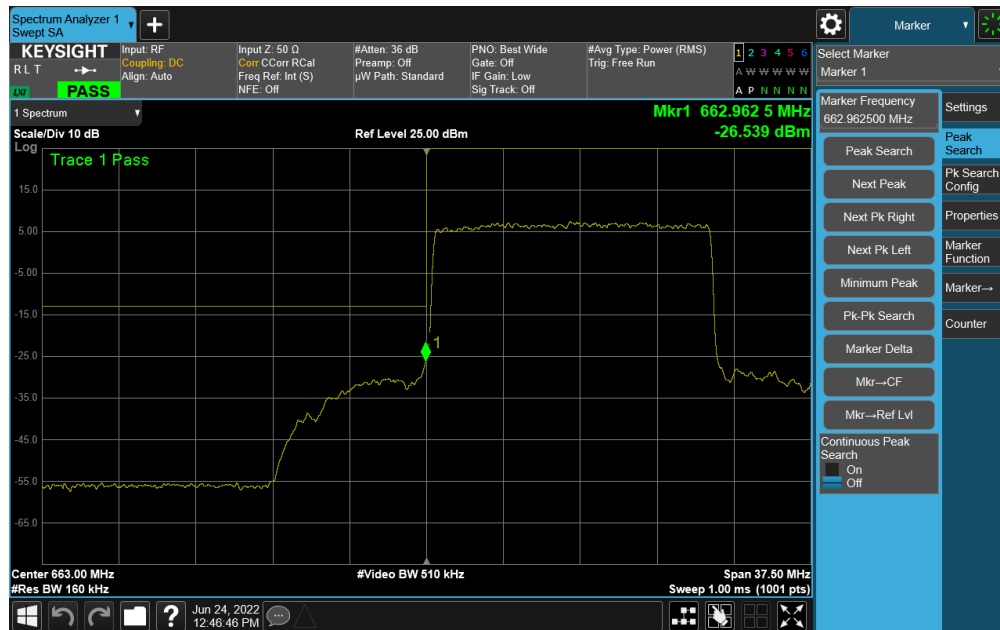
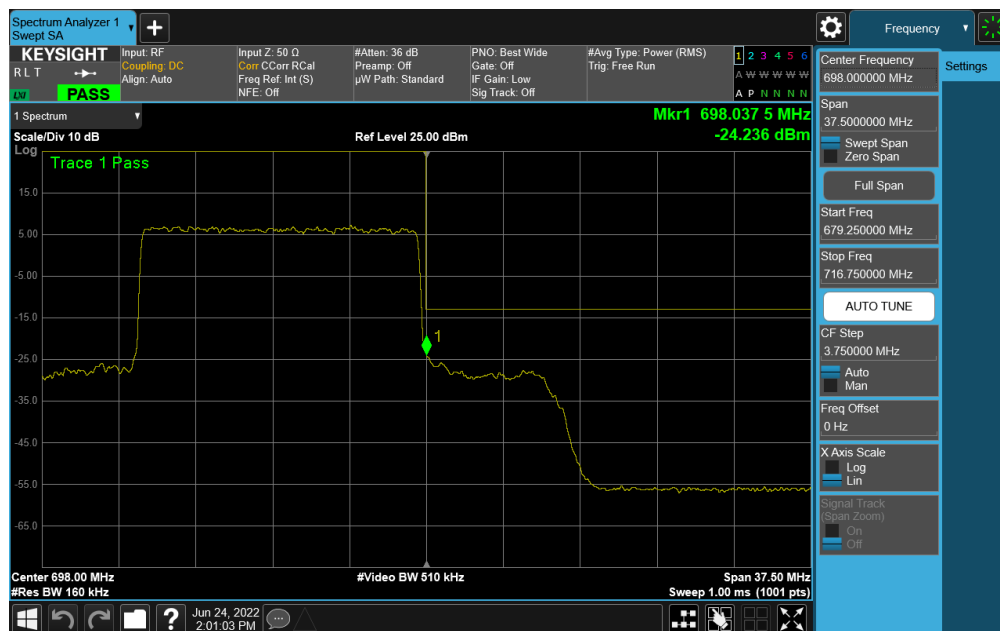


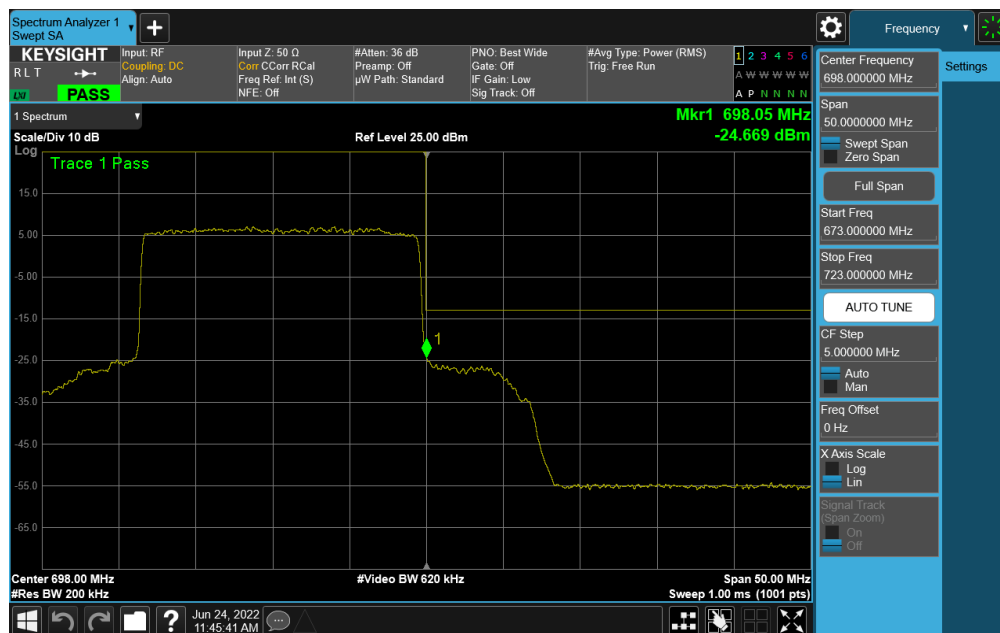
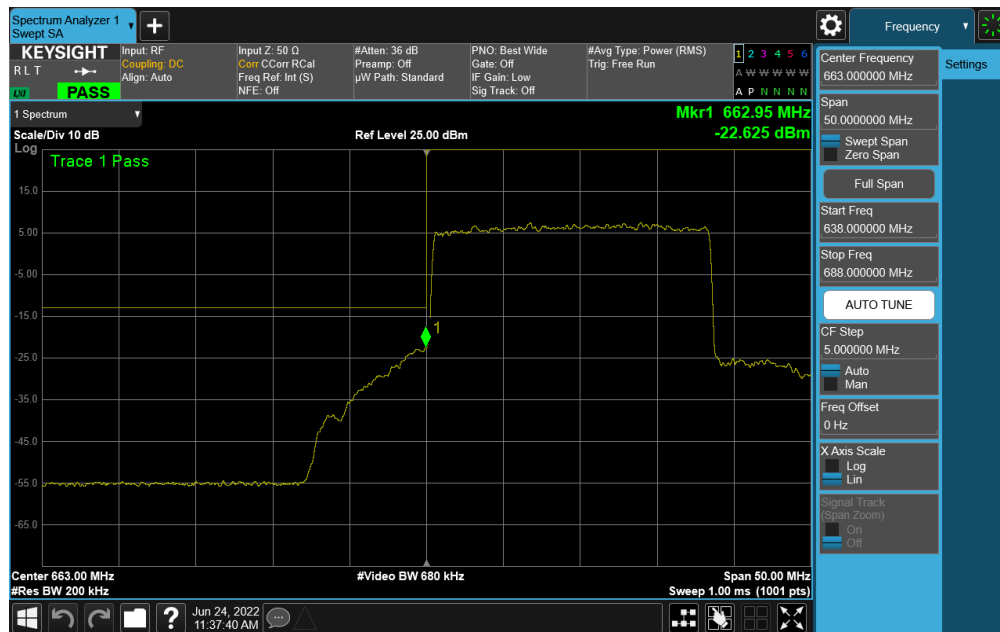


Plot 7-337. Lower Band Edge Plot (NR Band n71 – 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

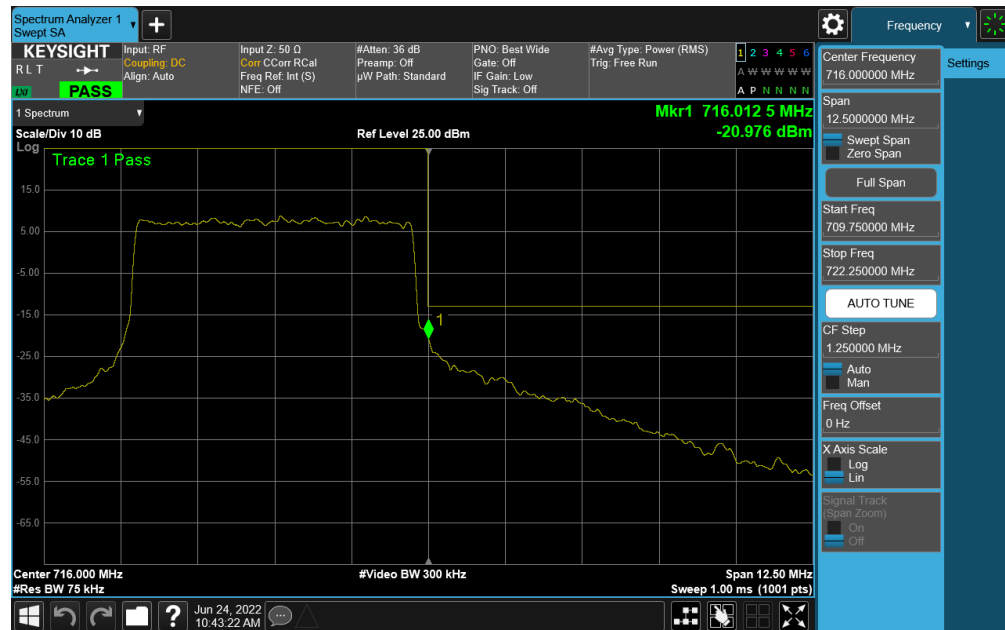
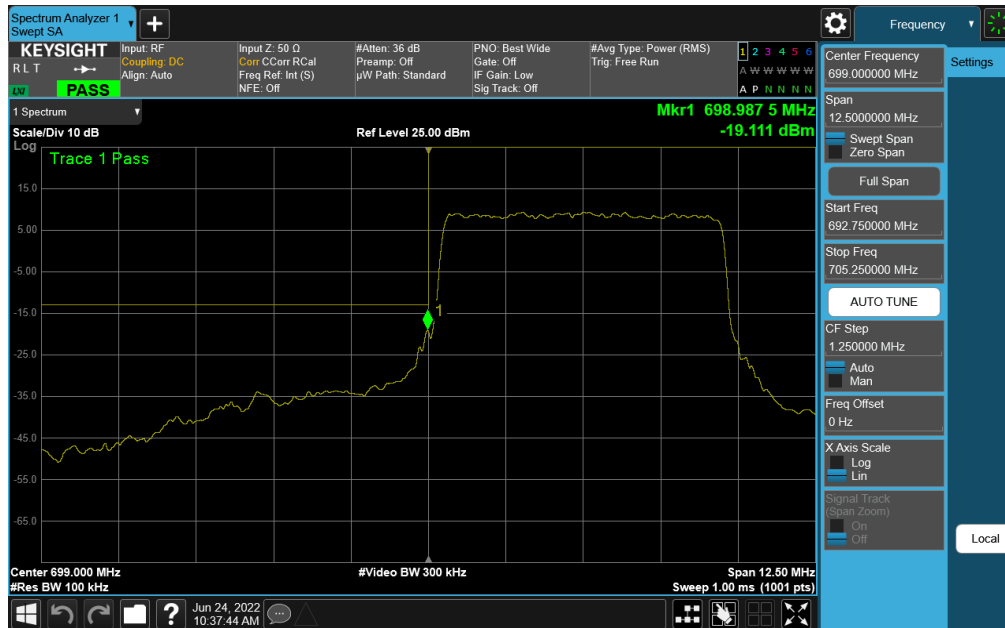


Plot 7-338. Upper Band Edge Plot (NR Band n71 – 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

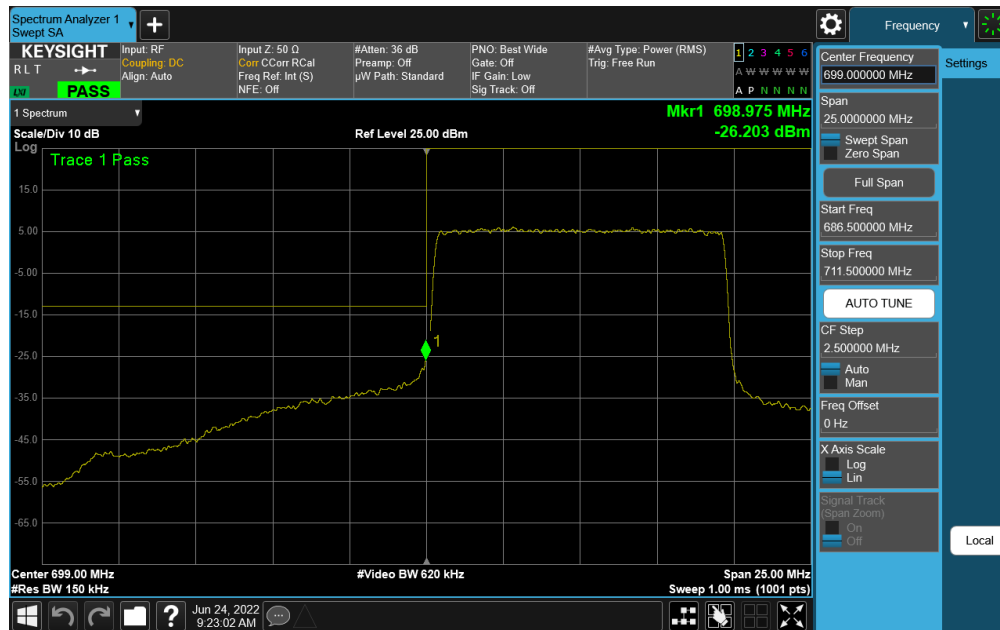
FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 196 of 334



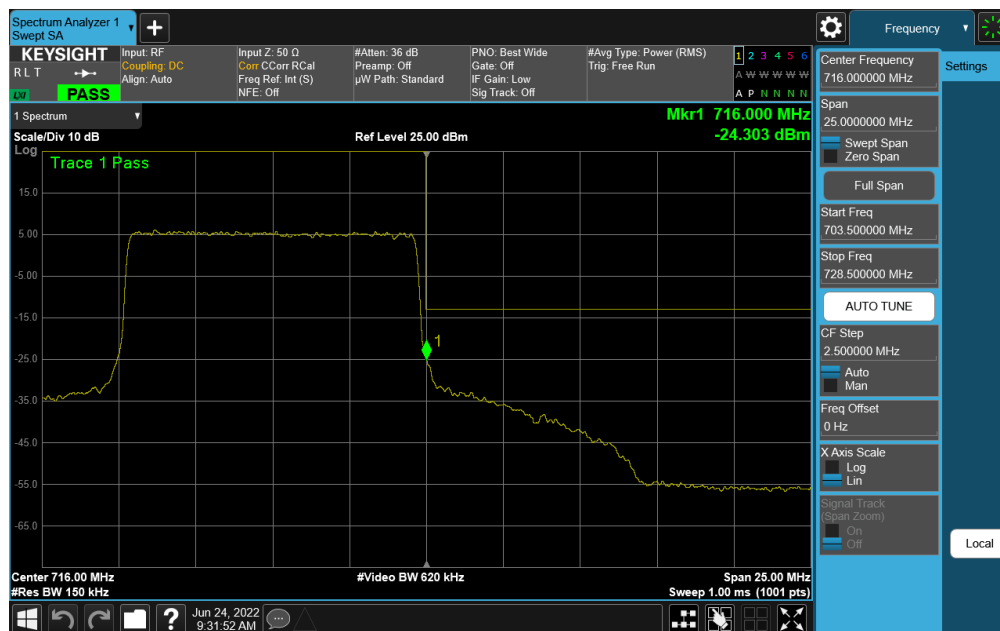
FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 197 of 334



FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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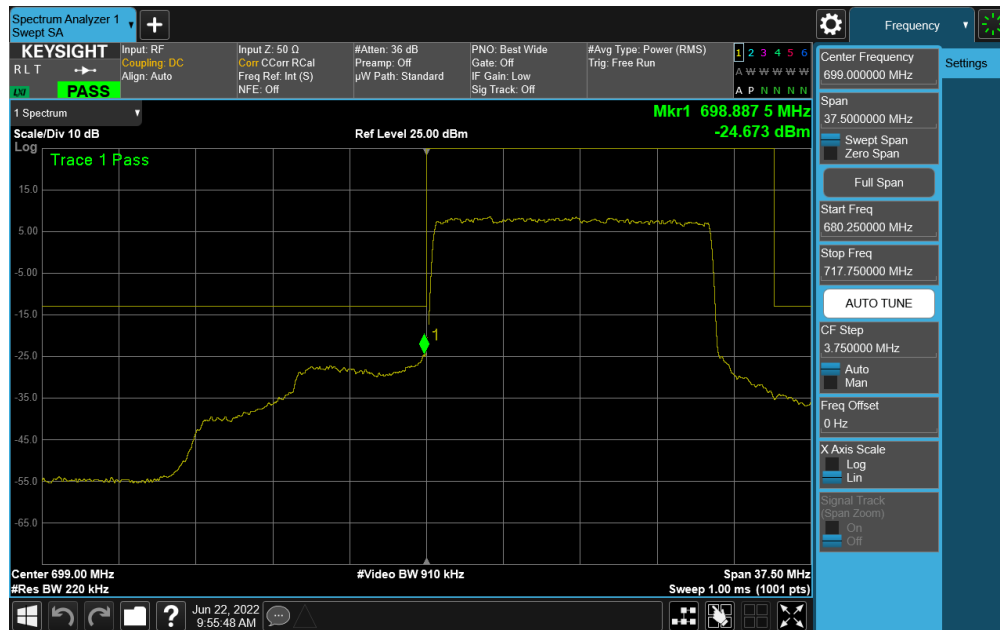


Plot 7-343. Lower Band Edge Plot (NR Band n12 - 10.0MHz CP-OFDM $\pi/2$ BPSK - Full RB)

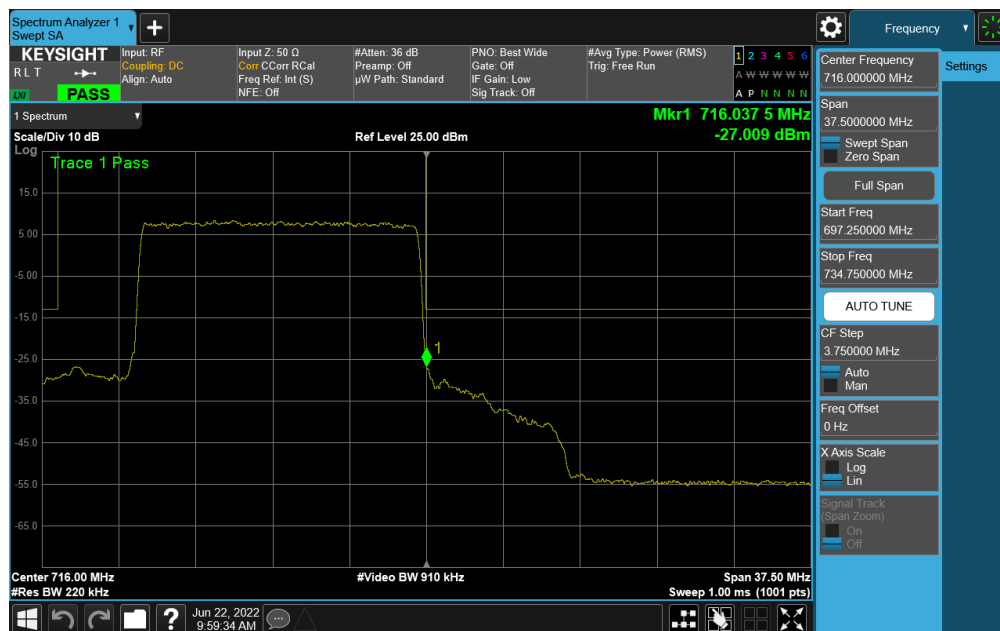


Plot 7-344. Upper Band Edge Plot (NR Band n12 - 10.0MHz CP-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-345. Lower Band Edge Plot (NR Band n12 – 15.0MHz DFT-s-OFDM QPSK - Full RB)

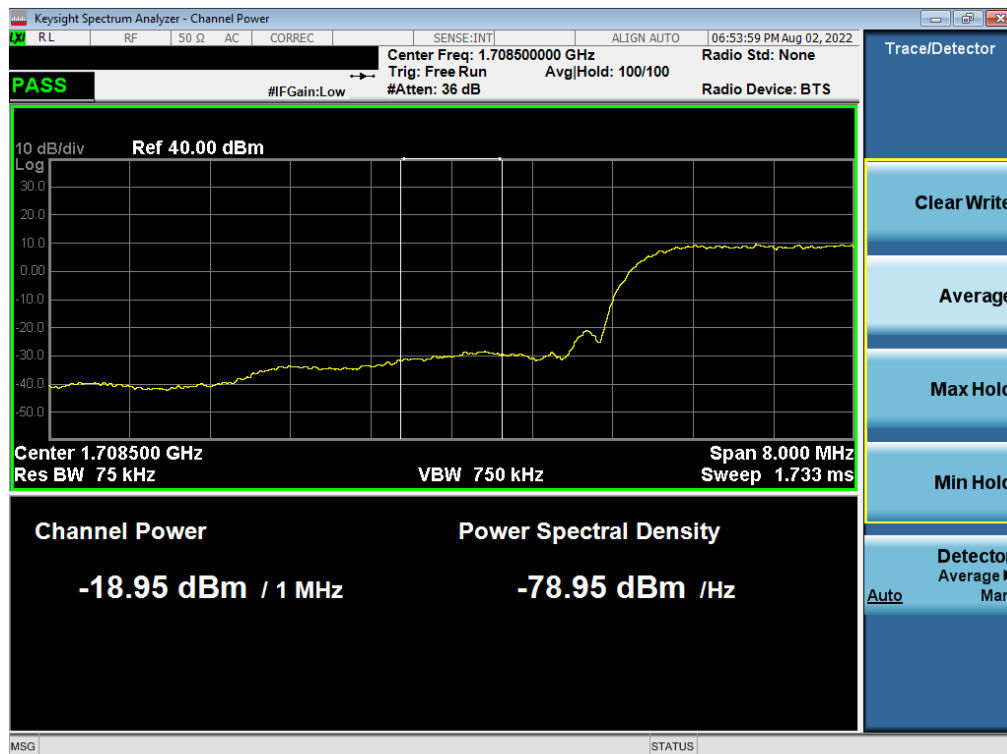


Plot 7-346. Upper Band Edge Plot (NR Band n12 – 15.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 200 of 334



Plot 7-347. Lower Band Edge Plot (WCDMA AWS – Ch. 1312)

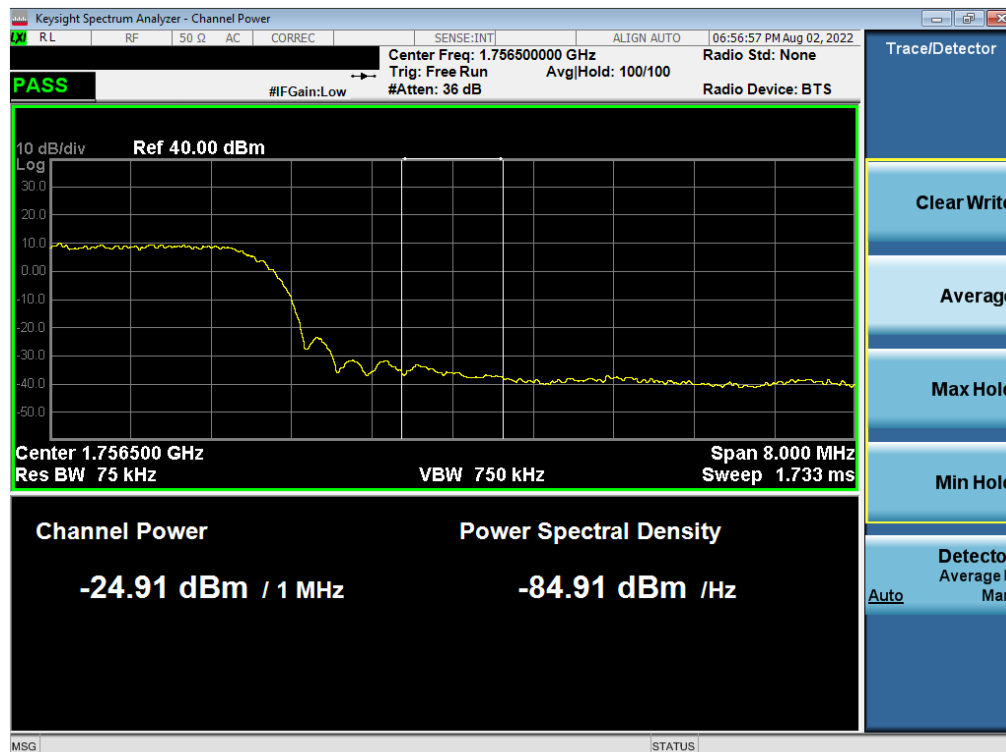


Plot 7-348. Lower Extended Band Edge Plot (WCDMA AWS – Ch. 1312)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 201 of 334



Plot 7-349. Upper Band Edge Plot (WCDMA AWS – Ch. 1513)



Plot 7-350. Upper Extended Band Edge Plot (WCDMA AWS – Ch. 1513)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 202 of 334

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. All ports were tested and only the worst case data were reported.

