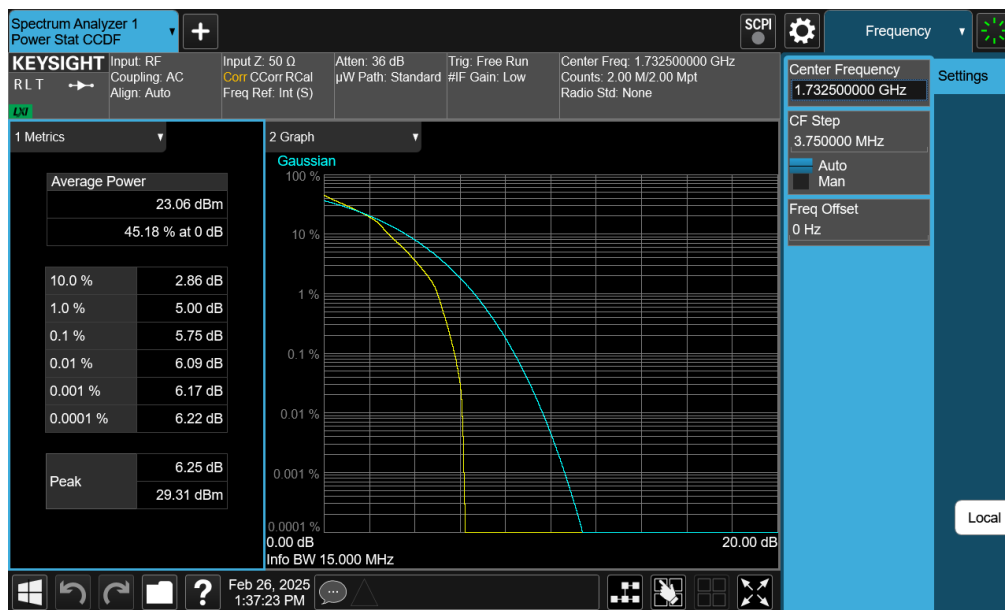




Plot 7-262. PAR Plot (LTE Band 4 - 15MHz QPSK - Full RB)

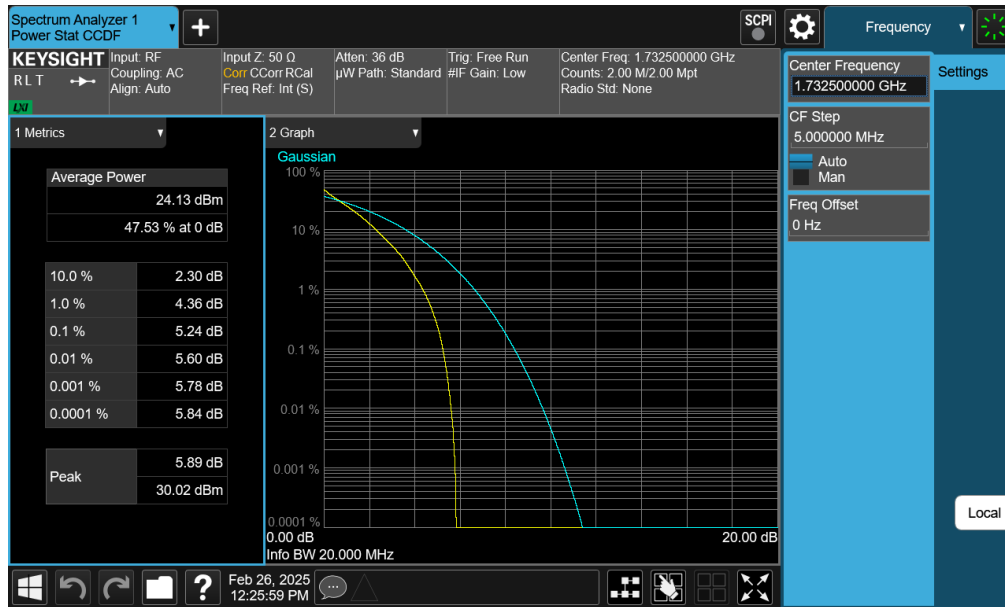


Plot 7-263. PAR Plot (LTE Band 4 - 15MHz 16-QAM - Full RB)

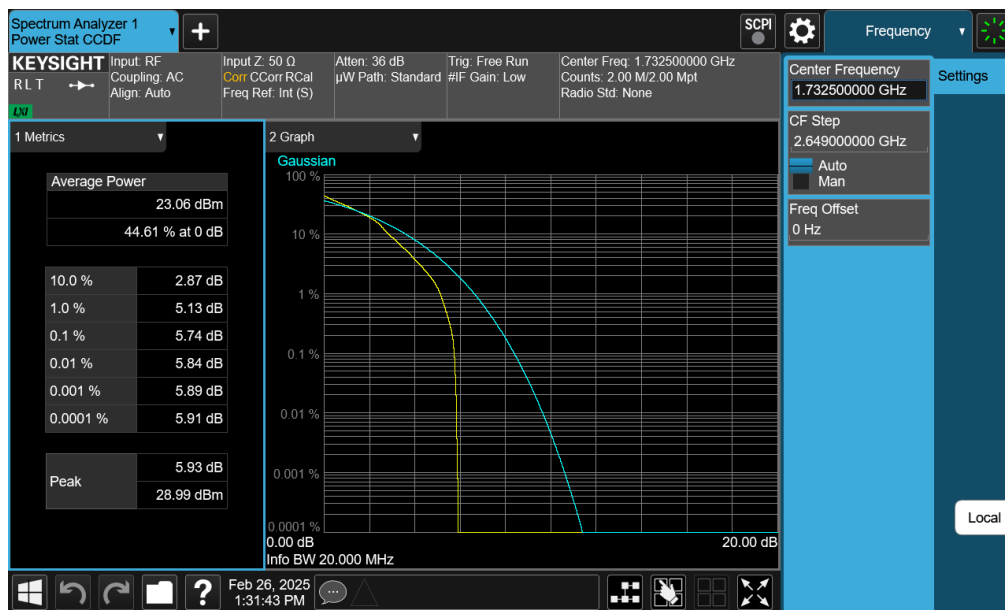
FCC ID: BCG-A3337	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-264. PAR Plot (LTE Band 4 - 20MHz QPSK - Full RB)

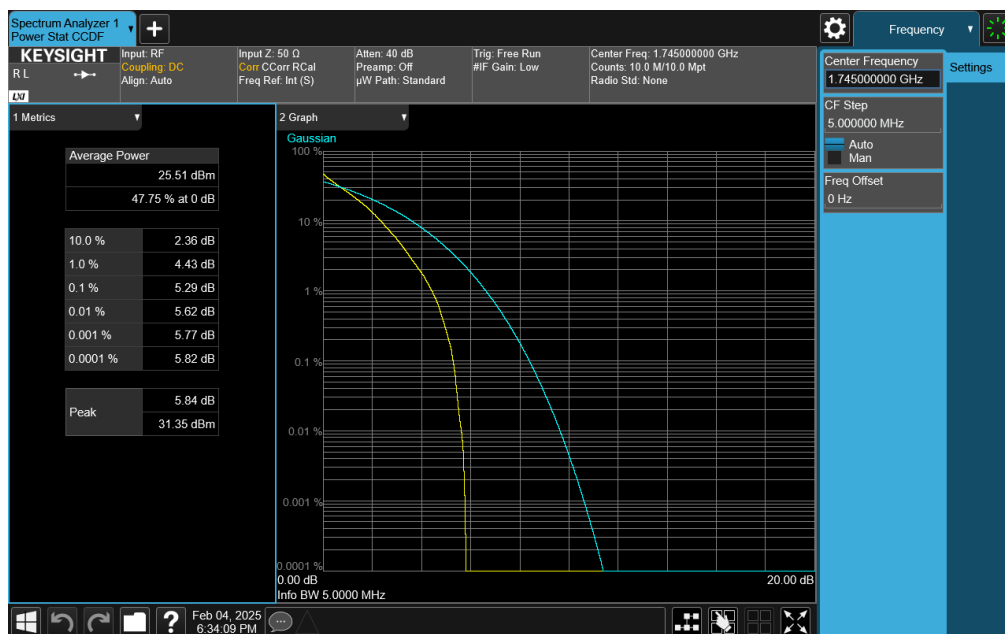
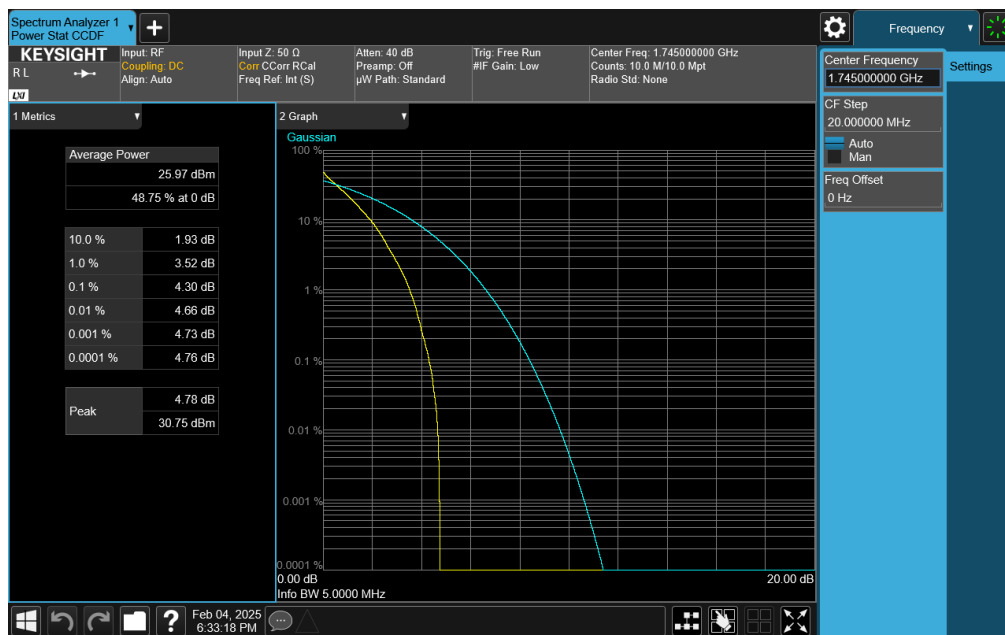



Plot 7-265. PAR Plot (LTE Band 4 - 20MHz 16-QAM - Full RB)

