



Plot 7-218. Upper Band Edge Plot (NR Band n66 – 10MHz DFT-S-OFDM π/2 BPSK - Full RB)

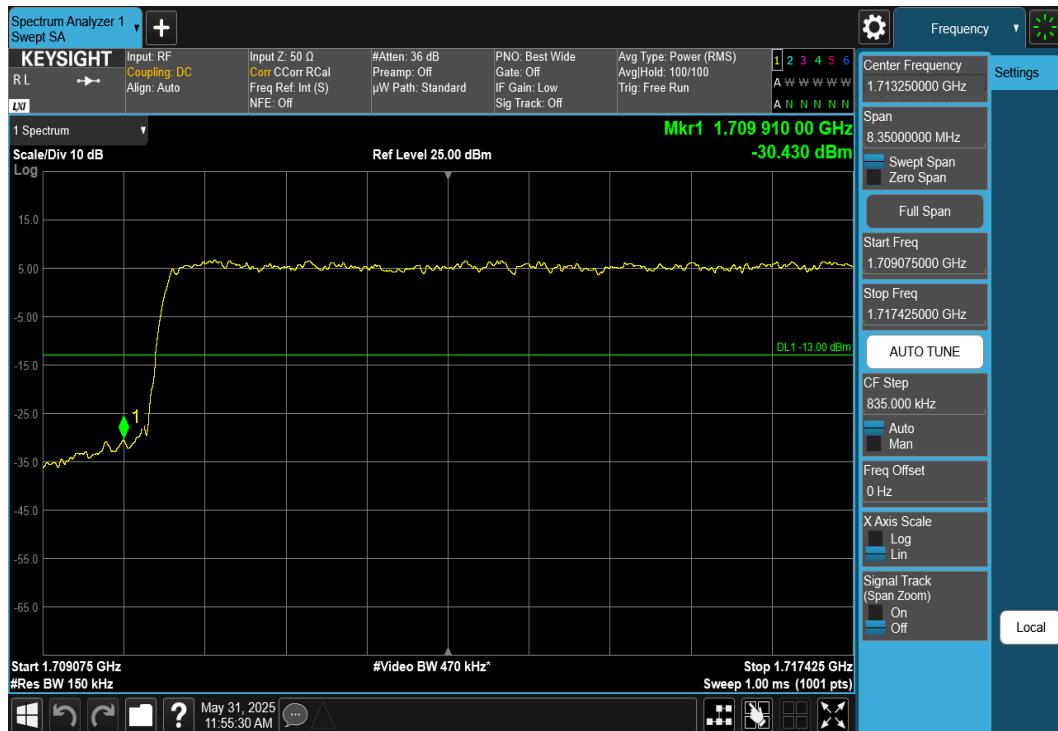


Plot 7-219. Upper Extended Band Edge Plot (NR Band n66 – 10MHz DFT-S-OFDM π/2 BPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-220. Lower Extended Band Edge Plot (NR Band n66 – 15MHz DFT-S-OFDM π/2 BPSK - Full RB)



Plot 7-221. Lower Band Edge Plot (NR Band n66 – 15MHz DFT-S-OFDM π/2 BPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-222. Upper Band Edge Plot (NR Band n66 – 15MHz DFT -OFDM $\pi/2$ BPSK - Full RB)

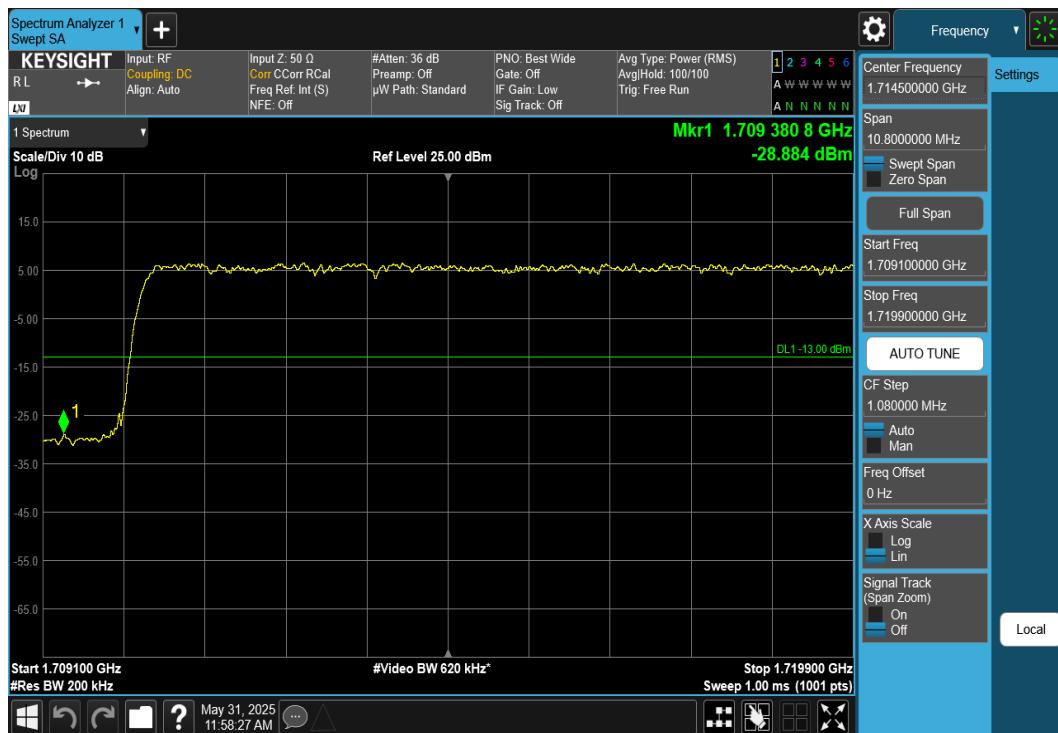


Plot 7-223. Upper Extended Band Edge Plot (NR Band n66 – 15MHz DFT-S-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-224. Lower Extended Band Edge Plot (NR Band n66 – 20MHz DFT-S-OFDM π/2 BPSK - Full RB)



Plot 7-225. Lower Band Edge Plot (NR Band n66 – 20MHz DFT-S-OFDM π/2 BPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 137 of 202



Plot 7-226. Upper Band Edge Plot (NR Band n66 – 20MHz DFT-S-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-227. Upper Extended Band Edge Plot (NR Band n66 – 20MHz DFT-S-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71



Plot 7-228. Lower Band Edge Plot (NR Band n71 – 5MHz DFT-S-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-229. Upper Band Edge Plot (NR Band n71 – 5MHz DFT-S-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-230. Lower Band Edge Plot (NR Band n71 – 10MHz DFT-S-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-231. Upper Band Edge Plot (NR Band n71 – 10MHz DFT-S-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-232. Lower Band Edge Plot (NR Band n71 – 15MHz DFT-S-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-233. Upper Band Edge Plot (NR Band n71 – 15MHz DFT-S-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-235. Upper Band Edge Plot (NR Band n71 – 20MHz DFT-S-OFDM π/2 BPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 142 of 202	

NR Band n12



Plot 7-236. Lower Band Edge Plot (NR Band n12 – 5MHz DFT-S-OFDM π/2 BPSK - Full RB)



Plot 7-237. Upper Band Edge Plot (NR Band n12 – 5MHz DFT-S-OFDM π/2 BPSK - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 143 of 202	



Plot 7-238. Lower Band Edge Plot (NR Band n12 – 10MHz DFT-S-OFDM π/2 BPSK - Full RB)



Plot 7-239. Upper Band Edge Plot (NR Band n12 – 10MHz DFT-S-OFDM π/2 BPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 144 of 202



Plot 7-240. Lower Band Edge Plot (NR Band n12 – 15MHz DFT-S-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-241. Upper Band Edge Plot (NR Band n12 – 15MHz DFT-S-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 145 of 202

7.5 Peak-Average Ratio

§27.50(d)(5)

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW \geq OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

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Test Setup

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

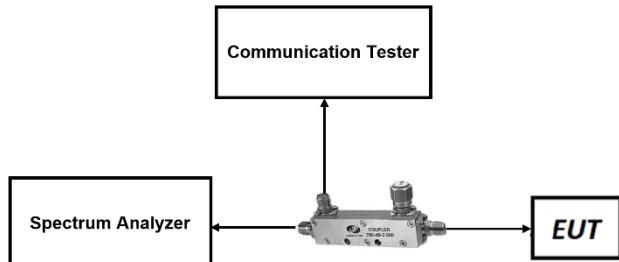


Figure 7-7. LTE Test Instrument & Measurement Setup

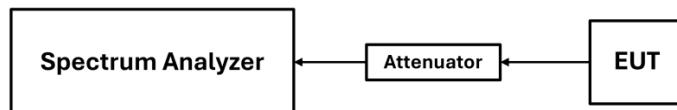


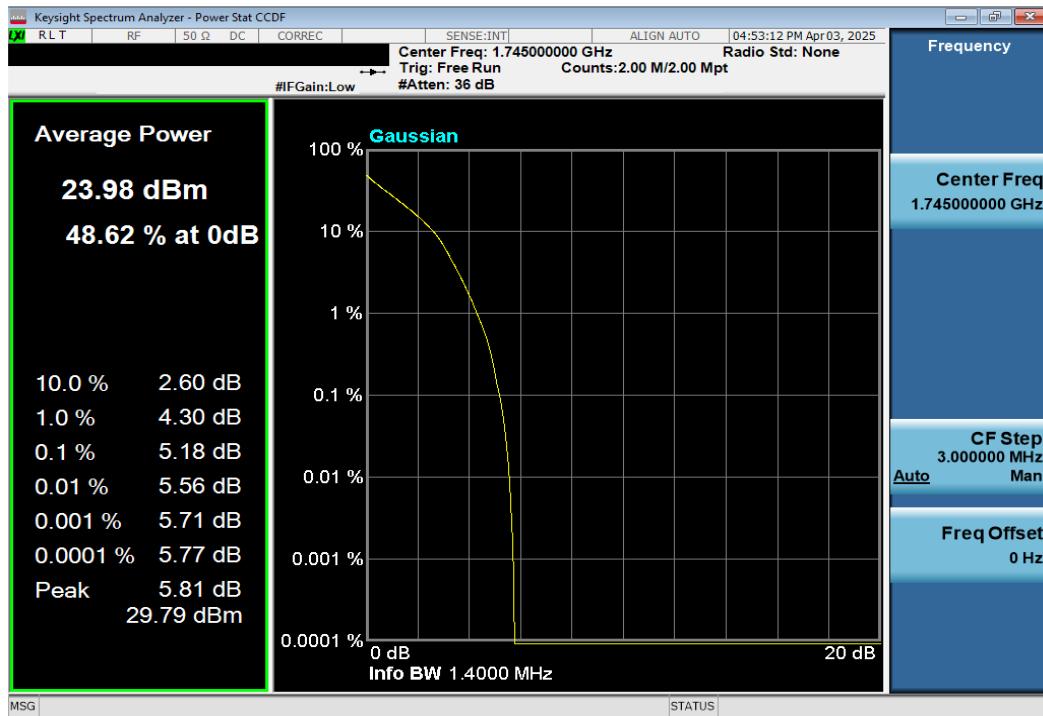
Figure 7-8. FR1 Test Instrument & Measurement Setup

Test Notes

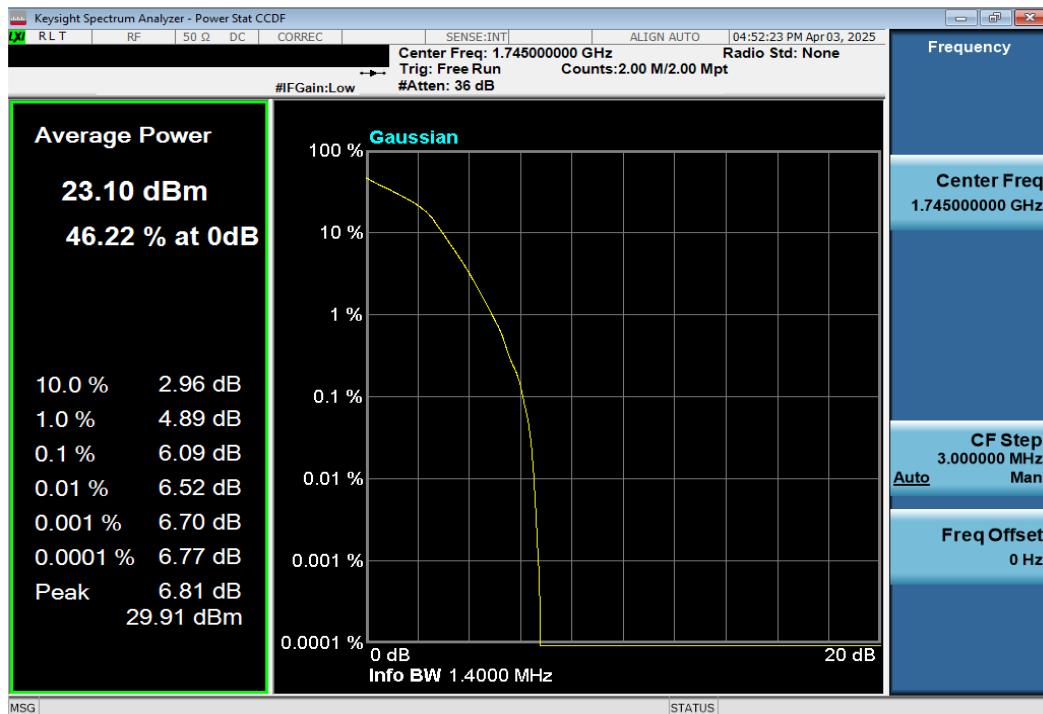
None.

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66

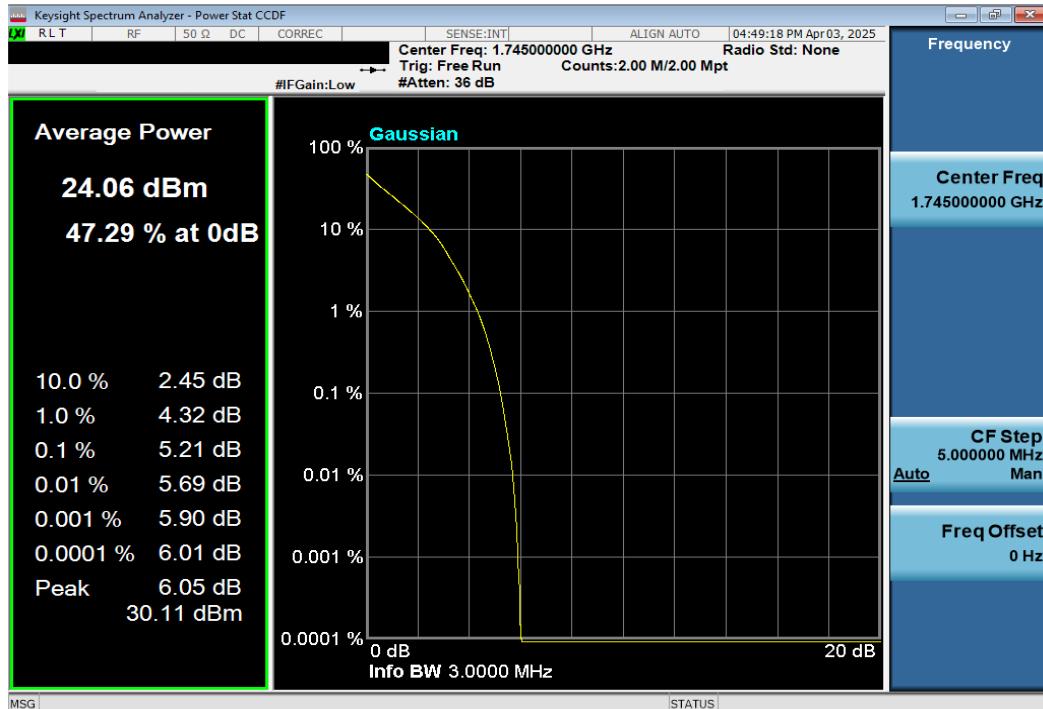


Plot 7-242. PAR Plot (LTE Band 66 - 1.4MHz QPSK - Full RB)

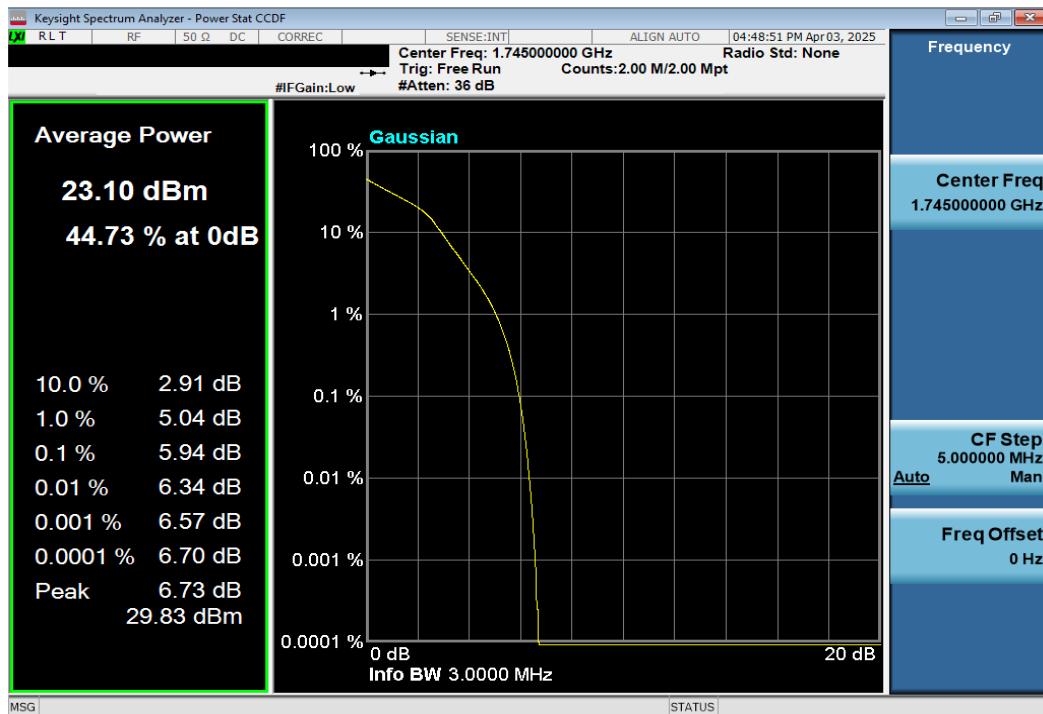


Plot 7-243. PAR Plot (LTE Band 66 - 1.4MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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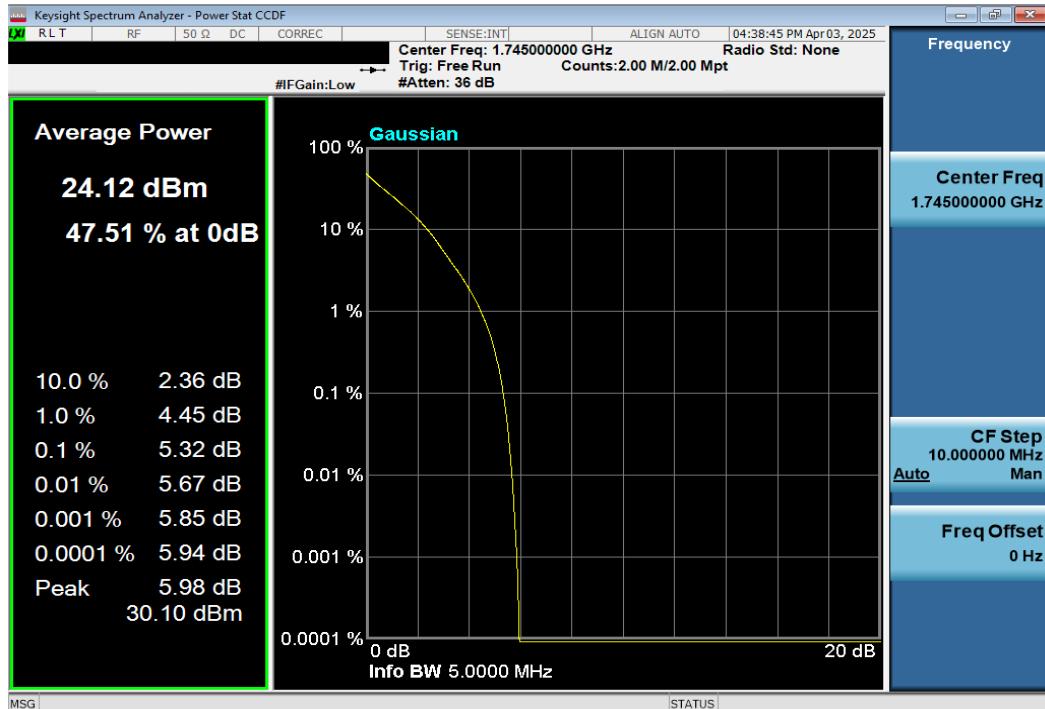


Plot 7-244. PAR Plot (LTE Band 66 - 3MHz QPSK - Full RB)

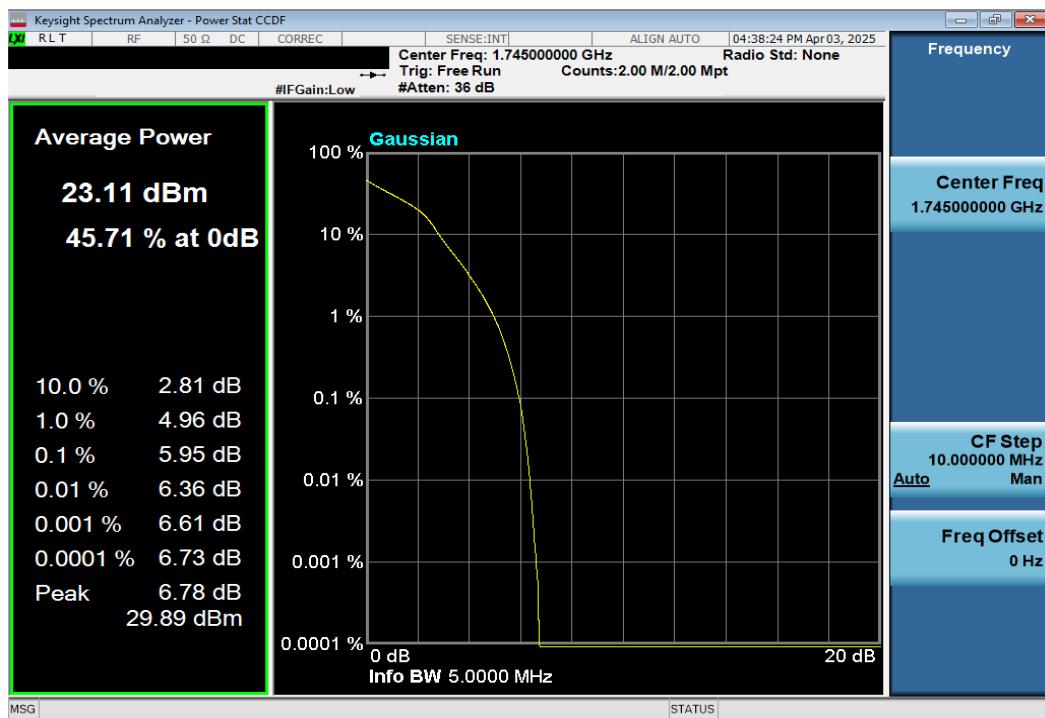


Plot 7-245. PAR Plot (LTE Band 66 - 3MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 149 of 202	

