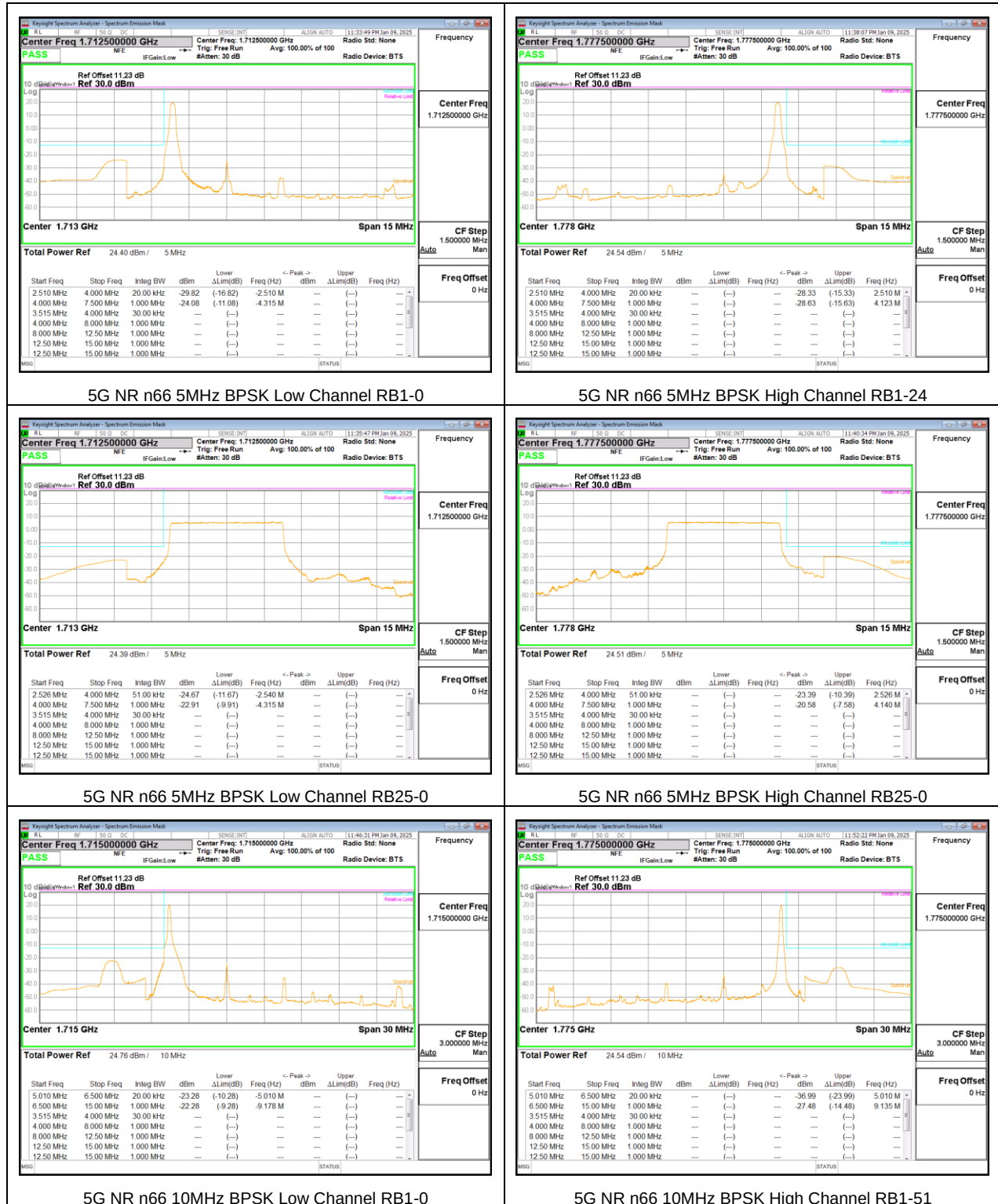
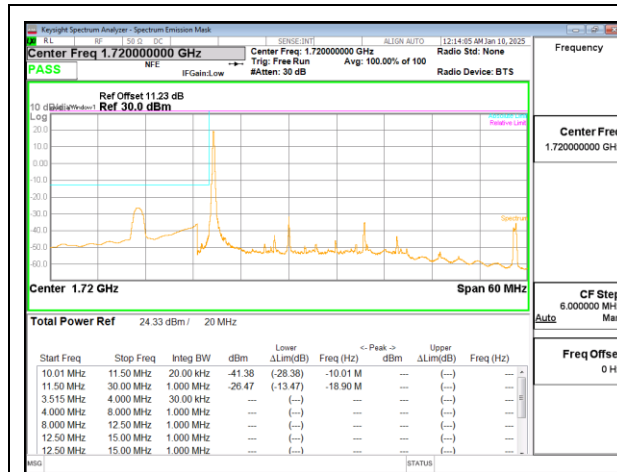


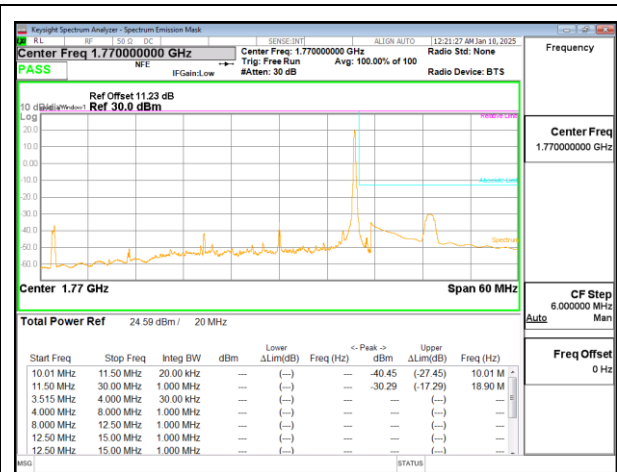
9.2.3. 5G NR n66



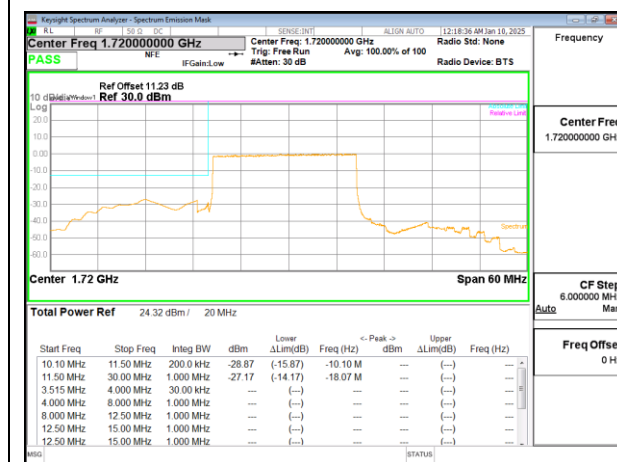




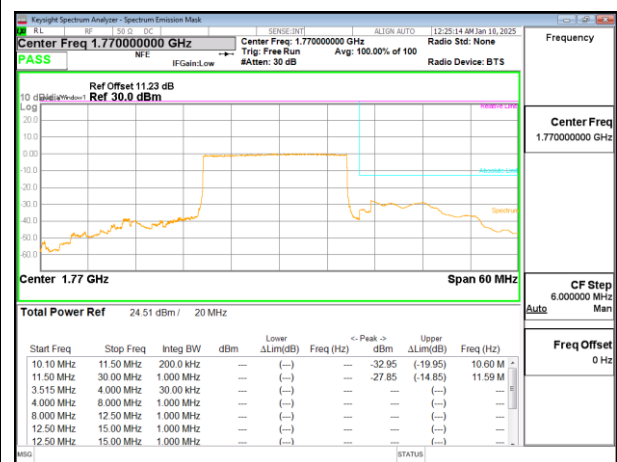
5G NR n66 20MHz BPSK Low Channel RB1-0



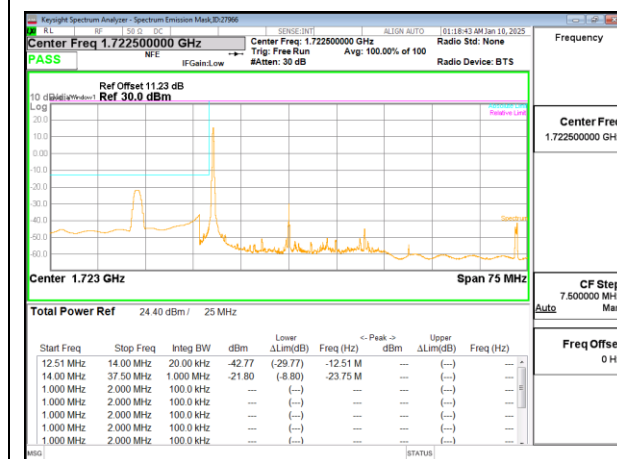
5G NR n66 20MHz BPSK High Channel RB1-105



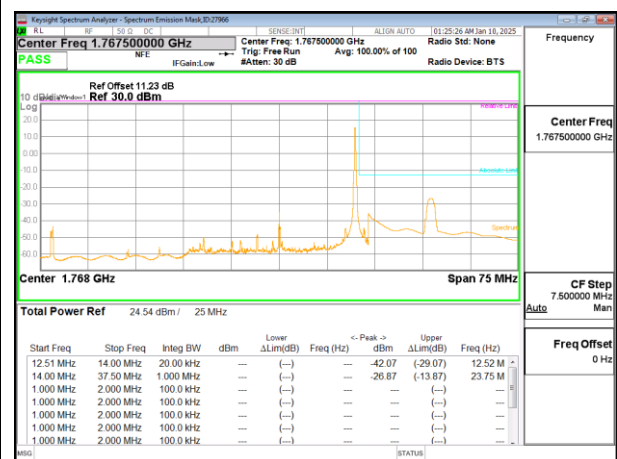
5G NR n66 20MHz BPSK Low Channel RB100-0



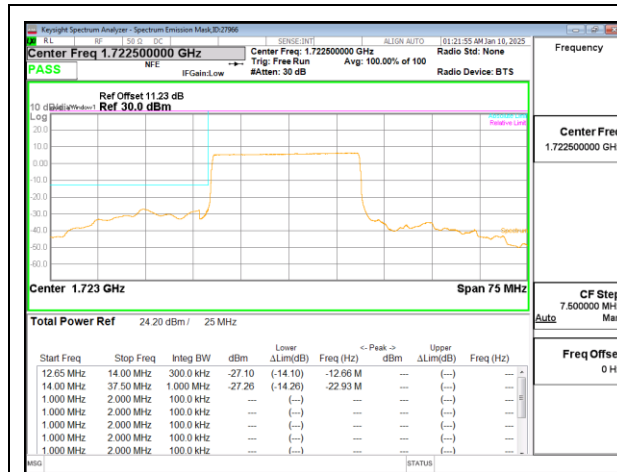
5G NR n66 20MHz BPSK High Channel RB100-0



