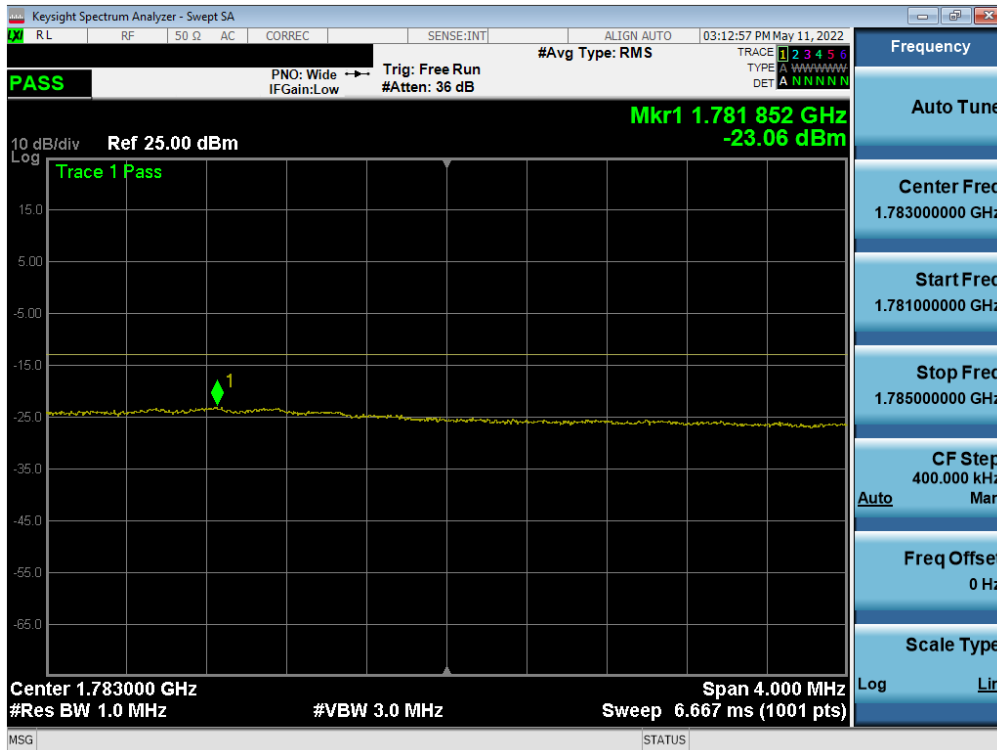


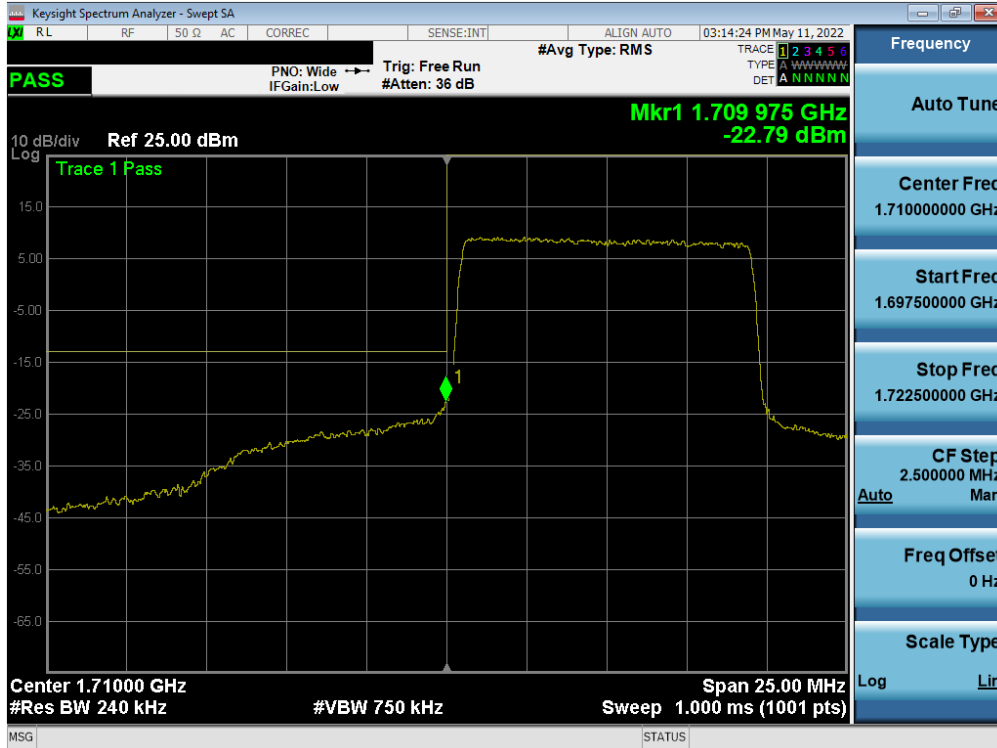


Plot 7-227. Upper Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB - Ant F)

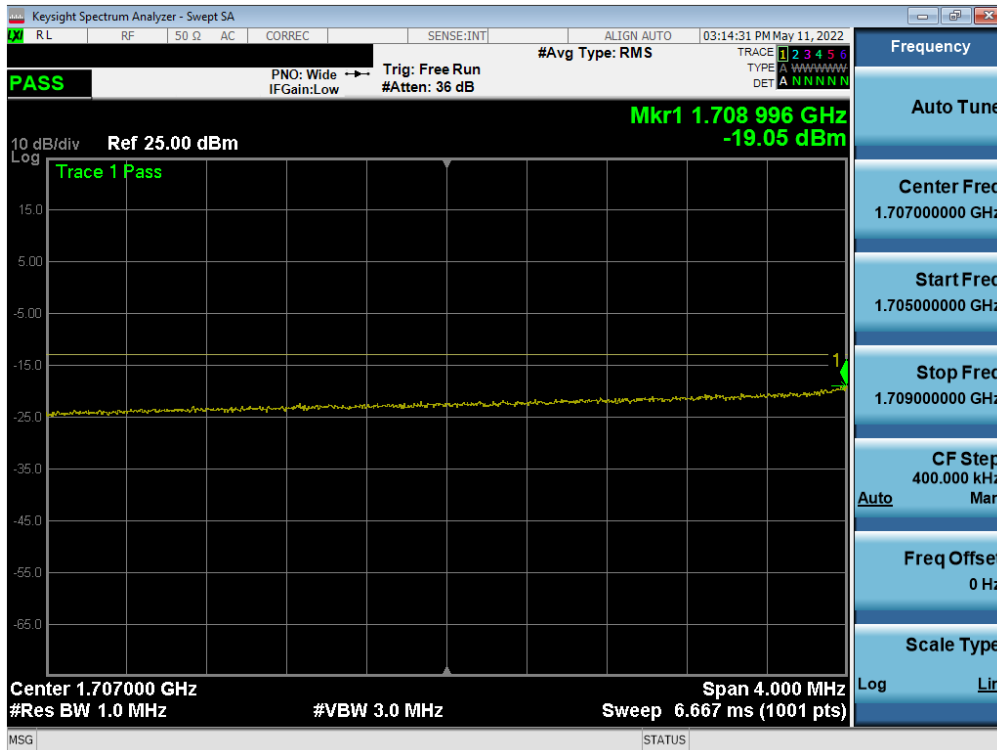


Plot 7-228. Upper Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 138 of 238

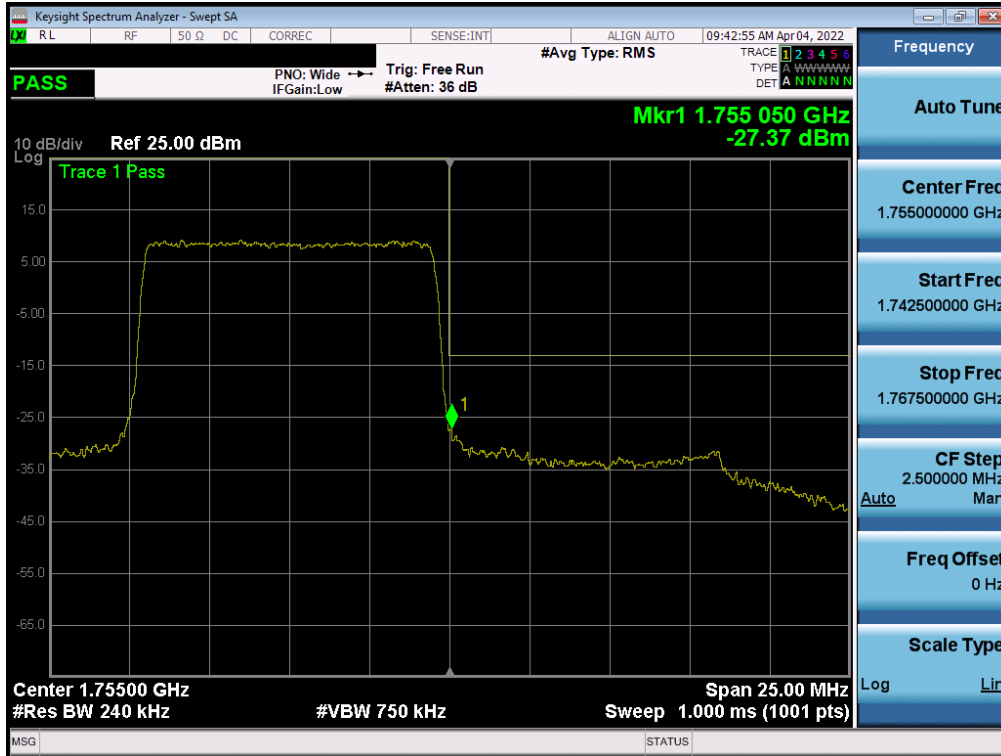


Plot 7-229. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB - Ant F)

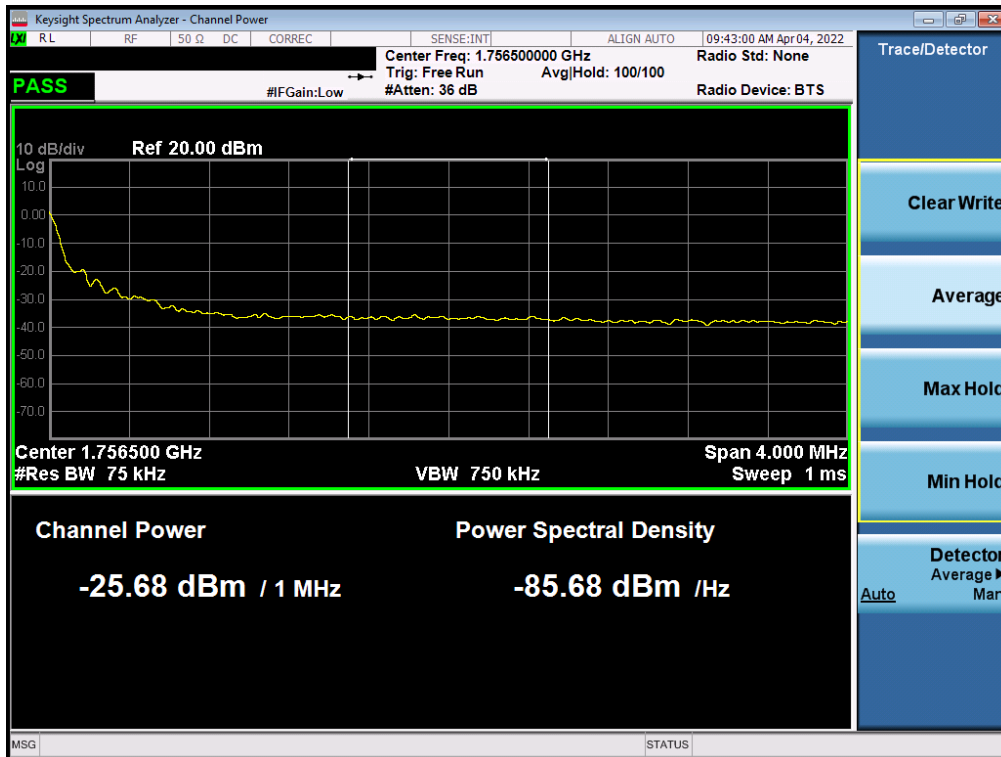


Plot 7-230. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 139 of 238

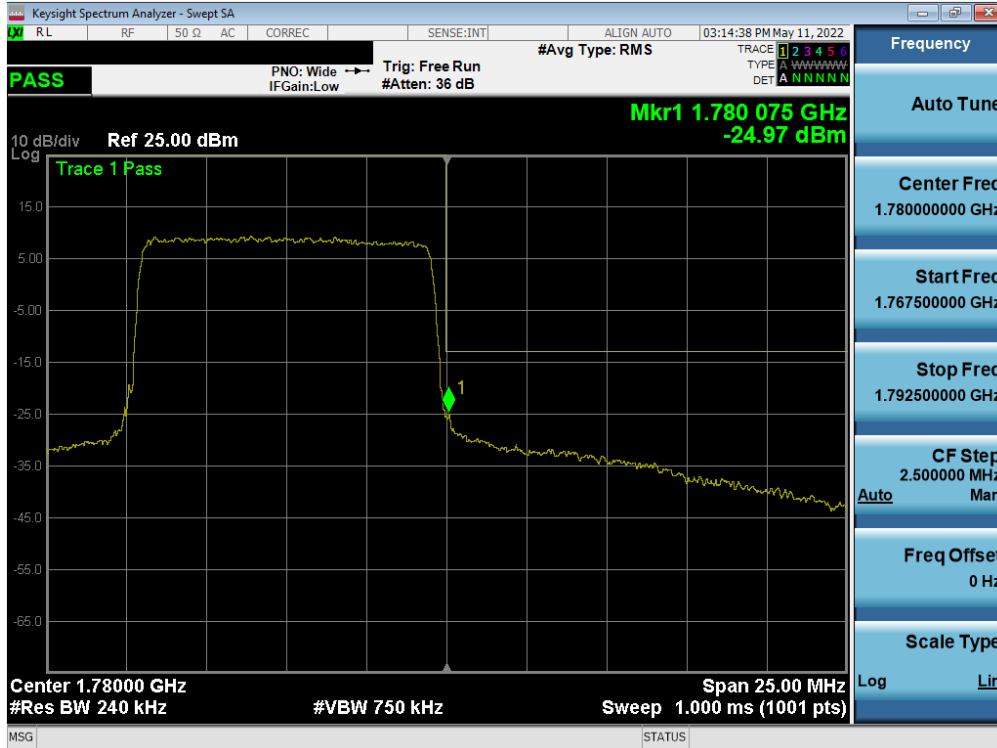


Plot 7-231. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB - Ant F)

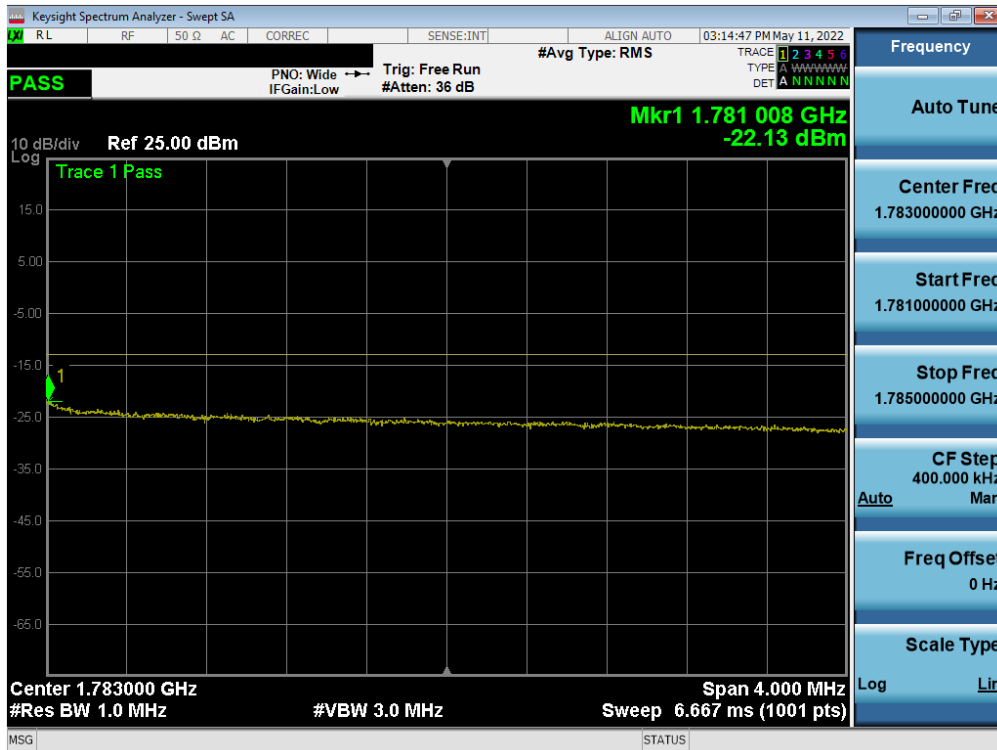


Plot 7-232. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 140 of 238

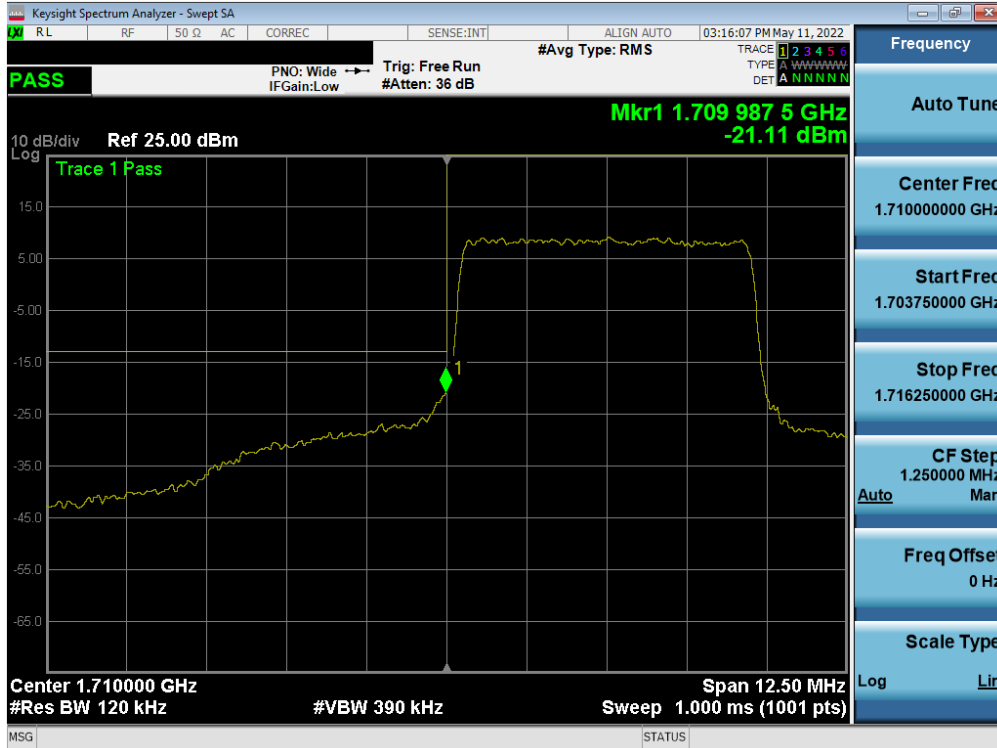


Plot 7-233. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB - Ant F)

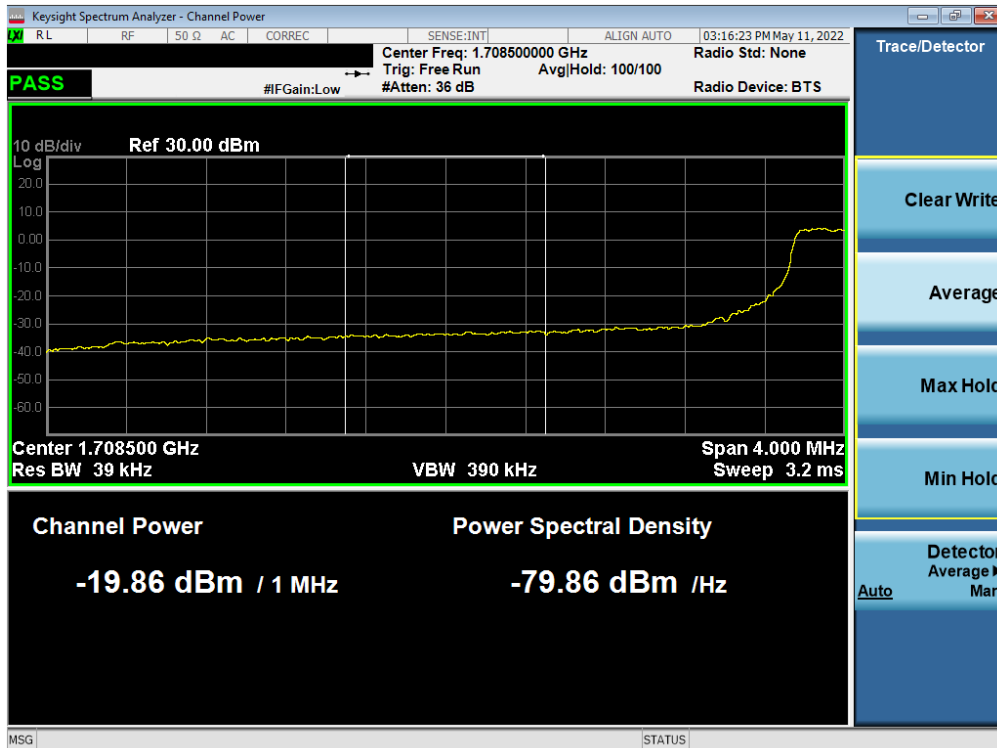


Plot 7-234. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-235. Lower Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB - Ant F)

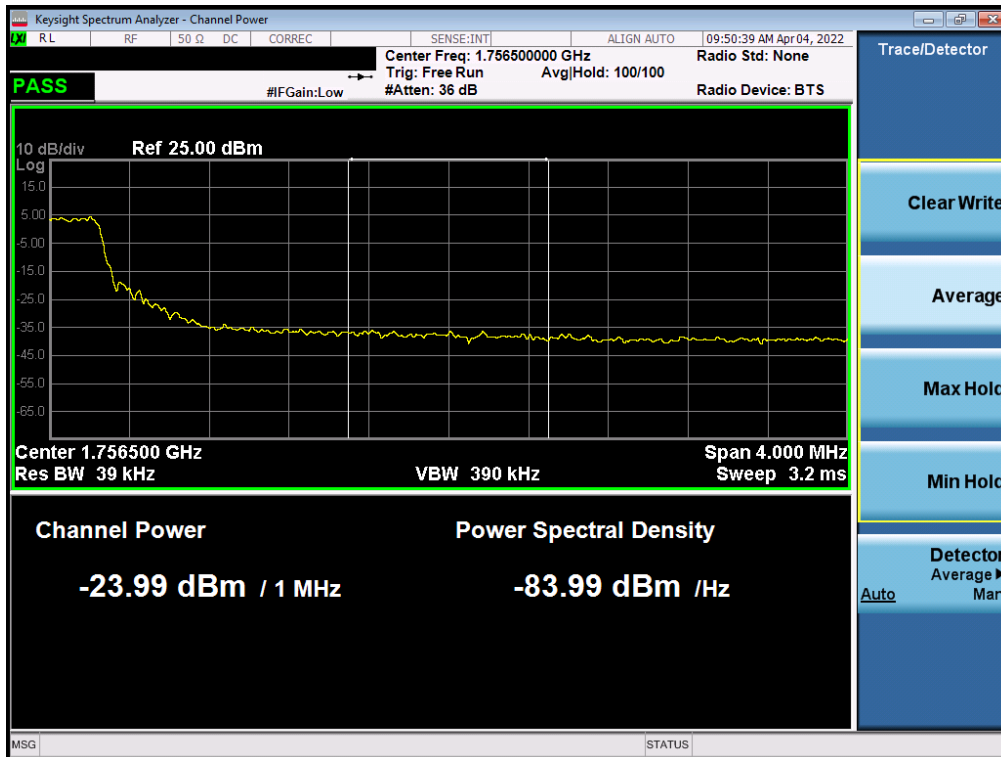


Plot 7-236. Lower Extended Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 142 of 238

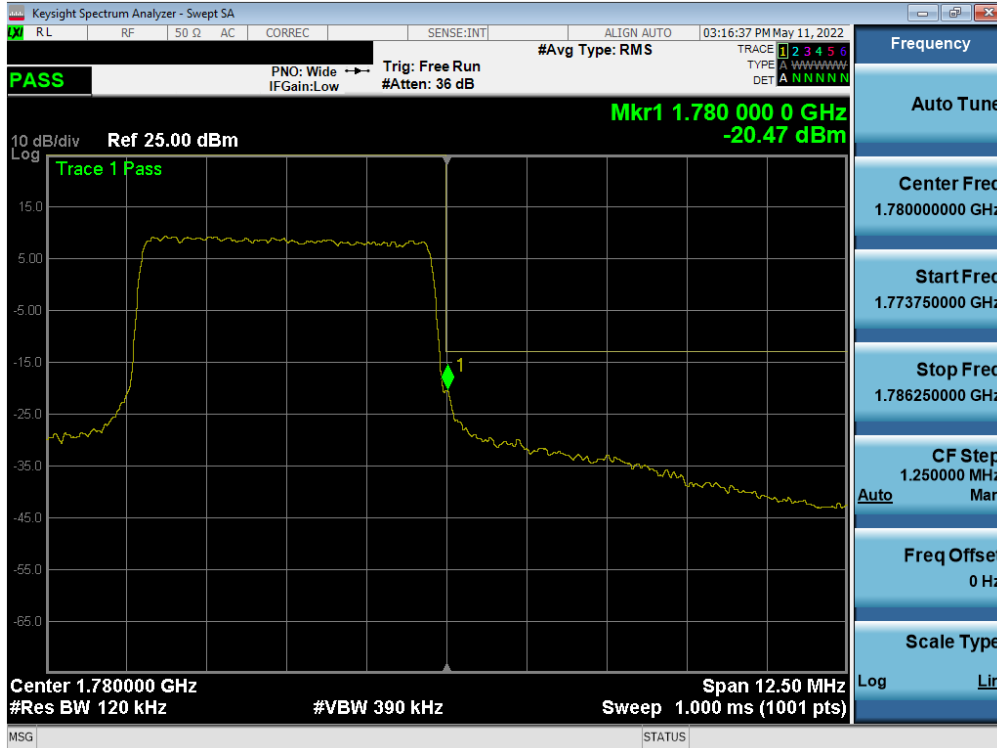


Plot 7-237. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB - Ant F)

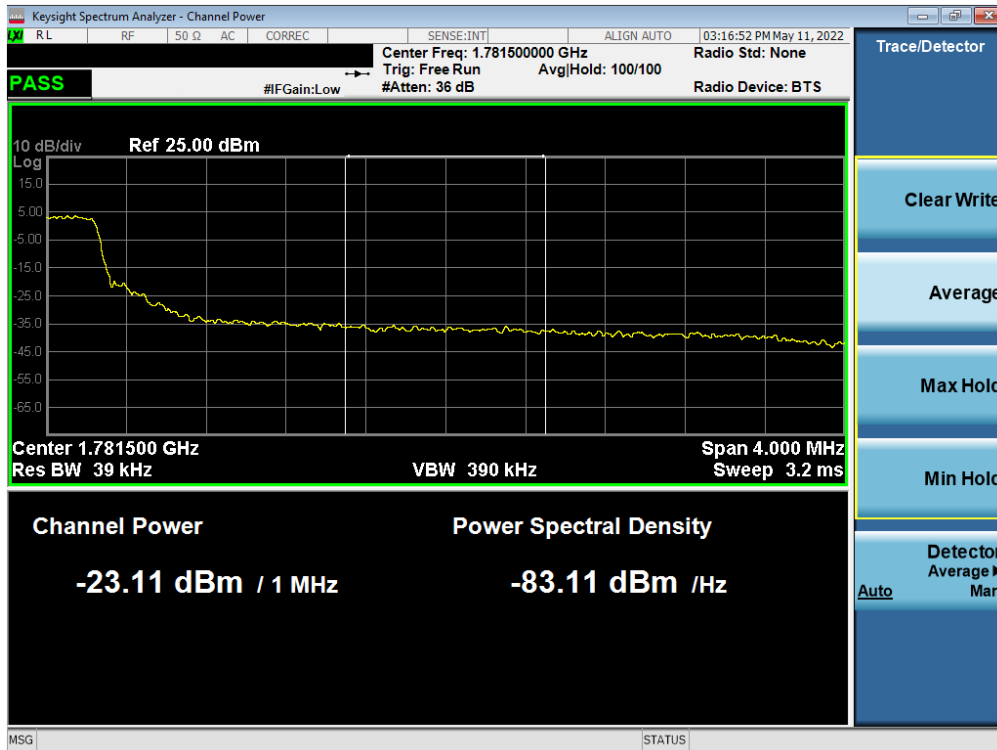


Plot 7-238. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 143 of 238

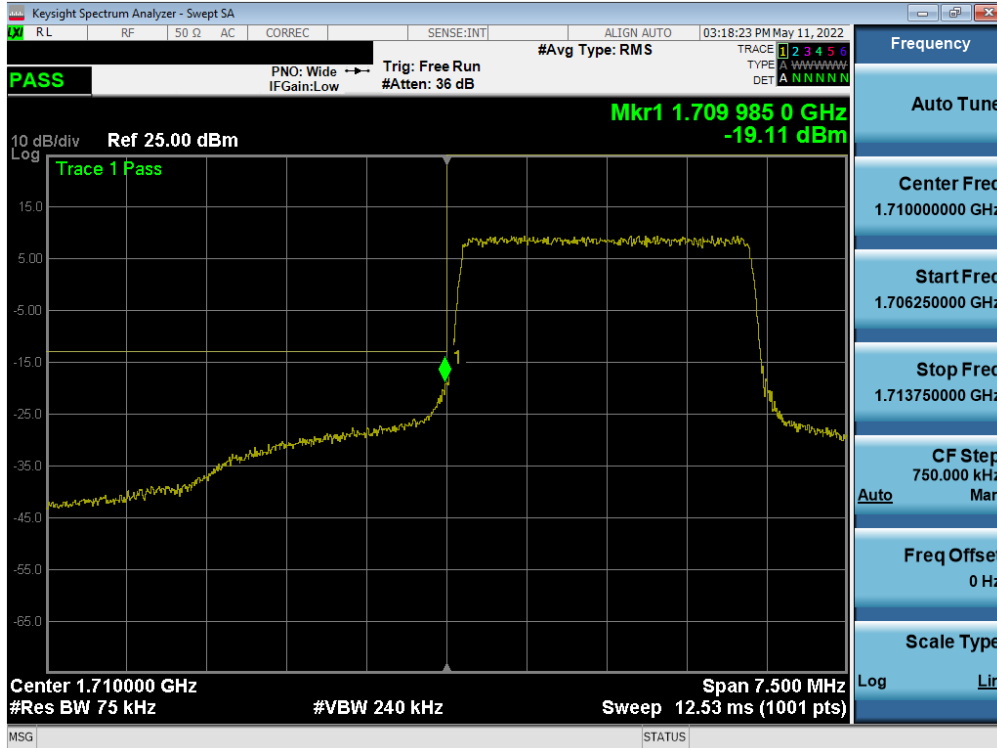


Plot 7-239. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB - Ant F)