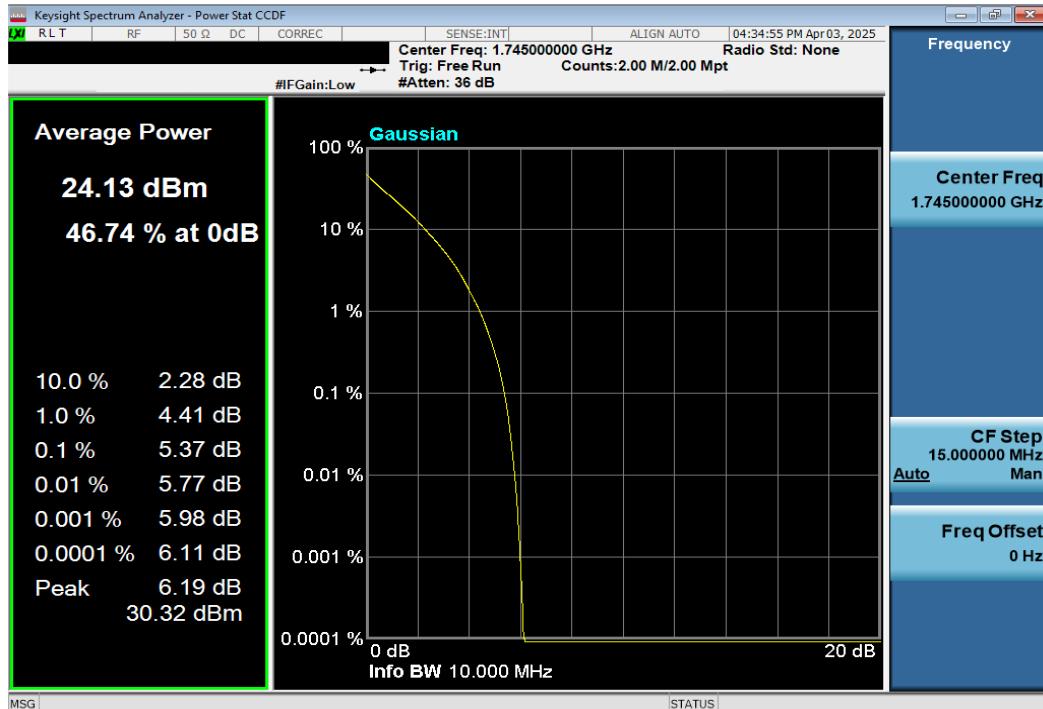


Plot 7-246. PAR Plot (LTE Band 66 - 5MHz QPSK - Full RB)

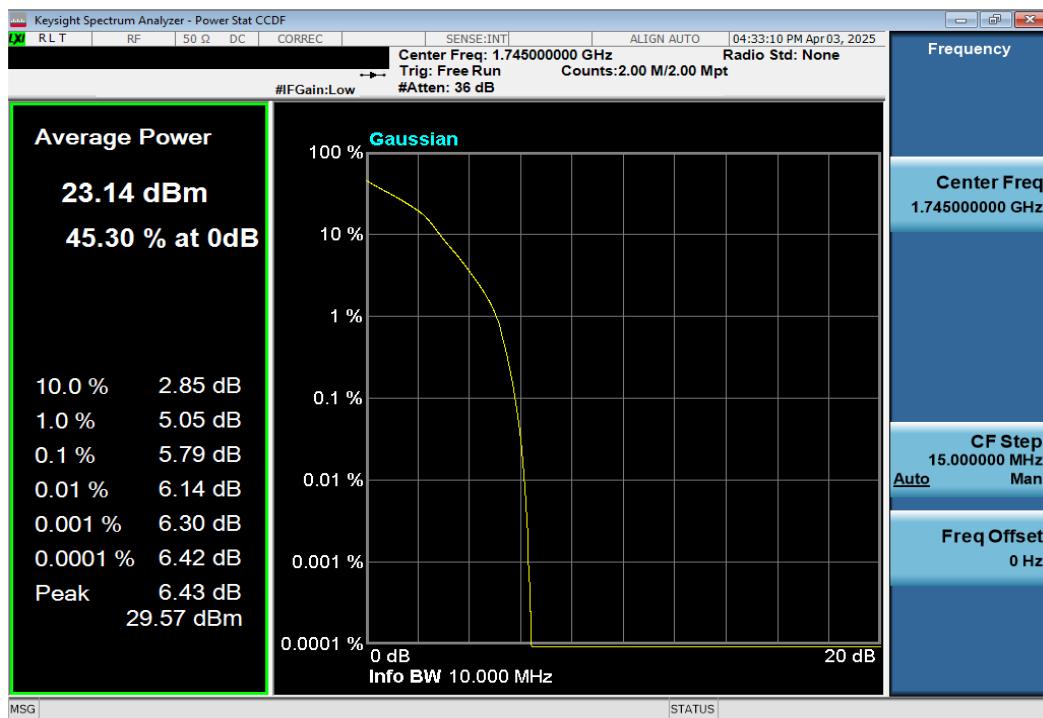


Plot 7-247. PAR Plot (LTE Band 66 - 5MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 150 of 202	

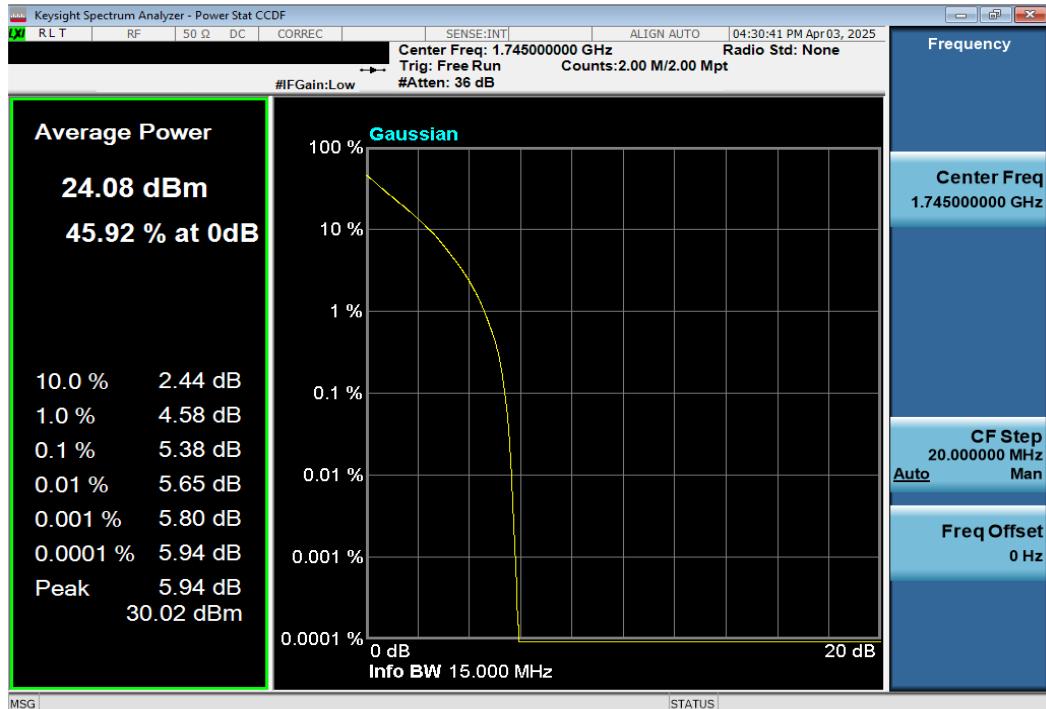


Plot 7-248. PAR Plot (LTE Band 66 - 10MHz QPSK - Full RB)

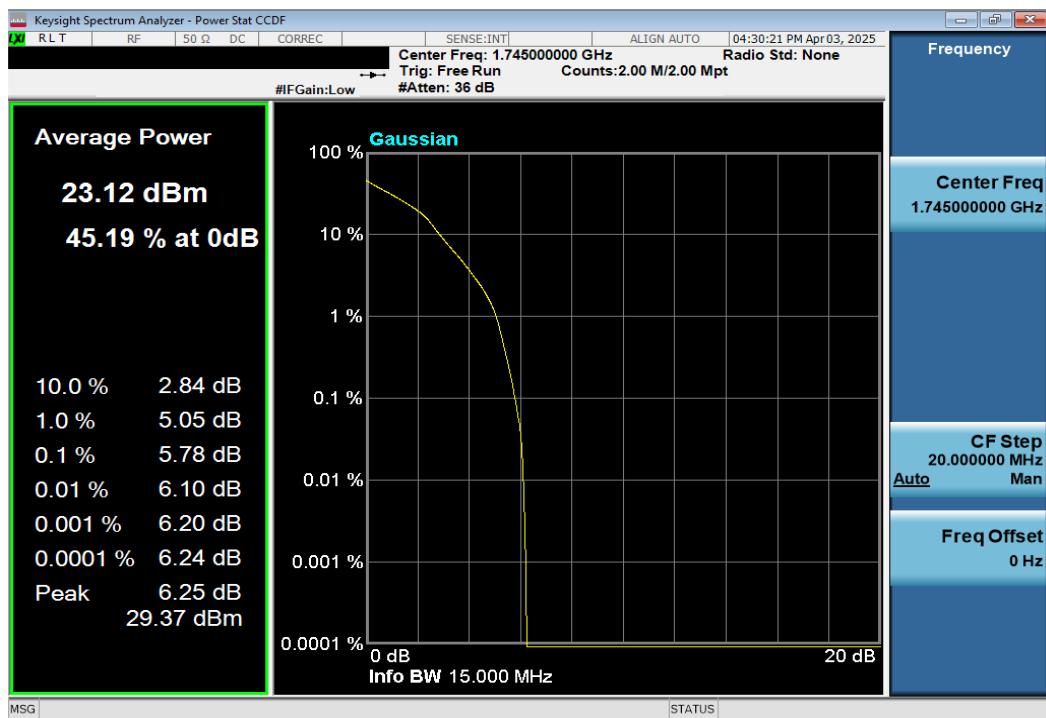


Plot 7-249. PAR Plot (LTE Band 66 - 10MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 151 of 202	

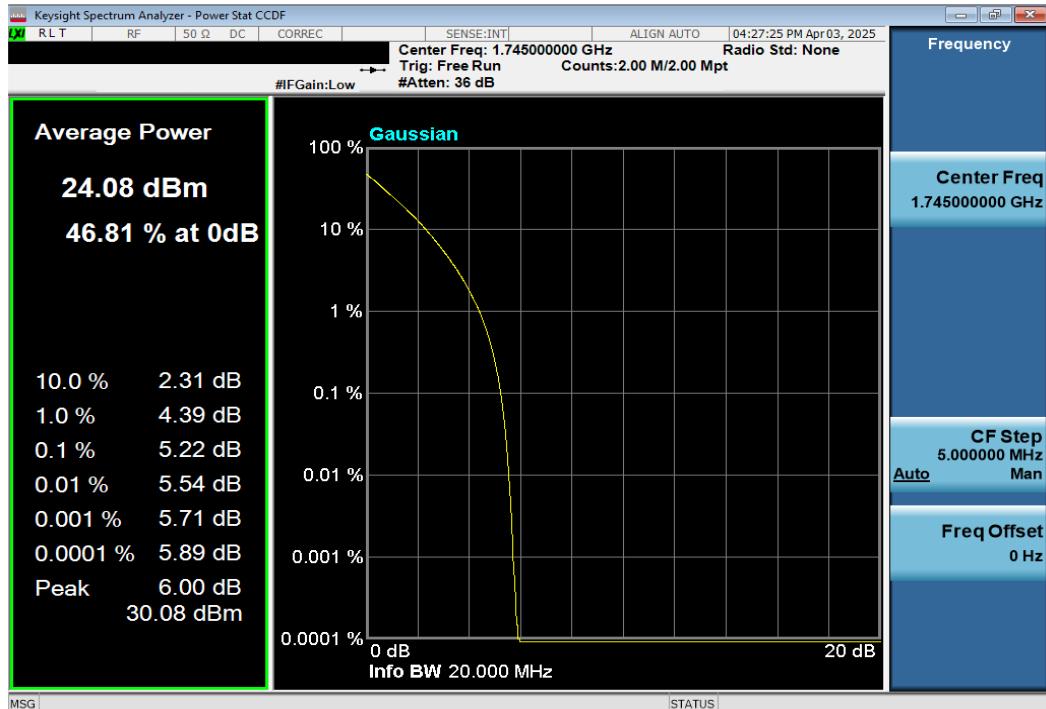


Plot 7-250. PAR Plot (LTE Band 66 - 15MHz QPSK - Full RB)

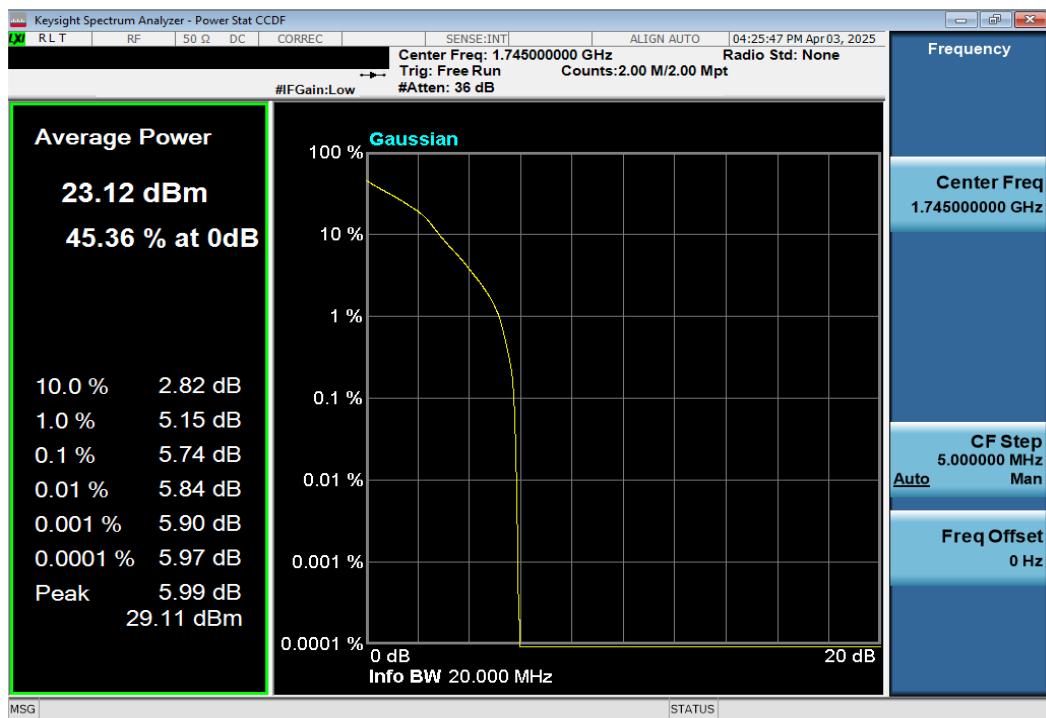


Plot 7-251. PAR Plot (LTE Band 66 - 15MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 152 of 202



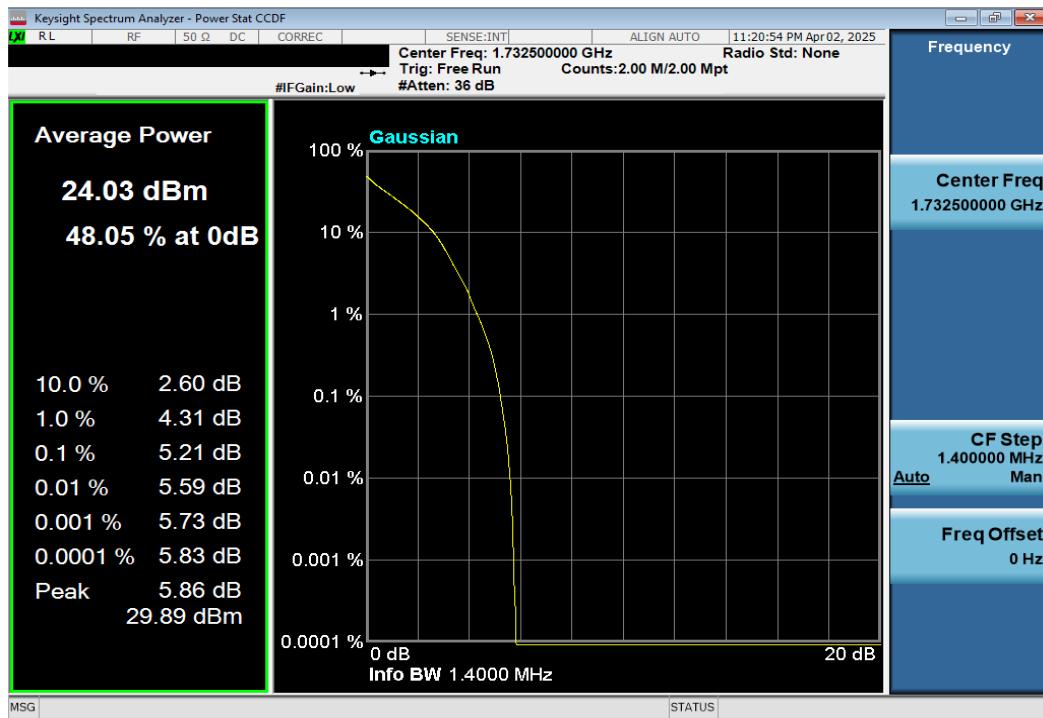
Plot 7-252. PAR Plot (LTE Band 66 - 20MHz QPSK - Full RB)



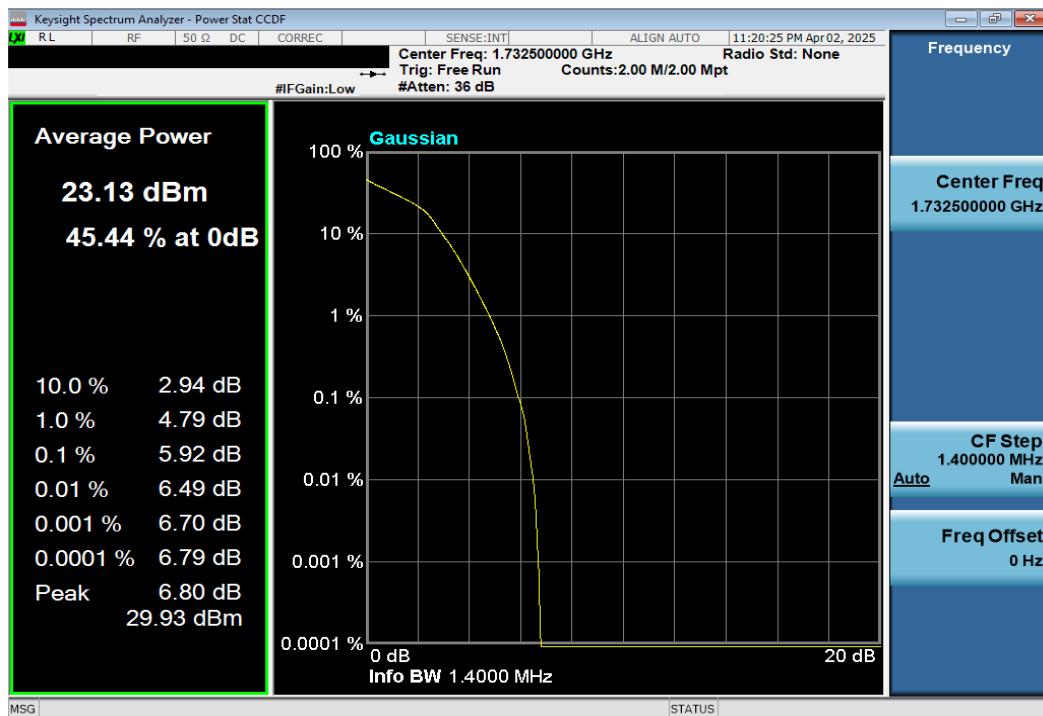
Plot 7-253. PAR Plot (LTE Band 66 - 20MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 153 of 202	

LTE Band 4

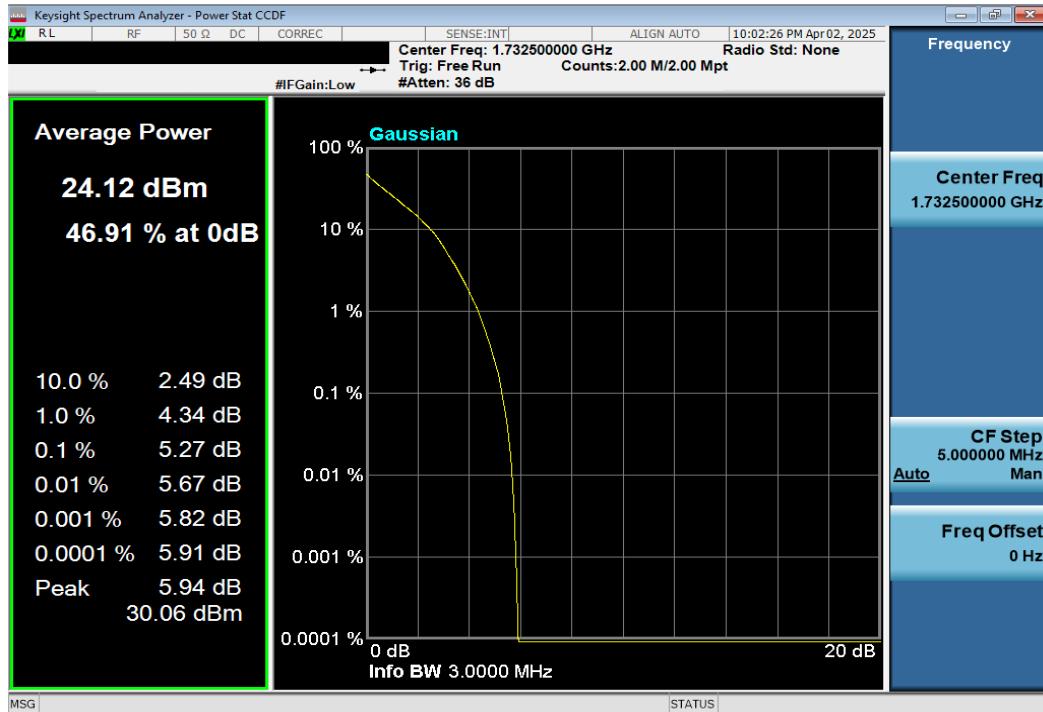


Plot 7-254. PAR Plot (LTE Band 4 - 1.4MHz QPSK - Full RB)