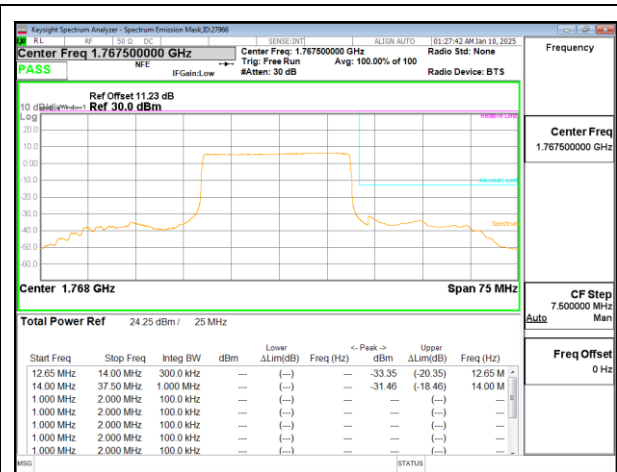
5G NR n66 25MHz BPSK Low Channel RB1-0



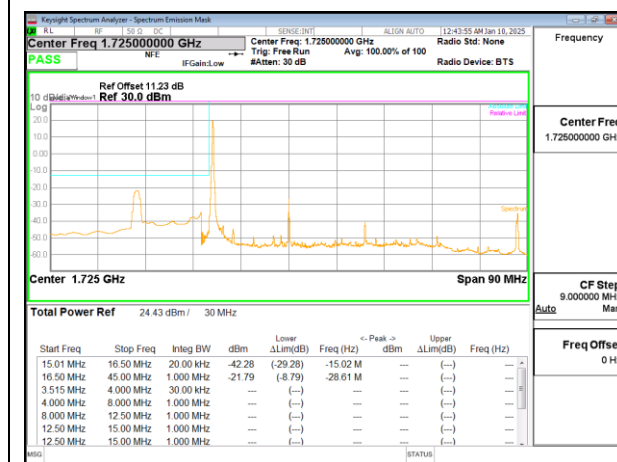
5G NR n66 25MHz BPSK High Channel RB1-132



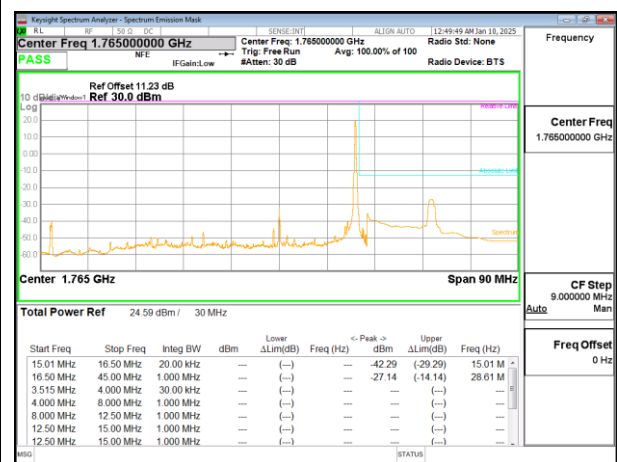
5G NR n66 25MHz BPSK Low Channel RB128-0



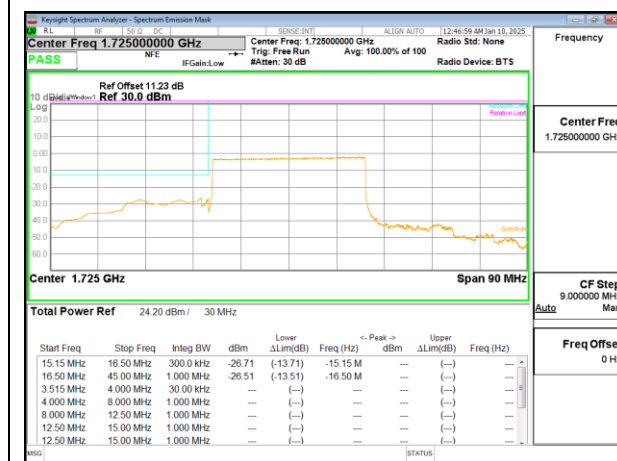
5G NR n66 25MHz BPSK High Channel RB128-0



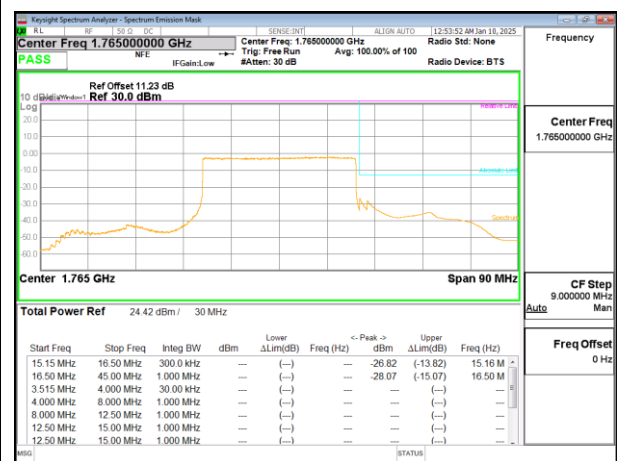
5G NR n66 30MHz BPSK Low Channel RB1-0



5G NR n66 30MHz BPSK High Channel RB1-159



5G NR n66 30MHz BPSK Low Channel RB160-0



5G NR n66 30MHz BPSK High Channel RB160-0



9.3. OUT OF BAND EMISSIONS

LIMITS

FCC: §27.53 (h)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

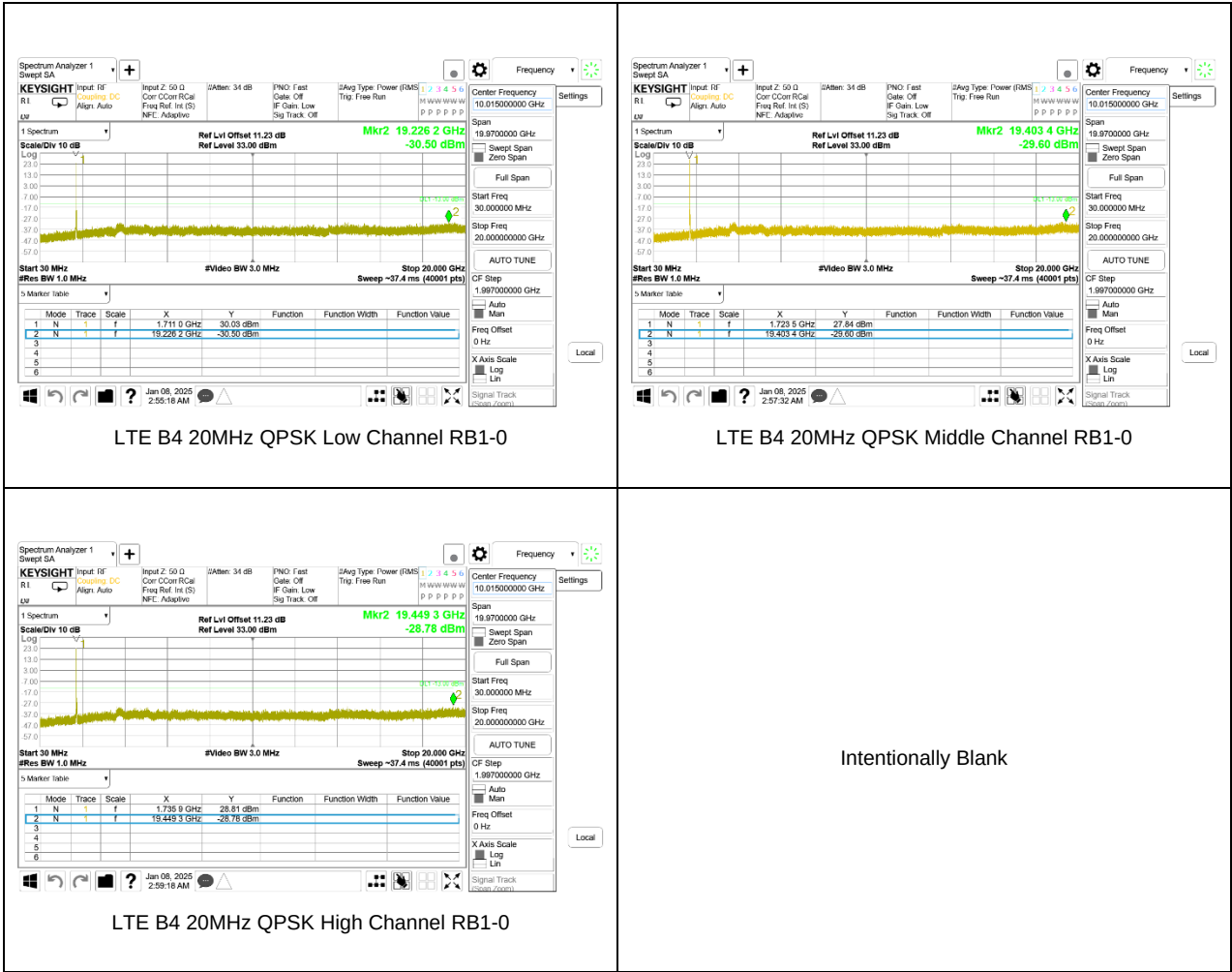
For each out of band emissions measurement:

- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

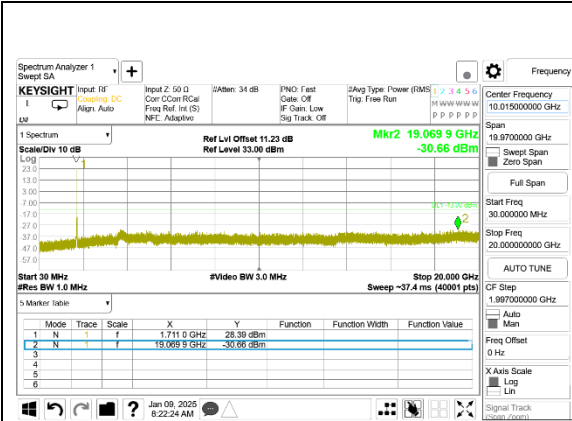
RESULTS

All bandwidth combinations of BPSK, QPSK and 16QAM modes are tested, only highest bandwidth results are reported as worst case.