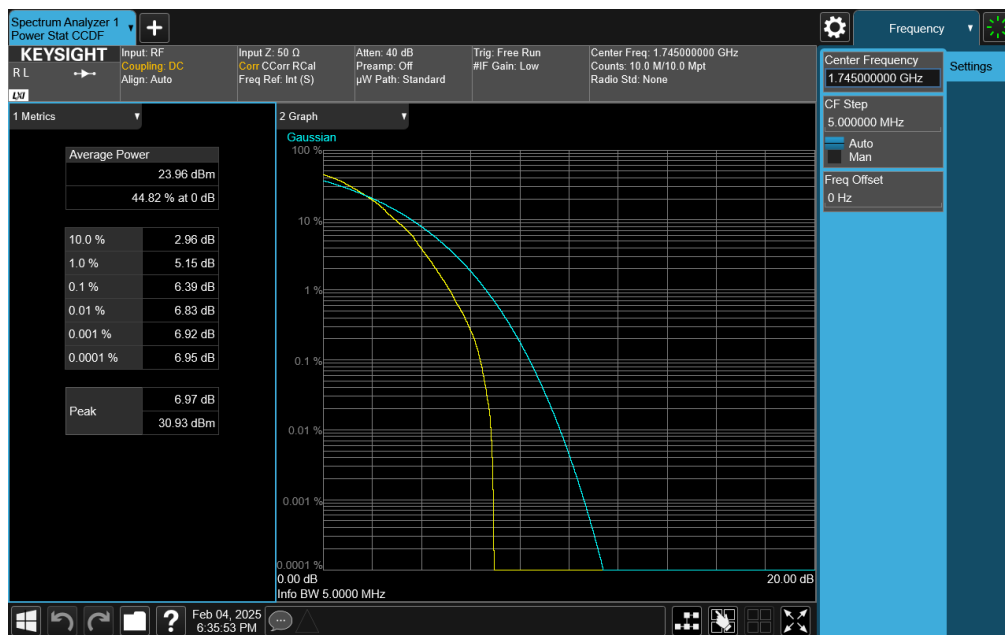
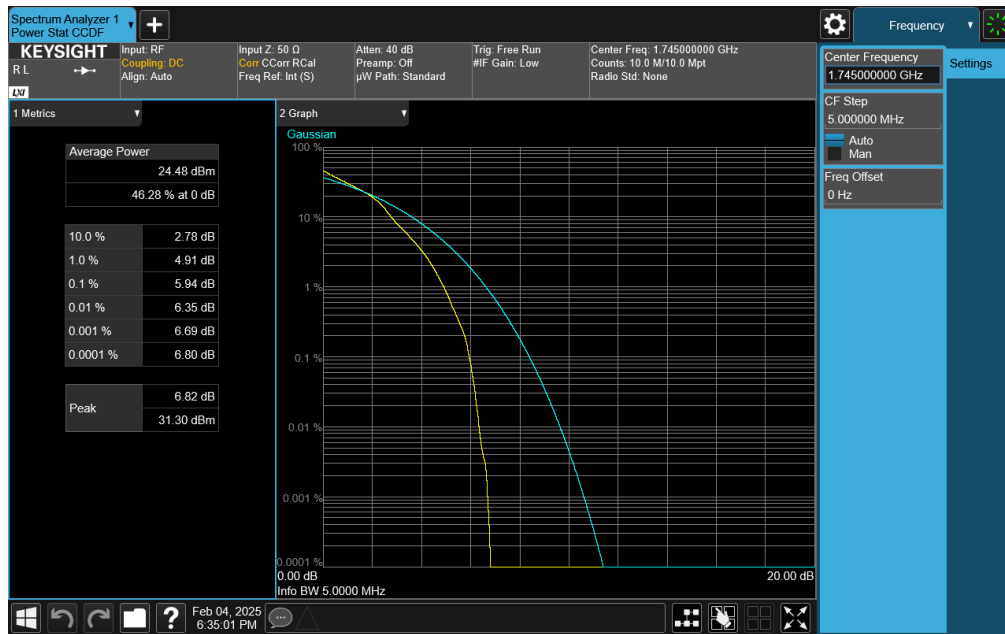
FCC ID: BCG-A3337	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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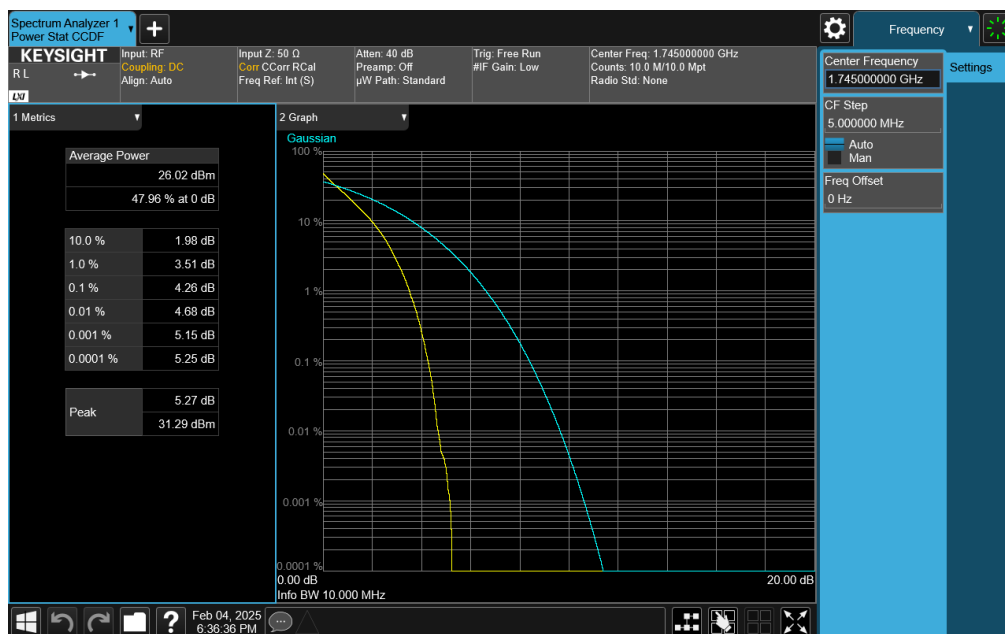
FCC ID: BCG-A3337	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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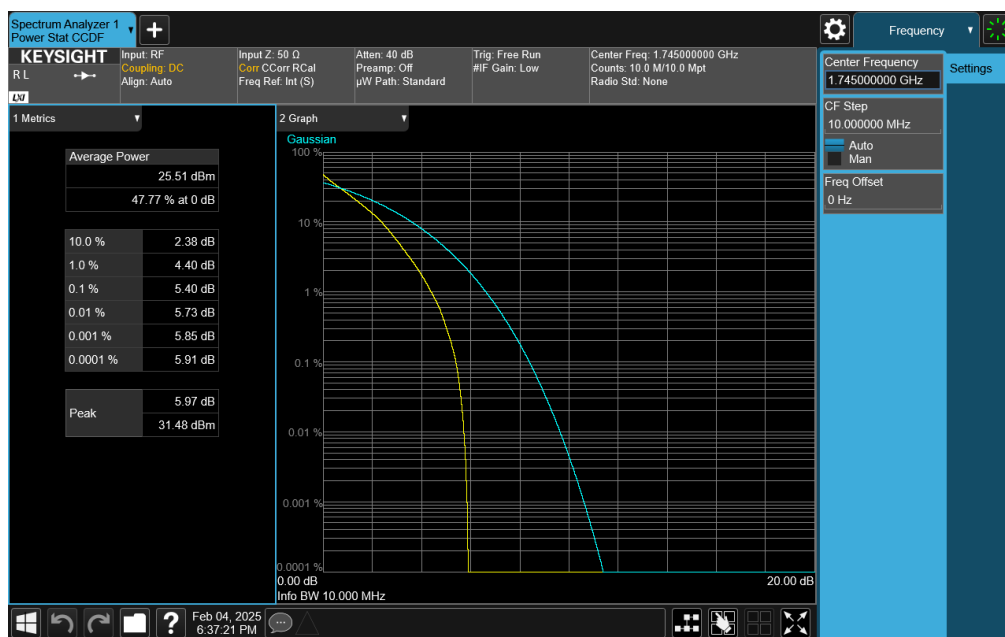
FCC ID: BCG-A3337	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-270. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

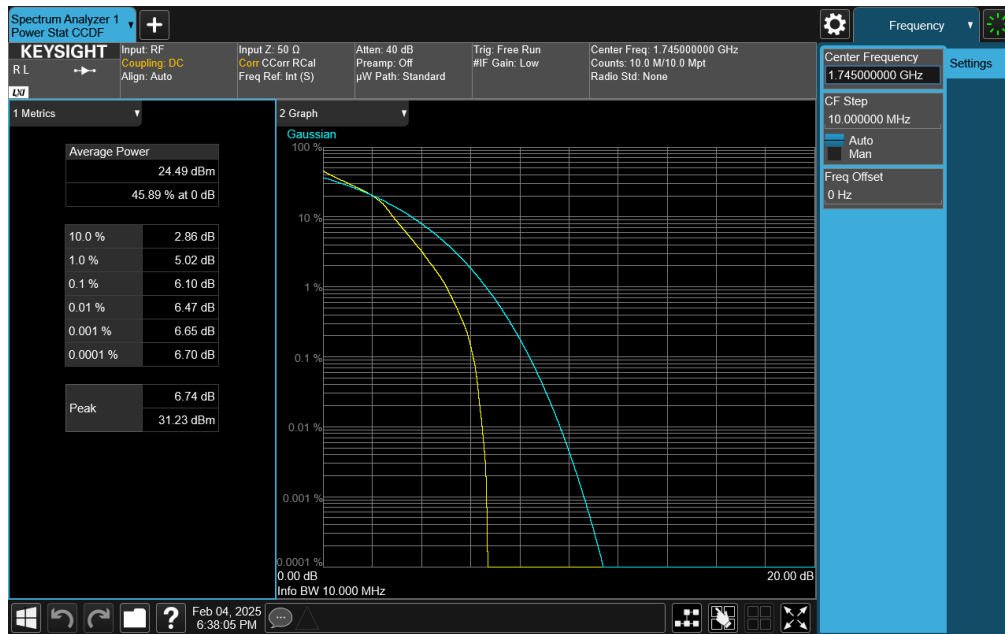


Plot 7-271. PAR Plot (NR Band n66 - 10.0MHz DFT-S-OFDM QPSK - Full RB)

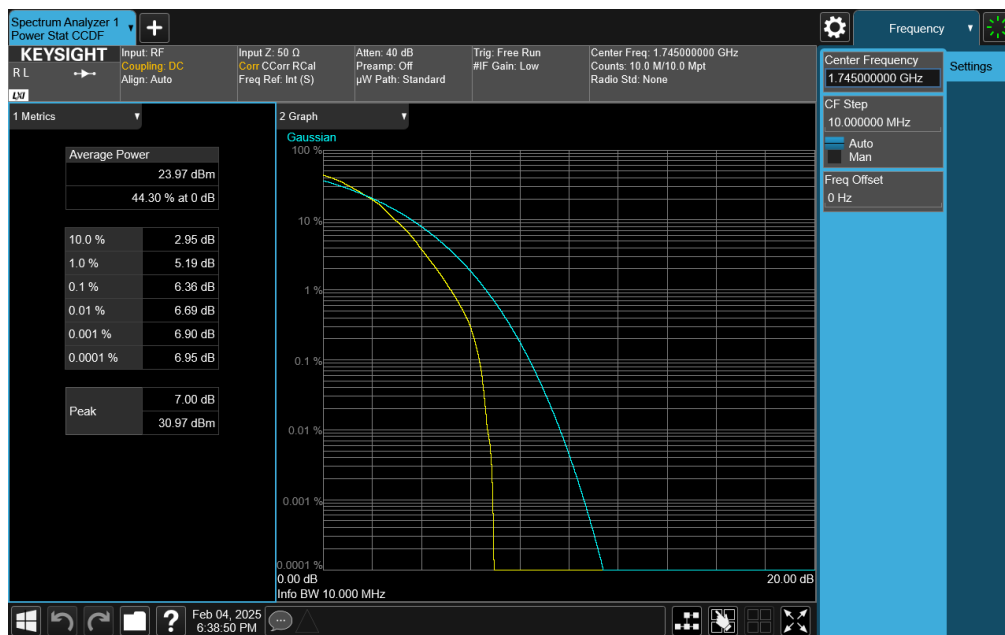
FCC ID: BCG-A3337	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-03.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 161 of 202

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Plot 7-272. PAR Plot (NR Band n66 - 10.0MHz DFT-S-OFDM 16-QAM - Full RB)

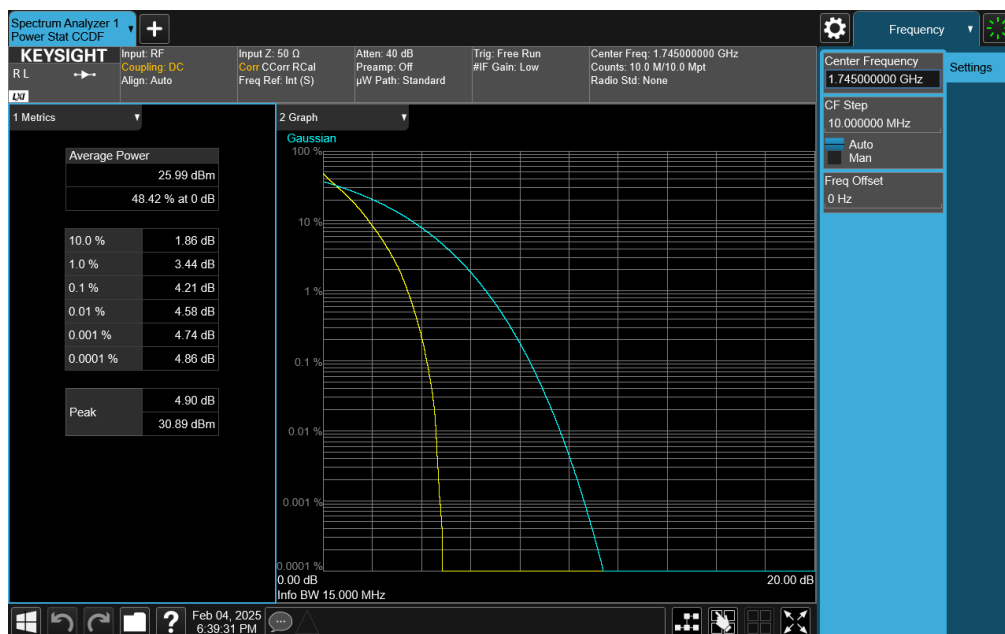


Plot 7-273. PAR Plot (NR Band n66 - 10.0MHz DFT-S-OFDM 64-QAM - Full RB)

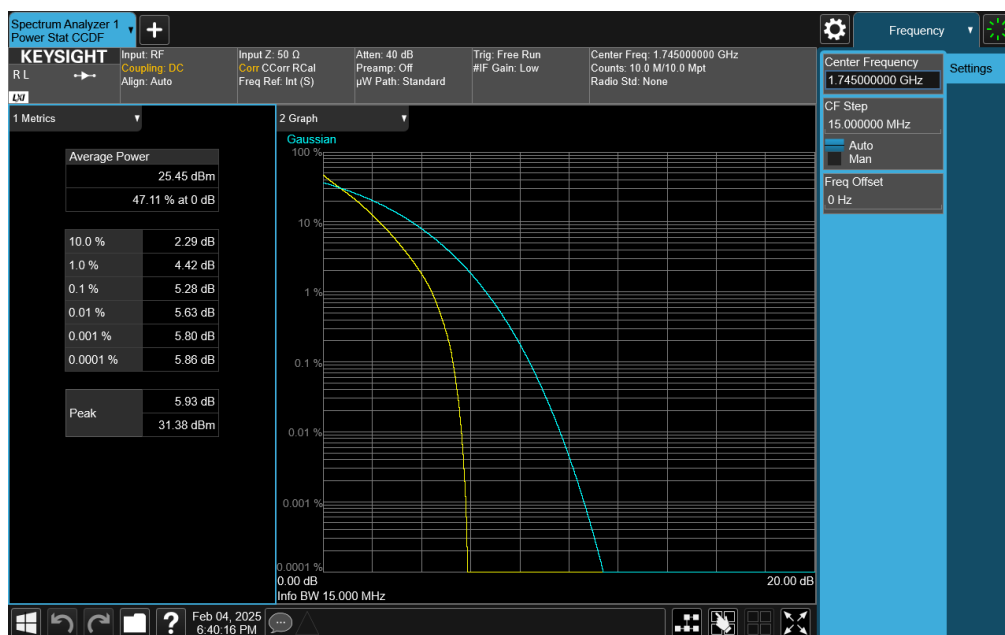
FCC ID: BCG-A3337	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-274. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