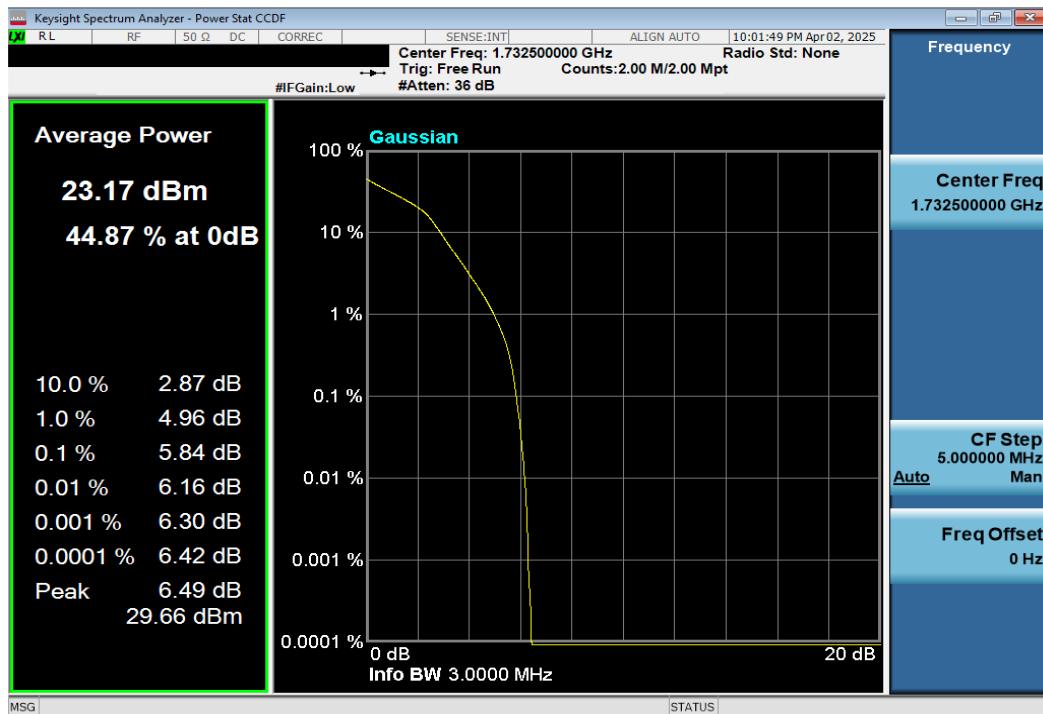


Plot 7-255. PAR Plot (LTE Band 4 - 1.4MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 154 of 202	

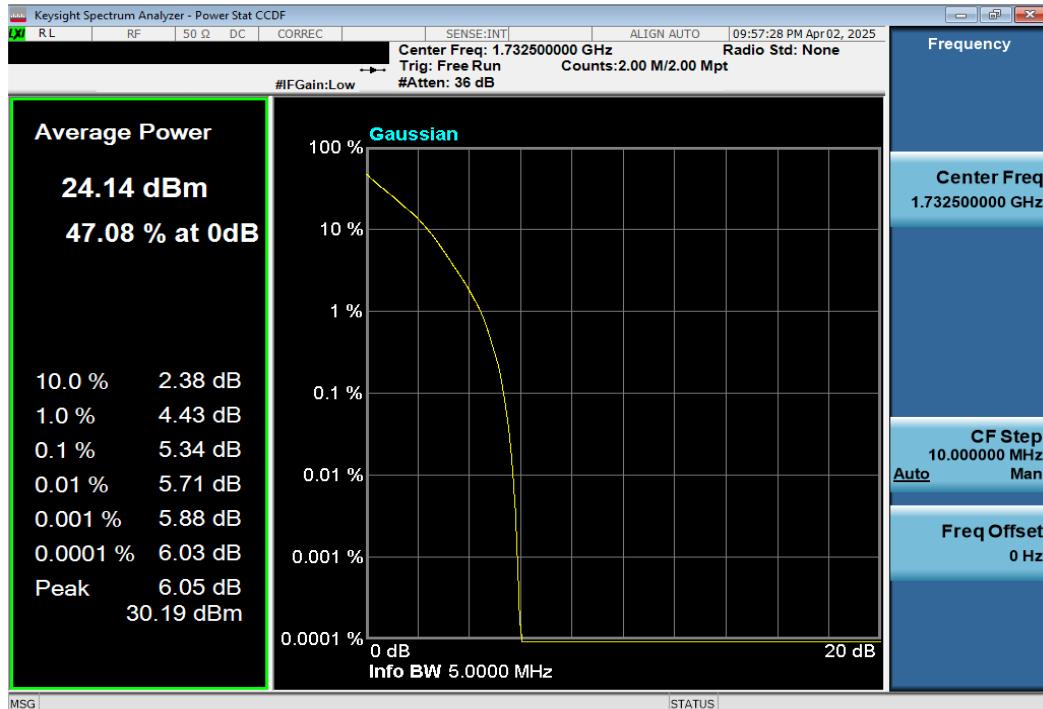


Plot 7-256. PAR Plot (LTE Band 4 - 3MHz QPSK - Full RB)

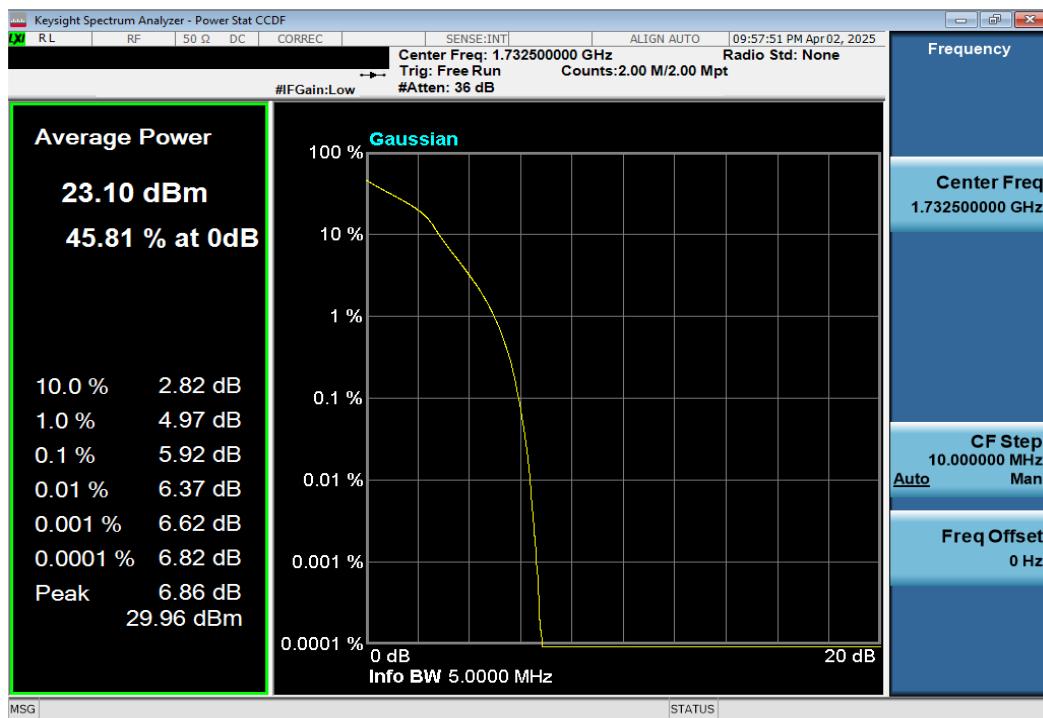


Plot 7-257. PAR Plot (LTE Band 4 - 3MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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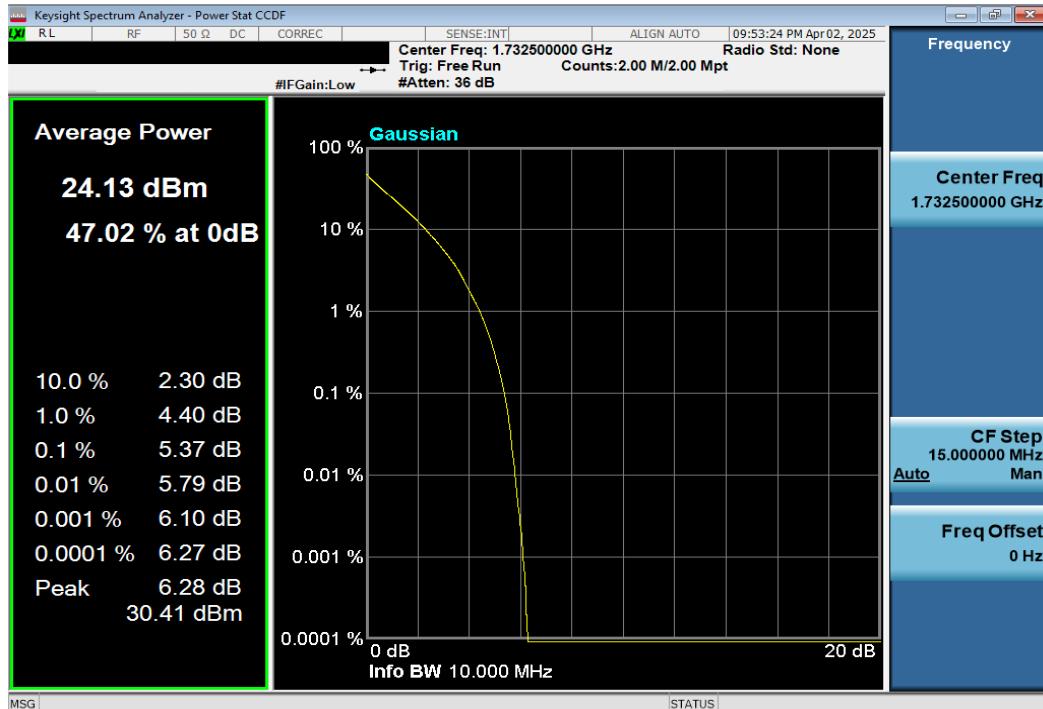


Plot 7-258. PAR Plot (LTE Band 4 - 5MHz QPSK - Full RB)

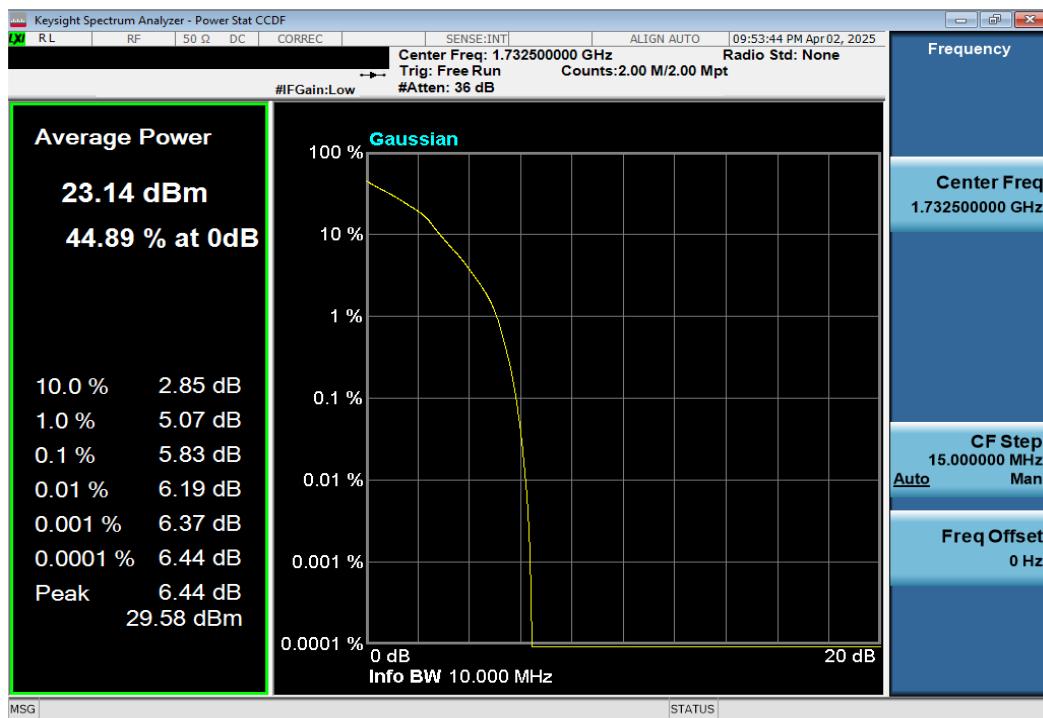


Plot 7-259. PAR Plot (LTE Band 4 - 5MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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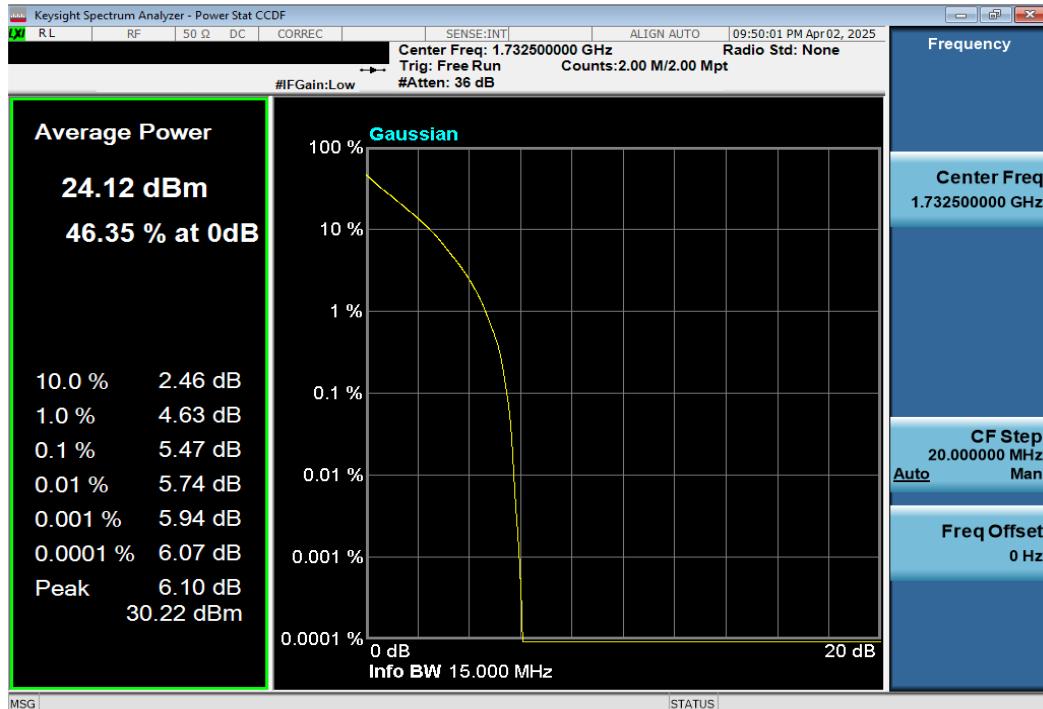


Plot 7-260. PAR Plot (LTE Band 4 - 10MHz QPSK - Full RB)

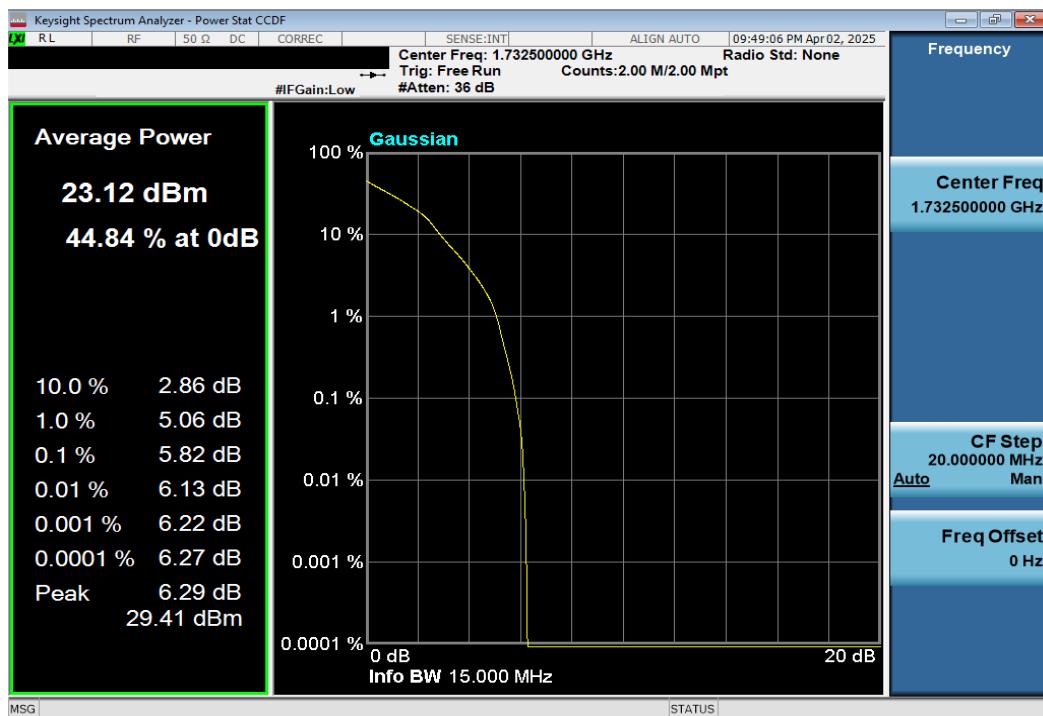


Plot 7-261. PAR Plot (LTE Band 4 - 10MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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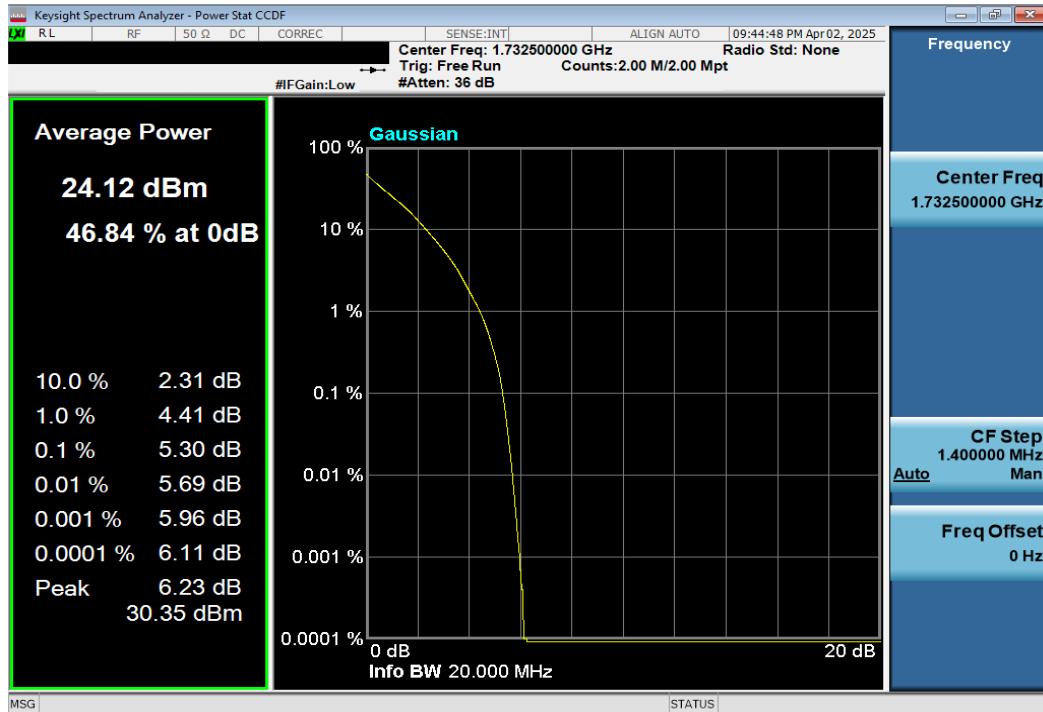


Plot 7-262. PAR Plot (LTE Band 4 - 15MHz QPSK - Full RB)