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

Test Setup

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

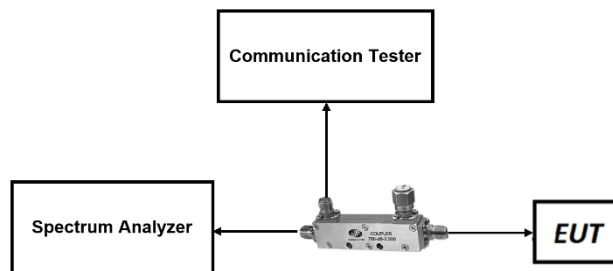


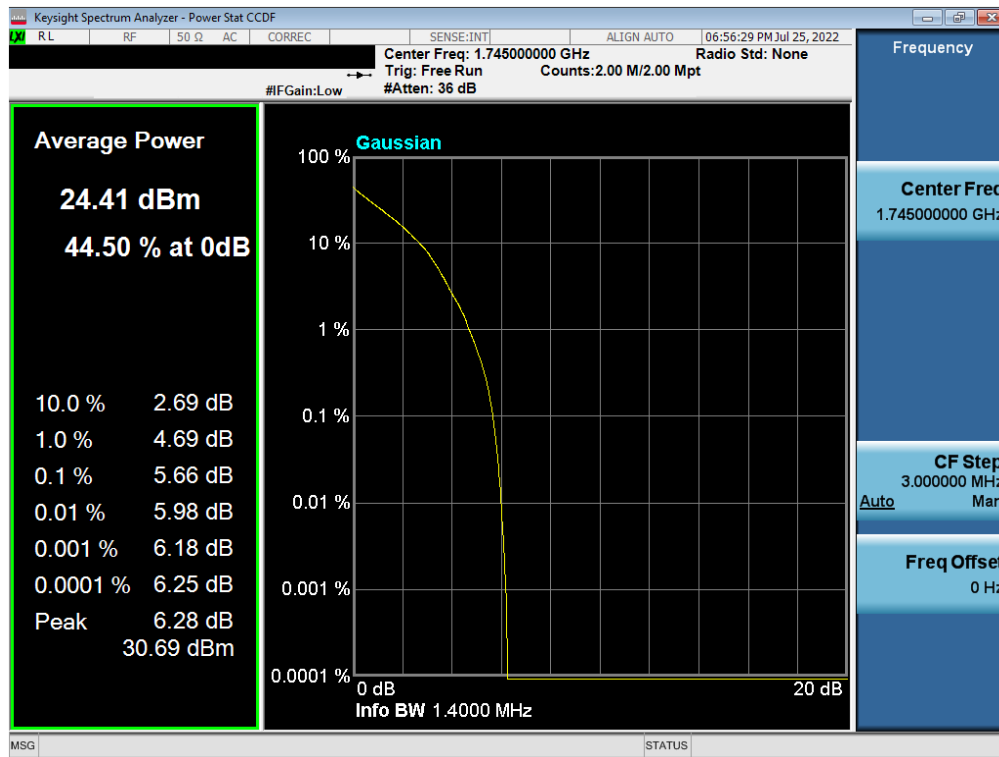
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

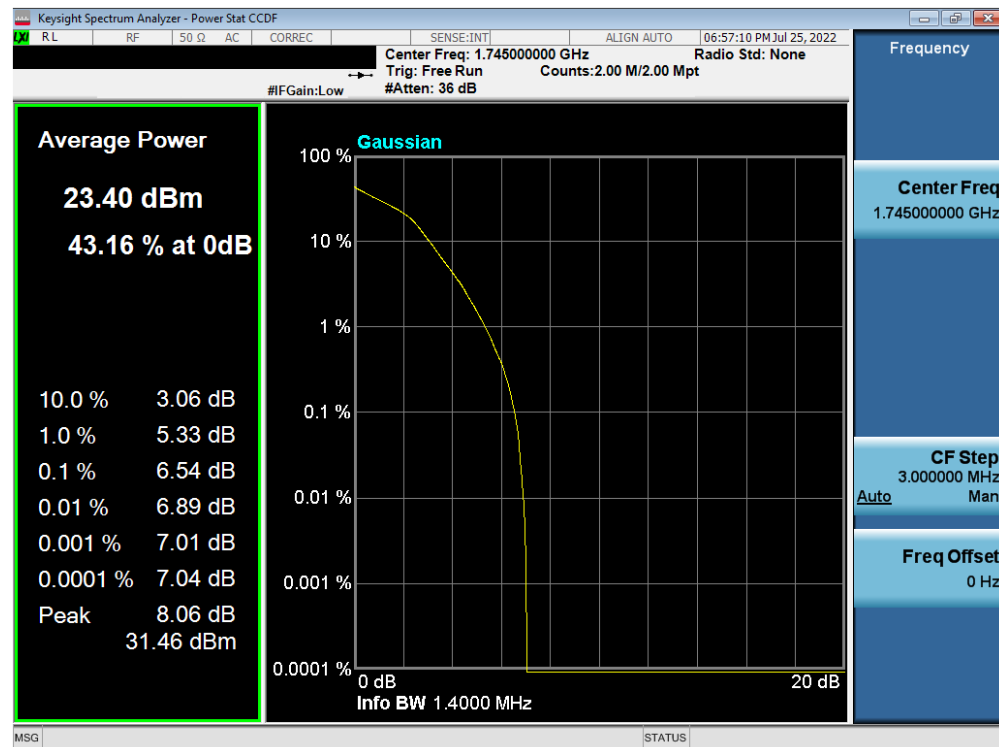
None.

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 66

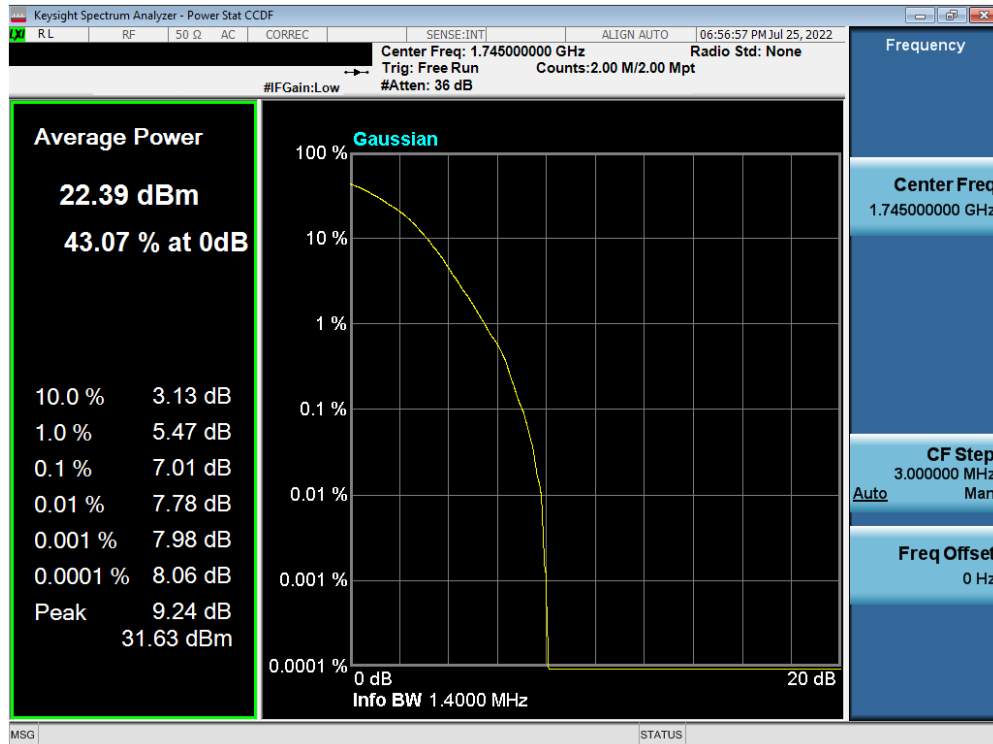


Plot 7-351. PAR Plot (LTE Band 66 - 1.4MHz QPSK - Full RB)

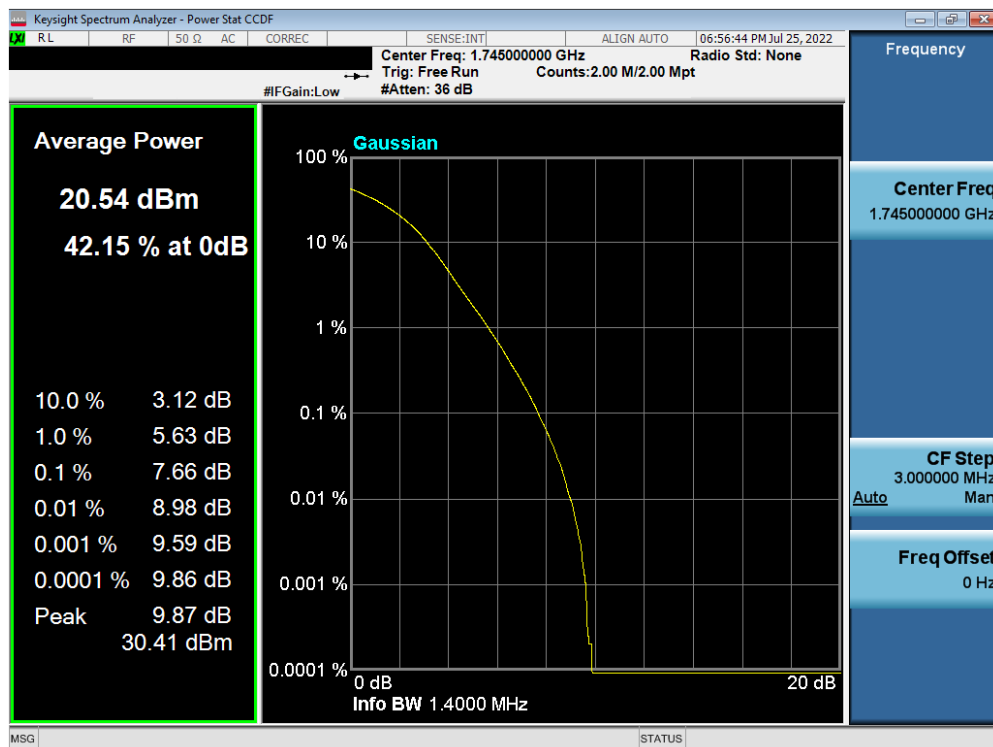


Plot 7-352. PAR Plot (LTE Band 66 - 1.4MHz 16-QAM - Full RB)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 204 of 334

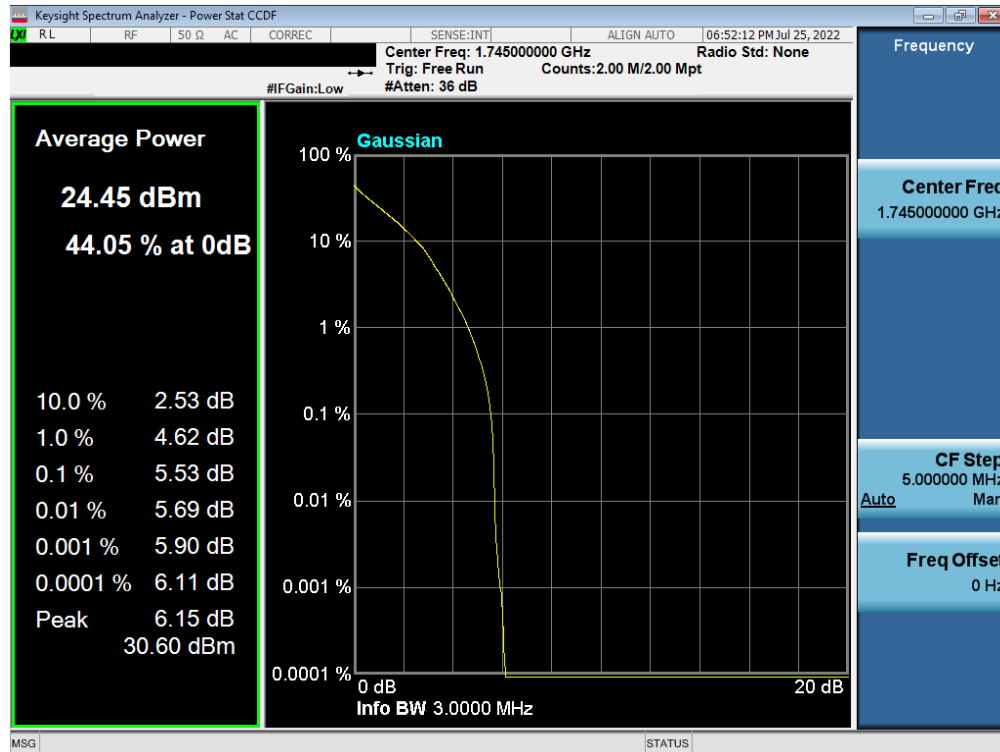


Plot 7-353. PAR Plot (LTE Band 66 - 1.4MHz 64-QAM - Full RB)

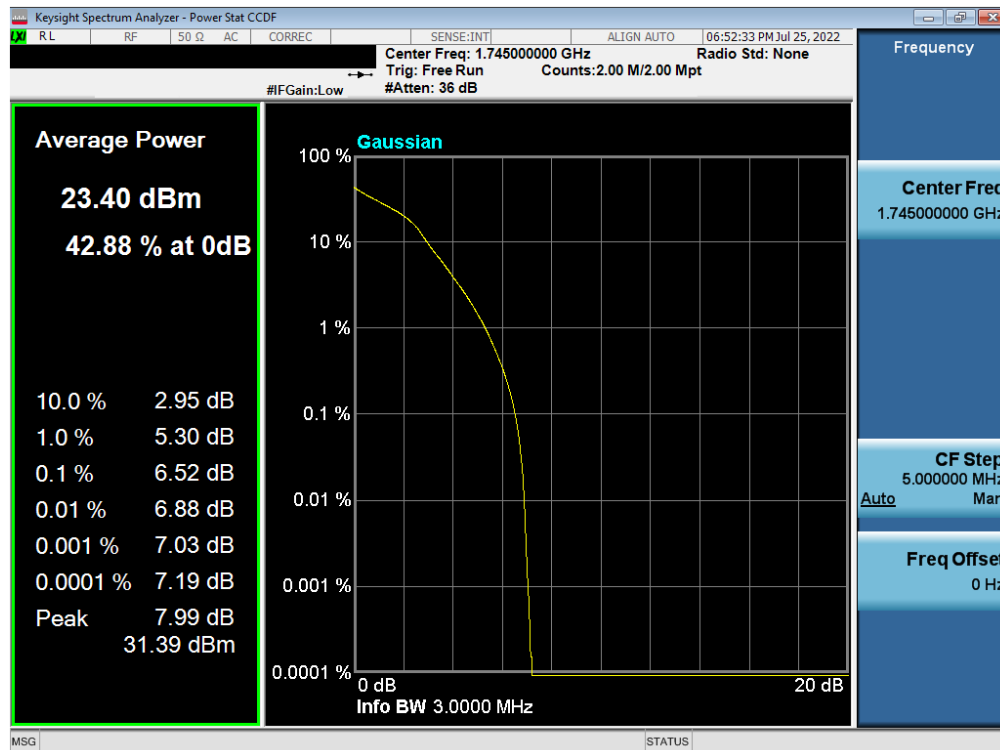


Plot 7-354. PAR Plot (LTE Band 66 - 1.4MHz 256-QAM - Full RB)

FCC ID: BCGA2764	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 205 of 334

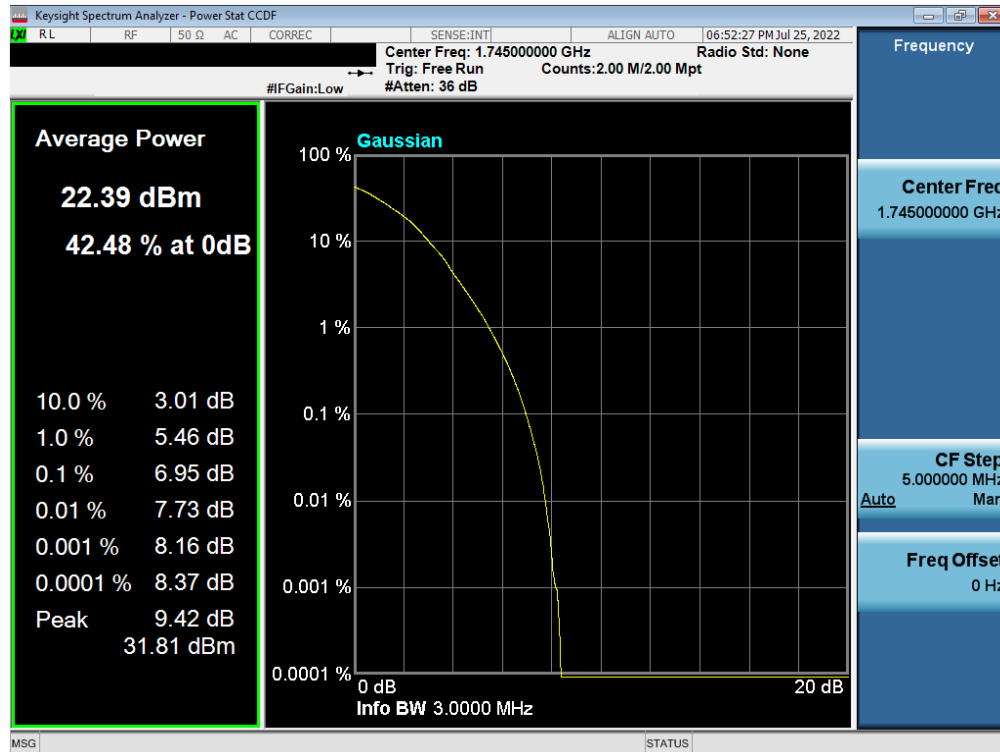


Plot 7-355. PAR Plot (LTE Band 66 - 3MHz QPSK - Full RB)

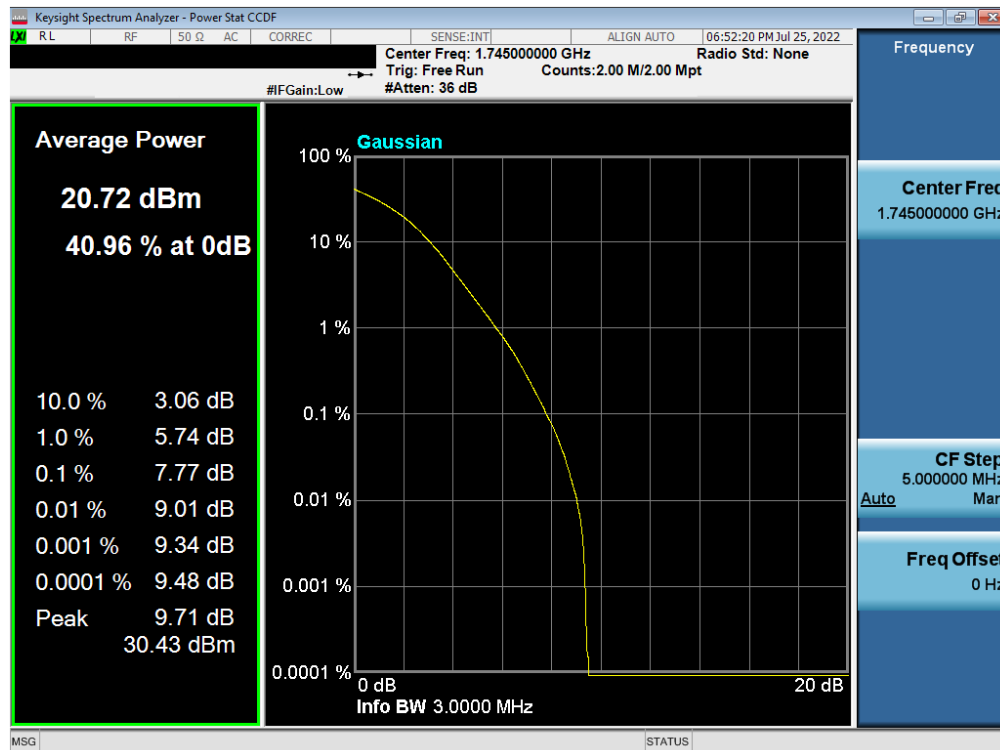


Plot 7-356. PAR Plot (LTE Band 66 - 3MHz 16-QAM - Full RB)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 206 of 334

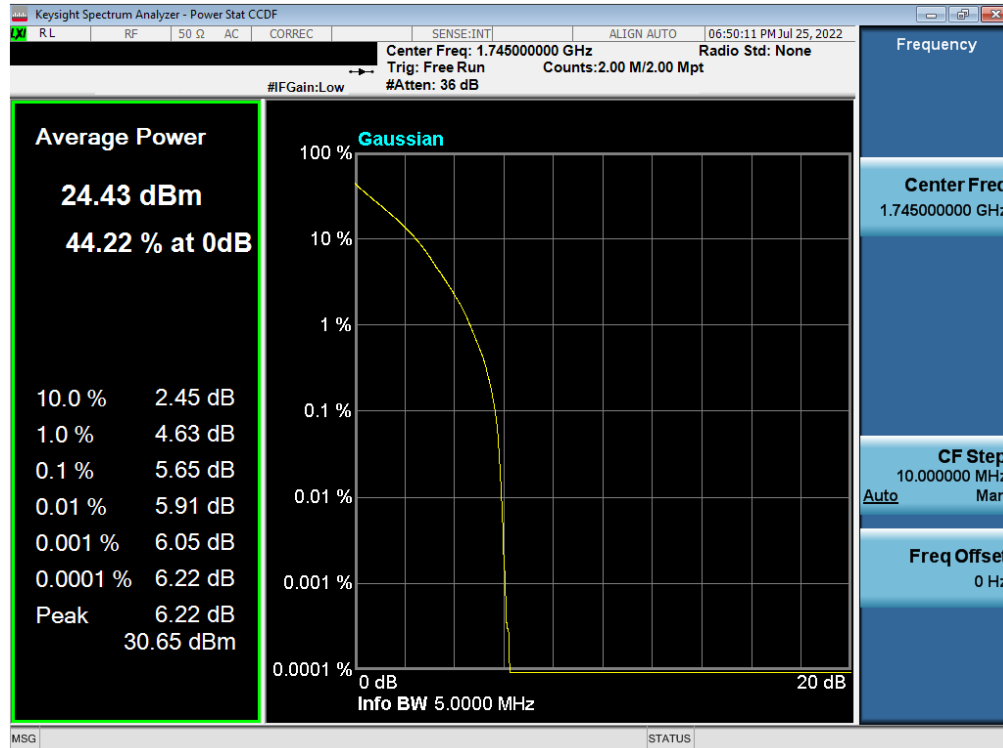


Plot 7-357. PAR Plot (LTE Band 66 - 3MHz 64-QAM - Full RB)

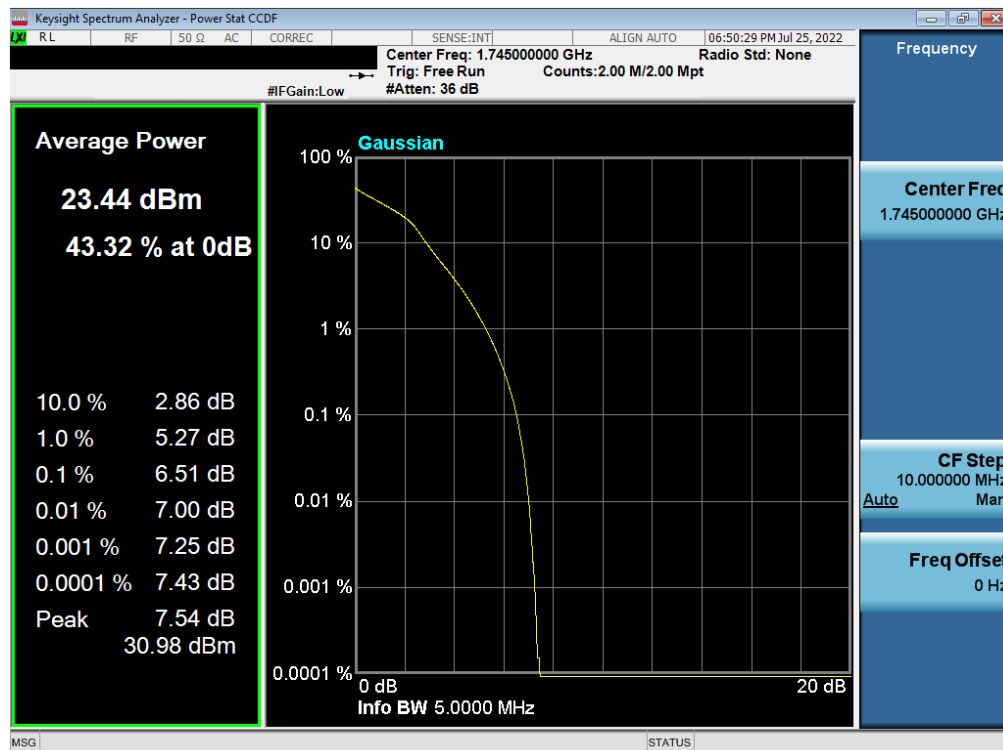


Plot 7-358. PAR Plot (LTE Band 66 - 3MHz 256-QAM - Full RB)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 207 of 334

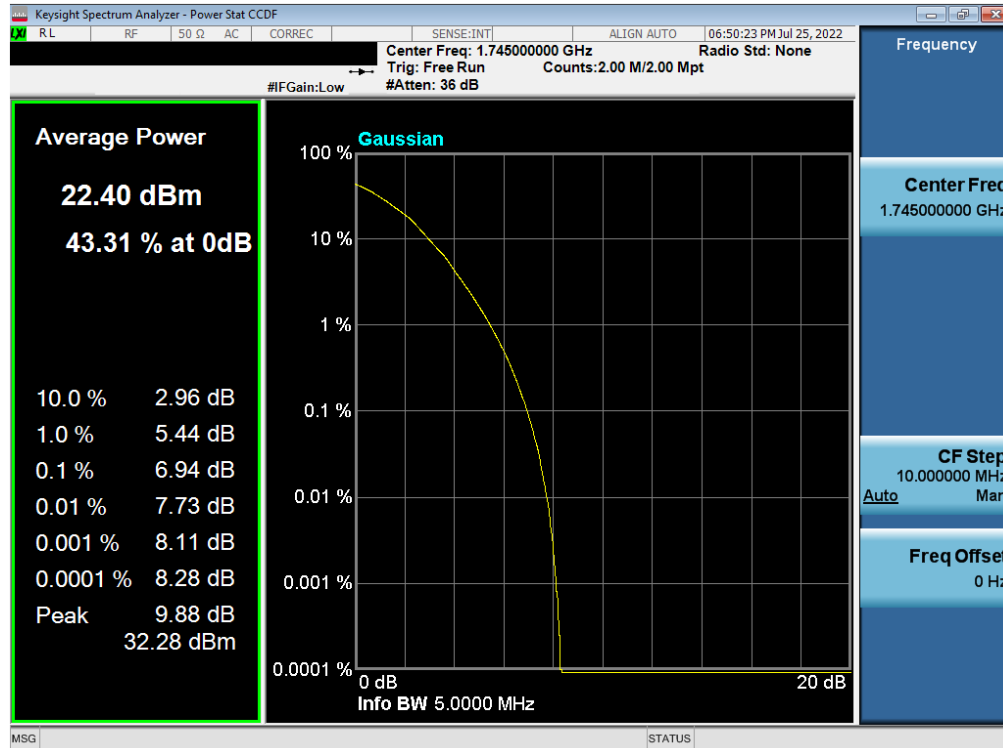


Plot 7-359. PAR Plot (LTE Band 66 - 5MHz QPSK - Full RB)