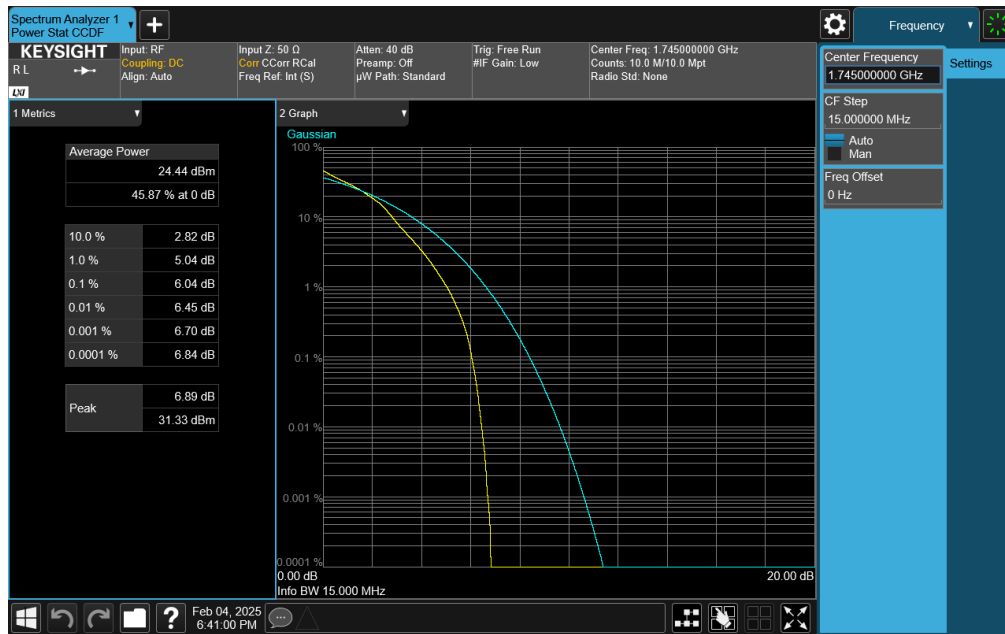


Plot 7-275. PAR Plot (NR Band n66 - 15.0MHz DFT-S-OFDM QPSK - Full RB)

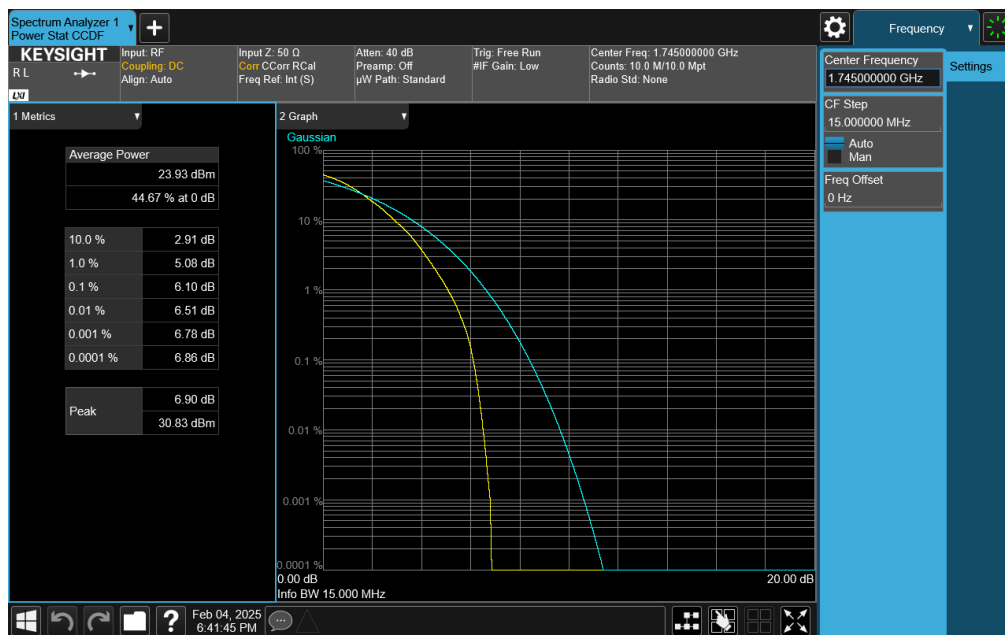
FCC ID: BCG-A3337	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-276. PAR Plot (NR Band n66 - 15.0MHz DFT-S-OFDM 16-QAM - Full RB)

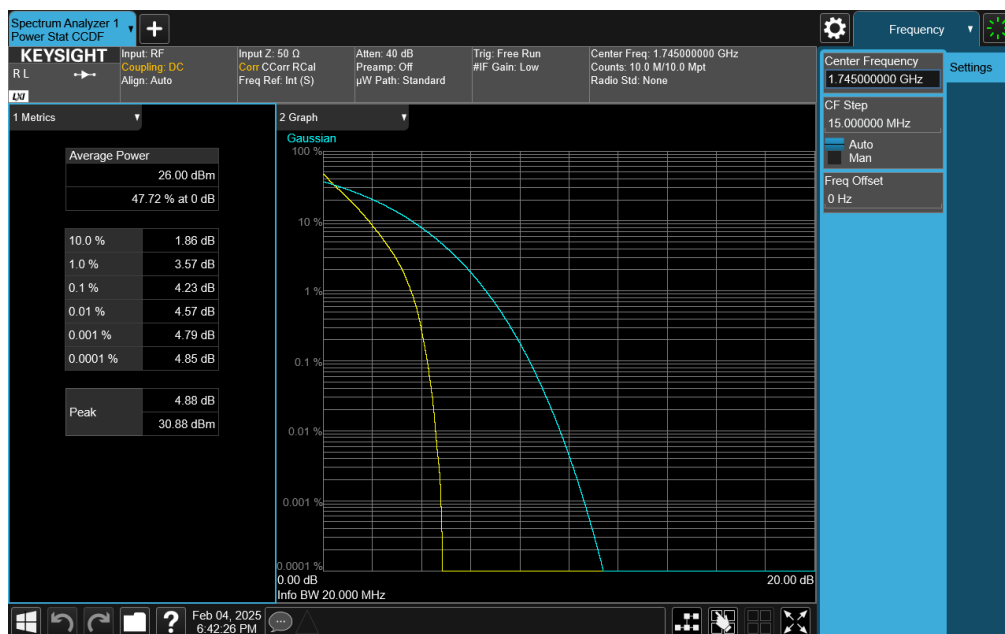


Plot 7-277. PAR Plot (NR Band n66 - 15.0MHz DFT-S-OFDM 64-QAM - Full RB)

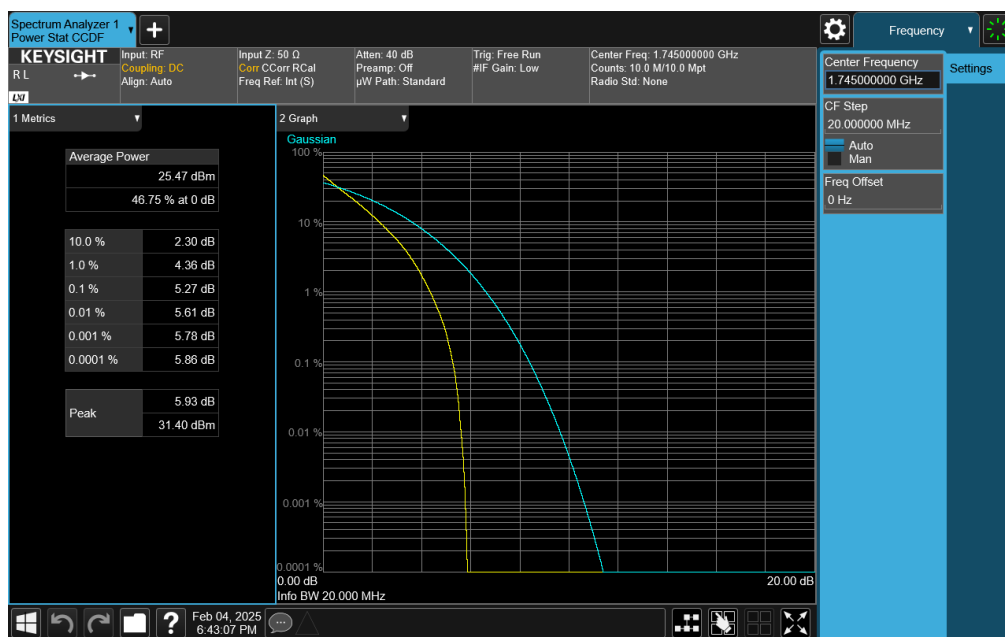
FCC ID: BCG-A3337	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-278. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

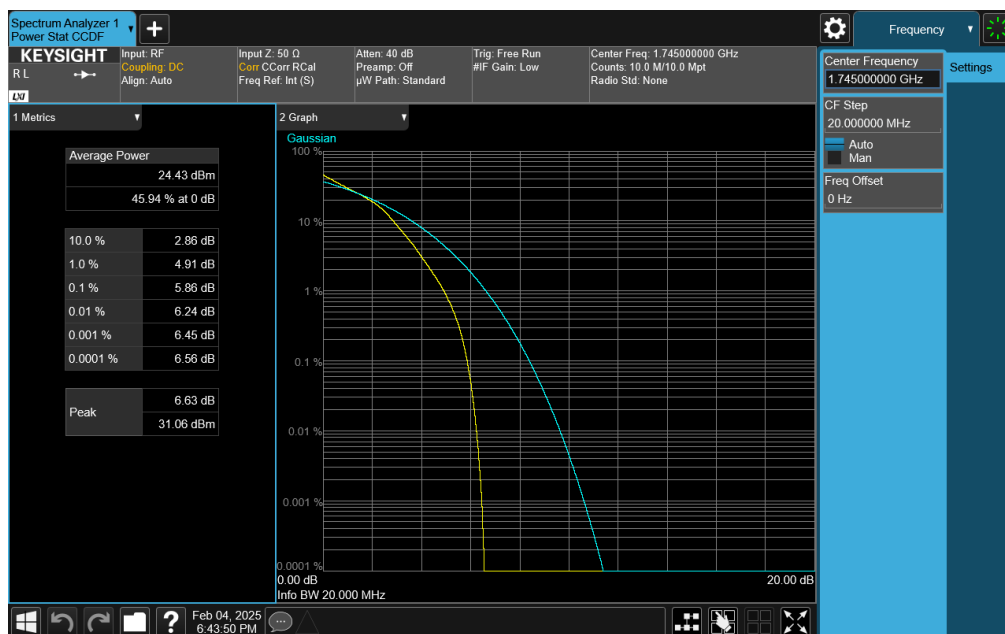


Plot 7-279. PAR Plot (NR Band n66 - 20.0MHz DFT-S-OFDM QPSK - Full RB)

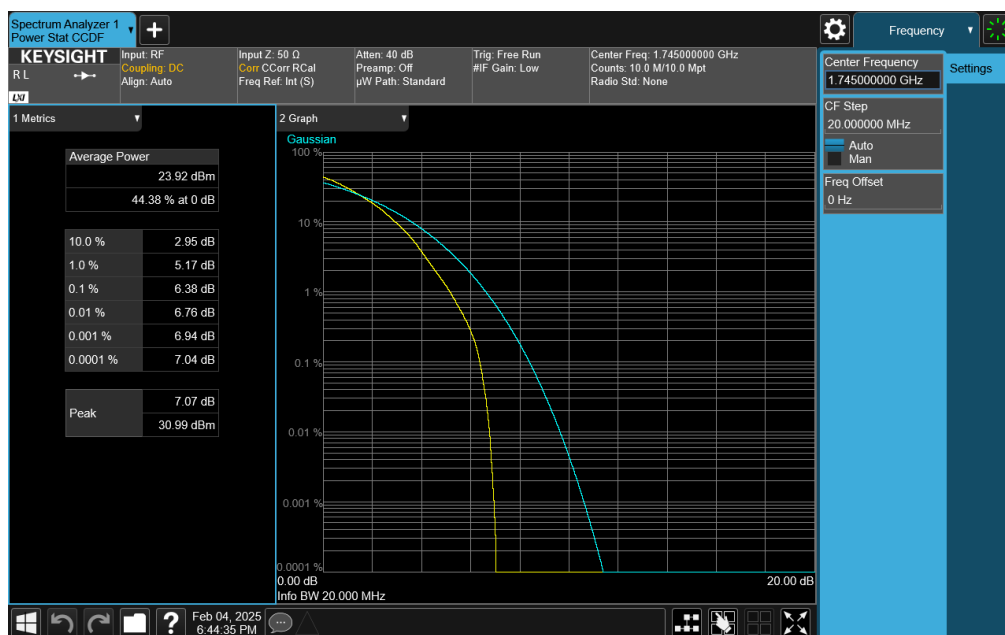
FCC ID: BCG-A3337	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-280. PAR Plot (NR Band n66 - 20.0MHz DFT-S-OFDM 16-QAM - Full RB)



Plot 7-281. PAR Plot (NR Band n66 - 20.0MHz DFT-S-OFDM 64-QAM - Full RB)

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7.6 Radiated Power (ERP/EIRP)

§27.50(b)(10), §27.50(c)(10), §27.50(d)(4)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

$$\text{ERP/EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

ERP/EIRP = Effective or Equivalent Isotropic Radiated Power, respectively (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

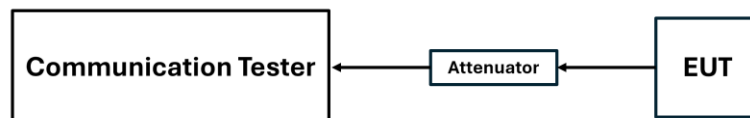


Figure 7-9. LTE ERP/EIRP Measurement Setup

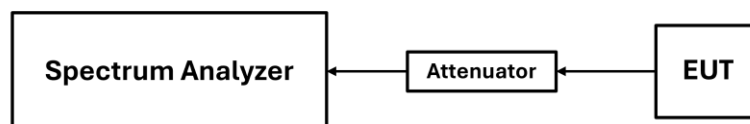




Figure 7-10. FR1 ERP/EIRP Measurement Setup

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Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. The Ant. Gains (GT) are listed in dBi.
5. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.