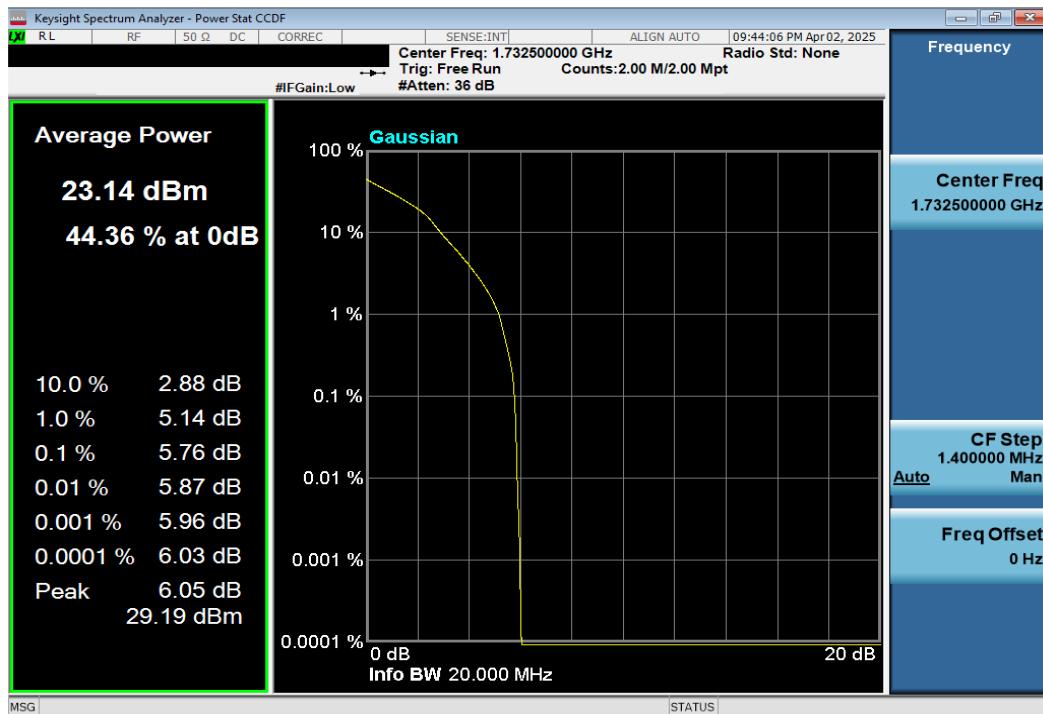


Plot 7-263. PAR Plot (LTE Band 4 - 15MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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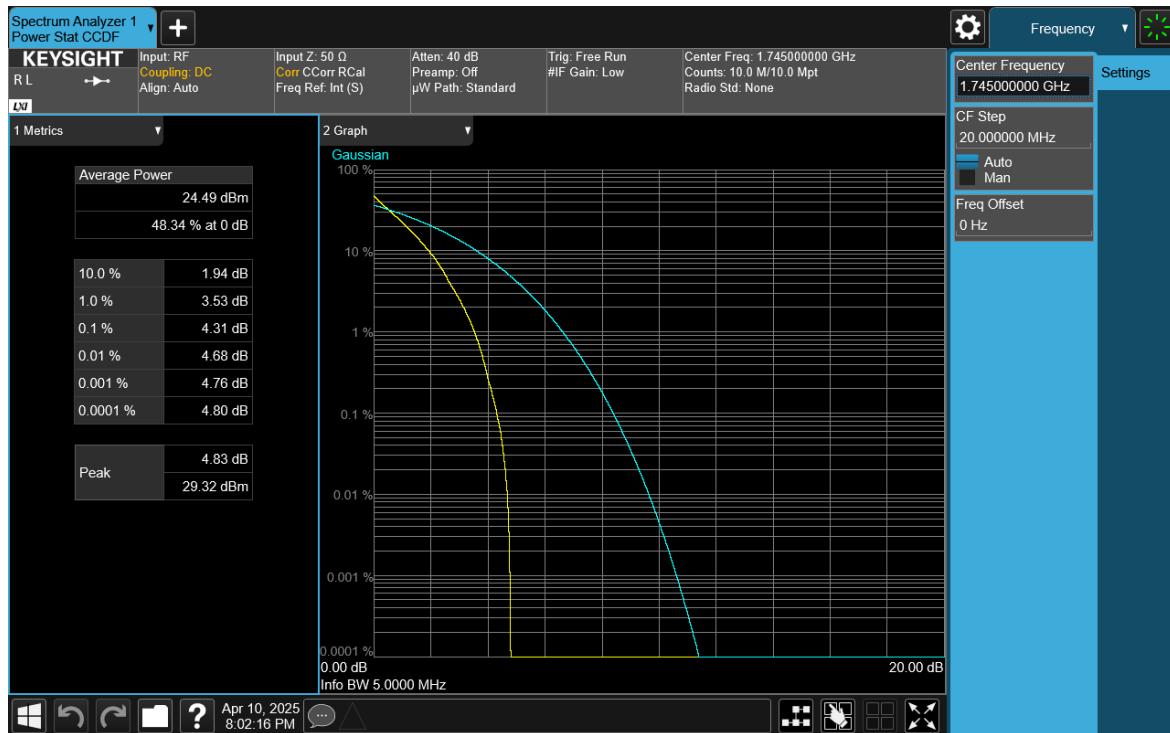
Plot 7-264. PAR Plot (LTE Band 4 - 20MHz QPSK - Full RB)



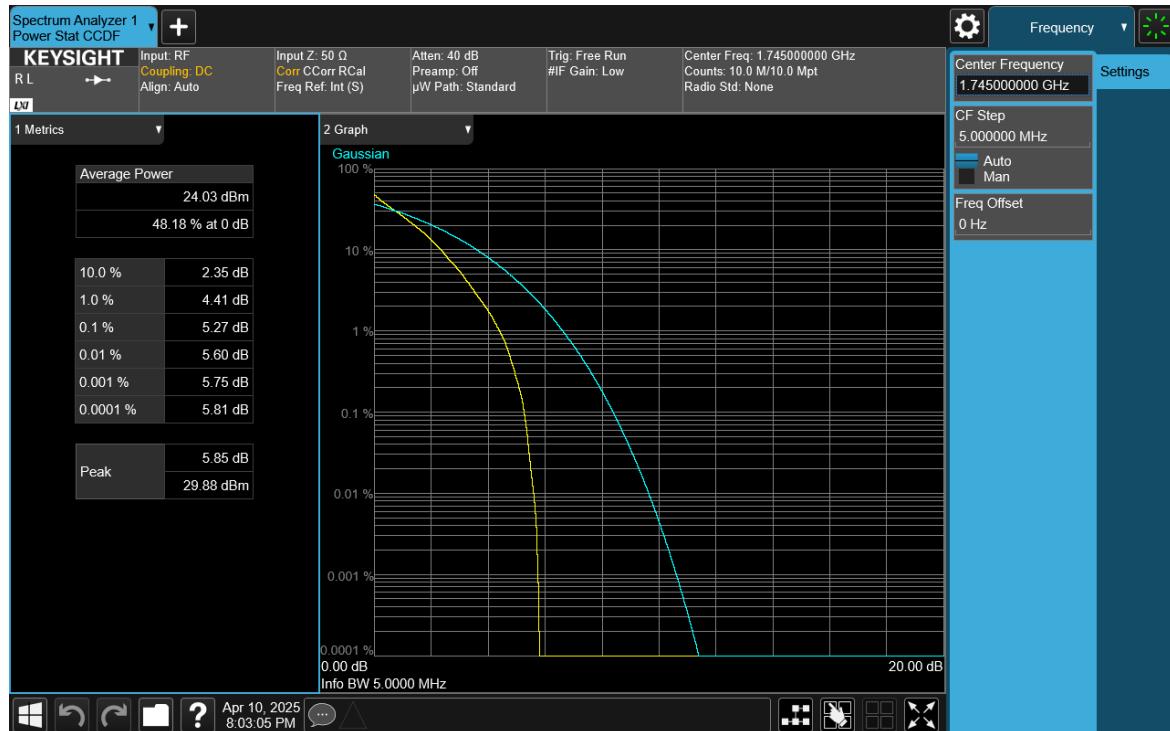
Plot 7-265. PAR Plot (LTE Band 4 - 20MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66

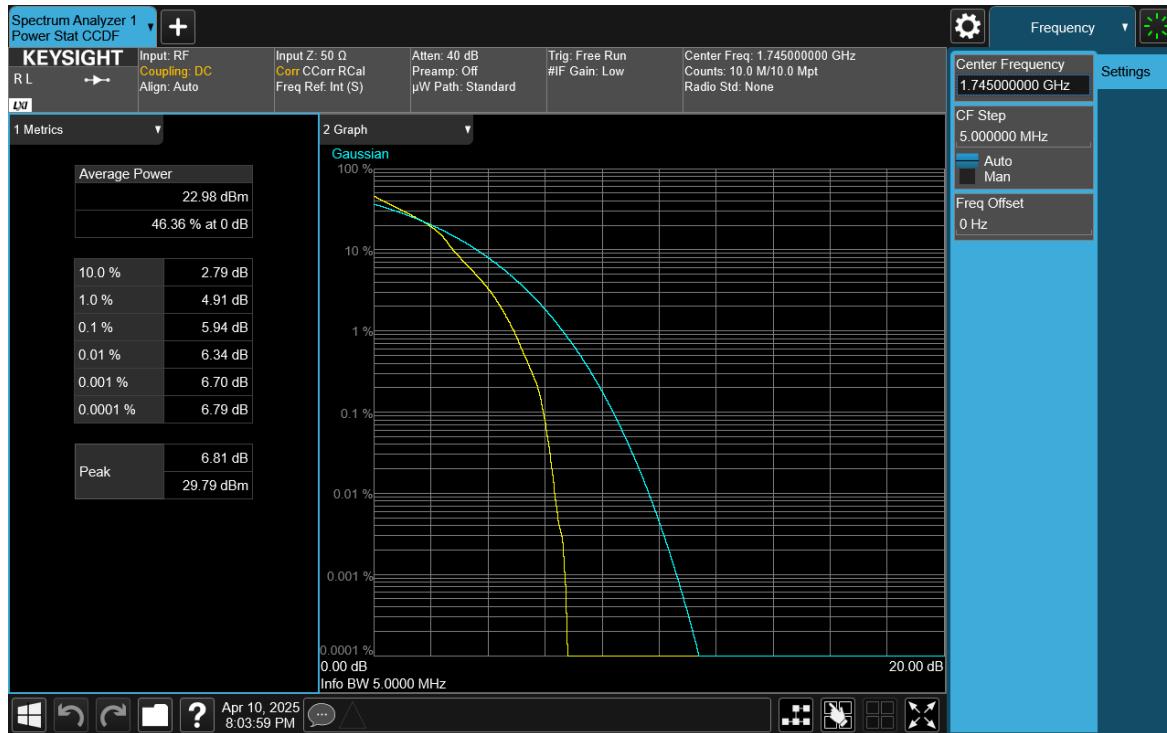


Plot 7-266. PAR Plot (NR Band n66 - 5MHz DFT-s-OFDM π/2 BPSK - Full RB)

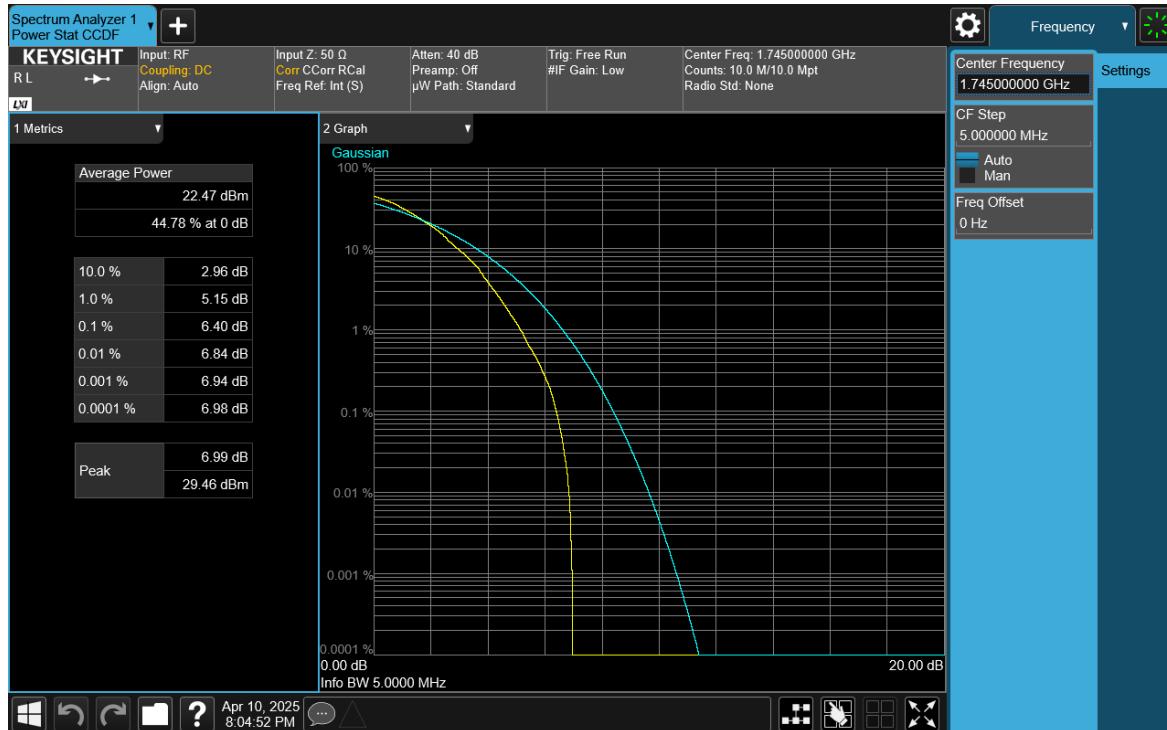


Plot 7-267. PAR Plot (NR Band n66 - 5MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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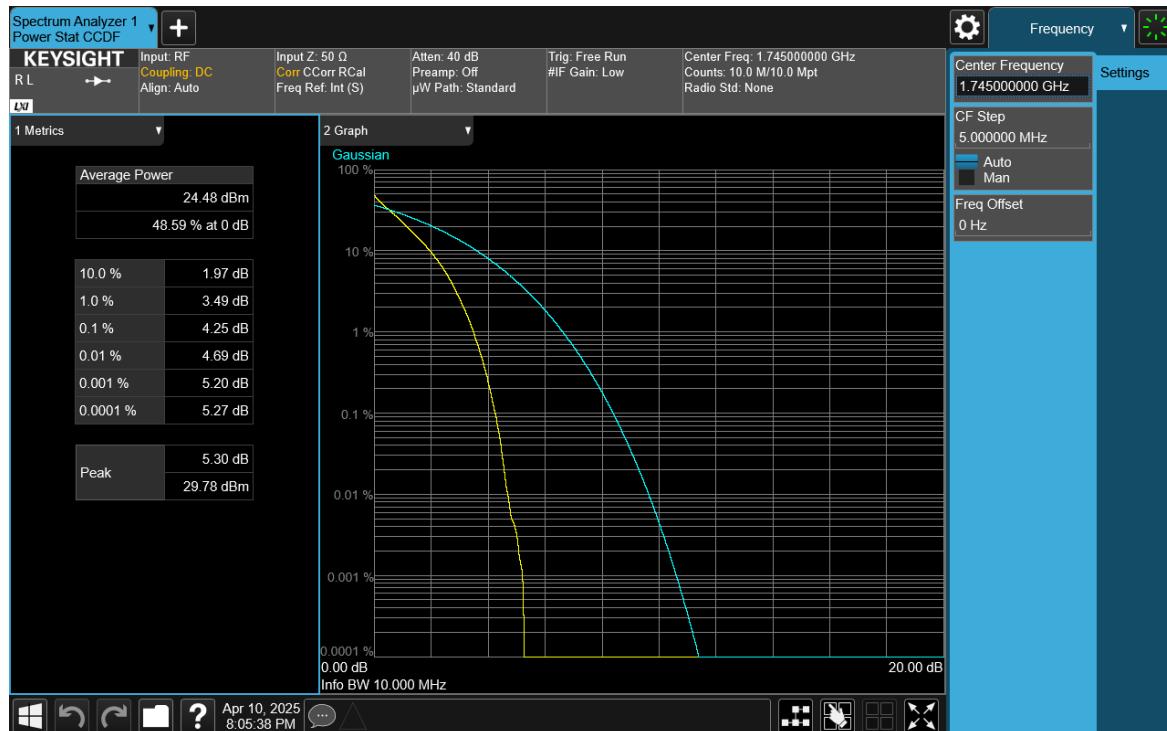


Plot 7-268. PAR Plot (NR Band n66 - 5MHz DFT-s-OFDM 16-QAM - Full RB)

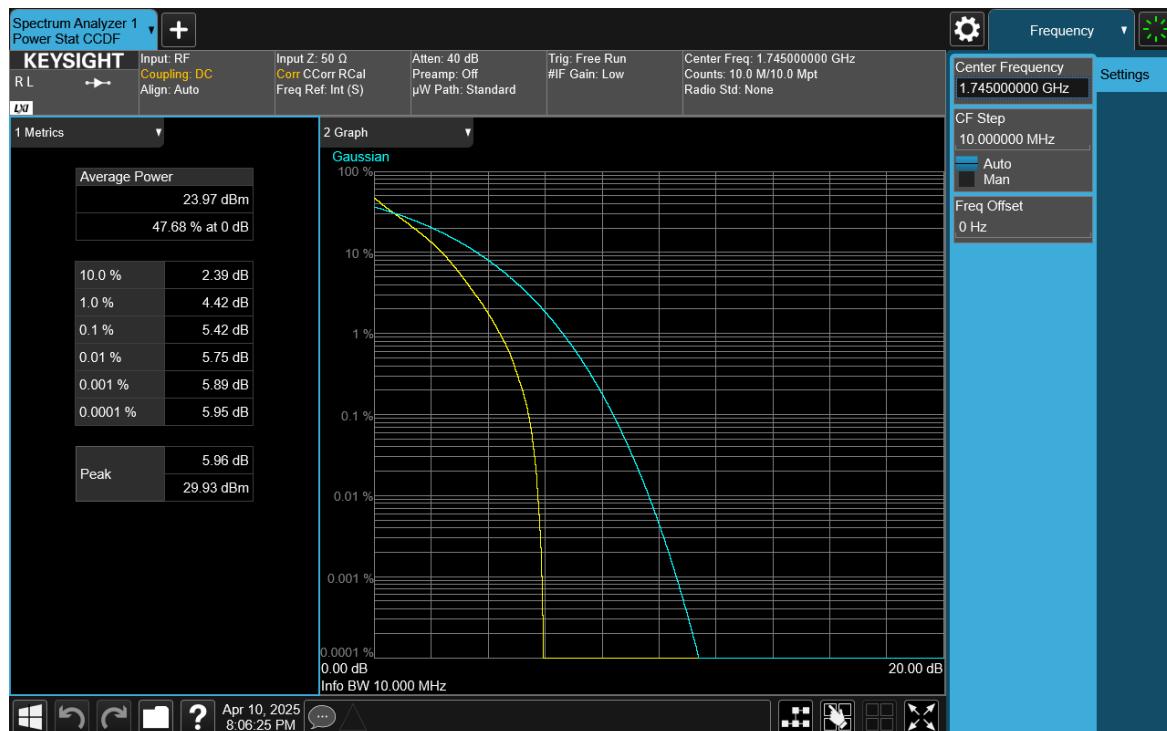


Plot 7-269. PAR Plot (NR Band n66 - 5MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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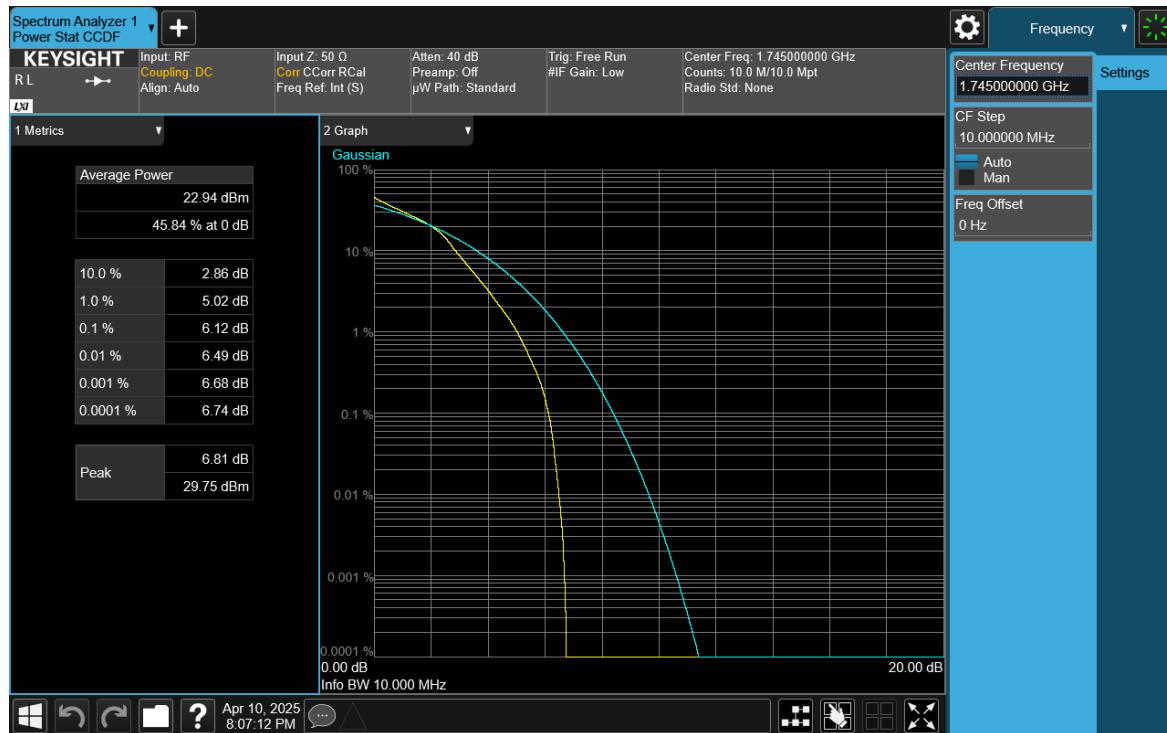


Plot 7-270. PAR Plot (NR Band n66 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

