.99	24.25	23.76
			1	51	23.15	23.21	22.81
			50	0	23.05	23.31	23.19
		QPSK	1	0	22.61	22.48	23.05
			1	1	23.94	24.17	24.02
			1	25	23.99	23.99	23.75
			1	50	23.96	24.28	23.71
			1	51	23.15	23.21	22.79
			50	0	23.09	23.09	23.19
		16QAM	1	1	22.92	23.18	23.10
			1	25	22.98	23.23	23.01
			1	50	22.92	23.23	22.95
		64QAM	1	1	21.29	21.52	21.21
		256QAM	1	1	19.04	19.25	19.26
	CP-OFDM	QPSK	1	1	22.56	22.56	22.78
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	342500	349000	355500
					1712.50 MHz	1745.00 MHz	1777.50 MHz
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.61	22.58	23.08
			1	1	23.90	24.27	23.84
			1	13	23.87	24.25	23.77
			1	23	23.89	24.22	23.72
			1	24	23.16	23.19	22.77
			25	0	22.89	23.28	23.02
		QPSK	1	0	22.59	22.51	23.13
			1	1	23.82	24.29	23.74
			1	13	23.82	24.23	23.76
			1	23	23.90	24.26	23.59
			1	24	23.12	23.19	22.75
			25	0	22.87	23.22	23.03
		16QAM	1	1	22.83	23.25	22.83
			1	13	22.87	23.26	22.86
			1	23	22.85	23.23	22.78
		64QAM	1	1	21.18	21.52	21.07
		256QAM	1	1	19.05	19.45	19.22
	CP-OFDM	QPSK	1	1	22.40	22.75	22.45

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	346000	349000	352000	
					1730.00 MHz	1745.00 MHz	1760.00 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.89	21.72	21.63	
			1	1	24.10	23.89	23.79	
			1	107	23.93	23.77	23.73	
			1	214	23.91	23.89	23.78	
			1	215	21.63	21.69	21.57	
			216	0	23.00	23.00	22.91	
		QPSK	1	0	21.91	21.75	21.65	
			1	1	24.06	23.96	23.81	
			1	107	23.81	23.81	23.70	
			1	214	23.82	23.86	23.76	
			1	215	21.65	21.68	21.54	
			216	0	23.01	22.98	22.98	
		16QAM	1	0	21.11	20.67	20.51	
			1	1	23.11	22.99	22.90	
			1	107	22.98	22.97	22.91	
			1	214	22.82	22.90	22.88	
			1	215	20.75	20.55	20.63	
			216	0	20.78	20.73	20.75	
		64QAM	1	1	20.73	20.44	20.49	
		256QAM	1	1	18.59	18.33	18.41	
	CP-OFDM	QPSK	1	0	20.51	20.55	20.64	
			1	1	22.21	22.25	22.18	
			1	107	21.99	21.98	22.01	
			1	214	22.69	22.72	22.71	
			1	215	21.05	21.08	21.11	
			216	0	20.79	20.71	20.62	
		16QAM	1	0	20.83	20.78	20.81	
			1	1	21.72	21.71	21.76	
			1	107	22.09	22.11	22.04	
			1	214	22.15	22.02	22.11	
			1	215	20.98	20.75	20.84	
			216	0	20.91	20.95	20.88	
64QAM	1	1	19.96	19.92	19.95			
256QAM	1	1	17.51	17.36	17.61			
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	345500 1727.50 MHz	349000 1745.00 MHz	352500 1762.50 MHz	
35 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.85	21.59	21.61	
			1	1	24.08	23.70	23.72	
			1	93	23.73	23.68	23.61	
			1	186	23.85	23.77	23.77	
			1	187	21.59	21.66	21.63	
			180	0	22.92	22.85	22.85	
		QPSK	1	0	21.79	21.59	21.58	
			1	1	23.92	23.78	23.79	
			1	93	23.70	23.69	23.68	
			1	186	23.79	23.76	23.71	
			1	187	21.81	21.63	21.64	
			180	0	22.88	22.78	22.84	
		16QAM	1	1	22.91	22.89	22.75	
			1	93	22.96	22.79	22.71	
			1	186	22.66	22.80	22.77	
		64QAM	1	1	21.33	21.38	21.14	
		256QAM	1	1	19.20	19.10	18.88	
		CP-OFDM	QPSK	1	1	22.56	22.37	22.45