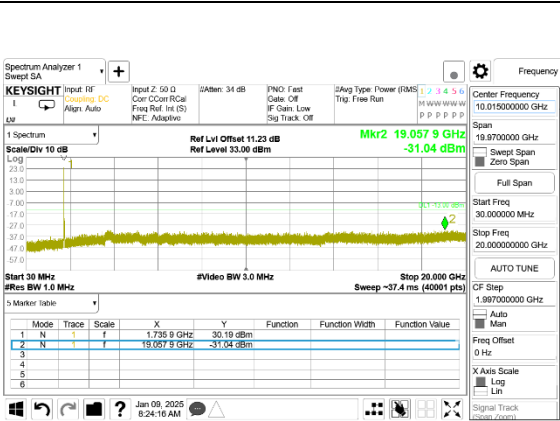
9.3.1. LTE BAND 4



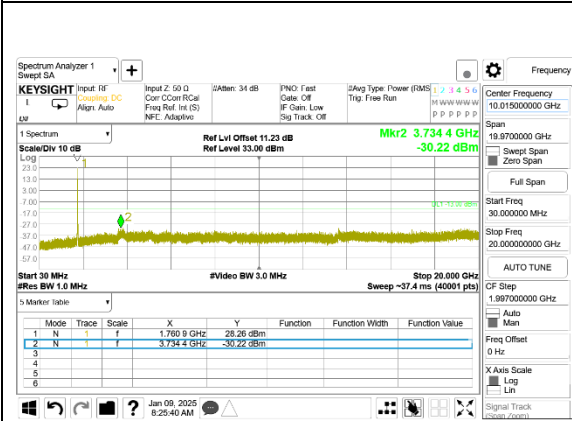
9.3.2. LTE BAND 66



LTE B66 20MHz QPSK Low Channel RB1-0



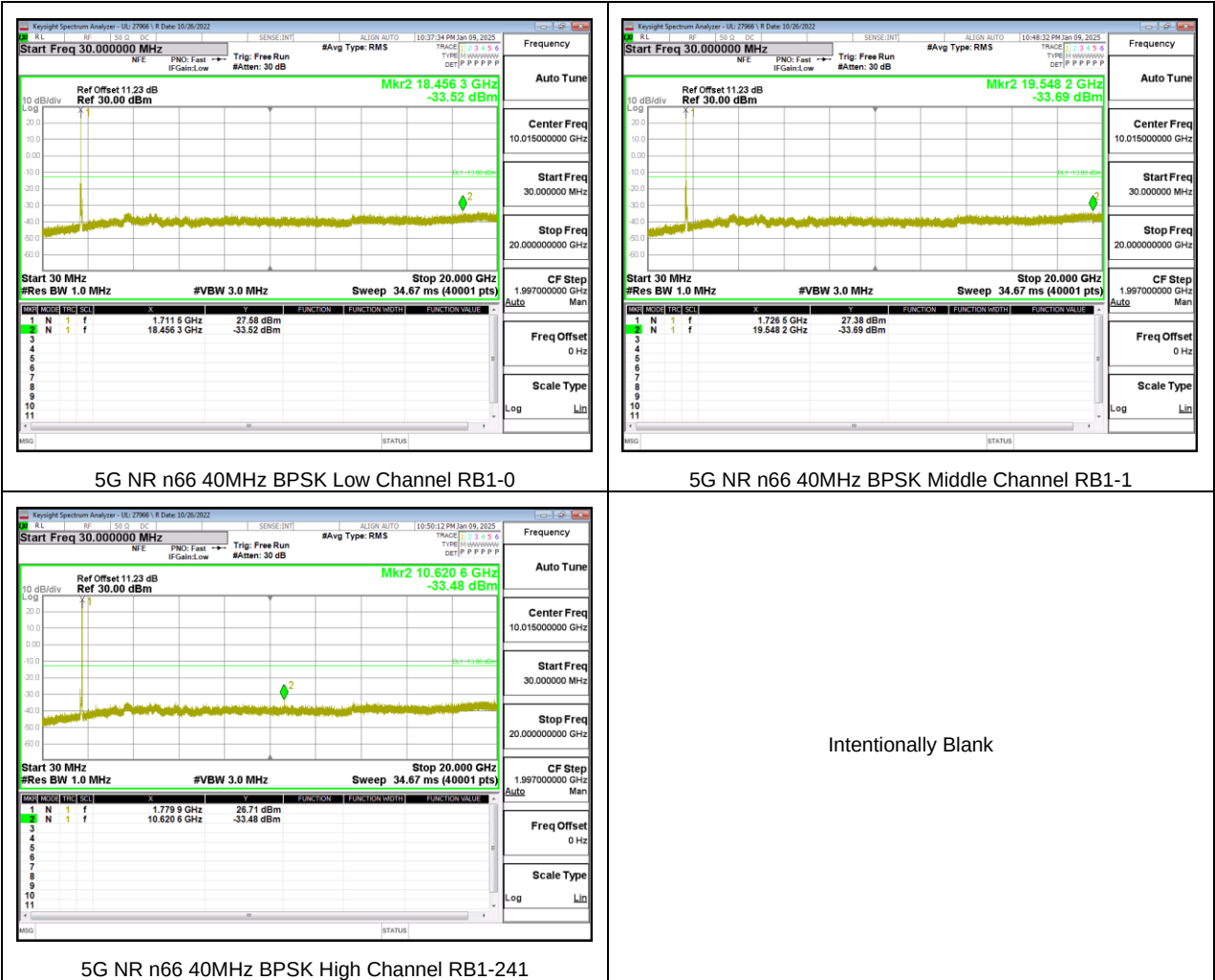
LTE B66 20MHz QPSK Middle Channel RB1-0



LTE B66 20MHz QPSK High Channel RB1-0

Intentionally Blank

9.3.3. 5G NR n66



9.4. FREQUENCY STABILITY

LIMITS

FCC: §27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = -30°C to +50°C

- Voltage = (85% - 115%)

Low voltage, 3.65VDC, Normal, 3.86VDC and High voltage, 4.4VDC.

End Voltage, 3.6VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

RESULTS

See the following pages.

9.4.1. LTE BAND 4 (QPSK 20MHz BANDWIDTH)

Test Engineer ID:	27979	Test Date:	2025-01-28
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Band	4	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1710	1755		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)			
Temperature	Voltage					
Normal (20°C)	Normal	1711.0499	1753.9440			
Extreme (50°C)		1711.0499	1753.9440	1.8	0.001	Yes
Extreme (40°C)		1711.0499	1753.9440	-2.9	-0.002	Yes
Extreme (30°C)		1711.0499	1753.9440	-0.2	0.000	Yes
Extreme (10°C)		1711.0499	1753.9440	-6.3	-0.004	Yes
Extreme (0°C)		1711.0499	1753.9440	0.5	0.000	Yes
Extreme (-10°C)		1711.0499	1753.9440	-3.4	-0.002	Yes
Extreme (-20°C)		1711.0499	1753.9440	1.3	0.001	Yes
Extreme (-30°C)		1711.0499	1753.9440	1.2	0.001	Yes
20°C	15%	1711.0499	1753.9440	1.4	0.001	Yes
	-15%	1711.0499	1753.9440	0.4	0.000	Yes
	End Point Voltage	1711.0499	1753.9440	1.0	0.001	Yes

9.4.2. LTE BAND 66 (QPSK 20MHz BANDWIDTH)

Test Engineer ID:	27979	Test Date:	2025-01-28
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Band	66	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1710	1780			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	1711.0557	1778.9479			
Extreme (50°C)		1711.0557	1778.9479	4.4	0.003	Yes
Extreme (40°C)		1711.0557	1778.9479	-1.1	-0.001	Yes
Extreme (30°C)		1711.0557	1778.9479	0.2	0.000	Yes
Extreme (10°C)		1711.0557	1778.9479	0.3	0.000	Yes
Extreme (0°C)		1711.0557	1778.9479	0.3	0.000	Yes
Extreme (-10°C)		1711.0557	1778.9479	-2.6	-0.002	Yes
Extreme (-20°C)		1711.0557	1778.9479	-2.2	-0.001	Yes
Extreme (-30°C)		1711.0557	1778.9479	2.0	0.001	Yes
20°C	15%	1711.0557	1778.9479	4.7	0.003	Yes
	-15%	1711.0557	1778.9479	-3.3	-0.002	Yes
	End Point Voltage	1711.0557	1778.9479	-0.5	0.000	Yes

9.4.3. 5G NR n66 (BPSK 40MHz BANDWIDTH)

Test Engineer ID:	27966	Test Date:	2025-01-29
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Band	66	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1710	1780			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	1710.7741	1779.1949			
Extreme (50°C)		1710.7741	1779.1949	-3.1	-0.002	Yes
Extreme (40°C)		1710.7741	1779.1949	1.2	0.001	Yes
Extreme (30°C)		1710.7741	1779.1949	1.5	0.001	Yes
Extreme (10°C)		1710.7742	1779.1949	2.2	0.001	Yes
Extreme (0°C)		1710.7742	1779.1949	2.6	0.001	Yes
Extreme (-10°C)		1710.7742	1779.1949	2.8	0.002	Yes
Extreme (-20°C)		1710.7742	1779.1949	3.3	0.002	Yes
Extreme (-30°C)		1710.7742	1779.1949	3.0	0.002	Yes
20°C	15%	1710.7741	1779.1949	1.3	0.001	Yes
	-15%	1710.7741	1779.1949	1.3	0.001	Yes
	End Point Voltage	1710.7741	1779.1949	-1.7	-0.001	Yes

9.5. PEAK-TO-AVERAGE POWER RATIO

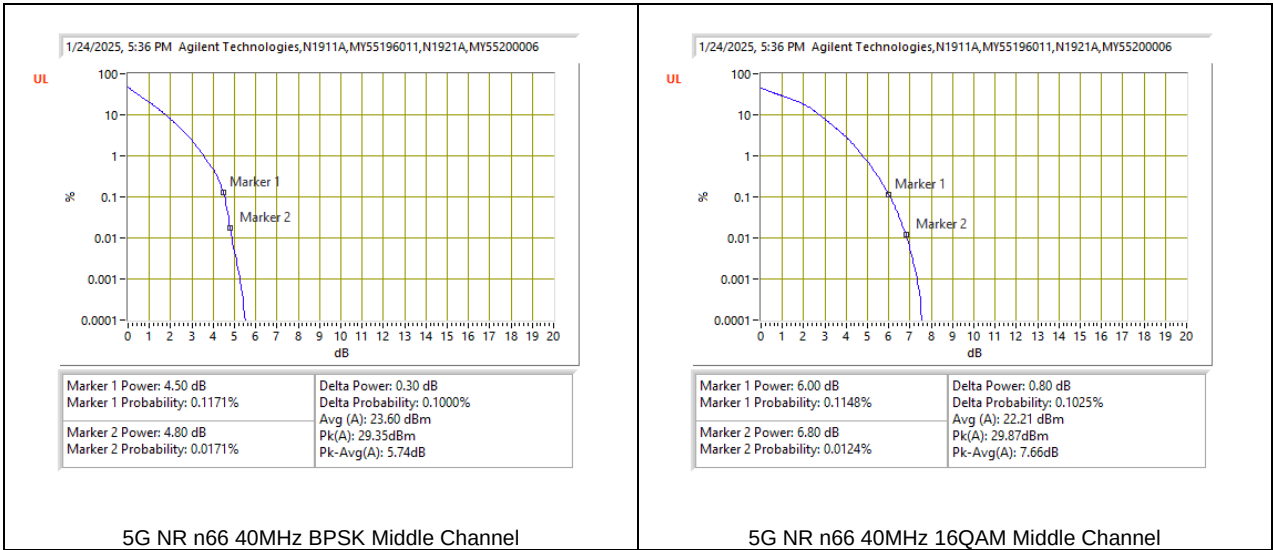
LIMIT

FCC: §27.50 (d) (5)
In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

RESULT

The worst-case antenna port for conducted power shown in section 6.5. was used to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

Example Plots: FULL RB



9.5.1. LTE BAND 4

Test Engineer ID:	27996	Test Date:	2025-01-17
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 4	1.4MHz	1732.5	6	0	QPSK	30.25	23.40	6.85
					16QAM	29.45	22.48	6.97
	3MHz		15	0	QPSK	30.29	23.42	6.87
					16QAM	29.75	22.44	7.31
	5MHz		25	0	QPSK	30.24	23.47	6.77
					16QAM	29.80	22.49	7.31
	10MHz		50	0	QPSK	30.40	23.47	6.93
					16QAM	29.74	22.46	7.28
	15MHz		75	0	QPSK	30.25	23.48	6.77
					16QAM	29.60	22.47	7.13
	20MHz		100	0	QPSK	30.17	23.48	6.69
					16QAM	29.70	22.45	7.25
Duty Cycle Correction Factor (dB) =								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.2. LTE BAND 66