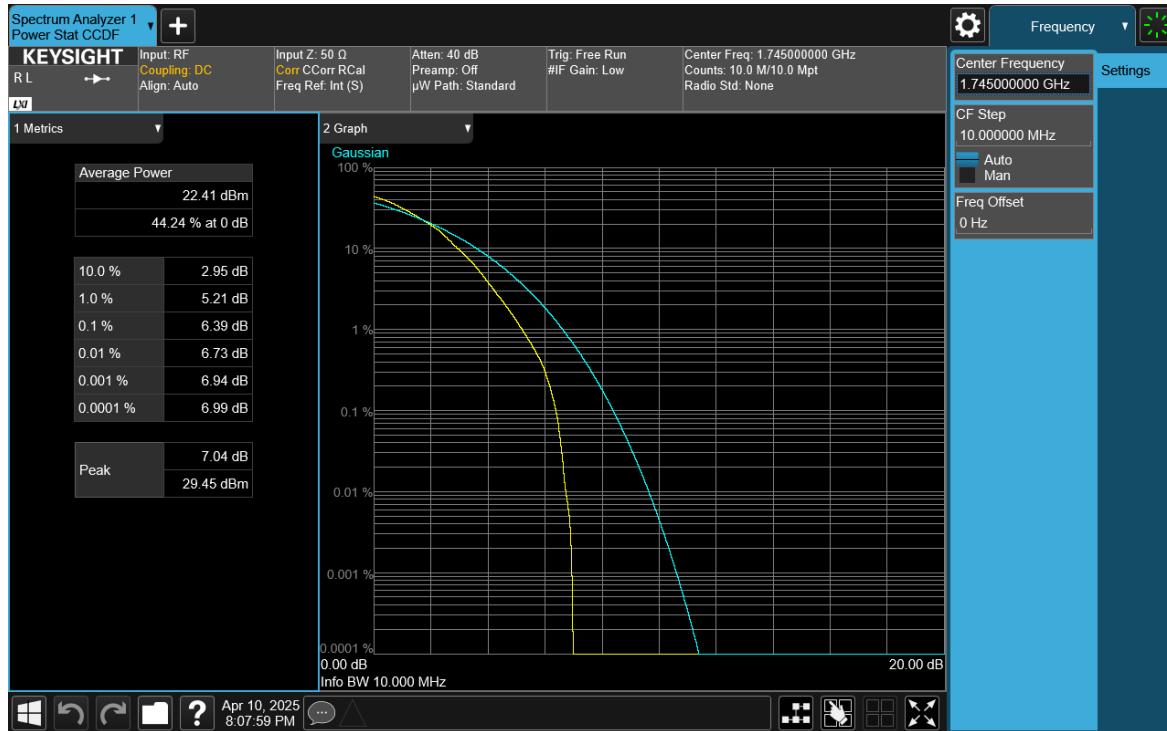


Plot 7-271. PAR Plot (NR Band n66 - 10MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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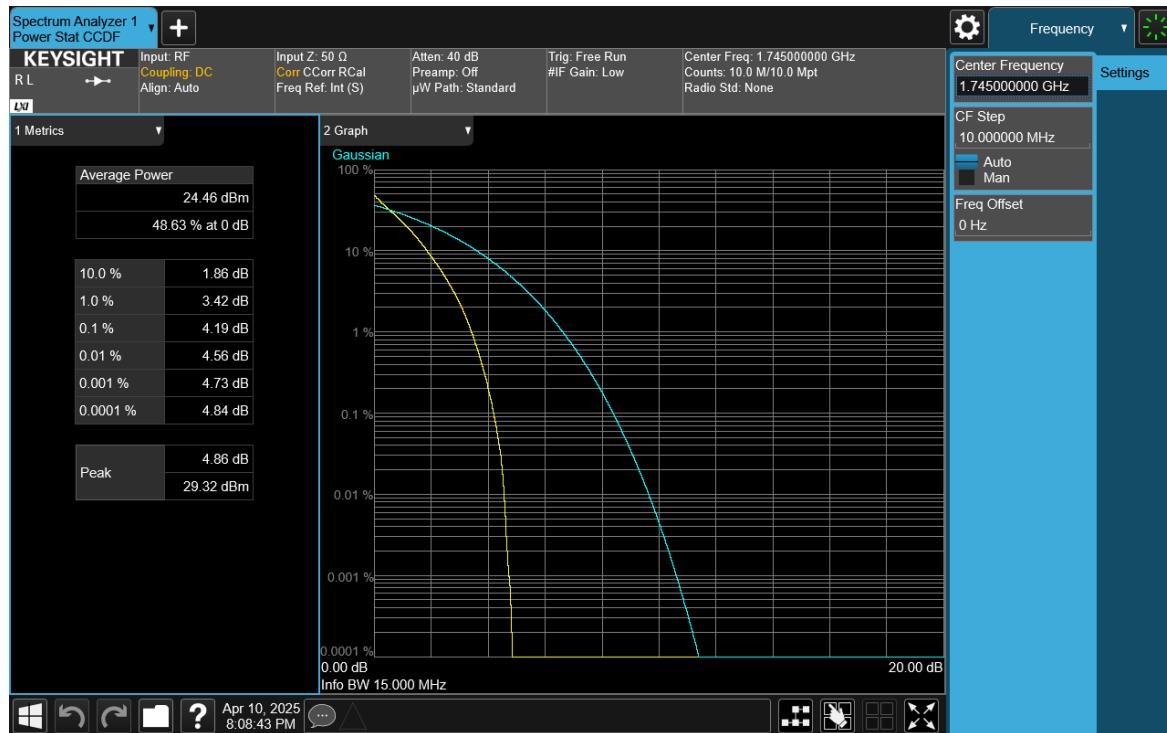


Plot 7-272. PAR Plot (NR Band n66 - 10MHz DFT-s-OFDM 16-QAM - Full RB)

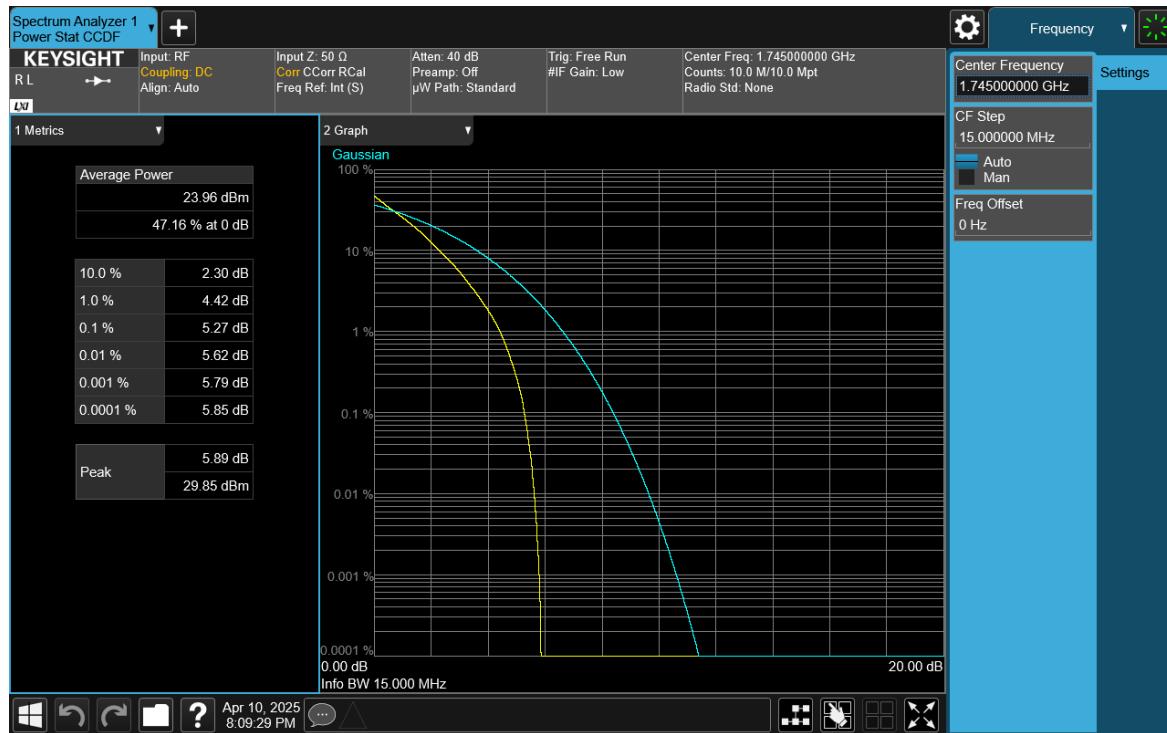


Plot 7-273. PAR Plot (NR Band n66 - 10MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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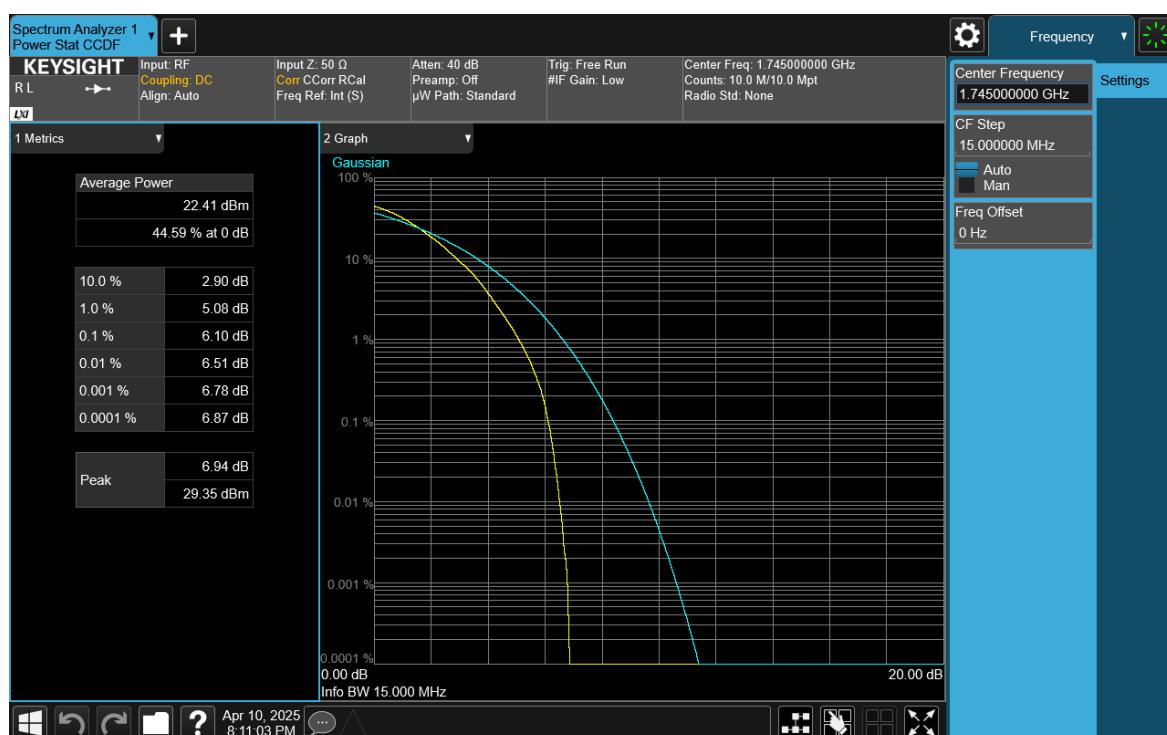
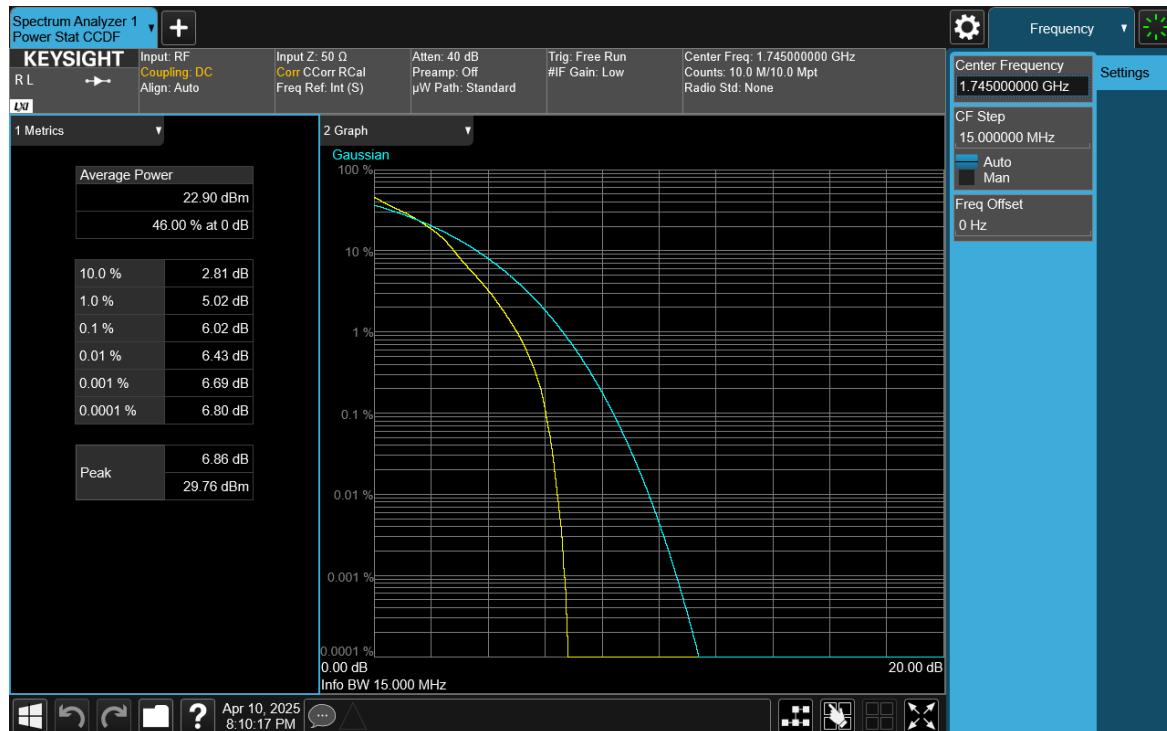


Plot 7-274. PAR Plot (NR Band n66 - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

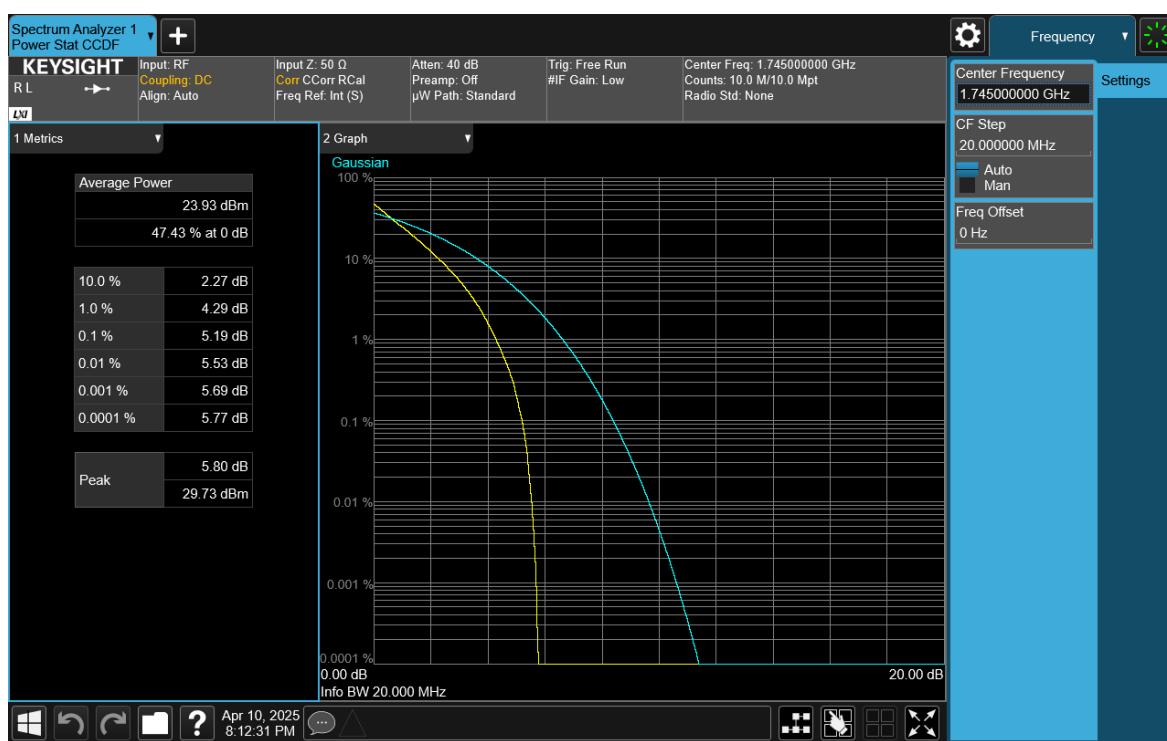
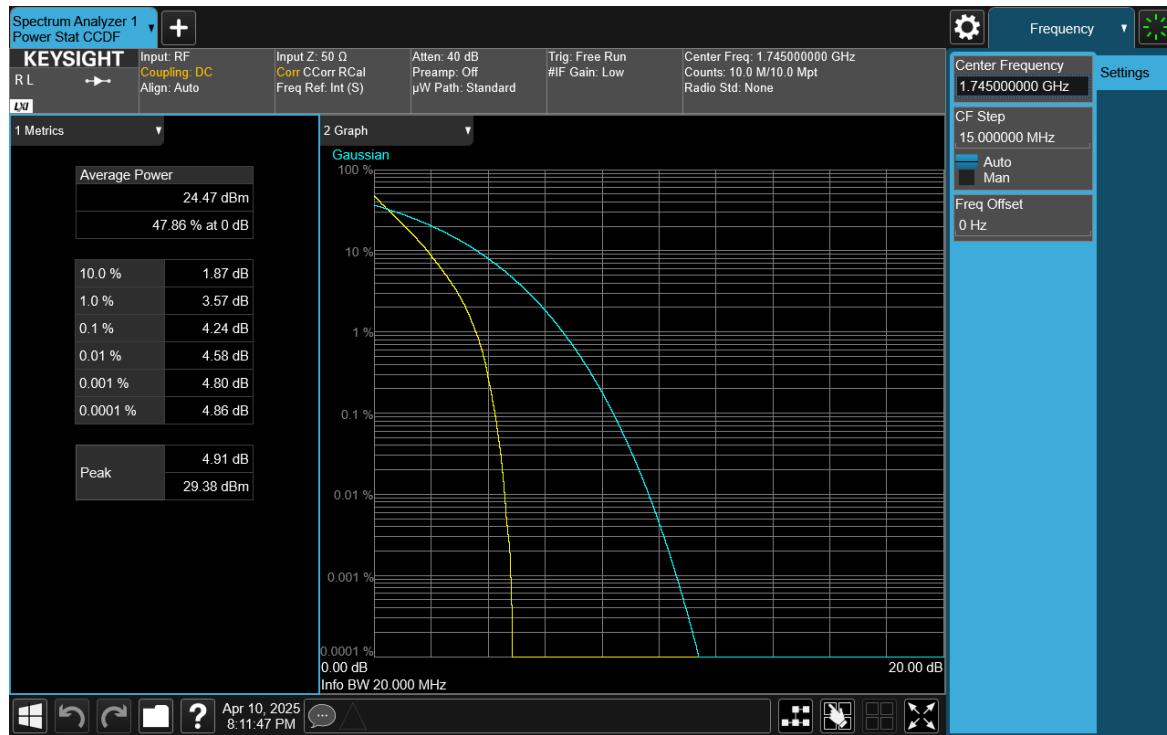


Plot 7-275. PAR Plot (NR Band n66 - 15MHz DFT-s-OFDM QPSK - Full RB)

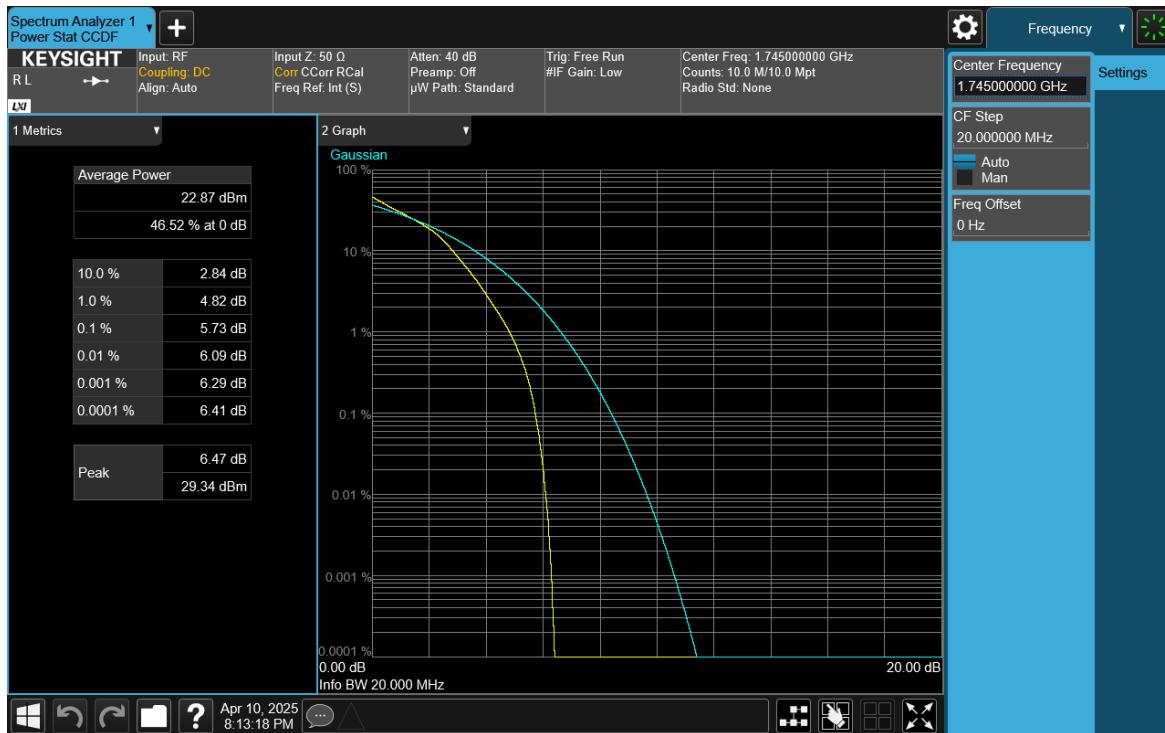
FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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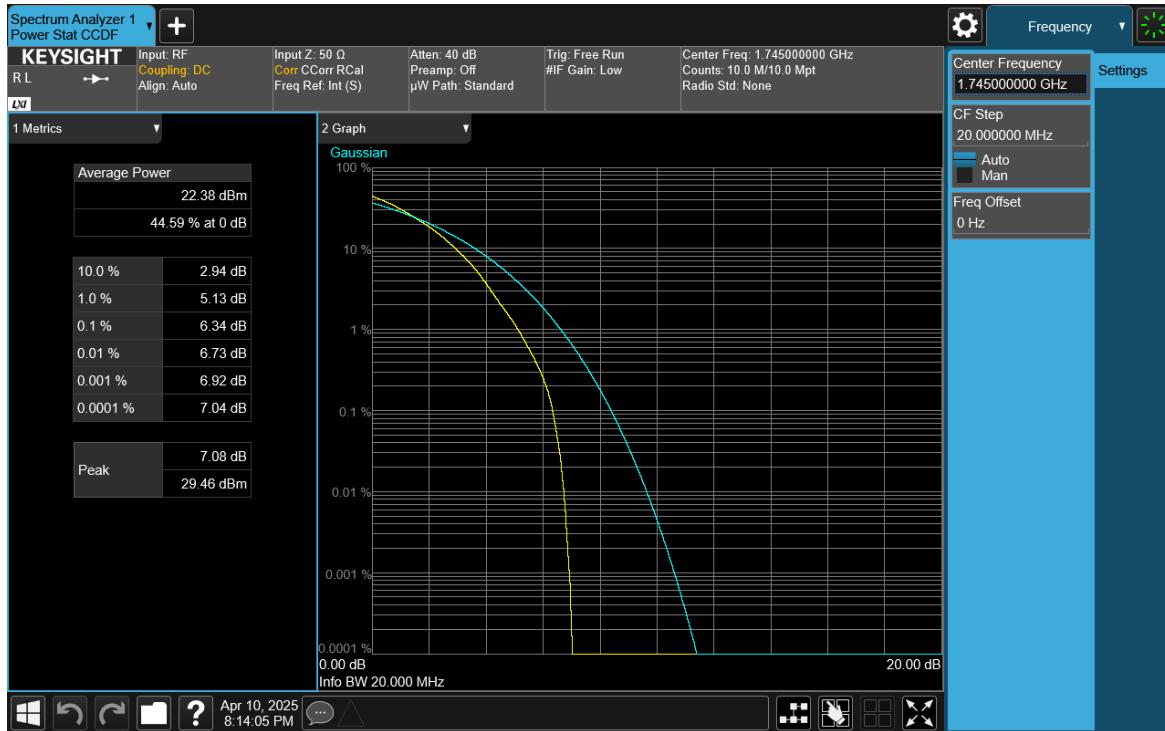
FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-280. PAR Plot (NR Band n66 - 20MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-281. PAR Plot (NR Band n66 - 20MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCG-A3335	e element		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 167 of 202	

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.