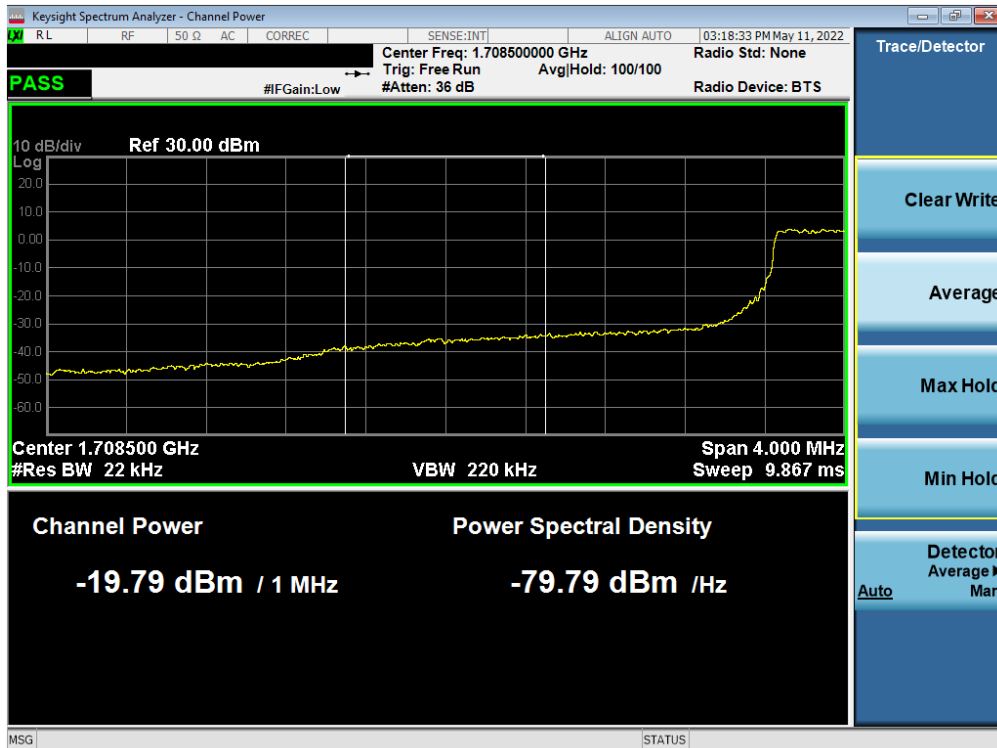


Plot 7-240. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 144 of 238

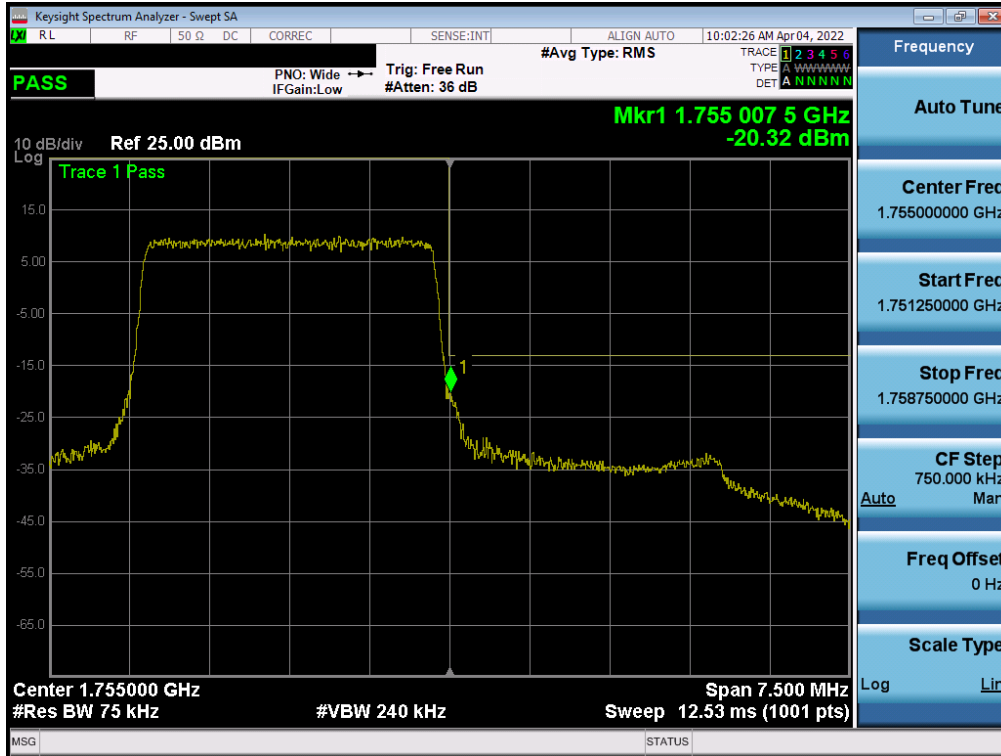


Plot 7-241. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB - Ant F)

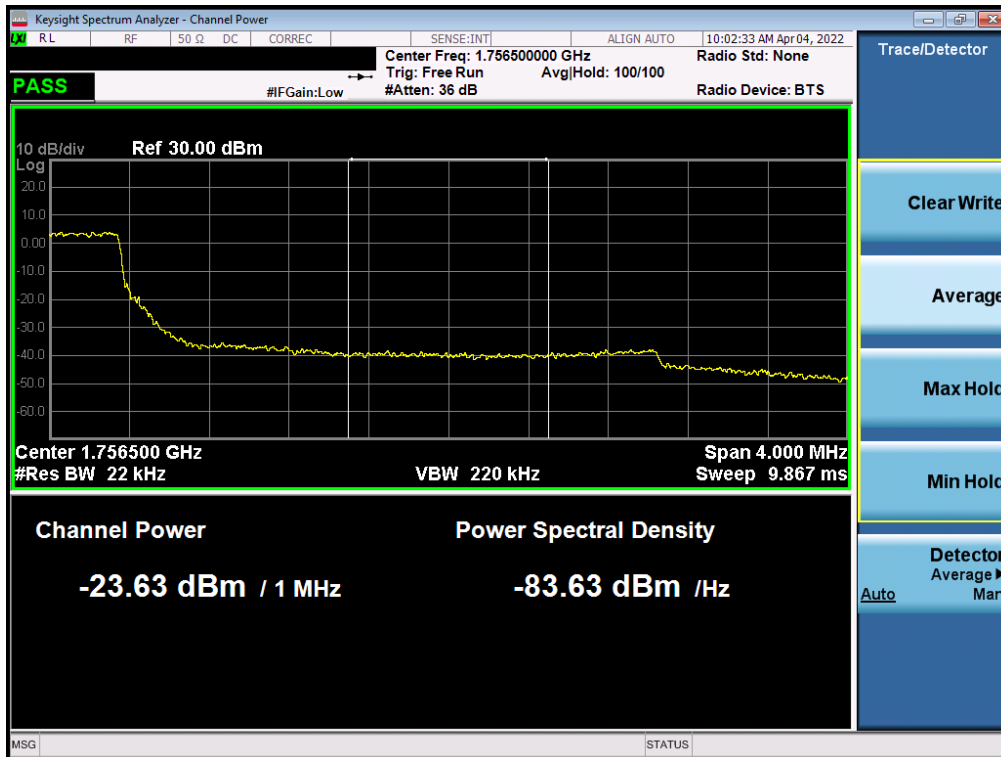


Plot 7-242. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-243. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB - Ant F)

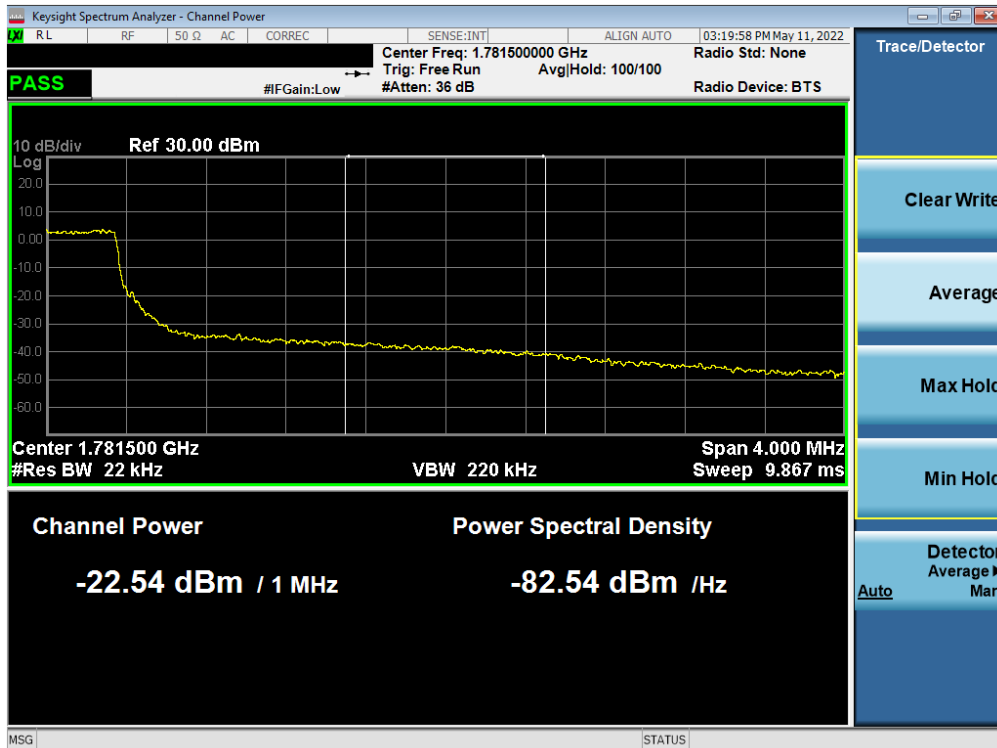


Plot 7-244. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 146 of 238

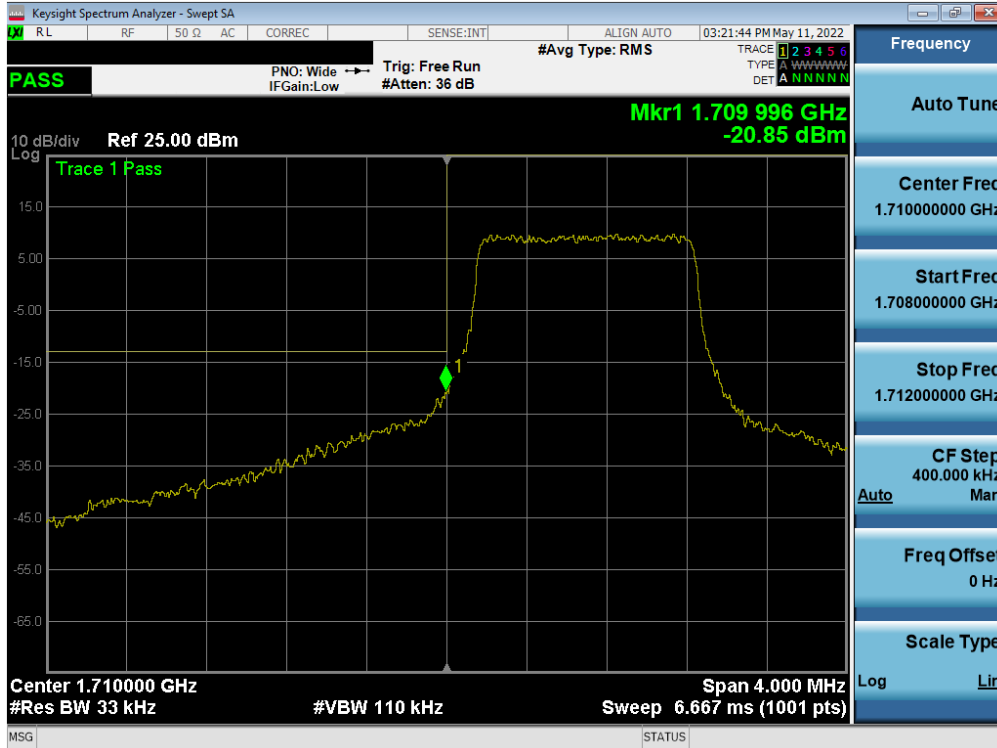


Plot 7-245. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - Ant F)

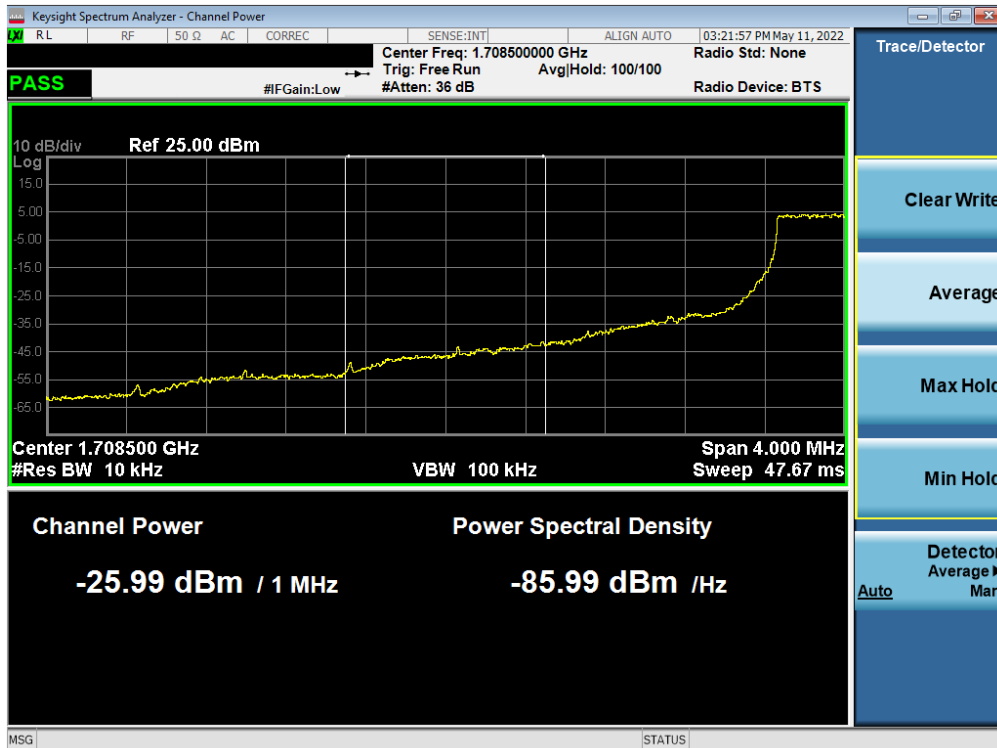


Plot 7-246. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-247. Lower Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB - Ant F)

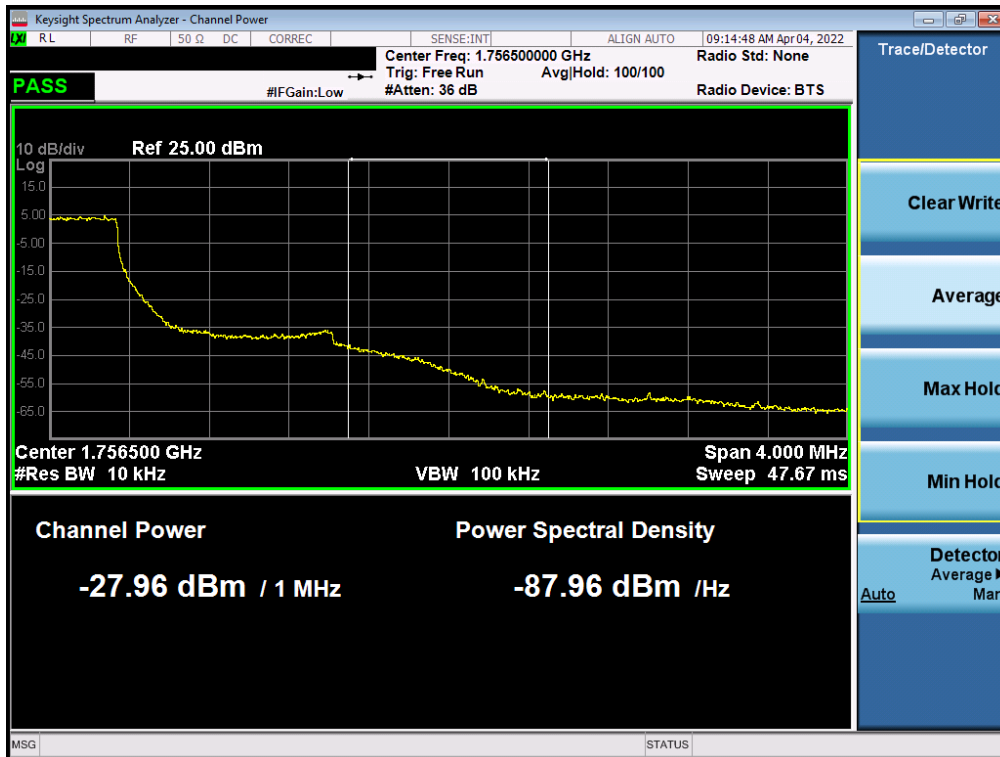


Plot 7-248. Lower Extended Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 148 of 238



Plot 7-249. Upper Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB - Ant F)

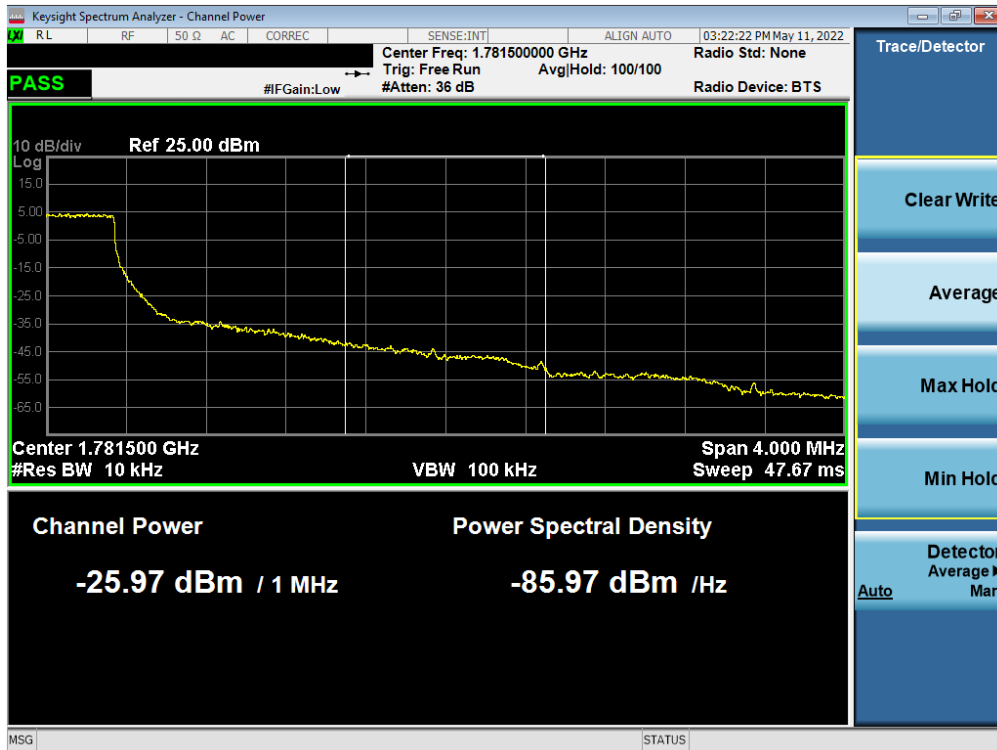


Plot 7-250. Upper Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 149 of 238



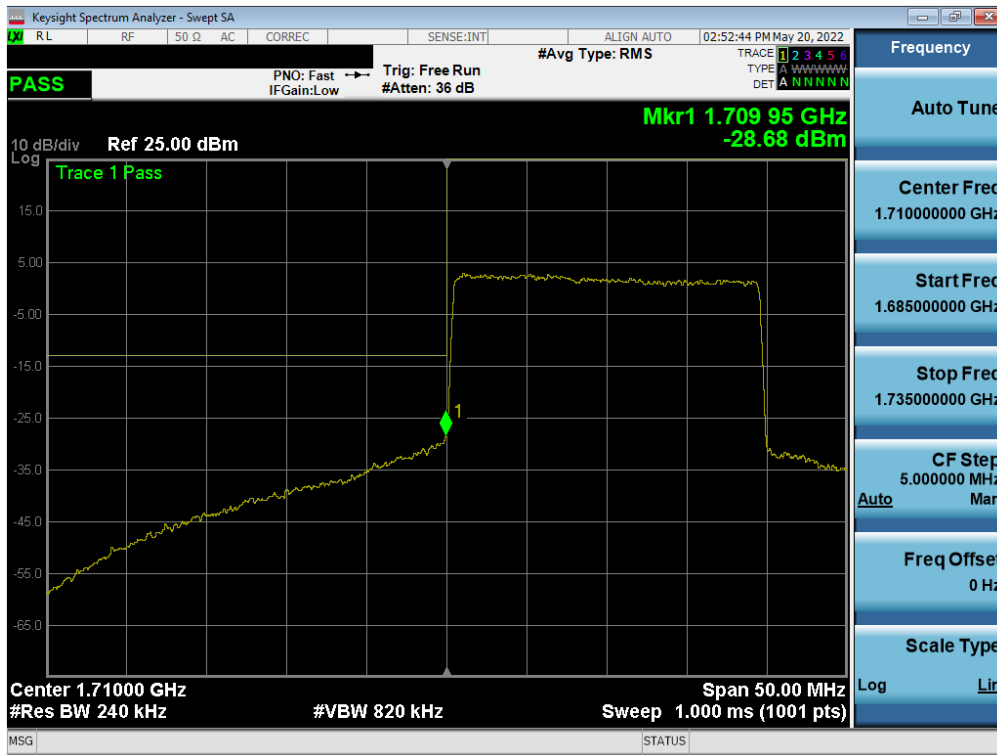
Plot 7-251. Upper Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB - Ant F)



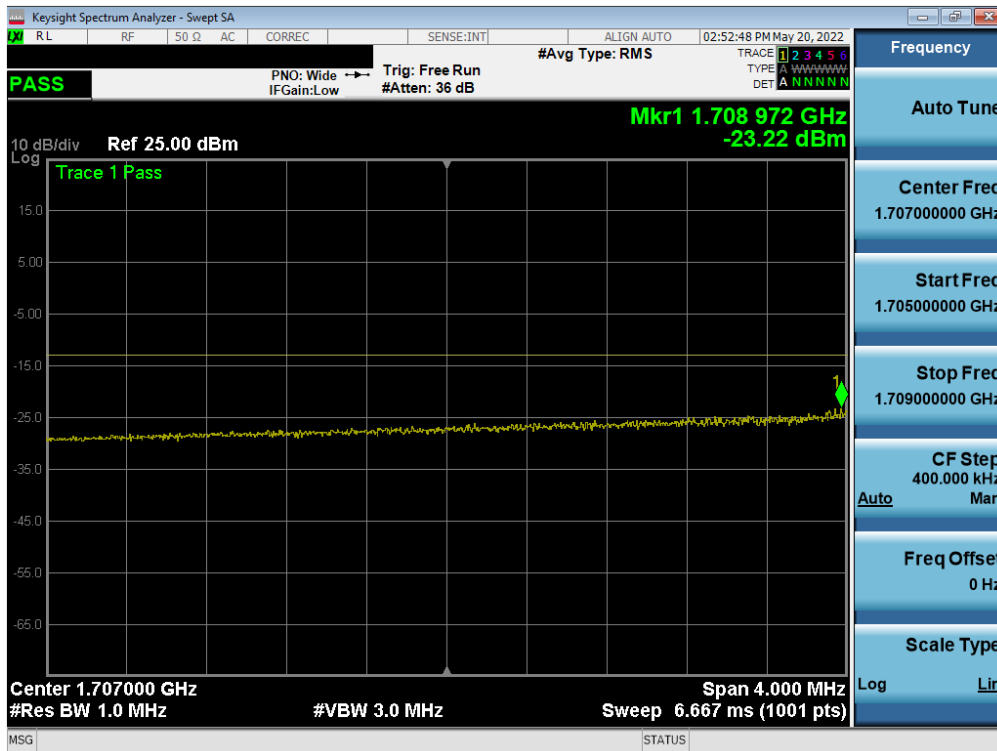
Plot 7-252. Upper Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – Ant F



Plot 7-253. Lower Band Edge Plot (NR Band n66 – 20.0MHz - Full RB - Ant F)

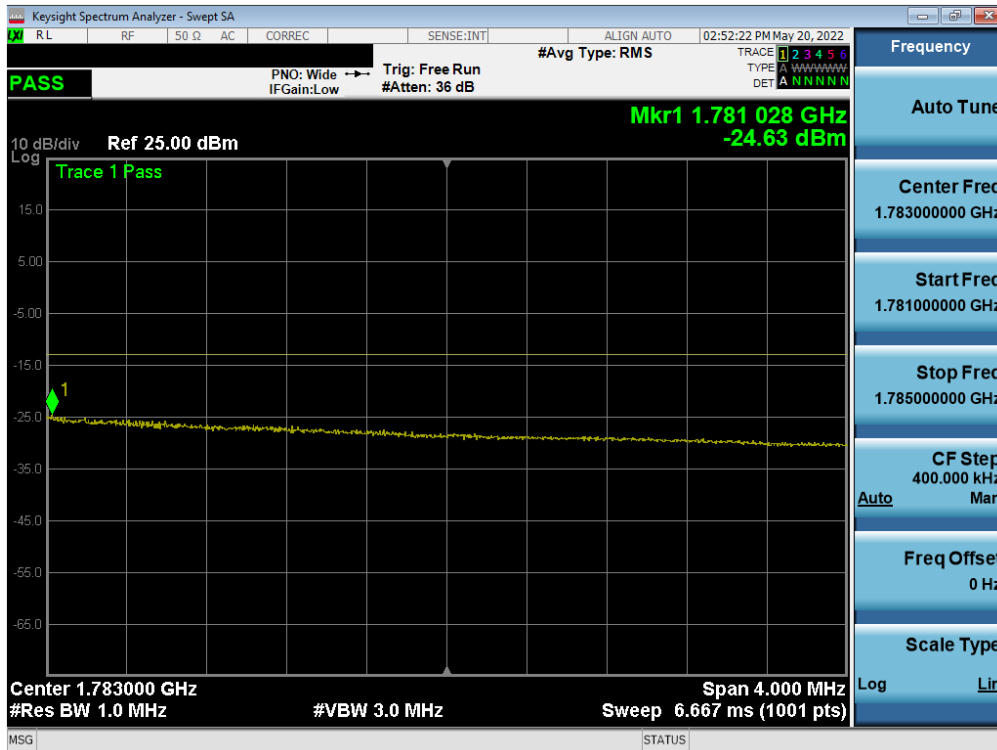


Plot 7-254. Lower Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-255. Upper Band Edge Plot (NR Band n66 – 20.0MHz - Full RB - Ant F)

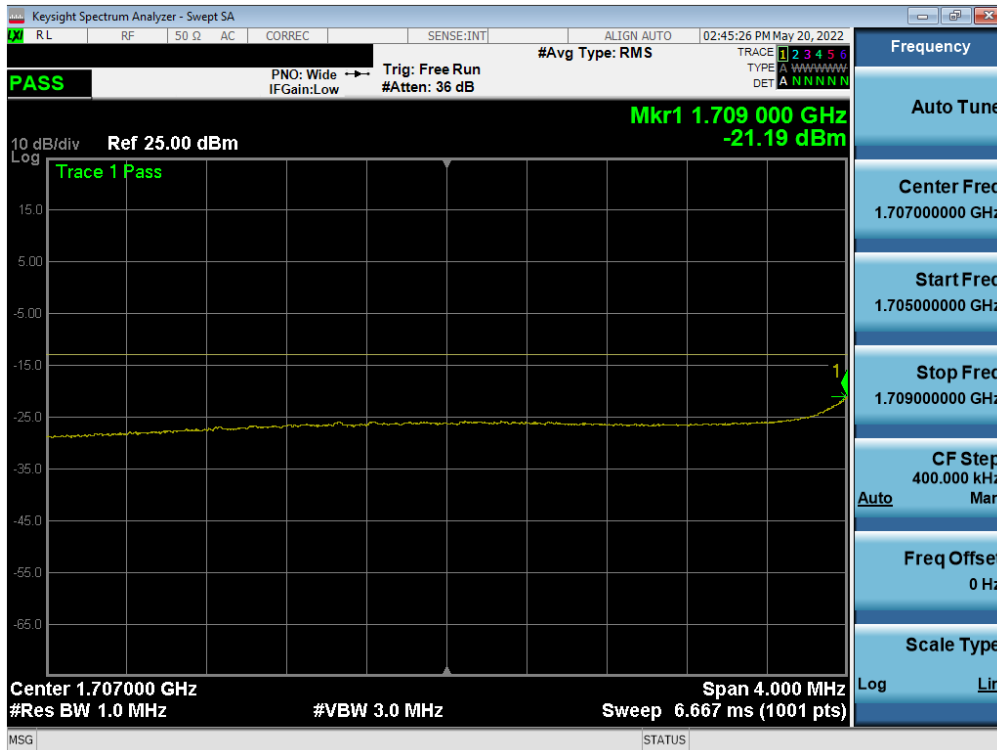


Plot 7-256. Upper Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 152 of 238

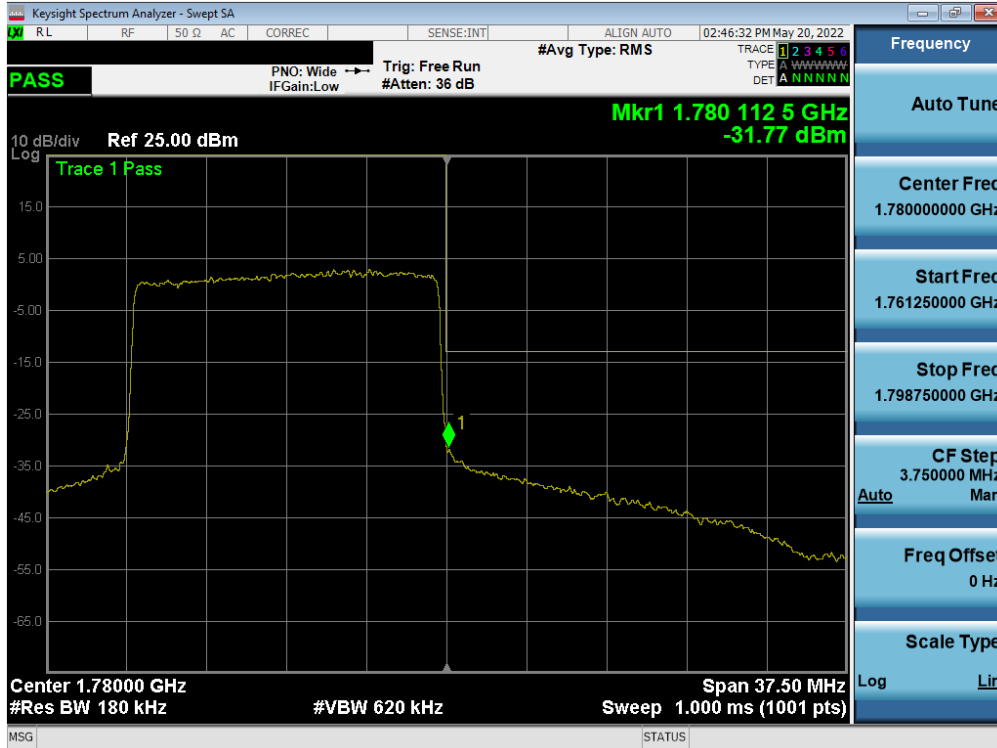


Plot 7-257. Lower Band Edge Plot (NR Band n66 – 15.0MHz - Full RB - Ant F)