Test Engineer ID:	27996	Test Date:	2025-01-17
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 66	1.4MHz	1745.0	6	0	QPSK	29.07	23.22	5.85
					16QAM	28.13	22.22	5.91
	3MHz		15	0	QPSK	29.04	23.24	5.80
					16QAM	28.30	22.19	6.11
	5MHz		25	0	QPSK	29.05	23.21	5.84
					16QAM	28.30	22.19	6.11
	10MHz		50	0	QPSK	29.29	23.19	6.10
					16QAM	28.43	22.19	6.24
	15MHz		75	0	QPSK	29.42	23.26	6.16
					16QAM	28.57	22.26	6.31
	20MHz		100	0	QPSK	29.77	23.23	6.54
					16QAM	29.19	22.22	6.97
Duty Cycle Correction Factor (dB) =								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.3. 5G NR n66

Test Engineer ID:	27996	Test Date:	2025-01-24
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR n66	5MHz	1745.0	25	0	BPSK	29.97	23.91	6.06
					16QAM	29.47	22.41	7.06
	10MHz		50	0	BPSK	29.96	23.9	6.06
					16QAM	29.55	22.4	7.15
	15MHz		75	0	BPSK	29.79	22.41	7.38
					16QAM	29.65	22.41	7.24
	20MHz		100	0	BPSK	29.50	23.87	5.63
					16QAM	29.55	22.37	7.18
	25MHz		128	0	BPSK	29.60	23.69	5.91
					16QAM	29.80	22.29	7.51
	30MHz		160	0	BPSK	29.67	23.72	5.95
					16QAM	29.73	22.28	7.45
	40MHz		216	0	BPSK	29.35	23.6	5.75
					16QAM	29.87	22.21	7.66
Duty Cycle Correction Factor (dB) =								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

10. RADIATED TEST RESULTS

10.1. EFFECTIVE RADIATED POWER ERP/EIRP

RULE PART(S)

FCC: §2.1046, §27.50

LIMITS

27.50(d) - (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

TEST PROCEDURE

ANSI / TIA / EIA 603-E (2016), Clause 2.2.17; PSA setting reference to 971168 D01

For peak power measurement with a PSA:

a) Set the RBW $\geq$ OBW; b) Set VBW $\geq 3 \times$ RBW; c) Set span $\geq 2 \times$ RBW; d) Sweep time = auto couple; e) Detector = peak; f) Ensure that the number of measurement points $\geq$ span/RBW; g) Trace mode = max hold;

For average power measurement with a PSA:

a) Set span to at least 1.5 times the OBW; b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz; c) Set VBW $\geq 3 \times$ RBW; d) Set number of points in sweep $\geq 2 \times$ span / RBW; e) Sweep time = auto-couple; f) Detector = RMS (power averaging); g) Use free run trigger If burst duty cycle ≥ 98 ; h) Use trigger to capture bursts If burst duty cycle < 98 ; i) Trace average at least 100 traces in power averaging (i.e., RMS) mode. j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

TEST RESULTS

LTE Band 4

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	W
20	QPSK	1/0	1720	23.68	0.233
		1/0	1732.5	23.70	0.234
		1/0	1745	23.40	0.219
	16QAM	1/0	1720	23.13	0.206
		1/0	1732.5	23.28	0.213
		1/0	1745	23.01	0.200
15	QPSK	1/0	1717.5	23.29	0.213
		1/0	1732.5	23.66	0.232
		1/0	1747.5	23.03	0.201
	16QAM	1/0	1717.5	22.82	0.191
		1/0	1732.5	23.30	0.214
		1/0	1747.5	22.61	0.182
10	QPSK	1/0	1715	23.37	0.217
		1/0	1732.5	23.73	0.236
		1/0	1750	22.99	0.199
	16QAM	1/0	1715	22.86	0.193
		1/0	1732.5	23.22	0.210
		1/0	1750	22.54	0.179
5	QPSK	1/0	1712.5	23.56	0.227
		1/0	1732.5	23.71	0.235
		1/0	1752.5	23.24	0.211
	16QAM	1/0	1712.5	23.15	0.207
		1/0	1732.5	23.11	0.205
		1/0	1752.5	22.78	0.190
3	QPSK	1/0	1711.5	23.56	0.227
		1/0	1732.5	23.65	0.232
		1/0	1753.5	23.14	0.206
	16QAM	1/0	1711.5	23.03	0.201
		1/0	1732.5	23.19	0.208
		1/0	1753.5	22.64	0.184
1.4	QPSK	1/0	1710.7	23.26	0.212
		1/0	1732.5	23.39	0.218
		1/0	1754.3	22.86	0.193
	16QAM	1/0	1710.7	22.90	0.195
		1/0	1732.5	23.15	0.207
		1/0	1754.3	22.39	0.173

LTE Band 66

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	W
20	QPSK	1/0	1720	24.00	0.251
		1/0	1745	23.65	0.232
		1/0	1770	23.63	0.231
	16QAM	1/0	1720	23.76	0.238
		1/0	1745	23.39	0.218
		1/0	1770	23.36	0.217
15	QPSK	1/0	1717.5	23.72	0.236
		1/0	1745	23.69	0.234
		1/0	1772.5	23.28	0.213
	16QAM	1/0	1717.5	23.46	0.222
		1/0	1745	23.36	0.217
		1/0	1772.5	23.05	0.202
10	QPSK	1/0	1715	23.87	0.244
		1/0	1745	23.83	0.242
		1/0	1775	23.24	0.211
	16QAM	1/0	1715	23.45	0.221
		1/0	1745	23.29	0.213
		1/0	1775	23.00	0.200
5	QPSK	1/0	1712.5	23.94	0.248
		1/0	1745	23.76	0.238
		1/0	1777.5	23.31	0.214
	16QAM	1/0	1712.5	23.55	0.226
		1/0	1745	23.34	0.216
		1/0	1777.5	23.02	0.200
3	QPSK	1/0	1711.5	23.59	0.229
		1/0	1745	23.44	0.221
		1/0	1778.5	23.01	0.200
	16QAM	1/0	1711.5	23.21	0.209
		1/0	1745	23.18	0.208
		1/0	1778.5	22.75	0.188
1.4	QPSK	1/0	1710.7	23.57	0.228
		1/0	1745	23.42	0.220
		1/0	1779.3	22.97	0.198
	16QAM	1/0	1710.7	23.17	0.207
		1/0	1745	23.16	0.207
		1/0	1779.3	22.71	0.187

5G NR n66

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	W
40	BPSK	1/1	1730	23.83	0.242
		1/1	1745	23.34	0.216
		1/1	1760	23.73	0.236
	16QAM	1/1	1730	23.33	0.215
		1/1	1745	22.90	0.195
		1/1	1760	23.32	0.215
30	BPSK	1/1	1725	23.80	0.240
		1/1	1745	23.25	0.211
		1/1	1765	23.68	0.233
	16QAM	1/1	1725	23.31	0.214
		1/1	1745	22.87	0.194
		1/1	1765	23.26	0.212
25	BPSK	1/1	1722.5	22.15	0.164
		1/1	1745	21.71	0.148
		1/1	1767.5	22.60	0.182
	16QAM	1/1	1722.5	22.04	0.160
		1/1	1745	21.48	0.141
		1/1	1767.5	22.00	0.158
20	BPSK	1/1	1720	23.82	0.241
		1/1	1745	22.72	0.187
		1/1	1770	21.21	0.132
	16QAM	1/1	1720	23.63	0.231
		1/1	1745	22.21	0.166
		1/1	1770	20.86	0.122
15	BPSK	1/1	1717.5	22.80	0.191
		1/1	1745	22.26	0.168
		1/1	1772.5	22.69	0.186
	16QAM	1/1	1717.5	22.34	0.171
		1/1	1745	21.83	0.152
		1/1	1772.5	22.26	0.168
10	BPSK	1/1	1715	22.77	0.189
		1/1	1745	22.20	0.166
		1/1	1775	22.64	0.184
	16QAM	1/1	1715	22.39	0.173
		1/1	1745	21.84	0.153
		1/1	1775	22.22	0.167
5	BPSK	1/1	1712.5	22.59	0.182
		1/1	1745	22.16	0.164
		1/1	1777.5	22.64	0.184
	16QAM	1/1	1712.5	22.24	0.167
		1/1	1745	21.69	0.148
		1/1	1777.5	22.17	0.165

10.1.1. LTE Band 4

20MHz QPSK									20MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement									UL Verification Services, Inc. High Frequency Substitution Measurement								
Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 4 Fundamentals, 20MHz Bandwidth									Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 4 Fundamentals, 20MHz Bandwidth								
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1720.00	20.61	V	6.2	5.8	20.17	30.0	-9.8		1720.00	20.32	V	6.2	5.8	19.88	30.0	-10.1	
1720.00	24.12	H	6.2	5.8	23.68	30.0	-6.3		1720.00	23.57	H	6.2	5.8	23.13	30.0	-6.9	
Mid Ch									Mid Ch								
1732.50	21.45	V	6.2	5.7	20.91	30.0	-9.1		1732.50	21.11	V	6.2	5.7	20.57	30.0	-9.4	
1732.50	24.24	H	6.2	5.7	23.70	30.0	-6.3		1732.50	23.82	H	6.2	5.7	23.28	30.0	-6.7	
High Ch									High Ch								
1745.00	18.63	V	6.2	5.6	17.99	30.0	-12.0		1745.00	18.33	V	6.2	5.6	17.69	30.0	-12.3	
1745.00	24.04	H	6.2	5.6	23.40	30.0	-6.6		1745.00	23.65	H	6.2	5.6	23.01	30.0	-7.0	

15MHz QPSK									15MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement									UL Verification Services, Inc. High Frequency Substitution Measurement								
Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 4 Fundamentals, 15MHz Bandwidth									Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 4 Fundamentals, 15MHz Bandwidth								
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1717.50	20.61	V	6.2	5.5	19.91	30.0	-10.1		1717.50	20.31	V	6.2	5.5	19.61	30.0	-10.4	
1717.50	23.99	H	6.2	5.5	23.29	30.0	-6.7		1717.50	23.52	H	6.2	5.5	22.82	30.0	-7.2	
Mid Ch									Mid Ch								
1732.50	21.41	V	6.2	5.7	20.87	30.0	-9.1		1732.50	21.09	V	6.2	5.7	20.55	30.0	-9.4	
1732.50	24.20	H	6.2	5.7	23.66	30.0	-6.3		1732.50	23.84	H	6.2	5.7	23.30	30.0	-6.7	
High Ch									High Ch								
1747.50	18.60	V	6.2	5.3	17.63	30.0	-12.4		1747.50	18.38	V	6.2	5.3	17.41	30.0	-12.6	
1747.50	24.00	H	6.2	5.3	23.03	30.0	-7.0		1747.50	23.98	H	6.2	5.3	22.61	30.0	-7.4	