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	345000	349000	353000
					1725.00 MHz	1745.00 MHz	1765.00 MHz
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.88	21.63	21.66
			1	1	24.13	24.08	23.87
			1	79	24.10	23.93	23.89
			1	158	23.91	23.89	23.84
			1	159	21.73	21.59	21.61
			160	0	23.03	22.90	22.86
		QPSK	1	0	21.75	21.61	21.55
			1	1	24.12	24.06	23.92
			1	79	24.06	23.91	23.93
			1	158	23.88	23.89	23.89
			1	159	21.82	21.66	21.61
			160	0	23.07	22.96	22.90
		16QAM	1	1	23.25	23.10	22.81
			1	79	23.15	22.95	22.99
			1	158	22.90	23.03	22.97
		64QAM	1	1	21.59	21.33	21.25
		256QAM	1	1	19.44	19.27	19.17
	CP-OFDM	QPSK	1	1	22.70	22.62	22.42
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	344500	349000	353500
					1722.50 MHz	1745.00 MHz	1767.50 MHz
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.88	21.63	21.66
			1	1	24.13	24.07	24.00
			1	66	24.05	23.90	23.93
			1	131	23.82	23.95	23.81
			1	132	21.93	21.59	21.61
			128	0	22.98	22.92	22.81
		QPSK	1	0	21.75	21.61	21.55
			1	1	24.15	24.03	23.99
			1	66	24.09	23.88	23.86
			1	131	23.85	23.90	23.79
			1	132	21.82	21.66	21.61
			128	0	23.03	22.90	22.87
		16QAM	1	1	23.27	23.14	23.00
			1	66	23.18	23.00	22.93
			1	131	22.98	23.01	22.88
		64QAM	1	1	21.55	21.38	21.31
		256QAM	1	1	19.38	19.30	19.19
	CP-OFDM	QPSK	1	1	22.71	22.67	22.56
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	344000	349000	354000
					1720.00 MHz	1745.00 MHz	1770.00 MHz
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.81	21.61	21.58
			1	1	24.03	23.94	23.81
			1	52	24.08	23.88	23.86
			1	104	23.93	23.91	23.74
			1	105	21.88	21.55	21.59
			100	0	23.17	23.02	22.92
		QPSK	1	0	21.86	21.63	21.58
			1	1	24.05	23.97	23.82
			1	52	24.05	23.90	23.76
			1	104	23.95	23.96	23.79
			1	105	21.88	21.61	21.57
			100	0	23.15	23.02	22.96
		16QAM	1	1	23.17	22.99	22.87
			1	52	23.06	22.93	22.85
			1	104	22.97	23.01	22.84
		64QAM	1	1	21.44	21.21	21.18
		256QAM	1	1	19.28	19.08	18.95
	CP-OFDM	QPSK	1	1	22.57	22.46	22.39