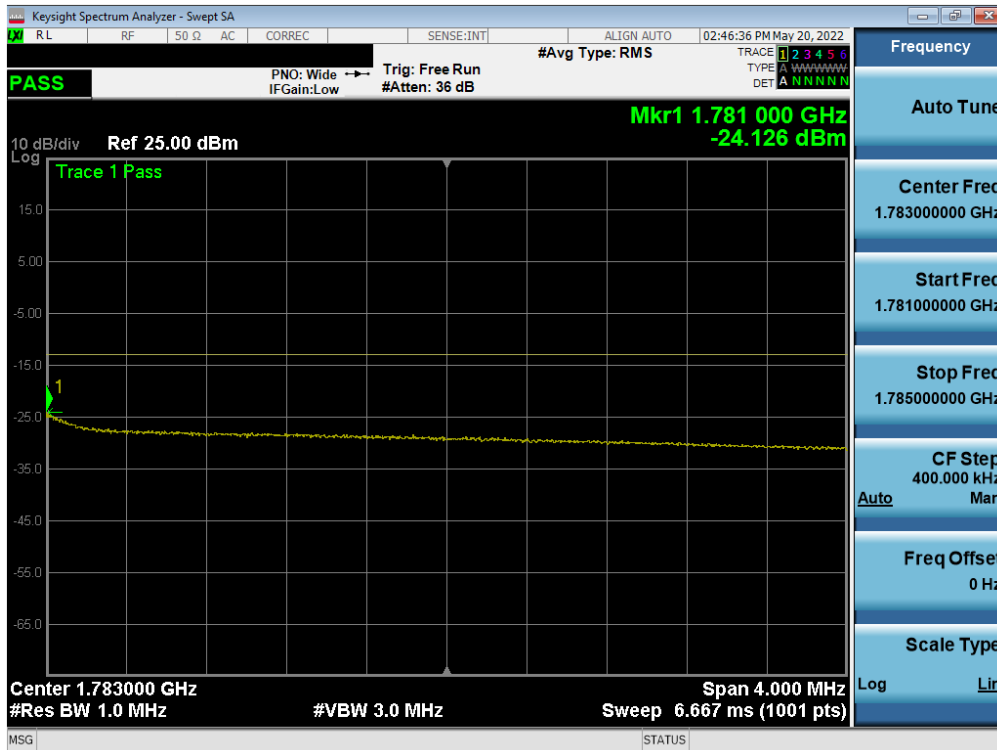


Plot 7-258. Lower Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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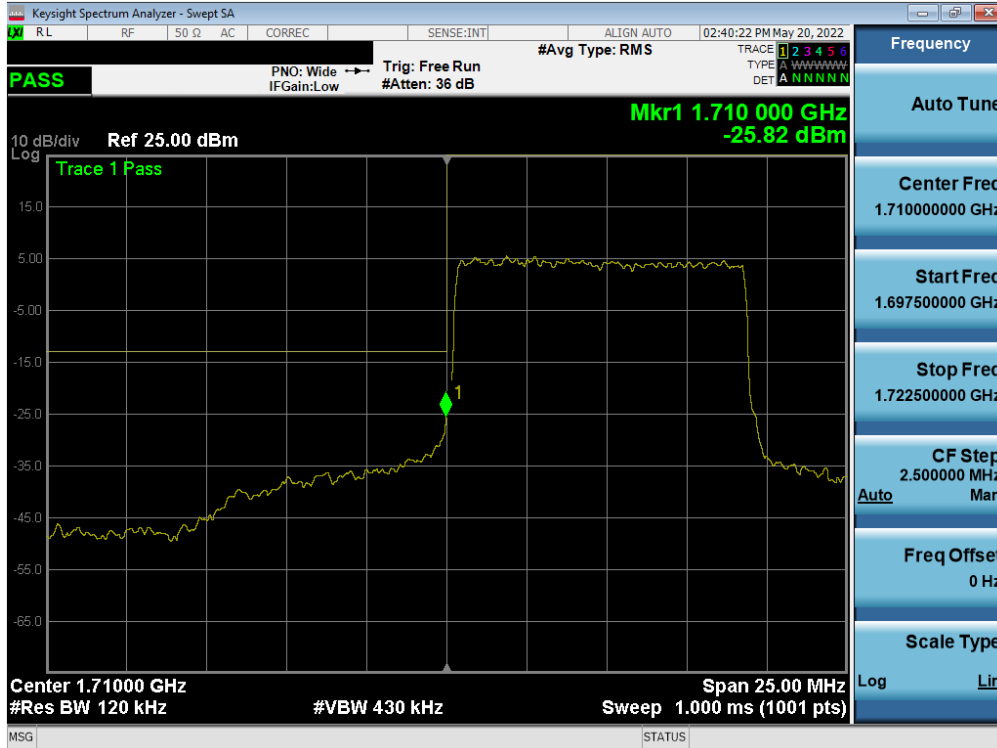


Plot 7-259. Upper Band Edge Plot (NR Band n66 – 15.0MHz - Full RB - Ant F)

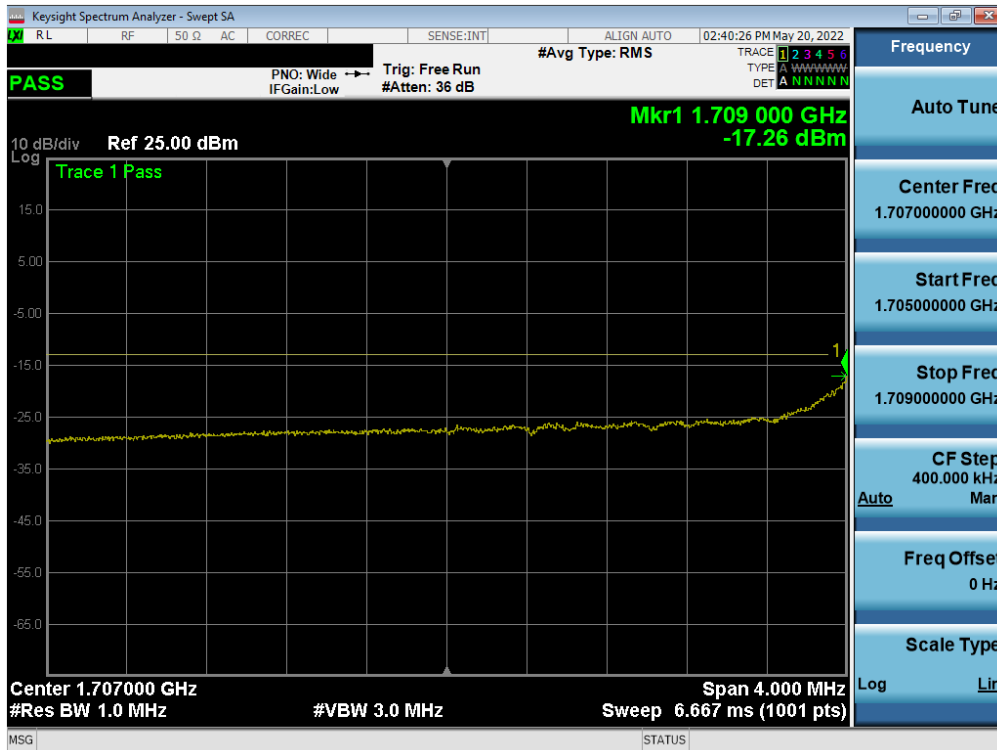


Plot 7-260. Upper Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 154 of 238

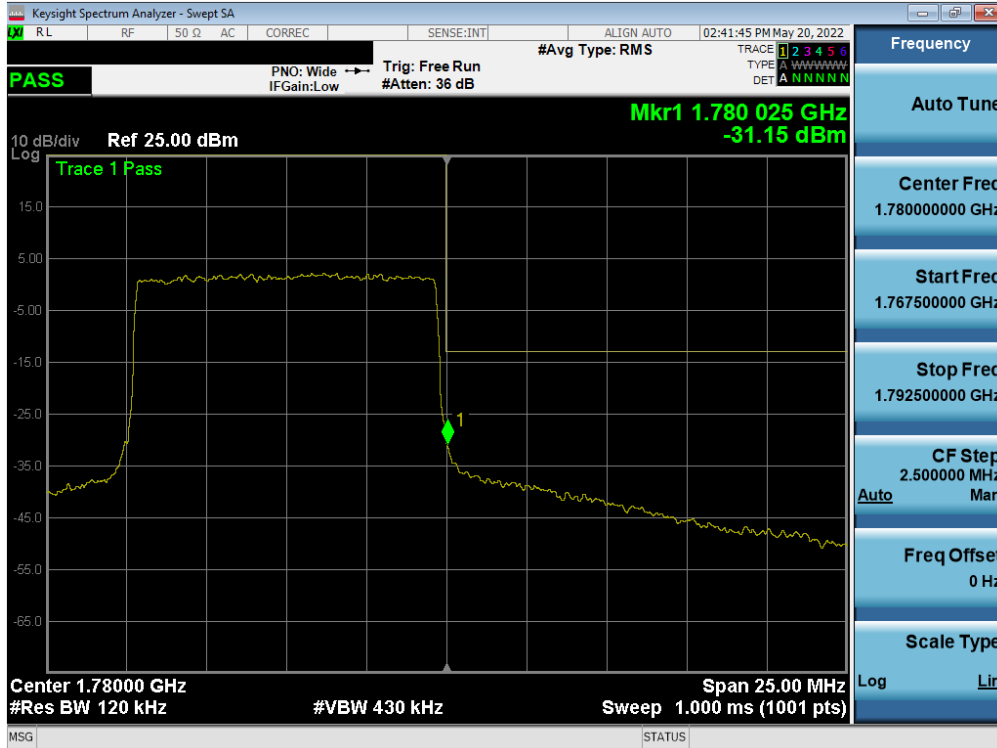


Plot 7-261. Lower Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - Ant F)

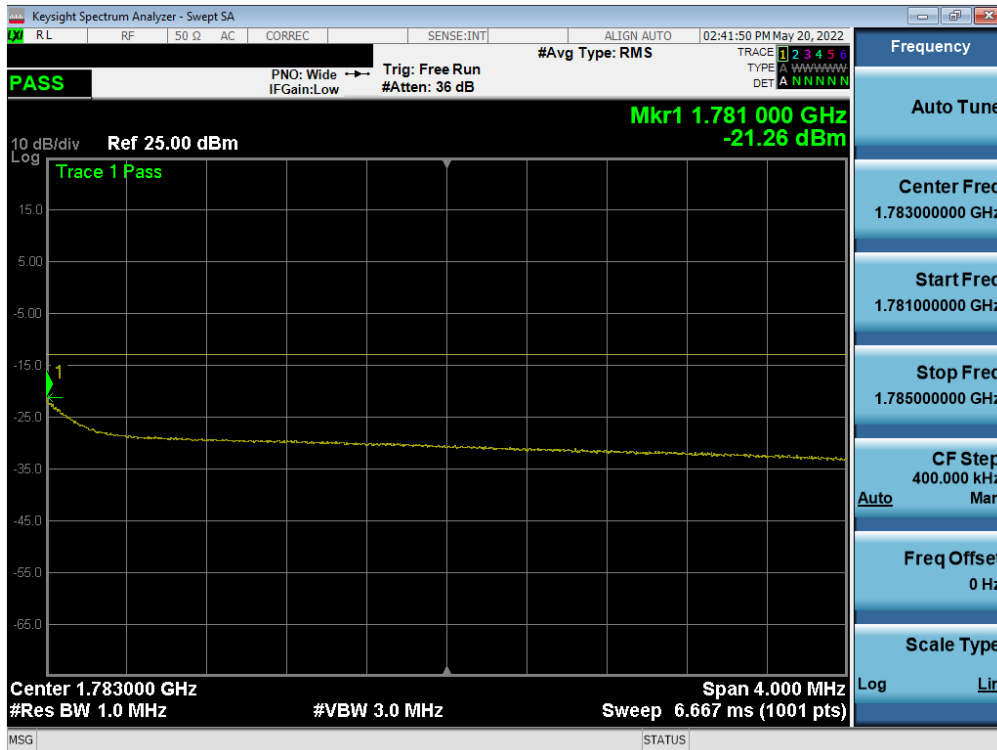


Plot 7-262. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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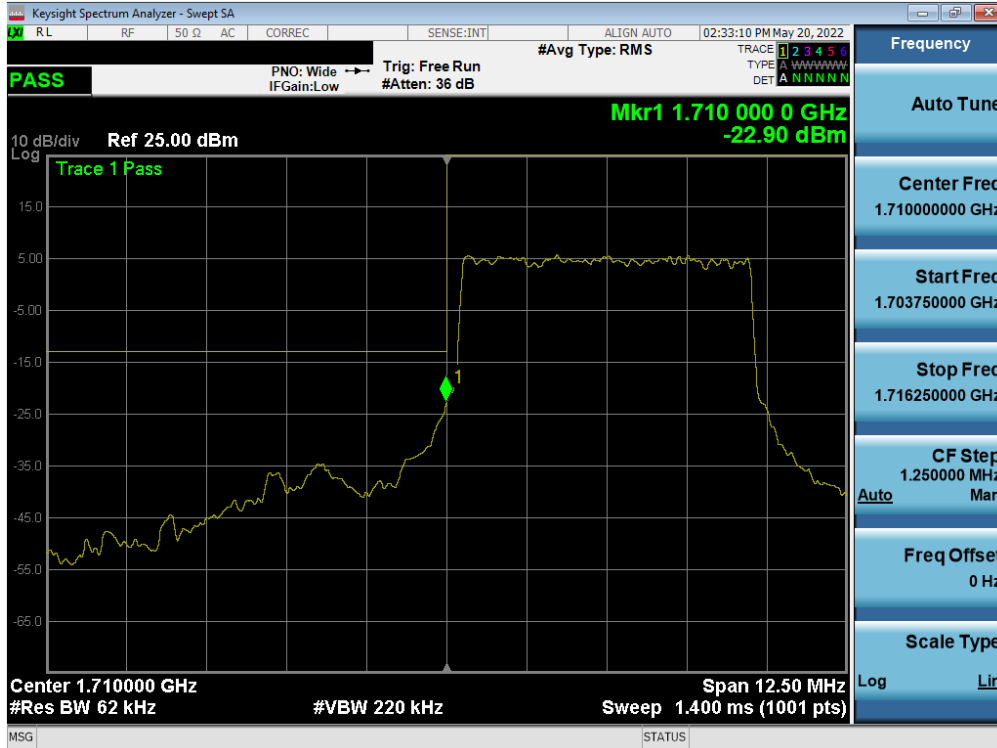


Plot 7-263. Upper Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - Ant F)

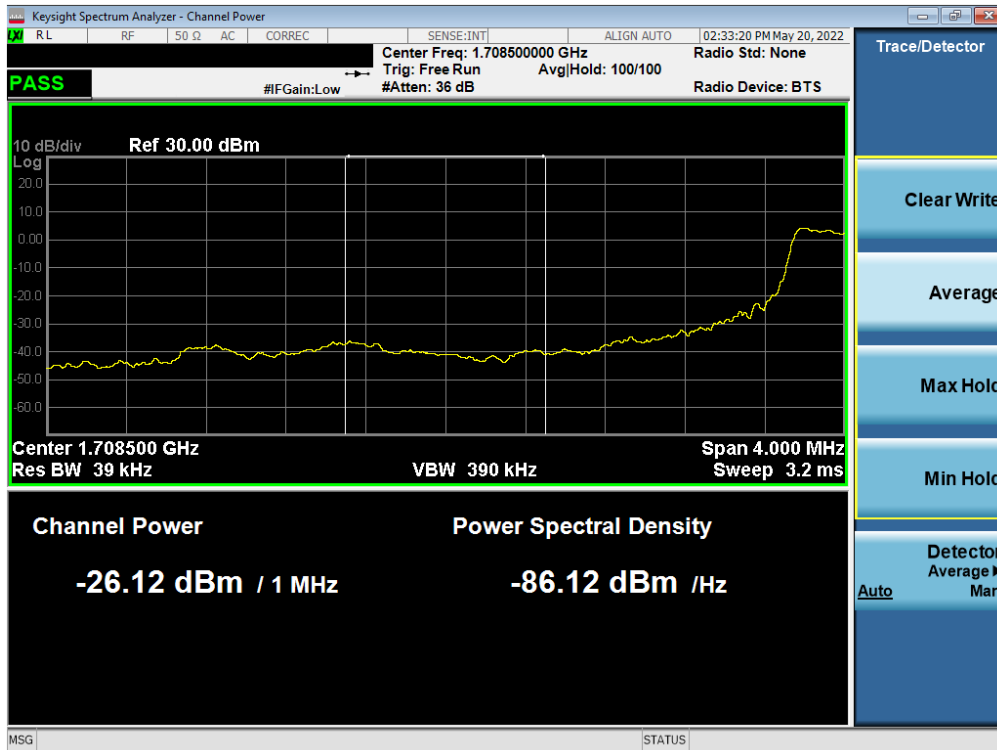


Plot 7-264. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-265. Lower Band Edge Plot (NR Band n66 – 5.0MHz - Full RB - Ant F)

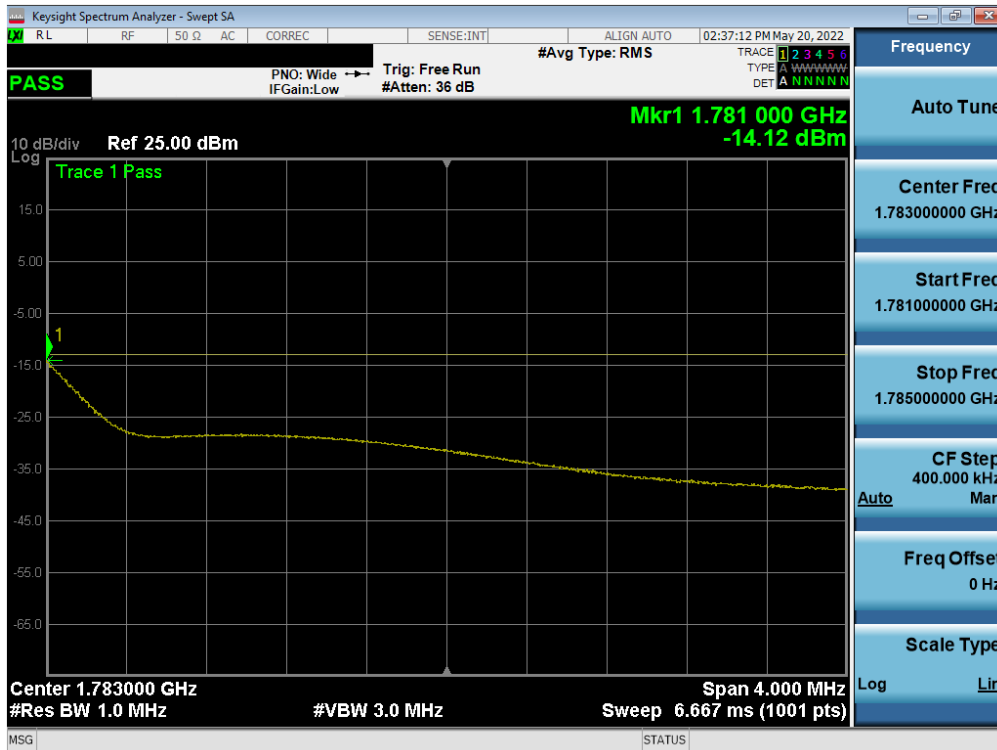


Plot 7-266. Lower Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-267. Upper Band Edge Plot (NR Band n66 – 5.0MHz - Full RB - Ant F)



Plot 7-268. Upper Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB - Ant F)

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7.6 Peak-Average Ratio

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

ANSI C63.26-2015 – Section 5.2.3.4

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

Test Setup

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

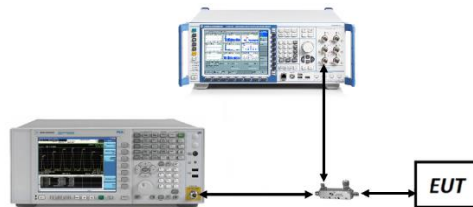


Figure 7-5. Test Instrument & Measurement Setup

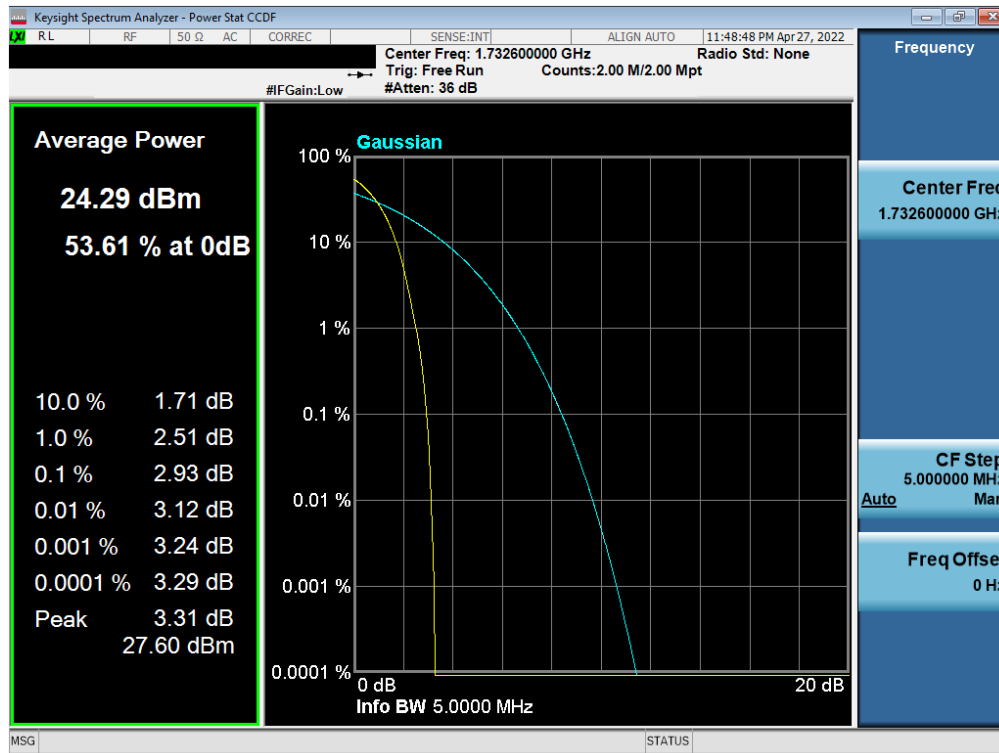
Test Notes

None.

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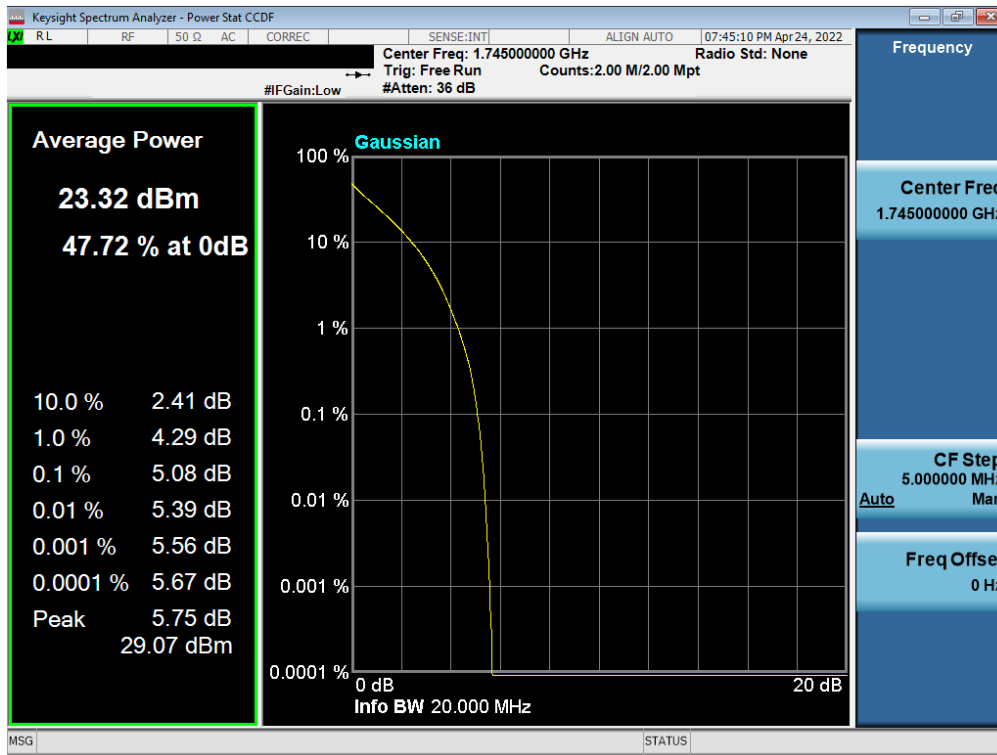
V3.0 1/5/2022

WCDMA AWS – Ant B

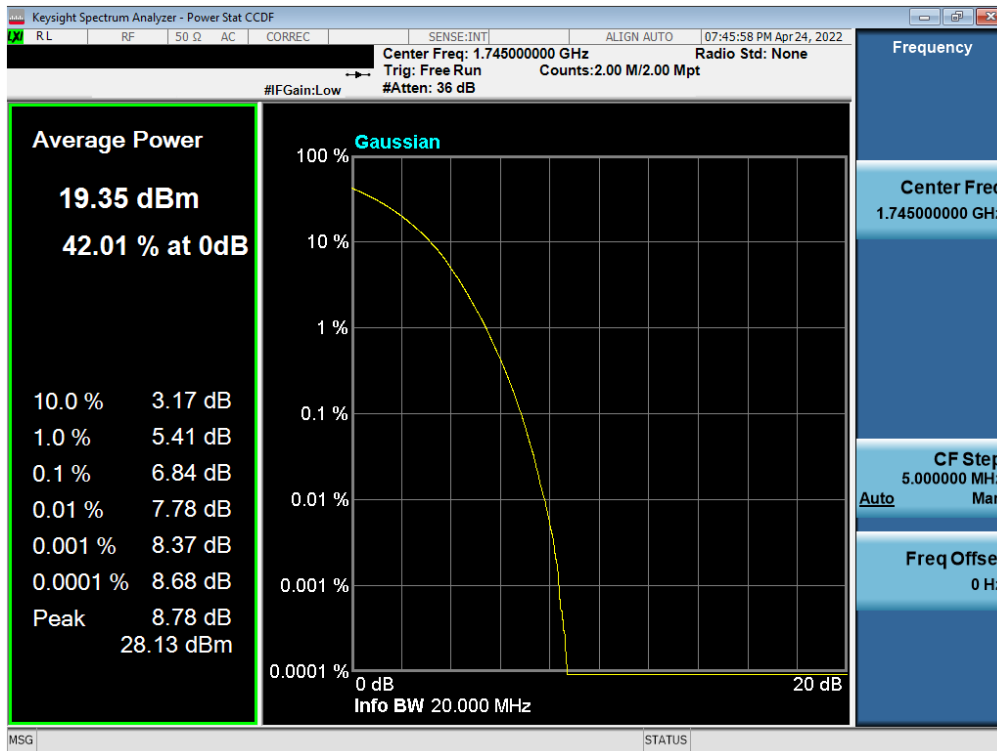


FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – Ant B

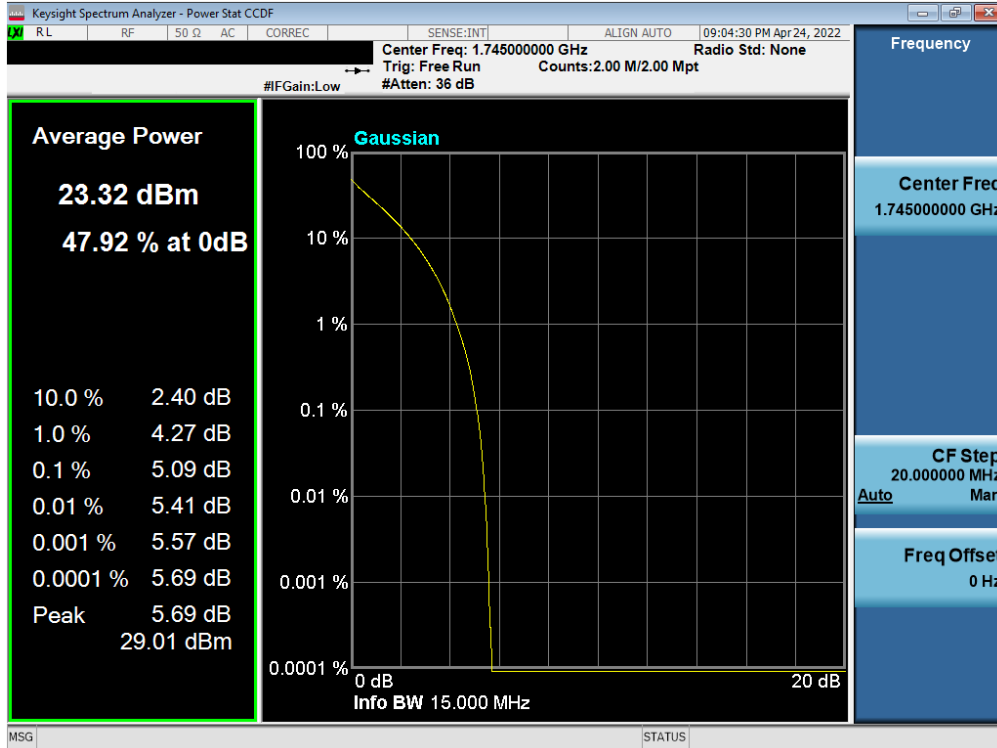


Plot 7-270. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - Ant B)