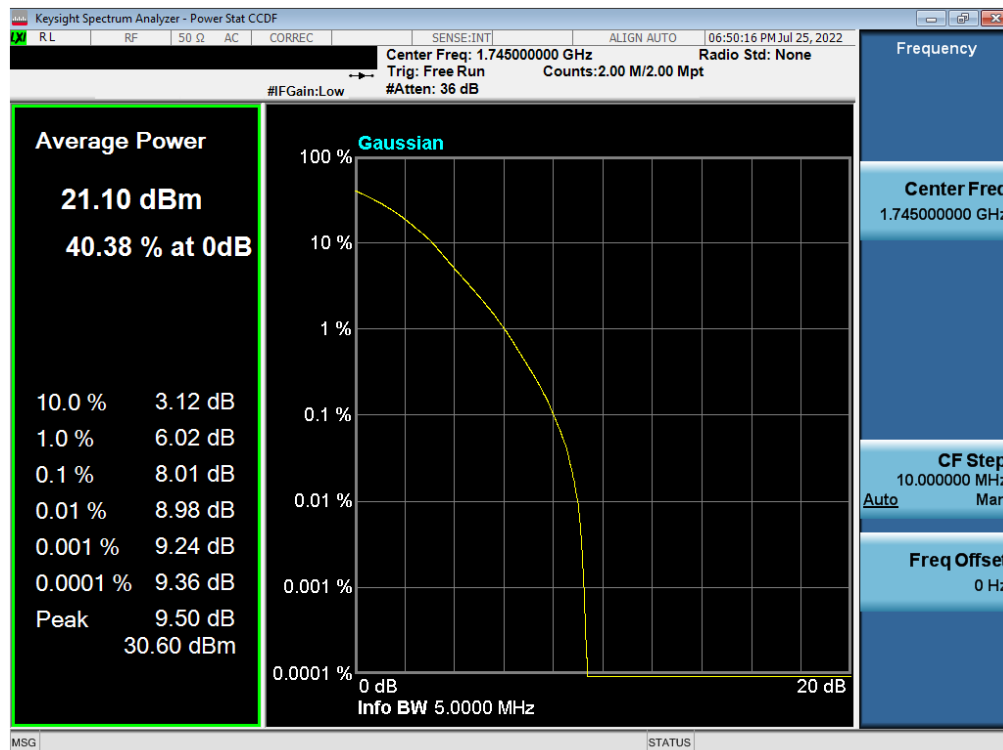


Plot 7-360. PAR Plot (LTE Band 66 - 5MHz 16-QAM - Full RB)

FCC ID: BCGA2764	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 208 of 334

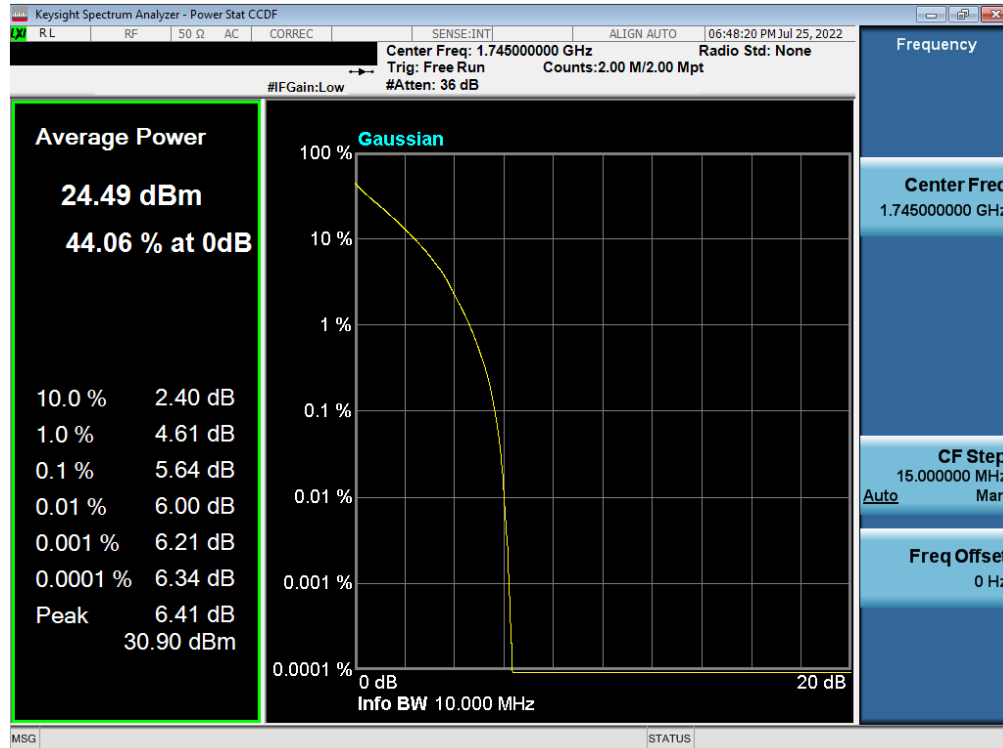


Plot 7-361. PAR Plot (LTE Band 66 - 5MHz 64-QAM - Full RB)

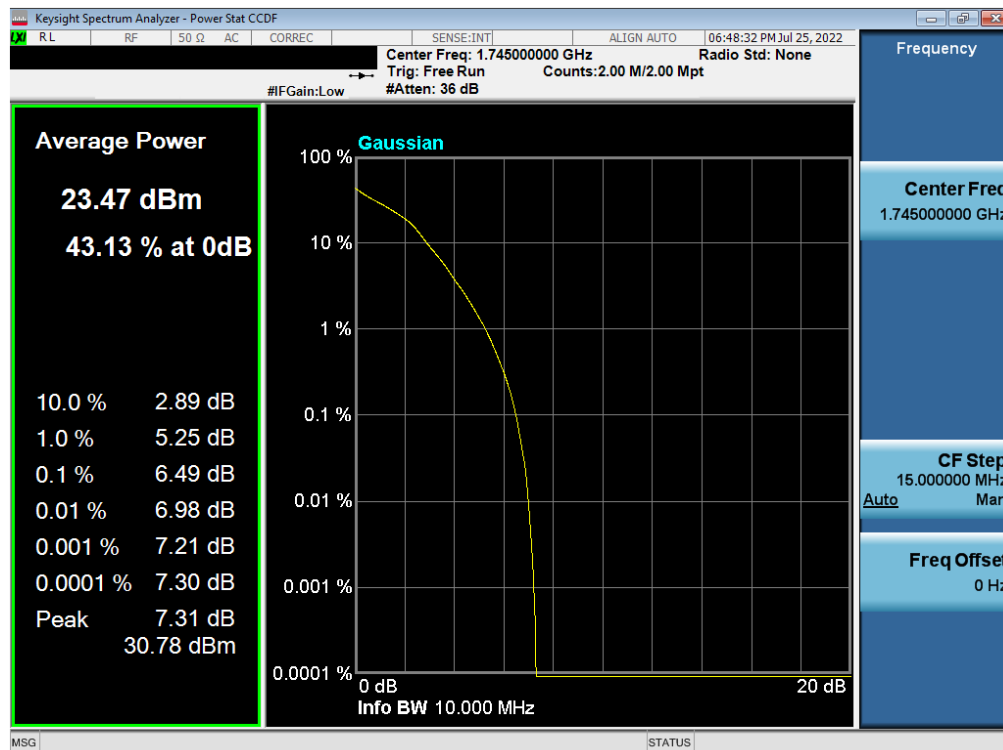


Plot 7-362. PAR Plot (LTE Band 66 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 209 of 334

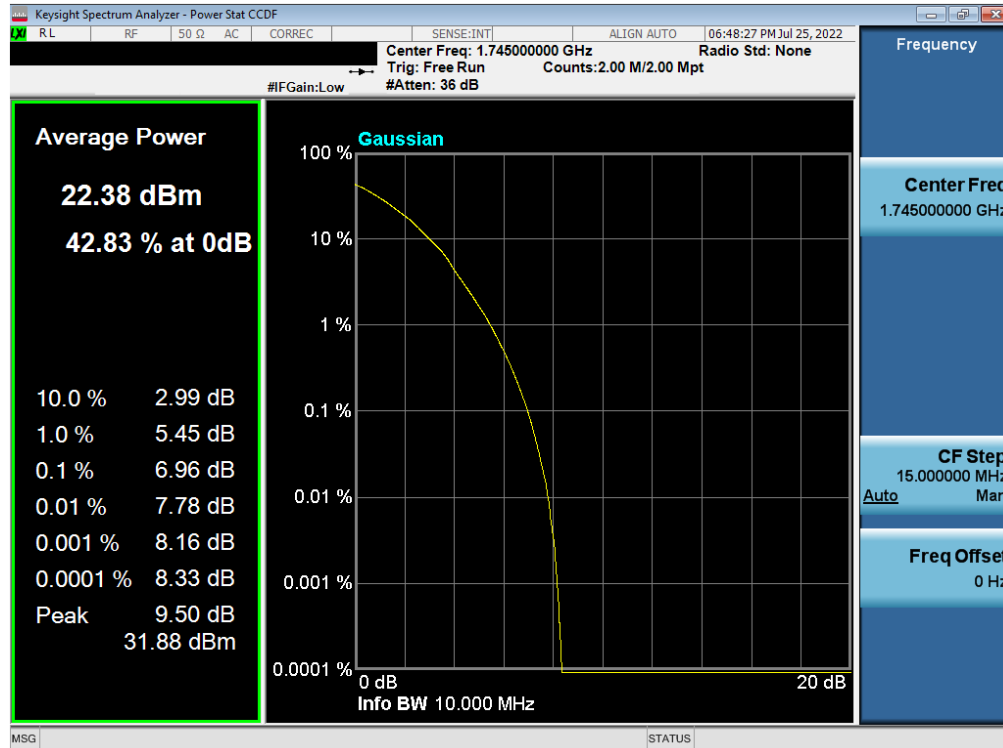


Plot 7-363. PAR Plot (LTE Band 66 - 10MHz QPSK - Full RB)

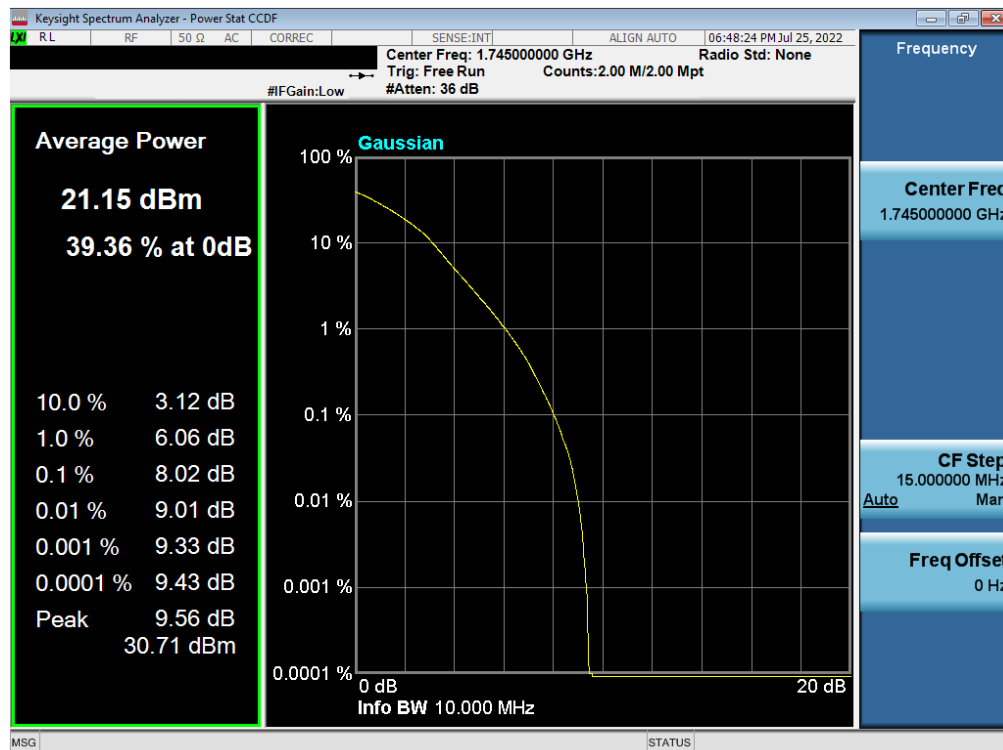


Plot 7-364. PAR Plot (LTE Band 66 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 210 of 334

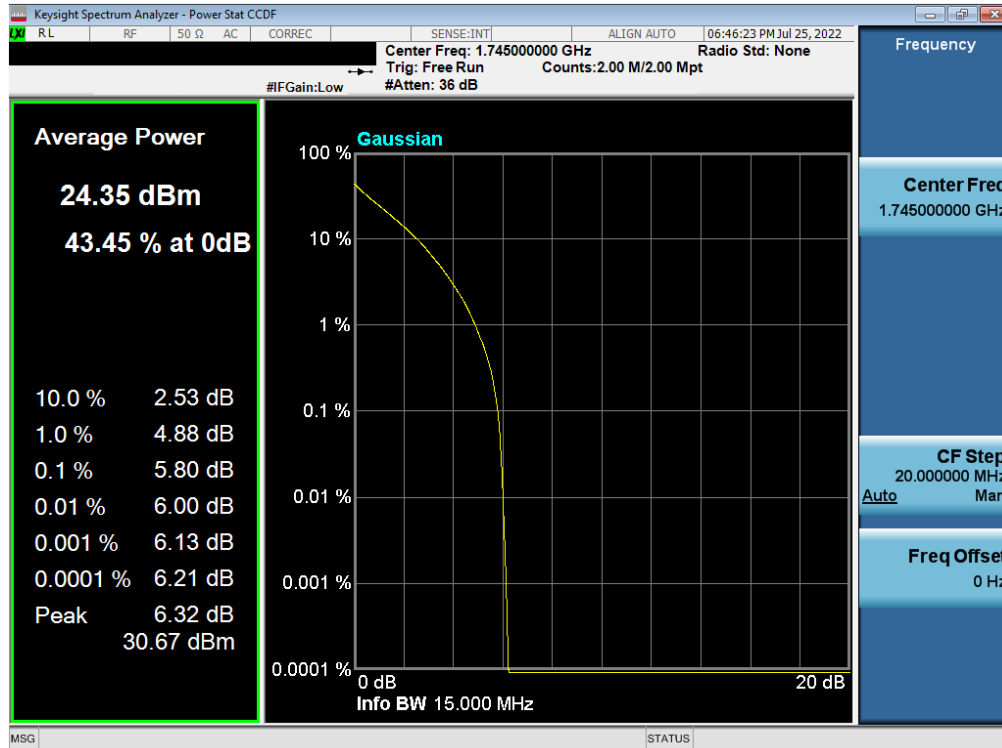


Plot 7-365. PAR Plot (LTE Band 66 - 10MHz 64-QAM - Full RB)

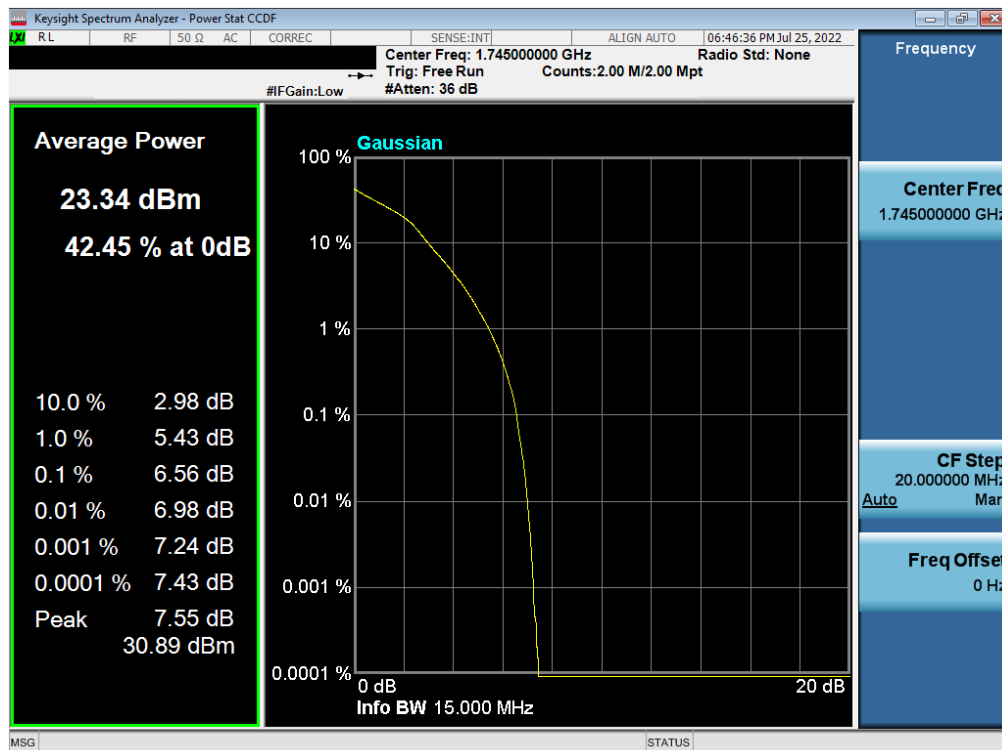


Plot 7-366. PAR Plot (LTE Band 66 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 211 of 334

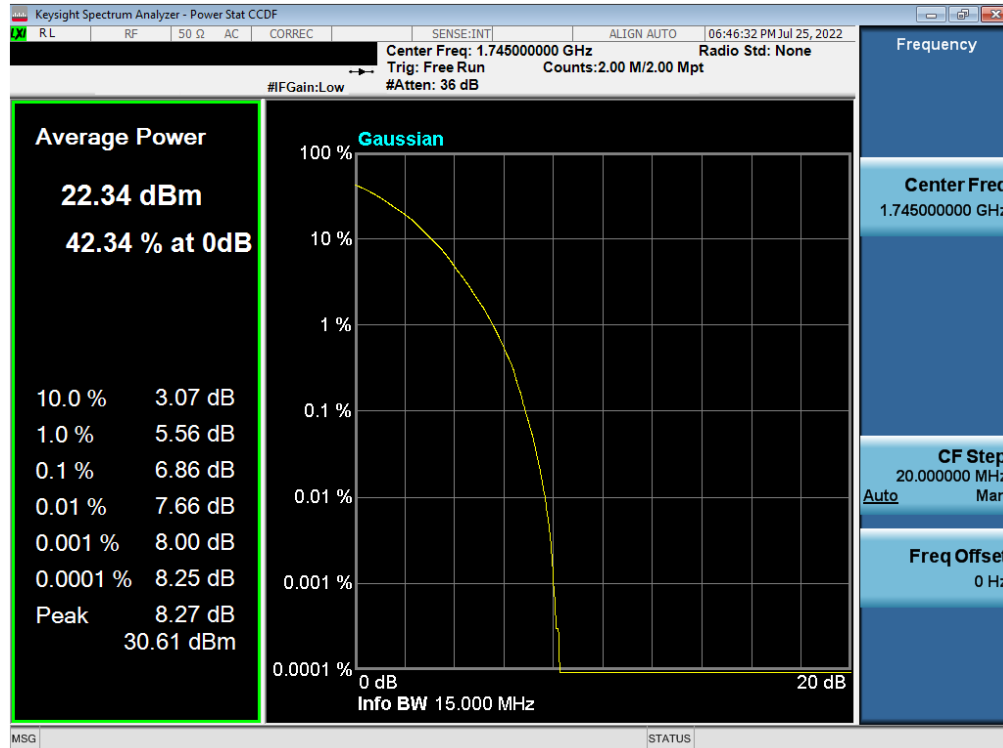


Plot 7-367. PAR Plot (LTE Band 66 - 15MHz QPSK - Full RB)

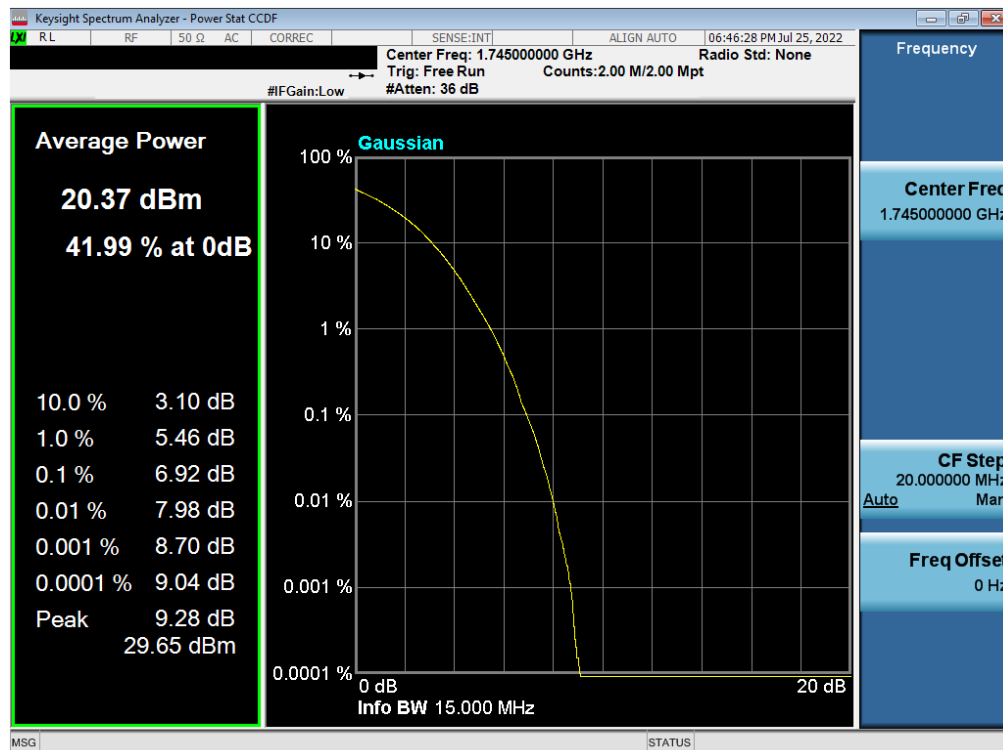


Plot 7-368. PAR Plot (LTE Band 66 - 15MHz 16-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 212 of 334

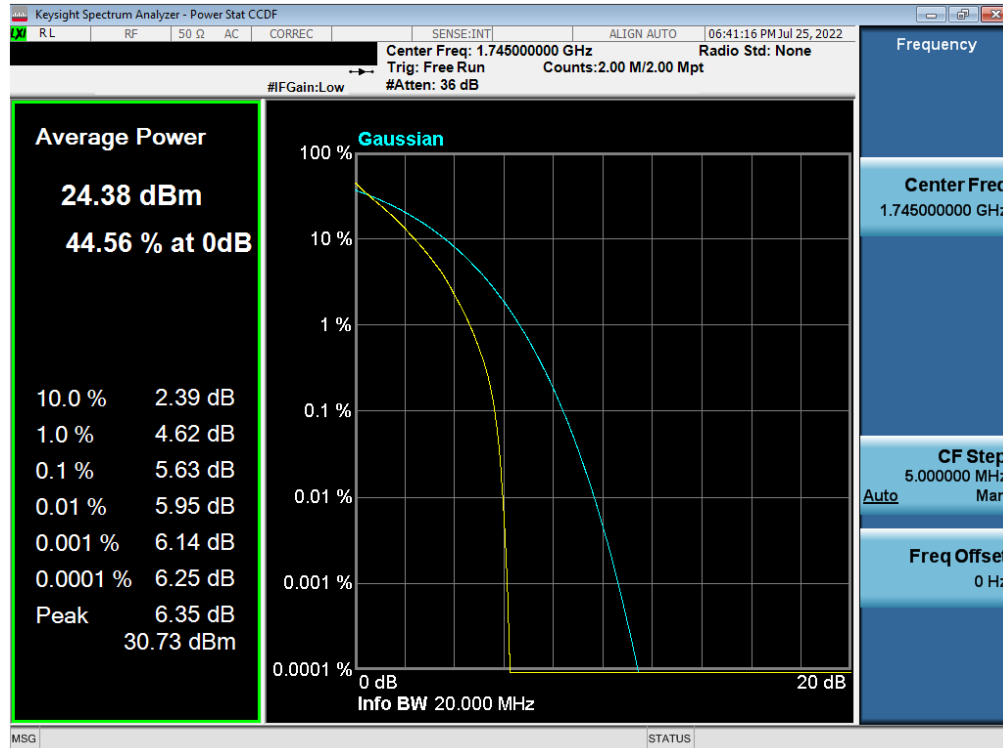


Plot 7-369. PAR Plot (LTE Band 66 - 15MHz 64-QAM - Full RB)

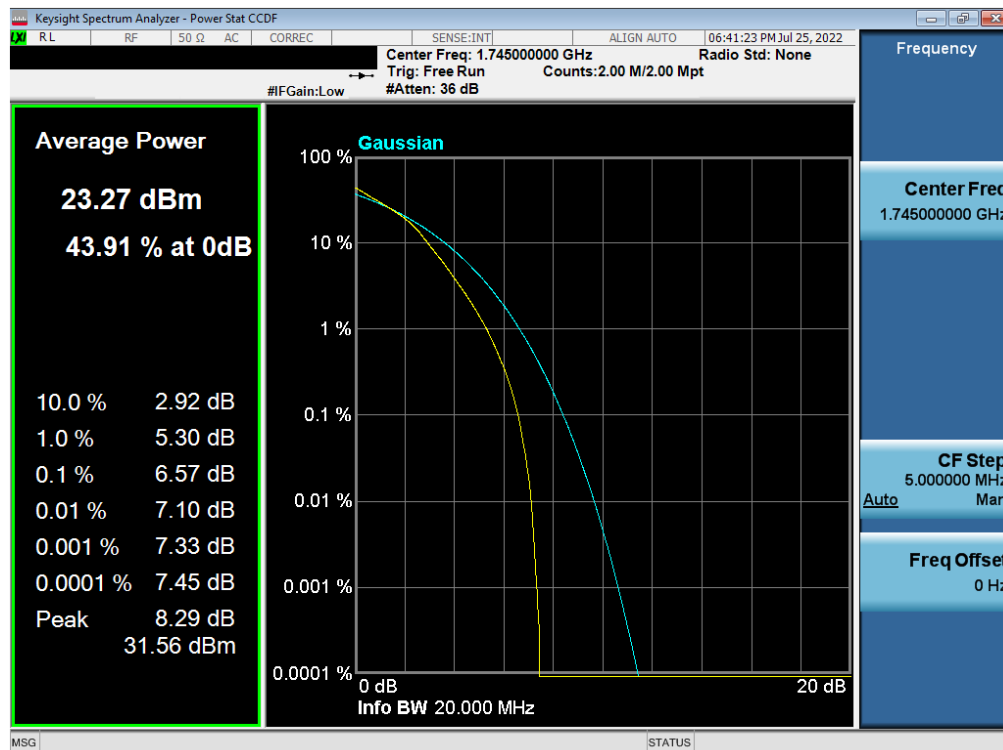


Plot 7-370. PAR Plot (LTE Band 66 - 15MHz 256-QAM - Full RB)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 213 of 334