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	343500	349000	354500
					1717.50 MHz	1745.00 MHz	1772.50 MHz
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.75	21.58	21.61
			1	1	24.19	24.02	23.81
			1	39	24.02	23.84	23.80
			1	77	24.01	23.92	23.80
			1	78	21.85	21.59	21.55
			75	0	23.09	22.92	22.87
		QPSK	1	0	21.89	21.66	21.51
			1	1	24.17	24.05	23.79
			1	39	24.05	23.89	23.81
			1	77	24.05	24.03	23.76
			1	78	21.86	21.63	21.53
			75	0	23.12	22.89	22.83
		16QAM	1	1	23.29	23.10	22.89
			1	39	23.17	22.96	22.84
			1	77	23.04	22.93	22.85
		64QAM	1	1	21.60	21.35	21.27
		256QAM	1	1	19.41	19.16	19.14
	CP-OFDM	QPSK	1	1	22.76	22.56	22.39
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	343000	349000	355000
					1715.00 MHz	1745.00 MHz	1775.00 MHz
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.81	21.60	21.59
			1	1	24.26	24.05	23.74
			1	25	24.15	23.98	23.81
			1	50	24.17	24.05	23.68
			1	51	21.88	21.63	21.53
			50	0	23.26	23.05	22.86
		QPSK	1	0	21.91	21.65	21.48
			1	1	24.29	24.07	23.77
			1	25	24.16	24.01	23.80
			1	50	24.16	24.04	23.72
			1	51	21.85	21.59	21.51
			50	0	23.25	23.03	22.84
		16QAM	1	1	23.27	23.14	22.80
			1	25	23.24	23.06	22.79
			1	50	23.21	23.07	22.73
		64QAM	1	1	21.70	21.45	21.12
		256QAM	1	1	19.43	19.25	19.01
	CP-OFDM	QPSK	1	1	22.77	22.58	22.36
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	342500	349000	355500
					1712.50 MHz	1745.00 MHz	1777.50 MHz
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.88	21.59	21.61
			1	1	24.05	23.79	23.66
			1	13	24.08	23.88	23.77
			1	23	23.97	23.80	23.63
			1	24	21.87	21.61	21.53
			25	0	23.13	22.92	22.80
		QPSK	1	0	21.89	21.63	21.47
			1	1	24.01	23.82	23.68
			1	13	24.11	23.93	23.81
			1	23	23.99	23.86	23.59
			1	24	21.82	21.60	21.45
			25	0	23.10	22.90	22.77
		16QAM	1	1	23.25	22.98	22.83
			1	13	23.21	22.96	22.87
			1	23	23.20	22.96	22.77
		64QAM	1	1	21.47	21.28	21.09
		256QAM	1	1	19.28	19.15	19.00
	CP-OFDM	QPSK	1	1	22.75	22.50	22.33

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

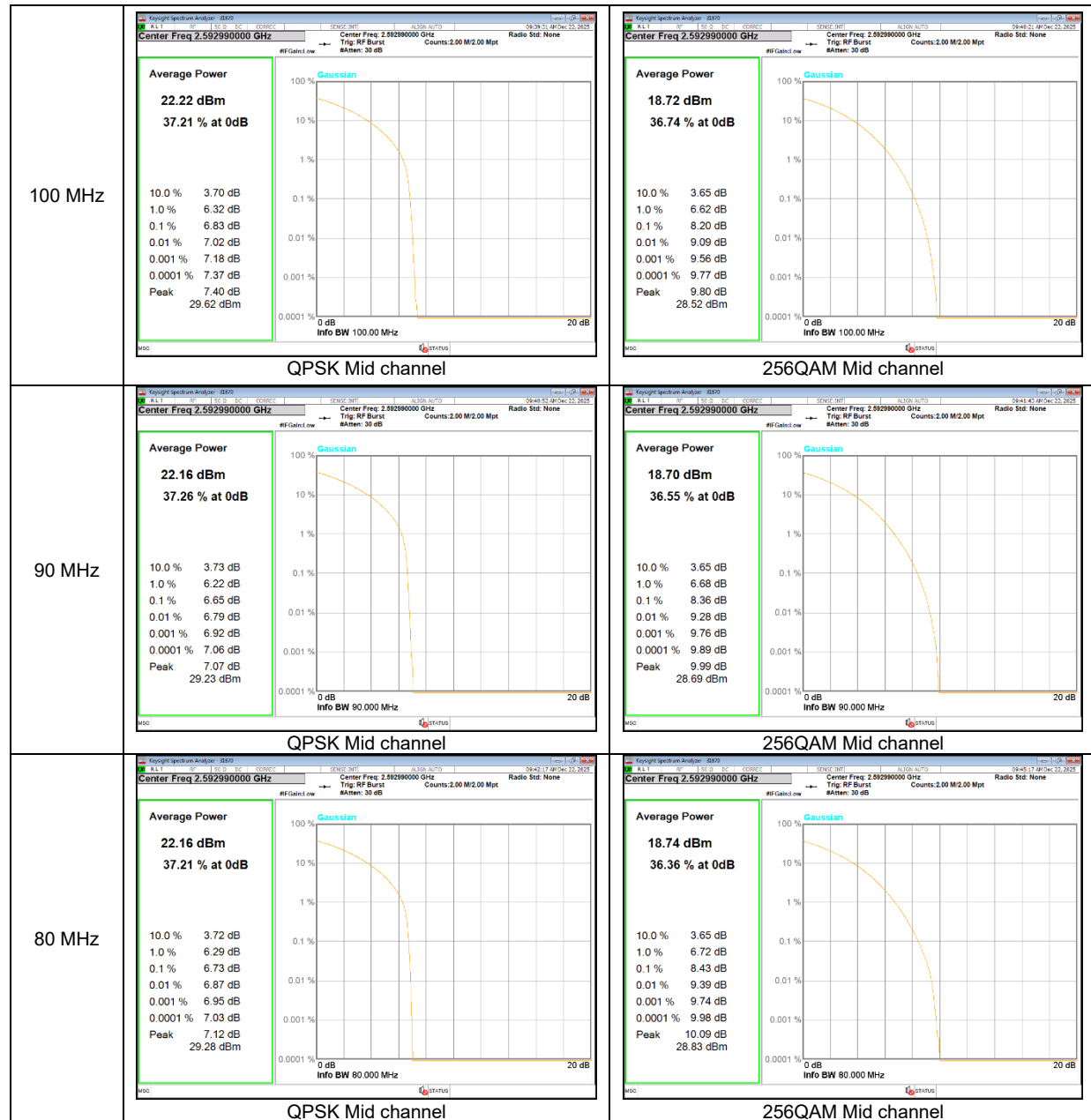
All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