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7.6.1 Antenna FCM – EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-10.50	1 / 0	24.97	14.47	27.990	30.00	-15.53
		1745.0	-10.50	1 / 5	24.97	14.47	27.990	30.00	-15.53
		1779.3	-10.50	1 / 0	25.16	14.66	29.242	30.00	-15.34
	16-QAM	1745.0	-10.50	1 / 5	24.40	13.90	24.547	30.00	-16.10
3 MHz	QPSK	1711.5	-10.50	1 / 7	24.97	14.47	27.990	30.00	-15.53
		1745.0	-10.50	1 / 7	24.95	14.45	27.861	30.00	-15.55
		1778.5	-10.50	1 / 7	24.91	14.41	27.606	30.00	-15.59
	16-QAM	1745.0	-10.50	1 / 14	24.41	13.91	24.604	30.00	-16.09
5 MHz	QPSK	1712.5	-10.50	1 / 24	25.06	14.56	28.576	30.00	-15.44
		1745.0	-10.50	1 / 24	25.05	14.55	28.510	30.00	-15.45
		1777.5	-10.50	1 / 24	24.85	14.35	27.227	30.00	-15.65
	16-QAM	1745.0	-10.50	1 / 24	24.63	14.13	25.882	30.00	-15.87
10 MHz	QPSK	1715.0	-10.50	1 / 49	24.98	14.48	28.054	30.00	-15.52
		1745.0	-10.50	1 / 49	24.98	14.48	28.054	30.00	-15.52
		1775.0	-10.50	1 / 49	24.88	14.38	27.416	30.00	-15.62
	16-QAM	1745.0	-10.50	1 / 0	24.38	13.88	24.434	30.00	-16.12
15 MHz	QPSK	1717.5	-10.50	1 / 37	25.20	14.70	29.512	30.00	-15.30
		1745.0	-10.50	1 / 37	25.07	14.57	28.642	30.00	-15.43
		1772.5	-10.50	1 / 37	24.87	14.37	27.353	30.00	-15.63
	16-QAM	1745.0	-10.50	1 / 37	24.39	13.89	24.491	30.00	-16.11
20 MHz	QPSK	1720.0	-10.50	1 / 50	25.13	14.63	29.040	30.00	-15.37
		1745.0	-10.50	1 / 50	24.87	14.37	27.353	30.00	-15.63
		1770.0	-10.50	1 / 99	25.02	14.52	28.314	30.00	-15.48
	16-QAM	1770.0	-10.50	1 / 99	24.55	14.05	25.410	30.00	-15.95

Table 7-2. Antenna FCM EIRP Data LTE Band 66


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LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-10.50	1 / 0	25.07	14.57	28.642	30.00	-15.43
		1732.5	-10.50	1 / 0	25.20	14.70	29.512	30.00	-15.30
		1754.3	-10.50	1 / 5	24.97	14.47	27.990	30.00	-15.53
	16-QAM	1710.7	-10.50	1 / 0	24.49	13.99	25.061	30.00	-16.01
3 MHz	QPSK	1711.5	-10.50	1 / 0	25.01	14.51	28.249	30.00	-15.49
		1732.5	-10.50	1 / 0	25.05	14.55	28.510	30.00	-15.45
		1753.5	-10.50	1 / 0	24.91	14.41	27.606	30.00	-15.59
	16-QAM	1732.5	-10.50	1 / 14	24.42	13.92	24.660	30.00	-16.08
5 MHz	QPSK	1712.5	-10.50	1 / 24	25.09	14.59	28.774	30.00	-15.41
		1732.5	-10.50	1 / 0	25.10	14.60	28.840	30.00	-15.40
		1752.5	-10.50	1 / 0	24.85	14.35	27.227	30.00	-15.65
	16-QAM	1732.5	-10.50	1 / 12	24.63	14.13	25.882	30.00	-15.87
10 MHz	QPSK	1715.0	-10.50	1 / 49	24.96	14.46	27.925	30.00	-15.54
		1732.5	-10.50	1 / 25	25.00	14.50	28.184	30.00	-15.50
		1750.0	-10.50	1 / 0	24.91	14.41	27.606	30.00	-15.59
	16-QAM	1732.5	-10.50	1 / 49	24.35	13.85	24.266	30.00	-16.15
15 MHz	QPSK	1717.5	-10.50	1 / 37	25.20	14.70	29.512	30.00	-15.30
		1732.5	-10.50	1 / 37	25.12	14.62	28.973	30.00	-15.38
		1747.5	-10.50	1 / 37	24.98	14.48	28.054	30.00	-15.52
	16-QAM	1732.5	-10.50	1 / 37	24.44	13.94	24.774	30.00	-16.06
20 MHz	QPSK	1720.0	-10.50	1 / 50	25.15	14.65	29.174	30.00	-15.35
		1732.5	-10.50	1 / 50	24.93	14.43	27.733	30.00	-15.57
		1745.0	-10.50	1 / 50	25.17	14.67	29.309	30.00	-15.33
	16-QAM	1745.0	-10.50	1 / 50	24.66	14.16	26.062	30.00	-15.84

Table 7-3. Antenna FCM EIRP Data LTE Band 4

FCC ID: BCG-A3337	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1712.5	-10.50	1 / 24	24.93	14.43	27.739	30.00	-15.57
		1745.0	-10.50	1 / 0	24.92	14.42	27.700	30.00	-15.58
		1777.5	-10.50	1 / 0	24.83	14.33	27.088	30.00	-15.67
	QPSK	1712.5	-10.50	1 / 24	24.95	14.45	27.886	30.00	-15.55
		1745.0	-10.50	1 / 0	24.98	14.48	28.036	30.00	-15.52
		1777.5	-10.50	1 / 0	24.91	14.41	27.613	30.00	-15.59
	16-QAM	1745.0	-10.50	1 / 0	23.74	13.24	21.072	30.00	-16.76
	64-QAM	1745.0	-10.50	1 / 12	22.54	12.04	15.996	30.00	-17.96
10 MHz	$\pi/2$ BPSK	1715.0	-10.50	1 / 49	24.94	14.44	27.787	30.00	-15.56
		1745.0	-10.50	1 / 0	24.96	14.46	27.895	30.00	-15.54
		1775.0	-10.50	1 / 25	24.83	14.33	27.114	30.00	-15.67
	QPSK	1715.0	-10.50	1 / 49	24.98	14.48	28.059	30.00	-15.52
		1745.0	-10.50	1 / 0	25.01	14.51	28.237	30.00	-15.49
		1775.0	-10.50	1 / 25	24.87	14.37	27.326	30.00	-15.63
	16-QAM	1715.0	-10.50	1 / 49	23.78	13.28	21.289	30.00	-16.72
	64-QAM	1715.0	-10.50	1 / 25	22.51	12.01	15.885	30.00	-17.99
15 MHz	$\pi/2$ BPSK	1717.5	-10.50	1 / 37	24.96	14.46	27.951	30.00	-15.54
		1745.0	-10.50	1 / 37	24.99	14.49	28.088	30.00	-15.51
		1772.5	-10.50	1 / 37	24.87	14.37	27.367	30.00	-15.63
	QPSK	1717.5	-10.50	1 / 74	24.95	14.45	27.846	30.00	-15.55
		1745.0	-10.50	1 / 0	24.98	14.48	28.086	30.00	-15.52
		1772.5	-10.50	1 / 37	24.84	14.34	27.174	30.00	-15.66
	16-QAM	1745.0	-10.50	1 / 0	23.75	13.25	21.133	30.00	-16.75
	64-QAM	1717.5	-10.50	1 / 0	22.53	12.03	15.959	30.00	-17.97
20 MHz	$\pi/2$ BPSK	1720.0	-10.50	1 / 99	24.94	14.44	27.776	30.00	-15.56
		1745.0	-10.50	1 / 0	24.95	14.45	27.884	30.00	-15.55
		1770.0	-10.50	1 / 0	24.82	14.32	27.051	30.00	-15.68
	QPSK	1720.0	-10.50	1 / 99	24.95	14.45	27.863	30.00	-15.55
		1745.0	-10.50	1 / 0	24.96	14.46	27.957	30.00	-15.54
		1770.0	-10.50	1 / 0	24.84	14.34	27.188	30.00	-15.66
	16-QAM	1720.0	-10.50	1 / 50	23.74	13.24	21.097	30.00	-16.76
	64-QAM	1720.0	-10.50	1 / 50	22.54	12.04	15.996	30.00	-17.96

Table 7-4. Antenna FCM EIRP Data NR Band n66

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7.6.2 Antenna BCM – ERP

LTE Band 71


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
5 MHz	QPSK	665.5	-27.50	1 / 24	25.47	-4.18	0.382	34.77	-38.95
		680.5	-27.50	1 / 12	25.68	-3.97	0.401	34.77	-38.74
		695.5	-27.50	1 / 24	25.67	-3.98	0.400	34.77	-38.75
	16-QAM	680.5	-27.50	1 / 24	24.64	-5.01	0.316	34.77	-39.78
10 MHz	QPSK	668.0	-27.50	1 / 0	25.46	-4.19	0.381	34.77	-38.96
		680.5	-27.50	1 / 0	25.70	-3.95	0.403	34.77	-38.72
		693.0	-27.50	1 / 0	25.69	-3.96	0.402	34.77	-38.73
	16-QAM	693.0	-27.50	1 / 25	24.68	-4.97	0.318	34.77	-39.74
15 MHz	QPSK	670.5	-27.50	1 / 0	25.60	-4.05	0.394	34.77	-38.82
		680.5	-27.50	1 / 37	25.57	-4.08	0.391	34.77	-38.85
		690.5	-27.50	1 / 0	25.56	-4.09	0.390	34.77	-38.86
	16-QAM	690.5	-27.50	1 / 74	24.67	-4.98	0.318	34.77	-39.75
20 MHz	QPSK	673.0	-27.50	1 / 99	25.69	-3.96	0.402	34.77	-38.73
		680.5	-27.50	1 / 0	25.62	-4.03	0.395	34.77	-38.80
		688.0	-27.50	1 / 0	25.63	-4.02	0.396	34.77	-38.79
	16-QAM	688.0	-27.50	1 / 50	24.67	-4.98	0.318	34.77	-39.75

Table 7-5. Antenna BCM ERP Data LTE Band 71

LTE Band 12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	699.7	-27.30	1 / 5	25.59	-3.86	0.411	34.77	-38.63
		707.5	-27.30	1 / 0	25.67	-3.78	0.419	34.77	-38.55
		715.3	-27.30	1 / 5	25.70	-3.75	0.422	34.77	-38.52
	16-QAM	707.5	-27.30	1 / 3	24.59	-4.86	0.327	34.77	-39.63
3 MHz	QPSK	700.5	-27.30	1 / 7	25.45	-4.00	0.398	34.77	-38.77
		707.5	-27.30	1 / 14	25.61	-3.84	0.413	34.77	-38.61
		714.5	-27.30	1 / 7	25.52	-3.93	0.405	34.77	-38.70
	16-QAM	707.5	-27.30	1 / 14	24.67	-4.78	0.333	34.77	-39.55
5 MHz	QPSK	701.5	-27.30	1 / 12	25.60	-3.85	0.412	34.77	-38.62
		707.5	-27.30	1 / 24	25.46	-3.99	0.399	34.77	-38.76
		713.5	-27.30	1 / 12	25.70	-3.75	0.422	34.77	-38.52
	16-QAM	701.5	-27.30	1 / 0	24.60	-4.85	0.327	34.77	-39.62
10 MHz	QPSK	704.0	-27.30	1 / 0	25.67	-3.78	0.419	34.77	-38.55
		707.5	-27.30	1 / 0	25.40	-4.05	0.394	34.77	-38.82
		711.0	-27.30	1 / 25	25.60	-3.85	0.412	34.77	-38.62
	16-QAM	704.0	-27.30	1 / 25	24.73	-4.72	0.337	34.77	-39.49

Table 7-6. Antenna BCM ERP Data LTE Band 12

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LTE Band 17


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
5 MHz	QPSK	706.5	-27.30	1 / 0	25.21	-4.24	0.377	34.77	-39.01
		710.0	-27.30	1 / 12	25.26	-4.19	0.381	34.77	-38.96
		713.5	-27.30	1 / 12	25.35	-4.10	0.389	34.77	-38.87
10 MHz	16-QAM	710.0	-27.30	1 / 12	24.65	-4.80	0.331	34.77	-39.57
		709.0	-27.30	1 / 0	25.15	-4.30	0.372	34.77	-39.07
	QPSK	710.0	-27.30	1 / 49	25.16	-4.29	0.372	34.77	-39.06
		711.0	-27.30	1 / 0	25.11	-4.34	0.368	34.77	-39.11
	16-QAM	710.0	-27.30	1 / 49	24.77	-4.68	0.340	34.77	-39.45

Table 7-7. Antenna BCM ERP Data LTE Band 17

LTE Band 13

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
5 MHz	QPSK	779.5	-27.20	1 / 0	25.25	-4.10	0.389	34.77	-38.87
		782.0	-27.20	1 / 24	25.45	-3.90	0.407	34.77	-38.67
		784.5	-27.20	1 / 12	25.37	-3.98	0.400	34.77	-38.75
10 MHz	16-QAM	784.5	-27.20	1 / 24	24.73	-4.62	0.345	34.77	-39.39
	QPSK	782.0	-27.20	1 / 25	25.36	-3.99	0.399	34.77	-38.76
	16-QAM	782.0	-27.20	1 / 49	24.69	-4.66	0.342	34.77	-39.43

Table 7-8. Antenna BCM ERP Data LTE Band 13

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Table 7-9. Antenna BCM EIRP Data NR Band n71

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Table 7-10. Antenna BCM ERP Data NR Band n12

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7.7 Radiated Spurious Emissions

\$2.1053, \$27.53(f)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.


Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI C63.26 2015, TIA-603-E-2016 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

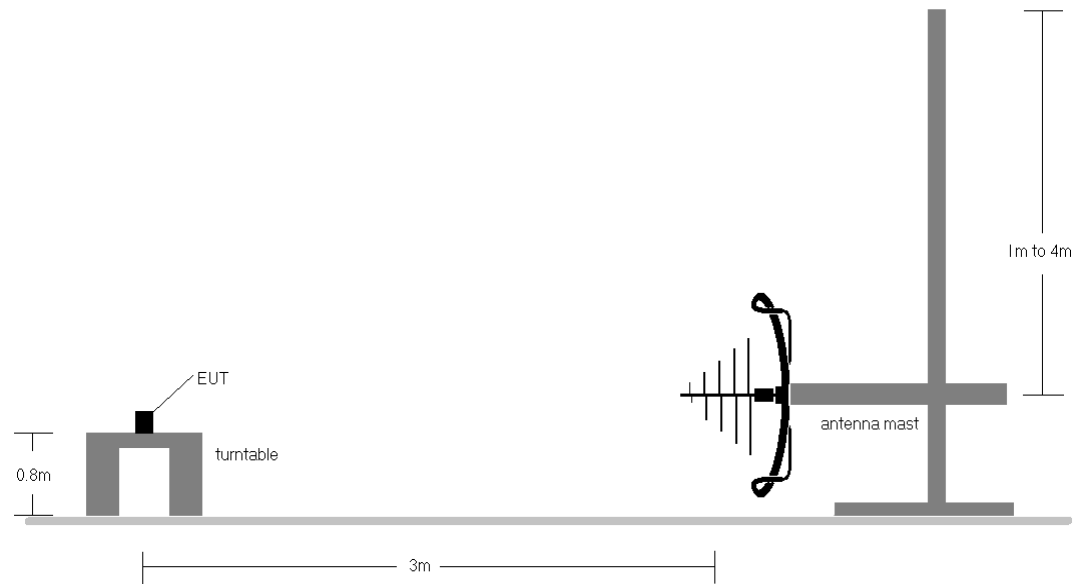


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

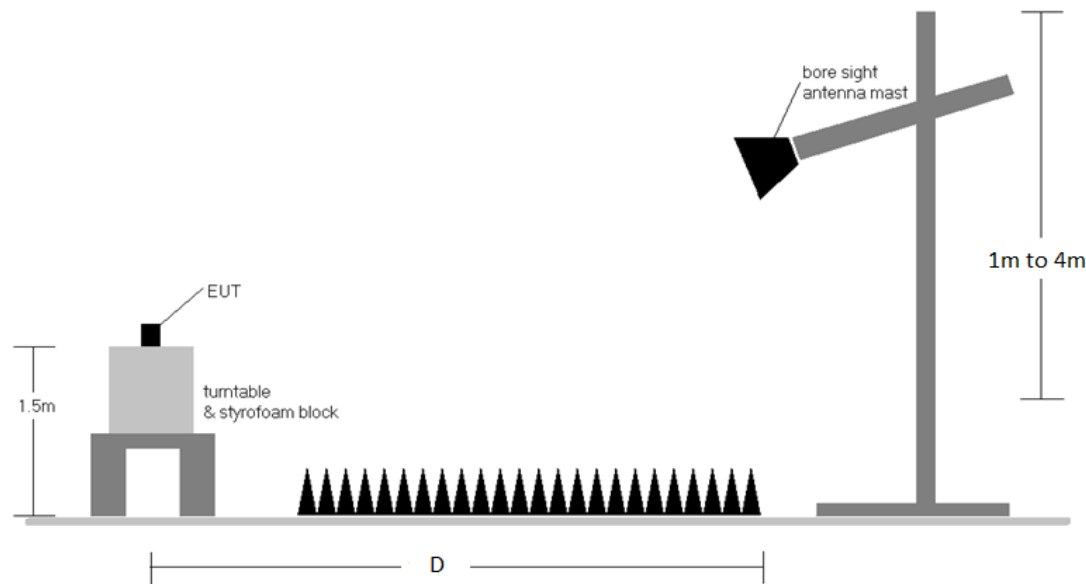




Figure 7-12. Test Instrument & Measurement Setup > 1GHz

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Test Notes

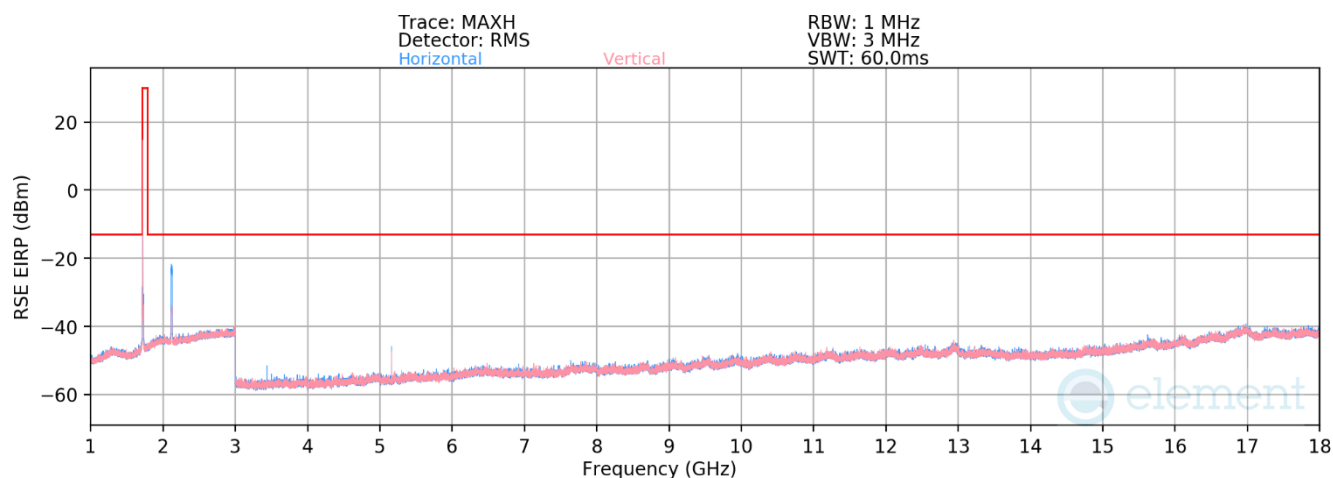
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
7. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.

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7.7.1 Antenna FCM – Radiated Spurious Emission Measurement

LTE Band 66/4



Plot 7-282. Antenna FCM Radiated Spurious Emission above 1GHz (LTE Band 66/4)

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Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-79.09	5.29	33.20	-62.06	-13.00	-49.06
5160.0	V	271	171	-70.95	8.23	44.28	-50.98	-13.00	-37.98
6880.0	V	-	-	-82.11	11.20	36.10	-59.16	-13.00	-46.16
8600.0	V	-	-	-81.36	11.53	37.17	-58.08	-13.00	-45.08
10320.0	V	-	-	-81.83	14.66	39.83	-55.43	-13.00	-42.43

Table 7-11. Antenna FCM Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	H	100	188	-74.61	5.21	37.60	-57.66	-13.00	-44.66
5235.0	H	112	127	-71.66	8.59	43.93	-51.33	-13.00	-38.33
6980.0	V	-	-	-82.70	11.54	35.85	-59.41	-13.00	-46.41
8725.0	V	-	-	-81.50	11.89	37.40	-57.86	-13.00	-44.86
10470.0	V	-	-	-82.36	14.93	39.57	-55.69	-13.00	-42.69

Table 7-12. Antenna FCM Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / Offset:	1 / 50

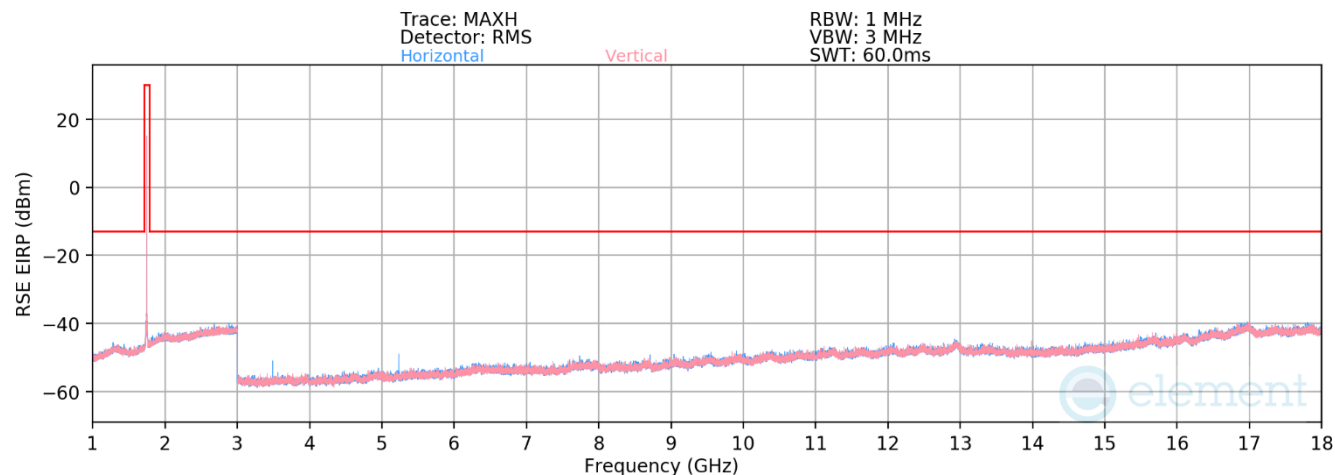
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	H	-	-	-79.21	5.23	33.02	-62.24	-13.00	-49.24
5310.0	V	291	187	-79.54	8.69	36.15	-59.11	-13.00	-46.11
7080.0	H	-	-	-82.07	11.29	36.23	-59.03	-13.00	-46.03
8850.0	H	-	-	-81.91	11.74	36.83	-58.43	-13.00	-45.43
10620.0	V	-	-	-83.11	15.13	39.02	-56.24	-13.00	-43.24

Table 7-13. Antenna FCM Radiated Spurious Data (LTE Band 66/4 – High Channel)


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NR Band n66



Plot 7-283. Antenna FCM Radiated Spurious Emission above 1GHz (NR Band n66)

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Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	H	100	183	-74.84	5.22	37.39	-57.87	-13.00	-44.87
5160.0	H	247	146	-79.14	8.23	36.08	-59.17	-13.00	-46.17
6880.0	V	-	-	-81.59	11.06	36.47	-58.79	-13.00	-45.79
8600.0	V	-	-	-80.95	11.17	37.22	-58.04	-13.00	-45.04
10320.0	V	-	-	-81.73	14.66	39.93	-55.33	-13.00	-42.33

Table 7-14. Antenna FCM Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	H	105	188	-74.11	5.21	38.10	-57.16	-13.00	-44.16
5235.0	H	105	226	-76.58	8.59	39.01	-56.25	-13.00	-43.25
6980.0	V	-	-	-82.70	11.77	36.06	-59.20	-13.00	-46.20
8725.0	V	-	-	-81.50	11.80	37.31	-57.95	-13.00	-44.95
10470.0	V	-	-	-82.73	15.08	39.34	-55.91	-13.00	-42.91

Table 7-15. Antenna FCM Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-79.26	5.22	32.97	-62.29	-13.00	-49.29
5310.0	H	264	219	-80.14	8.69	35.54	-59.71	-13.00	-46.71
7080.0	V	-	-	-82.09	11.29	36.20	-59.06	-13.00	-46.06
8850.0	V	-	-	-81.71	11.73	37.01	-58.24	-13.00	-45.24
10620.0	V	-	-	-82.95	15.13	39.18	-56.08	-13.00	-43.08

Table 7-16. Antenna FCM Radiated Spurious Data (NR Band n66 – High Channel)