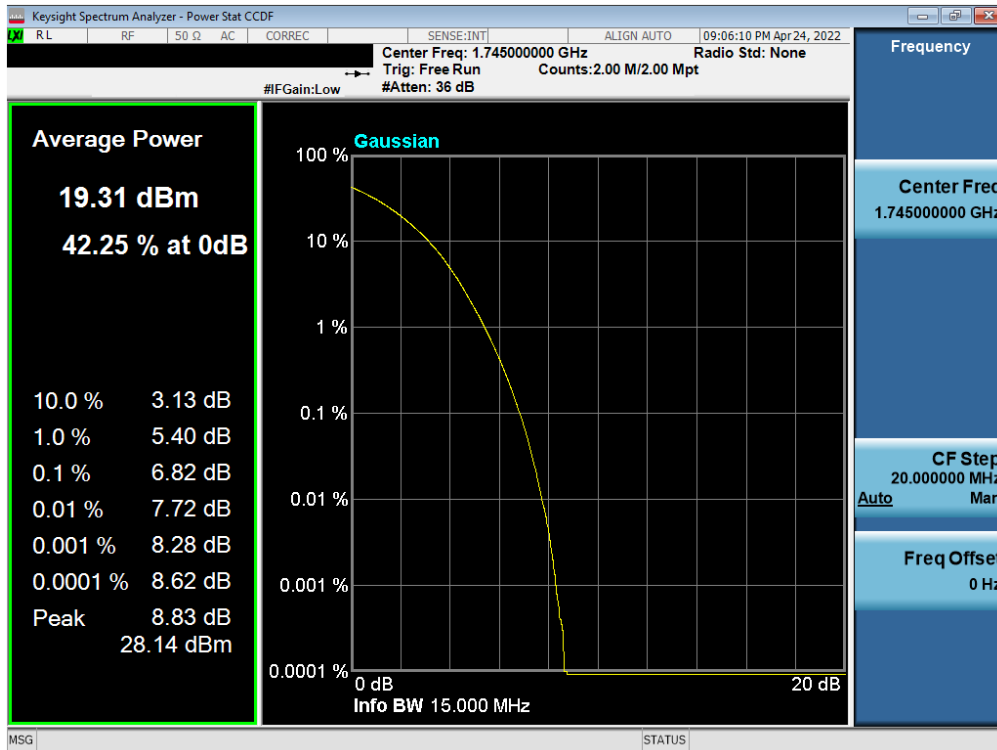


Plot 7-271. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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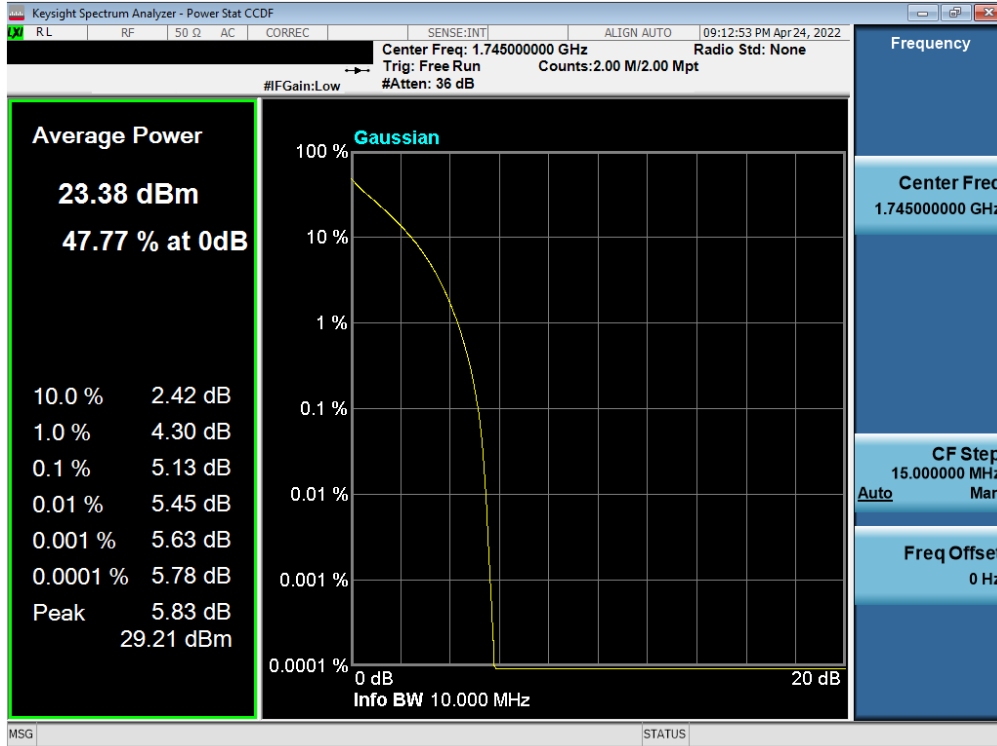


Plot 7-272. PAR Plot (LTE Band 66/4 - 15MHz QPSK - Full RB - Ant B)

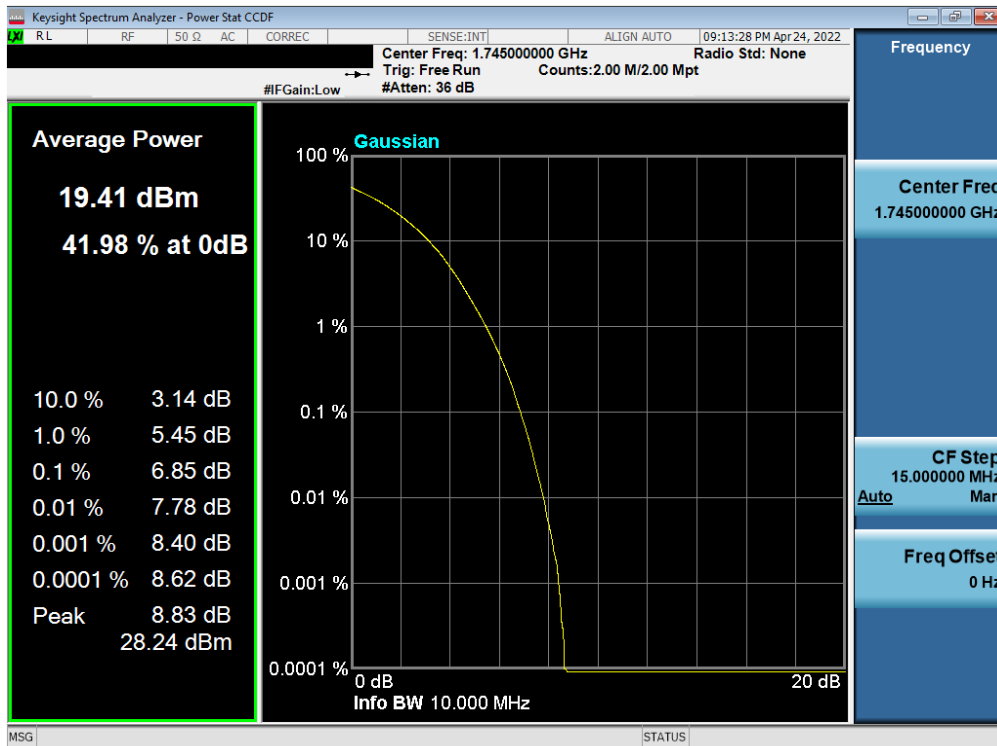


Plot 7-273. PAR Plot (LTE Band 66/4 - 15MHz 256-QAM - Full RB - Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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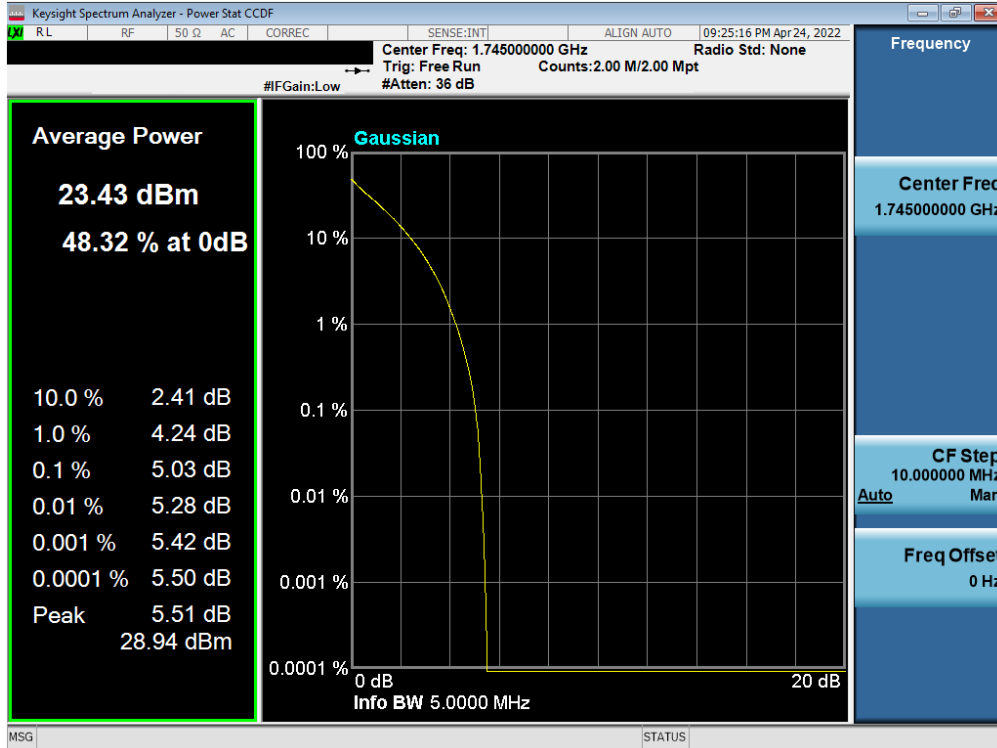


Plot 7-274. PAR Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - Ant B)

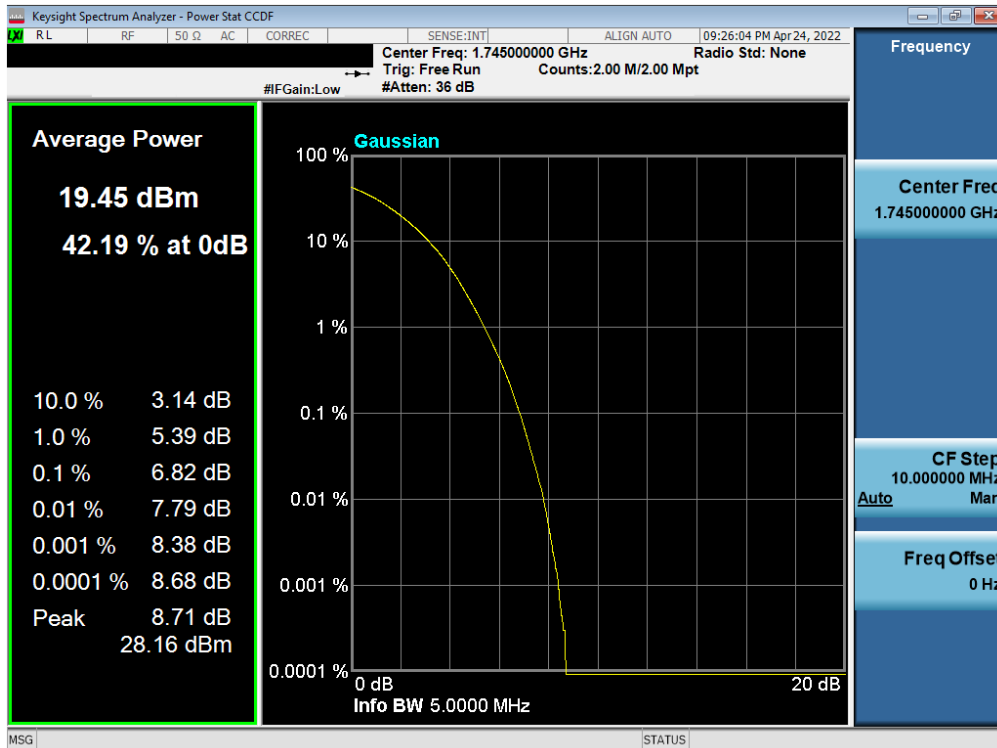


Plot 7-275. PAR Plot (LTE Band 66/4 - 10MHz 256-QAM - Full RB - Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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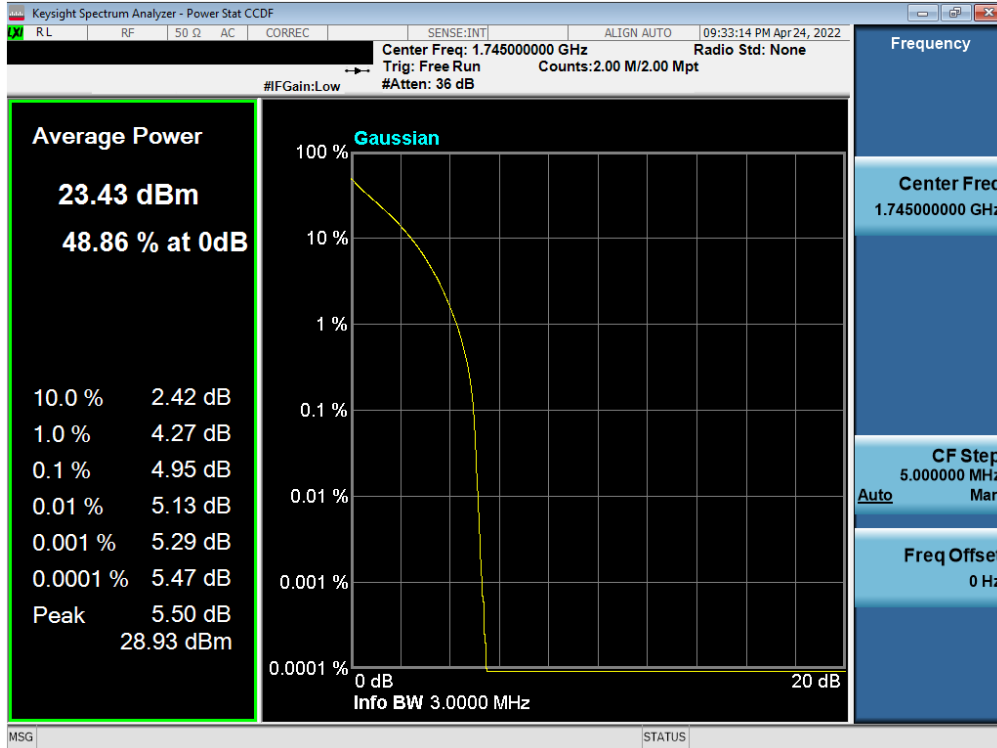


Plot 7-276. PAR Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - Ant B)

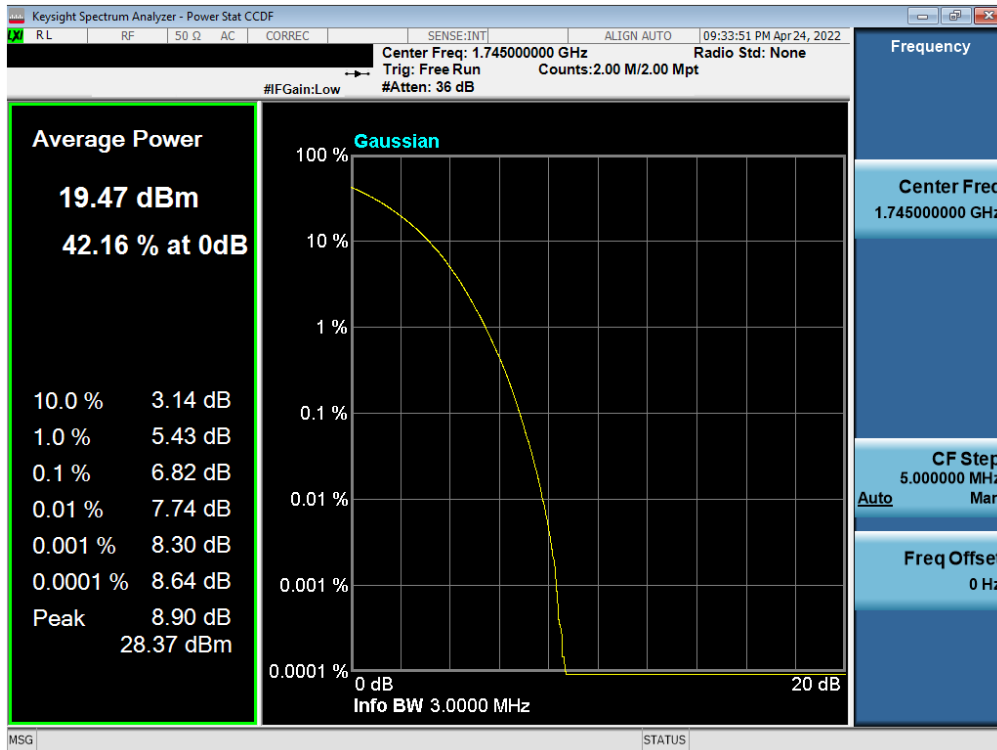


Plot 7-277. PAR Plot (LTE Band 66/4 - 5MHz 256-QAM - Full RB - Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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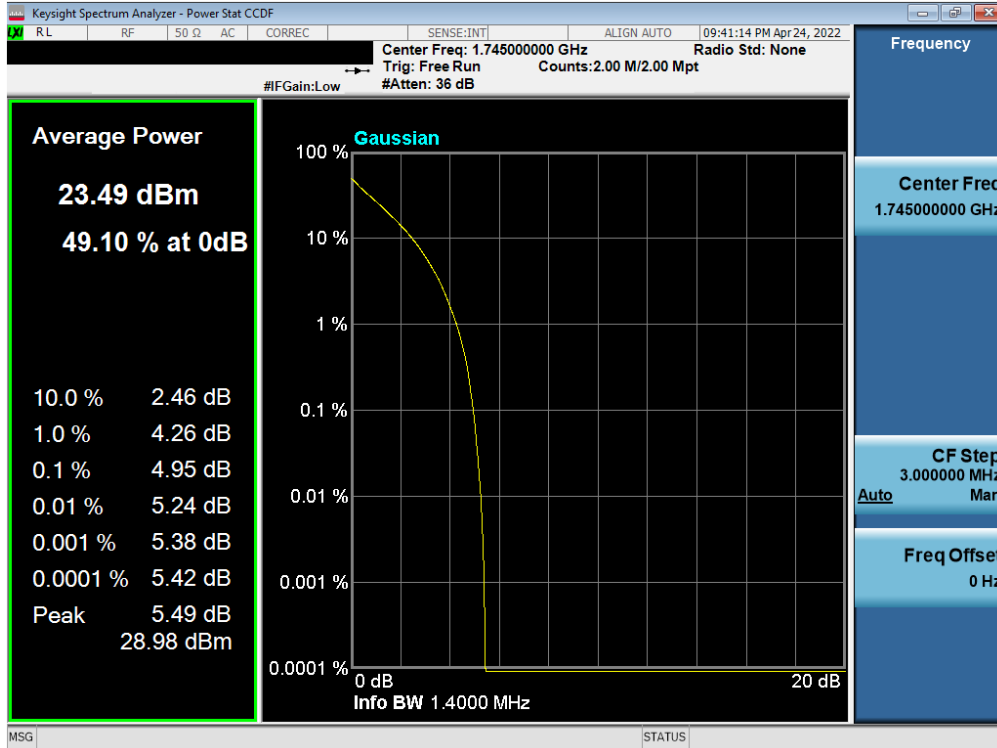


Plot 7-278. PAR Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - Ant B)

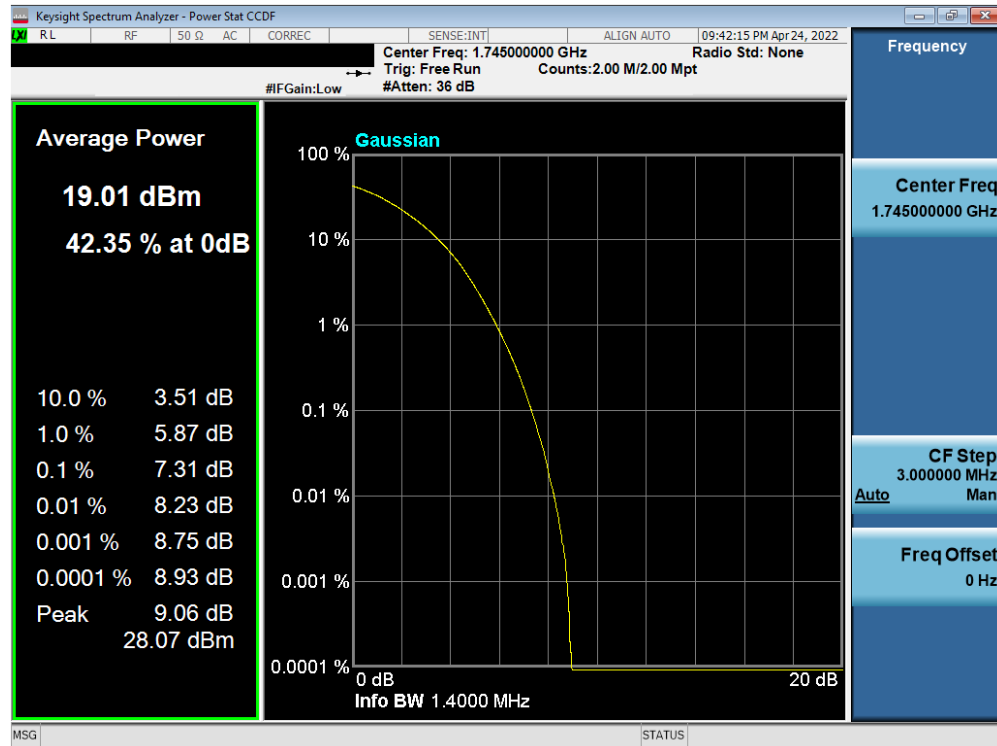


Plot 7-279. PAR Plot (LTE Band 66/4 - 3MHz 256-QAM - Full RB - Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 165 of 238



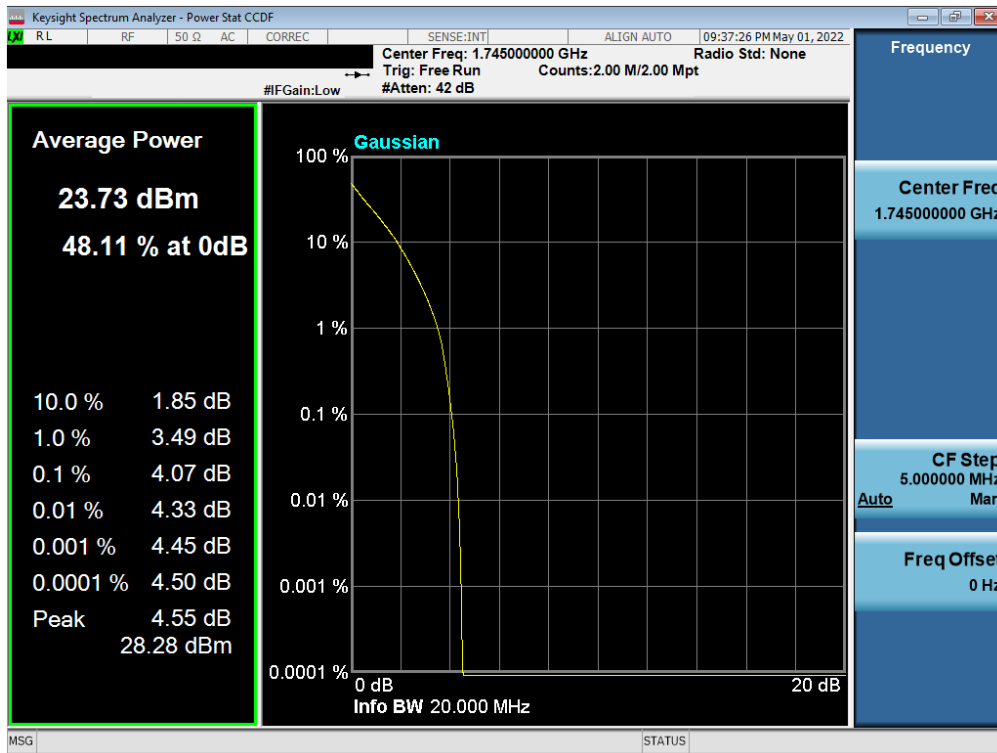
Plot 7-280. PAR Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB - Ant B)



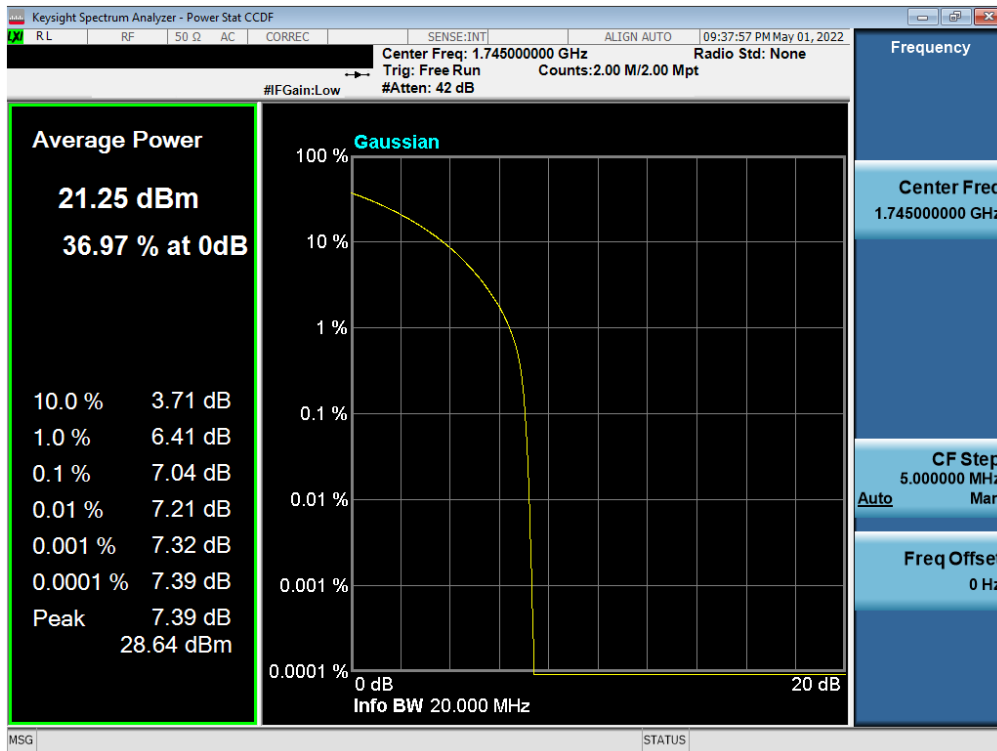
Plot 7-281. PAR Plot (LTE Band 66/4 - 1.4MHz 256-QAM - Full RB - Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 166 of 238

NR Band n66 – Ant B

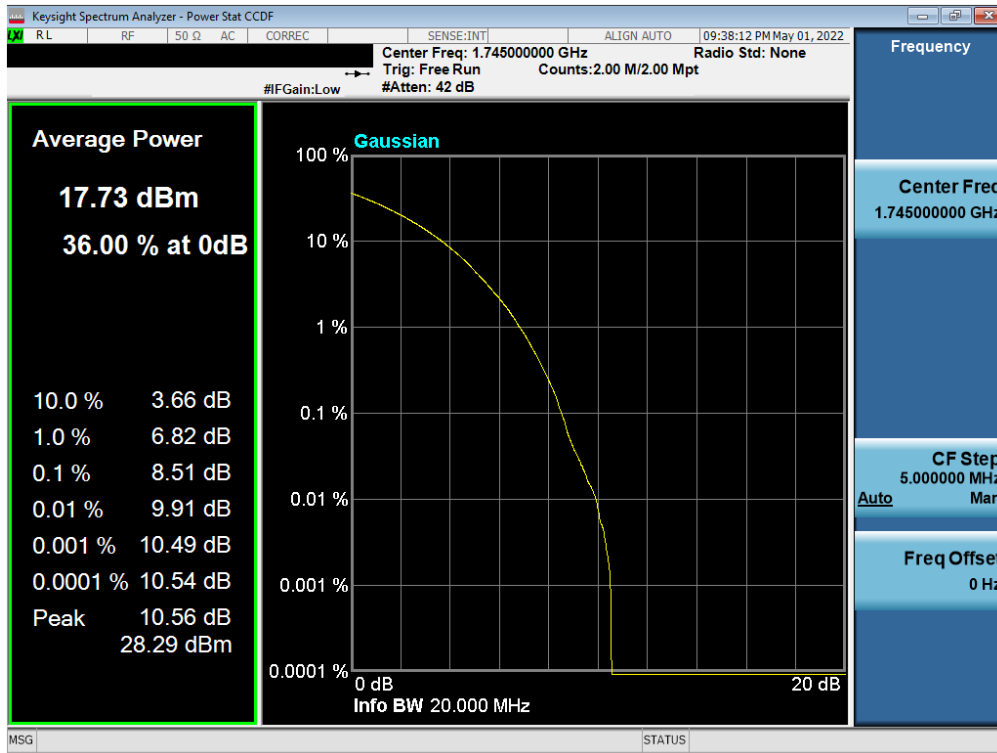


Plot 7-282. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB - Ant B)

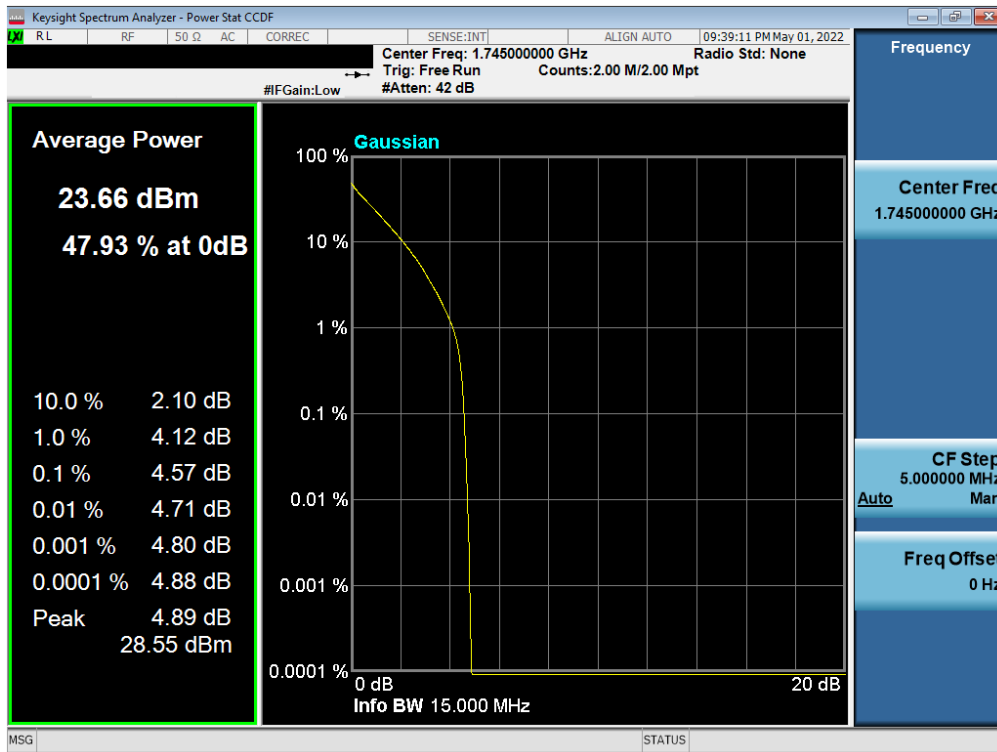


Plot 7-283. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB - Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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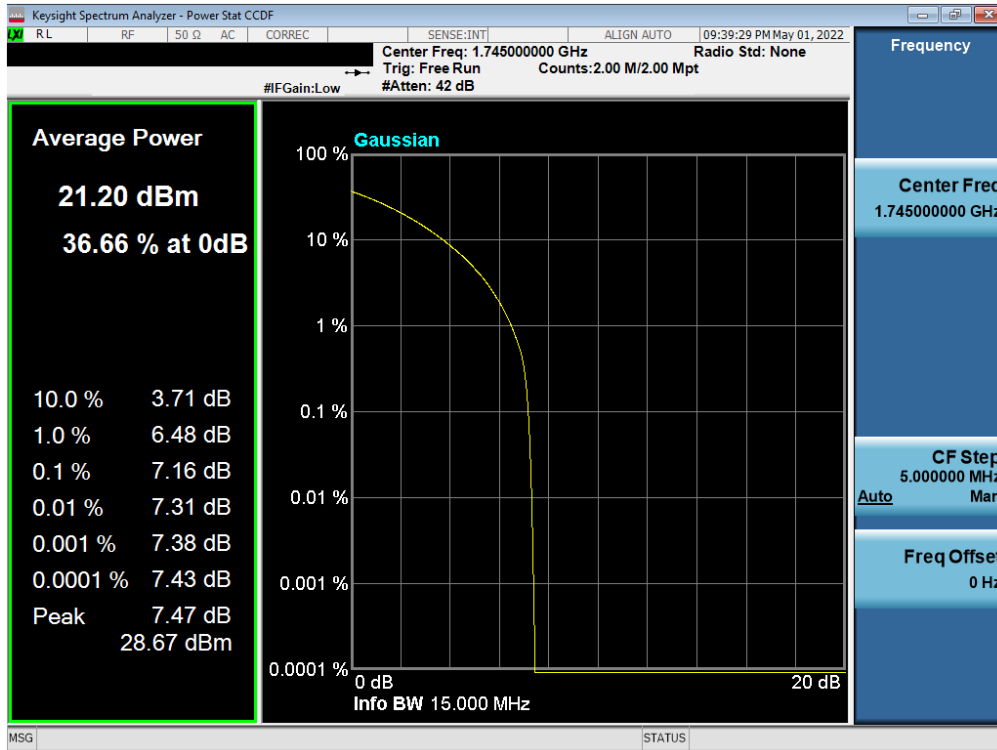