RESULTS

See the following pages.

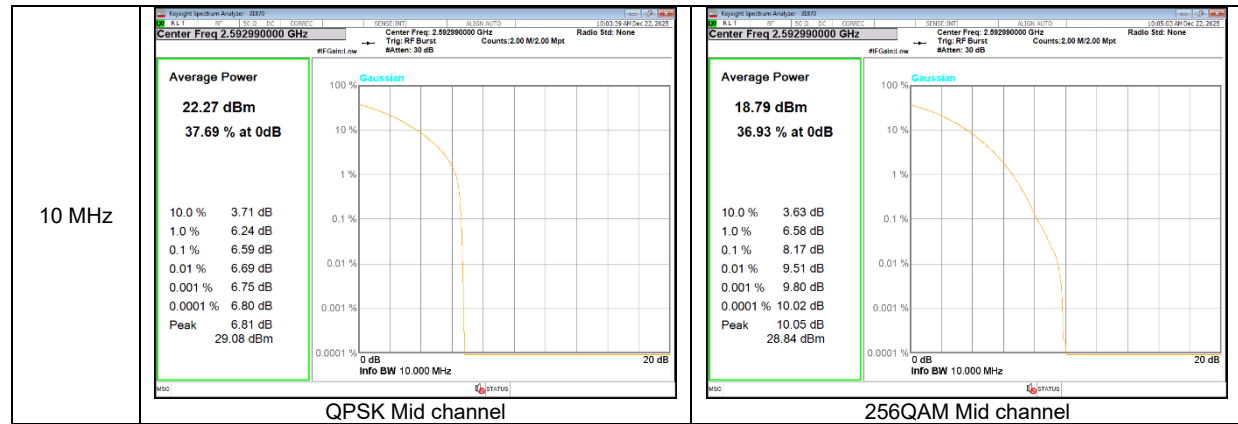
8.2.1. CONDUCTED PEAK TO AVERAGE RESULT

NR Band n41 CP-OFDM (ANT B)