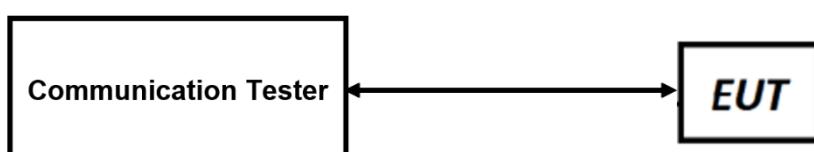


Figure 7-9. LTE ERP/EIRP Measurement Setup

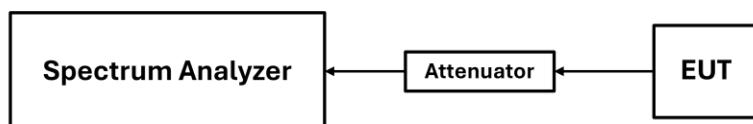


Figure 7-10. FR1 ERP/EIRP Measurement Setup

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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.

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.1 Antenna FCM – EIRP/ERP

LTE Band 66

Bandwidth	Modulation	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	-12.70	1 / 5	25.13	12.43	17.498	30.00	-17.57
		1745.0	-12.70	1 / 0	25.20	12.50	17.783	30.00	-17.50
		1779.3	-12.70	1 / 5	25.18	12.48	17.701	30.00	-17.52
	16-QAM	1779.3	-12.70	1 / 3	24.21	11.51	14.158	30.00	-18.49
3 MHz	QPSK	1711.5	-12.70	1 / 14	25.20	12.50	17.783	30.00	-17.50
		1745.0	-12.70	1 / 0	25.04	12.34	17.140	30.00	-17.66
		1778.5	-12.70	1 / 7	25.12	12.42	17.458	30.00	-17.58
	16-QAM	1778.5	-12.70	1 / 14	24.22	11.52	14.191	30.00	-18.48
5 MHz	QPSK	1712.5	-12.70	1 / 24	24.99	12.29	16.943	30.00	-17.71
		1745.0	-12.70	1 / 12	25.11	12.41	17.418	30.00	-17.59
		1777.5	-12.70	1 / 0	25.20	12.50	17.783	30.00	-17.50
	16-QAM	1777.5	-12.70	1 / 0	24.17	11.47	14.028	30.00	-18.53
10 MHz	QPSK	1715.0	-12.70	1 / 49	25.13	12.43	17.498	30.00	-17.57
		1745.0	-12.70	1 / 0	25.14	12.44	17.539	30.00	-17.56
		1775.0	-12.70	1 / 0	25.20	12.50	17.783	30.00	-17.50
	16-QAM	1745.0	-12.70	1 / 0	24.13	11.43	13.900	30.00	-18.57
15 MHz	QPSK	1717.5	-12.70	1 / 0	24.99	12.29	16.943	30.00	-17.71
		1745.0	-12.70	1 / 37	25.13	12.43	17.498	30.00	-17.57
		1772.5	-12.70	1 / 74	25.11	12.41	17.418	30.00	-17.59
	16-QAM	1745.0	-12.70	1 / 37	24.26	11.56	14.322	30.00	-18.44
20 MHz	QPSK	1720.0	-12.70	1 / 99	25.18	12.48	17.701	30.00	-17.52
		1745.0	-12.70	1 / 0	25.20	12.50	17.783	30.00	-17.50
		1770.0	-12.70	1 / 99	24.86	12.16	16.444	30.00	-17.84
	16-QAM	1745.0	-12.70	1 / 0	24.10	11.40	13.804	30.00	-18.60

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

FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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LTE Band 4

Bandwidth	Modulation	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	-12.70	1 / 3	25.12	12.42	17.458	30.00	-17.58
		1732.5	-12.70	1 / 5	25.20	12.50	17.783	30.00	-17.50
		1754.3	-12.70	1 / 0	25.04	12.34	17.140	30.00	-17.66
	16-QAM	1754.3	-12.70	1 / 3	24.22	11.52	14.191	30.00	-18.48
3 MHz	QPSK	1711.5	-12.70	1 / 7	25.16	12.46	17.620	30.00	-17.54
		1732.5	-12.70	1 / 0	25.20	12.50	17.783	30.00	-17.50
		1753.5	-12.70	1 / 14	25.16	12.46	17.620	30.00	-17.54
	16-QAM	1753.5	-12.70	1 / 14	24.15	11.45	13.964	30.00	-18.55
5 MHz	QPSK	1712.5	-12.70	1 / 12	25.20	12.50	17.783	30.00	-17.50
		1732.5	-12.70	1 / 0	25.15	12.45	17.579	30.00	-17.55
		1752.5	-12.70	1 / 24	25.09	12.39	17.338	30.00	-17.61
	16-QAM	1712.5	-12.70	1 / 12	24.22	11.52	14.191	30.00	-18.48
10 MHz	QPSK	1715.0	-12.70	1 / 0	25.16	12.46	17.620	30.00	-17.54
		1732.5	-12.70	1 / 25	25.20	12.50	17.783	30.00	-17.50
		1750.0	-12.70	1 / 49	25.09	12.39	17.338	30.00	-17.61
	16-QAM	1715.0	-12.70	1 / 0	24.20	11.50	14.125	30.00	-18.50
15 MHz	QPSK	1717.5	-12.70	1 / 0	25.20	12.50	17.783	30.00	-17.50
		1732.5	-12.70	1 / 0	25.15	12.45	17.579	30.00	-17.55
		1747.5	-12.70	1 / 74	25.11	12.41	17.418	30.00	-17.59
	16-QAM	1732.5	-12.70	1 / 0	24.11	11.41	13.836	30.00	-18.59
20 MHz	QPSK	1720.0	-12.70	1 / 0	25.15	12.45	17.579	30.00	-17.55
		1732.5	-12.70	1 / 99	24.90	12.20	16.596	30.00	-17.80
		1745.0	-12.70	1 / 50	25.14	12.44	17.539	30.00	-17.56
	16-QAM	1732.5	-12.70	1 / 50	24.19	11.49	14.093	30.00	-18.51

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

FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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LTE Band 71

Bandwidth	Modulation	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	-29.70	1 / 24	25.35	-6.50	0.224	34.77	-41.27
		680.5	-29.70	1 / 24	25.60	-6.25	0.237	34.77	-41.02
		695.5	-29.70	1 / 12	25.49	-6.36	0.231	34.77	-41.13
	16-QAM	665.5	-29.70	1 / 0	24.70	-7.15	0.193	34.77	-41.92
10 MHz	QPSK	668.0	-29.70	1 / 49	25.59	-6.26	0.237	34.77	-41.03
		680.5	-29.70	1 / 49	25.55	-6.30	0.234	34.77	-41.07
		693.0	-29.70	1 / 0	25.49	-6.36	0.231	34.77	-41.13
	16-QAM	680.5	-29.70	1 / 25	24.69	-7.16	0.192	34.77	-41.93
15 MHz	QPSK	670.5	-29.70	1 / 74	25.69	-6.16	0.242	34.77	-40.93
		680.5	-29.70	1 / 74	25.66	-6.19	0.240	34.77	-40.96
		690.5	-29.70	1 / 0	25.60	-6.25	0.237	34.77	-41.02
	16-QAM	680.5	-29.70	1 / 74	24.63	-7.22	0.190	34.77	-41.99
20 MHz	QPSK	673.0	-29.70	1 / 99	25.68	-6.17	0.242	34.77	-40.94
		680.5	-29.70	1 / 50	25.56	-6.29	0.235	34.77	-41.06
		688.0	-29.70	1 / 0	25.70	-6.15	0.243	34.77	-40.92
	16-QAM	688.0	-29.70	1 / 0	24.60	-7.25	0.188	34.77	-42.02

Table 7-4. Antenna BCM ERP Data LTE Band 71

LTE Band 12

Bandwidth	Modulation	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	-29.50	1 / 0	25.56	-6.09	0.246	34.77	-40.86
		707.5	-29.50	1 / 0	25.70	-5.95	0.254	34.77	-40.72
		715.3	-29.50	1 / 5	25.61	-6.04	0.249	34.77	-40.81
	16-QAM	707.5	-29.50	1 / 5	24.69	-6.96	0.201	34.77	-41.73
3 MHz	QPSK	700.5	-29.50	1 / 14	25.70	-5.95	0.254	34.77	-40.72
		707.5	-29.50	1 / 0	25.38	-6.27	0.236	34.77	-41.04
		714.5	-29.50	1 / 14	25.70	-5.95	0.254	34.77	-40.72
	16-QAM	714.5	-29.50	1 / 0	24.53	-7.12	0.194	34.77	-41.89
5 MHz	QPSK	701.5	-29.50	1 / 24	25.50	-6.15	0.243	34.77	-40.92
		707.5	-29.50	1 / 12	25.68	-5.97	0.253	34.77	-40.74
		713.5	-29.50	1 / 12	25.70	-5.95	0.254	34.77	-40.72
	16-QAM	713.5	-29.50	1 / 24	24.72	-6.93	0.203	34.77	-41.70
10 MHz	QPSK	704.0	-29.50	1 / 49	25.63	-6.02	0.250	34.77	-40.79
		707.5	-29.50	1 / 49	25.70	-5.95	0.254	34.77	-40.72
		711.0	-29.50	1 / 25	25.51	-6.14	0.243	34.77	-40.91
	16-QAM	707.5	-29.50	1 / 0	24.71	-6.94	0.202	34.77	-41.71

Table 7-5. Antenna BCM ERP Data LTE Band 12

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
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LTE Band 17

Bandwidth	Modulation	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	-29.50	1 / 24	25.42	-6.23	0.238	34.77	-41.00
		710.0	-29.50	1 / 24	25.48	-6.17	0.242	34.77	-40.94
		713.5	-29.50	1 / 0	25.43	-6.22	0.239	34.77	-40.99
10 MHz	16-QAM	706.5	-29.50	1 / 0	24.70	-6.95	0.202	34.77	-41.72
		709.0	-29.50	1 / 0	25.38	-6.27	0.236	34.77	-41.04
		710.0	-29.50	1 / 49	25.64	-6.01	0.251	34.77	-40.78
10 MHz	QPSK	711.0	-29.50	1 / 49	25.70	-5.95	0.254	34.77	-40.72
		710.0	-29.50	1 / 49	24.64	-7.01	0.199	34.77	-41.78

Table 7-6. Antenna BCM ERP Data LTE Band 17

LTE Band 13

Bandwidth	Modulation	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	-27.80	1 / 0	25.52	-4.43	0.361	34.77	-39.20
		782.0	-27.80	1 / 12	25.41	-4.54	0.352	34.77	-39.31
		784.5	-27.80	1 / 0	25.70	-4.25	0.376	34.77	-39.02
10 MHz	16-QAM	782.0	-27.80	1 / 24	24.59	-5.36	0.291	34.77	-40.13
		782.0	-27.80	1 / 49	25.58	-4.37	0.366	34.77	-39.14
		782.0	-27.80	1 / 49	24.73	-5.22	0.301	34.77	-39.99

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

FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
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NR Band n66

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]	
5 MHz	π/2 BPSK	1712.5	-12.70	1 / 12	25.10	12.40	17.378	30.00	-17.60	
		1745.0	-12.70	1 / 12	25.06	12.36	17.219	30.00	-17.64	
		1777.5	-12.70	1 / 24	25.01	12.31	17.022	30.00	-17.69	
	QPSK	1712.5	-12.70	1 / 24	25.06	12.36	17.219	30.00	-17.64	
		1745.0	-12.70	1 / 12	25.20	12.50	17.783	30.00	-17.50	
		1777.5	-12.70	1 / 24	25.12	12.42	17.458	30.00	-17.58	
	16-QAM	1712.5	-12.70	1 / 12	24.11	11.41	13.836	30.00	-18.59	
	64-QAM	1712.5	-12.70	1 / 0	23.21	10.51	11.246	30.00	-19.49	
	π/2 BPSK	1715.0	-12.70	1 / 25	25.07	12.37	17.258	30.00	-17.63	
		1745.0	-12.70	1 / 25	25.17	12.47	17.660	30.00	-17.53	
		1775.0	-12.70	1 / 49	25.18	12.48	17.701	30.00	-17.52	
10 MHz	QPSK	1715.0	-12.70	1 / 49	25.04	12.34	17.140	30.00	-17.66	
		1745.0	-12.70	1 / 25	25.20	12.50	17.783	30.00	-17.50	
		1775.0	-12.70	1 / 25	25.14	12.44	17.539	30.00	-17.56	
	16-QAM	1775.0	-12.70	1 / 49	24.19	11.49	14.093	30.00	-18.51	
	64-QAM	1775.0	-12.70	1 / 0	23.16	10.46	11.117	30.00	-19.54	
	π/2 BPSK	1717.5	-12.70	1 / 0	25.18	12.48	17.701	30.00	-17.52	
15 MHz		1745.0	-12.70	1 / 0	25.10	12.40	17.378	30.00	-17.60	
		1772.5	-12.70	1 / 37	25.00	12.30	16.982	30.00	-17.70	
QPSK	1717.5	-12.70	1 / 74	25.20	12.50	17.783	30.00	-17.50		
	1745.0	-12.70	1 / 74	25.17	12.47	17.660	30.00	-17.53		
	1772.5	-12.70	1 / 37	24.98	12.28	16.904	30.00	-17.72		
16-QAM	1745.0	-12.70	1 / 0	24.23	11.53	14.223	30.00	-18.47		
20 MHz	64-QAM	1772.5	-12.70	1 / 0	23.21	10.51	11.246	30.00	-19.49	
	π/2 BPSK	1720.0	-12.70	1 / 99	25.20	12.50	17.783	30.00	-17.50	
		1745.0	-12.70	1 / 0	24.97	12.27	16.866	30.00	-17.73	
		1770.0	-12.70	1 / 99	25.17	12.47	17.660	30.00	-17.53	
	QPSK	1720.0	-12.70	1 / 0	24.99	12.29	16.943	30.00	-17.71	
		1745.0	-12.70	1 / 99	25.14	12.44	17.539	30.00	-17.56	
		1770.0	-12.70	1 / 99	24.80	12.10	16.218	30.00	-17.90	
	16-QAM	1720.0	-12.70	1 / 50	24.16	11.46	13.996	30.00	-18.54	
	64-QAM	1720.0	-12.70	1 / 0	23.17	10.47	11.143	30.00	-19.53	

Table 7-8. Antenna FCM EIRP Data NR Band n66

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch			

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NR Band n71

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]	
5 MHz	π/2 BPSK	665.5	-29.70	1 / 24	25.59	-6.26	0.237	34.77	-41.03	
		680.5	-29.70	1 / 0	25.55	-6.30	0.234	34.77	-41.07	
		695.5	-29.70	1 / 12	25.70	-6.15	0.243	34.77	-40.92	
	QPSK	665.5	-29.70	1 / 24	25.65	-6.20	0.240	34.77	-40.97	
		680.5	-29.70	1 / 12	25.69	-6.16	0.242	34.77	-40.93	
		695.5	-29.70	1 / 0	25.47	-6.38	0.230	34.77	-41.15	
		16-QAM	680.5	-29.70	1 / 0	24.65	-7.20	0.191	34.77	-41.97
		64-QAM	665.5	-29.70	1 / 24	23.73	-8.12	0.154	34.77	-42.89
	π/2 BPSK	668.0	-29.70	1 / 25	25.66	-6.19	0.240	34.77	-40.96	
		680.5	-29.70	1 / 25	25.63	-6.22	0.239	34.77	-40.99	
		693.0	-29.70	1 / 25	25.61	-6.24	0.238	34.77	-41.01	
10 MHz	QPSK	668.0	-29.70	1 / 25	25.62	-6.23	0.238	34.77	-41.00	
		680.5	-29.70	1 / 49	25.70	-6.15	0.243	34.77	-40.92	
		693.0	-29.70	1 / 49	25.70	-6.15	0.243	34.77	-40.92	
	16-QAM	680.5	-29.70	1 / 49	24.67	-7.18	0.191	34.77	-41.95	
		668.0	-29.70	1 / 49	23.70	-8.15	0.153	34.77	-42.92	
		670.5	-29.70	1 / 0	25.70	-6.15	0.243	34.77	-40.92	
15 MHz	π/2 BPSK	680.5	-29.70	1 / 37	25.58	-6.27	0.236	34.77	-41.04	
		690.5	-29.70	1 / 74	25.70	-6.15	0.243	34.77	-40.92	
		670.5	-29.70	1 / 74	25.59	-6.26	0.237	34.77	-41.03	
	QPSK	680.5	-29.70	1 / 74	25.45	-6.40	0.229	34.77	-41.17	
		690.5	-29.70	1 / 0	25.58	-6.27	0.236	34.77	-41.04	
		16-QAM	680.5	-29.70	1 / 0	24.72	-7.13	0.194	34.77	-41.90
	64-QAM	680.5	-29.70	1 / 0	23.59	-8.26	0.149	34.77	-43.03	
		670.5	-29.70	1 / 0	25.70	-6.15	0.243	34.77	-40.92	
20 MHz	π/2 BPSK	673.0	-29.70	1 / 99	25.48	-6.37	0.231	34.77	-41.14	
		680.5	-29.70	1 / 99	25.56	-6.29	0.235	34.77	-41.06	
		688.0	-29.70	1 / 50	25.32	-6.53	0.222	34.77	-41.30	
	QPSK	673.0	-29.70	1 / 0	25.70	-6.15	0.243	34.77	-40.92	
		680.5	-29.70	1 / 50	25.55	-6.30	0.234	34.77	-41.07	
		688.0	-29.70	1 / 0	25.63	-6.22	0.239	34.77	-40.99	
	16-QAM	673.0	-29.70	1 / 99	24.68	-7.17	0.192	34.77	-41.94	
		680.5	-29.70	1 / 50	23.72	-8.13	0.154	34.77	-42.90	

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

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch				

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NR Band n12

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	701.5	-29.50	1 / 1	25.45	-6.20	0.240	34.77	-40.97
		707.5	-29.50	1 / 23	25.65	-6.00	0.251	34.77	-40.77
		713.5	-29.50	1 / 12	25.70	-5.95	0.254	34.77	-40.72
	QPSK	701.5	-29.50	1 / 23	25.55	-6.10	0.245	34.77	-40.87
		707.5	-29.50	1 / 23	25.67	-5.98	0.252	34.77	-40.75
		713.5	-29.50	1 / 12	25.66	-5.99	0.252	34.77	-40.76
	16-QAM	701.5	-29.50	1 / 1	24.67	-6.98	0.200	34.77	-41.75
		707.5	-29.50	1 / 1	23.71	-7.94	0.161	34.77	-42.71
10 MHz	π/2 BPSK	704.0	-29.50	1 / 26	25.70	-5.95	0.254	34.77	-40.72
		707.5	-29.50	1 / 50	25.54	-6.11	0.245	34.77	-40.88
		711.0	-29.50	1 / 26	25.62	-6.03	0.249	34.77	-40.80
	QPSK	704.0	-29.50	1 / 1	25.68	-5.97	0.253	34.77	-40.74
		707.5	-29.50	1 / 50	25.61	-6.04	0.249	34.77	-40.81
		711.0	-29.50	1 / 50	25.61	-6.04	0.249	34.77	-40.81
	16-QAM	711.0	-29.50	1 / 26	24.60	-7.05	0.197	34.77	-41.82
		704.0	-29.50	1 / 26	23.70	-7.95	0.160	34.77	-42.72
15 MHz	π/2 BPSK	706.5	-29.50	1 / 77	25.70	-5.95	0.254	34.77	-40.72
		707.5	-29.50	1 / 39	25.69	-5.96	0.254	34.77	-40.73
		708.5	-29.50	1 / 77	25.59	-6.06	0.248	34.77	-40.83
	QPSK	706.5	-29.50	1 / 1	25.58	-6.07	0.247	34.77	-40.84
		707.5	-29.50	1 / 77	25.68	-5.97	0.253	34.77	-40.74
		708.5	-29.50	1 / 39	25.35	-6.30	0.234	34.77	-41.07
	16-QAM	706.5	-29.50	1 / 77	24.70	-6.95	0.202	34.77	-41.72
		707.5	-29.50	1 / 39	23.70	-7.95	0.160	34.77	-42.72

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

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch				

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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 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points \geq 2 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 177 of 202