Plot 7-284. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB - Ant B)

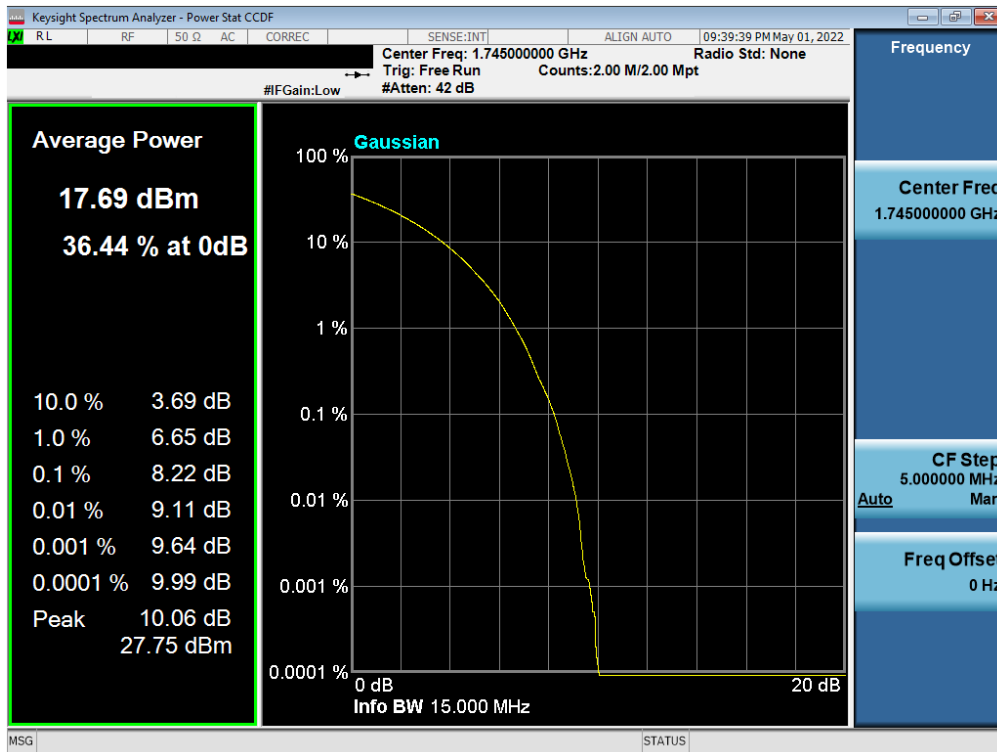


Plot 7-285. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB - Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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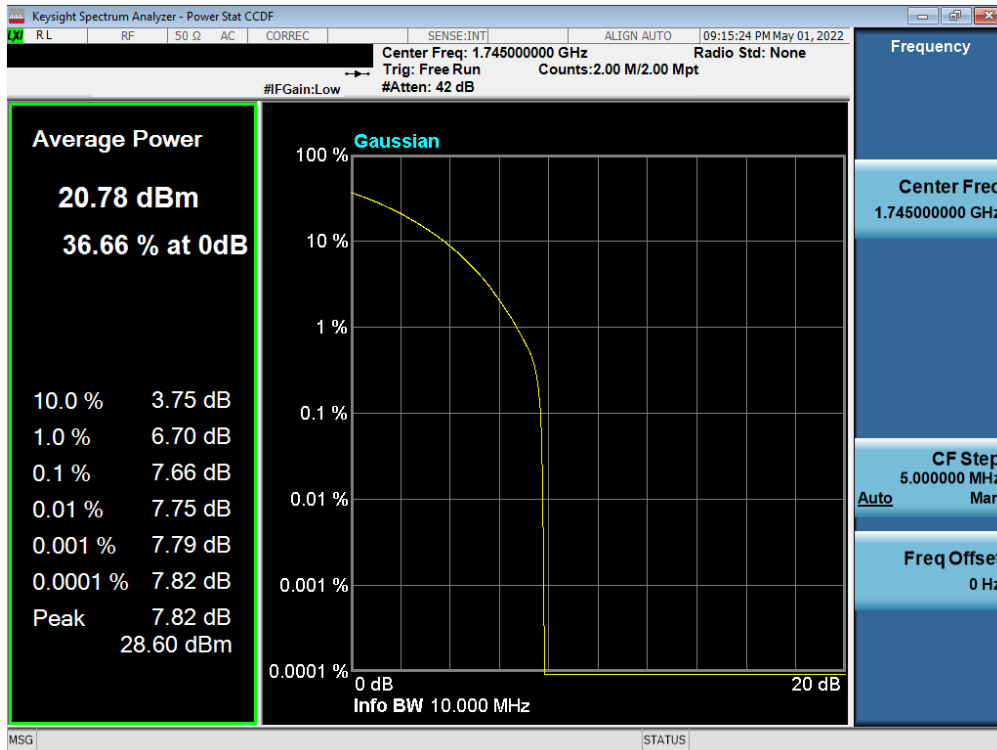
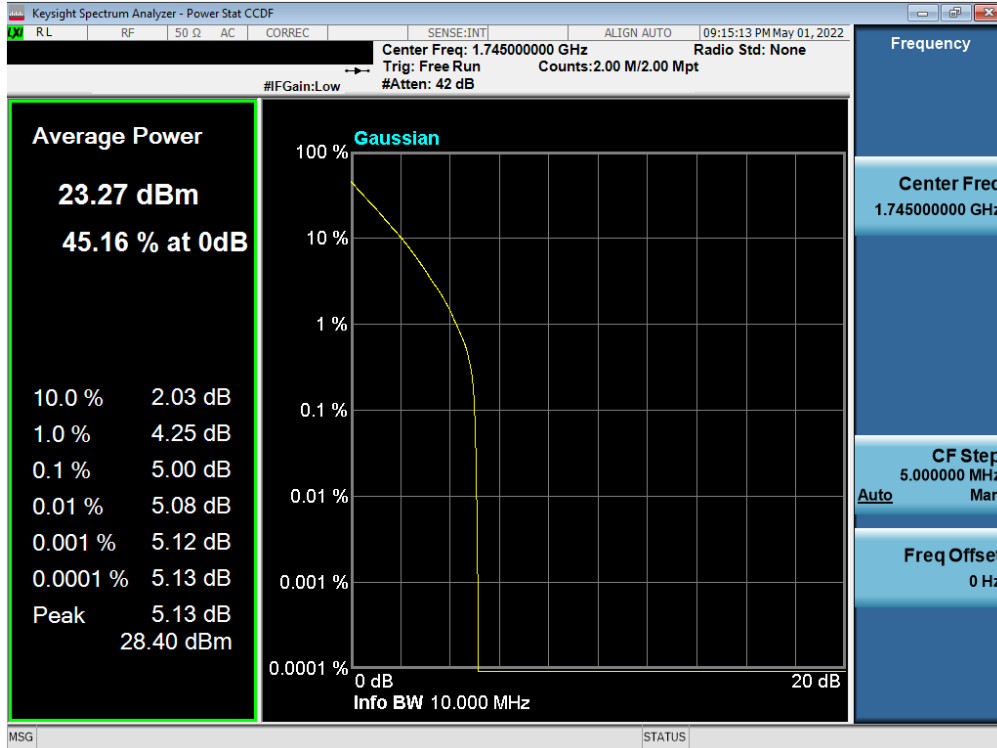


Plot 7-286. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB - Ant B)

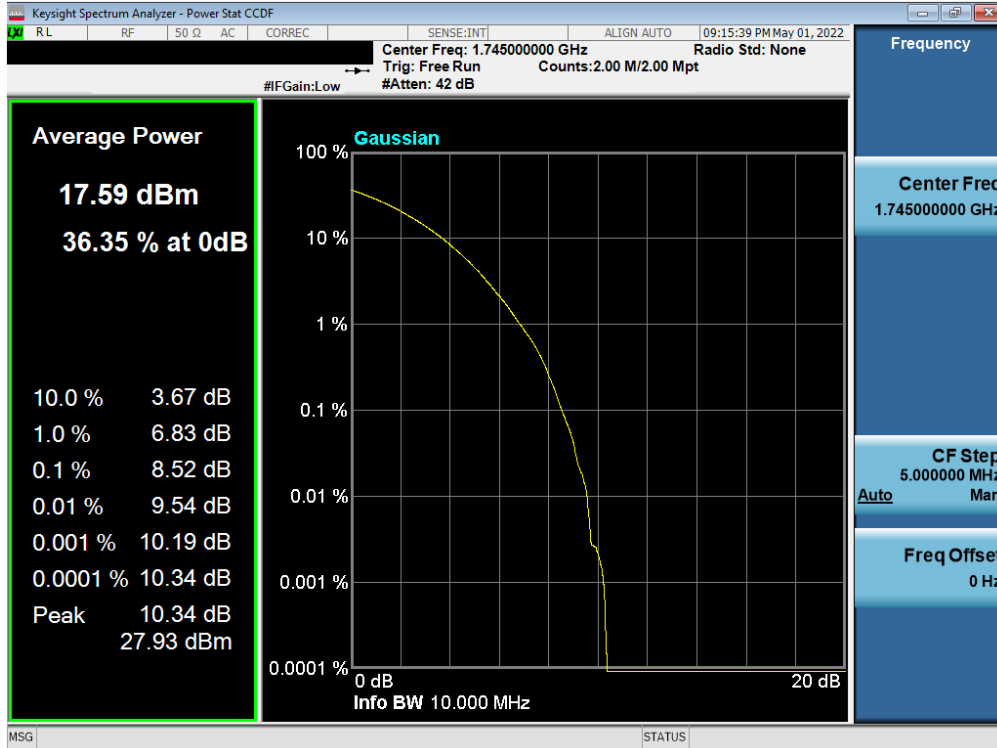


Plot 7-287. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM 256-QAM - Full RB - Ant B)

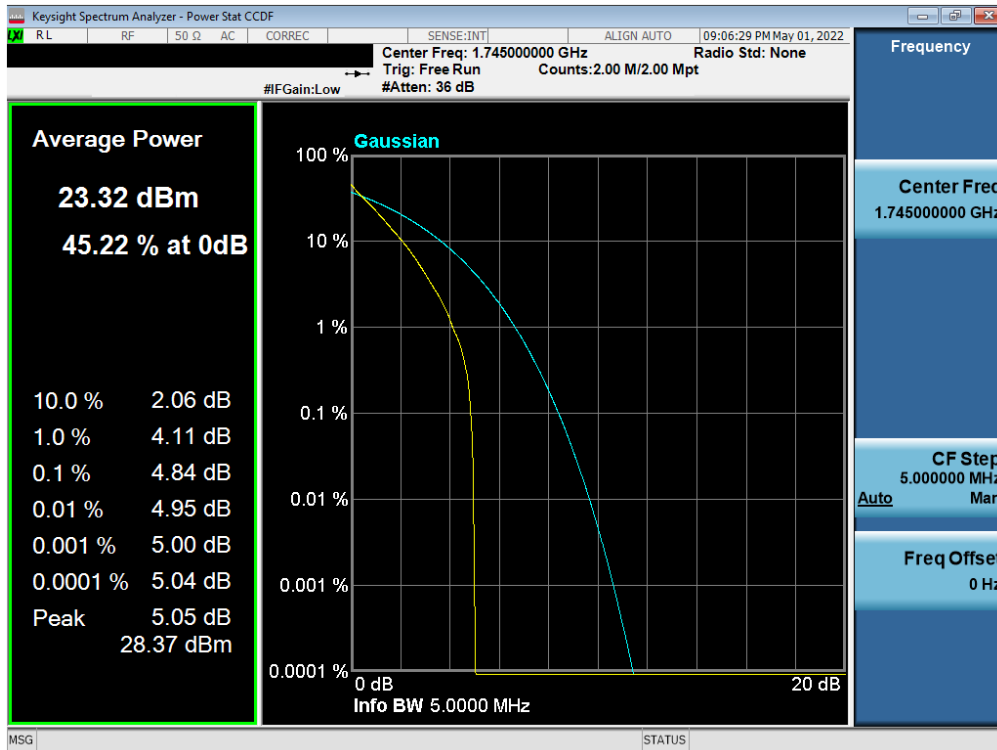
FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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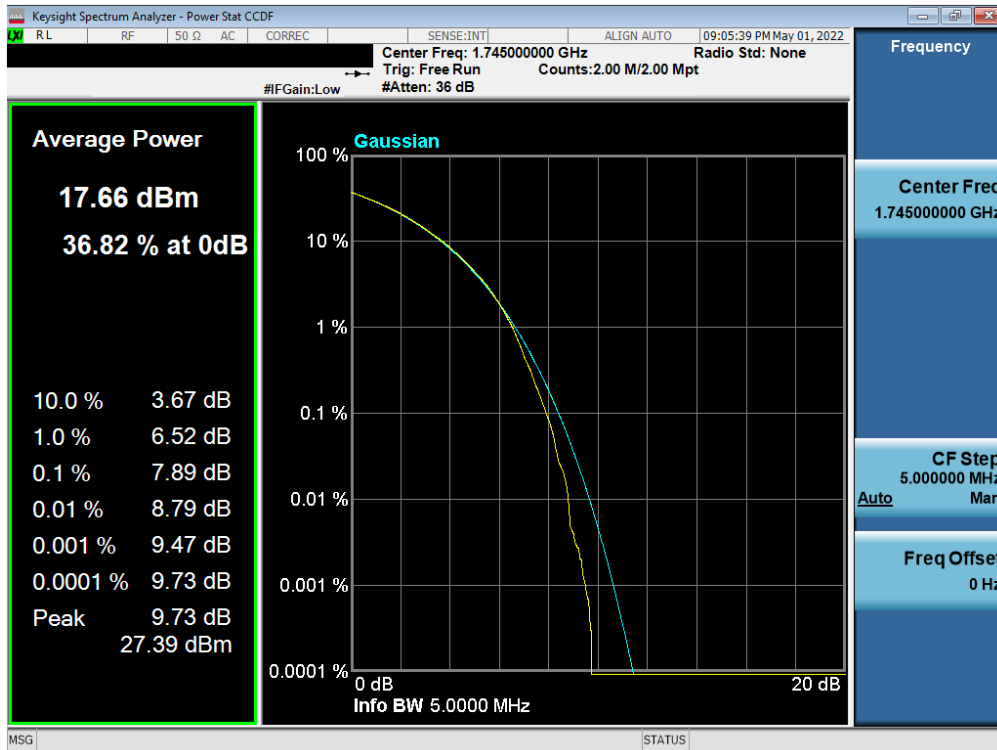
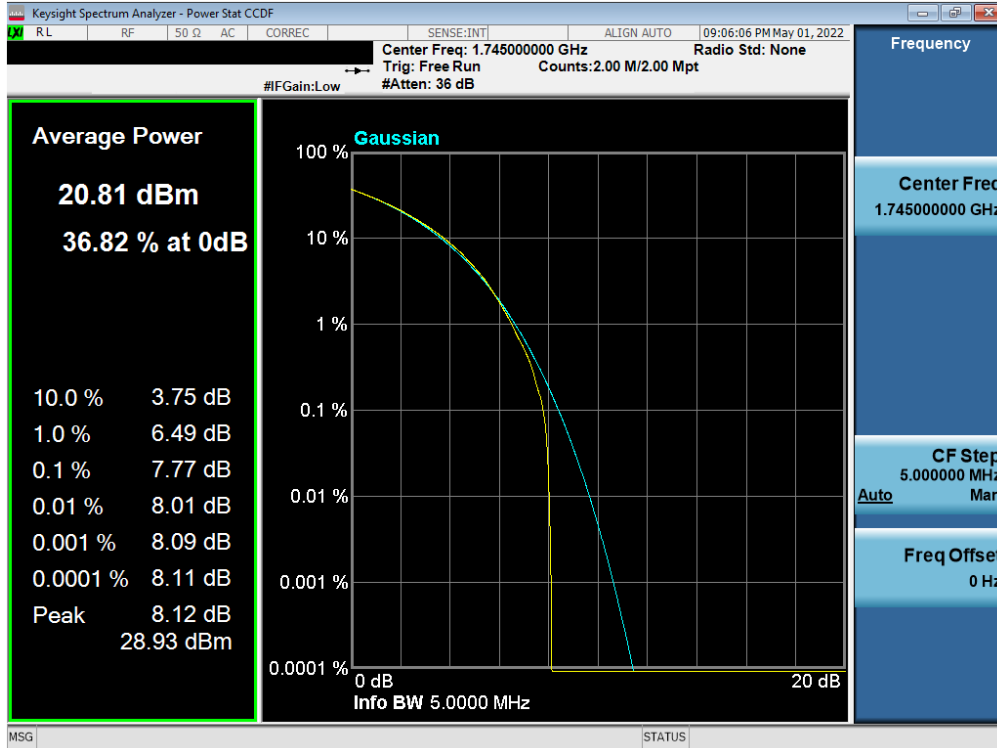


Plot 7-290. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM 256-QAM - Full RB - Ant B)



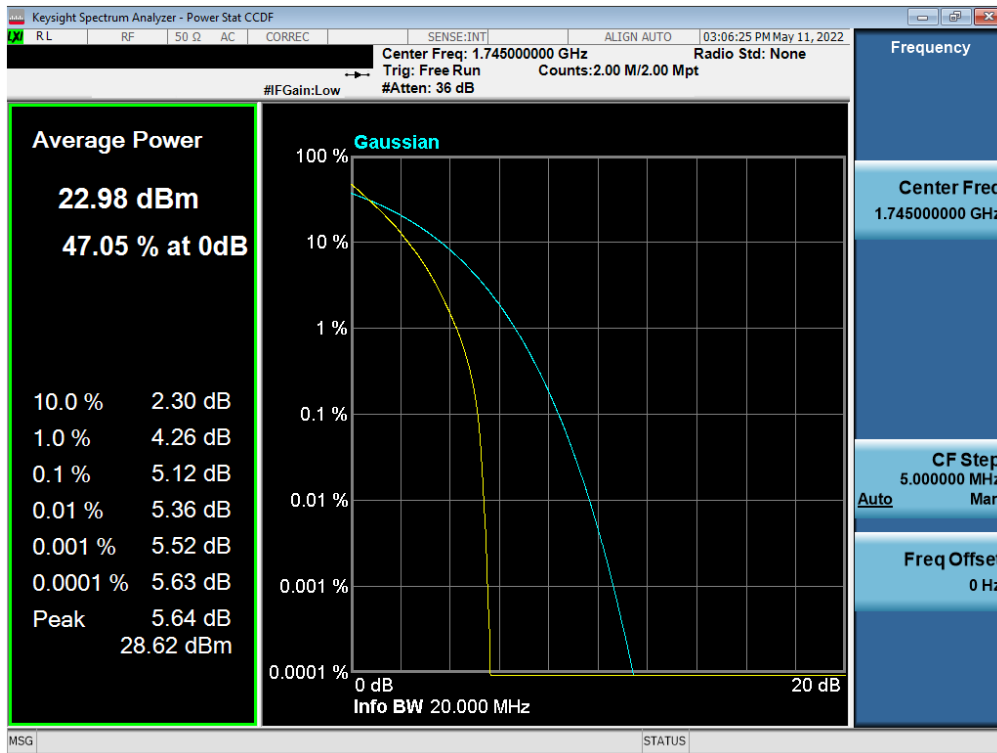
Plot 7-291. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB - Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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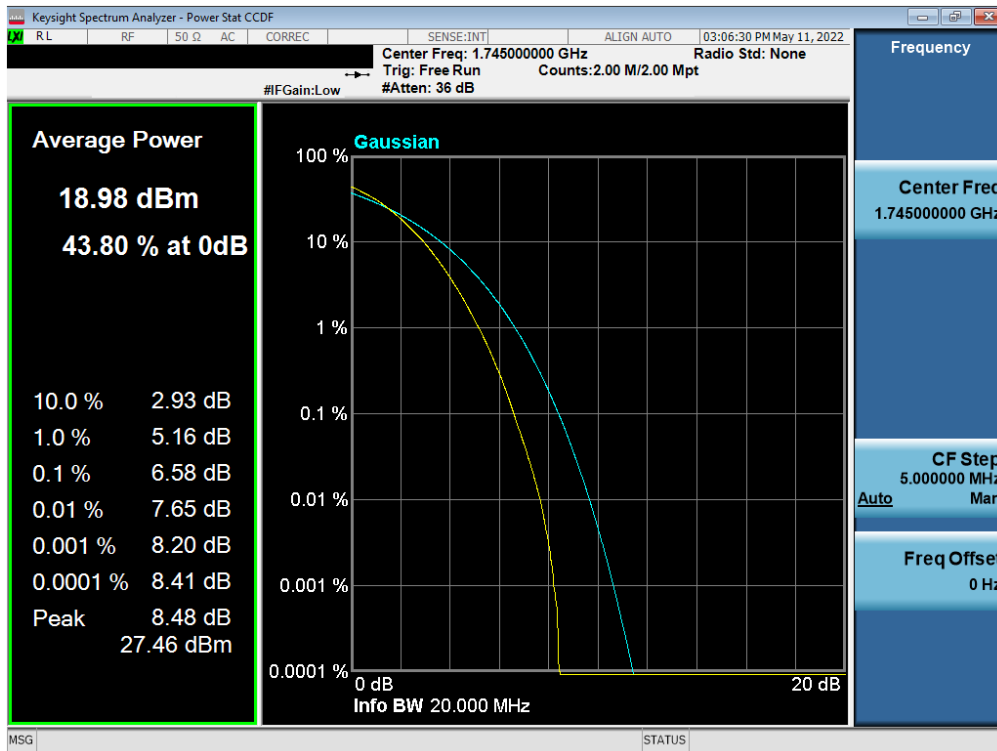


FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – Ant F

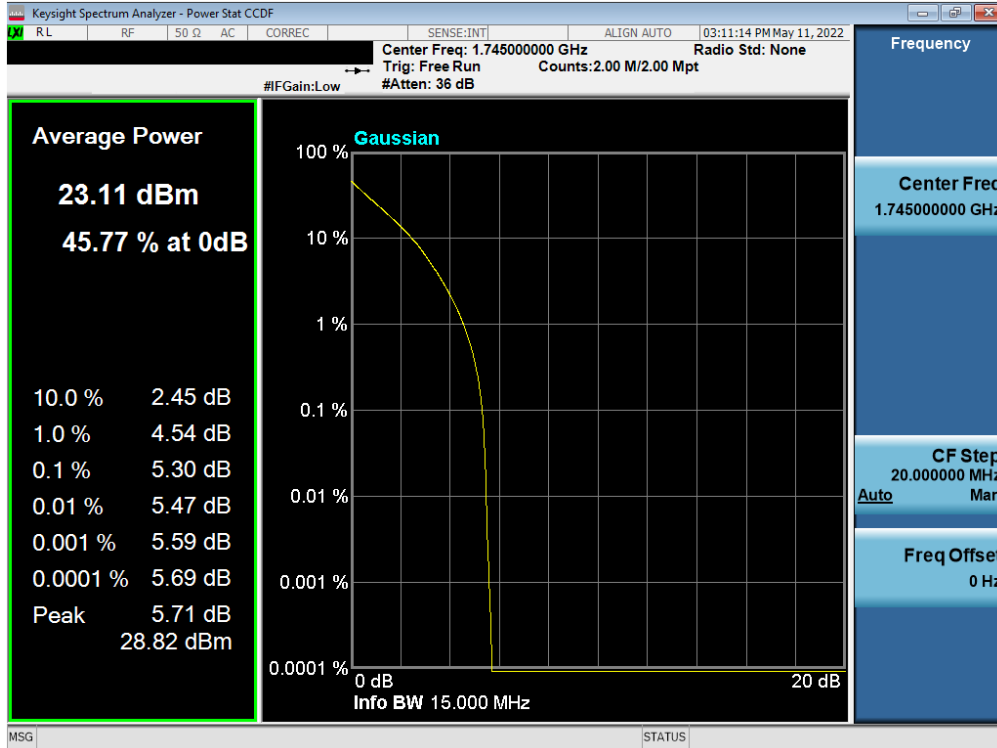


Plot 7-294. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - Ant F)

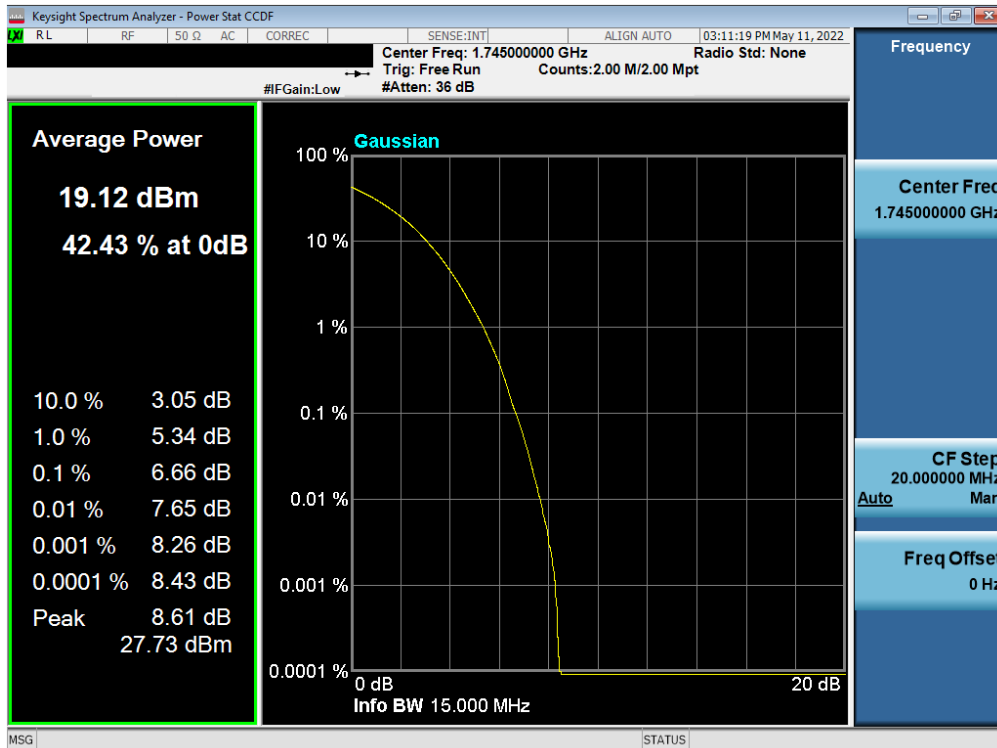


Plot 7-295. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 173 of 238

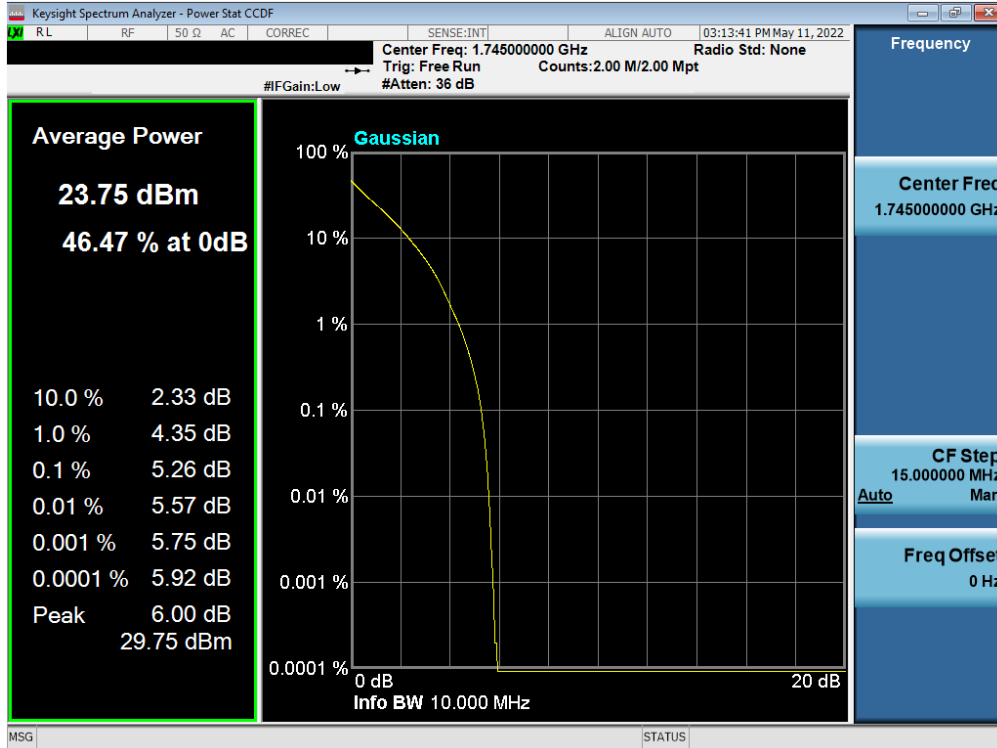


Plot 7-296. PAR Plot (LTE Band 66/4 - 15MHz QPSK - Full RB - Ant F)

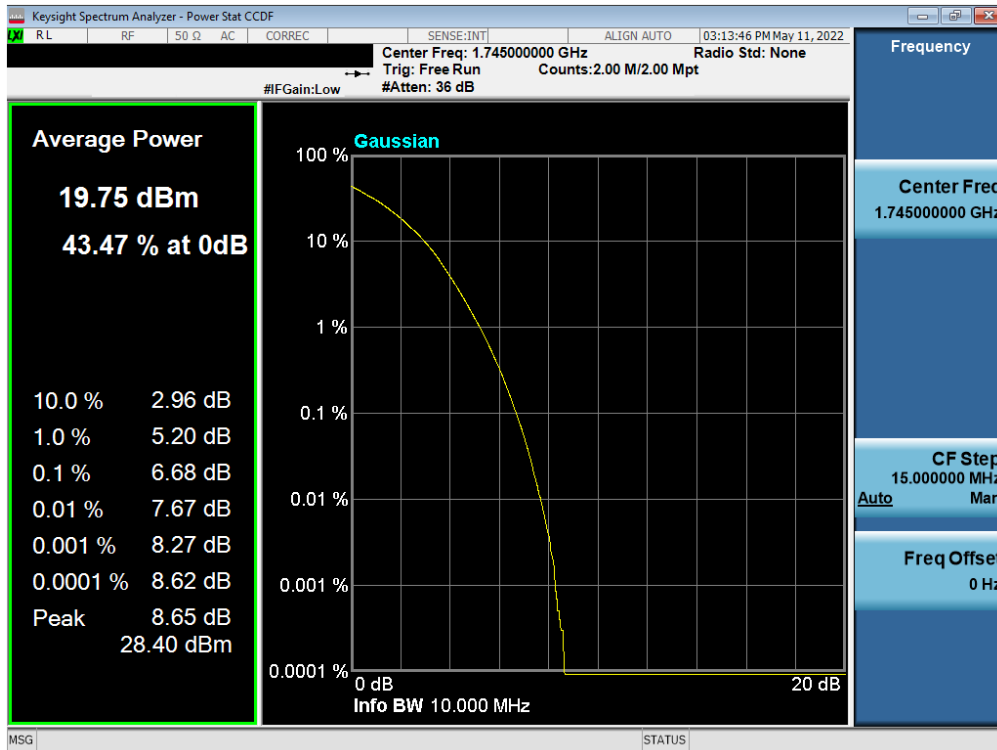


Plot 7-297. PAR Plot (LTE Band 66/4 - 15MHz 256-QAM - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 174 of 238