10MHz QPSK									10MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement									UL Verification Services, Inc. High Frequency Substitution Measurement								
Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 4 Fundamentals, 10MHz Bandwidth									Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 4 Fundamentals, 10MHz Bandwidth								
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1715.00	20.59	V	6.2	5.6	19.91	30.0	-10.1		1715.00	20.26	V	6.2	5.6	19.58	30.0	-10.4	
1715.00	24.05	H	6.2	5.6	23.37	30.0	-6.6		1715.00	23.54	H	6.2	5.6	22.86	30.0	-7.1	
Mid Ch									Mid Ch								
1732.50	21.38	V	6.2	5.7	20.84	30.0	-9.2		1732.50	21.11	V	6.2	5.7	20.57	30.0	-9.4	
1732.50	24.27	H	6.2	5.7	23.73	30.0	-6.3		1732.50	23.76	H	6.2	5.7	23.22	30.0	-6.8	
High Ch									High Ch								
1750.00	18.56	V	6.2	5.3	17.57	30.0	-12.4		1750.00	18.27	V	6.2	5.3	17.28	30.0	-12.7	
1750.00	23.98	H	6.2	5.3	22.99	30.0	-7.0		1750.00	23.53	H	6.2	5.3	22.54	30.0	-7.5	

5MHz QPSK									5MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement									UL Verification Services, Inc. High Frequency Substitution Measurement								
Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 4 Fundamentals, 5MHz Bandwidth									Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 4 Fundamentals, 5MHz Bandwidth								
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable								
f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Ch									Low Ch								
1712.50	20.51	V	6.2	5.9	20.13	30.0	-9.9		1712.50	20.21	V	6.2	5.9	19.83	30.0	-10.2	
1712.50	23.94	H	6.2	5.9	23.56	30.0	-6.4		1712.50	23.53	H	6.2	5.9	23.15	30.0	-6.9	
Mid Ch									Mid Ch								
1732.50	21.35	V	6.2	5.7	20.81	30.0	-9.2		1732.50	21.15	V	6.2	5.7	20.61	30.0	-9.4	
1732.50	24.25	H	6.2	5.7	23.71	30.0	-6.3		1732.50	23.65	H	6.2	5.7	23.11	30.0	-6.9	
High Ch									High Ch								
1752.50	18.56	V	6.2	5.5	17.86	30.0	-12.1		1752.50	18.25	V	6.2	5.5	17.55	30.0	-12.5	
1752.50	23.94	H	6.2	5.5	23.24	30.0	-6.8		1752.50	23.48	H	6.2	5.5	22.78	30.0	-7.2	
3MHz QPSK									3MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement									UL Verification Services, Inc. High Frequency Substitution Measurement								
Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 4 Fundamentals, 3MHz Bandwidth									Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 4 Fundamentals, 3MHz Bandwidth								
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable								
f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Ch									Low Ch								
1711.50	20.58	V	6.2	5.7	20.07	30.0	-9.9		1711.50	20.25	V	6.2	5.7	19.74	30.0	-10.3	
1711.50	24.07	H	6.2	5.7	23.56	30.0	-6.4		1711.50	23.54	H	6.2	5.7	23.03	30.0	-7.0	
Mid Ch									Mid Ch								
1732.50	21.43	V	6.2	5.7	20.89	30.0	-9.1		1732.50	21.04	V	6.2	5.7	20.50	30.0	-9.5	
1732.50	24.19	H	6.2	5.7	23.65	30.0	-6.3		1732.50	23.73	H	6.2	5.7	23.19	30.0	-6.8	
High Ch									High Ch								
1753.50	18.59	V	6.2	5.4	17.73	30.0	-12.3		1753.50	18.26	V	6.2	5.4	17.40	30.0	-12.6	
1753.50	24.00	H	6.2	5.4	23.14	30.0	-6.9		1753.50	23.50	H	6.2	5.4	22.64	30.0	-7.4	
1.4MHz QPSK									1.4MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement									UL Verification Services, Inc. High Frequency Substitution Measurement								
Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 4 Fundamentals, 1.4MHz Bandwidth									Company: Samsung Project #: 15605535 Date: 1/9/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 4 Fundamentals, 1.4MHz Bandwidth								
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable								
f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Ch									Low Ch								
1710.70	20.49	V	6.2	5.6	19.84	30.0	-10.2		1710.70	20.11	V	6.2	5.6	19.46	30.0	-10.5	
1710.70	23.91	H	6.2	5.6	23.26	30.0	-6.7		1710.70	23.55	H	6.2	5.6	22.90	30.0	-7.1	
Mid Ch									Mid Ch								
1732.50	21.37	V	6.2	5.7	20.83	30.0	-9.2		1732.50	21.01	V	6.2	5.7	20.47	30.0	-9.5	
1732.50	23.93	H	6.2	5.7	23.39	30.0	-6.6		1732.50	23.69	H	6.2	5.7	23.15	30.0	-6.8	
High Ch									High Ch								
1754.30	18.55	V	6.2	5.2	17.54	30.0	-12.5		1754.30	18.14	V	6.2	5.2	17.13	30.0	-12.9	
1754.30	23.87	H	6.2	5.2	22.86	30.0	-7.1		1754.30	23.40	H	6.2	5.2	22.39	30.0	-7.6	

10.1.2. LTE Band 66

20MHz QPSK										20MHz 16QAM									
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement									
Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 20MHz Bandwidth										Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 20MHz Bandwidth									
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable										Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch	20.57	V	6.2	5.8	20.13	30.0	-9.9			Low Ch	20.27	V	6.2	5.8	19.83	30.0	-10.2		
1720.00	24.44	H	6.2	5.8	24.00	30.0	-6.0			1720.00	24.20	H	6.2	5.8	23.76	30.0	-6.2		
Mid Ch	21.35	V	6.2	5.6	20.71	30.0	-9.3			Mid Ch	21.06	V	6.2	5.6	20.42	30.0	-9.6		
1745.00	24.29	H	6.2	5.6	23.65	30.0	-6.4			1745.00	24.03	H	6.2	5.6	23.39	30.0	-6.6		
High Ch	18.49	V	6.2	5.4	17.66	30.0	-12.3			High Ch	18.11	V	6.2	5.4	17.28	30.0	-12.7		
1770.00	24.46	H	6.2	5.4	23.63	30.0	-6.4			1770.00	24.19	H	6.2	5.4	23.36	30.0	-6.6		

15MHz QPSK										15MHz 16QAM									
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement									
Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 15MHz Bandwidth										Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 15MHz Bandwidth									
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable										Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch	20.59	V	6.2	5.5	19.89	30.0	-10.1			Low Ch	20.24	V	6.2	5.5	19.54	30.0	-10.5		
1717.50	24.42	H	6.2	5.5	23.72	30.0	-6.3			1717.50	24.16	H	6.2	5.5	23.46	30.0	-6.5		
Mid Ch	21.34	V	6.2	5.6	20.70	30.0	-9.3			Mid Ch	21.01	V	6.2	5.6	20.37	30.0	-9.6		
1745.00	24.33	H	6.2	5.6	23.69	30.0	-6.3			1745.00	24.00	H	6.2	5.6	23.36	30.0	-6.6		
High Ch	18.45	V	6.2	5.1	17.33	30.0	-12.7			High Ch	18.03	V	6.2	5.1	16.91	30.0	-13.1		
1772.50	24.40	H	6.2	5.1	23.28	30.0	-6.7			1772.50	24.17	H	6.2	5.1	23.05	30.0	-7.0		

10MHz QPSK										10MHz 16QAM									
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement									
Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 10MHz Bandwidth										Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 10MHz Bandwidth									
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable										Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch	20.65	V	6.2	5.6	19.97	30.0	-10.0			Low Ch	20.29	V	6.2	5.6	19.61	30.0	-10.4		
1715.00	24.55	H	6.2	5.6	23.87	30.0	-6.1			1715.00	24.13	H	6.2	5.6	23.45	30.0	-6.6		
Mid Ch	21.40	V	6.2	5.6	20.76	30.0	-9.2			Mid Ch	21.09	V	6.2	5.6	20.45	30.0	-9.6		
1745.00	24.47	H	6.2	5.6	23.83	30.0	-6.2			1745.00	23.93	H	6.2	5.6	23.29	30.0	-6.7		
High Ch	18.42	V	6.2	5.1	17.29	30.0	-12.7			High Ch	18.22	V	6.2	5.1	17.09	30.0	-12.9		
1775.00	24.37	H	6.2	5.1	23.24	30.0	-6.8			1775.00	24.13	H	6.2	5.1	23.00	30.0	-7.0		

5MHz QPSK									5MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement									UL Verification Services, Inc. High Frequency Substitution Measurement								
Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 5MHz Bandwidth									Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 5MHz Bandwidth								
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable								
f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Ch									Low Ch								
1712.50	20.70	V	6.2	5.6	20.04	30.0	-10.0		1712.50	20.37	V	6.2	5.6	19.71	30.0	-10.3	
1712.50	24.60	H	6.2	5.6	23.94	30.0	-6.1		1712.50	24.21	H	6.2	5.6	23.55	30.0	-6.5	
Mid Ch									Mid Ch								
1745.00	21.37	V	6.2	5.6	20.73	30.0	-9.3		1745.00	21.10	V	6.2	5.6	20.46	30.0	-9.5	
1745.00	24.40	H	6.2	5.6	23.76	30.0	-6.2		1745.00	23.98	H	6.2	5.6	23.34	30.0	-6.7	
High Ch									High Ch								
1777.50	18.49	V	6.2	5.1	17.34	30.0	-12.7		1777.50	18.22	V	6.2	5.1	17.07	30.0	-12.9	
1777.50	24.46	H	6.2	5.1	23.31	30.0	-6.7		1777.50	24.17	H	6.2	5.1	23.02	30.0	-7.0	
3MHz QPSK									3MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement									UL Verification Services, Inc. High Frequency Substitution Measurement								
Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 3MHz Bandwidth									Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 3MHz Bandwidth								
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable								
f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Ch									Low Ch								
1711.50	20.37	V	6.2	5.6	19.72	30.0	-10.3		1711.50	20.11	V	6.2	5.6	19.46	30.0	-10.5	
1711.50	24.24	H	6.2	5.6	23.59	30.0	-6.4		1711.50	23.86	H	6.2	5.6	23.21	30.0	-6.8	
Mid Ch									Mid Ch								
1745.00	21.05	V	6.2	5.6	20.41	30.0	-9.6		1745.00	20.74	V	6.2	5.6	20.10	30.0	-9.9	
1745.00	24.08	H	6.2	5.6	23.44	30.0	-6.6		1745.00	23.82	H	6.2	5.6	23.18	30.0	-6.8	
High Ch									High Ch								
1778.50	18.28	V	6.2	5.1	17.13	30.0	-12.9		1778.50	17.90	V	6.2	5.1	16.75	30.0	-13.3	
1778.50	24.16	H	6.2	5.1	23.01	30.0	-7.0		1778.50	23.90	H	6.2	5.1	22.75	30.0	-7.3	
1.4MHz QPSK									1.4MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement									UL Verification Services, Inc. High Frequency Substitution Measurement								
Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 1.4MHz Bandwidth									Company: Samsung Project #: 15605535 Date: 1/14/2025 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 1.4MHz Bandwidth								
Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable									Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable								
f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Ch									Low Ch								
1710.70	20.37	V	6.2	5.6	19.72	30.0	-10.3		1710.70	20.07	V	6.2	5.6	19.42	30.0	-10.6	
1710.70	24.22	H	6.2	5.6	23.57	30.0	-6.4		1710.70	23.82	H	6.2	5.6	23.17	30.0	-6.8	
Mid Ch									Mid Ch								
1745.00	21.01	V	6.2	5.6	20.37	30.0	-9.6		1745.00	20.71	V	6.2	5.6	20.07	30.0	-9.9	
1745.00	24.06	H	6.2	5.6	23.42	30.0	-6.6		1745.00	23.80	H	6.2	5.6	23.16	30.0	-6.8	
High Ch									High Ch								
1779.30	18.25	V	6.2	5.1	17.09	30.0	-12.9		1779.30	17.85	V	6.2	5.1	16.69	30.0	-13.3	
1779.30	24.13	H	6.2	5.1	22.97	30.0	-7.0		1779.30	23.07	H	6.2	5.1	22.71	30.0	-7.3	