Test Setup

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

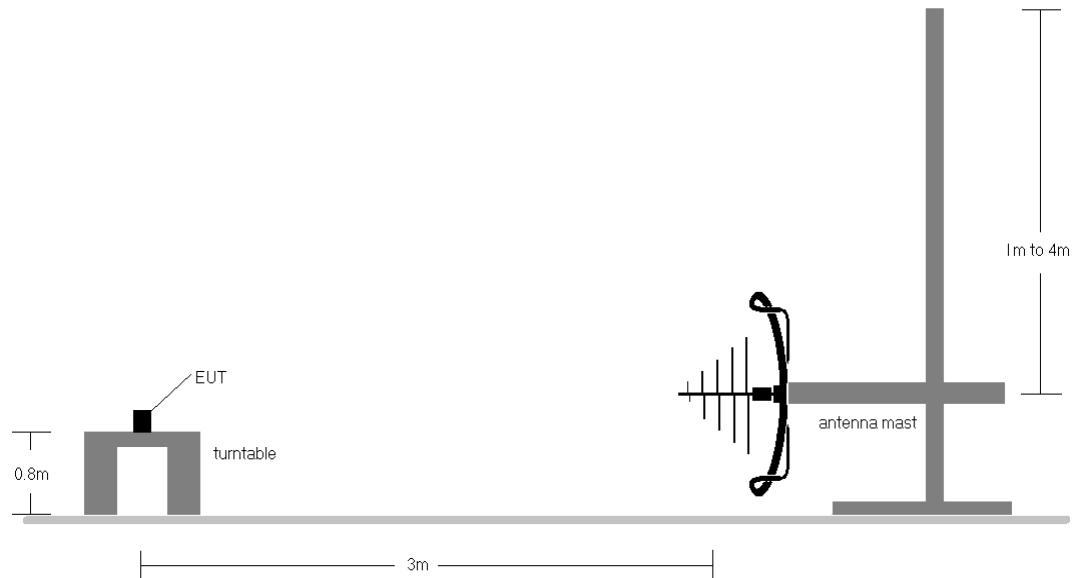


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

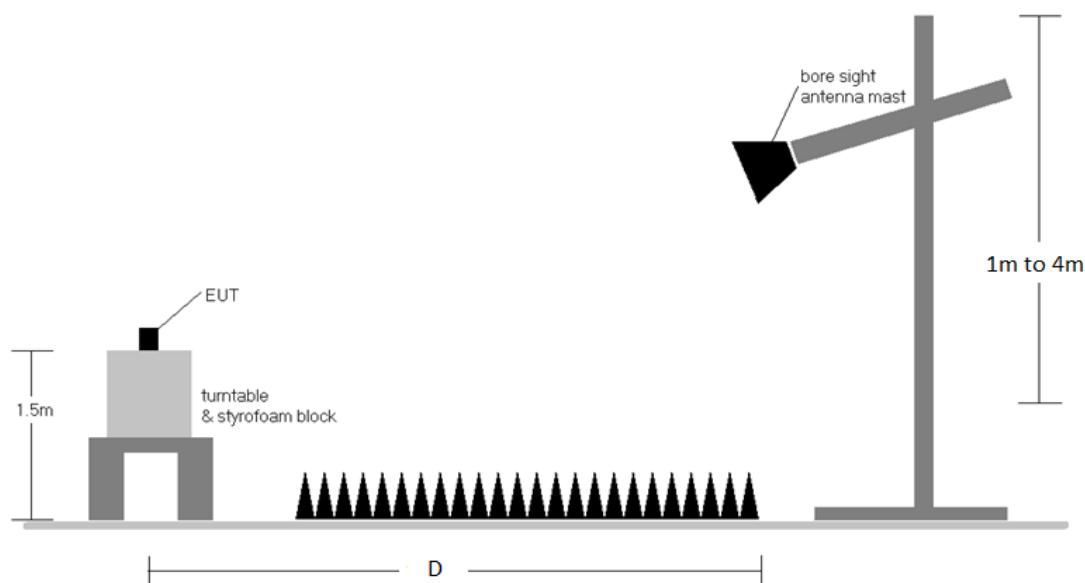


Figure 7-12. Test Instrument & Measurement Setup > 1GHz

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 178 of 202

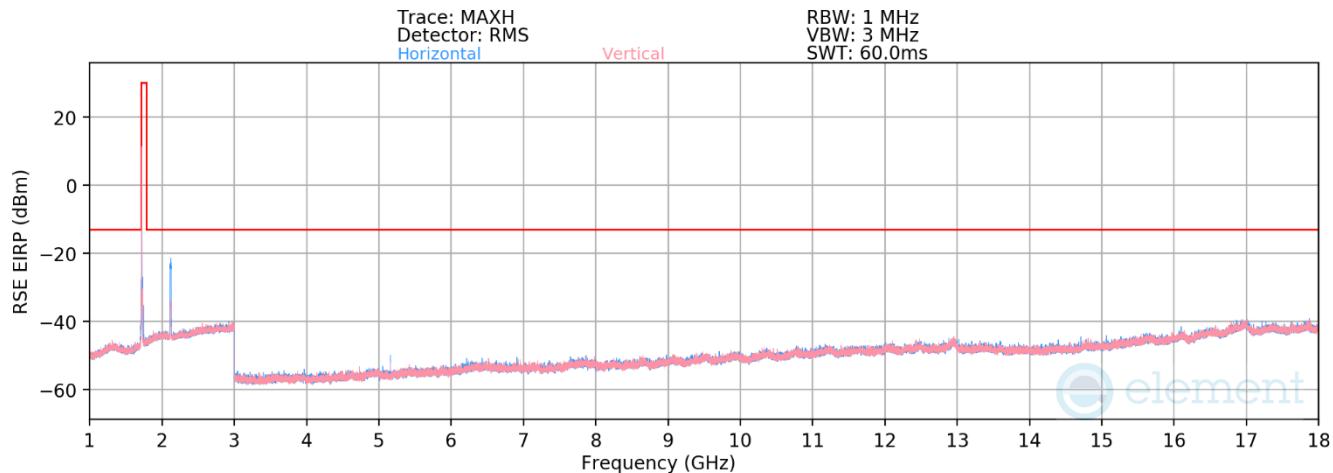
Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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. Emissions below 18GHz were measured at a 3 meter 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.

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 179 of 202

7.7.1 Antenna FCM Radiated Spurious Emission Measurements

LTE Band 66/4



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

FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 180 of 202

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	H	-	-	-79.43	5.31	32.88	-62.38	-13.00	-49.38
5160.0	H	270	125	-78.46	8.23	36.77	-58.49	-13.00	-45.49
6880.0	H	-	-	-81.96	11.06	36.10	-59.16	-13.00	-46.16
8600.0	H	-	-	-81.40	11.53	37.13	-58.13	-13.00	-45.13

Table 7-11. 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	H	-	-	-78.83	5.21	33.38	-61.87	-13.00	-48.87
5235.0	H	-	-	-81.27	8.71	34.44	-60.81	-13.00	-47.81
6980.0	H	-	-	-82.65	11.54	35.89	-59.37	-13.00	-46.37

Table 7-12. 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	H	-	-	-79.31	5.22	32.92	-62.34	-13.00	-49.34
5310.0	H	-	-	-80.86	8.69	34.83	-60.43	-13.00	-47.43
7080.0	H	-	-	-82.27	11.29	36.02	-59.24	-13.00	-46.24

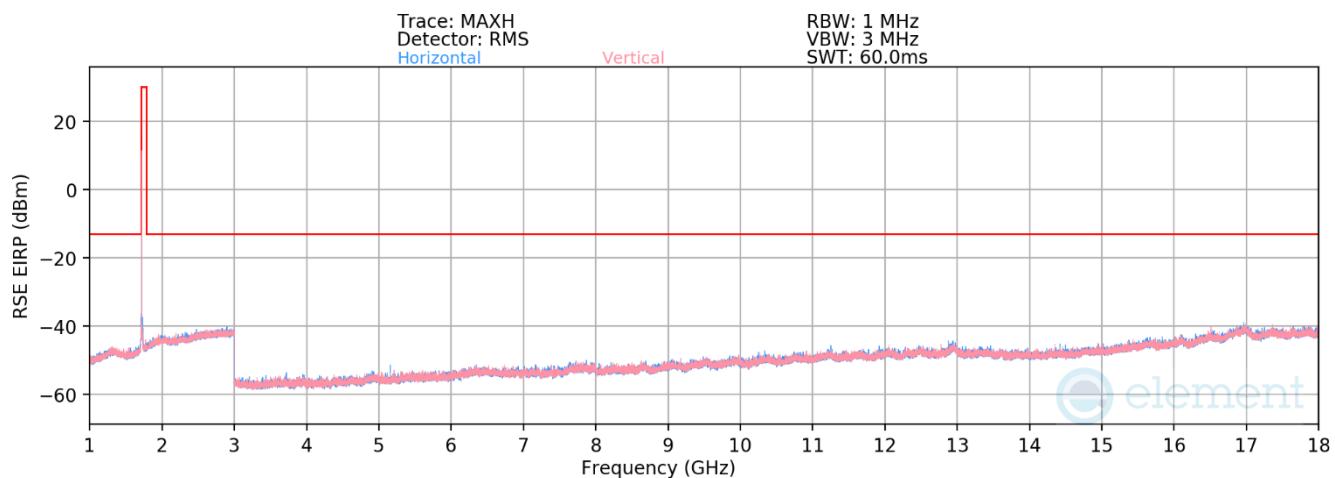
Table 7-13. Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch					

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NR Band n66

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

FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 182 of 202

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	H	-	-	-79.33	5.22	32.90	-62.36	-13.00	-49.36
5160.0	H	274	216	-77.60	8.23	37.62	-57.63	-13.00	-44.63
6880.0	H	-	-	-81.88	11.06	36.18	-59.07	-13.00	-46.07
8600.0	H	-	-	-81.00	11.17	37.18	-58.08	-13.00	-45.08
10320.0	H	-	-	-81.35	14.11	39.76	-55.50	-13.00	-42.50

Table 7-14. 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	H	117	167	-75.20	5.21	37.01	-58.25	-13.00	-45.25
5235.0	V	288	177	-76.98	8.59	38.61	-56.65	-13.00	-43.65
6980.0	H	-	-	-82.52	11.54	36.02	-59.23	-13.00	-46.23
8725.0	H	-	-	-81.51	11.89	37.39	-57.87	-13.00	-44.87
10470.0	H	-	-	-82.70	15.08	39.38	-55.88	-13.00	-42.88

Table 7-15. 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	H	-	-	-79.37	5.23	32.87	-62.39	-13.00	-49.39
5310.0	H	-	-	-81.30	8.52	34.21	-61.05	-13.00	-48.05
7080.0	H	-	-	-82.36	11.29	35.93	-59.33	-13.00	-46.33

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

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch					

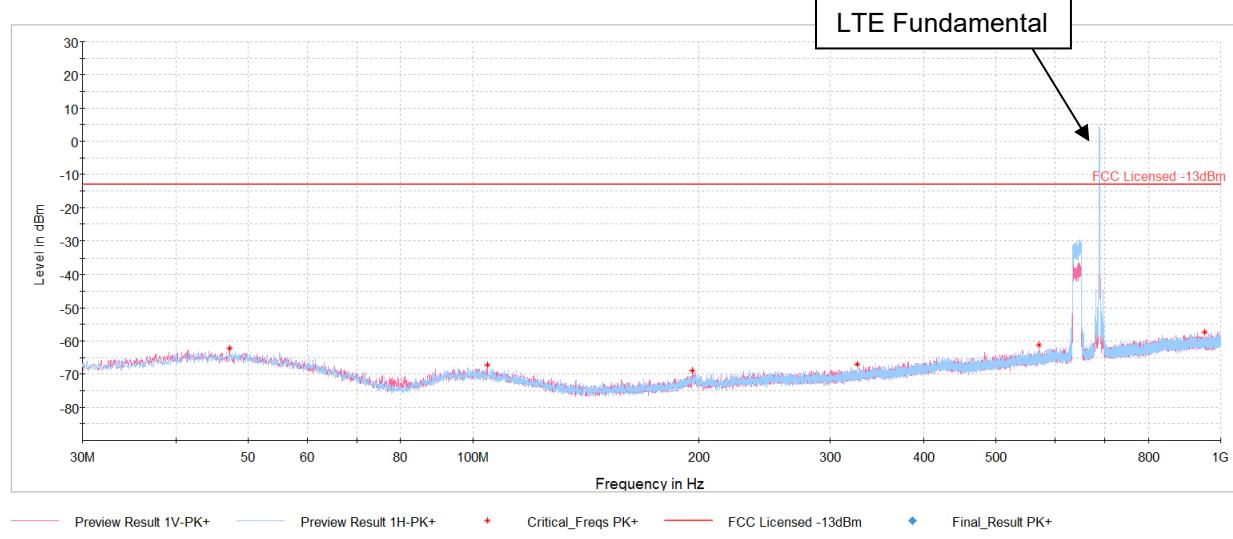
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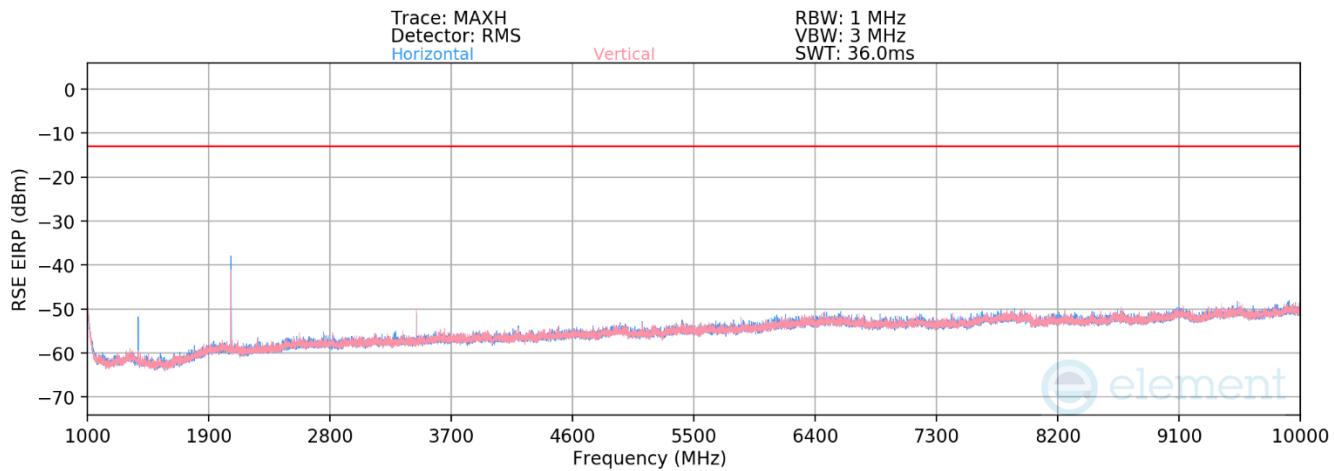
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7.7.2 Antenna BCM Radiated Spurious Emission Measurements

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)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 184 of 202	

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	H	154	283	-70.90	-1.07	35.03	-60.23	-13.00	-47.23
2019.0	H	279	178	-62.81	1.63	45.81	-49.44	-13.00	-36.44
2692.0	H	-	-	-78.59	3.14	31.54	-63.72	-13.00	-50.72
3365.0	H	-	-	-79.38	4.64	32.27	-62.99	-13.00	-49.99
4038.0	H	-	-	-79.50	5.79	33.29	-61.97	-13.00	-48.97

Table 7-17. 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	205	129	-71.16	-1.25	34.59	-60.66	-13.00	-47.66
2041.5	H	213	151	-64.94	1.83	43.90	-51.36	-13.00	-38.36
2722.0	H	-	-	-78.40	3.17	31.77	-63.49	-13.00	-50.49
3402.5	H	-	-	-78.89	4.31	32.42	-62.83	-13.00	-49.83
4083.0	H	-	-	-80.20	6.47	33.27	-61.98	-13.00	-48.98

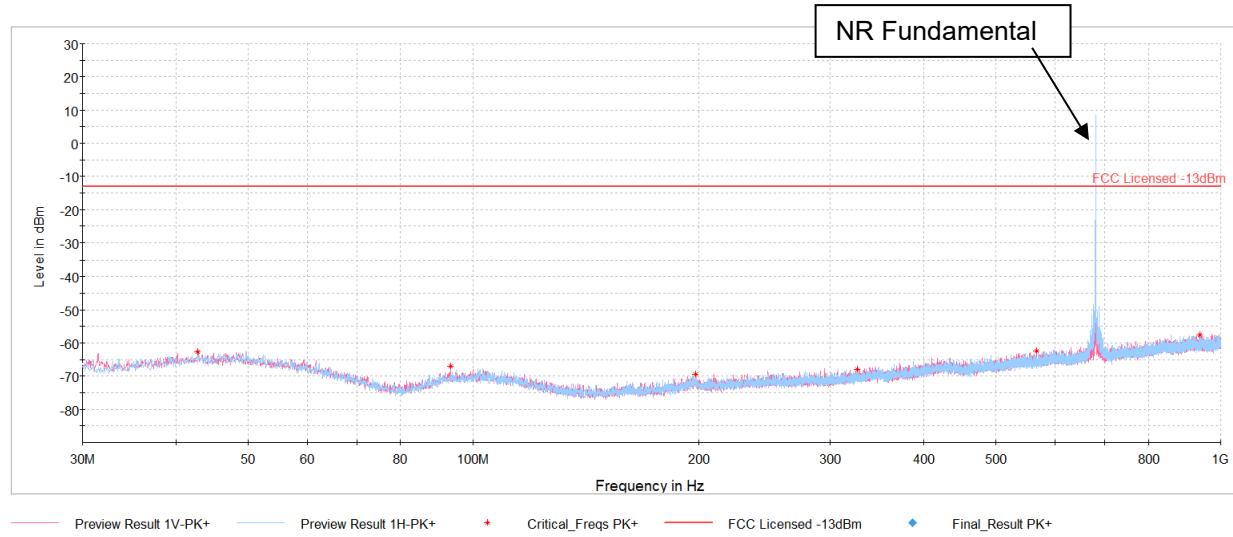
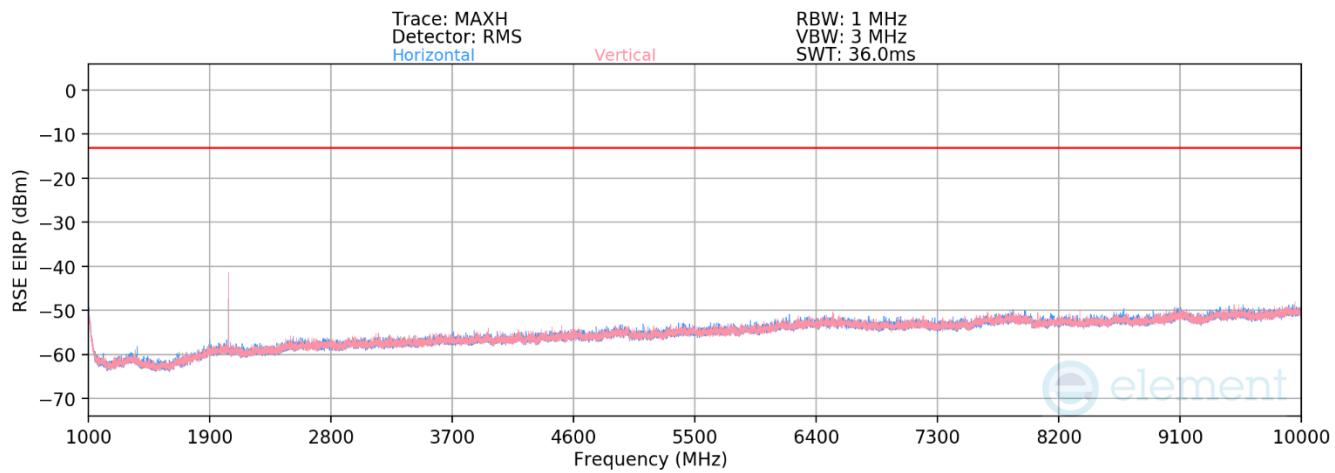
Table 7-18. Radiated Spurious Data (LTE Band 71 – Mid Channel)

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	132	290	-72.60	-1.23	33.18	-62.08	-13.00	-49.08
2064.0	H	177	331	-57.61	1.65	51.04	-44.21	-13.00	-31.21
2752.0	H	-	-	-78.56	3.38	31.82	-63.44	-13.00	-50.44
3440.0	H	296	241	-70.73	4.58	40.85	-54.41	-13.00	-41.41
4128.0	H	-	-	-80.21	6.53	33.32	-61.94	-13.00	-48.94
4816.0	H	-	-	-80.30	7.73	34.43	-60.83	-13.00	-47.83
5504.0	H	-	-	-81.76	9.61	34.85	-60.41	-13.00	-47.41

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

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch				

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-A3335	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 186 of 202

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	H	208	175	-71.91	-1.07	34.02	-61.23	-13.00	-48.23
2019.0	H	161	153	-69.21	1.63	39.42	-55.84	-13.00	-42.84
2692.0	H	-	-	-78.56	3.27	31.72	-63.54	-13.00	-50.54
3365.0	H	-	-	-78.84	4.57	32.72	-62.53	-13.00	-49.53
4038.0	H	-	-	-79.58	5.89	33.31	-61.95	-13.00	-48.95

Table 7-20. 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	154	317	-75.37	-1.25	30.38	-64.88	-13.00	-51.88
2041.5	V	163	13	-62.03	1.83	46.80	-48.45	-13.00	-35.45
2722.0	H	-	-	-78.24	3.17	31.93	-63.33	-13.00	-50.33
3402.5	H	-	-	-79.04	4.50	32.46	-62.79	-13.00	-49.79
4083.0	H	-	-	-80.00	6.53	33.54	-61.72	-13.00	-48.72

Table 7-21. 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	121	293	-75.64	-1.23	30.14	-65.12	-13.00	-52.12
2064.0	H	180	2	-63.18	1.65	45.47	-49.79	-13.00	-36.79
2752.0	V	-	-	-78.29	3.38	32.08	-63.17	-13.00	-50.17
3440.0	V	-	-	-79.05	4.55	32.50	-62.76	-13.00	-49.76
4128.0	V	-	-	-80.07	6.18	33.12	-62.14	-13.00	-49.14

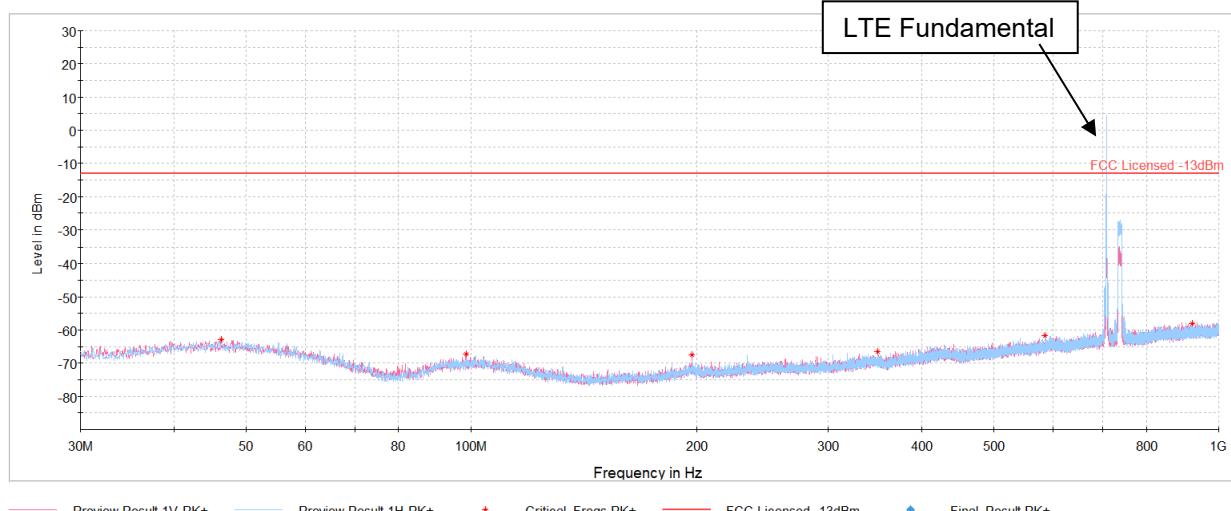
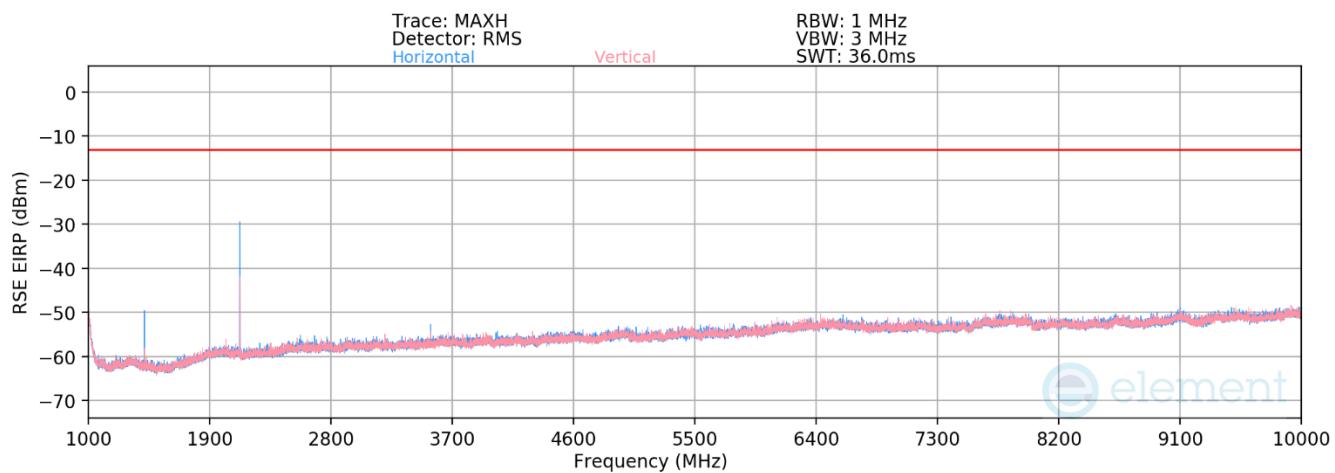
Table 7-22. Radiated Spurious Data (NR Band n71 – High Channel)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch					