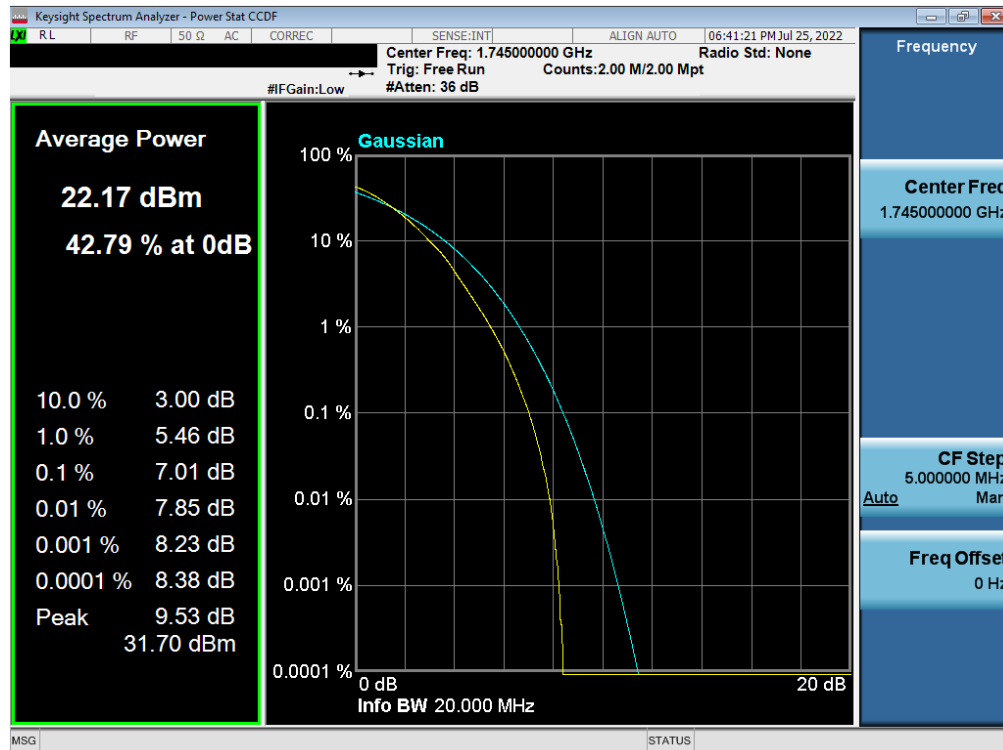


Plot 7-371. PAR Plot (LTE Band 66 - 20MHz QPSK - Full RB)

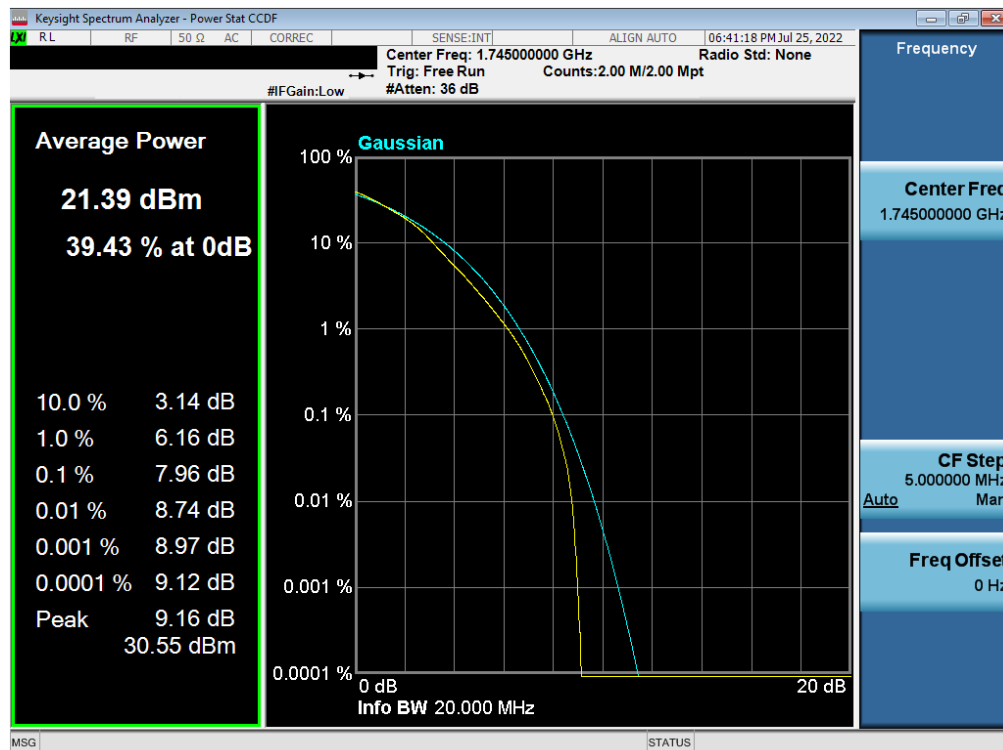


Plot 7-372. PAR Plot (LTE Band 66 - 20MHz 16-QAM - Full RB)

FCC ID: BCGA2764	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 214 of 334



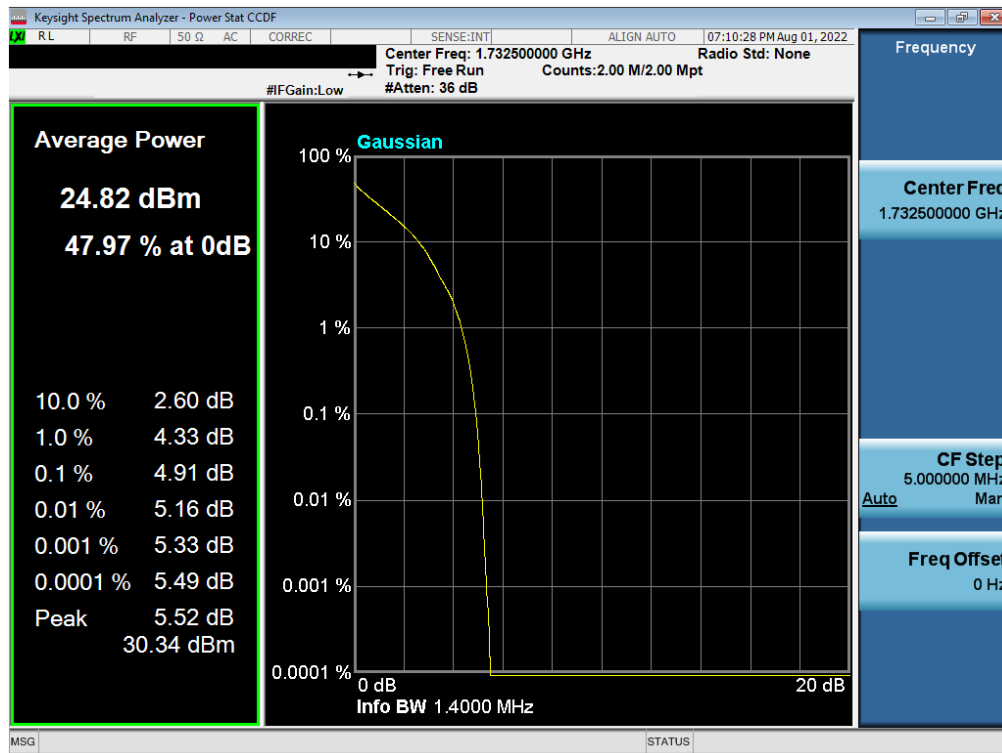
Plot 7-373. PAR Plot (LTE Band 66 - 20MHz 64-QAM - Full RB)



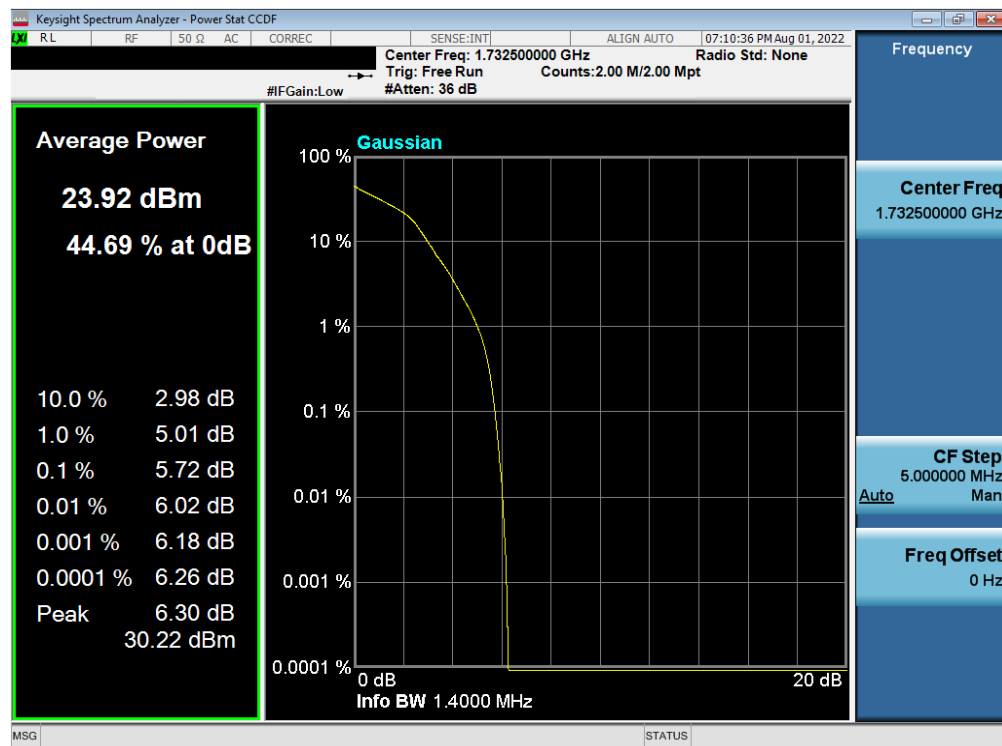
Plot 7-374. PAR Plot (LTE Band 66 - 20MHz 256-QAM - Full RB)

FCC ID: BCGA2764	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 215 of 334

LTE Band 4

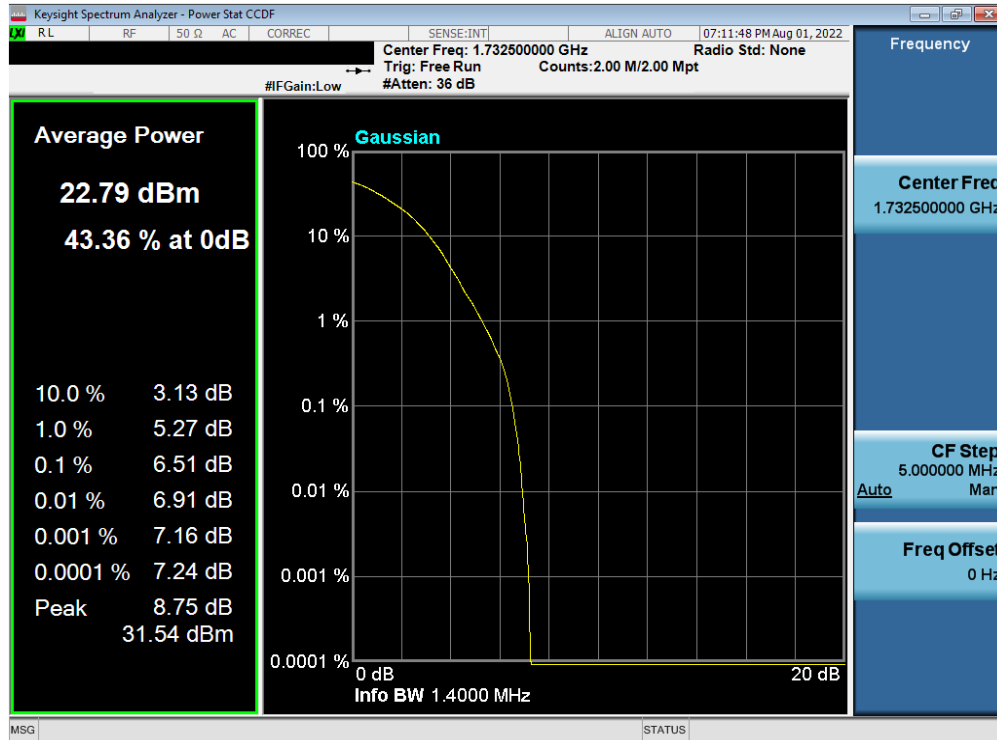


Plot 7-375. PAR Plot (LTE Band 4 - 1.4MHz QPSK - Full RB)

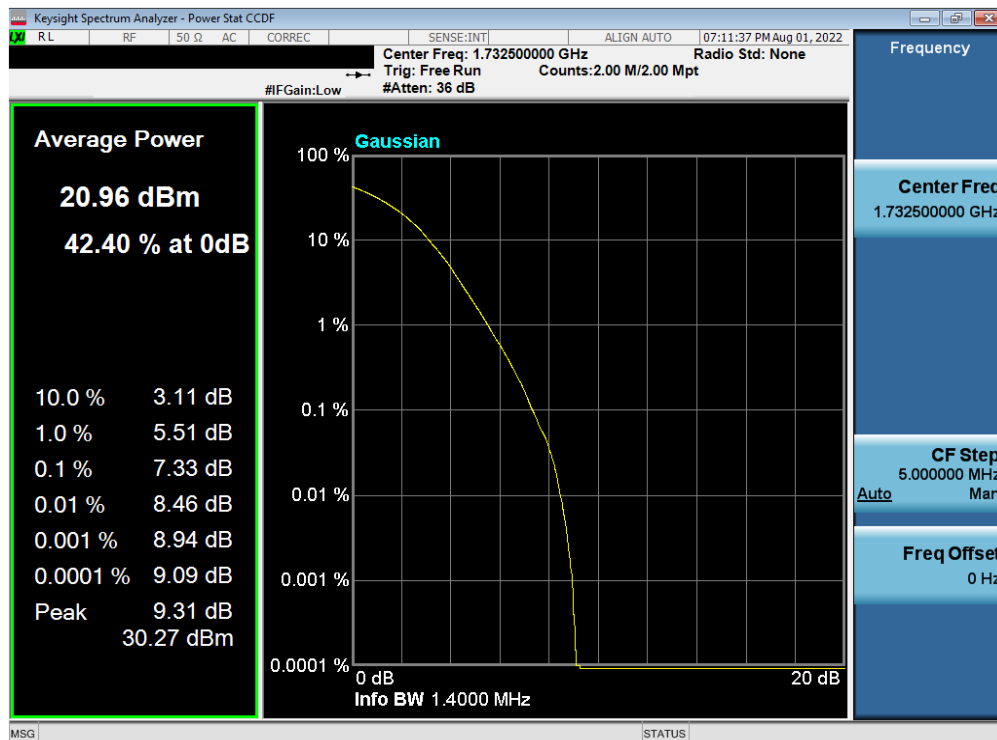


Plot 7-376. PAR Plot (LTE Band 4 - 1.4MHz 16-QAM - Full RB)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device
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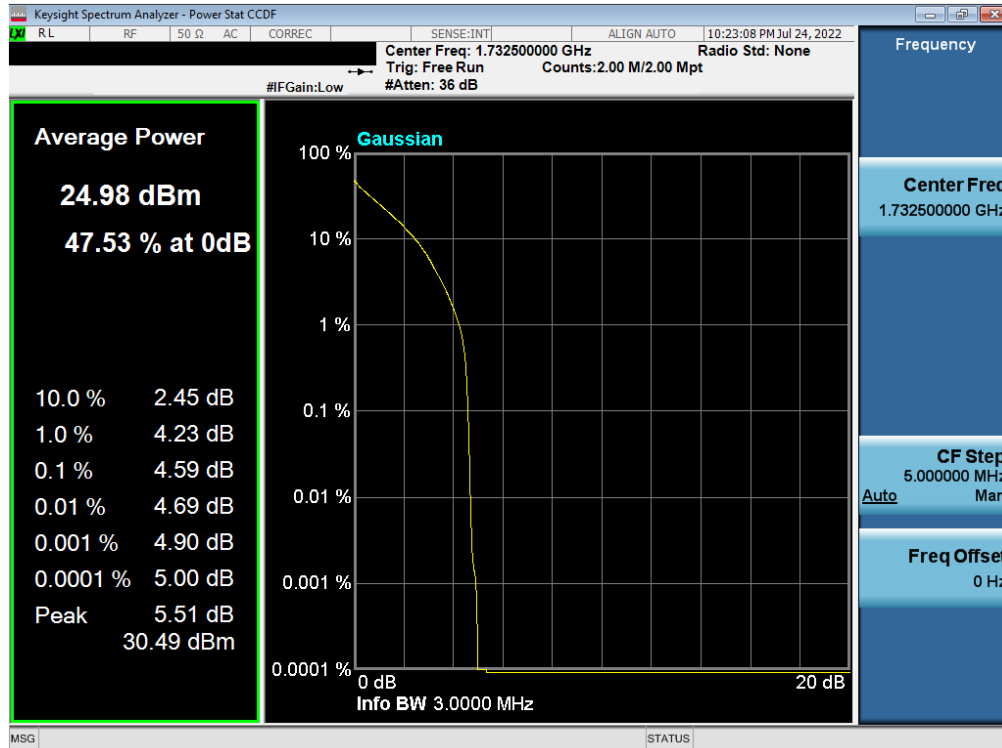


Plot 7-377. PAR Plot (LTE Band 4 - 1.4MHz 64-QAM - Full RB)

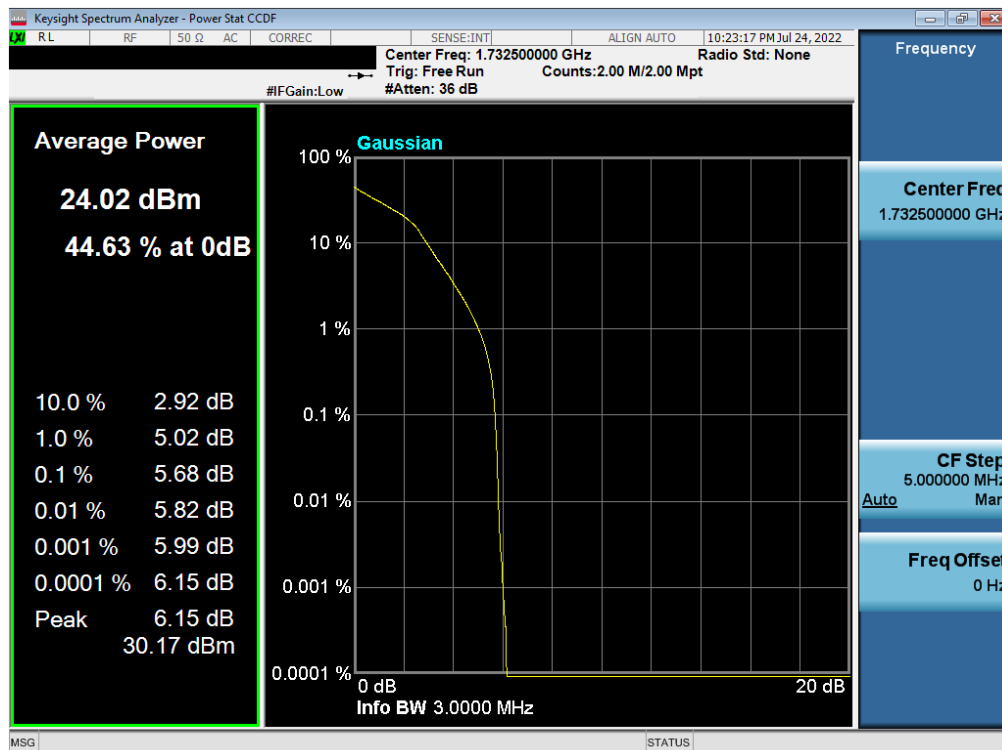


Plot 7-378. PAR Plot (LTE Band 4 - 1.4MHz 256-QAM - Full RB)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 217 of 334

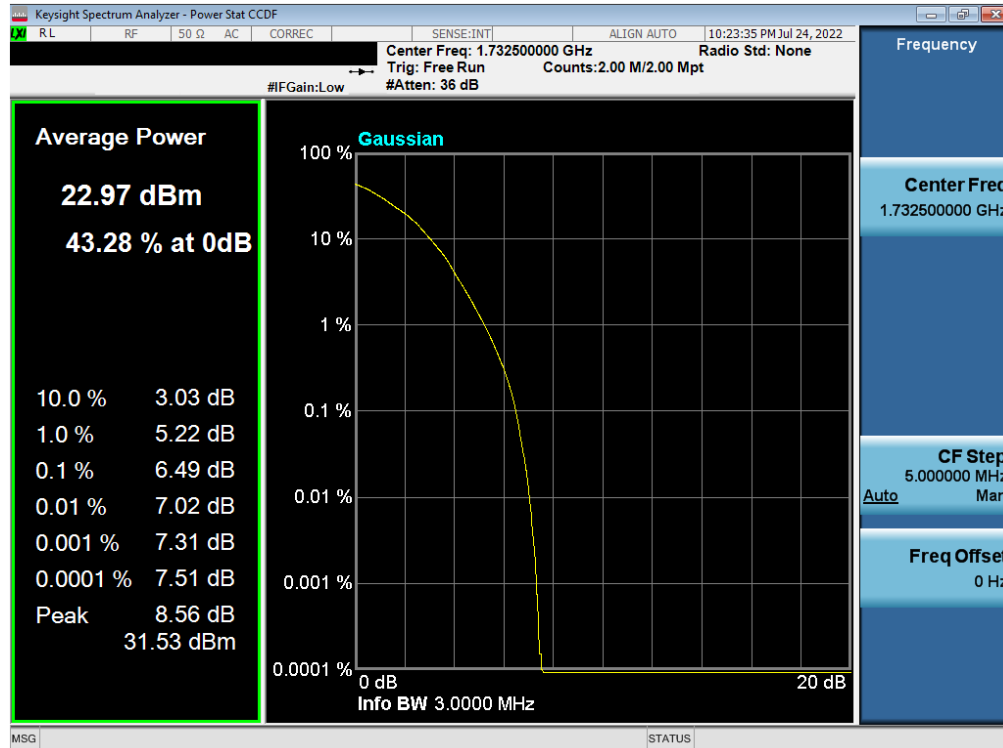


Plot 7-379. PAR Plot (LTE Band 4 - 3MHz QPSK - Full RB)

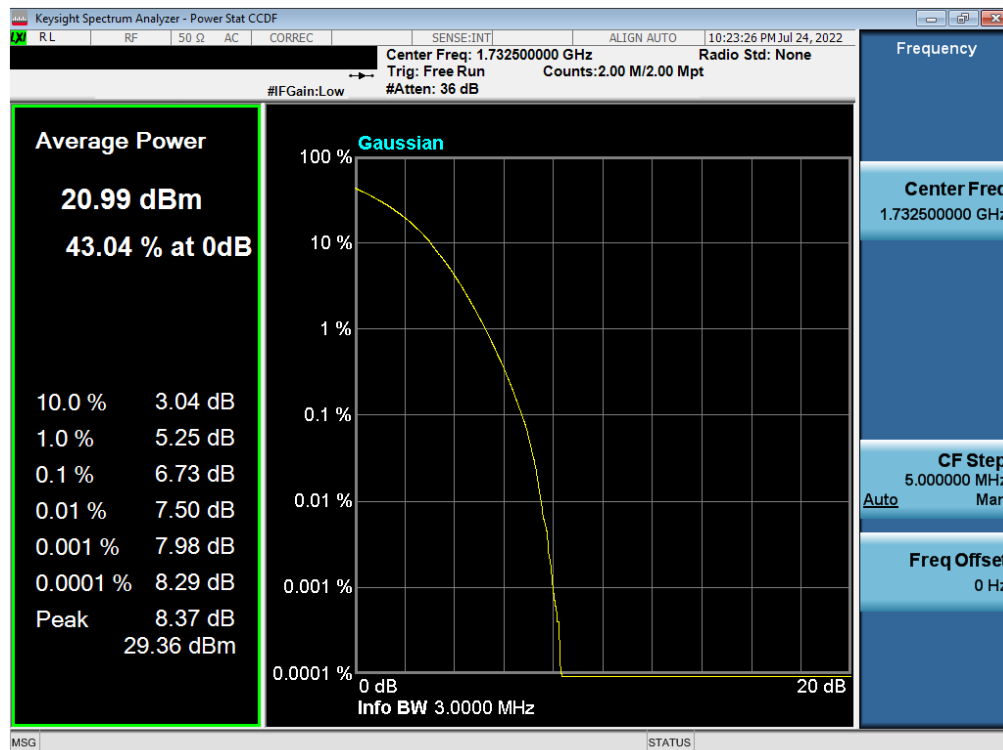


Plot 7-380. PAR Plot (LTE Band 4 - 3MHz 16-QAM - Full RB)

FCC ID: BCGA2764	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 218 of 334

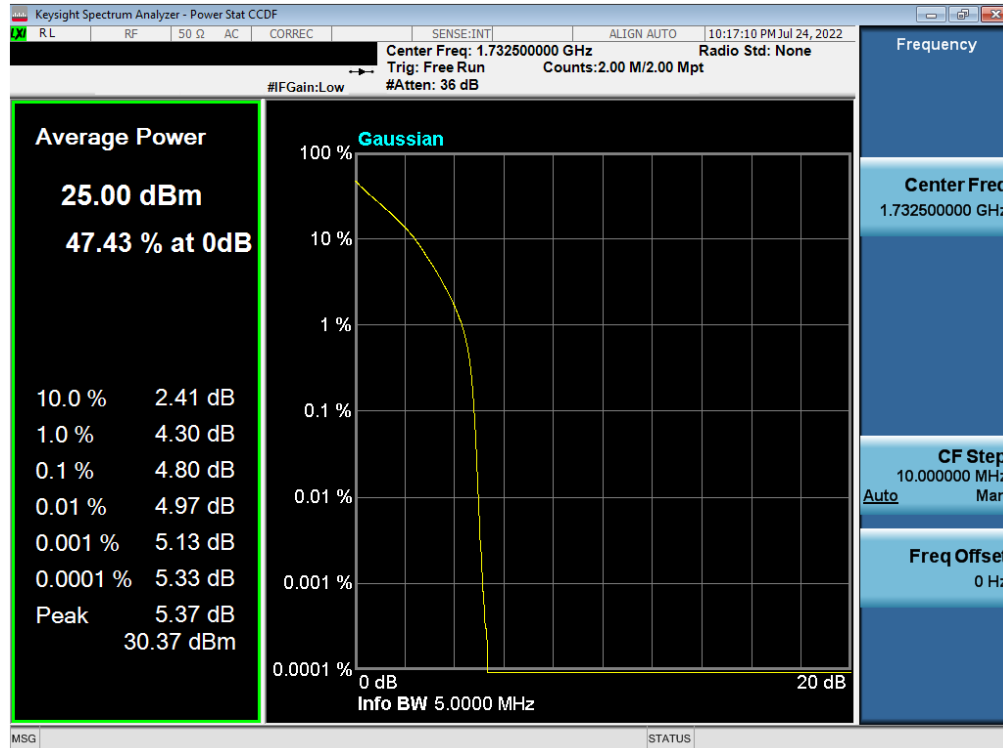


Plot 7-381. PAR Plot (LTE Band 4 - 3MHz 64-QAM - Full RB)