10.1.3. 5G NR n66

40MHz BPSK								
UL Verification Services, Inc. High Frequency Substitution Measurement								
Company:		Samsung						
Project #:		15605535						
Date:		1/29/2025						
Test Engineer:		39005						
Configuration:		EUT only						
Location:		Chamber K						
Mode:		FR1_N66_BPSK 40 MHz Fundamentals						
Test Equipment:								
Receiving: Horn 206808, and Chamber K SMA Cables								
Substitution: Horn 223083, Chamber K SMA Cable								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1730.00	20.44	V	6.2	5.8	20.00	30.0	-10.0	19.7
1730.00	24.27	H	6.2	5.8	23.83	30.0	-6.2	23.3
Mid Ch								
1745.00	21.15	V	6.2	5.6	20.51	30.0	-9.5	20.1
1745.00	23.98	H	6.2	5.6	23.34	30.0	-6.7	22.9
High Ch								
1760.00	18.34	V	6.2	5.4	17.51	30.0	-12.5	17.1
1760.00	24.56	H	6.2	5.4	23.73	30.0	-6.3	23.3

40MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement								
Company:		Samsung						
Project #:		15605535						
Date:		1/29/2025						
Test Engineer:		39005						
Configuration:		EUT only						
Location:		Chamber K						
Mode:		FR1_N66_16QAM 40 MHz Fundamentals						
Test Equipment:								
Receiving: Horn 206808, and Chamber K SMA Cables								
Substitution: Horn 223083, Chamber K SMA Cable								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1730.00	20.10	V	6.2	5.8	19.66	30.0	-10.3	
1730.00	23.77	H	6.2	5.8	23.33	30.0	-6.7	
Mid Ch								
1745.00	20.70	V	6.2	5.6	20.06	30.0	-9.9	
1745.00	23.54	H	6.2	5.6	22.90	30.0	-7.1	
High Ch								
1760.00	17.94	V	6.2	5.4	17.11	30.0	-12.9	
1760.00	24.15	H	6.2	5.4	23.32	30.0	-6.7	

30MHz BPSK								
UL Verification Services, Inc. High Frequency Substitution Measurement								
Company:		Samsung						
Project #:		15605535						
Date:		1/29/2025						
Test Engineer:		39005						
Configuration:		EUT only						
Location:		Chamber K						
Mode:		FR1_N66_BPSK 30 MHz Fundamentals						
Test Equipment:								
Receiving: Horn 206808, and Chamber K SMA Cables								
Substitution: Horn 223083, Chamber K SMA Cable								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1725.00	20.44	V	6.2	5.8	20.00	30.0	-10.0	
1725.00	24.24	H	6.2	5.8	23.80	30.0	-6.2	
Mid Ch								
1745.00	21.14	V	6.2	5.6	20.50	30.0	-9.5	
1745.00	23.89	H	6.2	5.6	23.25	30.0	-6.8	
High Ch								
1765.00	18.28	V	6.2	5.4	17.45	30.0	-12.5	
1765.00	24.51	H	6.2	5.4	23.68	30.0	-6.3	

30MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement								
Company:		Samsung						
Project #:		15605535						
Date:		1/29/2025						
Test Engineer:		39005						
Configuration:		EUT only						
Location:		Chamber K						
Mode:		FR1_N66_16QAM 30 MHz Fundamentals						
Test Equipment:								
Receiving: Horn 206808, and Chamber K SMA Cables								
Substitution: Horn 223083, Chamber K SMA Cable								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1725.00	20.03	V	6.2	5.8	19.59	30.0	-10.4	
1725.00	23.75	H	6.2	5.8	23.31	30.0	-6.7	
Mid Ch								
1745.00	20.66	V	6.2	5.6	20.02	30.0	-10.0	
1745.00	23.51	H	6.2	5.6	22.87	30.0	-7.1	
High Ch								
1765.00	17.90	V	6.2	5.4	17.07	30.0	-12.9	
1765.00	24.09	H	6.2	5.4	23.26	30.0	-6.7	

25MHz BPSK								
UL Verification Services, Inc. High Frequency Substitution Measurement								
Company:		Samsung						
Project #:		15605535						
Date:		2/5/2025						
Test Engineer:		27966						
Configuration:		EUT Only						
Location:		Chamber L						
Mode:		FR1_N66_BPSK 25 MHz Fundamentals						
Test Equipment:								
Receiving: Horn 206805, and Chamber L SMA Cables								
Substitution: Horn 223083, PRE0183392 N-Type Cable								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1722.50	17.74	V	2.2	5.6	21.17	30.0	-8.8	
1722.50	18.72	H	2.2	5.6	22.15	30.0	-7.8	
Mid Ch								
1745.00	17.69	V	2.2	5.4	20.93	30.0	-9.1	
1745.00	18.47	H	2.2	5.4	21.71	30.0	-8.3	
High Ch								
1767.50	18.19	V	2.2	5.2	21.20	30.0	-8.8	
1767.50	19.59	H	2.2	5.2	22.60	30.0	-7.4	

25MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement								
Company:		Samsung						
Project #:		15605535						
Date:		2/5/2025						
Test Engineer:		27966						
Configuration:		EUT Only						
Location:		Chamber L						
Mode:		FR1_N66_16QAM 25 MHz Fundamentals						
Test Equipment:								
Receiving: Horn 206805, and Chamber L SMA Cables								
Substitution: Horn 223083, PRE0183392 N-Type Cable								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1722.50	16.87	V	2.2	5.6	20.30	30.0	-9.7	
1722.50	18.61	H	2.2	5.6	22.04	30.0	-8.0	
Mid Ch								
1745.00	17.08	V	2.2	5.4	20.32	30.0	-9.7	
1745.00	18.24	H	2.2	5.4	21.48	30.0	-8.5	
High Ch								
1767.50	17.34	V	2.2	5.2	20.35	30.0	-9.6	
1767.50	18.99	H	2.2	5.2	22.00	30.0	-8.0	