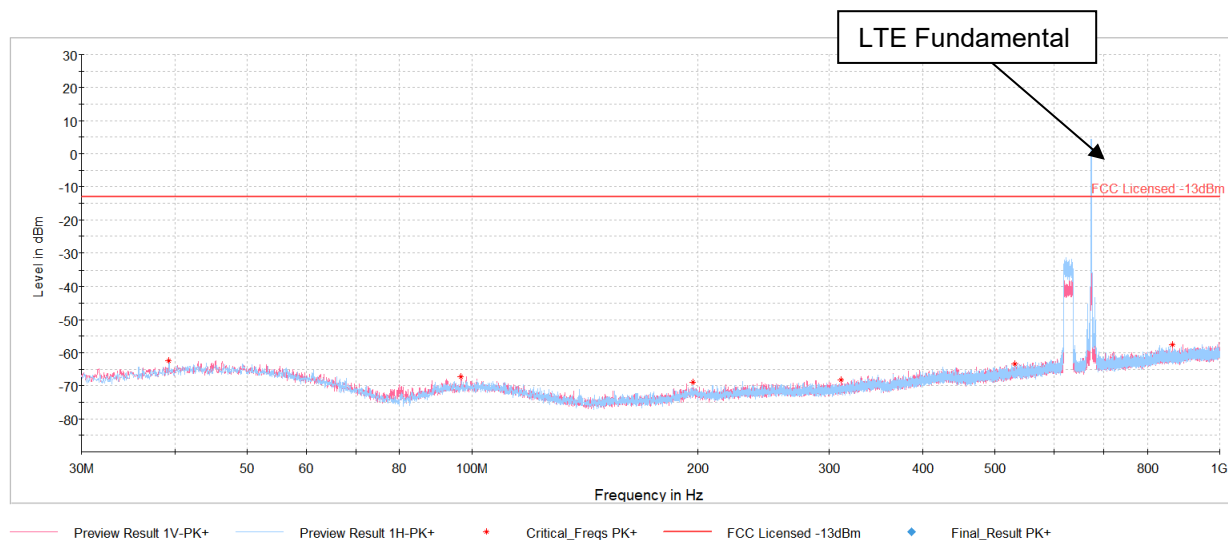
FCC ID: BCG-A3337	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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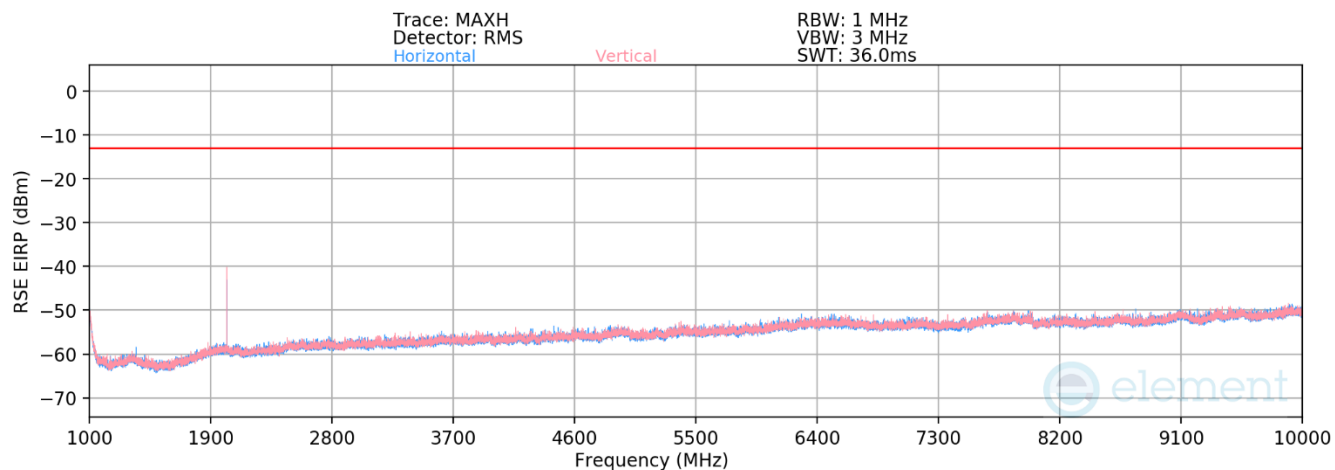
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7.7.2 Antenna BCM – Radiated Spurious Emission Measurement

LTE Band 71



Plot 7-284. Antenna BCM Radiated Spurious Emission below 1GHz (LTE Band 71)



Plot 7-285. Antenna BCM Radiated Spurious Emission above 1GHz (LTE Band 71)

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Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	H	131	226	-75.20	-1.07	30.73	-64.53	-13.00	-51.53
2019.0	V	177	331	-60.23	1.63	48.40	-46.86	-13.00	-33.86
2692.0	V	-	-	-78.63	3.20	31.57	-63.69	-13.00	-50.69
3365.0	V	-	-	-79.03	4.50	32.47	-62.79	-13.00	-49.79
4038.0	V	-	-	-79.84	6.11	33.27	-61.99	-13.00	-48.99

Table 7-17. Antenna BCM Radiated Spurious Data (LTE Band 71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	217	234	-75.30	-1.25	30.45	-64.81	-13.00	-51.81
2041.5	H	150	275	-68.34	1.83	40.49	-54.77	-13.00	-41.77
2722.0	V	-	-	-78.50	3.17	31.66	-63.59	-13.00	-50.59
3402.5	H	-	-	-78.93	4.31	32.38	-62.88	-13.00	-49.88
4083.0	V	-	-	-80.11	6.47	33.37	-61.89	-13.00	-48.89

Table 7-18. Antenna BCM Radiated Spurious Data (LTE Band 71 – Mid Channel)

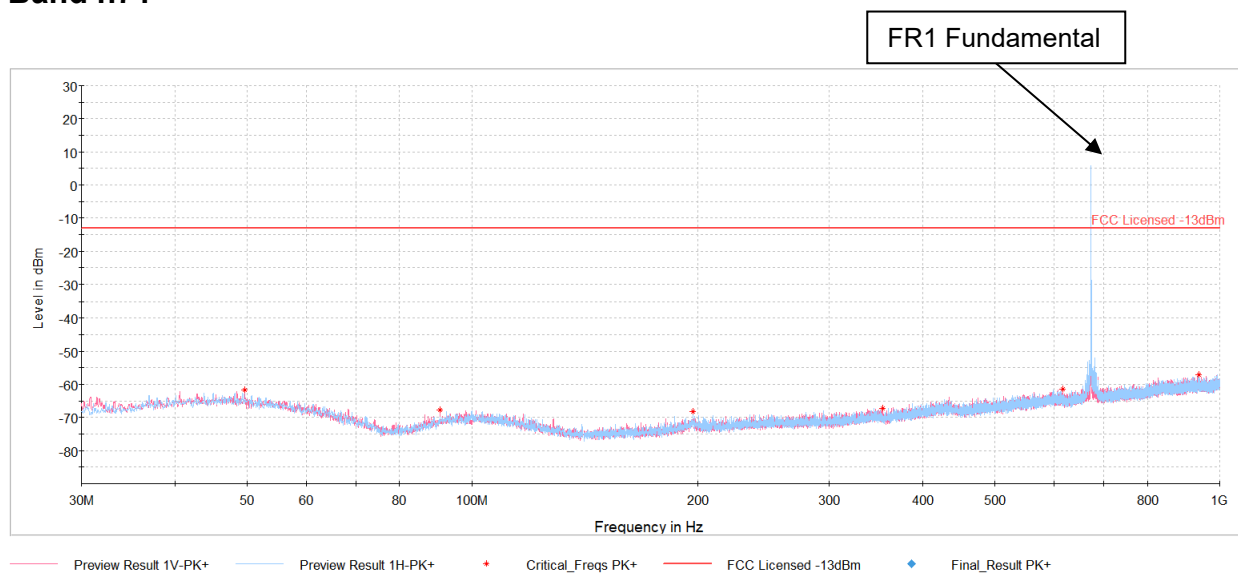
Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	165	227	-76.24	-1.23	29.53	-65.72	-13.00	-52.72
2064.0	H	268	277	-68.54	1.65	40.11	-55.15	-13.00	-42.15
2752.0	H	-	-	-78.15	3.17	32.01	-63.25	-13.00	-50.25
3440.0	V	-	-	-79.07	4.55	32.48	-62.78	-13.00	-49.78
4128.0	V	-	-	-79.90	6.24	33.33	-61.93	-13.00	-48.93

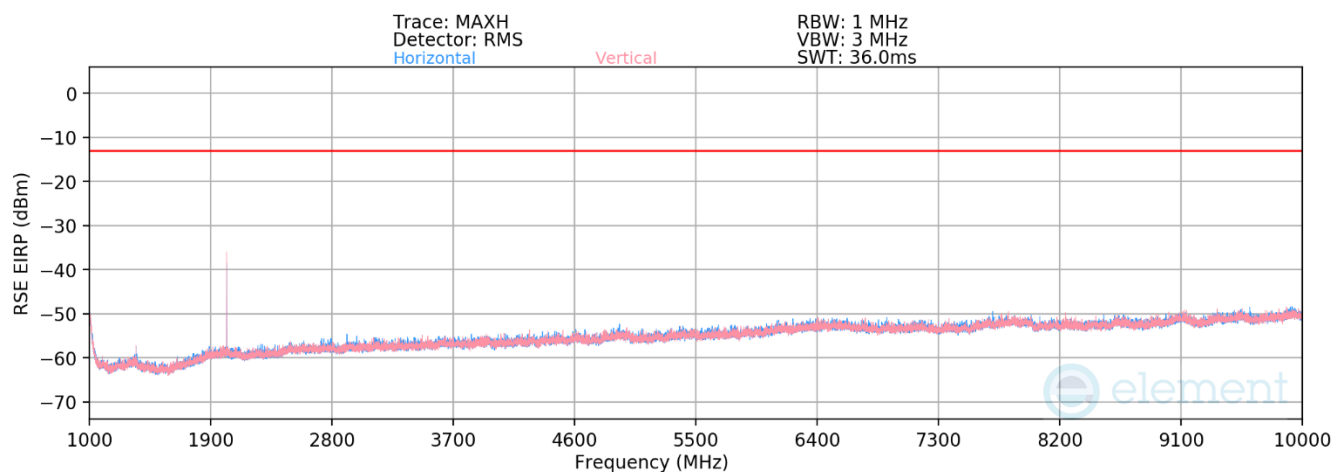
Table 7-19. Antenna BCM Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCG-A3337	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-03.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 184 of 202


NR Band n71



Plot 7-286. Antenna BCM Radiated Spurious Emission below 1GHz (NR Band n71)



Plot 7-287. Antenna BCM Radiated Spurious Emission above 1GHz (NR Band n71)

FCC ID: BCG-A3337	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-03.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 185 of 202

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Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	V	226	350	-75.73	-1.07	30.20	-65.05	-13.00	-52.05
2019.0	V	171	6	-55.71	1.63	52.91	-42.35	-13.00	-29.35
2692.0	V	-	-	-78.67	3.27	31.60	-63.65	-13.00	-50.65
3365.0	H	-	-	-79.12	4.50	32.38	-62.88	-13.00	-49.88
4038.0	V	-	-	-79.46	5.89	33.44	-61.82	-13.00	-48.82

Table 7-20. Antenna BCM Radiated Spurious Data (NR Band n71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	V	194	347	-73.29	-1.25	32.46	-62.79	-13.00	-49.79
2041.5	V	143	10	-60.51	1.83	48.32	-46.93	-13.00	-33.93
2722.0	H	-	-	-78.41	3.06	31.65	-63.61	-13.00	-50.61
3402.5	H	-	-	-79.24	4.57	32.32	-62.93	-13.00	-49.93
4083.0	V	-	-	-79.71	6.11	33.40	-61.86	-13.00	-48.86

Table 7-21. Antenna BCM Radiated Spurious Data (NR Band n71 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

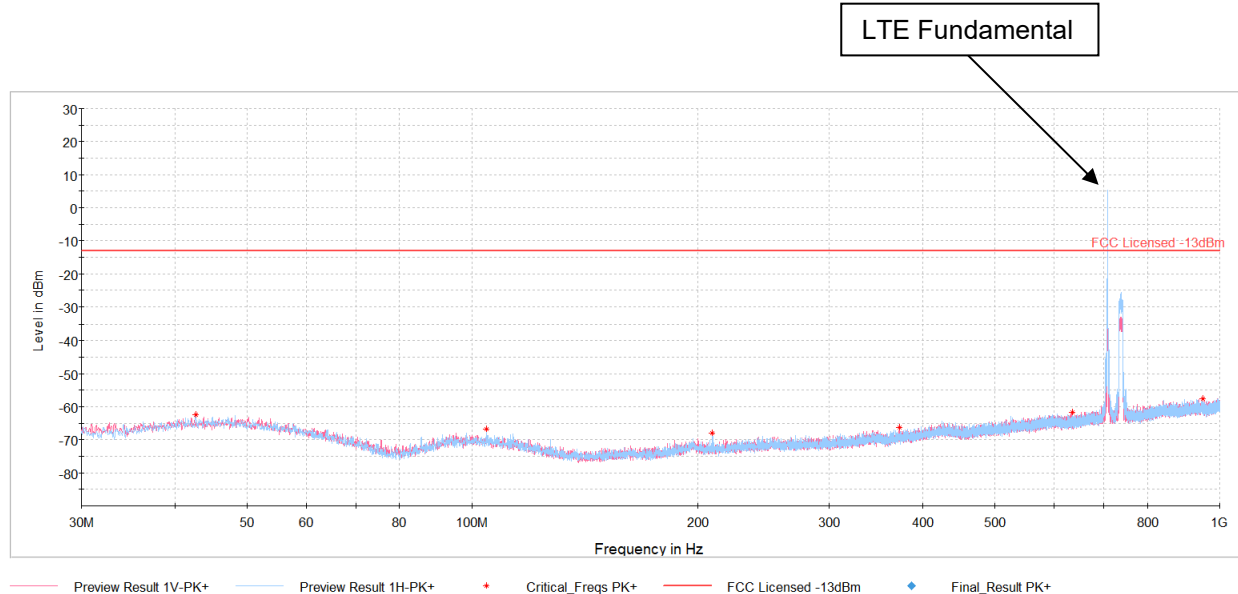
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	V	127	208	-76.13	-1.23	29.64	-65.62	-13.00	-52.62
2064.0	V	100	357	-55.75	1.65	52.91	-42.35	-13.00	-29.35
2752.0	H	-	-	-78.10	3.35	32.25	-63.01	-13.00	-50.01
3440.0	H	-	-	-79.36	4.57	32.21	-63.05	-13.00	-50.05
4128.0	V	-	-	-80.34	6.53	33.19	-62.07	-13.00	-49.07