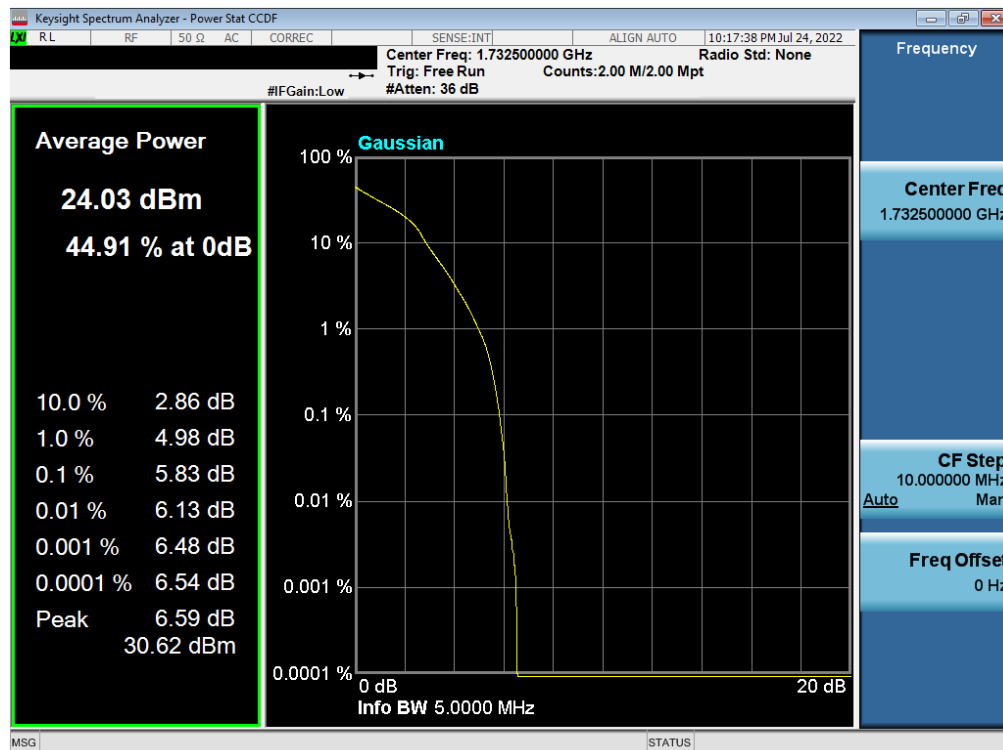


Plot 7-382. PAR Plot (LTE Band 4 - 3MHz 256-QAM - Full RB)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 219 of 334

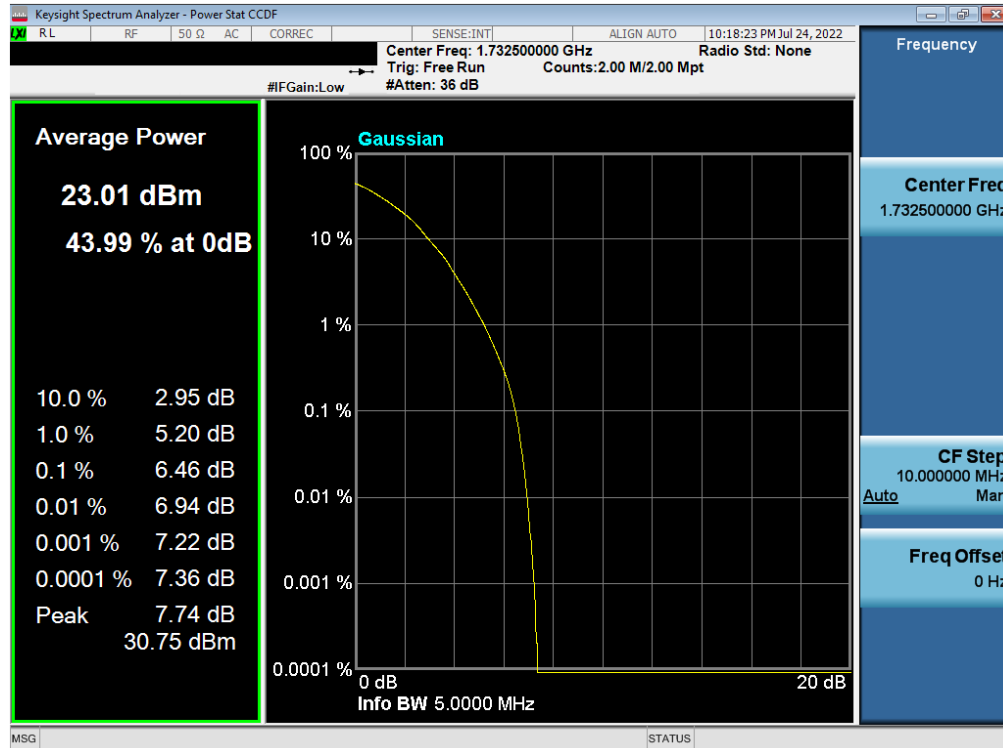


Plot 7-383. PAR Plot (LTE Band 4 - 5MHz QPSK - Full RB)

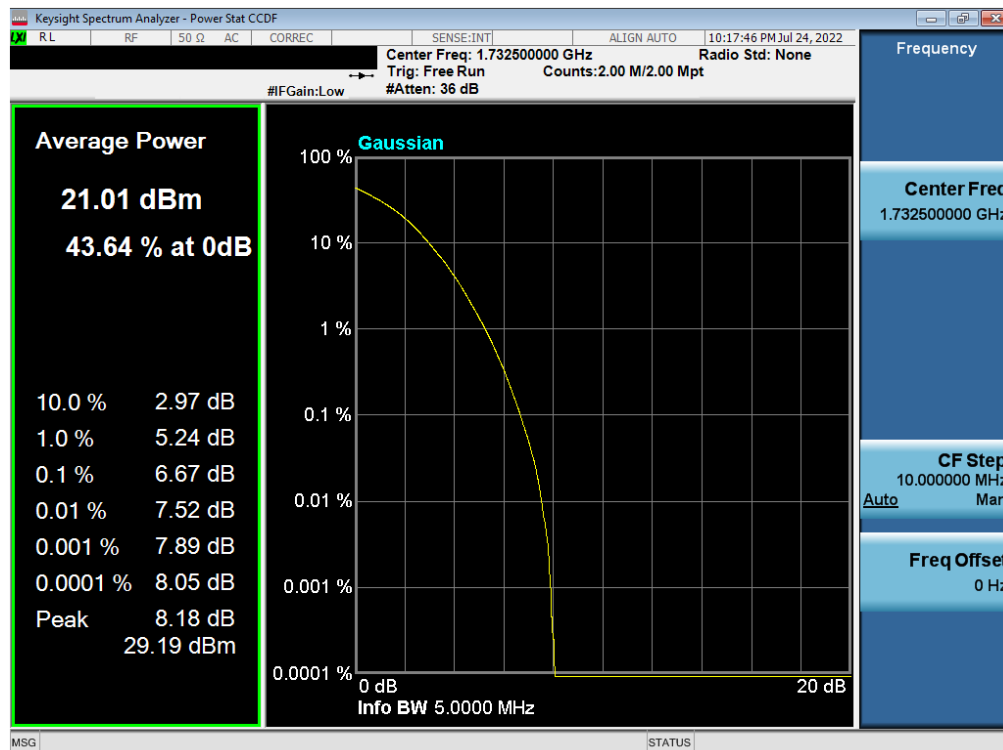


Plot 7-384. PAR Plot (LTE Band 4 - 5MHz 16-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 220 of 334

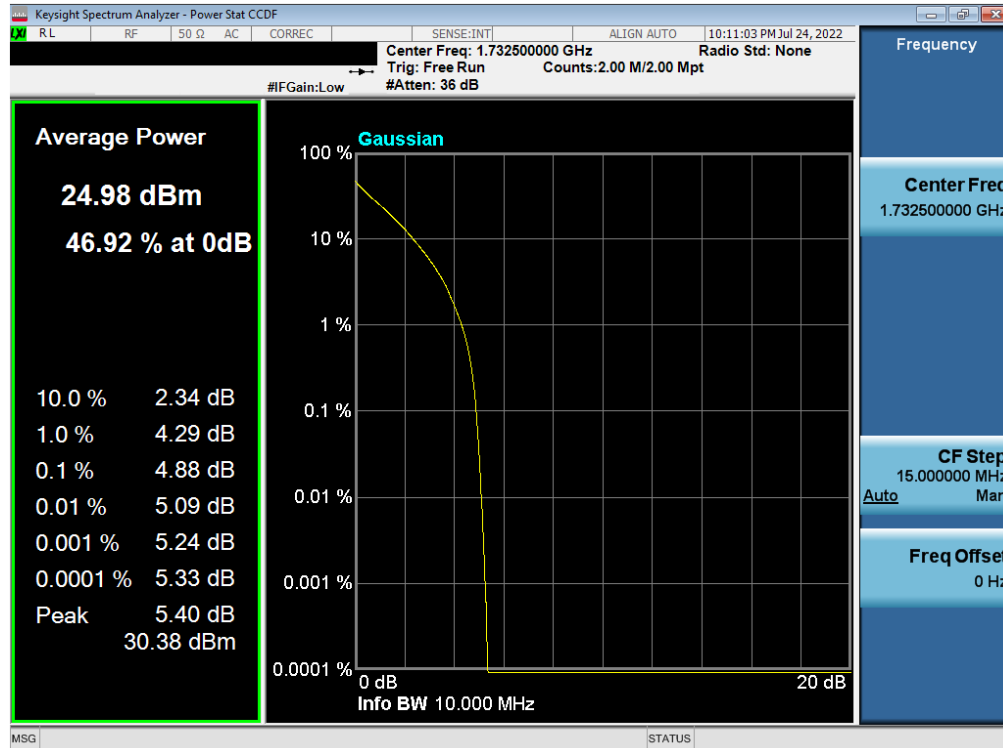


Plot 7-385. PAR Plot (LTE Band 4 - 5MHz 64-QAM - Full RB)

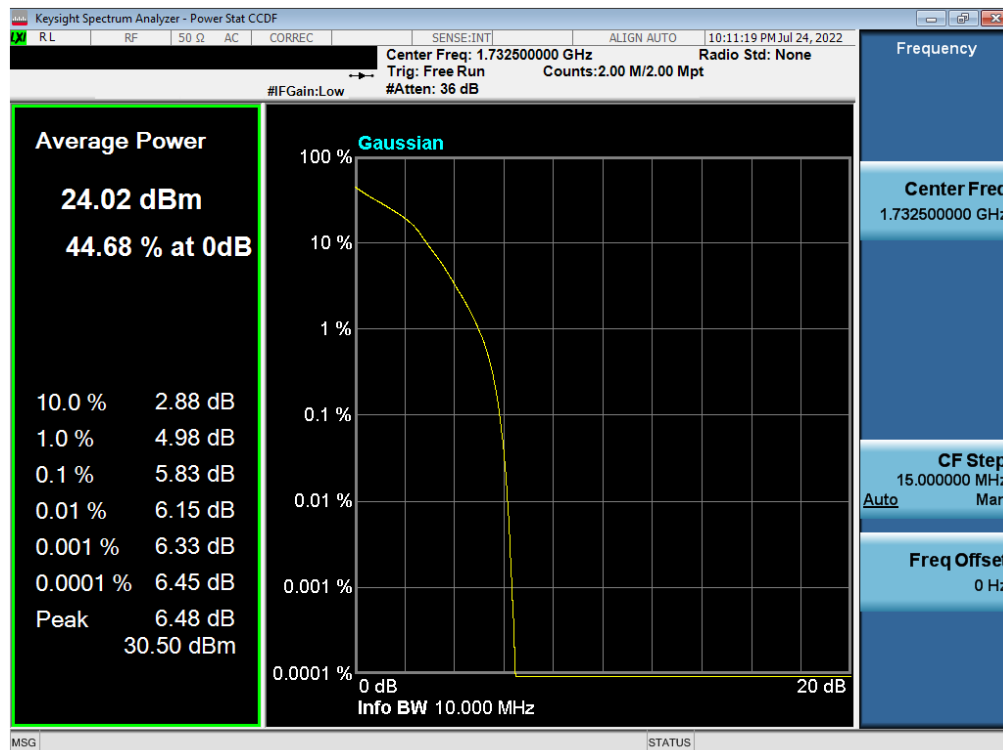


Plot 7-386. PAR Plot (LTE Band 4 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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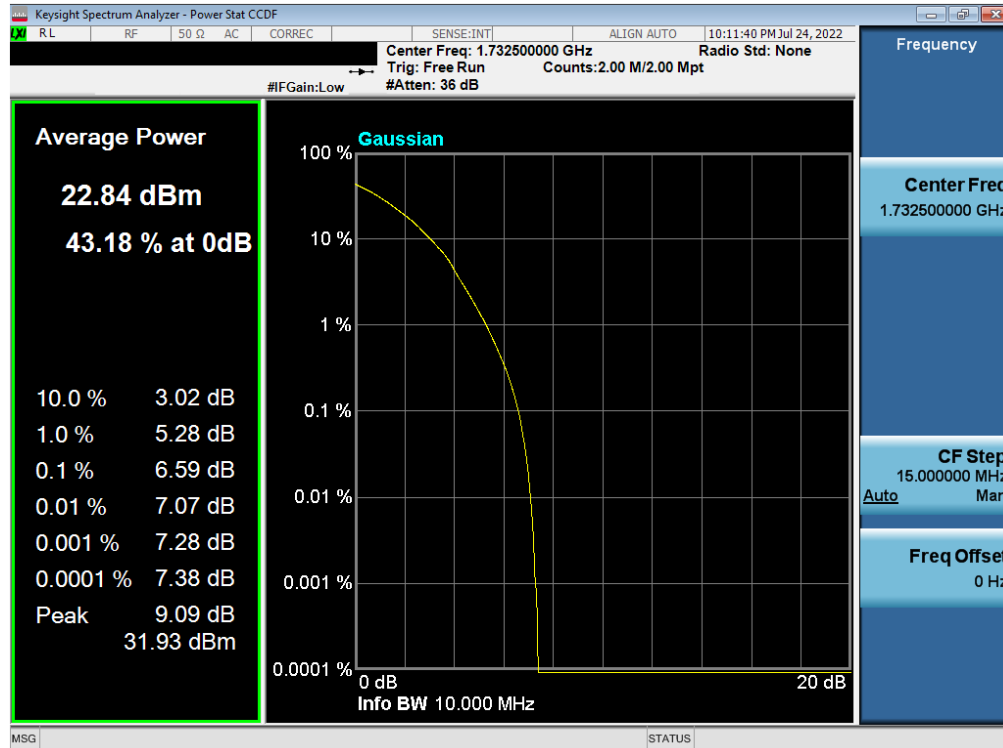


Plot 7-387. PAR Plot (LTE Band 4 - 10MHz QPSK - Full RB)

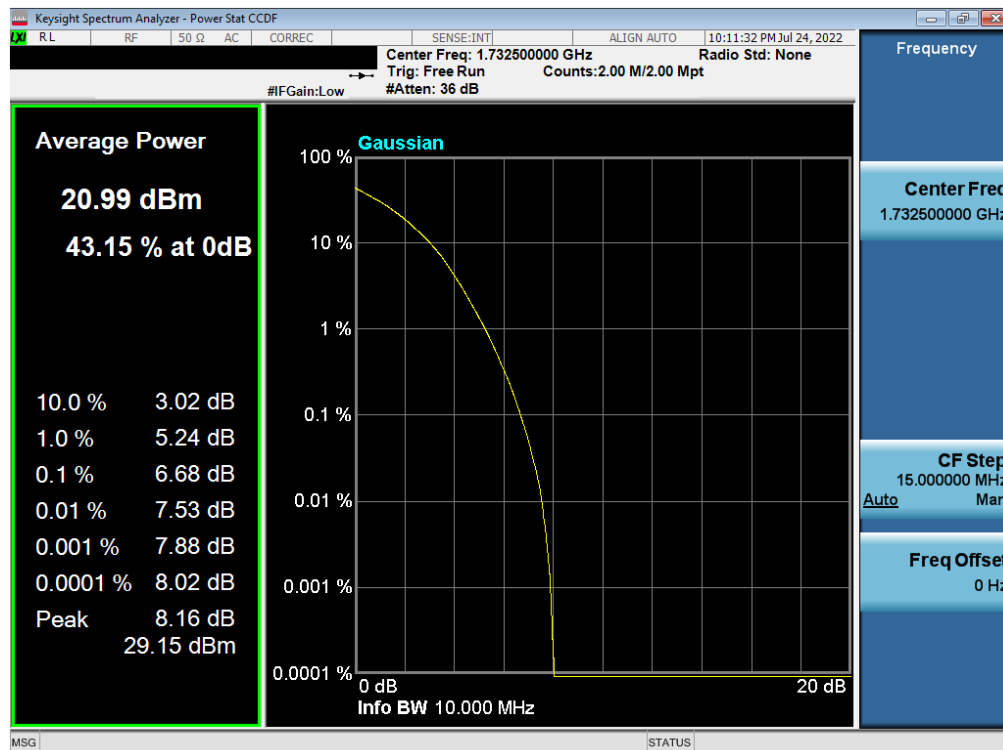


Plot 7-388. PAR Plot (LTE Band 4 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2764	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 222 of 334

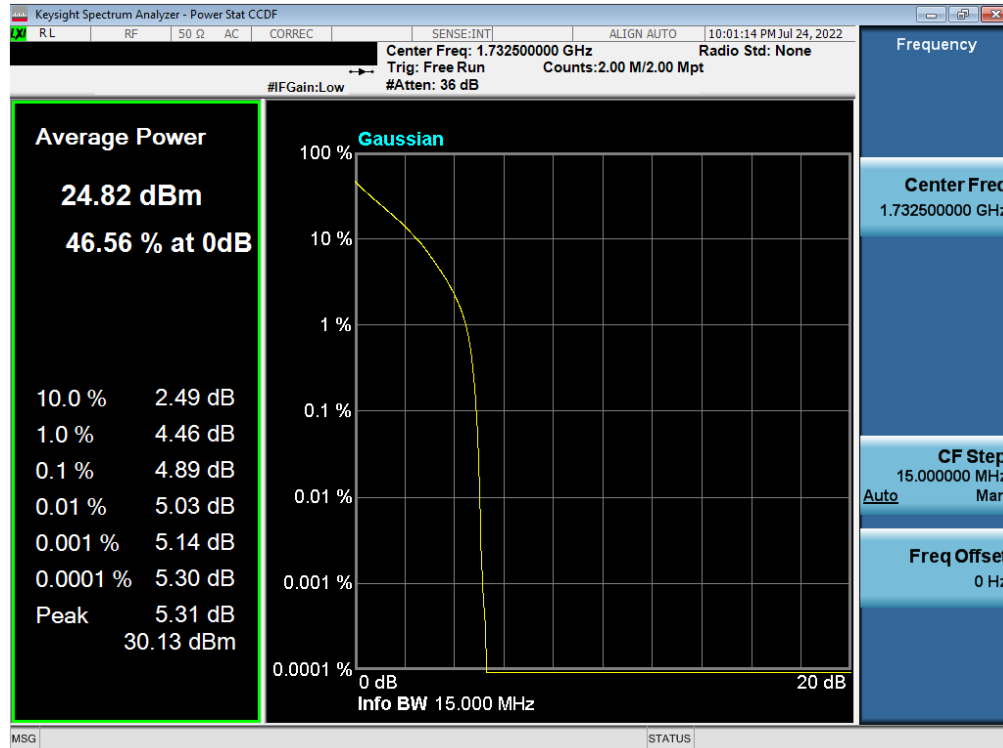


Plot 7-389. PAR Plot (LTE Band 4 - 10MHz 64-QAM - Full RB)

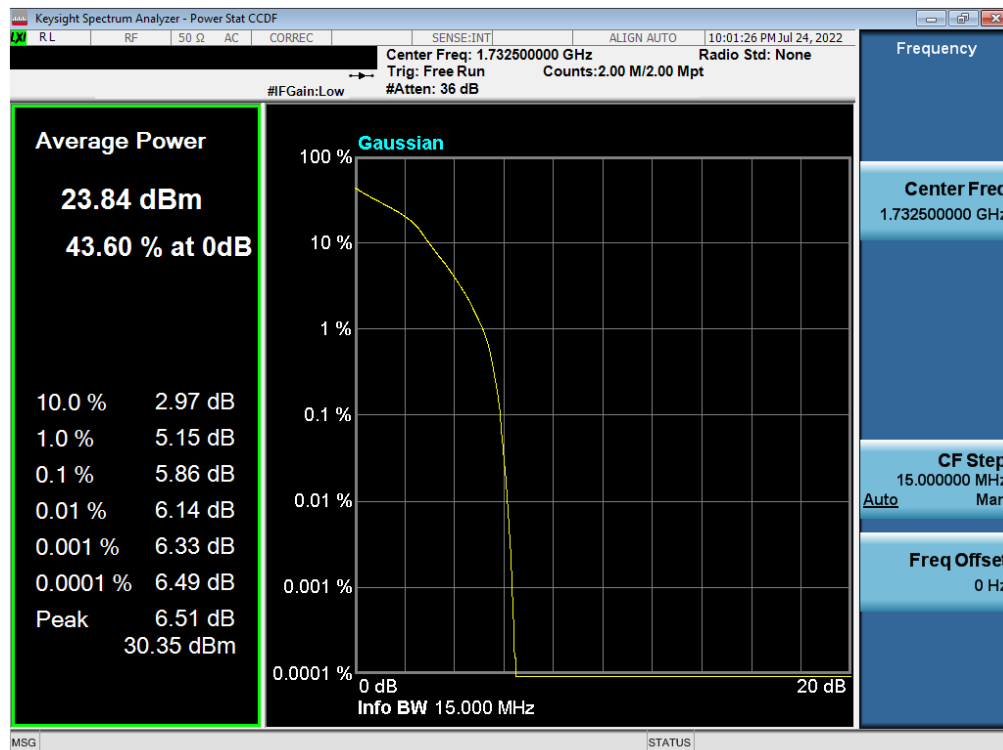


Plot 7-390. PAR Plot (LTE Band 4 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 223 of 334

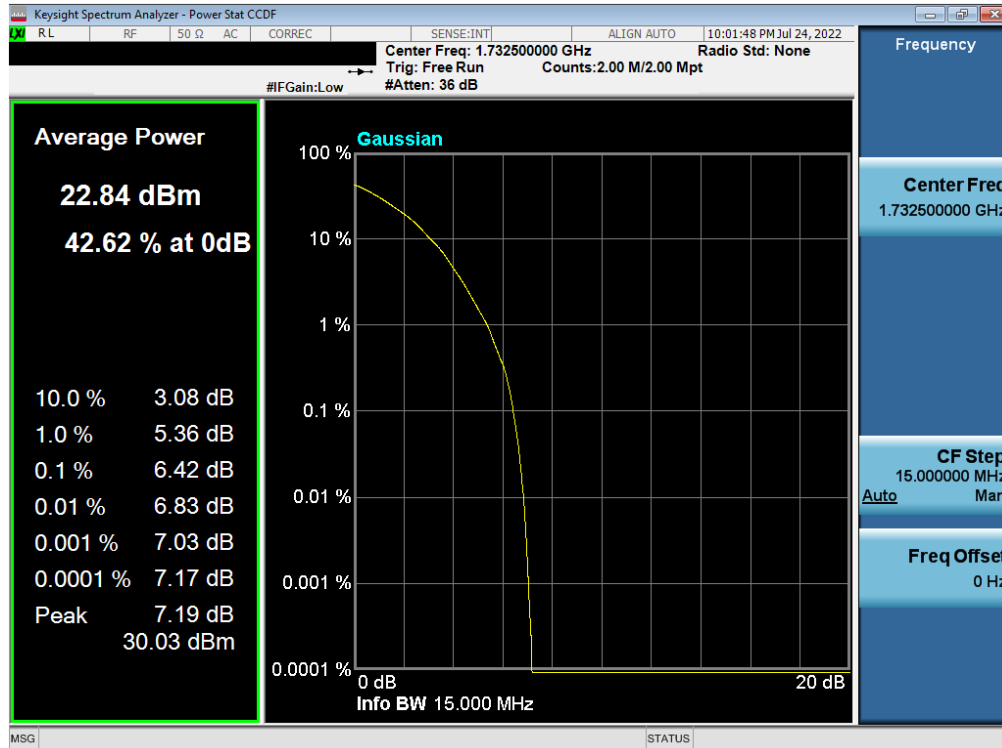


Plot 7-391. PAR Plot (LTE Band 4 - 15MHz QPSK - Full RB)

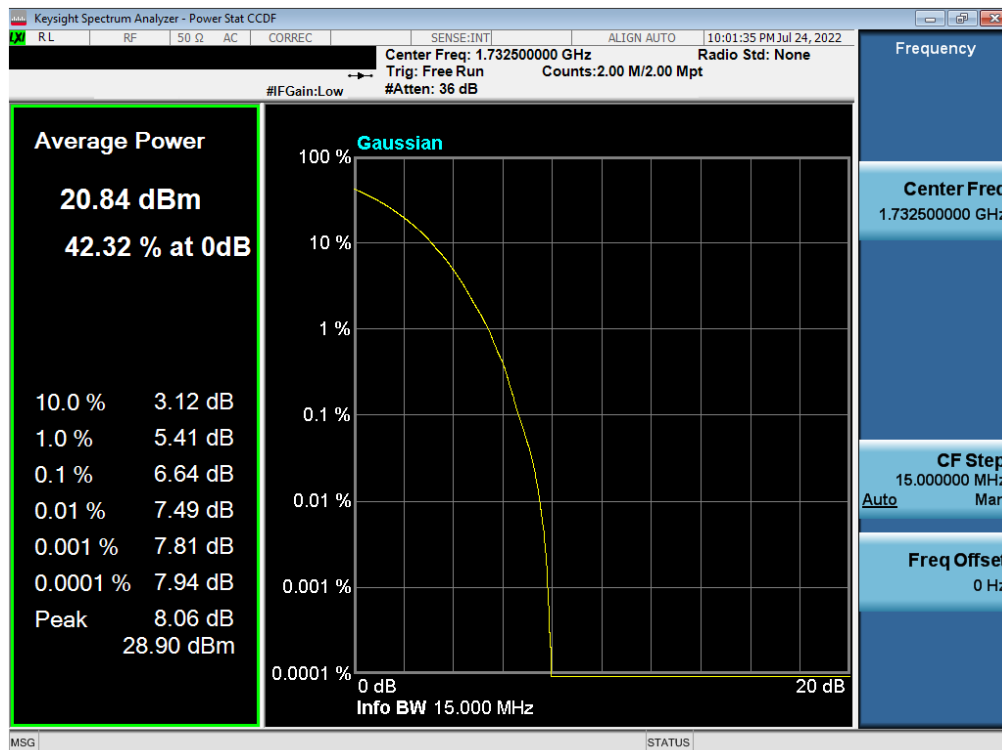


Plot 7-392. PAR Plot (LTE Band 4 - 15MHz 16-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 224 of 334