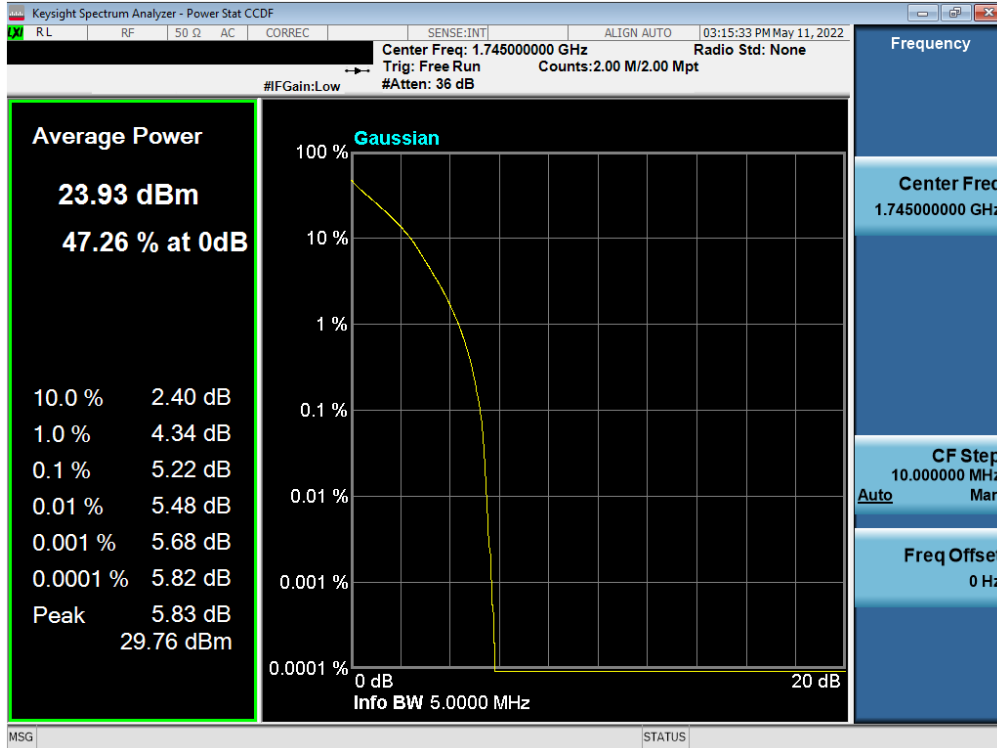


Plot 7-298. PAR Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - Ant F)

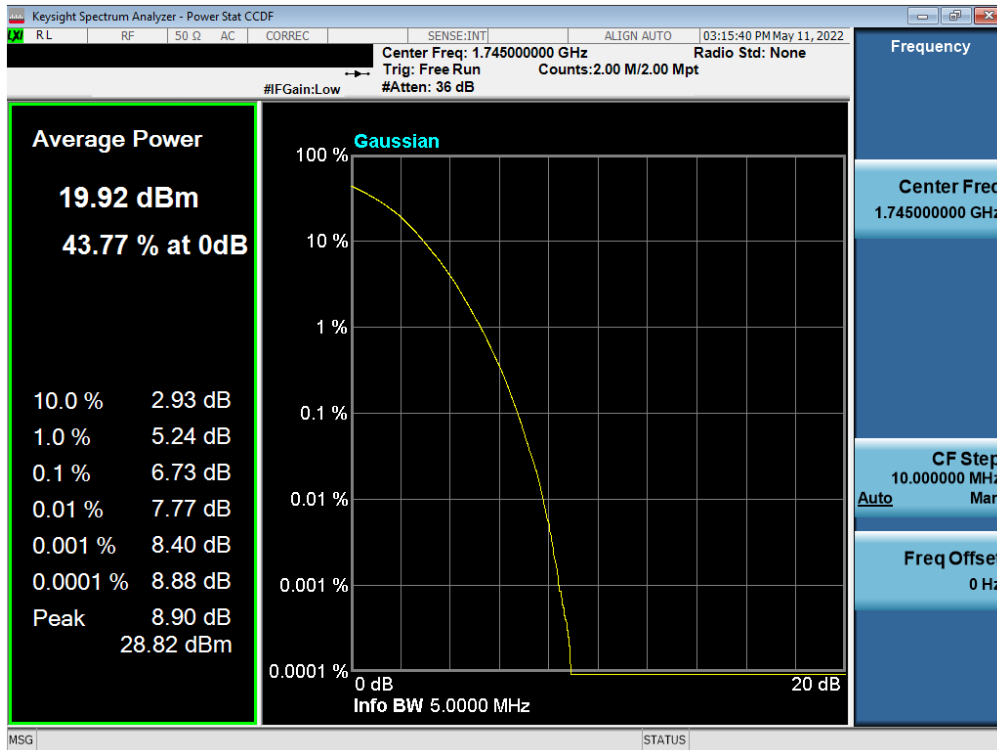


Plot 7-299. PAR Plot (LTE Band 66/4 - 10MHz 256-QAM - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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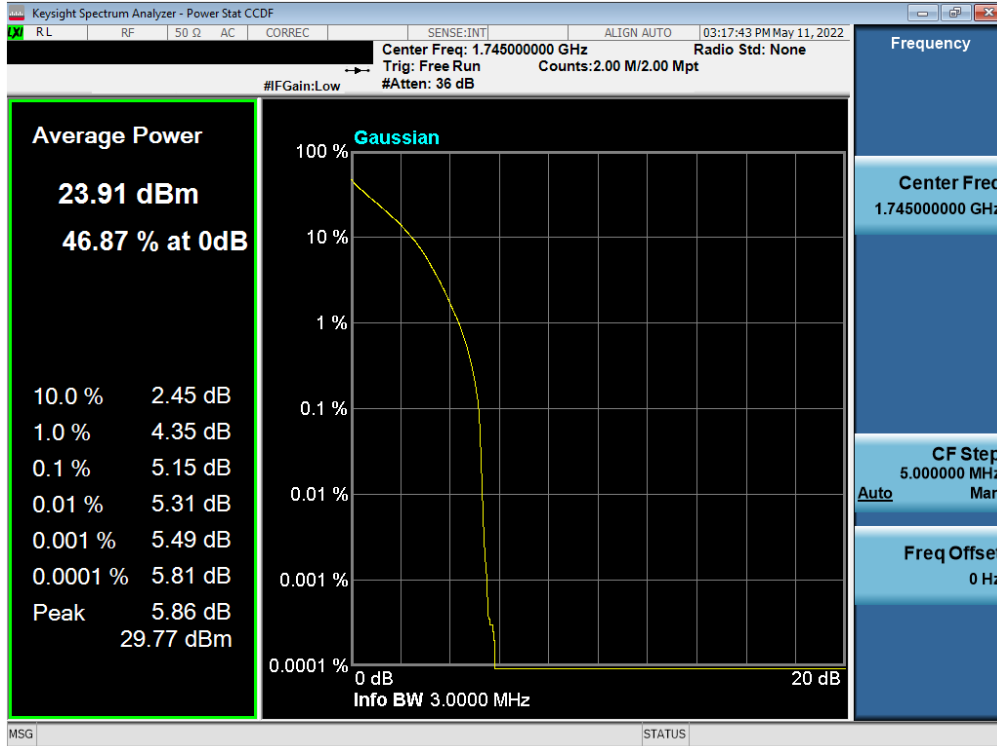


Plot 7-300. PAR Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - Ant F)

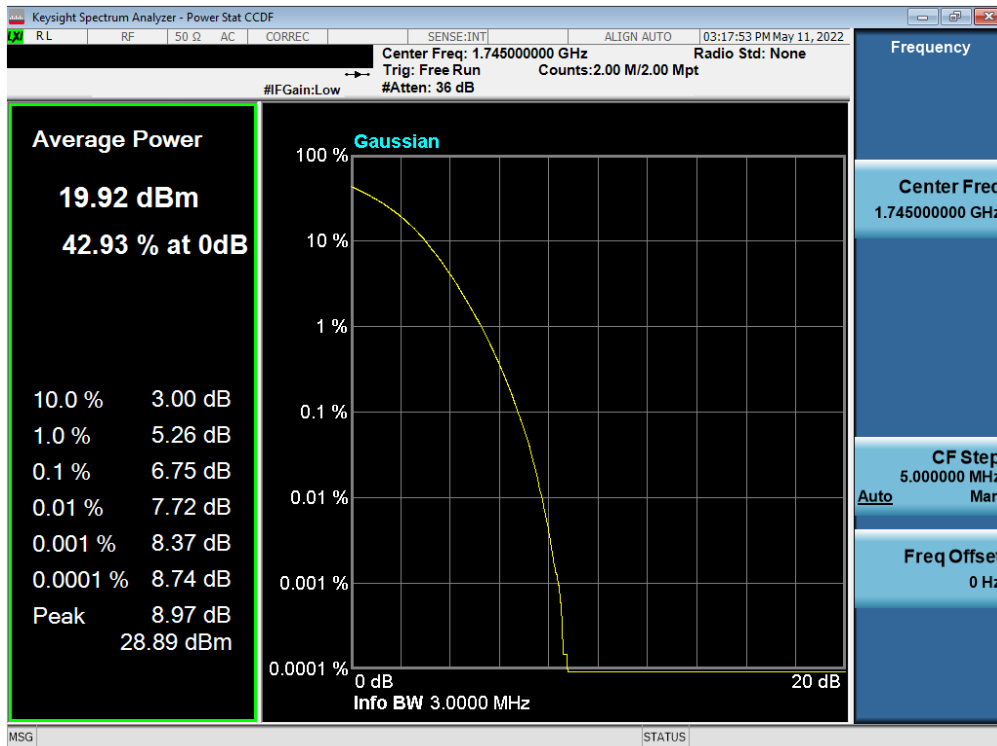


Plot 7-301. PAR Plot (LTE Band 66/4 - 5MHz 256-QAM - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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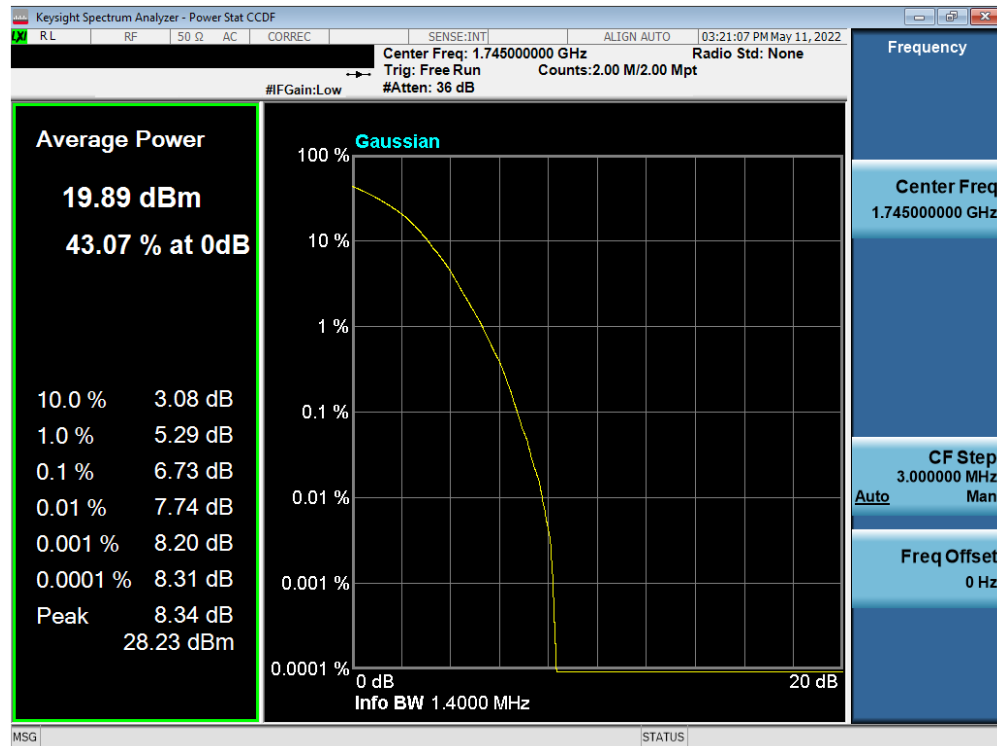
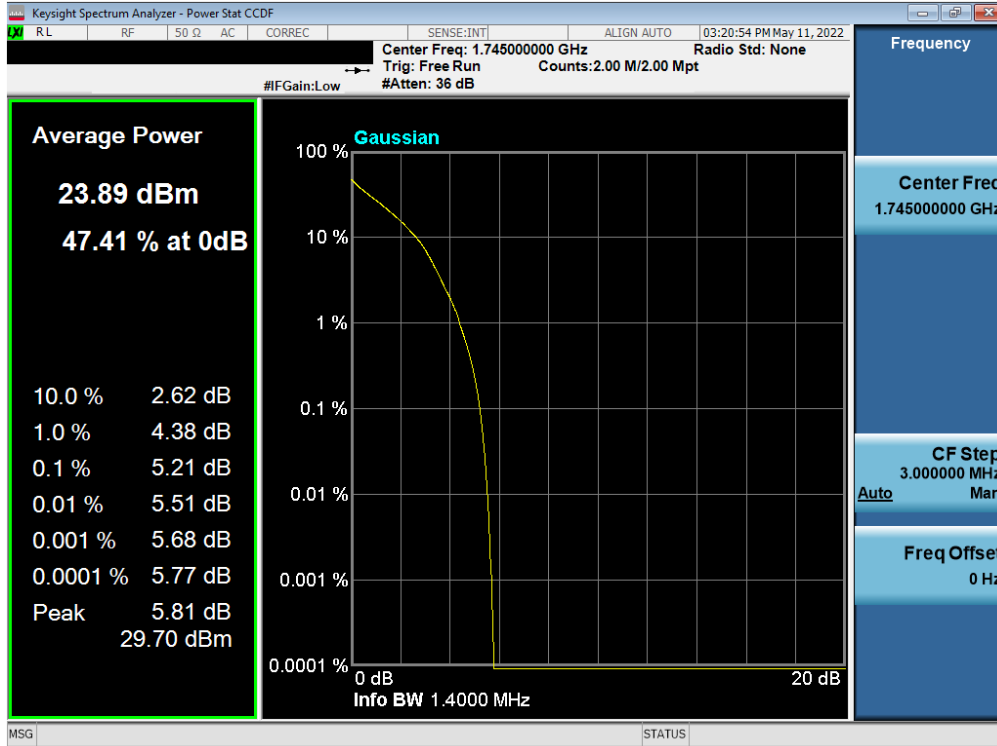


Plot 7-302. PAR Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - Ant F)



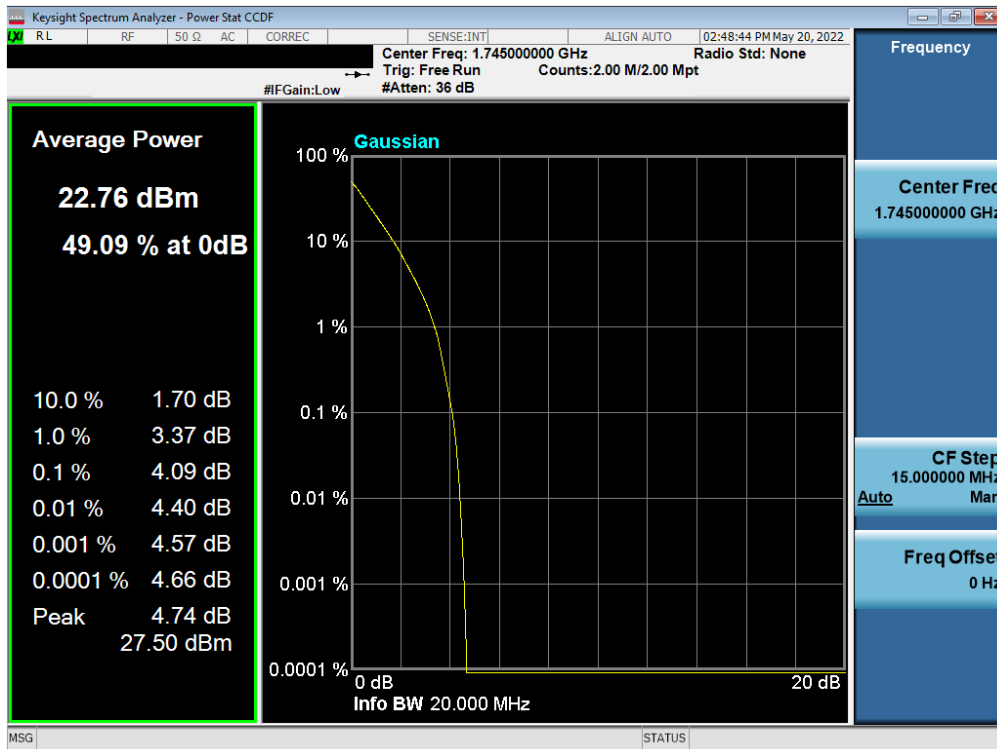
Plot 7-303. PAR Plot (LTE Band 66/4 - 3MHz 256-QAM - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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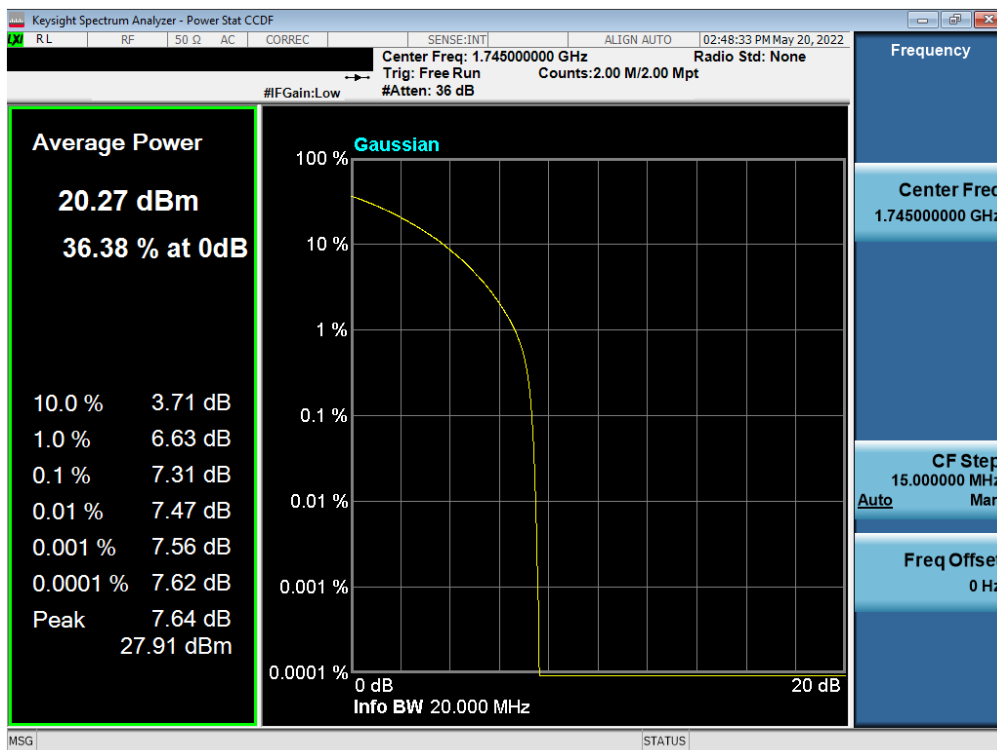


FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – Ant F

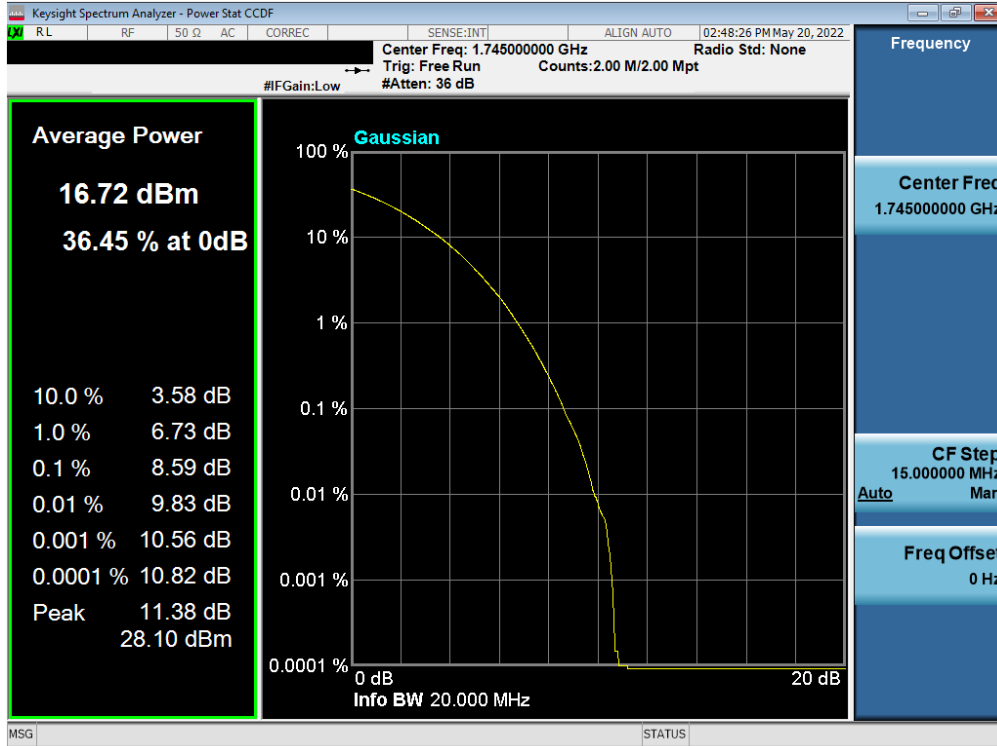


Plot 7-306. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

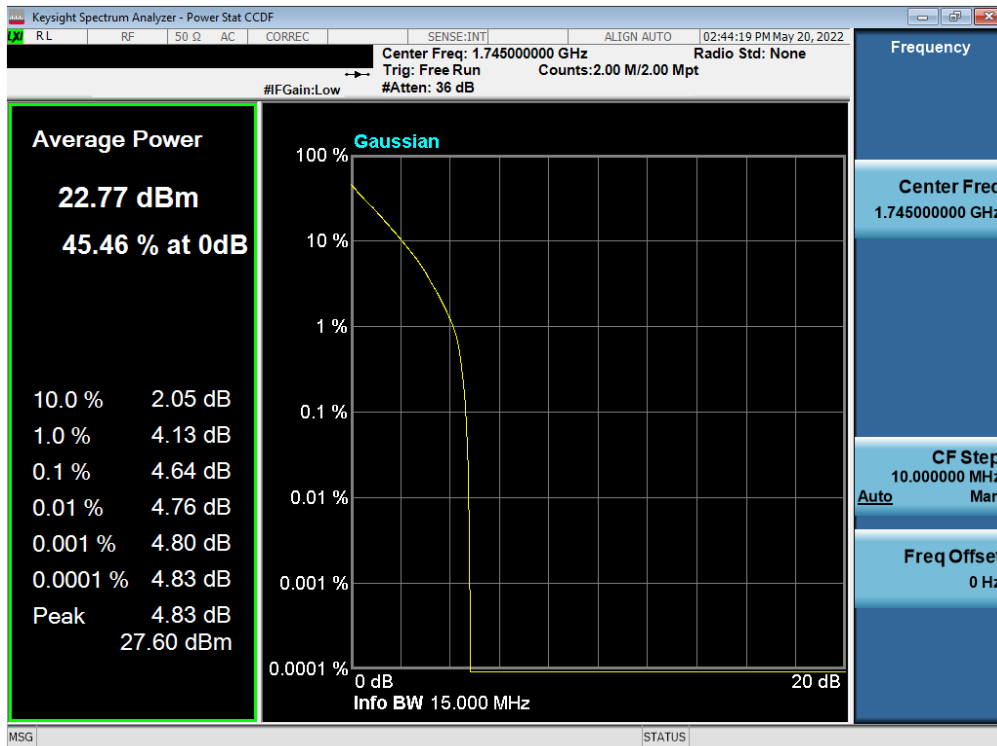


Plot 7-307. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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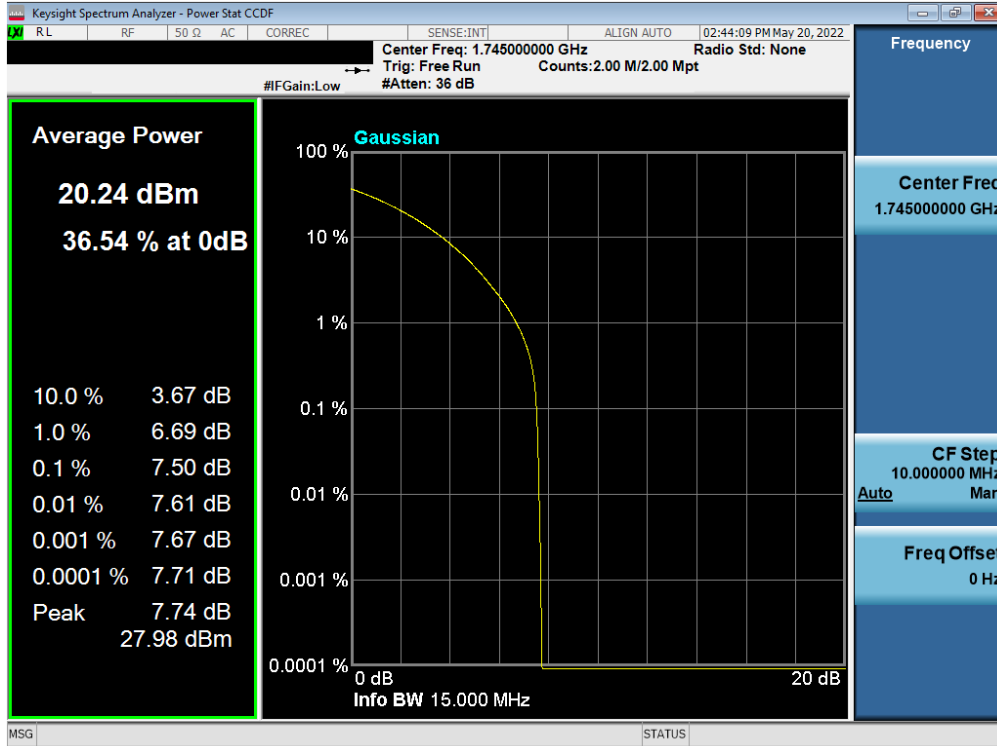


Plot 7-308. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB - Ant F)

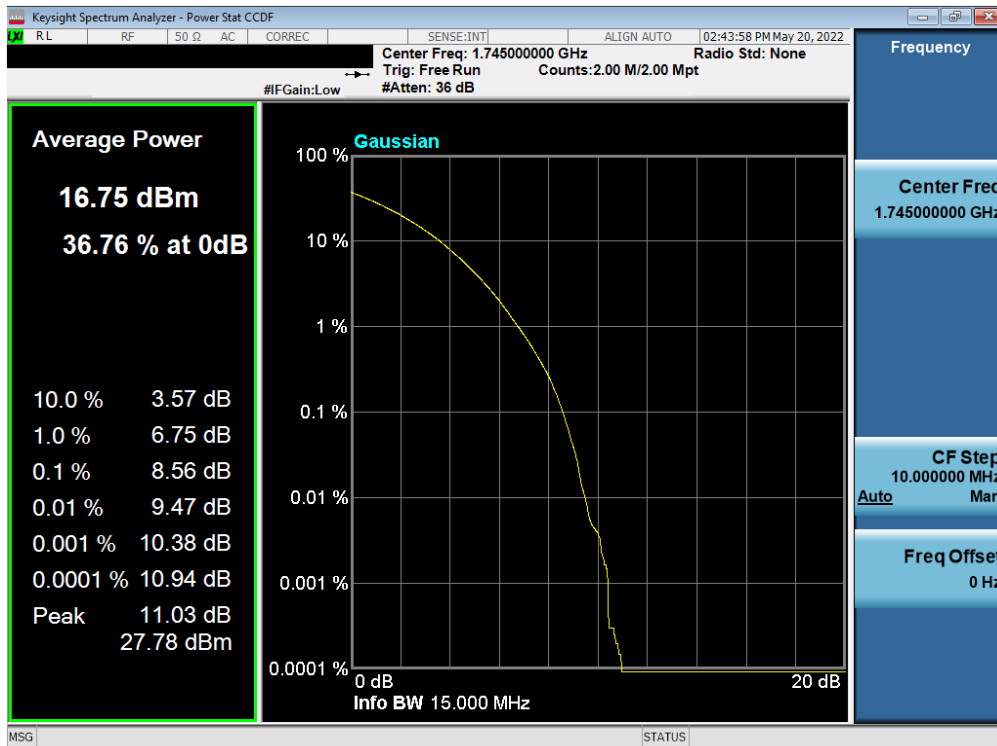


Plot 7-309. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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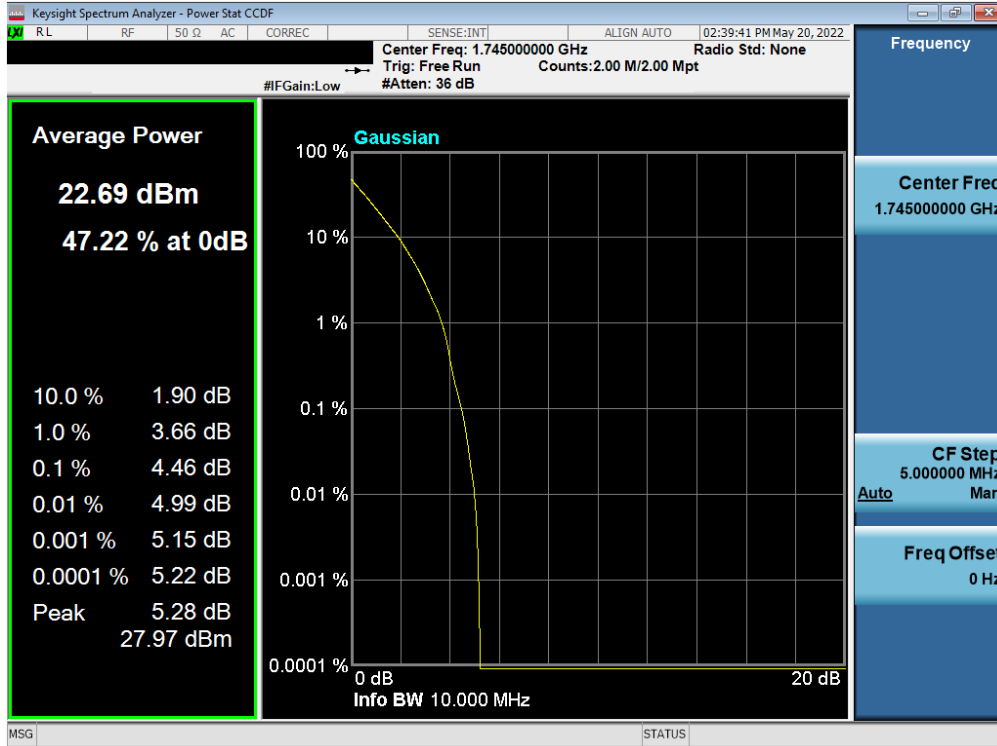


Plot 7-310. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB - Ant F)