Table 7-22. Antenna BCM Radiated Spurious Data (NR Band n71 – High Channel)

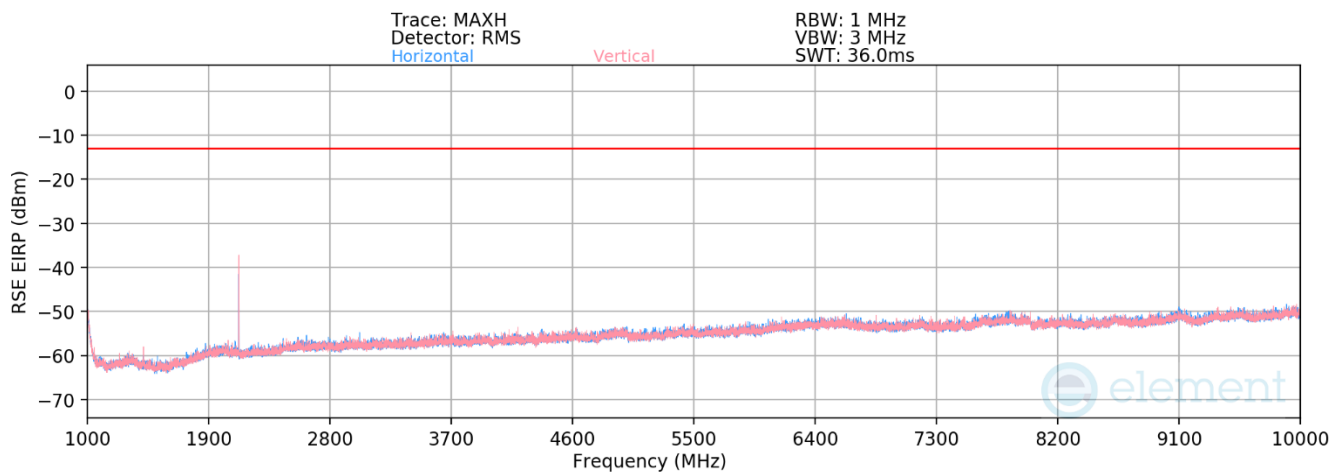
FCC ID: BCG-A3337	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12/17



Plot 7-288. Antenna BCM Radiated Spurious Emission below 1GHz (LTE Band 12/17)



Plot 7-289. Antenna BCM Radiated Spurious Emission above 1GHz (LTE Band 12/17)

FCC ID: BCG-A3337	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	10
Frequency (MHz):	704.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.0	V	121	166	-75.19	-1.98	29.83	-65.43	-13.00	-52.43
2112.0	V	100	320	-61.48	1.45	46.97	-48.29	-13.00	-35.29
2816.0	V	-	-	-78.47	3.23	31.76	-63.50	-13.00	-50.50
3520.0	V	-	-	-79.22	4.87	32.65	-62.61	-13.00	-49.61
4224.0	V	-	-	-80.33	6.58	33.24	-62.02	-13.00	-49.02

Table 7-23. Antenna BCM Radiated Spurious Data (LTE Band 12/17 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	231	138	-75.48	-1.98	29.54	-65.71	-13.00	-52.71
2122.5	V	175	350	-60.89	1.42	47.52	-47.73	-13.00	-34.73
2830.0	V	-	-	-78.69	3.26	31.57	-63.69	-13.00	-50.69
3537.5	V	-	-	-79.32	4.87	32.56	-62.70	-13.00	-49.70
4245.0	V	-	-	-80.07	6.27	33.21	-62.05	-13.00	-49.05

Table 7-24. Antenna BCM Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	711.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.0	H	170	221	-73.96	-1.98	31.06	-64.20	-13.00	-51.20
2133.0	H	131	61	-66.52	1.42	41.89	-53.36	-13.00	-40.36
2844.0	V	-	-	-78.67	3.27	31.60	-63.66	-13.00	-50.66
3555.0	H	-	-	-79.37	4.79	32.42	-62.84	-13.00	-49.84
4266.0	H	-	-	-79.86	6.32	33.47	-61.79	-13.00	-48.79

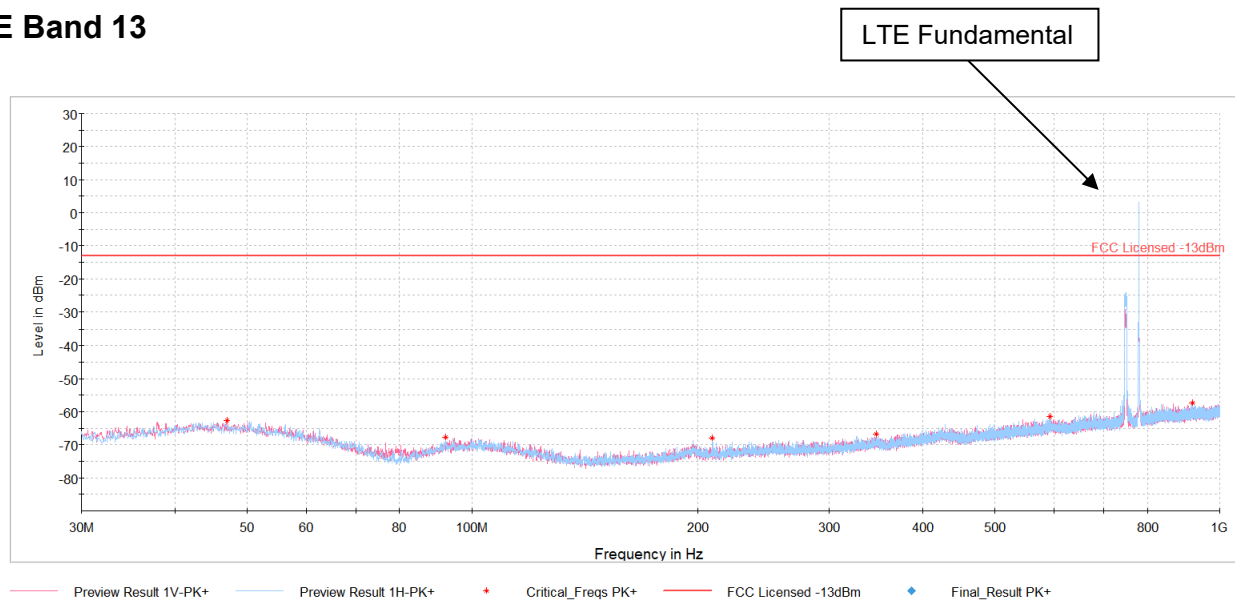
Table 7-25. Antenna BCM Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCG-A3337	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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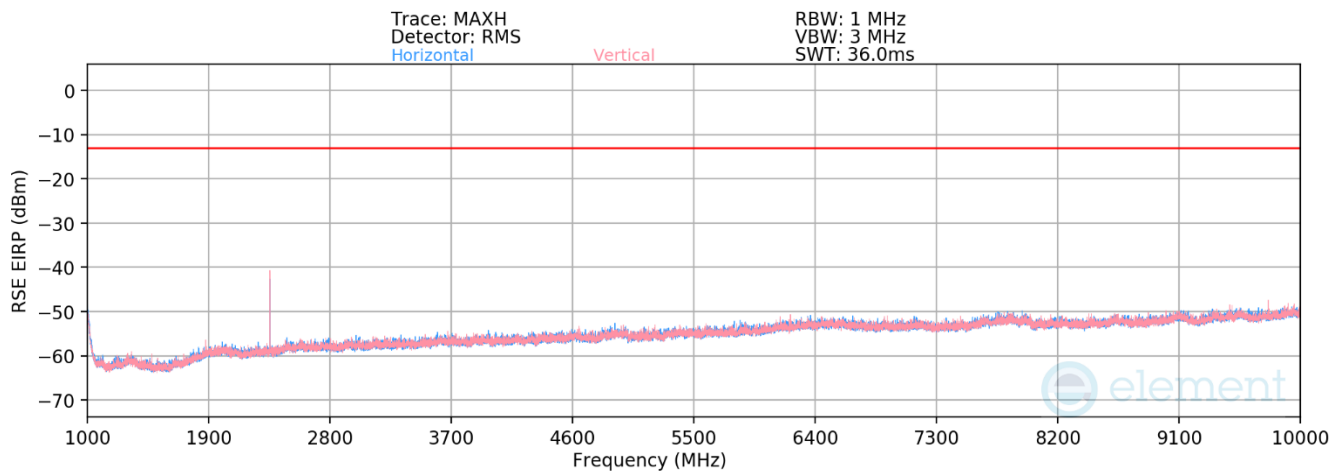
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LTE Band 13



Plot 7-290. Antenna BCM Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-291. Antenna BCM Radiated Spurious Emission above 1GHz (LTE Band 13)

FCC ID: BCG-A3337	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	779.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.0	H	151	234	-75.19	-2.44	29.37	-65.89	-40.00	-25.89
2338.5	H	159	58	-65.46	1.75	43.29	-51.97	-13.00	-38.97
3118.0	V	-	-	-78.85	4.33	32.48	-62.77	-13.00	-49.77
3897.5	V	-	-	-79.50	5.76	33.26	-61.99	-13.00	-48.99
4677.0	V	-	-	-80.30	7.46	34.15	-61.10	-13.00	-48.10

Table 7-26. Antenna BCM Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	782.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.0	V	288	312	-76.32	-2.36	28.32	-66.94	-40.00	-26.94
2346.0	H	147	74	-64.58	1.71	44.12	-51.13	-13.00	-38.13
3128.0	V	-	-	-78.57	4.18	32.61	-62.65	-13.00	-49.65
3910.0	V	-	-	-79.66	5.76	33.09	-62.16	-13.00	-49.16
4692.0	H	-	-	-80.71	7.46	33.75	-61.51	-13.00	-48.51

Table 7-27. Antenna BCM Radiated Spurious Data (LTE Band 13 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1 / 25

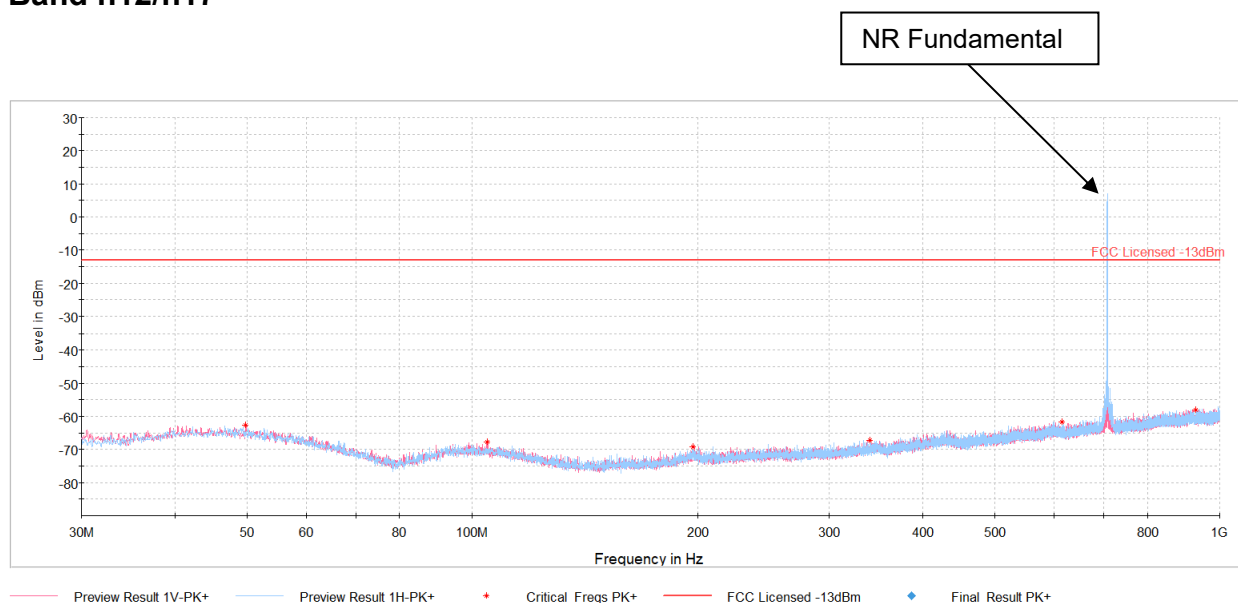
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.0	H	121	233	-76.29	-2.36	28.34	-66.91	-40.00	-26.91
2353.5	H	117	250	-62.62	1.63	46.01	-49.24	-13.00	-36.24
3138.0	V	-	-	-78.88	4.33	32.45	-62.80	-13.00	-49.80
3922.5	V	-	-	-79.88	5.93	33.05	-62.21	-13.00	-49.21
4707.0	V	-	-	-80.91	7.69	33.78	-61.48	-13.00	-48.48

Table 7-28. Antenna BCM Radiated Spurious Data (LTE Band 13 – High Channel)