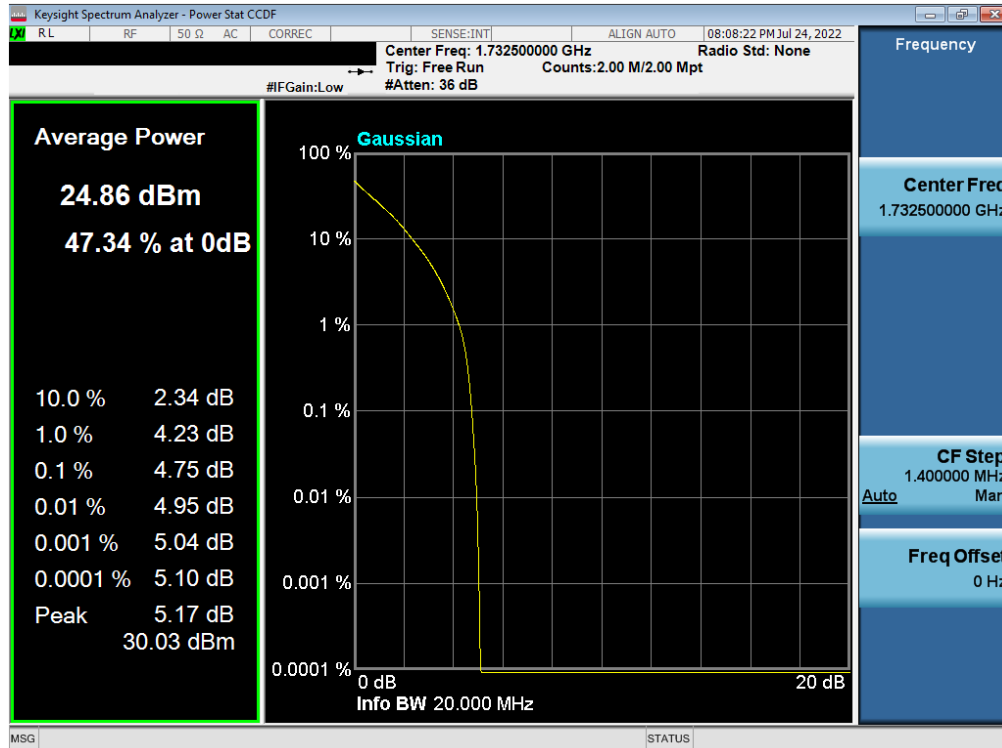


Plot 7-393. PAR Plot (LTE Band 4 - 15MHz 64-QAM - Full RB)

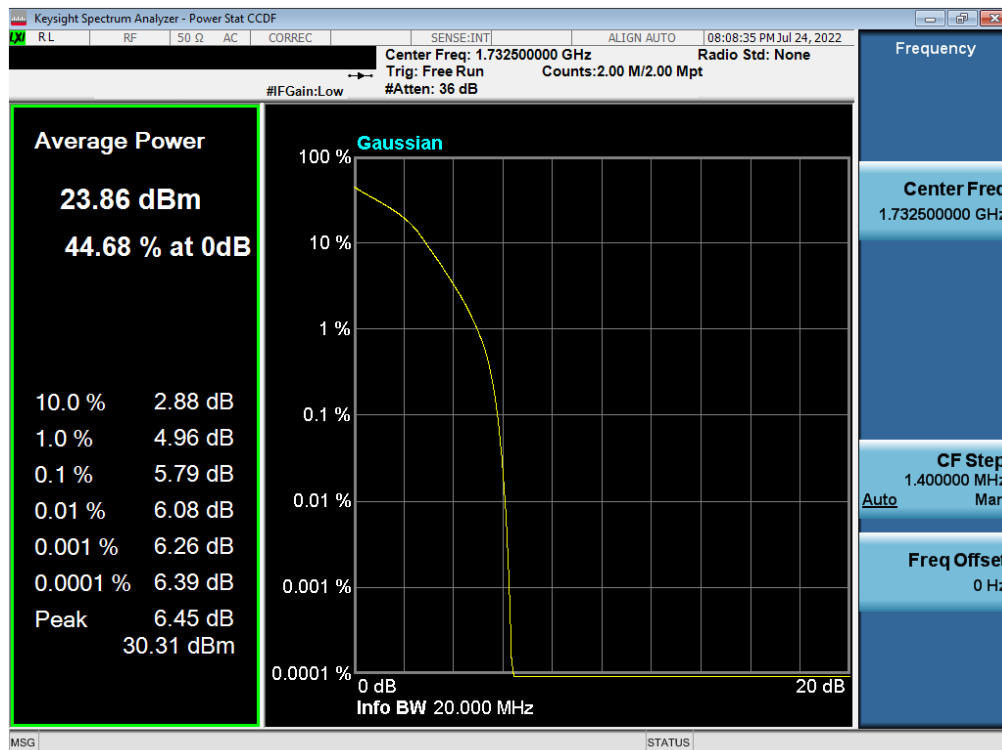


Plot 7-394. PAR Plot (LTE Band 4 - 15MHz 256-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 225 of 334

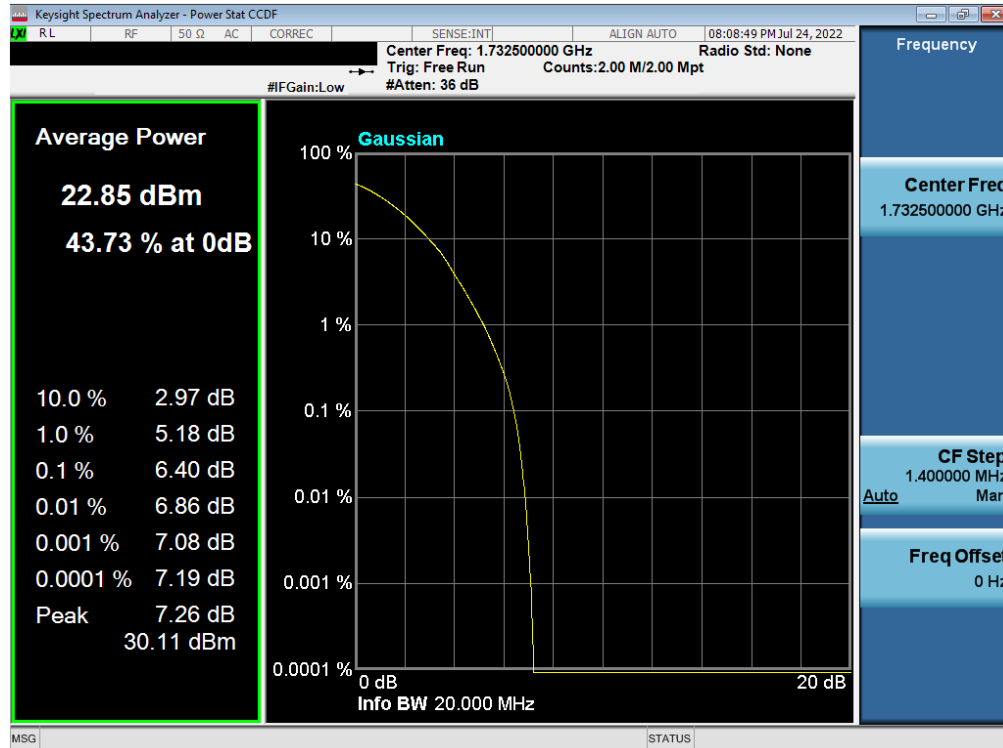


Plot 7-395. PAR Plot (LTE Band 4 - 20MHz QPSK - Full RB)

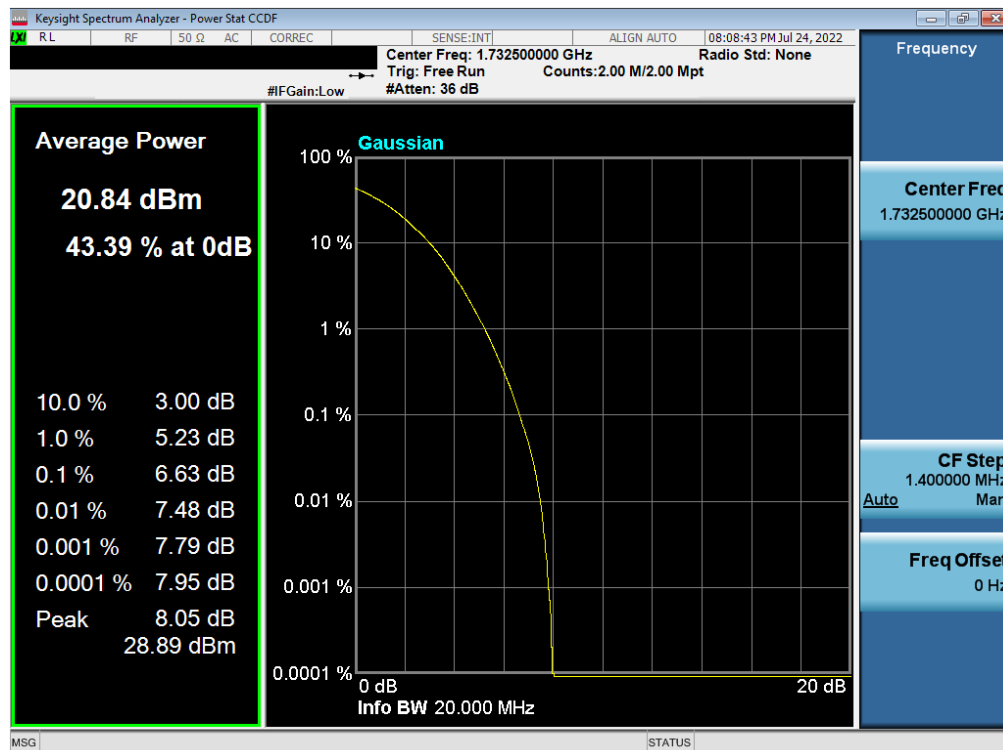


Plot 7-396. PAR Plot (LTE Band 4 - 20MHz 16-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 226 of 334



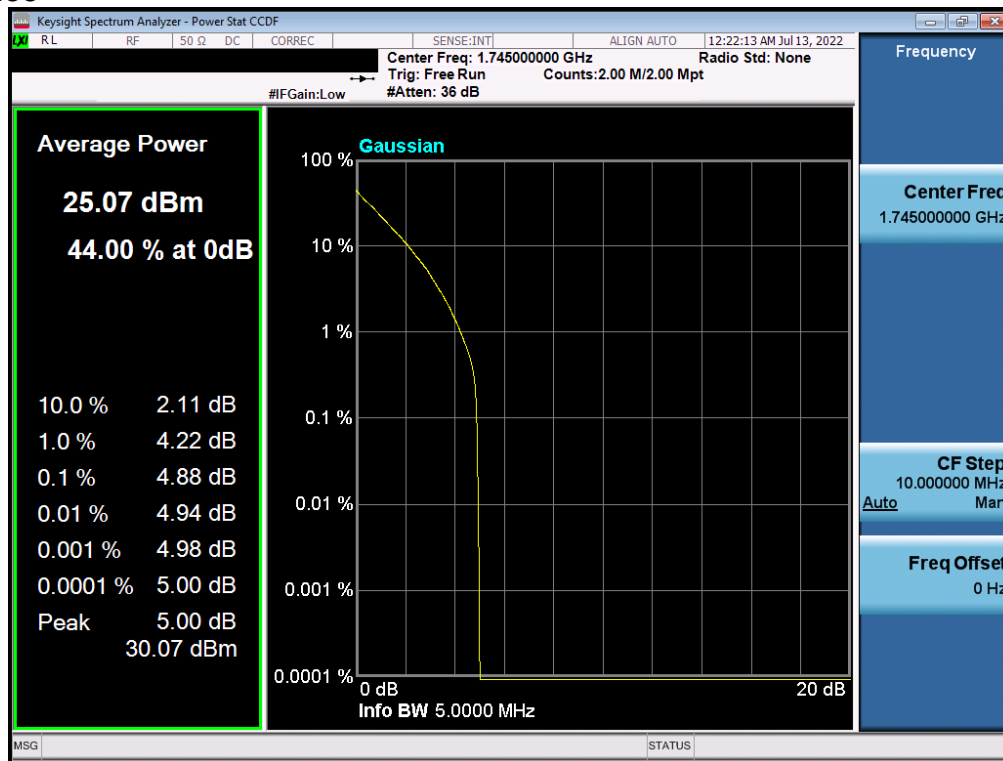
Plot 7-397. PAR Plot (LTE Band 4 - 20MHz 64-QAM - Full RB)



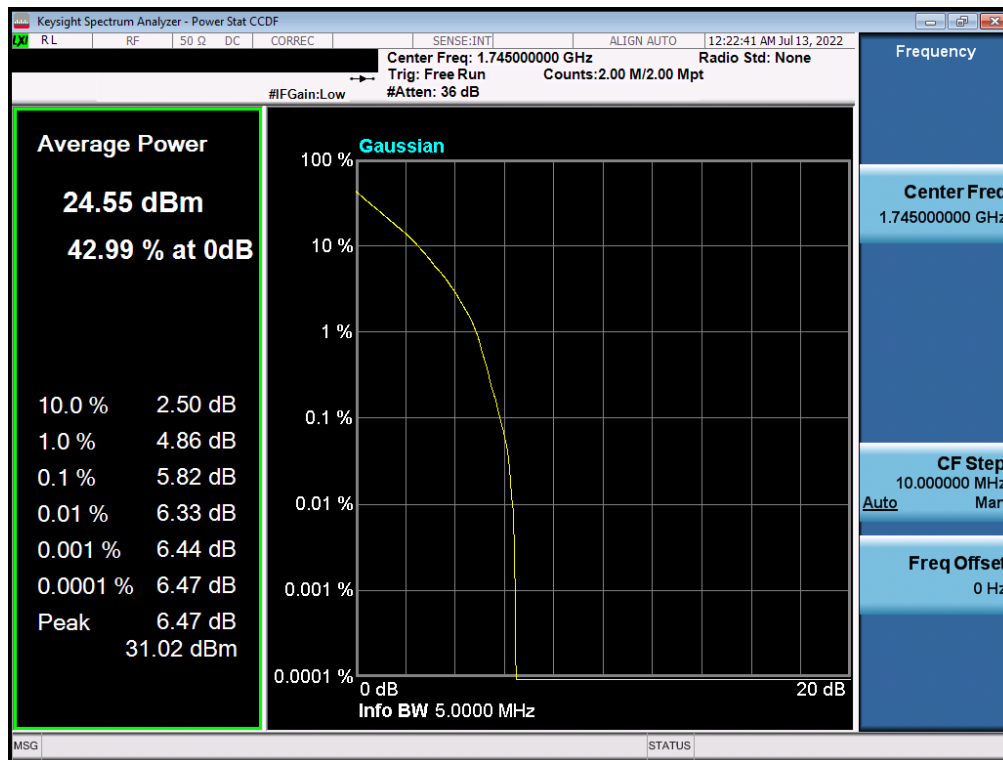
Plot 7-398. PAR Plot (LTE Band 4 - 20MHz 256-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 227 of 334

NR Band n66

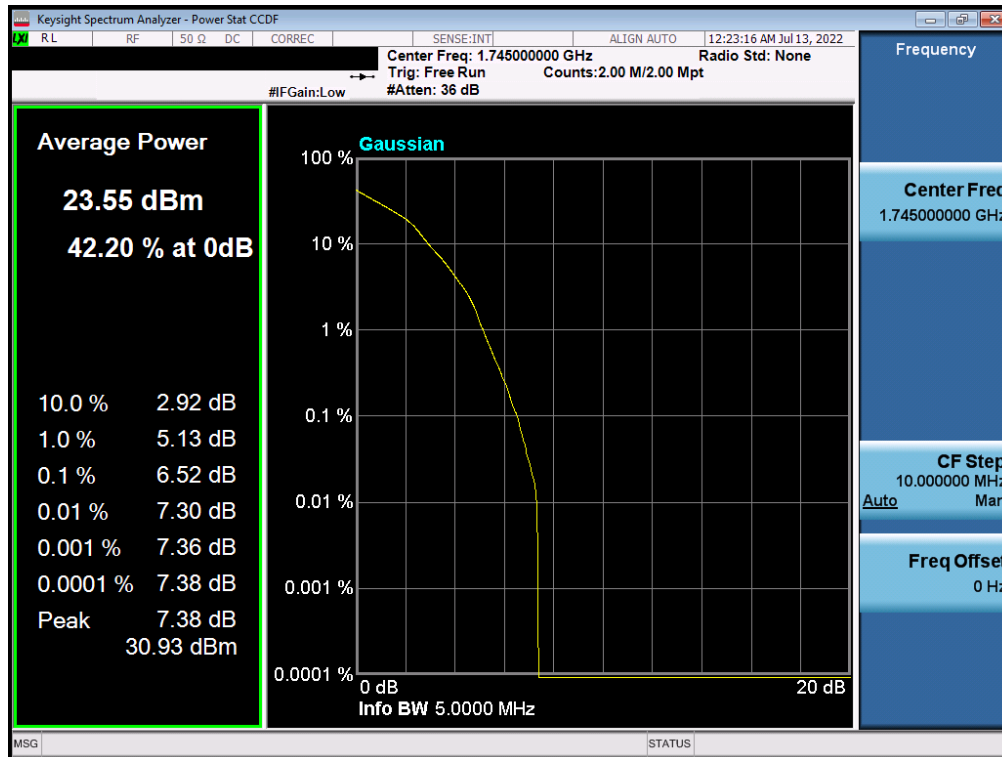


Plot 7-399. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

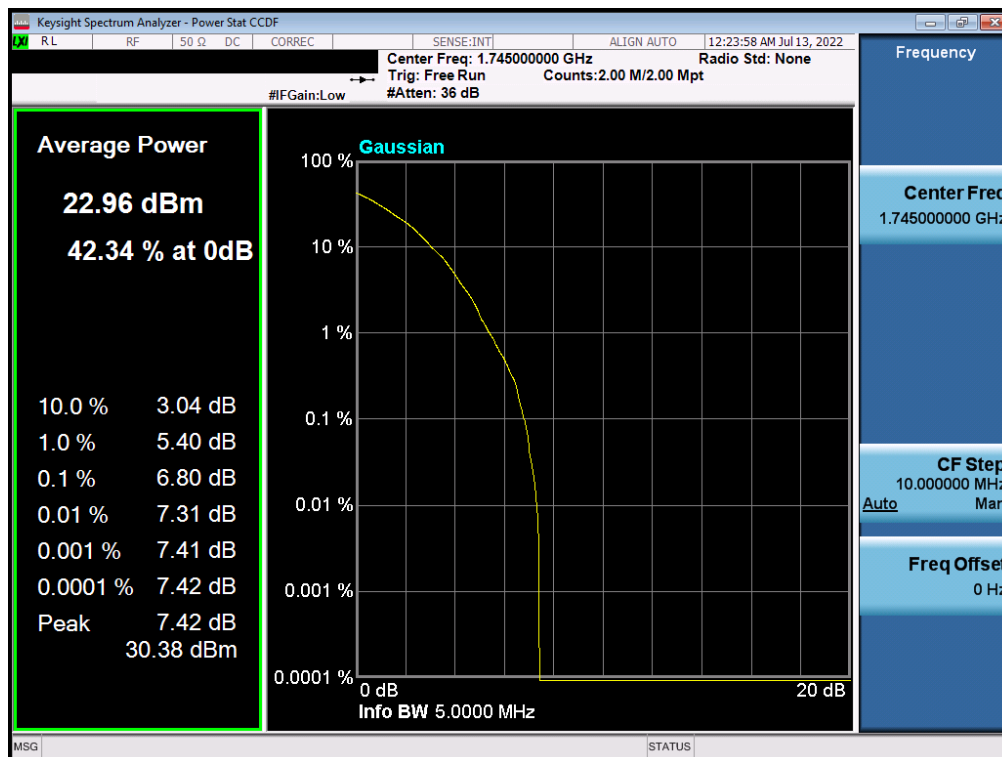


Plot 7-400. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 228 of 334

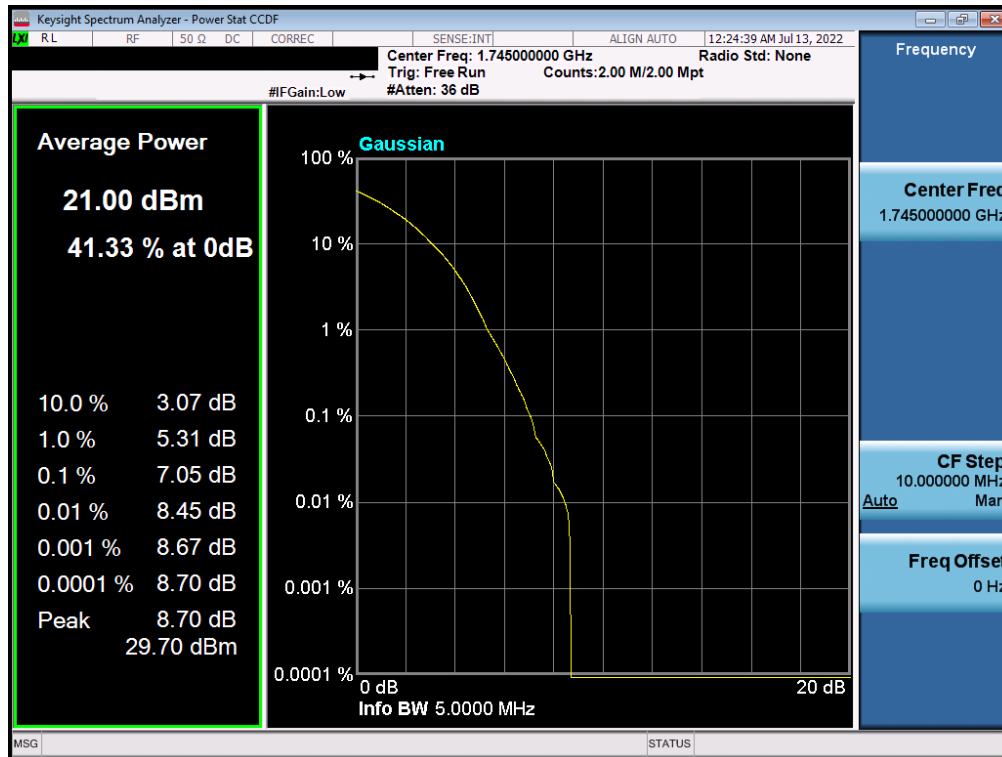


Plot 7-401. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)

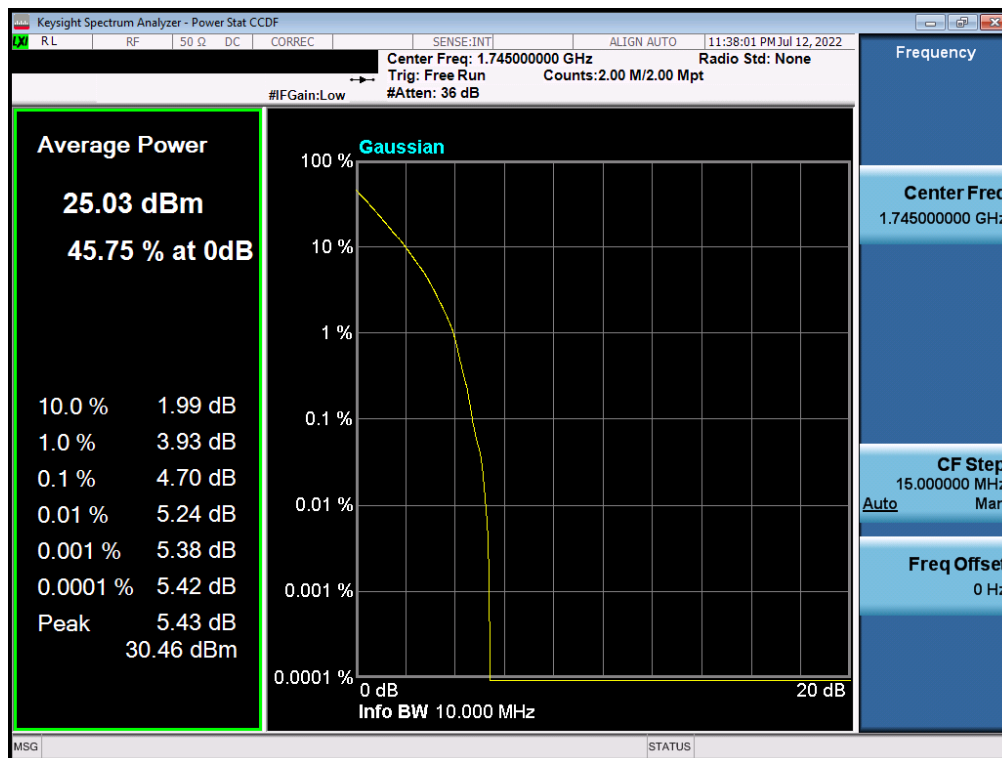


Plot 7-402. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 229 of 334

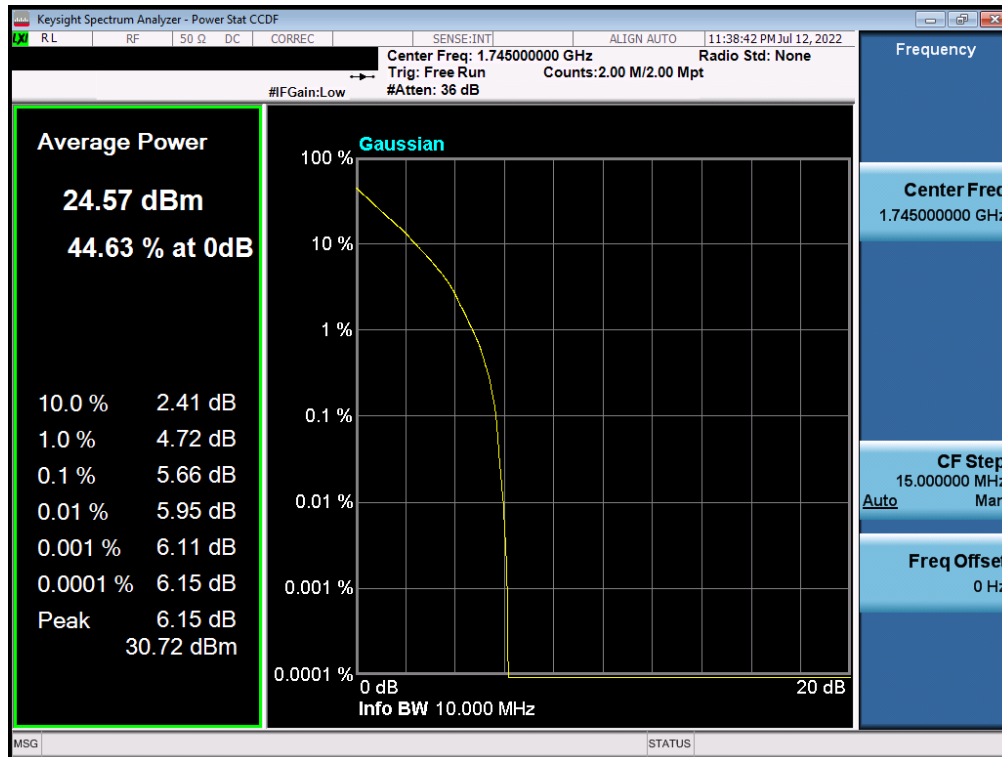


Plot 7-403. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM 256-QAM - Full RB)