20MHz BPSK									20MHz 16QAM																																																																																																																																																																																																														
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 15605535 Date: 1/29/2025 Test Engineer: 39005 Configuration: EUT only Location: Chamber K Mode: FR1_N66_BPSK 20 MHz Fundamentals Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable <table><tr><th>f MHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Cable Loss (dB)</th><th>Antenna Gain (dBi)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td>Low Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1720.00</td><td>20.40</td><td>V</td><td>6.2</td><td>5.8</td><td>19.96</td><td>30.0</td><td>-10.0</td><td></td></tr><tr><td>1720.00</td><td>24.26</td><td>H</td><td>6.2</td><td>5.8</td><td>23.82</td><td>30.0</td><td>-6.2</td><td></td></tr><tr><td>Mid Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1745.00</td><td>20.68</td><td>V</td><td>6.2</td><td>5.6</td><td>20.04</td><td>30.0</td><td>-10.0</td><td></td></tr><tr><td>1745.00</td><td>23.36</td><td>H</td><td>6.2</td><td>5.6</td><td>22.72</td><td>30.0</td><td>-7.3</td><td></td></tr><tr><td>High Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1770.00</td><td>17.77</td><td>V</td><td>6.2</td><td>5.4</td><td>16.94</td><td>30.0</td><td>-13.1</td><td></td></tr><tr><td>1770.00</td><td>22.04</td><td>H</td><td>6.2</td><td>5.4</td><td>21.21</td><td>30.0</td><td>-8.8</td><td></td></tr></table>																		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1720.00	20.40	V	6.2	5.8	19.96	30.0	-10.0		1720.00	24.26	H	6.2	5.8	23.82	30.0	-6.2		Mid Ch									1745.00	20.68	V	6.2	5.6	20.04	30.0	-10.0		1745.00	23.36	H	6.2	5.6	22.72	30.0	-7.3		High Ch									1770.00	17.77	V	6.2	5.4	16.94	30.0	-13.1		1770.00	22.04	H	6.2	5.4	21.21	30.0	-8.8		UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 15605535 Date: 1/29/2025 Test Engineer: 39005 Configuration: EUT only Location: Chamber K Mode: FR1_N66_16QAM 20 MHz Fundamentals Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable <table><tr><th>f MHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Cable Loss (dB)</th><th>Antenna Gain (dBi)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td>Low Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1720.00</td><td>20.01</td><td>V</td><td>6.2</td><td>5.8</td><td>19.57</td><td>30.0</td><td>-10.4</td><td></td></tr><tr><td>1720.00</td><td>24.07</td><td>H</td><td>6.2</td><td>5.8</td><td>23.63</td><td>30.0</td><td>-6.4</td><td></td></tr><tr><td>Mid Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1745.00</td><td>20.49</td><td>V</td><td>6.2</td><td>5.6</td><td>19.85</td><td>30.0</td><td>-10.2</td><td></td></tr><tr><td>1745.00</td><td>22.85</td><td>H</td><td>6.2</td><td>5.6</td><td>22.21</td><td>30.0</td><td>-7.8</td><td></td></tr><tr><td>High Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1770.00</td><td>17.41</td><td>V</td><td>6.2</td><td>5.4</td><td>16.58</td><td>30.0</td><td>-13.4</td><td></td></tr><tr><td>1770.00</td><td>21.69</td><td>H</td><td>6.2</td><td>5.4</td><td>20.86</td><td>30.0</td><td>-9.1</td><td></td></tr></table>																		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1720.00	20.01	V	6.2	5.8	19.57	30.0	-10.4		1720.00	24.07	H	6.2	5.8	23.63	30.0	-6.4		Mid Ch									1745.00	20.49	V	6.2	5.6	19.85	30.0	-10.2		1745.00	22.85	H	6.2	5.6	22.21	30.0	-7.8		High Ch									1770.00	17.41	V	6.2	5.4	16.58	30.0	-13.4		1770.00	21.69	H	6.2	5.4	20.86	30.0	-9.1	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																															
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1745.00	20.68	V	6.2	5.6	20.04	30.0	-10.0																																																																																																																																																																																																																
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1770.00	17.41	V	6.2	5.4	16.58	30.0	-13.4																																																																																																																																																																																																																
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UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 15605535 Date: 1/29/2025 Test Engineer: 39005 Configuration: EUT only Location: Chamber K Mode: FR1_N65_BPSK 5 Mhz Fundamentals Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable <table><tr><th>f MHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Cable Loss (dB)</th><th>Antenna Gain (dBi)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="9">Low Ch</td></tr><tr><td>1712.50</td><td>19.35</td><td>V</td><td>6.2</td><td>5.8</td><td>18.91</td><td>30.0</td><td>-11.1</td><td></td></tr><tr><td>1712.50</td><td>23.03</td><td>H</td><td>6.2</td><td>5.8</td><td>22.59</td><td>30.0</td><td>-7.4</td><td></td></tr><tr><td colspan="9">Mid Ch</td></tr><tr><td>1745.00</td><td>20.04</td><td>V</td><td>6.2</td><td>5.6</td><td>19.40</td><td>30.0</td><td>-10.6</td><td></td></tr><tr><td>1745.00</td><td>22.80</td><td>H</td><td>6.2</td><td>5.6</td><td>22.16</td><td>30.0</td><td>-7.8</td><td></td></tr><tr><td colspan="9">High Ch</td></tr><tr><td>1777.50</td><td>17.18</td><td>V</td><td>6.2</td><td>5.4</td><td>16.35</td><td>30.0</td><td>-13.6</td><td></td></tr><tr><td>1777.50</td><td>23.47</td><td>H</td><td>6.2</td><td>5.4</td><td>22.64</td><td>30.0</td><td>-7.4</td><td></td></tr></table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1712.50	19.35	V	6.2	5.8	18.91	30.0	-11.1		1712.50	23.03	H	6.2	5.8	22.59	30.0	-7.4		Mid Ch									1745.00	20.04	V	6.2	5.6	19.40	30.0	-10.6		1745.00	22.80	H	6.2	5.6	22.16	30.0	-7.8		High Ch									1777.50	17.18	V	6.2	5.4	16.35	30.0	-13.6		1777.50	23.47	H	6.2	5.4	22.64	30.0	-7.4		UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 15605535 Date: 1/29/2025 Test Engineer: 39005 Configuration: EUT only Location: Chamber K Mode: FR1_N65_16QAM 5 Mhz Fundamentals Test Equipment: Receiving: Horn 206808, and Chamber K SMA Cables Substitution: Horn 223083, Chamber K SMA Cable <table><tr><th>f MHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Cable Loss (dB)</th><th>Antenna Gain (dBi)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="9">Low Ch</td></tr><tr><td>1712.50</td><td>18.93</td><td>V</td><td>6.2</td><td>5.8</td><td>18.49</td><td>30.0</td><td>-11.5</td><td></td></tr><tr><td>1712.50</td><td>22.68</td><td>H</td><td>6.2</td><td>5.8</td><td>22.24</td><td>30.0</td><td>-7.8</td><td></td></tr><tr><td colspan="9">Mid Ch</td></tr><tr><td>1745.00</td><td>19.56</td><td>V</td><td>6.2</td><td>5.6</td><td>18.92</td><td>30.0</td><td>-11.1</td><td></td></tr><tr><td>1745.00</td><td>22.33</td><td>H</td><td>6.2</td><td>5.6</td><td>21.69</td><td>30.0</td><td>-8.3</td><td></td></tr><tr><td colspan="9">High Ch</td></tr><tr><td>1777.50</td><td>16.76</td><td>V</td><td>6.2</td><td>5.4</td><td>15.93</td><td>30.0</td><td>-14.1</td><td></td></tr><tr><td>1777.50</td><td>23.00</td><td>H</td><td>6.2</td><td>5.4</td><td>22.17</td><td>30.0</td><td>-7.8</td><td></td></tr></table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1712.50	18.93	V	6.2	5.8	18.49	30.0	-11.5		1712.50	22.68	H	6.2	5.8	22.24	30.0	-7.8		Mid Ch									1745.00	19.56	V	6.2	5.6	18.92	30.0	-11.1		1745.00	22.33	H	6.2	5.6	21.69	30.0	-8.3		High Ch									1777.50	16.76	V	6.2	5.4	15.93	30.0	-14.1		1777.50	23.00	H	6.2	5.4	22.17	30.0	-7.8	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																													
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1712.50	22.68	H	6.2	5.8	22.24	30.0	-7.8																																																																																																																																																																																														
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1745.00	22.33	H	6.2	5.6	21.69	30.0	-8.3																																																																																																																																																																																														
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10.2. FIELD STRENGTH OF SPURIOUS RADIATION, ABOVE 1GHz

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, the radiated emissions is measured directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement.

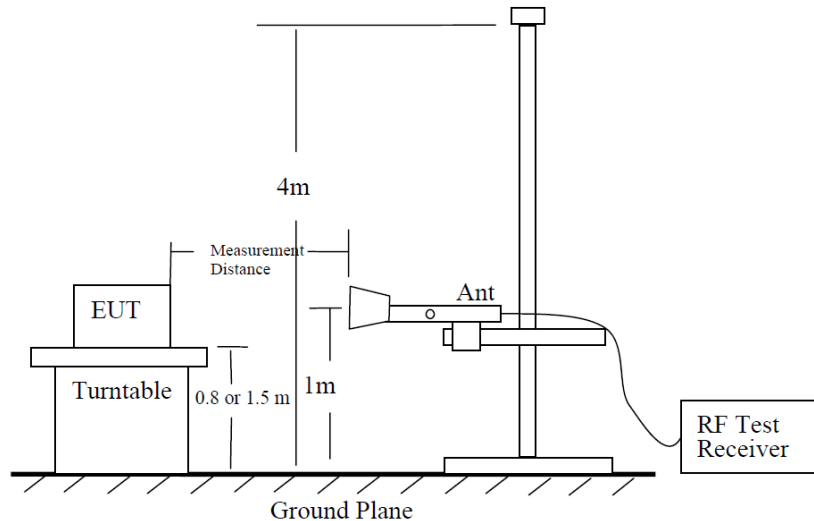


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

LIMITS

FCC: §27.53 (h)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

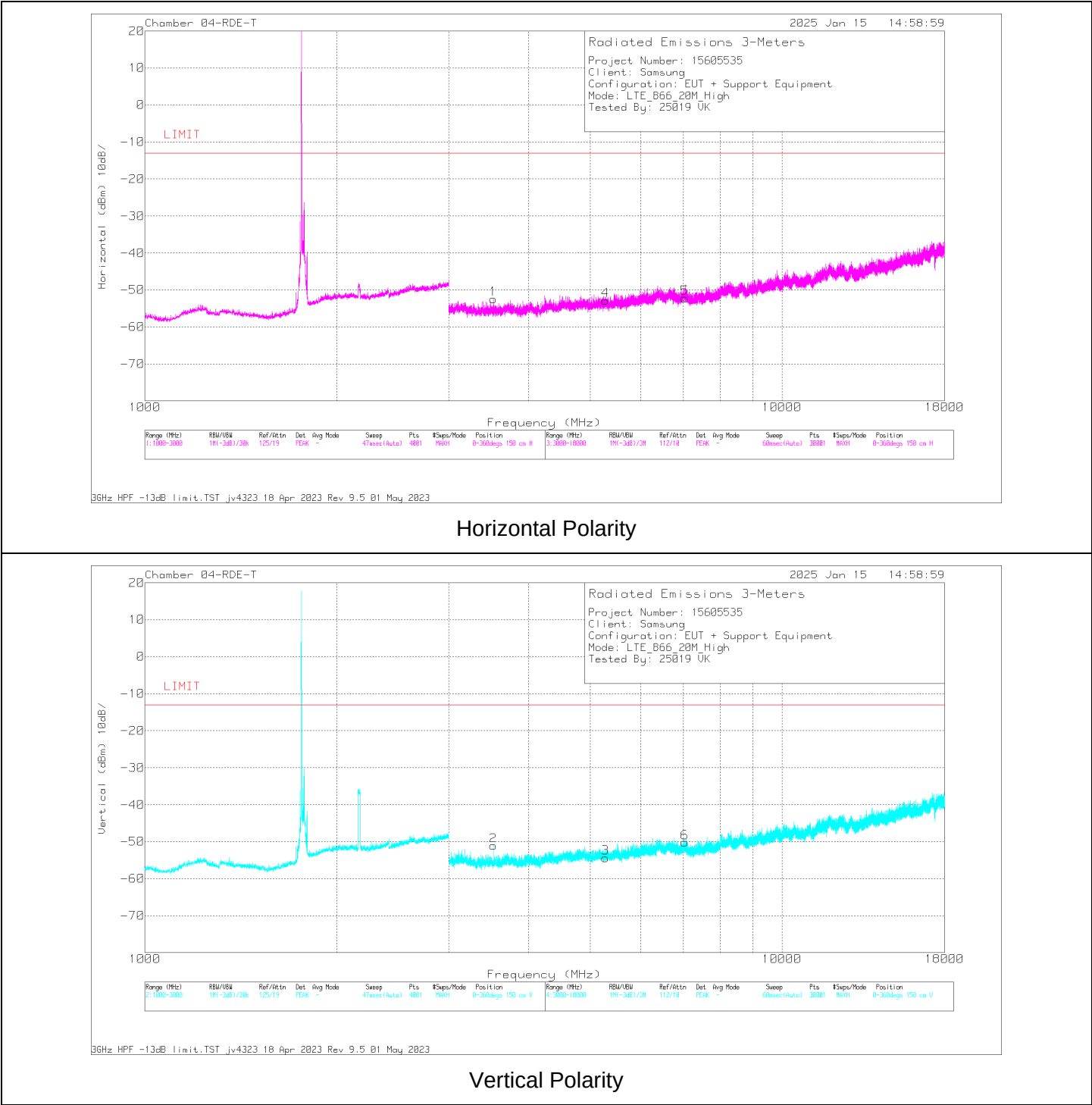
TEST PROCEDURE

KDB 971168 D01 /D02

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz

RESULTS

Example Plot



Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	79834 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
3.521	54.97	Pk	32.6	-95.2	-44.83	-52.46	-13	-39.46	H
3.521	56.35	Pk	32.6	-95.2	-44.85	-51.1	-13	-38.1	V
5.281	53.08	Pk	34.5	-95.2	-45.26	-52.88	-13	-39.88	H
5.281	51.54	Pk	34.5	-95.2	-45.26	-54.42	-13	-41.42	V
7.041	51.07	Pk	35.4	-95.2	-43.51	-52.24	-13	-39.24	H
7.041	53.1	Pk	35.4	-95.2	-43.51	-50.21	-13	-37.21	V

Pk - Peak detector

10.2.1. LTE BAND 4

LTE BAND 4 (QPSK 20.0MHZ BANDWIDTH, Main ANT 1)