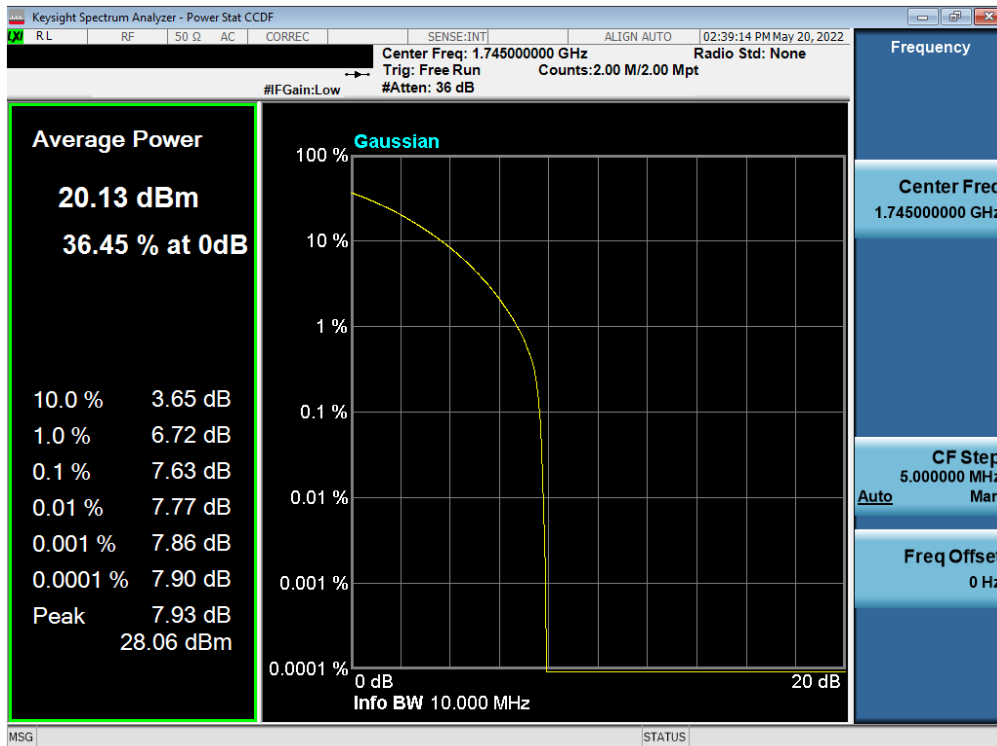


Plot 7-311. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM 256-QAM - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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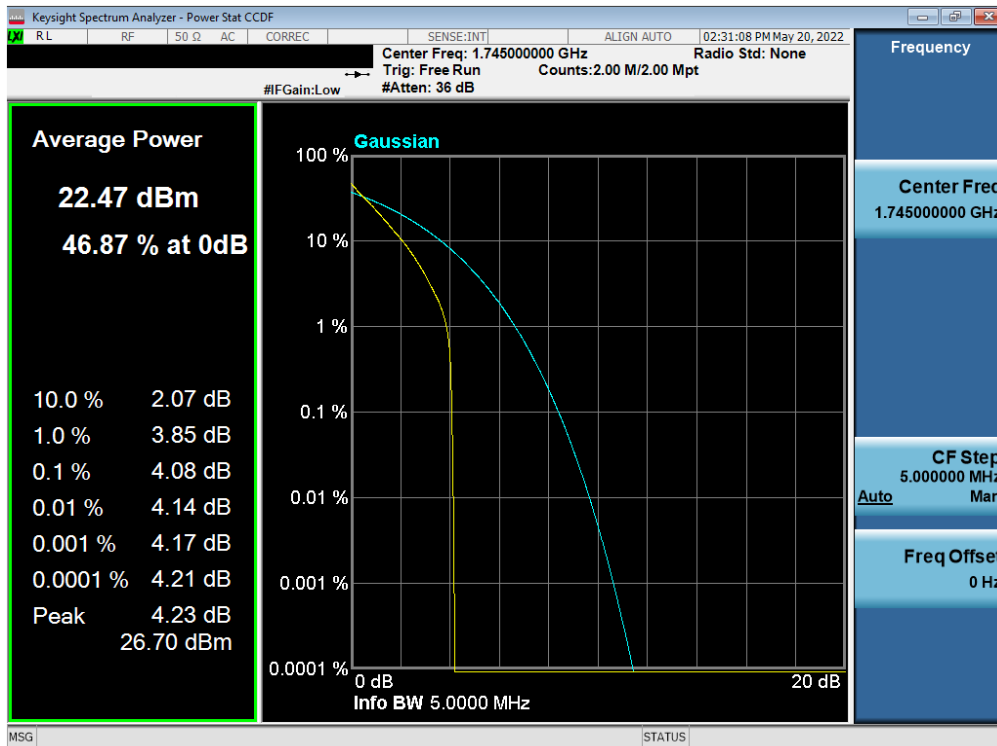
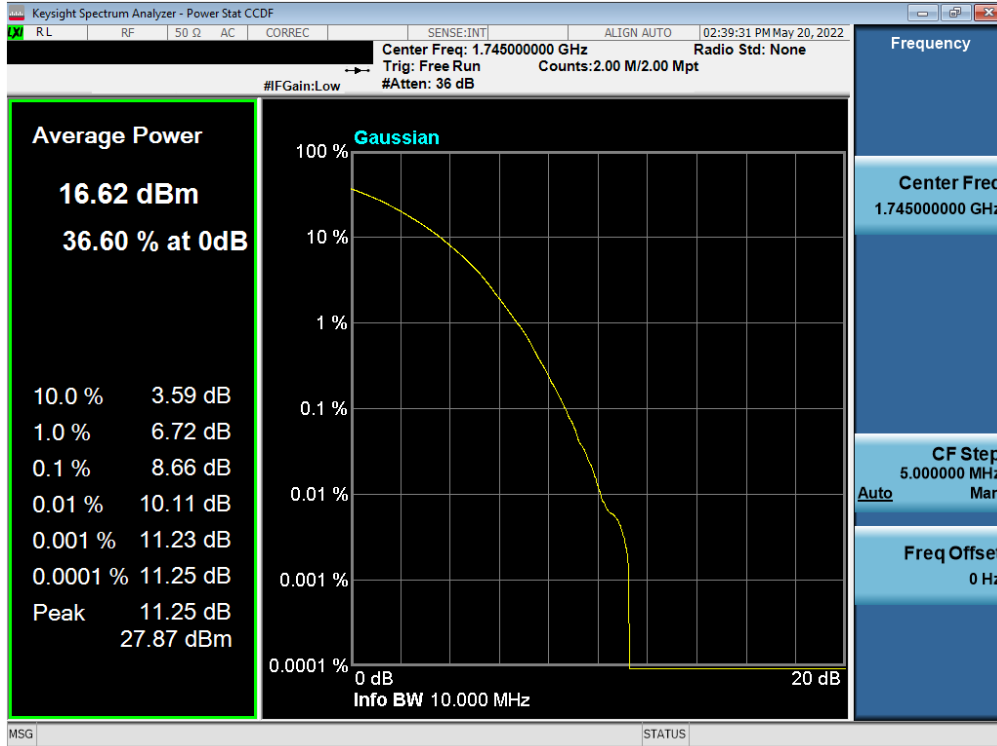


Plot 7-312. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

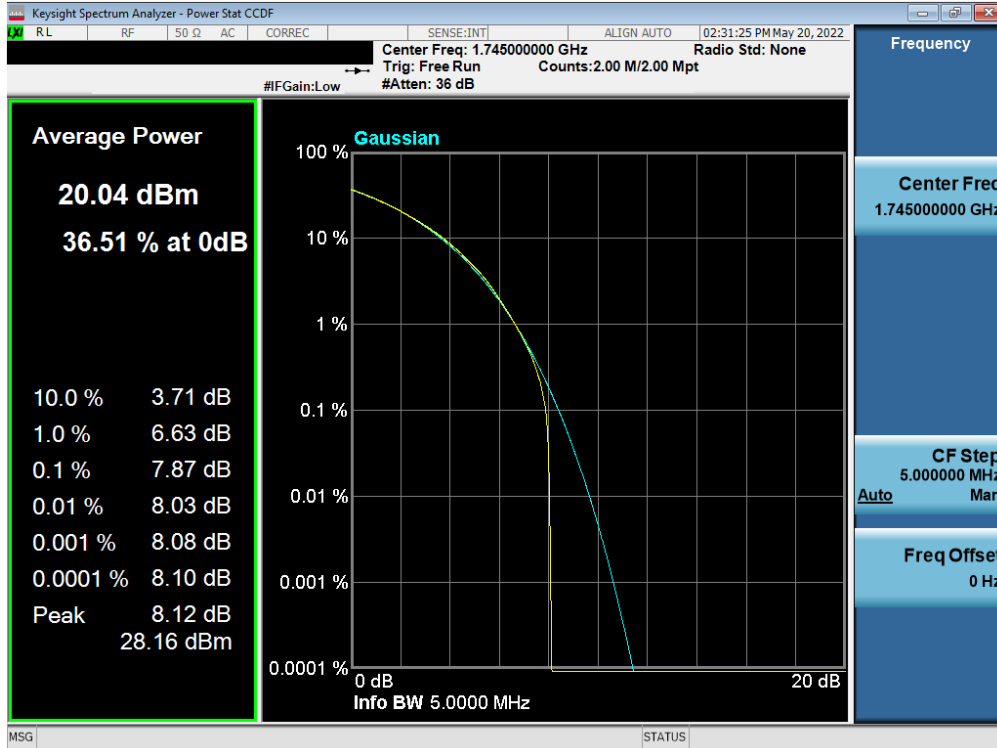


Plot 7-313. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB - Ant F)

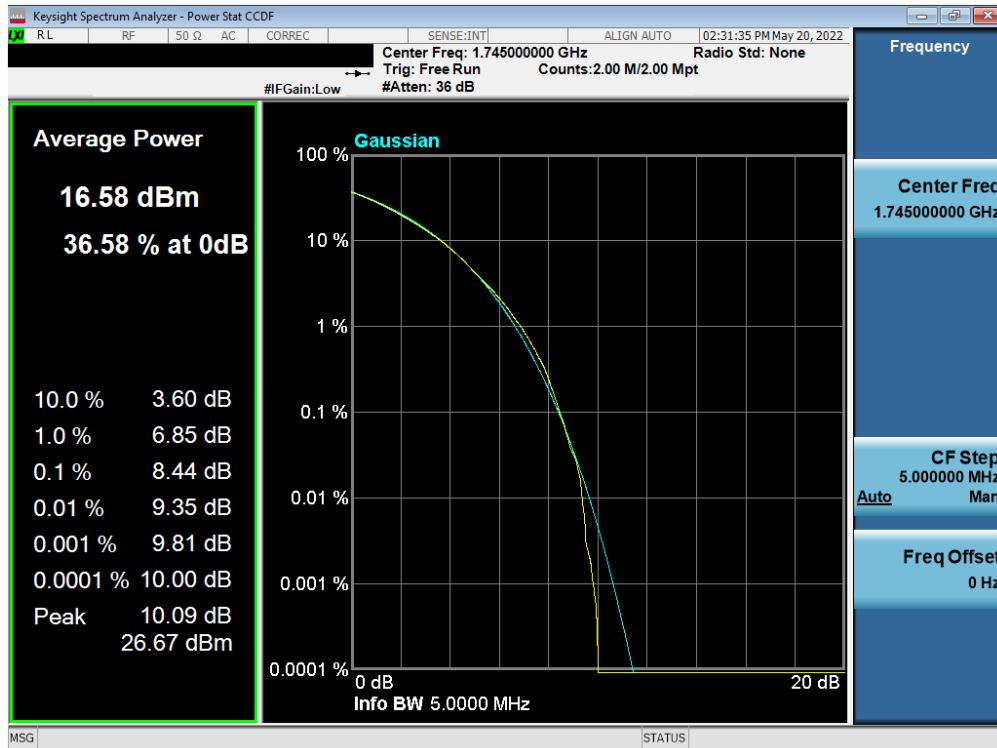
FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-316. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB - Ant F)



Plot 7-317. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM 256-QAM - Full RB - Ant F)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer’s “channel power” measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger is set to “free run” for signals with continuous operation with the sweep times set to “auto”.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. 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.

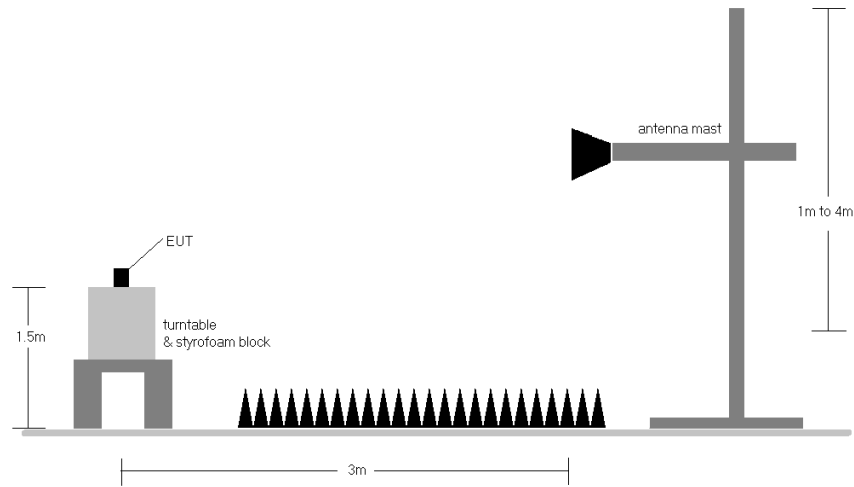


Figure 7-6. Radiated Test Setup <1GHz

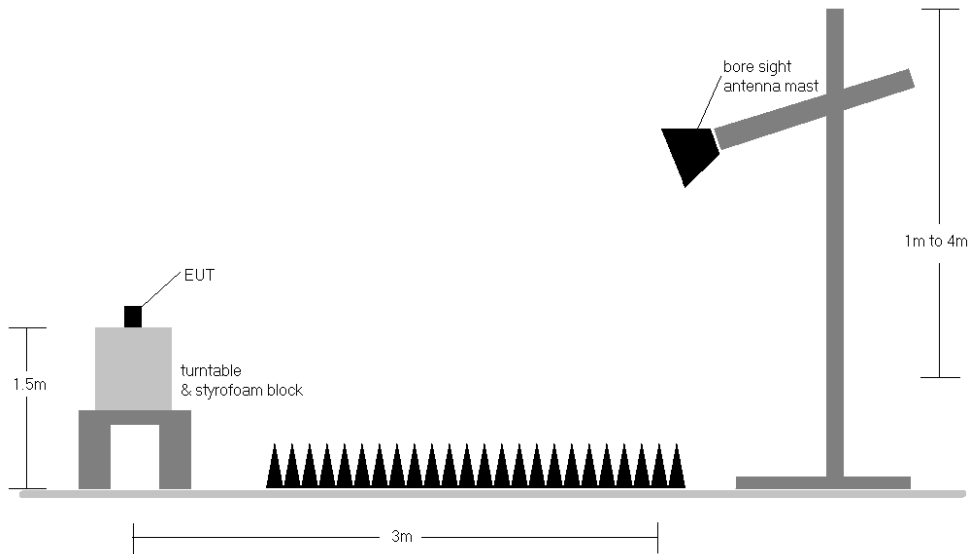


Figure 7-7. Radiated Test Setup >1GHz

Test Notes

- 1) 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.
- 2) This unit was tested with its standard battery.
- 3) 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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Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	H	189	149	13.45	9.54	22.99	0.199	30.00	-7.01
1732.60	WCDMA1700	H	183	155	14.64	9.49	24.13	0.259	30.00	-5.87
1752.60	WCDMA1700	H	181	140	13.76	9.46	23.22	0.210	30.00	-6.78
1732.60	WCDMA1700	V	105	353	11.81	9.15	20.96	0.125	30.00	-9.04
1732.60	WCDMA1700 (Closed)	V	183	330	13.68	9.15	22.83	0.192	30.00	-7.17
1732.60	WCDMA1700 (WCP)	H	120	144	14.44	9.49	23.93	0.247	30.00	-6.07

Table 7-7. EIRP Data (WCDMA AWS – Ant B)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	H	189	147	9.47	1 / 50	13.84	23.31	0.214	30.00	-6.69
	QPSK	1745.0	H	180	143	9.48	1 / 50	13.04	22.52	0.179	30.00	-7.48
	QPSK	1770.0	H	182	140	9.39	1 / 50	12.19	21.58	0.144	30.00	-8.42
	16-QAM	1720.0	H	189	147	9.47	1 / 50	12.97	22.44	0.175	30.00	-7.56
15 MHz	QPSK	1717.5	H	189	147	9.49	1 / 37	13.62	23.11	0.205	30.00	-6.89
	QPSK	1745.0	H	180	143	9.48	1 / 37	13.13	22.61	0.183	30.00	-7.39
	QPSK	1772.5	H	182	140	9.36	1 / 37	12.11	21.47	0.140	30.00	-8.53
	16-QAM	1717.5	H	189	147	9.49	1 / 37	13.35	22.84	0.192	30.00	-7.16
10 MHz	QPSK	1715.0	H	189	147	9.52	1 / 25	13.84	23.36	0.217	30.00	-6.64
	QPSK	1745.0	H	180	143	9.48	1 / 25	13.28	22.76	0.189	30.00	-7.24
	QPSK	1775.0	H	182	140	9.34	1 / 25	12.18	21.52	0.142	30.00	-8.48
	16-QAM	1715.0	H	189	147	9.52	1 / 25	13.08	22.60	0.182	30.00	-7.40
5 MHz	QPSK	1712.5	H	189	147	9.54	1 / 12	13.98	23.52	0.225	30.00	-6.48
	QPSK	1745.0	H	180	143	9.48	1 / 12	13.46	22.94	0.197	30.00	-7.06
	QPSK	1777.5	H	182	140	9.31	1 / 12	12.09	21.40	0.138	30.00	-8.60
	16-QAM	1712.5	H	189	147	9.54	1 / 12	13.14	22.68	0.185	30.00	-7.32
3 MHz	QPSK	1711.5	H	189	147	9.55	1 / 7	13.85	23.40	0.219	30.00	-6.60
	QPSK	1745.0	H	180	143	9.48	1 / 7	13.31	22.79	0.190	30.00	-7.21
	QPSK	1778.5	H	182	140	9.30	1 / 7	12.28	21.58	0.144	30.00	-8.42
	16-QAM	1711.5	H	189	147	9.55	1 / 7	12.89	22.44	0.176	30.00	-7.56
1.4 MHz	QPSK	1710.7	H	189	147	9.56	1 / 3	13.76	23.32	0.215	30.00	-6.68
	QPSK	1745.0	H	180	143	9.48	1 / 5	13.27	22.75	0.189	30.00	-7.25
	QPSK	1779.3	H	182	140	9.29	1 / 3	12.27	21.56	0.143	30.00	-8.44
	16-QAM	1710.7	H	189	147	9.56	1 / 3	13.15	22.71	0.187	30.00	-7.29
20 MHz	Opposite Pol.	1720.0	V	140	347	9.33	1 / 50	11.44	20.77	0.119	30.00	-9.23
	Closed	1720.0	V	146	327	9.33	1 / 50	12.47	21.80	0.151	30.00	-8.20
	WCP	1720.0	H	310	311	9.47	1 / 50	10.68	20.15	0.103	30.00	-9.85

Table 7-8. EIRP Data (LTE Band 66/4 – Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 187 of 238

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.0	H	284	318	3.48	1 / 25	16.74	18.07	0.064	34.77	-16.70
	QPSK	707.5	H	284	320	3.52	1 / 49	16.95	18.32	0.068	34.77	-16.45
	QPSK	711.0	H	285	320	3.57	1 / 0	15.70	17.12	0.051	34.77	-17.65
	16-QAM	707.5	H	284	320	3.52	1 / 49	16.10	17.47	0.056	34.77	-17.30
5 MHz	QPSK	701.5	H	284	318	3.45	1 / 12	16.79	18.09	0.064	34.77	-16.68
	QPSK	707.5	H	284	320	3.52	1 / 12	16.89	18.26	0.067	34.77	-16.51
	QPSK	713.5	H	285	320	3.70	1 / 12	15.68	17.22	0.053	34.77	-17.55
	16-QAM	707.5	H	284	320	3.52	1 / 12	16.12	17.49	0.056	34.77	-17.28
3 MHz	QPSK	700.5	H	284	318	3.39	1 / 7	16.89	18.12	0.065	34.77	-16.65
	QPSK	707.5	H	284	320	3.52	1 / 7	17.13	18.51	0.071	34.77	-16.27
	QPSK	714.5	H	285	320	3.71	1 / 7	15.56	17.12	0.052	34.77	-17.65
	16-QAM	707.5	H	284	320	3.52	1 / 7	16.26	17.64	0.058	34.77	-17.14
1.4 MHz	QPSK	699.7	H	284	318	3.33	1 / 3	16.99	18.16	0.066	34.77	-16.61
	QPSK	707.5	H	284	320	3.52	1 / 3	17.08	18.45	0.070	34.77	-16.32
	QPSK	715.3	H	285	320	3.72	1 / 3	15.51	17.08	0.051	34.77	-17.69
	16-QAM	707.5	H	284	320	3.52	1 / 3	16.18	17.56	0.057	34.77	-17.21
10 MHz	Opposite Pol.	707.5	V	150	3	3.62	1 / 49	14.94	16.41	0.044	34.77	-18.36
	Half	707.5	H	281	306	3.52	1 / 0	16.06	17.43	0.055	34.77	-17.34
	WCP	707.5	H	199	357	3.52	1 / 25	14.68	16.05	0.040	34.77	-18.72

Table 7-9. ERP Data (LTE Band 12/17 – Ant A + Ant B)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.0	H	236	312	6.09	1 / 25	12.96	16.90	0.049	34.77	-17.87
	16-QAM	782.0	H	236	312	6.09	1 / 25	12.02	15.96	0.039	34.77	-18.81
5 MHz	QPSK	779.5	H	236	312	5.97	1 / 12	13.11	16.92	0.049	34.77	-17.85
	QPSK	782.0	H	236	312	6.09	1 / 12	12.78	16.73	0.047	34.77	-18.04
	QPSK	784.5	H	236	312	6.17	1 / 12	12.98	17.00	0.050	34.77	-17.77
	16-QAM	784.5	H	236	312	6.17	1 / 12	12.17	16.19	0.042	34.77	-18.58
10 MHz	Opposite Pol.	782.0	V	152	201	5.99	1 / 25	12.41	16.25	0.042	34.77	-18.52
	Open	782.0	H	112	360	6.09	1 / 25	12.51	16.45	0.044	34.77	-18.32
	WCP	782.0	H	131	227	6.09	1 / 25	9.90	13.84	0.024	34.77	-20.93

Table 7-10. ERP Data (LTE Band 13 – Ant A + Ant B)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
15 MHz	$\pi/2$ BPSK	706.5	H	279	273	3.51	1 / 38	13.91	15.27	0.034	34.77	-19.50
	$\pi/2$ BPSK	707.5	H	280	279	3.52	1 / 38	14.05	15.42	0.035	34.77	-19.35
	$\pi/2$ BPSK	708.5	H	249	146	3.54	1 / 38	14.08	15.47	0.035	34.77	-19.31
	QPSK	706.5	H	279	273	3.51	1 / 38	13.86	15.22	0.033	34.77	-19.55
	QPSK	707.5	H	280	279	3.52	1 / 38	14.13	15.50	0.036	34.77	-19.27
	QPSK	708.5	H	249	146	3.54	1 / 38	14.03	15.42	0.035	34.77	-19.36
	16-QAM	707.5	H	280	279	3.52	1 / 38	12.89	14.26	0.027	34.77	-20.51
10 MHz	$\pi/2$ BPSK	704.0	H	279	273	3.48	1 / 38	13.76	15.09	0.032	34.77	-19.68
	$\pi/2$ BPSK	707.5	H	280	279	3.52	1 / 13	13.99	15.36	0.034	34.77	-19.41
	$\pi/2$ BPSK	711.0	H	249	146	3.57	1 / 26	14.00	15.42	0.035	34.77	-19.36
	QPSK	704.0	H	279	273	3.48	1 / 13	13.89	15.22	0.033	34.77	-19.55
	QPSK	707.5	H	280	279	3.52	1 / 26	14.19	15.56	0.036	34.77	-19.21
	QPSK	711.0	H	249	146	3.57	1 / 26	13.89	15.30	0.034	34.77	-19.47
5 MHz	16-QAM	707.5	H	280	279	3.52	1 / 26	12.99	14.36	0.027	34.77	-20.41
	$\pi/2$ BPSK	701.5	H	279	273	3.45	1 / 6	14.04	15.34	0.034	34.77	-19.43
	$\pi/2$ BPSK	707.5	H	280	279	3.52	1 / 12	14.22	15.60	0.036	34.77	-19.17
	$\pi/2$ BPSK	713.5	H	249	146	3.70	1 / 6	13.87	15.42	0.035	34.77	-19.35
	QPSK	701.5	H	279	273	3.45	1 / 12	14.11	15.41	0.035	34.77	-19.36
	QPSK	707.5	H	280	279	3.52	1 / 12	14.44	15.82	0.038	34.77	-18.96
15 MHz	QPSK	713.5	H	249	146	3.70	1 / 6	13.99	15.53	0.036	34.77	-19.24
	16-QAM	707.5	H	280	279	3.52	1 / 6	13.27	14.64	0.029	34.77	-20.13
	QPSK (CP-OFDM)	707.5	H	280	279	3.52	1 / 58	13.28	14.65	0.029	34.77	-20.12
	QPSK (Opposite Pol.)	707.5	V	274	266	3.52	1 / 58	13.99	15.36	0.034	34.77	-19.41
15 MHz	Half	707.5	H	246	277	3.52	1 / 58	14.01	15.38	0.035	34.77	-19.39
	QPSK (WCP)	707.5	H	276	146	3.52	1 / 58	12.96	14.33	0.027	34.77	-20.44

Table 7-11. EIRP Data (NR Band n12 – Ant A + Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 188 of 238

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.0	H	150	328	3.48	1 / 0	13.53	14.86	0.031	34.77	-19.91
	QPSK	707.5	H	133	343	3.52	1 / 49	13.51	14.88	0.031	34.77	-19.89
	QPSK	711.0	H	128	344	3.57	1 / 49	13.92	15.34	0.034	34.77	-19.43
	16-QAM	711.0	H	128	344	3.57	1 / 49	13.16	14.58	0.029	34.77	-20.19
5 MHz	QPSK	701.5	H	150	328	3.45	1 / 24	13.59	14.89	0.031	34.77	-19.88
	QPSK	707.5	H	133	343	3.52	1 / 0	13.39	14.76	0.030	34.77	-20.01
	QPSK	713.5	H	128	344	3.70	1 / 0	13.88	15.43	0.035	34.77	-19.34
3 MHz	16-QAM	713.5	H	128	344	3.70	1 / 12	13.04	14.58	0.029	34.77	-20.19
	QPSK	700.5	H	150	328	3.39	1 / 7	13.72	14.96	0.031	34.77	-19.81
	QPSK	707.5	H	133	343	3.52	1 / 7	13.50	14.87	0.031	34.77	-19.90
1.4 MHz	QPSK	714.5	H	128	344	3.71	1 / 7	13.91	15.47	0.035	34.77	-19.30
	16-QAM	714.5	H	128	344	3.71	1 / 0	12.89	14.44	0.028	34.77	-20.33
	QPSK	699.7	H	150	328	3.33	1 / 0	13.87	15.04	0.032	34.77	-19.73
10 MHz	QPSK	707.5	H	133	343	3.52	1 / 3	13.54	14.92	0.031	34.77	-19.86
	QPSK	715.3	H	128	344	3.72	1 / 0	13.57	15.14	0.033	34.77	-19.63
	16-QAM	715.3	H	128	344	3.72	1 / 3	12.80	14.37	0.027	34.77	-20.40
	Opposite Pol.	711.0	V	147	170	3.67	1 / 49	11.57	13.09	0.020	34.77	-21.68
10 MHz	Half	711.0	H	286	314	3.57	1 / 49	13.34	14.76	0.030	34.77	-20.01
	WCP	711.0	H	201	299	3.57	1 / 49	10.49	11.91	0.016	34.77	-22.86

Table 7-12. ERP Data (LTE Band 12/17 – Ant A)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.0	H	234	314	6.09	1 / 49	12.68	16.62	0.046	34.77	-18.15
	16-QAM	782.0	H	234	314	6.09	1 / 49	11.84	15.78	0.038	34.77	-18.99
5 MHz	QPSK	779.5	H	234	314	5.97	1 / 12	12.83	16.64	0.046	34.77	-18.13
	QPSK	782.0	H	234	314	6.09	1 / 12	12.50	16.45	0.044	34.77	-18.32
	QPSK	784.5	H	234	314	6.17	1 / 12	12.70	16.72	0.047	34.77	-18.05
10 MHz	16-QAM	784.5	H	234	314	6.17	1 / 12	11.99	16.01	0.040	34.77	-18.76
	Opposite Pol.	782.0	V	145	198	5.99	1 / 49	11.34	15.18	0.033	34.77	-19.59
	Open	782.0	H	107	359	6.09	1 / 49	12.55	16.49	0.045	34.77	-18.28
	WCP	782.0	H	178	163	6.09	1 / 49	9.26	13.20	0.021	34.77	-21.57

Table 7-13. ERP Data (LTE Band 13 – Ant A)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
15 MHz	$\pi/2$ BPSK	706.5	H	124	308	3.51	1 / 12	11.51	12.87	0.019	34.77	-21.90
	$\pi/2$ BPSK	707.5	H	125	301	3.52	1 / 12	11.29	12.66	0.018	34.77	-22.11
	$\pi/2$ BPSK	708.5	H	132	302	3.54	1 / 18	11.43	12.82	0.019	34.77	-21.96
	QPSK	706.5	H	124	308	3.51	1 / 12	11.60	12.96	0.020	34.77	-21.81
	QPSK	707.5	H	125	301	3.52	1 / 18	11.06	12.43	0.018	34.77	-22.34
	QPSK	708.5	H	132	302	3.54	1 / 18	11.34	12.73	0.019	34.77	-22.05
10 MHz	16-QAM	706.5	H	124	308	3.51	1 / 6	10.52	11.88	0.015	34.77	-22.89
	$\pi/2$ BPSK	704.0	H	132	302	3.48	1 / 38	11.36	12.69	0.019	34.77	-22.08
	$\pi/2$ BPSK	707.5	H	124	308	3.52	1 / 13	11.23	12.60	0.018	34.77	-22.17
	$\pi/2$ BPSK	711.0	H	125	301	3.57	1 / 26	11.35	12.77	0.019	34.77	-22.01
	QPSK	704.0	H	132	302	3.48	1 / 13	11.63	12.96	0.020	34.77	-21.81
	QPSK	707.5	H	124	308	3.52	1 / 26	11.12	12.49	0.018	34.77	-22.28
	QPSK	711.0	H	125	301	3.57	1 / 26	11.20	12.61	0.018	34.77	-22.16
5 MHz	16-QAM	704.0	H	132	302	3.48	1 / 38	10.39	11.72	0.015	34.77	-23.05
	$\pi/2$ BPSK	701.5	H	132	302	3.45	1 / 6	11.64	12.94	0.020	34.77	-21.83
	$\pi/2$ BPSK	707.5	H	124	308	3.52	1 / 12	11.46	12.84	0.019	34.77	-21.93
	$\pi/2$ BPSK	713.5	H	125	301	3.70	1 / 6	11.22	12.77	0.019	34.77	-22.00
	QPSK	701.5	H	132	302	3.45	1 / 12	11.85	13.15	0.021	34.77	-21.62
	QPSK	707.5	H	124	308	3.52	1 / 12	11.37	12.75	0.019	34.77	-22.03
15 MHz	QPSK	713.5	H	125	301	3.70	1 / 6	11.30	12.84	0.019	34.77	-21.93
	16-QAM	701.5	H	132	302	3.45	1 / 12	10.80	12.10	0.016	34.77	-22.67
	QPSK (CP-OFDM)	706.5	H	124	308	3.51	1 / 18	9.86	11.22	0.013	34.77	-23.55
15 MHz	QPSK (Opposite Pol.)	706.5	V	158	319	3.61	1 / 6	10.99	12.45	0.018	34.77	-22.32
	QPSK (WCP)	706.5	H	116	303	3.51	1 / 18	9.95	11.31	0.014	34.77	-23.46