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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-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 188 of 202	

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.0	H	209	174	-70.74	-1.98	34.28	-60.98	-13.00	-47.98
2112.0	H	218	156	-68.37	1.45	40.08	-55.18	-13.00	-42.18
2816.0	H	-	-	-78.44	3.23	31.79	-63.47	-13.00	-50.47
3520.0	H	-	-	-79.32	4.87	32.56	-62.70	-13.00	-49.70
4224.0	H	-	-	-80.46	6.58	33.11	-62.14	-13.00	-49.14

Table 7-23. 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	276	163	-77.21	-1.98	27.81	-67.45	-13.00	-54.45
2122.5	H	110	206	-62.49	1.42	45.92	-49.34	-13.00	-36.34
2830.0	H	-	-	-78.74	3.26	31.52	-63.74	-13.00	-50.74
3537.5	H	173	10	-76.20	4.79	35.59	-59.66	-13.00	-46.66
4245.0	V	-	-	-80.07	6.32	33.25	-62.00	-13.00	-49.00
4952.5	H	-	-	-80.75	8.17	34.43	-60.83	-13.00	-47.83
5660.0	V	-	-	-81.69	9.57	34.89	-60.37	-13.00	-47.37

Table 7-24. 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.0	H	295	167	-72.08	-1.98	32.94	-62.31	-13.00	-49.31
2133.0	H	249	351	-67.74	1.42	40.67	-54.58	-13.00	-41.58
2844.0	H	-	-	-78.61	3.09	31.48	-63.78	-13.00	-50.78
3555.0	V	-	-	-79.30	4.73	32.43	-62.83	-13.00	-49.83
4266.0	H	-	-	-79.99	6.46	33.47	-61.79	-13.00	-48.79

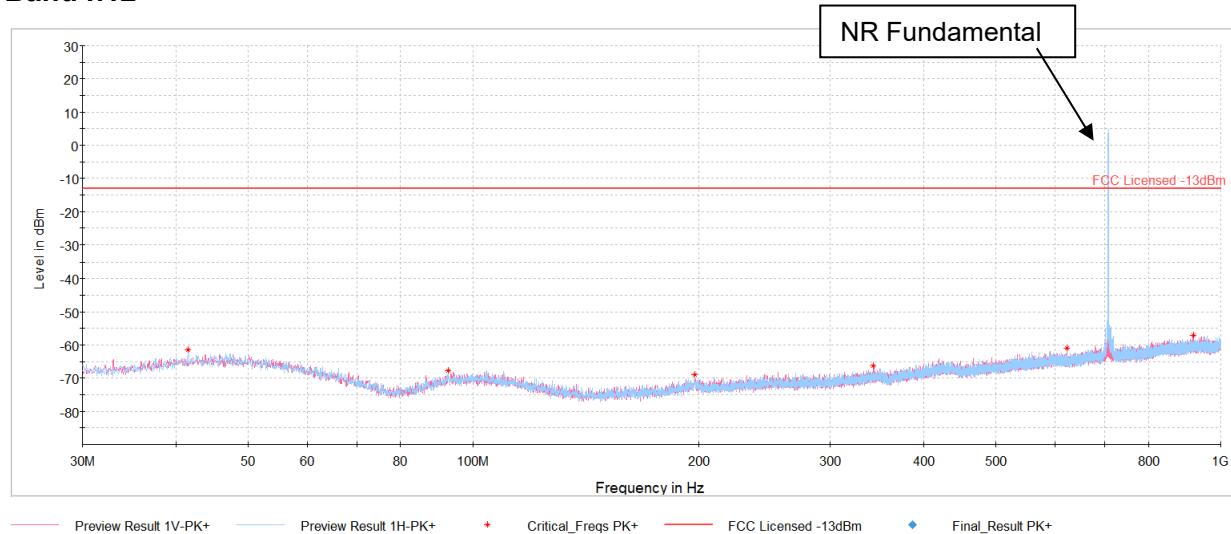
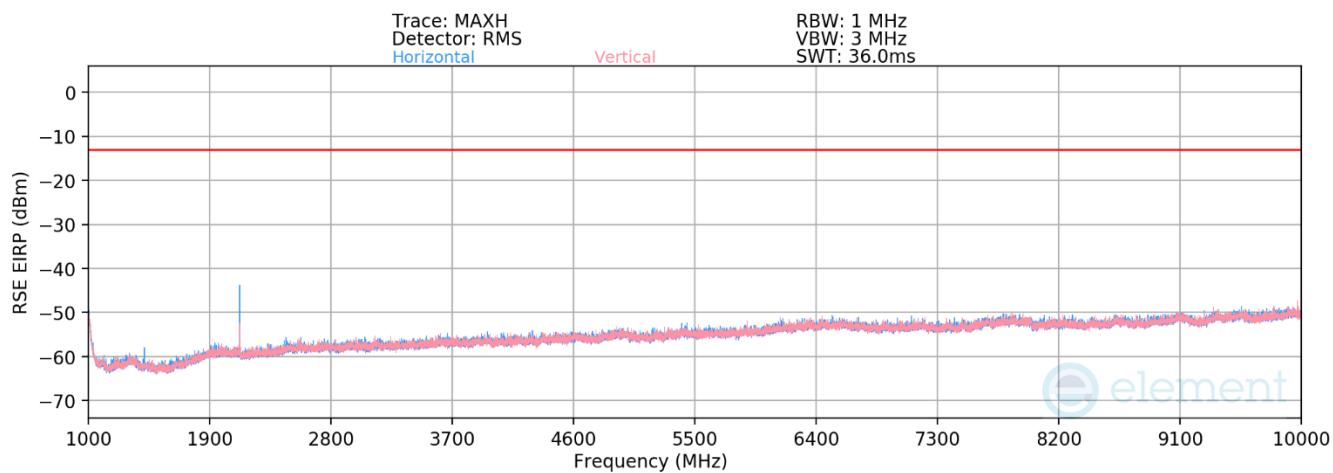
Table 7-25. Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch					

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NR Band n12

Plot 7-290. Antenna BCM Radiated Spurious Emission below 1GHz (NR Band n12)

Plot 7-291. Antenna BCM Radiated Spurious Emission above 1GHz (NR Band n12)

FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 190 of 202

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.0	H	396	247	-73.93	-1.98	31.09	-64.17	-13.00	-51.17
2119.5	V	118	358	-77.21	1.45	31.24	-64.01	-13.00	-51.01
2826.0	H	-	-	-78.73	3.26	31.52	-63.73	-13.00	-50.73
3532.5	H	-	-	-79.36	4.87	32.51	-62.74	-13.00	-49.74
4239.0	H	-	-	-80.14	6.27	33.13	-62.13	-13.00	-49.13

Table 7-26. Radiated Spurious Data (NR Band n12 – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	192	161	-75.05	-1.98	29.97	-65.28	-13.00	-52.28
2122.5	H	214	141	-64.68	1.45	43.76	-51.49	-13.00	-38.49
2830.0	H	-	-	-78.34	3.26	31.91	-63.34	-13.00	-50.34
3537.5	H	-	-	-79.18	4.84	32.66	-62.59	-13.00	-49.59
4245.0	H	-	-	-79.94	6.27	33.33	-61.93	-13.00	-48.93

Table 7-27. Radiated Spurious Data (NR Band n12 – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.0	H	237	288	-73.34	-1.98	31.68	-63.57	-13.00	-50.57
2125.5	H	334	215	-74.04	1.42	34.38	-60.88	-13.00	-47.88
2834.0	H	-	-	-78.60	3.26	31.66	-63.60	-13.00	-50.60
3542.5	H	-	-	-79.50	4.87	32.37	-62.89	-13.00	-49.89
4251.0	H	-	-	-80.04	6.32	33.29	-61.97	-13.00	-48.97

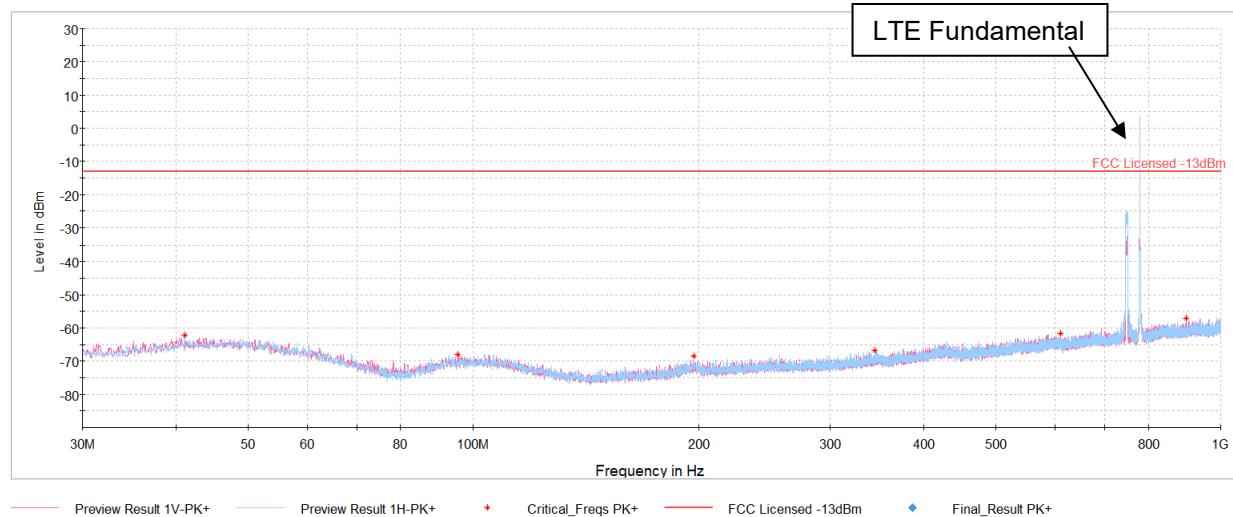
Table 7-28. Radiated Spurious Data (NR Band n12 – High Channel)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch					

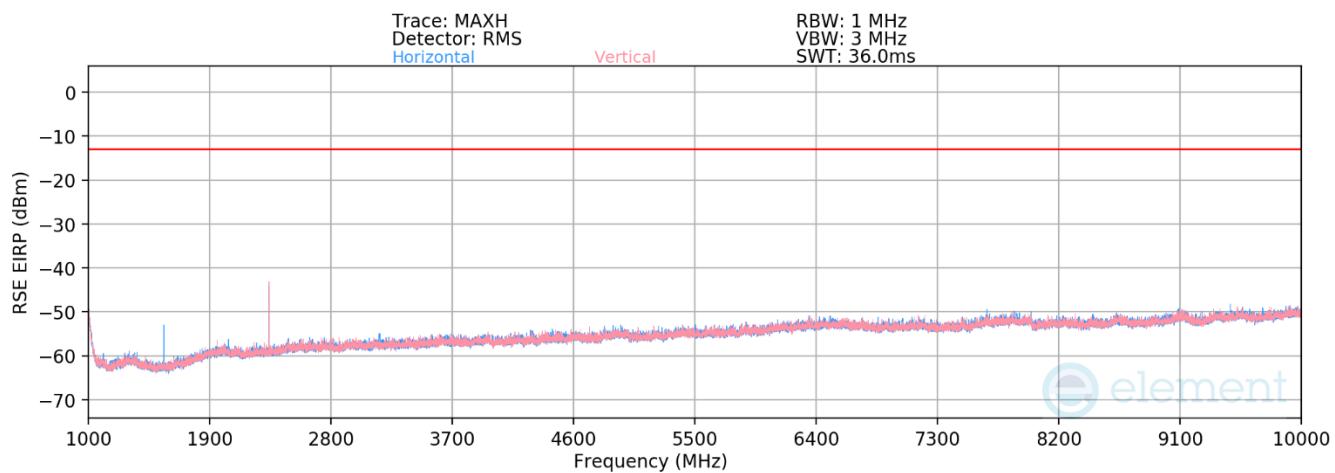
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LTE Band 13



Plot 7-292. Antenna BCM Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-293. Antenna BCM Radiated Spurious Emission above 1GHz (LTE Band 13)

FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 192 of 202

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.0	H	256	157	-69.31	-2.44	35.25	-60.01	-40.00	-20.01
2338.5	V	173	62	-63.61	1.75	45.14	-50.12	-13.00	-37.12
3118.0	V	-	-	-78.70	4.33	32.64	-62.62	-13.00	-49.62
3897.5	H	-	-	-79.63	5.76	33.13	-62.13	-13.00	-49.13
4677.0	H	-	-	-81.22	7.99	33.77	-61.49	-13.00	-48.49

Table 7-29. 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.0	H	214	341	-76.02	-2.36	28.62	-66.64	-40.00	-26.64
2346.0	H	141	152	-65.13	1.71	43.58	-51.68	-13.00	-38.68
3128.0	V	-	-	-78.83	4.33	32.50	-62.75	-13.00	-49.75
3910.0	V	-	-	-79.84	5.93	33.10	-62.16	-13.00	-49.16
4692.0	H	-	-	-80.90	7.69	33.79	-61.47	-13.00	-48.47

Table 7-30. 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.0	H	196	354	-73.49	-2.36	31.15	-64.11	-40.00	-24.11
2353.5	H	115	340	-59.95	1.63	48.68	-46.57	-13.00	-33.57
3138.0	V	-	-	-78.70	4.33	32.64	-62.62	-13.00	-49.62
3922.5	V	-	-	-79.74	5.76	33.02	-62.24	-13.00	-49.24
4707.0	V	-	-	-80.59	7.47	33.88	-61.38	-13.00	-48.38

Table 7-31. Radiated Spurious Data (LTE Band 13 – High Channel)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch					

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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:

- Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- 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

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 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.
- 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.

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.

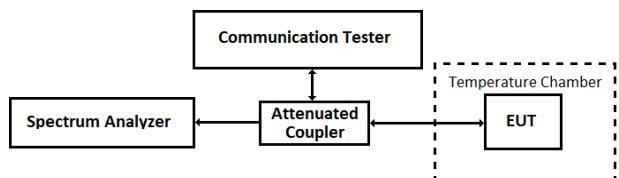


Figure 7-13. LTE Test Instrument & Measurement Setup

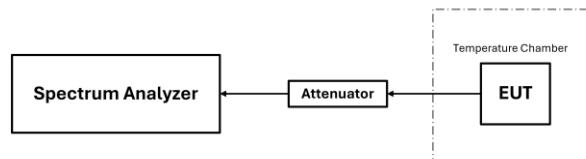


Figure 7-14. FR1 Test Instrument & Measurement Setup

Test Notes

N/A

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 194 of 202

Frequency Stability / Temperature Variation

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	1.71089186	-0.00089186
		- 20	1.71089436	-0.00089436
		- 10	1.71088419	-0.00088419
		0	1.71088126	-0.00088126
		+ 10	1.71088775	-0.00088775
		+ 20 (Ref)	1.71088592	-0.00088592
		+ 30	1.71088016	-0.00088016
		+ 40	1.71088094	-0.00088094
		+ 50	1.71088404	-0.00088404
		Battery Endpoint	1.71089685	-0.00089685

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	1.77914775	-0.00085225
		- 20	1.77909507	-0.00090493
		- 10	1.77908872	-0.00091128
		0	1.77914568	-0.00085432
		+ 10	1.77911456	-0.00088544
		+ 20 (Ref)	1.77911297	-0.00088703
		+ 30	1.77911677	-0.00088323
		+ 40	1.77912097	-0.00087903
		+ 50	1.77911440	-0.00088560
		Battery Endpoint	1.77910534	-0.00089467

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

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 195 of 202	

Frequency Stability / Temperature Variation

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	0.66389580	-0.00089580
		- 20	0.66391160	-0.00091160
		- 10	0.66389092	-0.00089092
		0	0.66389801	-0.00089801
		+ 10	0.66389563	-0.00089563
		+ 20 (Ref)	0.66389390	-0.00089390
		+ 30	0.66390121	-0.00090121
		+ 40	0.66388982	-0.00088982
		+ 50	0.66389391	-0.00089391
		Battery Endpoint	0.66388603	-0.00088603

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	0.69711283	-0.00088717
		- 20	0.69711610	-0.00088390
		- 10	0.69711239	-0.00088761
		0	0.69708388	-0.00091612
		+ 10	0.69713274	-0.00086726
		+ 20 (Ref)	0.69709574	-0.00090426
		+ 30	0.69711905	-0.00088095
		+ 40	0.69708005	-0.00091995
		+ 50	0.69713105	-0.00086895
		Battery Endpoint	0.69709981	-0.00090019

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

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 196 of 202

Frequency Stability / Temperature Variation

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	0.69939539	-0.00139539
		- 20	0.69938702	-0.00138702
		- 10	0.69938287	-0.00138287
		0	0.69936217	-0.00136217
		+ 10	0.69940082	-0.00140082
		+ 20 (Ref)	0.69937221	-0.00137221
		+ 30	0.69940152	-0.00140152
		+ 40	0.69937448	-0.00137448
		+ 50	0.69940404	-0.00140404
		Battery Endpoint	0.69937648	-0.00137648

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	0.71563544	-0.00036456
		- 20	0.71558393	-0.00041607
		- 10	0.71560702	-0.00039298
		0	0.71563055	-0.00036945
		+ 10	0.71561628	-0.00038372
		+ 20 (Ref)	0.71563073	-0.00036927
		+ 30	0.71562346	-0.00037654
		+ 40	0.71562854	-0.00037146
		+ 50	0.71561014	-0.00038986
		Battery Endpoint	0.71558145	-0.00041855

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

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 197 of 202

Frequency Stability / Temperature Variation

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	0.77738862	-0.00038862
		- 20	0.77738421	-0.00038421
		- 10	0.77740369	-0.00040369
		0	0.77741142	-0.00041142
		+ 10	0.77738699	-0.00038699
		+ 20 (Ref)	0.77740413	-0.00040413
		+ 30	0.77738566	-0.00038566
		+ 40	0.77740121	-0.00040121
		+ 50	0.77738995	-0.00038995
		Battery Endpoint	0.77737594	-0.00037593

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	0.78661997	-0.00038003
		- 20	0.78660753	-0.00039247
		- 10	0.78659192	-0.00040808
		0	0.78659443	-0.00040557
		+ 10	0.78663524	-0.00036476
		+ 20 (Ref)	0.78659369	-0.00040631
		+ 30	0.78661346	-0.00038654
		+ 40	0.78660573	-0.00039427
		+ 50	0.78660605	-0.00039395
		Battery Endpoint	0.78661911	-0.00038089

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

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

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	1.71051747	-0.00051747
		- 20	1.71051791	-0.00051791
		- 10	1.71051603	-0.00051603
		0	1.71051335	-0.00051335
		+ 10	1.71051253	-0.00051253
		+ 20 (Ref)	1.71051194	-0.00051194
		+ 30	1.71048726	-0.00048726
		+ 40	1.71048564	-0.00048564
		+ 50	1.71048872	-0.00048872
		Battery Endpoint	3.40	+ 20
			1.71033413	-0.00033413

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	1.77950424	-0.00049576
		- 20	1.77949563	-0.00050437
		- 10	1.77949139	-0.00050861
		0	1.77948279	-0.00051721
		+ 10	1.77947836	-0.00052165
		+ 20 (Ref)	1.77947268	-0.00052732
		+ 30	1.77946729	-0.00053271
		+ 40	1.77949901	-0.00050099
		+ 50	1.77949157	-0.00050843
		Battery Endpoint	3.40	+ 20
			1.77967354	-0.00032646

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

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

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	0.66340714	-0.00040714
		- 20	0.66340595	-0.00040595
		- 10	0.66340679	-0.00040679
		0	0.66340630	-0.00040630
		+ 10	0.66340312	-0.00040311
		+ 20 (Ref)	0.66340560	-0.00040560
		+ 30	0.66340507	-0.00040507
		+ 40	0.66340196	-0.00040196
		+ 50	0.66340131	-0.00040131
		Battery Endpoint	0.66335009	-0.00035009

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	0.69759002	-0.00040998
		- 20	0.69759399	-0.00040601
		- 10	0.69759419	-0.00040581
		0	0.69759471	-0.00040529
		+ 10	0.69759456	-0.00040544
		+ 20 (Ref)	0.69759221	-0.00040779
		+ 30	0.69759374	-0.00040626
		+ 40	0.69757097	-0.00042903
		+ 50	0.69756725	-0.00043275
		Battery Endpoint	0.69766369	-0.00033631

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

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

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	0.69933241	-0.00033241
		- 20	0.69933025	-0.00033025
		- 10	0.69932305	-0.00032305
		0	0.69931835	-0.00031835
		+ 10	0.69932467	-0.00032467
		+ 20 (Ref)	0.69933062	-0.00033062
		+ 30	0.69931571	-0.00031571
		+ 40	0.69933875	-0.00033875
		+ 50	0.69933863	-0.00033863
Battery Endpoint	3.40	+ 20	0.69924101	-0.00024101

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	0.71565994	-0.00034006
		- 20	0.71566077	-0.00033923
		- 10	0.71565709	-0.00034291
		0	0.71565847	-0.00034153
		+ 10	0.71565691	-0.00034309
		+ 20 (Ref)	0.71565566	-0.00034434
		+ 30	0.71564997	-0.00035003
		+ 40	0.71563804	-0.00036196
		+ 50	0.71564528	-0.00035472
Battery Endpoint	3.40	+ 20	0.71571443	-0.00028557

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

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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-A3335** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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