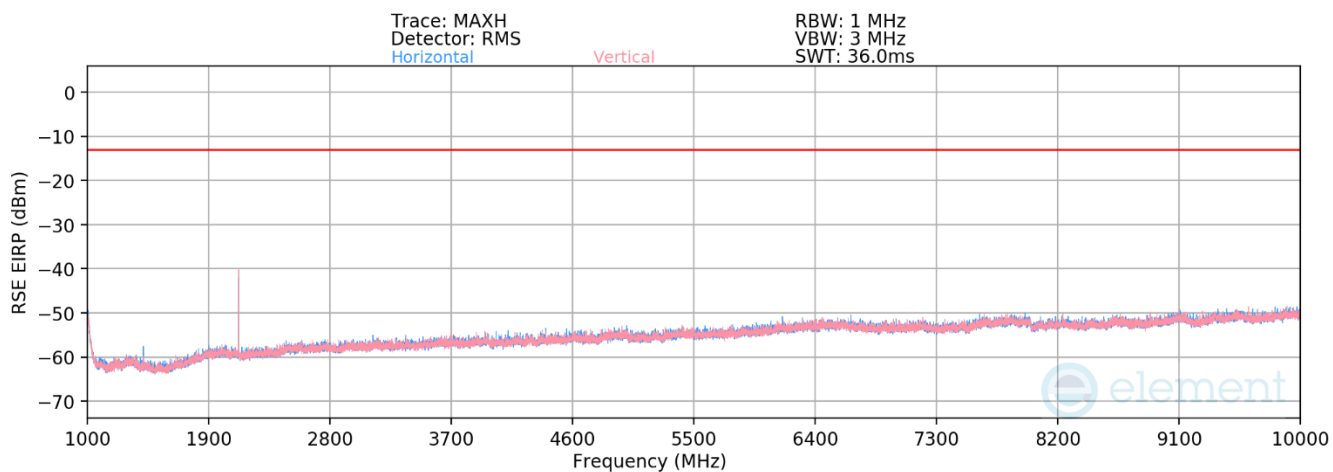
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NR Band n12/n17



Plot 7-292. Antenna BCM Radiated Spurious Emission below 1GHz (NR Band n12/n17)



Plot 7-293. Antenna BCM Radiated Spurious Emission above 1GHz (NR Band n12/n17)

FCC ID: BCG-A3337	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.0	H	242	305	-74.56	-1.98	30.46	-64.80	-13.00	-51.80
2119.5	H	244	291	-62.54	1.45	45.91	-49.35	-13.00	-36.35
2826.0	V	-	-	-78.54	3.26	31.71	-63.54	-13.00	-50.54
3532.5	V	-	-	-79.24	4.84	32.61	-62.65	-13.00	-49.65
4239.0	V	-	-	-79.73	6.27	33.55	-61.71	-13.00	-48.71

Table 7-29. Antenna BCM Radiated Spurious Data (NR Band n12/n17 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 37


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	118	274	-76.00	-1.98	29.02	-66.24	-13.00	-53.24
2122.5	H	131	271	-61.59	1.45	46.86	-48.40	-13.00	-35.40
2830.0	V	-	-	-78.66	3.26	31.60	-63.66	-13.00	-50.66
3537.5	V	-	-	-79.27	4.79	32.52	-62.74	-13.00	-49.74
4245.0	V	-	-	-80.08	6.32	33.24	-62.02	-13.00	-49.02

Table 7-30. Antenna BCM Radiated Spurious Data (NR Band n12/n17 – Mid Channel)

Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.0	H	201	299	-75.07	-1.98	29.95	-65.31	-13.00	-52.31
2125.5	V	108	17	-65.12	1.42	43.30	-51.96	-13.00	-38.96
2834.0	V	-	-	-78.65	3.25	31.60	-63.66	-13.00	-50.66
3542.5	V	-	-	-79.16	4.79	32.63	-62.63	-13.00	-49.63
4251.0	V	-	-	-79.91	6.27	33.36	-61.89	-13.00	-48.89

Table 7-31. Antenna BCM Radiated Spurious Data (NR Band n12/n17 – High Channel)

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7.8 Frequency Stability / Temperature Variation

\$2.1053, \$27.53

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.


Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

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Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber. For LTE testing, in addition, the EUT was connected to a communication tester via an attenuated RF coupler.

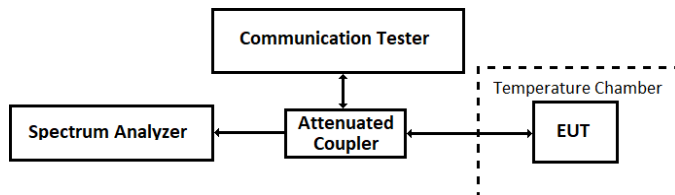


Figure 7-13. LTE Test Instrument & Measurement Setup

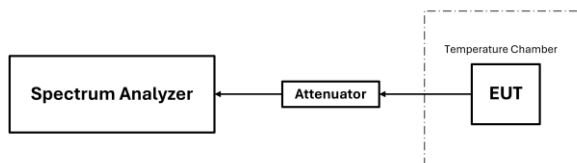



Figure 7-14. FR1 Test Instrument & Measurement Setup

Test Notes

N/A

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LTE Band 66/4				
Operating Band Lower Boundary (GHz)			1.710	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.71090860	-0.00090860
		- 20	1.71044920	-0.00044920
		- 10	1.71015370	-0.00015370
		0	1.71080620	-0.00080620
		+ 10	1.71016370	-0.00016370
		+ 20 (Ref)	1.71078710	-0.00078710
		+ 30	1.71046960	-0.00046960
		+ 40	1.71089790	-0.00089790
		+ 50	1.71013680	-0.00013680
Battery Endpoint	3.40	+ 20	1.71047450	-0.00047450

Table 7-32. LTE Band 66/4 Lower Boundary Frequency Stability Data

LTE Band 66/4				
Operating Band Upper Boundary (GHz)			1.780	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.77984900	-0.00015100
		- 20	1.77938420	-0.00061580
		- 10	1.77956200	-0.00043800
		0	1.77973590	-0.00026410
		+ 10	1.77997210	-0.00002790
		+ 20 (Ref)	1.77968330	-0.00031670
		+ 30	1.77903020	-0.00096980
		+ 40	1.77929560	-0.00070440
		+ 50	1.77912760	-0.00087240
Battery Endpoint	3.40	+ 20	1.77902360	-0.00097640

Table 7-33. LTE Band 66/4 Upper Boundary Frequency Stability Data

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LTE Band 71				
Operating Band Lower Boundary (GHz)			0.663	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.66326940	-0.00026940
		- 20	0.66329500	-0.00029500
		- 10	0.66345240	-0.00045240
		0	0.66397010	-0.00097010
		+ 10	0.66344430	-0.00044430
		+ 20 (Ref)	0.66332020	-0.00032020
		+ 30	0.66318540	-0.00018540
		+ 40	0.66397480	-0.00097480
		+ 50	0.66385710	-0.00085710
Battery Endpoint	3.40	+ 20	0.66384480	-0.00084480

Table 7-34. LTE Band 71 Lower Boundary Frequency Stability Data

LTE Band 71				
Operating Band Upper Boundary (GHz)			0.698	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69777730	-0.00022270
		- 20	0.69758900	-0.00041100
		- 10	0.69743740	-0.00056260
		0	0.69745800	-0.00054200
		+ 10	0.69777110	-0.00022890
		+ 20 (Ref)	0.69758720	-0.00041280
		+ 30	0.69746520	-0.00053480
		+ 40	0.69740040	-0.00059960
		+ 50	0.69776390	-0.00023610
Battery Endpoint	3.40	+ 20	0.69744850	-0.00055150

Table 7-35. LTE Band 71 Upper Boundary Frequency Stability Data

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LTE Band 12/17				
Operating Band Lower Boundary (GHz)			0.699	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69974720	-0.00174720
		- 20	0.69990090	-0.00190090
		- 10	0.69919260	-0.00119260
		0	0.69937840	-0.00137840
		+ 10	0.69975510	-0.00175510
		+ 20 (Ref)	0.69912010	-0.00112010
		+ 30	0.69901750	-0.00101750
		+ 40	0.69902990	-0.00102990
		+ 50	0.69930740	-0.00130740
Battery Endpoint	3.40	+ 20	0.69919560	-0.00119560

Table 7-36. LTE Band 12/17 Lower Boundary Frequency Stability Data

LTE Band 12/17				
Operating Band Upper Boundary (GHz)			0.716	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.71547090	-0.00052910
		- 20	0.71501350	-0.00098650
		- 10	0.71557190	-0.00042810
		0	0.71520560	-0.00079440
		+ 10	0.71545850	-0.00054150
		+ 20 (Ref)	0.71515320	-0.00084680
		+ 30	0.71513850	-0.00086150
		+ 40	0.71516650	-0.00083350
		+ 50	0.71542760	-0.00057240
Battery Endpoint	3.40	+ 20	0.71587440	-0.00012560

Table 7-37. LTE Band 12/17 Upper Boundary Frequency Stability Data

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LTE Band 13				
Operating Band Lower Boundary (GHz)			0.777	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.77761010	-0.00061010
		- 20	0.77785160	-0.00085160
		- 10	0.77775990	-0.00075990
		0	0.77778150	-0.00078150
		+ 10	0.77752510	-0.00052510
		+ 20 (Ref)	0.77764060	-0.00064060
		+ 30	0.77767590	-0.00067590
		+ 40	0.77788510	-0.00088510
		+ 50	0.77778820	-0.00078820
Battery Endpoint	3.40	+ 20	0.77785120	-0.00085120

Table 7-38. LTE Band 13 Lower Boundary Frequency Stability Data

LTE Band 13				
Operating Band Upper Boundary (GHz)			0.787	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.78667310	-0.00032690
		- 20	0.78646690	-0.00053310
		- 10	0.78676380	-0.00023620
		0	0.78617830	-0.00082170
		+ 10	0.78681500	-0.00018500
		+ 20 (Ref)	0.78646310	-0.00053690
		+ 30	0.78601080	-0.00098920
		+ 40	0.78621520	-0.00078480
		+ 50	0.78685730	-0.00014270
Battery Endpoint	3.40	+ 20	0.78643700	-0.00056300

Table 7-39. LTE Band 13 Upper Boundary Frequency Stability Data

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NR Band n66				
Operating Band Lower Boundary (GHz)			1.710	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.71041350	-0.00041350
		- 20	1.71041170	-0.00041170
		- 10	1.71076290	-0.00076290
		0	1.71067380	-0.00067380
		+ 10	1.71022210	-0.00022210
		+ 20 (Ref)	1.71053160	-0.00053160
		+ 30	1.71055680	-0.00055680
		+ 40	1.71052080	-0.00052080
		+ 50	1.71054860	-0.00054860
Battery Endpoint	3.40	+ 20	1.71068670	-0.00068670

Table 7-40. NR Band n66 Lower Boundary Frequency Stability Data

NR Band n66				
Operating Band Upper Boundary (GHz)			1.780	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.77957760	-0.00042240
		- 20	1.77961570	-0.00038430
		- 10	1.77949280	-0.00050720
		0	1.77954690	-0.00045310
		+ 10	1.77946200	-0.00053800
		+ 20 (Ref)	1.77974080	-0.00025920
		+ 30	1.77982270	-0.00017730
		+ 40	1.77950790	-0.00049210
		+ 50	1.77951390	-0.00048610
Battery Endpoint	3.40	+ 20	1.77957750	-0.00042250

Table 7-41. NR Band n66 Upper Boundary Frequency Stability Data

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NR Band n71				
Operating Band Lower Boundary (GHz)			0.663	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.66357320	-0.00057320
		- 20	0.66362740	-0.00062740
		- 10	0.66341760	-0.00041760
		0	0.66332030	-0.00032030
		+ 10	0.66348690	-0.00048690
		+ 20 (Ref)	0.66340520	-0.00040520
		+ 30	0.66352750	-0.00052750
		+ 40	0.66346720	-0.00046720
		+ 50	0.66350920	-0.00050920
Battery Endpoint	3.40	+ 20	0.66345550	-0.00045550

Table 7-42. NR Band n71 Lower Boundary Frequency Stability Data

NR Band n71				
Operating Band Upper Boundary (GHz)			0.698	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69741880	-0.00058120
		- 20	0.69727630	-0.00072370
		- 10	0.69779770	-0.00020230
		0	0.69786860	-0.00013140
		+ 10	0.69789260	-0.00010740
		+ 20 (Ref)	0.69782200	-0.00017800
		+ 30	0.69785406	-0.00014594
		+ 40	0.69760690	-0.00039310
		+ 50	0.69725940	-0.00074060
Battery Endpoint	3.40	+ 20	0.69738140	-0.00061860

Table 7-43. NR Band n71 Upper Boundary Frequency Stability Data

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NR Band n12				
Operating Band Lower Boundary (GHz)			0.699	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69975920	-0.00075920
		- 20	0.69964090	-0.00064090
		- 10	0.69954720	-0.00054720
		0	0.69989030	-0.00089030
		+ 10	0.69896160	0.00003840
		+ 20 (Ref)	0.69938930	-0.00038930
		+ 30	0.69974840	-0.00074840
		+ 40	0.69934350	-0.00034350
		+ 50	0.69932890	-0.00032890
Battery Endpoint	3.40	+ 20	0.69938290	-0.00038290

Table 7-44. NR Band n12 Lower Boundary Frequency Stability Data

NR Band n12				
Operating Band Upper Boundary (GHz)			0.716	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.71536270	-0.00063730
		- 20	0.71554790	-0.00045210
		- 10	0.71573730	-0.00026270
		0	0.71543410	-0.00056590
		+ 10	0.71574350	-0.00025650
		+ 20 (Ref)	0.71536740	-0.00063260
		+ 30	0.71571080	-0.00028920
		+ 40	0.71571240	-0.00028760
		+ 50	0.71565060	-0.00034940
Battery Endpoint	3.40	+ 20	0.71530980	-0.00069020


Table 7-45. NR Band n12 Upper Boundary Frequency Stability Data

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Watch** **FCC ID: BCG-A3337** complies with all the requirements of Part 27 of the FCC rules.

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