Project:	15605535
Date:	2025-01-15
Test Engineer:	25019 VK
Configuration:	EUT + Support Equipment
Mode:	LTE 4 QPSK 20MHz
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	79834 ACF (dB) - 3mH	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
5.130	53.05	Pk	34.3	-95.2	-46.11	-53.96	-13	-40.96	H
5.130	52.49	Pk	34.3	-95.2	-46.11	-54.52	-13	-41.52	V
3.421	51.47	Pk	32.6	-95.2	-45.21	-56.34	-13	-43.34	H
3.421	52.27	Pk	32.6	-95.2	-45.21	-55.54	-13	-42.54	V
6.840	51.68	Pk	35.6	-95.2	-44.28	-52.2	-13	-39.2	H
6.840	51.22	Pk	35.6	-95.2	-44.28	-52.66	-13	-39.66	V
Mid Channel, 1732.5MHz									
3.446	52.39	Pk	32.6	-95.2	-45.13	-55.34	-13	-42.34	H
3.446	52.96	Pk	32.6	-95.2	-45.13	-54.77	-13	-41.77	V
5.166	53.12	Pk	34.4	-95.2	-45.86	-53.54	-13	-40.54	H
5.166	53.7	Pk	34.4	-95.2	-45.86	-52.96	-13	-39.96	V
6.894	60.27	Pk	35.6	-95.2	-44.25	-43.58	-13	-30.58	H
6.894	45.37	RMS	35.6	-95.2	-44.25	-58.48	-13	-45.48	H
6.894	52.41	Pk	35.6	-95.2	-44.3	-51.49	-13	-38.49	V
High Channel, 1745MHz									
3.470	53.14	Pk	32.6	-95.2	-45.17	-54.63	-13	-41.63	H
3.470	52.13	Pk	32.6	-95.2	-45.17	-55.64	-13	-42.64	V
5.205	54.35	Pk	34.5	-95.2	-45.88	-52.23	-13	-39.23	H
5.205	53.35	Pk	34.5	-95.2	-45.88	-53.23	-13	-40.23	V
6.941	51.57	Pk	35.5	-95.2	-43.64	-51.77	-13	-38.77	H
6.941	53.73	Pk	35.5	-95.2	-43.64	-49.61	-13	-36.61	V

LTE BAND 4 (QPSK 20.0MHZ BANDWIDTH, Sub ANT 1)

Project:	15605535
Date:	2025-01-31
Test Engineer:	25019 VK
Configuration:	EUT + Support Equipment
Mode:	LTE 4 QPSK 20MHz
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	79834 ACF (dB) - 3mH	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
* 5130	52.81	Pk	34.3	-95.2	-46.11	-54.2	-13	-41.2	H
* 5130	53.73	Pk	34.3	-95.2	-46.11	-53.28	-13	-40.28	V
3420.5	51.03	Pk	32.6	-95.2	-45.19	-56.76	-13	-43.76	H
3420.5	51.98	Pk	32.6	-95.2	-45.19	-55.81	-13	-42.81	V
6840	53.09	Pk	35.6	-95.2	-44.28	-50.79	-13	-37.79	H
6840	51.04	Pk	35.6	-95.2	-44.28	-52.84	-13	-39.84	V
Mid Channel, 1732.5MHz									
3446	52.87	Pk	32.6	-95.2	-45.13	-54.86	-13	-41.86	H
3446	51.89	Pk	32.6	-95.2	-45.13	-55.84	-13	-42.84	V
5167.5	54.34	Pk	34.4	-95.2	-45.91	-52.37	-13	-39.37	H
5167.5	53.3	Pk	34.4	-95.2	-45.91	-53.41	-13	-40.41	V
6890	50.73	Pk	35.6	-95.2	-44.32	-53.19	-13	-40.19	H
6890	52.47	Pk	35.6	-95.2	-44.32	-51.45	-13	-38.45	V
3446	52.87	Pk	32.6	-95.2	-45.13	-54.86	-13	-41.86	H
High Channel, 1745MHz									
3470	52.12	Pk	32.6	-95.2	-45.17	-55.65	-13	-42.65	H
3470	51.79	Pk	32.6	-95.2	-45.17	-55.98	-13	-42.98	V
5205.5	53.38	Pk	34.5	-95.2	-45.88	-53.2	-13	-40.2	H
5205.5	53	Pk	34.5	-95.2	-45.88	-53.58	-13	-40.58	V
6941	52.55	Pk	35.5	-95.2	-43.62	-50.77	-13	-37.77	H
6941	50.57	Pk	35.5	-95.2	-43.62	-52.75	-13	-39.75	V

10.2.2. LTE BAND 66

LTE BAND 66 (QPSK 20.0MHZ BANDWIDTH, Main ANT 1)

Project:	15605535
Date:	2025-01-15
Test Engineer:	25019 VK
Configuration:	EUT + Support Equipment
Mode:	LTE 66 QPSK 20MHz
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	79834 ACF (dB) - 3mH	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
5.131	52.65	Pk	34.3	-95.2	-46.03	-54.28	-13	-41.28	H
5.131	52.89	Pk	34.3	-95.2	-46.03	-54.04	-13	-41.04	V
3.421	51.97	Pk	32.6	-95.2	-45.19	-55.82	-13	-42.82	H
3.421	52.39	Pk	32.6	-95.2	-45.19	-55.4	-13	-42.4	V
6.840	51.21	Pk	35.6	-95.2	-44.25	-52.64	-13	-39.64	H
6.840	53.29	Pk	35.6	-95.2	-44.25	-50.56	-13	-37.56	V
Mid Channel, 1745MHz									
3.470	51.56	Pk	32.6	-95.2	-45.17	-56.21	-13	-43.21	H
3.470	52.74	Pk	32.6	-95.2	-45.17	-55.03	-13	-42.03	V
5.206	53.9	Pk	34.5	-95.2	-45.87	-52.67	-13	-39.67	H
5.206	52.35	Pk	34.5	-95.2	-45.87	-54.22	-13	-41.22	V
6.940	51.04	Pk	35.5	-95.2	-43.65	-52.31	-13	-39.31	H
6.940	50.58	Pk	35.5	-95.2	-43.65	-52.77	-13	-39.77	V
High Channel, 1770MHz									
3.522	54.97	Pk	32.6	-95.2	-44.83	-52.46	-13	-39.46	H
3.522	56.35	Pk	32.6	-95.2	-44.85	-51.1	-13	-38.1	V
5.281	53.08	Pk	34.5	-95.2	-45.26	-52.88	-13	-39.88	H
5.281	51.54	Pk	34.5	-95.2	-45.26	-54.42	-13	-41.42	V
7.041	51.07	Pk	35.4	-95.2	-43.51	-52.24	-13	-39.24	H
7.041	53.1	Pk	35.4	-95.2	-43.51	-50.21	-13	-37.21	V

LTE BAND 66 (QPSK 20.0MHZ BANDWIDTH, Sub ANT 1)

Project:	15605535
Date:	2025-01-31
Test Engineer:	25019 VK
Configuration:	EUT + Support Equipment
Mode:	LTE 66 QPSK 20MHz
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	79834 ACF (dB) - 3mH	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
5.1335	59.04	Pk	34.3	-95.2	-46.07	-47.93	-13	-34.93	H
5.1335	53.81	Pk	34.3	-95.2	-46.07	-53.16	-13	-40.16	V
3.4205	52.88	Pk	32.6	-95.2	-45.19	-54.91	-13	-41.91	H
3.4205	51.88	Pk	32.6	-95.2	-45.19	-55.91	-13	-42.91	V
6.844722	72.95	Pk	35.6	-95.2	-44.21	-30.86	-13	-17.86	H
6.844722	51.51	Av	35.6	-95.2	-44.21	-52.3	-13	-39.3	H
6.845	53.91	Pk	35.6	-95.2	-44.2	-49.89	-13	-36.89	V
8.5555	65.71	Pk	36	-95.2	-42.23	-35.72	-13	-22.72	V
8.55608	68.7	Pk	36	-95.2	-42.23	-32.73	-13	-19.73	H
Mid Channel, 1745MHz									
3.471	51.23	Pk	32.6	-95.2	-45.14	-56.51	-13	-43.51	H
3.471	53.27	Pk	32.6	-95.2	-45.14	-54.47	-13	-41.47	V
5.2055	51.69	Pk	34.5	-95.2	-45.88	-54.89	-13	-41.89	H
5.2055	52.42	Pk	34.5	-95.2	-45.88	-54.16	-13	-41.16	V
6.944738	71.49	Pk	35.5	-95.2	-43.53	-31.74	-13	-18.74	H
6.944738	52.3	Av	35.5	-95.2	-43.53	-50.93	-13	-37.93	H
6.945	52.11	Pk	35.5	-95.2	-43.5	-51.09	-13	-38.09	V
High Channel, 1770MHz									
3.5205	51.12	Pk	32.6	-95.2	-44.8	-56.28	-13	-43.28	H
3.5205	51.91	Pk	32.6	-95.2	-44.8	-55.49	-13	-42.49	V
5.280	52.21	Pk	34.5	-95.2	-45.15	-53.64	-13	-40.64	H
5.280	53.03	Pk	34.5	-95.2	-45.15	-52.82	-13	-39.82	V
7.044673	64.15	Pk	35.4	-95.2	-43.56	-39.21	-13	-26.21	H
7.044673	51.67	Av	35.4	-95.2	-43.56	-51.69	-13	-38.69	H
.70445	52.52	Pk	35.4	-95.2	-43.55	-50.83	-13	-37.83	V

10.2.3. 5G NR n66

5G NR n66 (BPSK 40.0MHZ BANDWIDTH, Main ANT 1)

Project:	15605535
Date:	2025-01-27
Test Engineer:	25019 VK
Configuration:	EUT + Support Equipment
Mode:	n66 BPSK 40MHz
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	79834 ACF (dB) - 3mH	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1730MHz									
3.420	51.94	Pk	32.6	-95.2	-45.16	-55.82	-13	-42.82	H
3.420	51.59	Pk	32.6	-95.2	-45.16	-56.17	-13	-43.17	V
5.1305	51.84	Pk	34.3	-95.2	-46.07	-55.13	-13	-42.13	H
5.1305	52.73	Pk	34.3	-95.2	-46.07	-54.24	-13	-41.24	V
6.840	51.27	Pk	35.6	-95.2	-44.28	-52.61	-13	-39.61	H
6.840	51.74	Pk	35.6	-95.2	-44.28	-52.14	-13	-39.14	V
Mid Channel, 1745MHz									
3.451	51.97	Pk	32.6	-95.2	-45.11	-55.74	-13	-42.74	H
3.451	52.75	Pk	32.6	-95.2	-45.11	-54.96	-13	-41.96	V
5.175	52.9	Pk	34.4	-95.2	-45.86	-53.76	-13	-40.76	H
5.175	53.72	Pk	34.4	-95.2	-45.86	-52.94	-13	-39.94	V
6.901	51.46	Pk	35.6	-95.2	-44.09	-52.23	-13	-39.23	H
6.901	51.22	Pk	35.6	-95.2	-44.09	-52.47	-13	-39.47	V
High Channel, 1760MHz									
3.480	53.88	Pk	32.6	-95.2	-45.17	-53.89	-13	-40.89	H
3.480	51.49	Pk	32.6	-95.2	-45.17	-56.28	-13	-43.28	V
5.226	52.74	Pk	34.5	-95.2	-45.64	-53.6	-13	-40.6	H
5.226	52.93	Pk	34.5	-95.2	-45.64	-53.41	-13	-40.41	V
6.961	53.18	Pk	35.5	-95.2	-43.61	-50.13	-13	-37.13	H
6.961	51.04	Pk	35.5	-95.2	-43.61	-52.27	-13	-39.27	V

11. SETUP PHOTOS

Please refer to 15605535-EP1V1 for setup photos.

END OF REPORT