Table 7-14. EIRP Data (NR Band n12 – Ant A)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204110052-03.A3L	Test Dates: 4/11/2022 - 6/18/2022	EUT Type: Portable Handset	Page 189 of 238

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1720.0	H	172	164	9.48	1 / 26	13.51	22.99	0.199	30.00	-7.01
	$\pi/2$ BPSK	1745.0	H	162	160	9.48	1 / 26	13.49	22.97	0.198	30.00	-7.03
	$\pi/2$ BPSK	1770.0	H	167	157	9.44	1 / 26	13.41	22.85	0.193	30.00	-7.15
	QPSK	1720.0	H	172	164	9.48	1 / 26	13.44	22.92	0.196	30.00	-7.08
	QPSK	1745.0	H	162	160	9.48	1 / 26	13.32	22.80	0.191	30.00	-7.20
	QPSK	1770.0	H	167	157	9.44	1 / 26	13.33	22.77	0.189	30.00	-7.23
15 MHz	16-QAM	1720.0	H	172	164	9.48	1 / 26	12.75	22.23	0.167	30.00	-7.77
	$\pi/2$ BPSK	1717.5	H	172	164	9.48	1 / 39	13.56	23.04	0.201	30.00	-6.96
	$\pi/2$ BPSK	1745.0	H	162	160	9.48	1 / 39	13.42	22.90	0.195	30.00	-7.10
	$\pi/2$ BPSK	1772.5	H	167	157	9.44	1 / 20	13.37	22.81	0.191	30.00	-7.19
	QPSK	1717.5	H	172	164	9.48	1 / 39	13.40	22.88	0.194	30.00	-7.12
	QPSK	1745.0	H	162	160	9.48	1 / 58	13.28	22.76	0.189	30.00	-7.24
10 MHz	QPSK	1772.5	H	167	157	9.44	1 / 58	13.25	22.69	0.186	30.00	-7.31
	16-QAM	1717.5	H	172	164	0.00	1 / 39	22.21	22.21	0.166	30.00	-7.79
	$\pi/2$ BPSK	1715.0	H	172	164	0.00	1 / 38	23.06	23.06	0.202	30.00	-6.94
	$\pi/2$ BPSK	1745.0	H	162	160	0.00	1 / 38	22.90	22.90	0.195	30.00	-7.10
	$\pi/2$ BPSK	1775.0	H	167	157	0.00	1 / 38	22.90	22.90	0.195	30.00	-7.10
	QPSK	1715.0	H	172	164	0.00	1 / 13	22.80	22.80	0.190	30.00	-7.20
5 MHz	QPSK	1745.0	H	162	160	0.00	1 / 13	22.80	22.80	0.191	30.00	-7.20
	QPSK	1775.0	H	167	157	0.00	1 / 38	22.78	22.78	0.190	30.00	-7.22
	16-QAM	1715.0	H	172	164	0.00	1 / 38	22.19	22.19	0.166	30.00	-7.81
	$\pi/2$ BPSK	1712.5	H	172	164	0.00	1 / 12	23.09	23.09	0.204	30.00	-6.91
	$\pi/2$ BPSK	1745.0	H	162	160	0.00	1 / 18	22.79	22.79	0.190	30.00	-7.21
	$\pi/2$ BPSK	1777.5	H	167	157	0.00	1 / 12	22.81	22.81	0.191	30.00	-7.19
20 MHz	QPSK	1712.5	H	172	164	0.00	1 / 6	22.83	22.83	0.192	30.00	-7.17
	QPSK	1745.0	H	162	160	0.00	1 / 6	22.87	22.87	0.194	30.00	-7.13
	QPSK	1777.5	H	167	157	0.00	1 / 6	22.68	22.68	0.185	30.00	-7.32
	16-QAM	1712.5	H	172	164	0.00	1 / 12	22.37	22.37	0.173	30.00	-7.63
	QPSK (CP-OFDM)	1720.0	H	172	164	9.48	1 / 54	11.25	20.73	0.118	30.00	-9.27
	Closed	1720.0	V	103	240	9.48	1 / 54	12.40	21.88	0.154	30.00	-8.12
20 MHz	QPSK (Opposite Pol.)	1720.0	V	102	233	9.48	1 / 54	12.75	22.23	0.167	30.00	-7.77
	QPSK (WCP)	1720.0	V	102	225	9.48	1 / 54	11.16	20.64	0.116	30.00	-9.36

Table 7-15. EIRP Data (NR Band n66 – Ant B)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	H	166	41	9.47	1 / 50	14.00	23.47	0.222	30.00	-6.53
	QPSK	1745.0	H	215	47	9.48	1 / 50	13.33	22.81	0.191	30.00	-7.19
	QPSK	1770.0	H	215	40	9.39	1 / 99	12.91	22.30	0.170	30.00	-7.70
	16-QAM	1720.0	H	166	41	9.47	1 / 50	13.36	22.83	0.192	30.00	-7.17
15 MHz	QPSK	1717.5	H	166	41	9.49	1 / 37	14.03	23.53	0.225	30.00	-6.47
	QPSK	1745.0	H	215	47	9.48	1 / 37	13.27	22.75	0.188	30.00	-7.25
	QPSK	1772.5	H	215	40	9.36	1 / 37	12.93	22.29	0.169	30.00	-7.71
	16-QAM	1717.5	H	166	41	9.49	1 / 37	13.39	22.89	0.194	30.00	-7.11
10 MHz	QPSK	1715.0	H	166	41	9.52	1 / 25	14.15	23.67	0.233	30.00	-6.33
	QPSK	1745.0	H	215	47	9.48	1 / 25	13.39	22.87	0.194	30.00	-7.13
	QPSK	1775.0	H	215	40	9.34	1 / 25	12.86	22.19	0.166	30.00	-7.81
	16-QAM	1715.0	H	166	41	9.52	1 / 25	13.14	22.65	0.184	30.00	-7.35
5 MHz	QPSK	1712.5	H	166	41	9.54	1 / 12	13.99	23.53	0.225	30.00	-6.47
	QPSK	1745.0	H	215	47	9.48	1 / 0	13.38	22.86	0.193	30.00	-7.14
	QPSK	1777.5	H	215	40	9.31	1 / 12	13.05	22.36	0.172	30.00	-7.64
	16-QAM	1712.5	H	166	41	9.54	1 / 12	13.46	23.00	0.200	30.00	-7.00
3 MHz	QPSK	1711.5	H	166	41	9.55	1 / 7	13.94	23.49	0.224	30.00	-6.51
	QPSK	1745.0	H	215	47	9.48	1 / 7	13.34	22.82	0.191	30.00	-7.18
	QPSK	1778.5	H	215	40	9.30	1 / 0	12.92	22.23	0.167	30.00	-7.77
	16-QAM	1711.5	H	166	41	9.55	1 / 7	13.26	22.81	0.191	30.00	-7.19
1.4 MHz	QPSK	1710.7	H	166	41	9.56	1 / 3	13.94	23.51	0.224	30.00	-6.49
	QPSK	1745.0	H	215	47	9.48	1 / 3	13.39	22.87	0.194	30.00	-7.13
	QPSK	1779.3	H	215	40	9.29	1 / 5	12.89	22.18	0.165	30.00	-7.82
	16-QAM	1710.7	H	166	41	9.56	1 / 3	13.17	22.73	0.187	30.00	-7.27
20 MHz	Opposite Pol.	1720.0	V	109	15	9.33	1 / 50	11.63	20.96	0.125	30.00	-9.04
	Closed	1720.0	H	137	329	9.47	1 / 50	12.50	21.97	0.157	30.00	-8.03
	WCP	1720.0	H	151	217	9.47	1 / 50	11.05	20.52	0.113	30.00	-9.48

Table 7-16. EIRP Data (LTE Band 66/4 – Ant F)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1720.0	H	180	41	9.47	1 / 26	13.51	22.98	0.199	30.00	-7.02
	$\pi/2$ BPSK	1745.0	H	220	44	9.48	1 / 26	12.76	22.24	0.168	30.00	-7.76
	$\pi/2$ BPSK	1770.0	H	129	42	9.39	1 / 79	13.11	22.50	0.178	30.00	-7.50
	QPSK	1720.0	H	180	41	9.47	1 / 26	13.48	22.95	0.197	30.00	-7.05
	QPSK	1745.0	H	220	44	9.48	1 / 53	12.80	22.28	0.169	30.00	-7.72
	QPSK	1770.0	H	129	42	9.39	1 / 79	13.10	22.49	0.177	30.00	-7.51
15 MHz	16-QAM	1720.0	H	180	41	9.47	1 / 26	12.39	21.86	0.153	30.00	-8.14
	$\pi/2$ BPSK	1717.5	H	180	41	9.49	1 / 58	13.40	22.89	0.195	30.00	-7.11
	$\pi/2$ BPSK	1745.0	H	220	44	9.48	1 / 58	12.93	22.41	0.174	30.00	-7.59
	$\pi/2$ BPSK	1772.5	H	129	42	9.36	1 / 58	13.15	22.51	0.178	30.00	-7.49
	QPSK	1717.5	H	180	41	9.49	1 / 20	13.43	22.92	0.196	30.00	-7.08
	QPSK	1745.0	H	220	44	9.48	1 / 58	12.88	22.36	0.172	30.00	-7.64
10 MHz	QPSK	1772.5	H	129	42	9.36	1 / 58	13.13	22.50	0.178	30.00	-7.50
	16-QAM	1717.5	H	180	41	9.49	1 / 58	12.50	21.99	0.158	30.00	-8.01
	$\pi/2$ BPSK	1715.0	H	180	41	9.52	1 / 38	13.44	22.95	0.197	30.00	-7.05
	$\pi/2$ BPSK	1745.0	H	220	44	9.48	1 / 13	12.96	22.44	0.175	30.00	-7.56
	$\pi/2$ BPSK	1775.0	H	129	42	9.34	1 / 26	13.34	22.67	0.185	30.00	-7.33
	QPSK	1715.0	H	180	41	9.52	1 / 38	13.46	22.98	0.198	30.00	-7.02
5 MHz	QPSK	1745.0	H	220	44	9.48	1 / 26	12.93	22.41	0.174	30.00	-7.59
	QPSK	1775.0	H	129	42	9.34	1 / 13	13.20	22.54	0.179	30.00	-7.46
	16-QAM	1715.0	H	180	41	9.52	1 / 38	12.48	22.00	0.158	30.00	-8.00
	$\pi/2$ BPSK	1712.5	H	180	41	9.54	1 / 18	13.52	23.06	0.202	30.00	-6.94
	$\pi/2$ BPSK	1745.0	H	220	44	9.48	1 / 12	12.79	22.27	0.169	30.00	-7.73
	$\pi/2$ BPSK	1777.5	H	129	42	9.31	1 / 18	13.05	22.36	0.172	30.00	-7.64
20 MHz	QPSK	1712.5	H	180	41	9.54	1 / 18	13.30	22.85	0.193	30.00	-7.15
	QPSK	1745.0	H	220	44	9.48	1 / 12	12.70	22.18	0.165	30.00	-7.82
	QPSK	1777.5	H	129	42	9.31	1 / 18	13.02	22.34	0.171	30.00	-7.66
	16-QAM	1712.5	H	180	41	9.54	1 / 18	12.59	22.14	0.163	30.00	-7.86
20 MHz	QPSK (CP-OFDM)	1720.0	H	183	47	9.47	1 / 26	11.66	21.13	0.130	30.00	-8.87
	QPSK (Opposite Pol.)	1720.0	V	138	11	9.33	1 / 26	10.67	20.00	0.100	30.00	-10.00
	Closed	1720.0	H	114	257	9.47	1 / 26	9.64	19.11	0.081	30.00	-10.89
	QPSK (WCP)	1720.0	H	210	288	9.47	1 / 26	10.64	20.11	0.103	30.00	-9.89

Table 7-17. EIRP Data (NR Band n66 – Ant F)

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7.8 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

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

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V3.0 1/5/2022

Test Setup

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

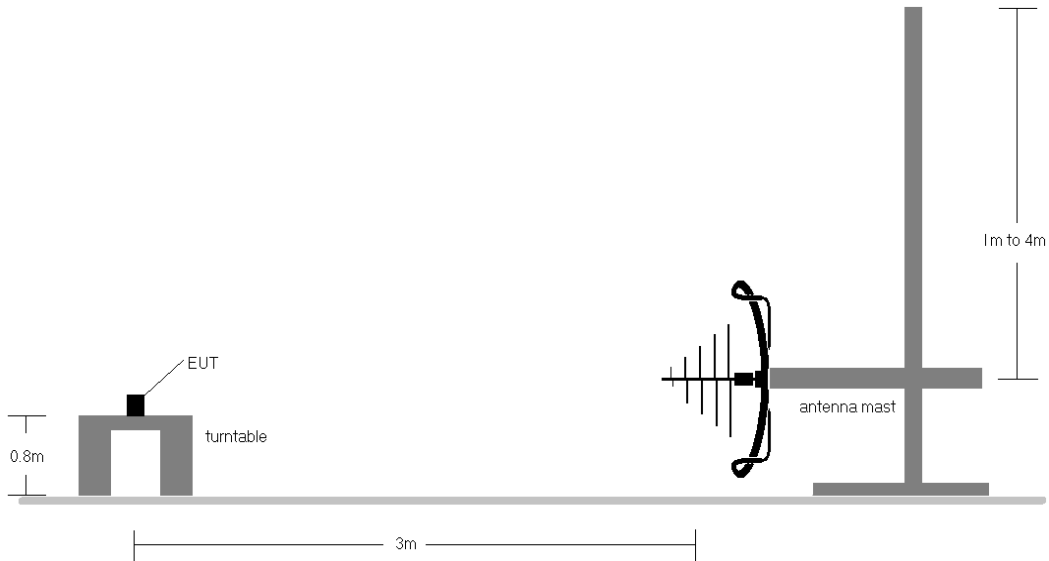


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

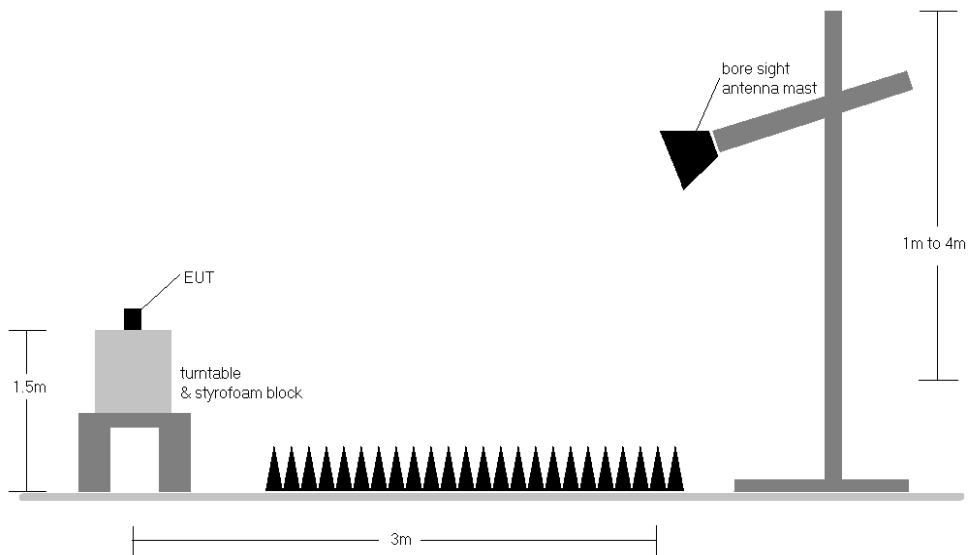


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

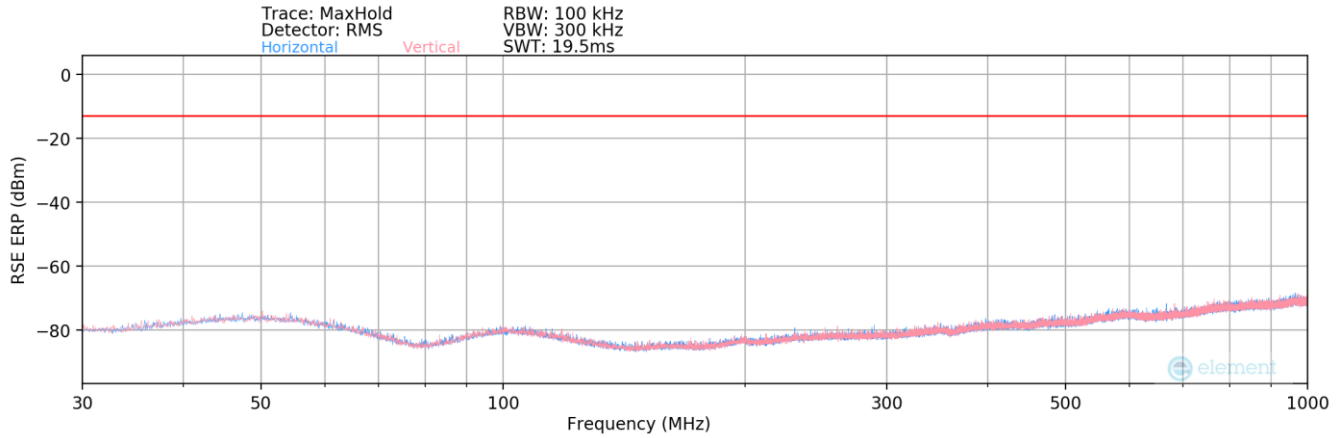
FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

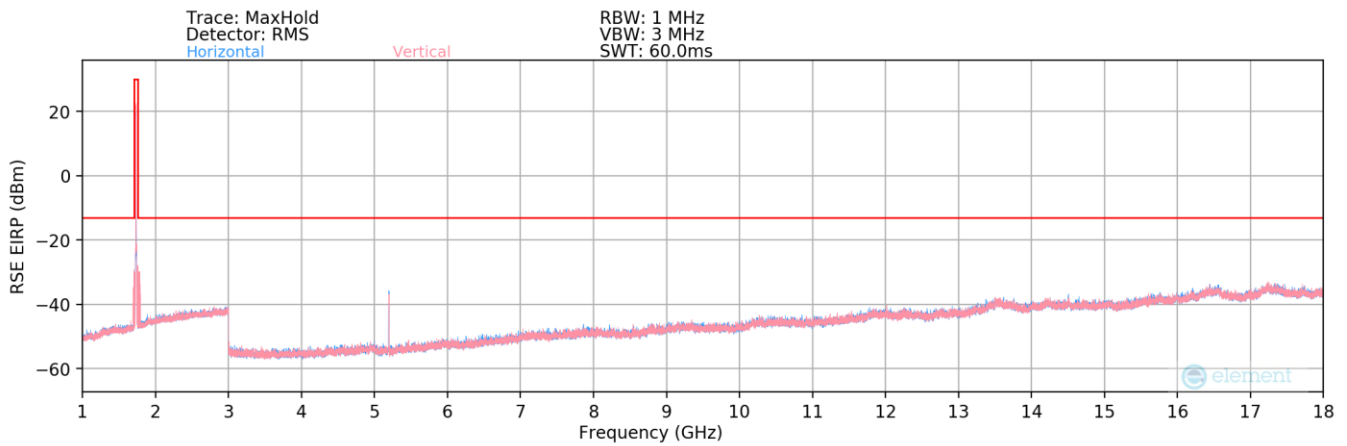
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 8) 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.
- 9) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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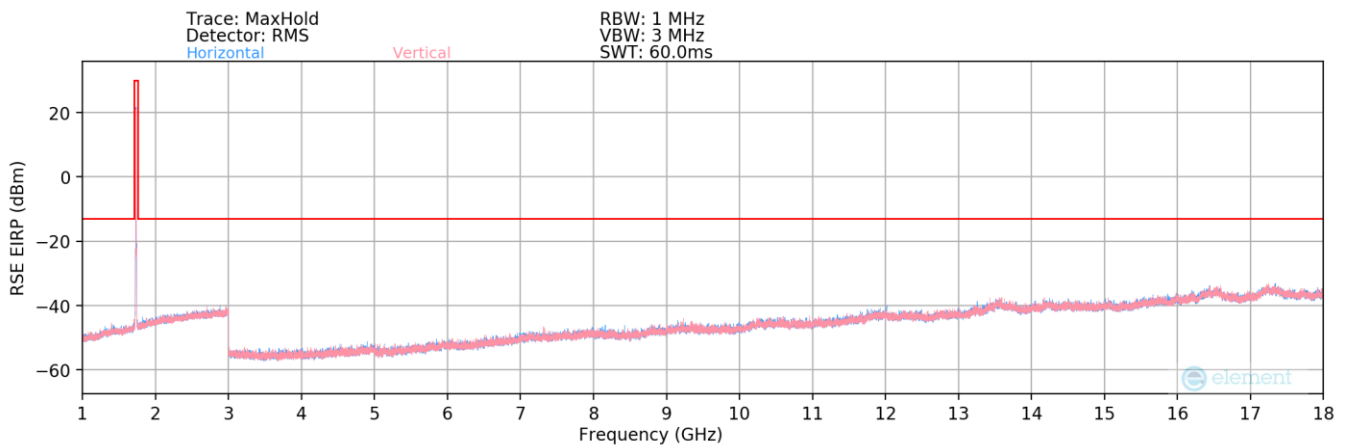
WCDMA AWS – Ant B



Plot 7-318. Radiated Spurious Plot (WCDMA AWS – Ant B) below 1GHz



Plot 7-319. Radiated Spurious Plot (WCDMA AWS – Ant B) above 1GHz – Closed



Plot 7-320. Radiated Spurious Plot (WCDMA AWS – Ant B) above 1GHz – Open

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Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
315.0	H	-	-	-79.21	-13.72	14.07	-83.34	-13.00	-70.34

7-18. Radiated Spurious Data (WCDMA AWS – Ant B) below 1GHz

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

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]
3424.8	H	328	26	-78.59	7.71	36.12	-59.14	-13.00	-46.14
5137.2	H	127	228	-61.35	10.95	56.60	-38.66	-13.00	-25.66
6849.6	H	-	-	-82.06	14.63	39.57	-55.68	-13.00	-42.68
8562.0	H	-	-	-83.65	17.80	41.15	-54.11	-13.00	-41.11
10274.4	H	-	-	-83.53	20.59	44.06	-51.20	-13.00	-38.20

7-19. Radiated Spurious Data (WCDMA AWS – Low Channel – Ant B)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

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]
3465.2	H	329	19	-78.01	7.51	36.50	-58.76	-13.00	-45.76
5197.8	H	112	235	-61.27	10.35	56.08	-39.17	-13.00	-26.17
6930.4	H	-	-	-82.16	14.33	39.17	-56.09	-13.00	-43.09
8663.0	H	-	-	-83.82	18.26	41.44	-53.81	-13.00	-40.81
10395.6	H	-	-	-83.69	20.69	44.00	-51.26	-13.00	-38.26

Table 7-20. Radiated Spurious Data (WCDMA AWS – Mid Channel – Ant B)

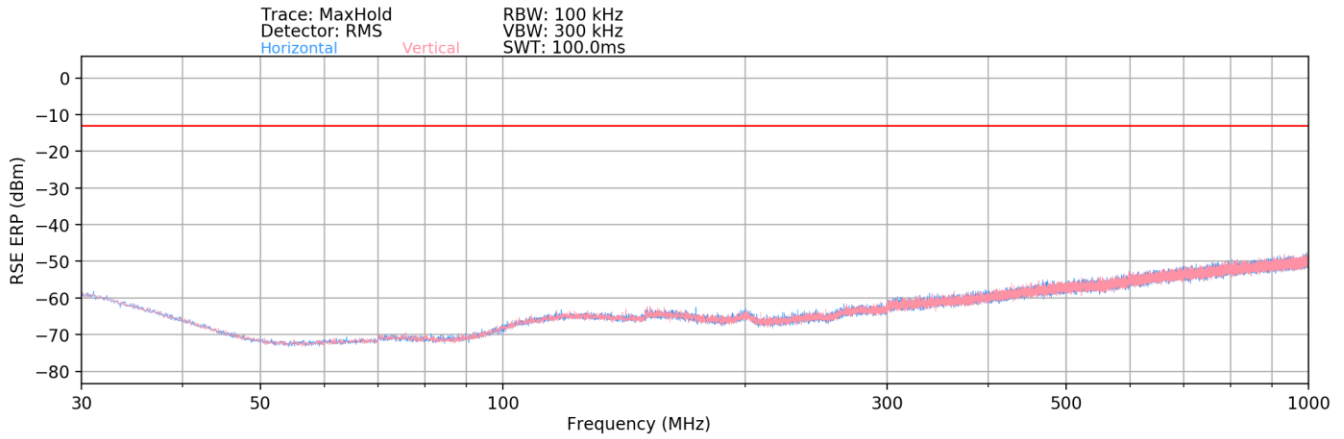
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

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]
3505.2	H	341	27	-79.25	7.72	35.47	-59.79	-13.00	-46.79
5257.8	H	126	222	-64.75	10.65	52.90	-42.36	-13.00	-29.36
7010.4	H	-	-	-82.57	15.24	39.67	-55.58	-13.00	-42.58
8763.0	H	-	-	-83.01	17.76	41.75	-53.51	-13.00	-40.51
10515.6	H	-	-	-83.44	20.65	44.21	-51.05	-13.00	-38.05

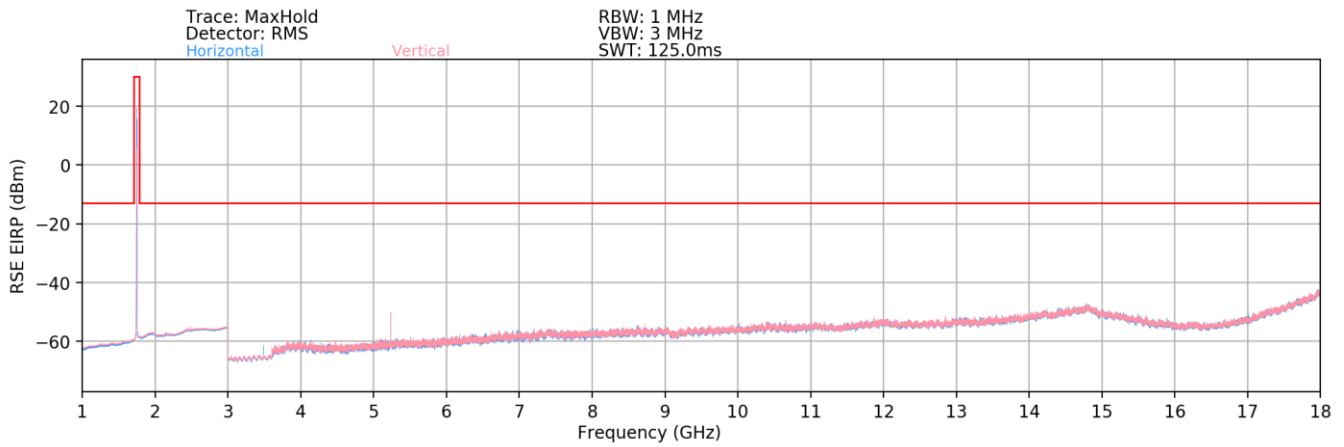
Table 7-21. Radiated Spurious Data (WCDMA AWS – High Channel – Ant B)

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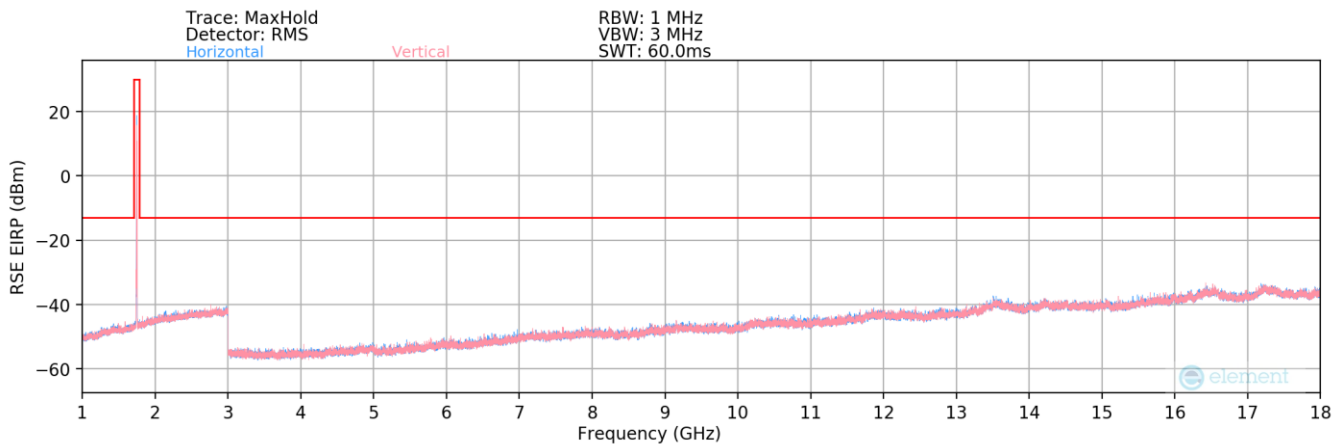
LTE Band 66/4 – Ant B



Plot 7-321. Radiated Spurious Plot (LTE Band 66/4 – Ant B) below 1GHz



Plot 7-322. Radiated Spurious Plot (LTE Band 66/4 – Ant B) above 1GHz – Closed



Plot 7-323. Radiated Spurious Plot (LTE Band 66/4 – Ant B) above 1GHz – Open

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
45.00	H	-	-	-91.97	16.77	31.80	-50.90	-13.00	-37.90
211.00	H	-	-	-91.69	17.41	32.72	-49.98	-13.00	-36.98
495.00	H	-	-	-91.03	25.37	41.34	-41.37	-13.00	-28.37

Table 7-22. Radiated Spurious Data (LTE Band 66/4 – Ant B) below 1GHz

Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 50
Detector / Trace Mode:	RMS / Average

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]
3440.00	H	107	228	-71.58	-0.52	34.90	-60.36	-13.00	-47.36
5160.00	H	150	142	-67.75	2.11	41.36	-53.90	-13.00	-40.90
6880.00	H	120	25	-76.70	5.79	36.09	-59.17	-13.00	-46.17
8600.00	H	-	-	-81.24	8.93	34.69	-60.56	-13.00	-47.56
10320.00	H	-	-	-81.83	11.73	36.90	-58.36	-13.00	-45.36
12040.00	H	-	-	-81.34	12.68	38.34	-56.92	-13.00	-43.92

Table 7-23. Radiated Spurious Data (LTE Band 66/4 – Low Channel – Ant B)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50
Detector / Trace Mode:	RMS / Average

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]
3490.00	H	142	221	-73.59	-1.08	32.33	-62.92	-13.00	-49.92
5235.00	H	137	246	-67.19	2.23	42.04	-53.21	-13.00	-40.21
6980.00	H	109	30	-77.71	6.85	36.14	-59.11	-13.00	-46.11
8725.00	H	-	-	-80.62	8.99	35.37	-59.88	-13.00	-46.88
10470.00	H	-	-	-81.97	11.52	36.55	-58.71	-13.00	-45.71
12215.00	H	-	-	-81.78	12.49	37.71	-57.55	-13.00	-44.55

Table 7-24. Radiated Spurious Data (LTE Band 66/4 – Mid Channel – Ant B)

FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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