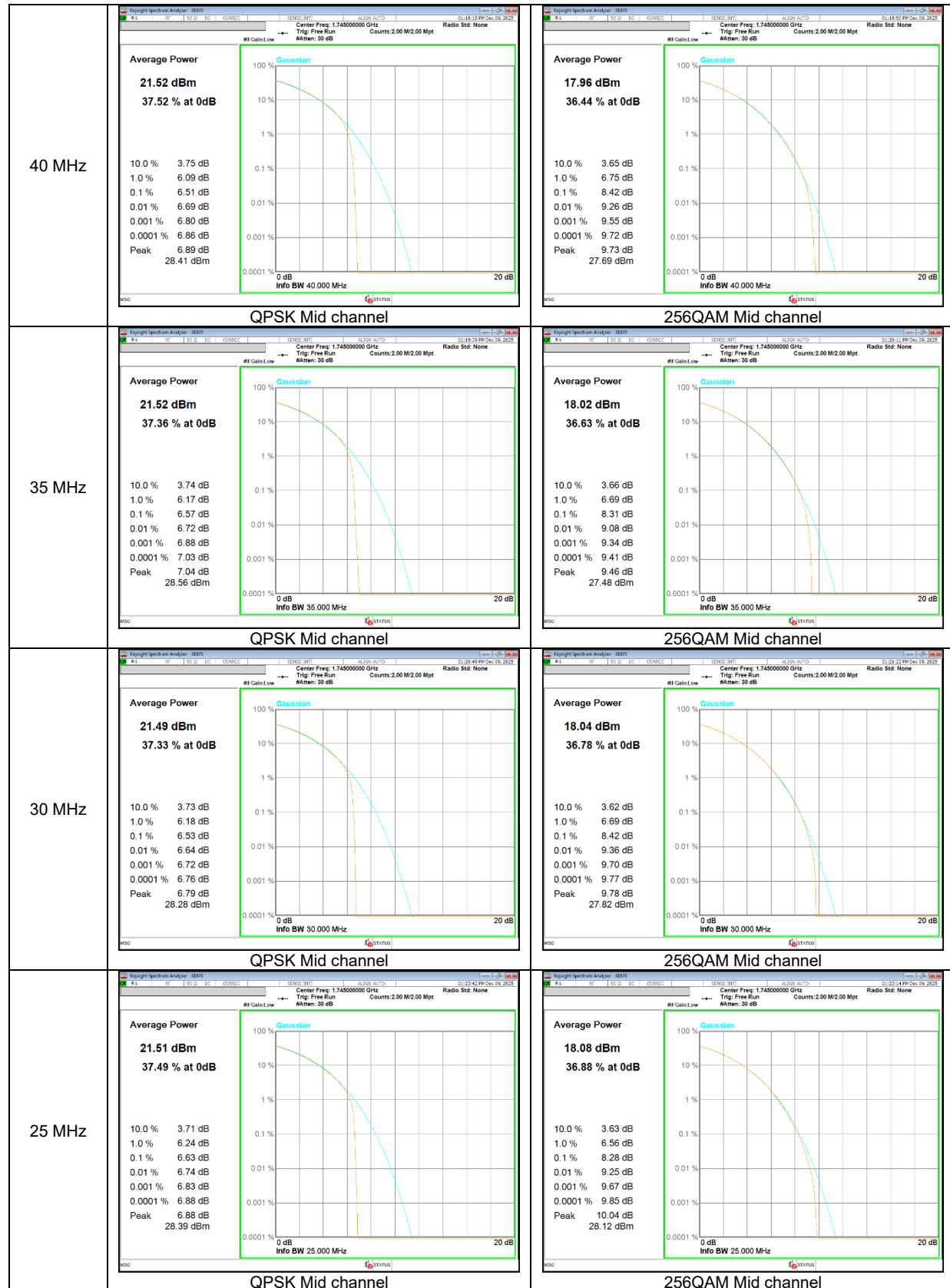


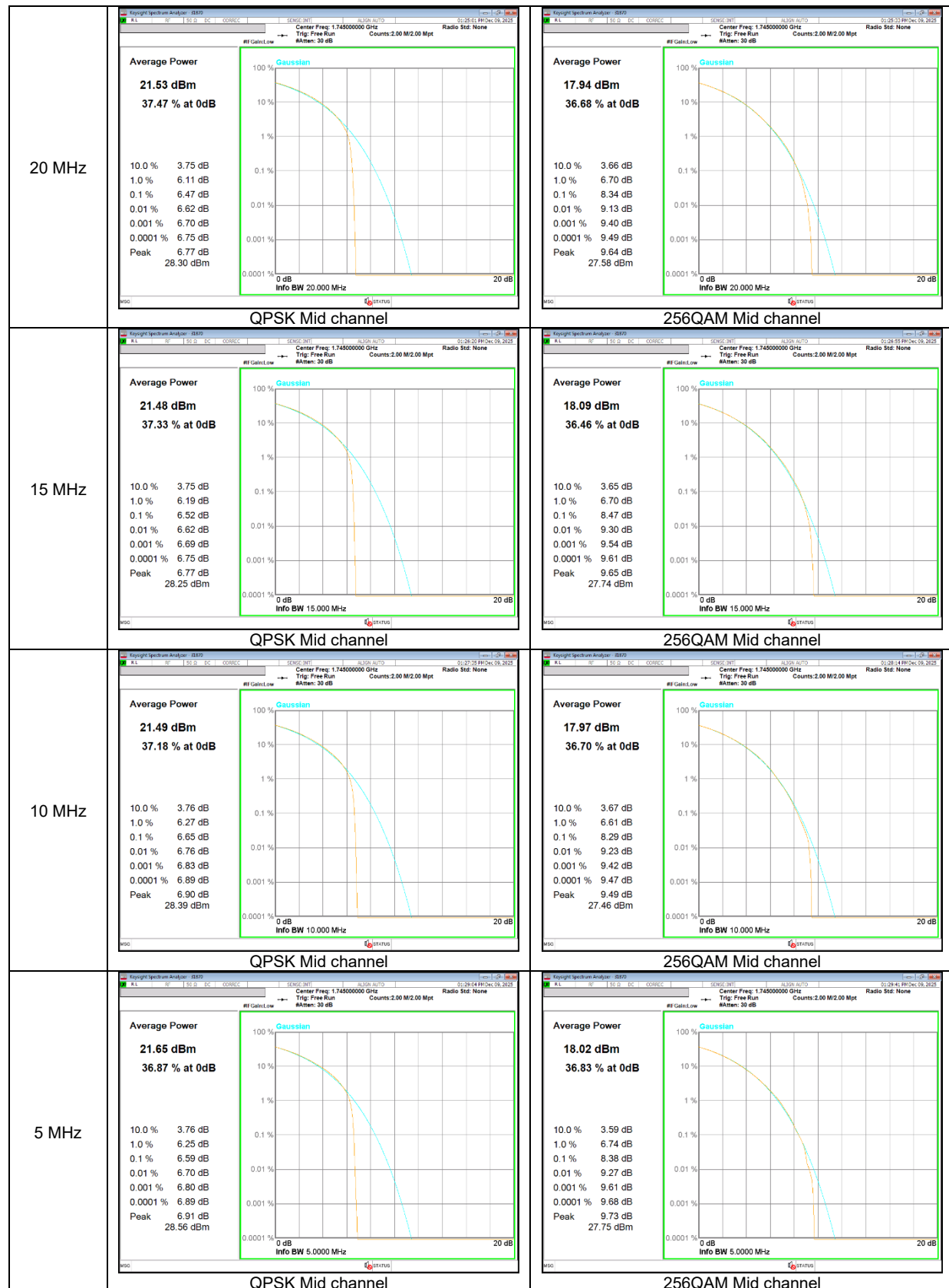






NR Band n66 CP-OFDM (ANT A)





8.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

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

(KDB 971168 D01 Power Meas License Digital Systems v03r01)

RESULTS

See the following pages.

- LTE Band 41C (UL CA) (ANT F)

Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B41	20+20M	QPSK	2593.00	37.688	40.970
		16QAM		37.587	39.560
	15+20M	QPSK		32.716	34.230
		16QAM		32.697	34.470
	15+15M	QPSK		28.384	29.990
		16QAM		28.399	29.720
	5+20M	QPSK		22.900	24.070
		16QAM		22.890	23.820

- NR Band n41 (PC2) CP-OFDM (ANT B)