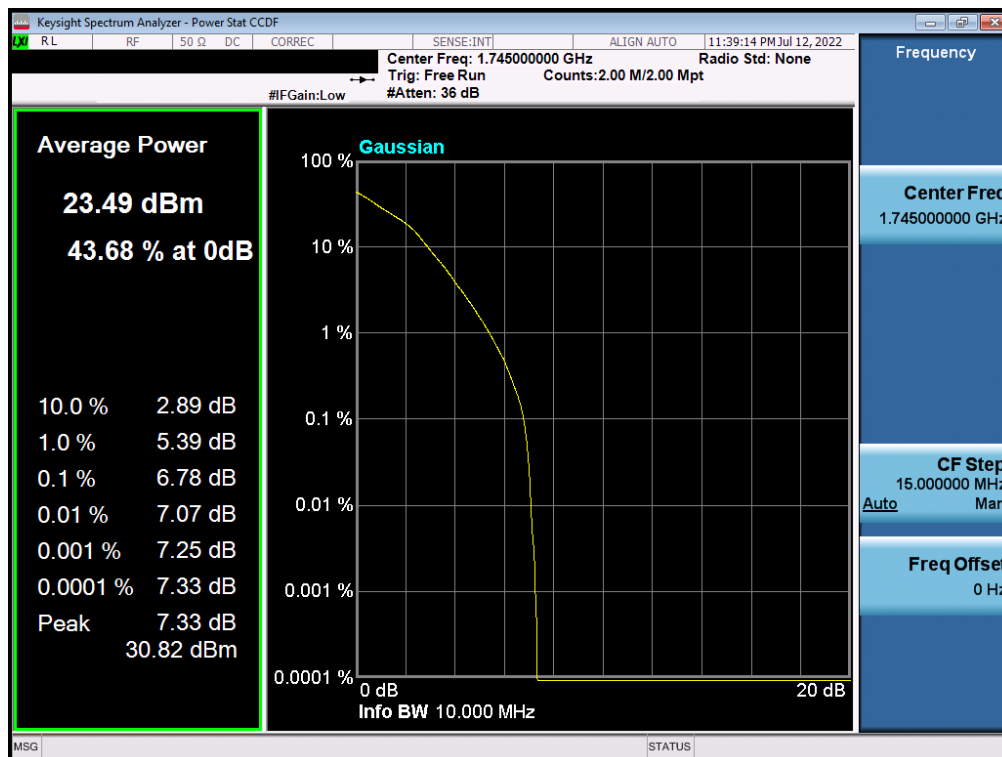


Plot 7-404. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 230 of 334

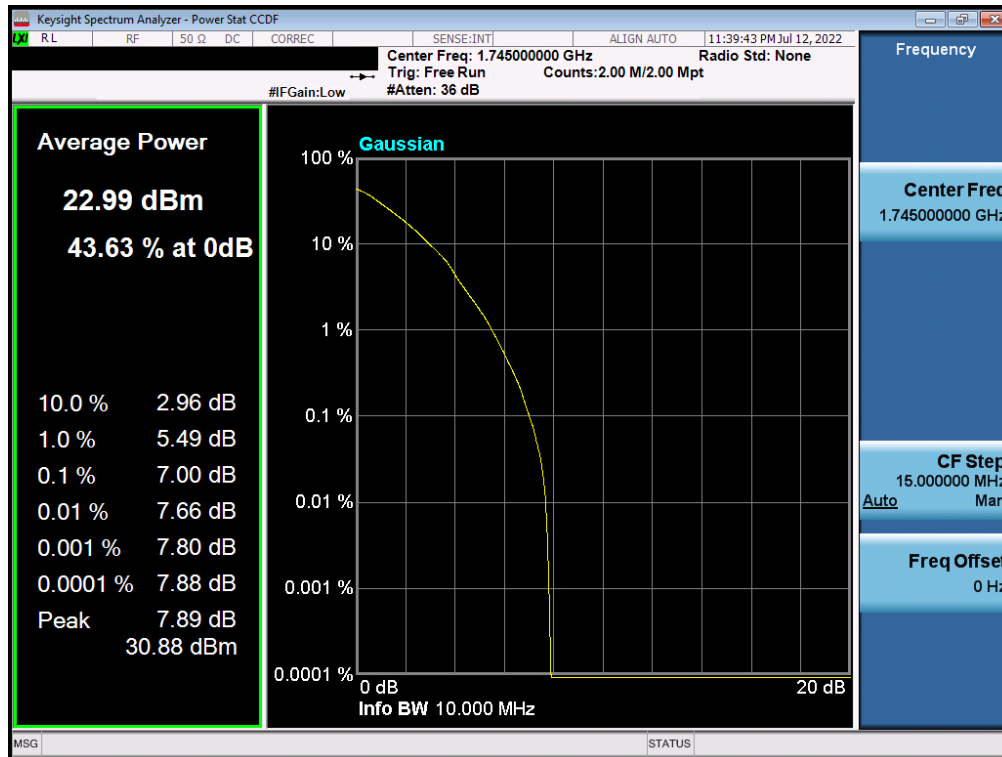


Plot 7-405. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

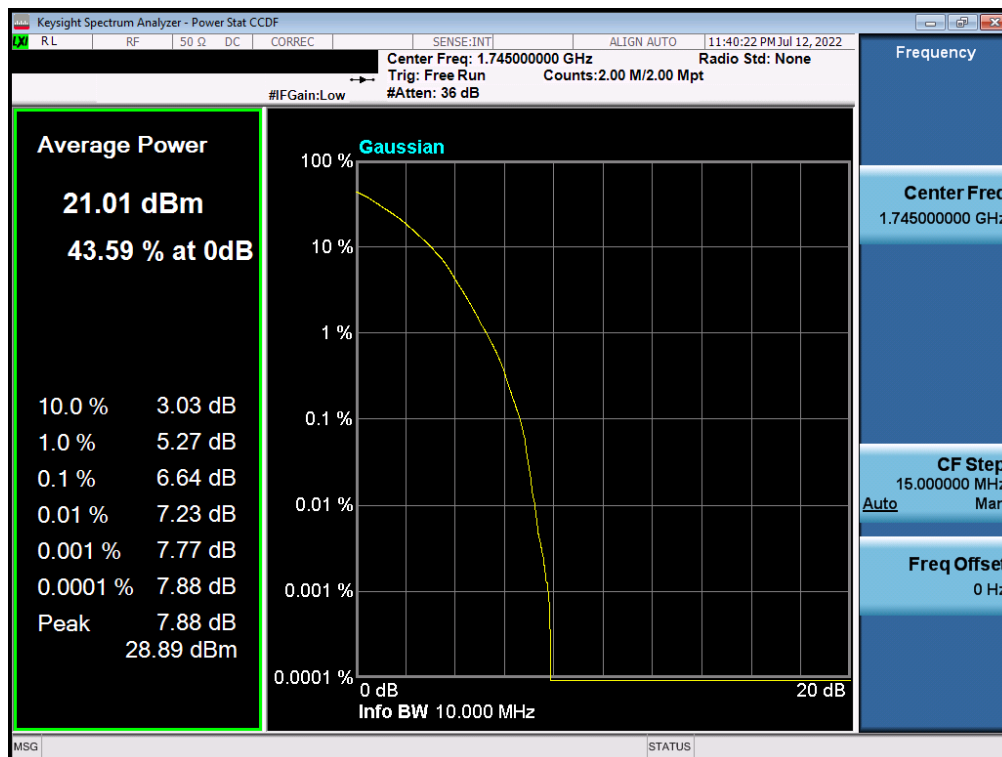


Plot 7-406. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 231 of 334

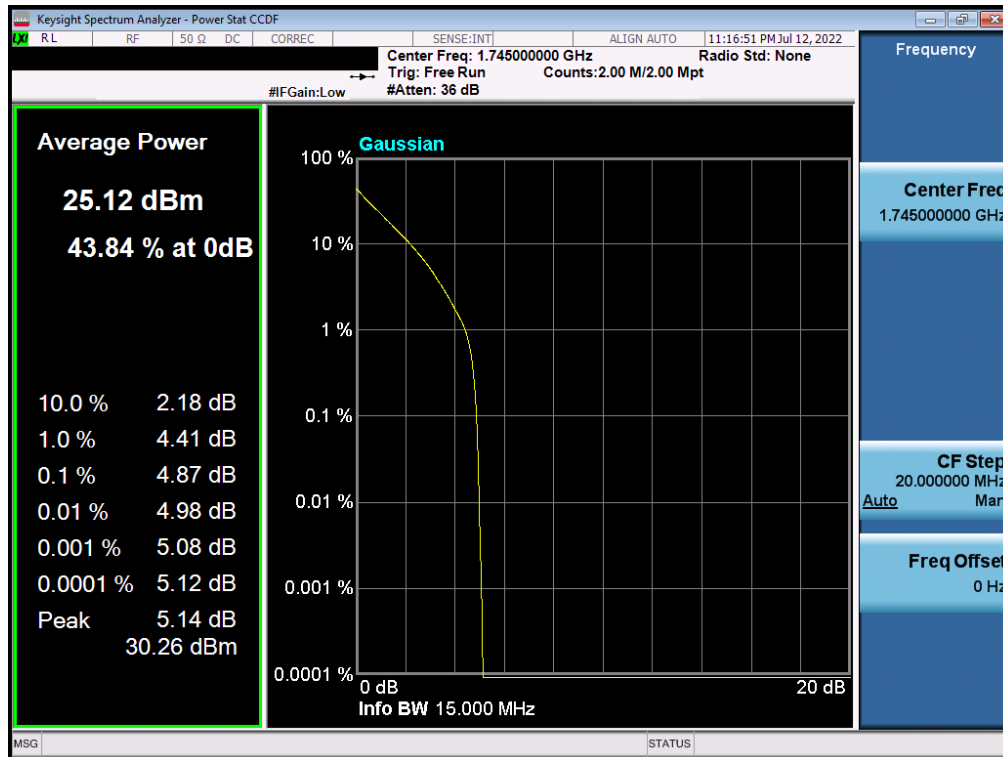


Plot 7-407. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

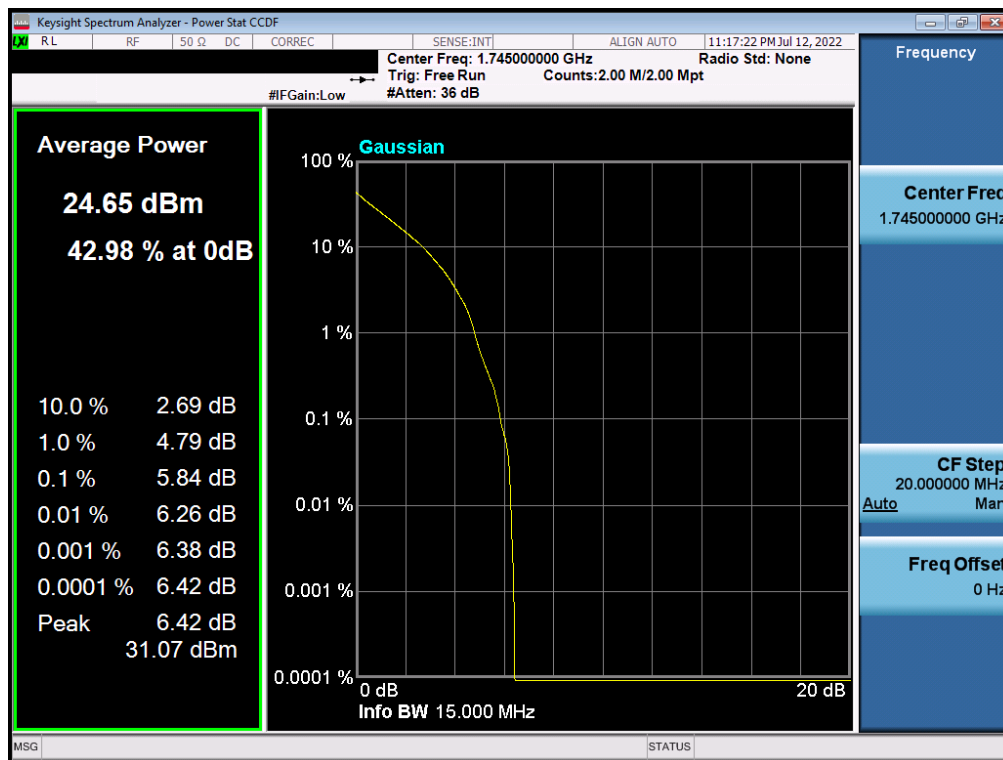


Plot 7-408. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 232 of 334

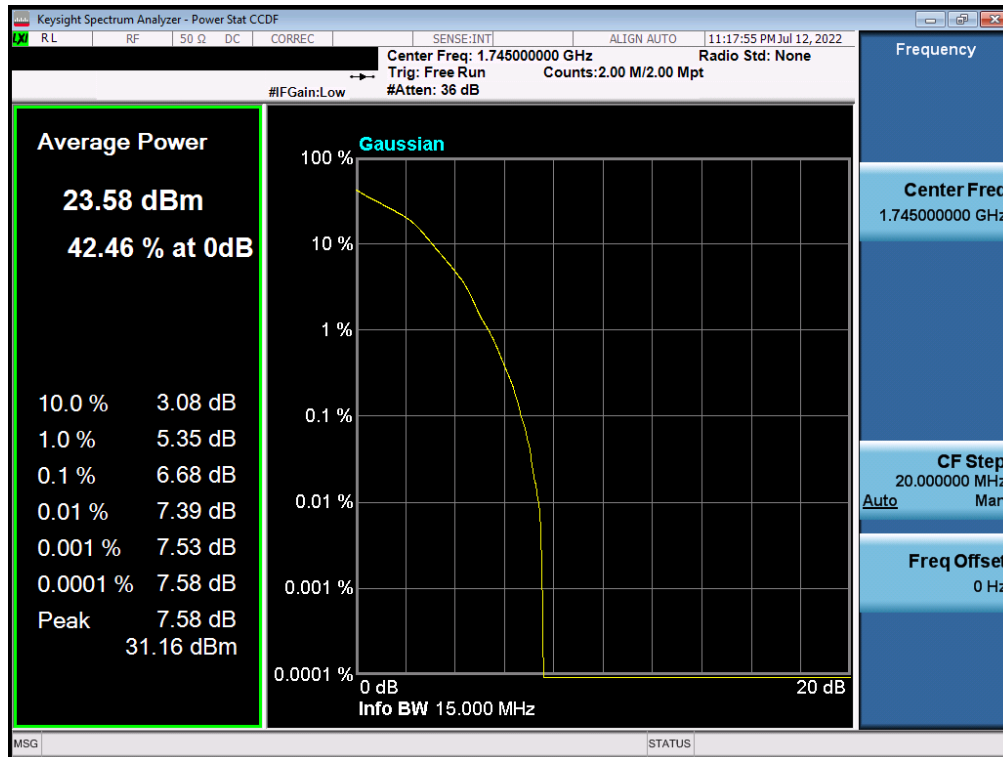


Plot 7-409. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

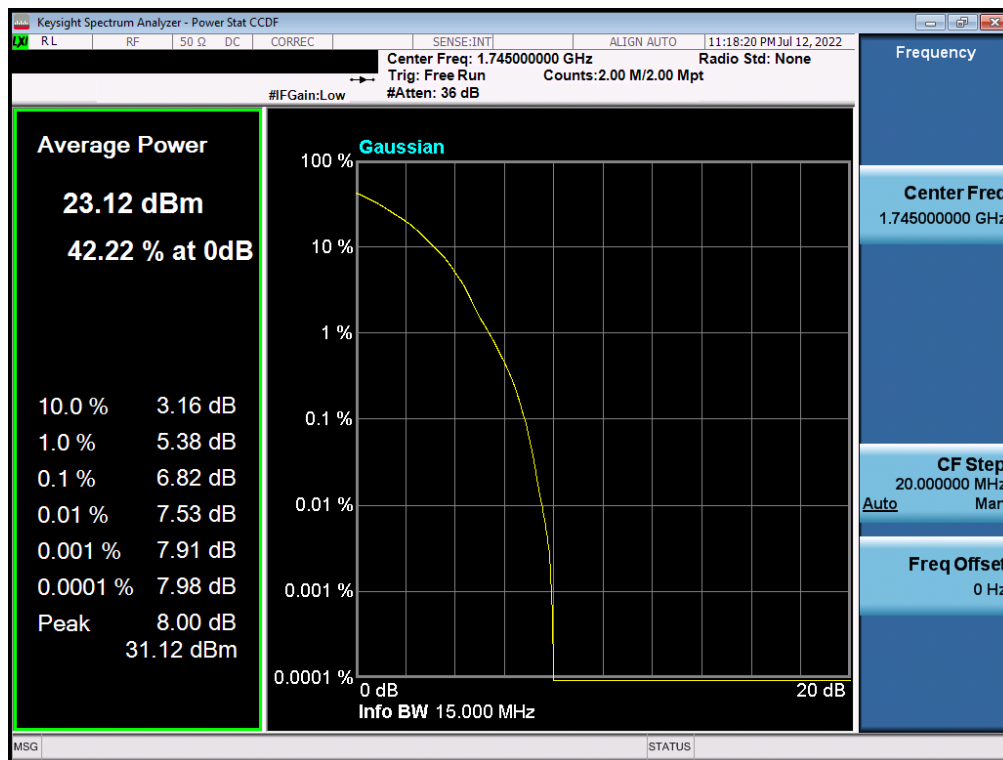


Plot 7-410. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 233 of 334

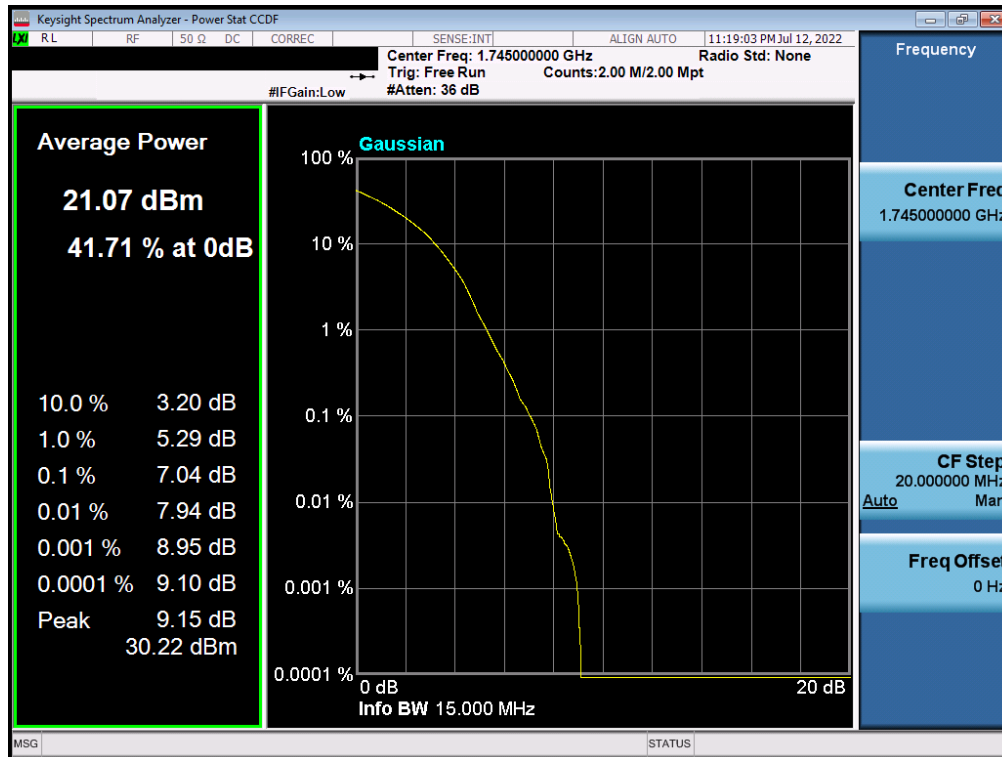


Plot 7-411. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)

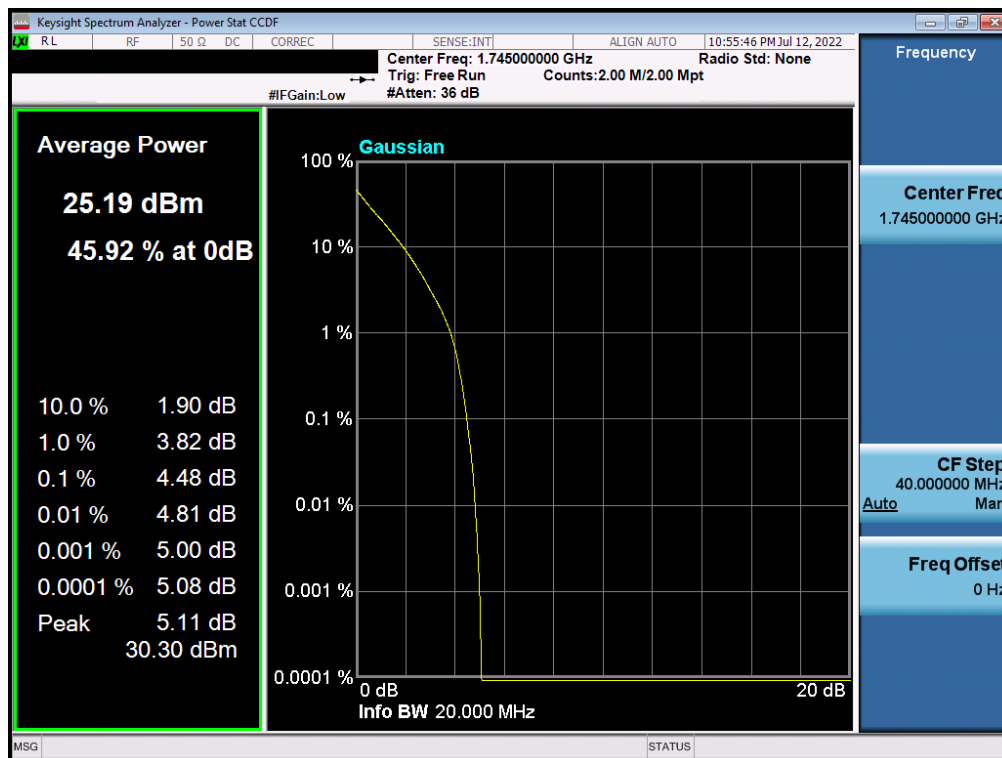


Plot 7-412. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 234 of 334

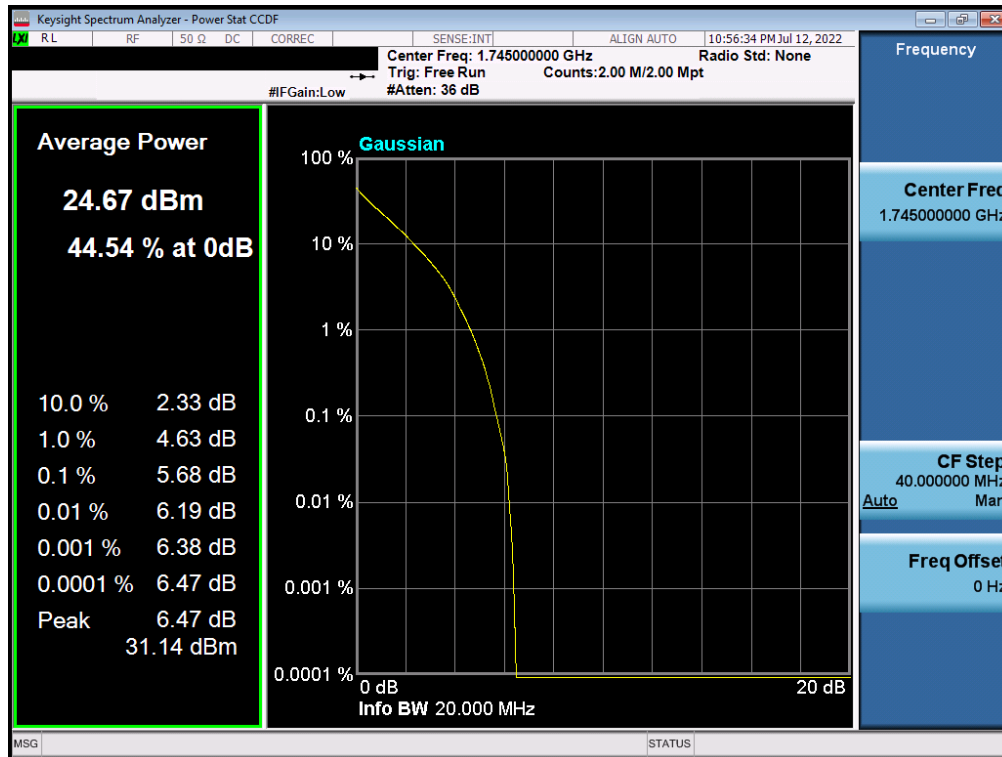


Plot 7-413. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM 256-QAM - Full RB)

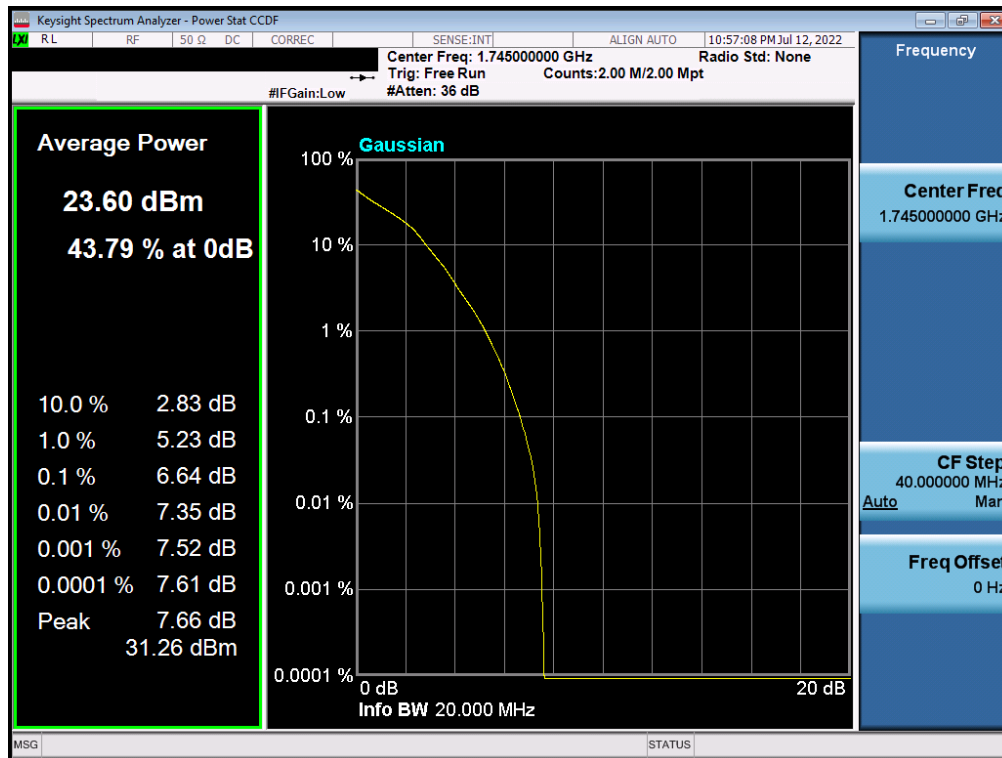


Plot 7-414. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 235 of 334

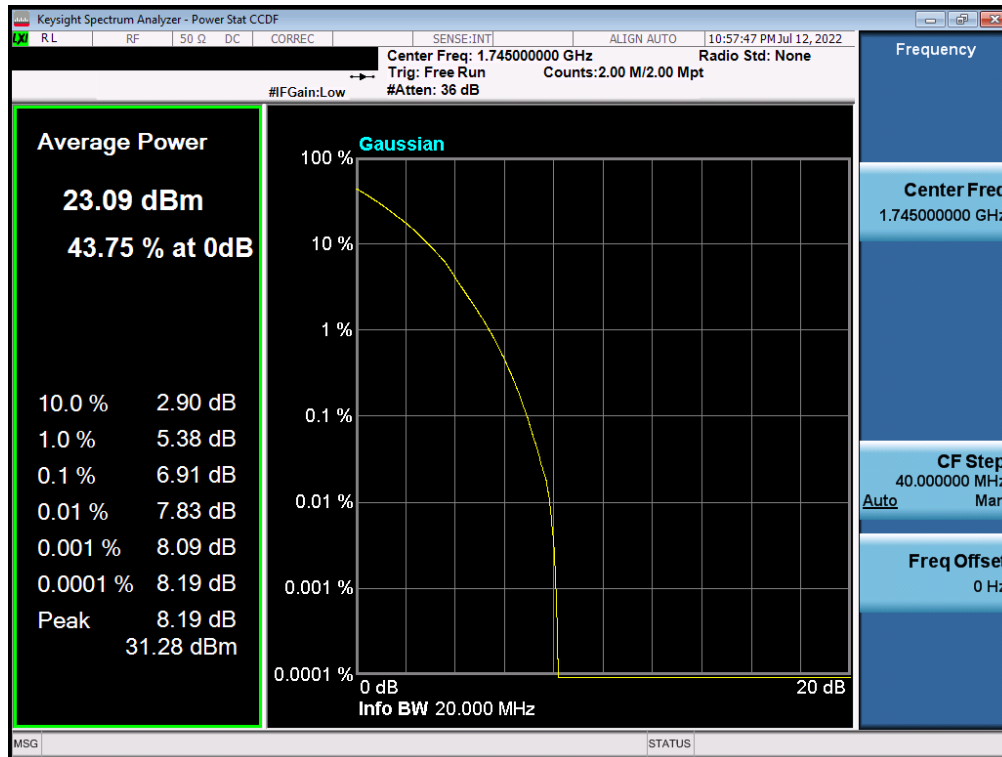


Plot 7-415. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - Full RB)