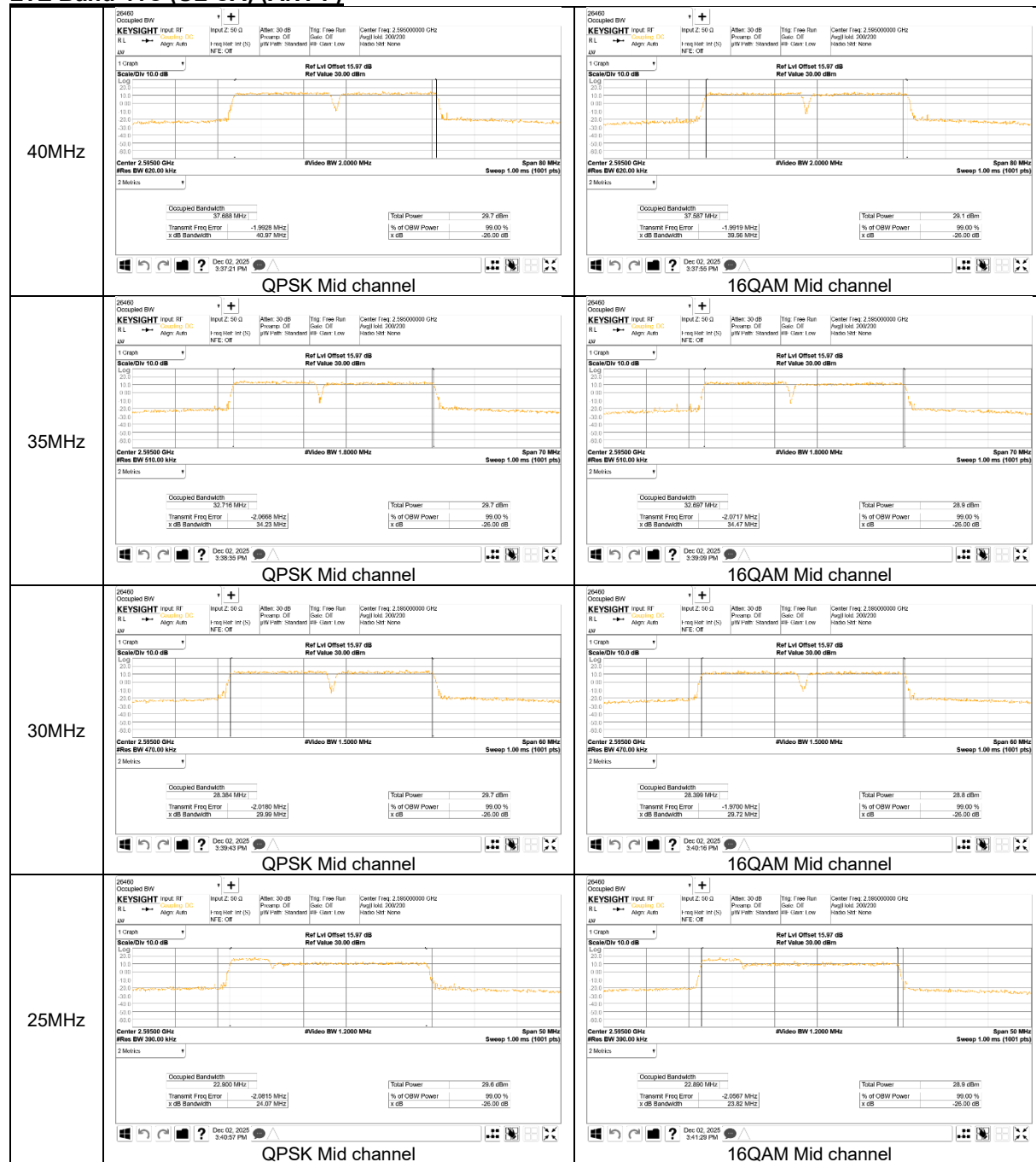
Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n41	100M	QPSK	2592.99	97.245	101.600
		16QAM		97.142	101.700
	90M	QPSK		87.478	91.360
		16QAM		87.376	91.490
	80M	QPSK		77.394	80.450
		16QAM		77.201	80.740
	70M	QPSK		67.402	70.340
		16QAM		67.385	70.370
	60M	QPSK		57.822	60.310
		16QAM		57.671	60.540
	50M	QPSK		47.486	49.750
		16QAM		47.426	50.210
	40M	QPSK		37.901	39.520
		16QAM		37.829	39.490
	30M	QPSK		27.843	29.520
		16QAM		27.933	29.380
	25M	QPSK		23.266	24.600
		16QAM		23.185	24.580
	20M	QPSK		18.276	19.590
		16QAM		18.259	19.410
	15M	QPSK		13.584	14.570
		16QAM		13.611	14.640
	10M	QPSK		8.601	9.793
		16QAM		8.626	9.744

- NR Band n66 CP-OFDM (ANT A)

Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n66	40M	QPSK	1745.00	38.584	40.290
		16QAM		38.561	40.330
	35M	QPSK		33.605	35.210
		16QAM		33.601	35.090
	30M	QPSK		28.607	30.180
		16QAM		28.559	30.010
	25M	QPSK		23.860	25.150
		16QAM		23.800	25.180
	20M	QPSK		18.979	20.140
		16QAM		18.997	20.110
	15M	QPSK		14.120	15.150
		16QAM		14.128	15.140
	10M	QPSK		9.337	10.350
		16QAM		9.310	10.210
	5M	QPSK		4.482	5.227
		16QAM		4.485	5.232

8.3.1. OCCUPIED BANDWIDTH RESULT

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



NR Band n41 (PC2) CP-OFDM (ANT B)







NR Band n66 CP-OFDM (ANT A)





8.4. BAND EDGE EMISSIONS

RULE PART(S)

FCC: §27.53

LIMITS

§27.53:

(h) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

(m) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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 band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

- a) Set the RBW = 1 - 1.5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW) within 100 kHz from the edge of the authorized frequency block/band.
Set the RBW = 100 kHz (Below 1GHz Bands: 100 kHz from the edge of the authorized frequency block/band)
Set the RBW = 1 - 1.5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW) within 1 MHz from the edge of the authorized frequency block/band.
Set the RBW = 1 MHz (Above 1GHz Bands: 1 MHz from the edge of the authorized frequency block/band)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = Auto;
- e) Detector = RMS;
- f) Ensure that the number of measurement points $\geq 2 \times$ span/RBW;
- g) Trace Mode = Average (100);

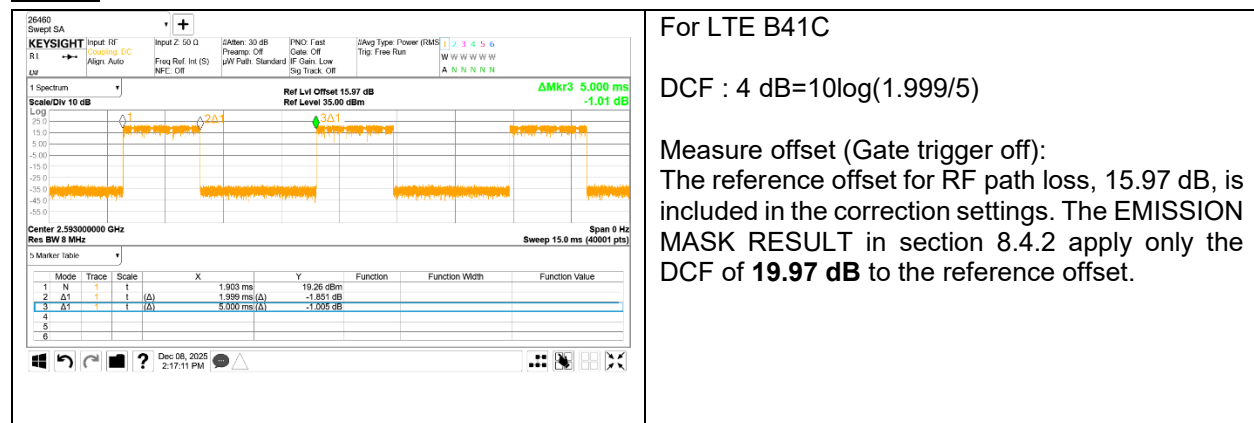
NOTE1

Note that the spurious emissions outside of the channel include narrowband signals. These signals are all below the -13dBm / -25dBm limits. Although the measurement bandwidth is less than the reference bandwidth of 1MHz no addtional correction is applied as ANSI C63.26 section 4.2.3 only requires the correction to be applied when the OBW of the emission being measured is wider than the measurement bandwidth (Where the OBW of the signal under measurement is less than the RBW of the measuring instrument, no bandwidth correction or integration will be required.) Plots for low and high channels show the level of the emission measured with the reduced bandwidth and the level of the same emission measured using the integration method over the 1MHz reference bandwidth are very close, indicating the emissions are narrowband.

NOTE2

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.

NOTE3



NOTE4

Emission Mask: All 1RB Positions (Edge RB, Outer RB, Inner RB) 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.

8.4.1. BAND EDGE RESULT

NR Band n66 (ANT A)