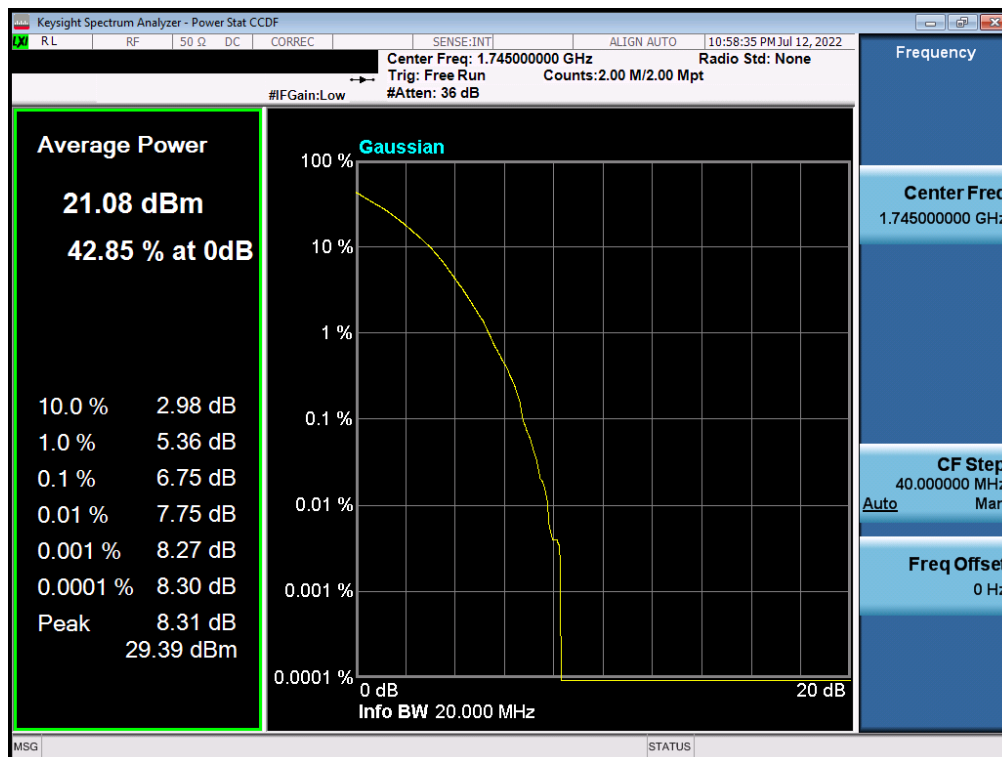


Plot 7-416. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 236 of 334

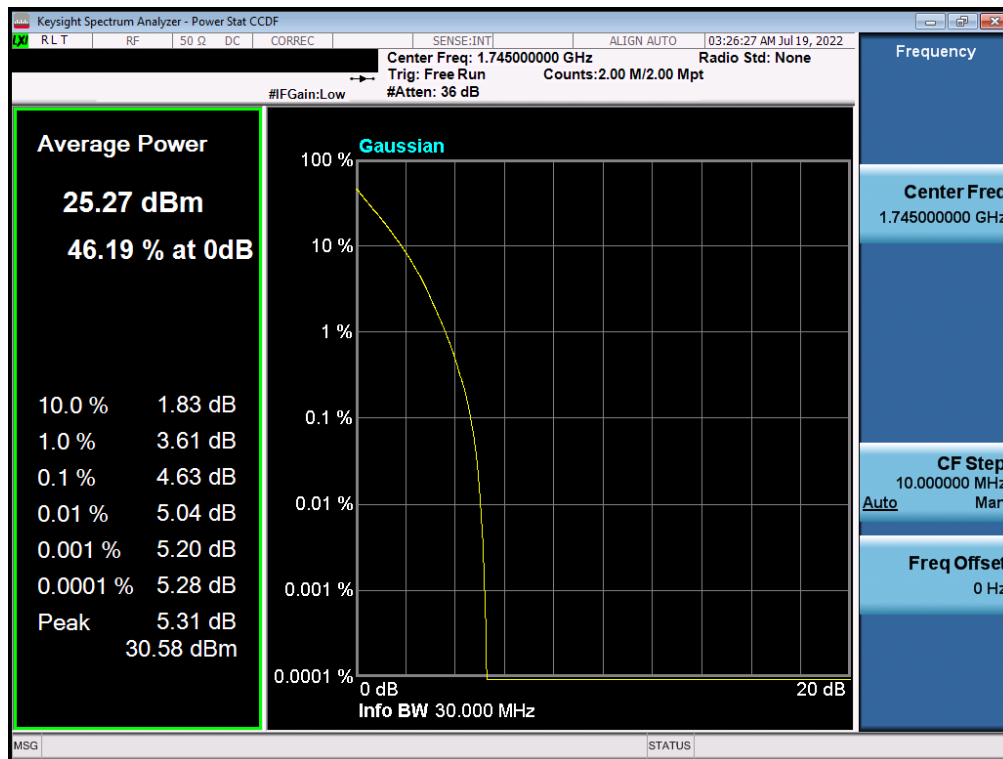


Plot 7-417. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM 64-QAM - Full RB)

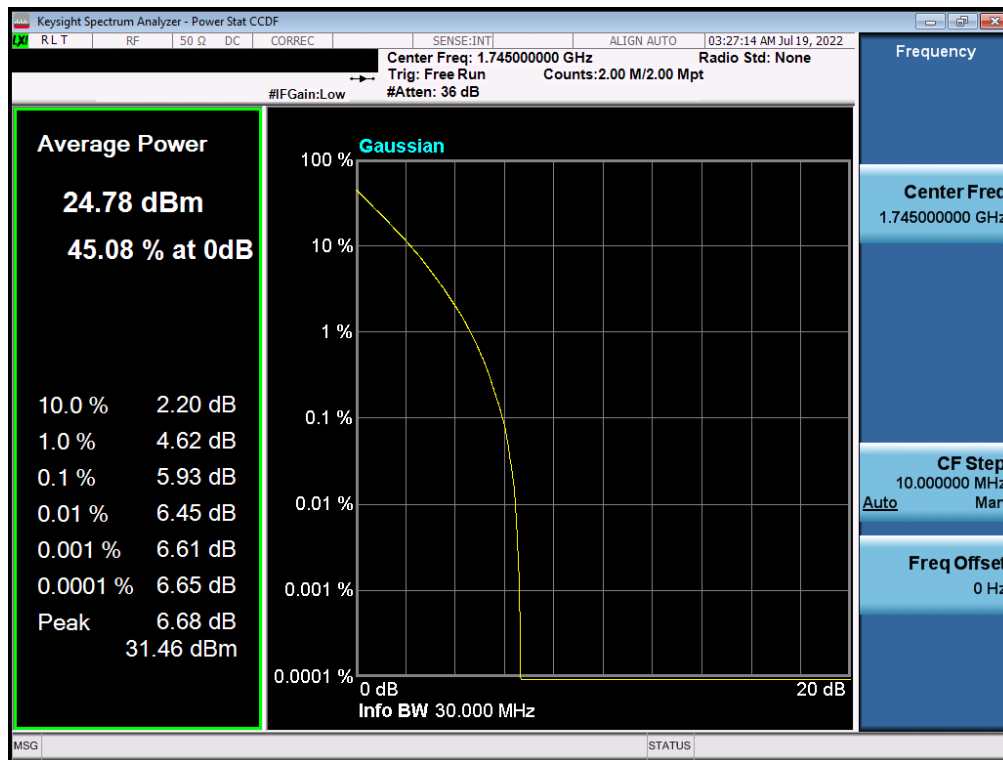


Plot 7-418. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 237 of 334

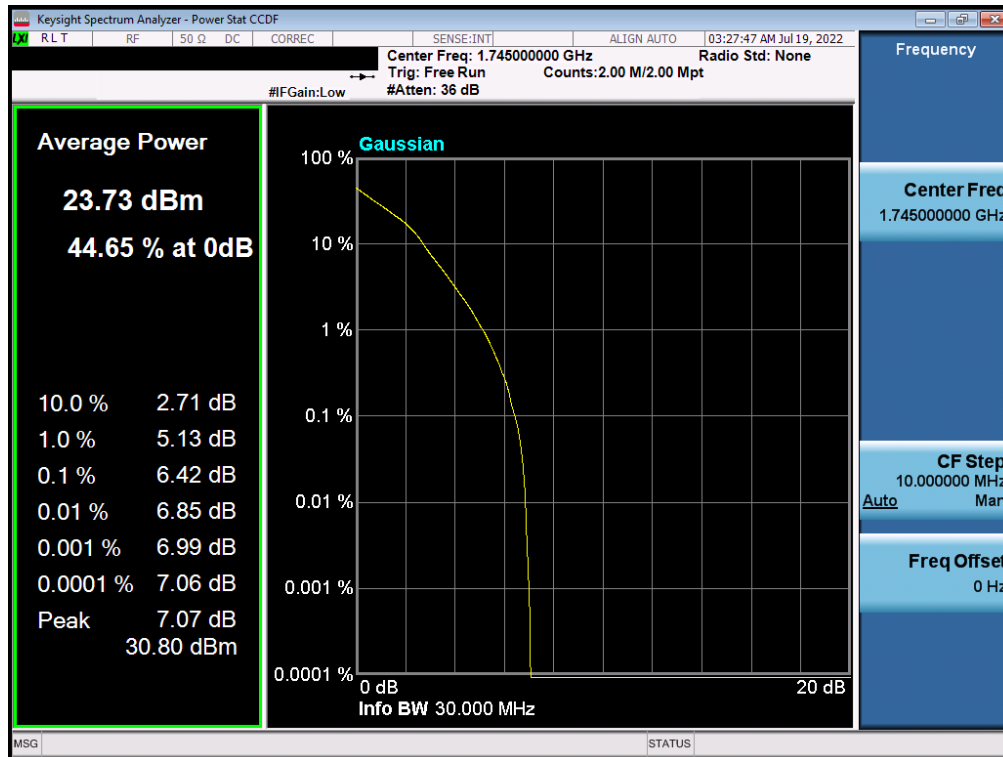


Plot 7-419. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

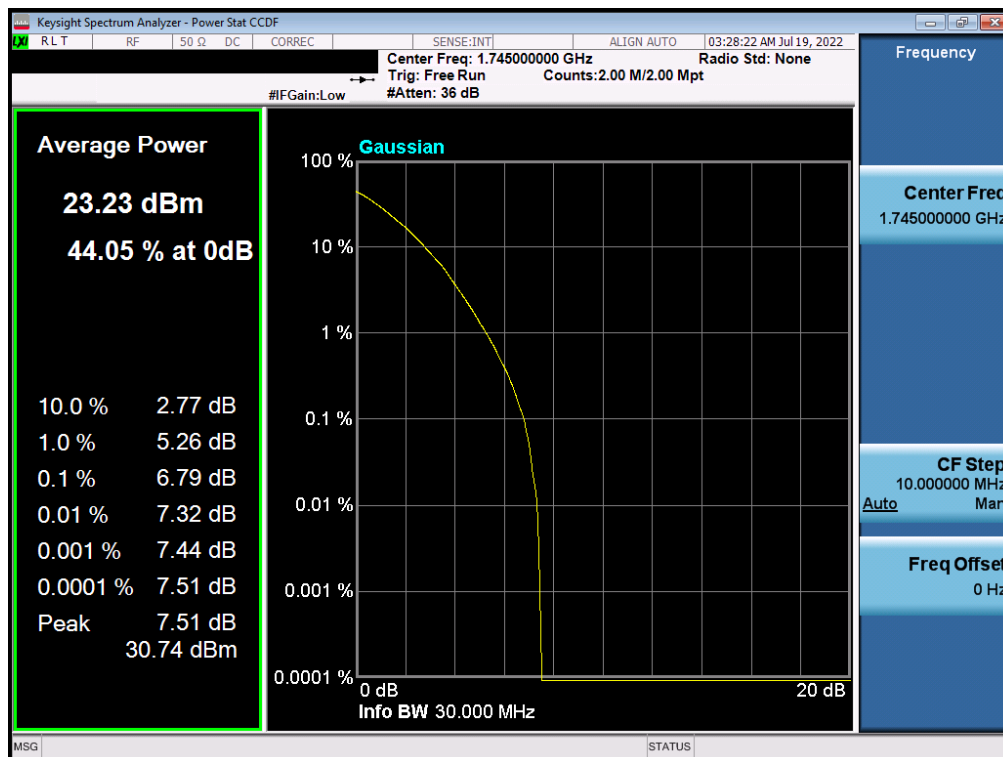


Plot 7-420. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 238 of 334

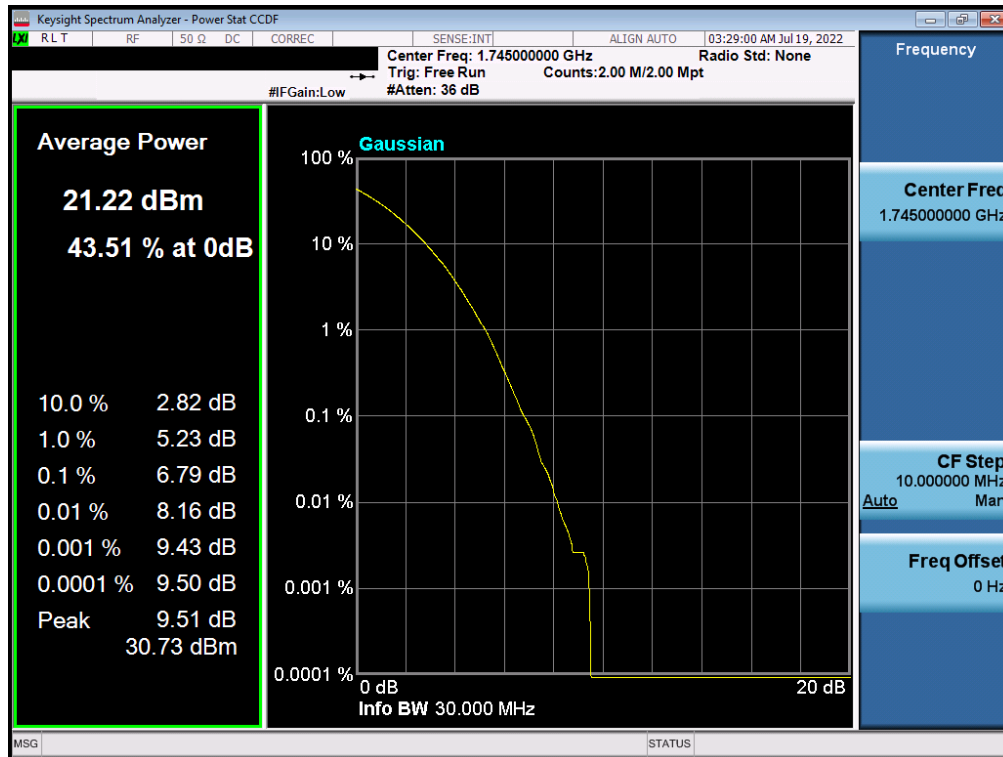


Plot 7-421. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM 16-QAM - Full RB)

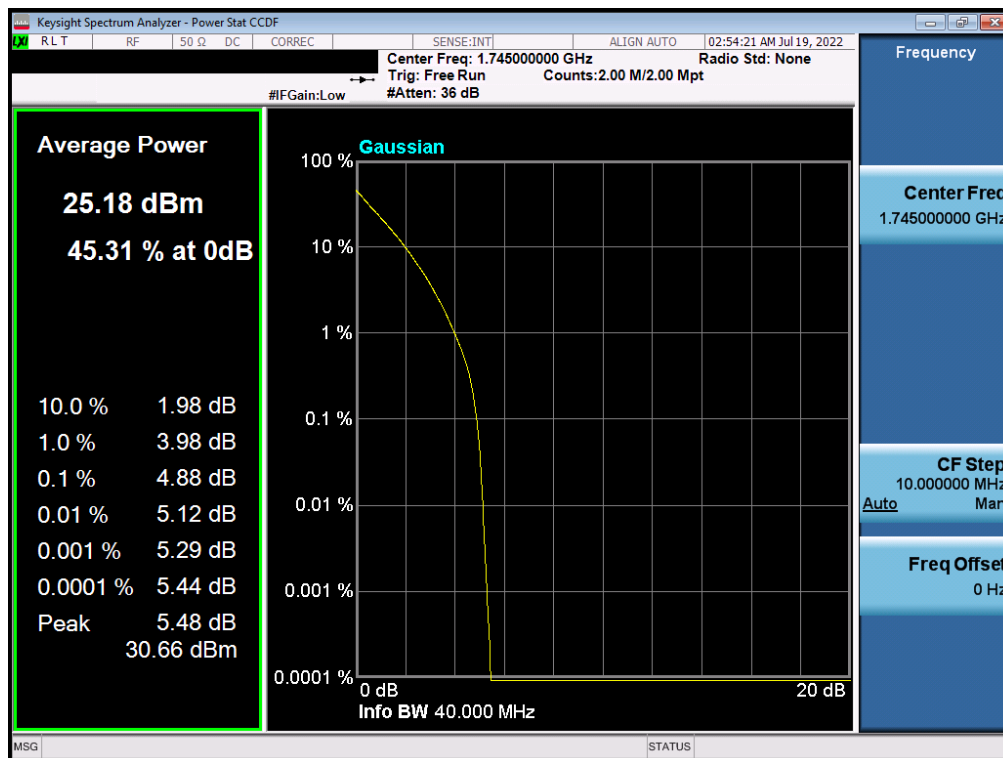


Plot 7-422. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 239 of 334

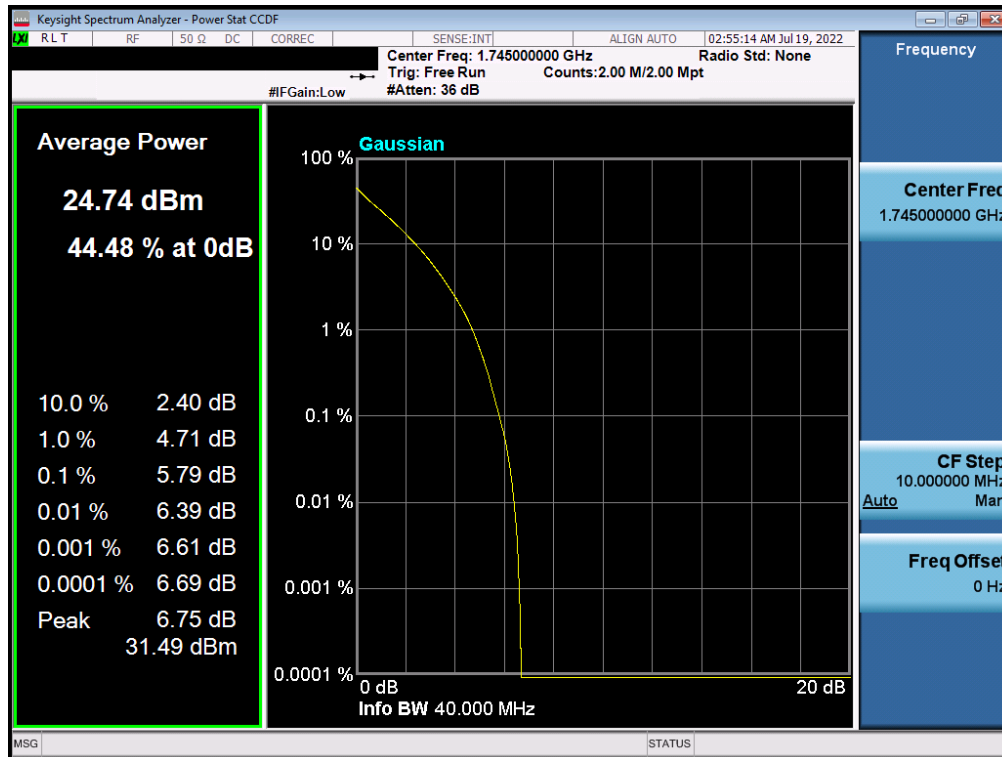


Plot 7-423. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM 256-QAM - Full RB)

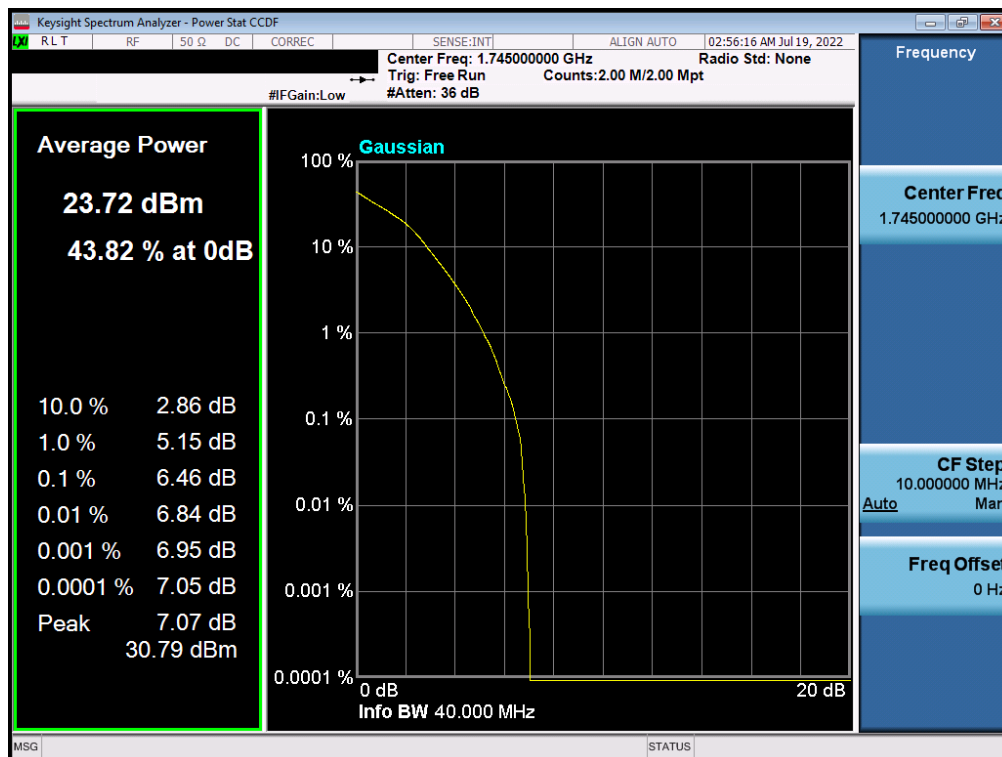


Plot 7-424. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 240 of 334

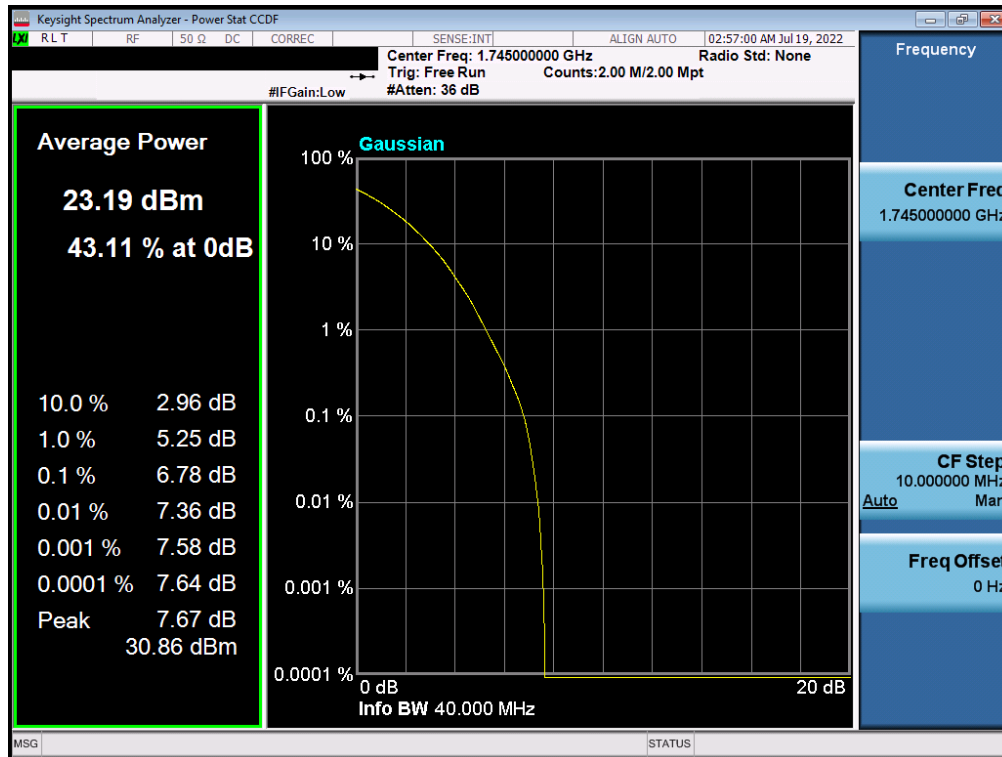


Plot 7-425. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM QPSK - Full RB)

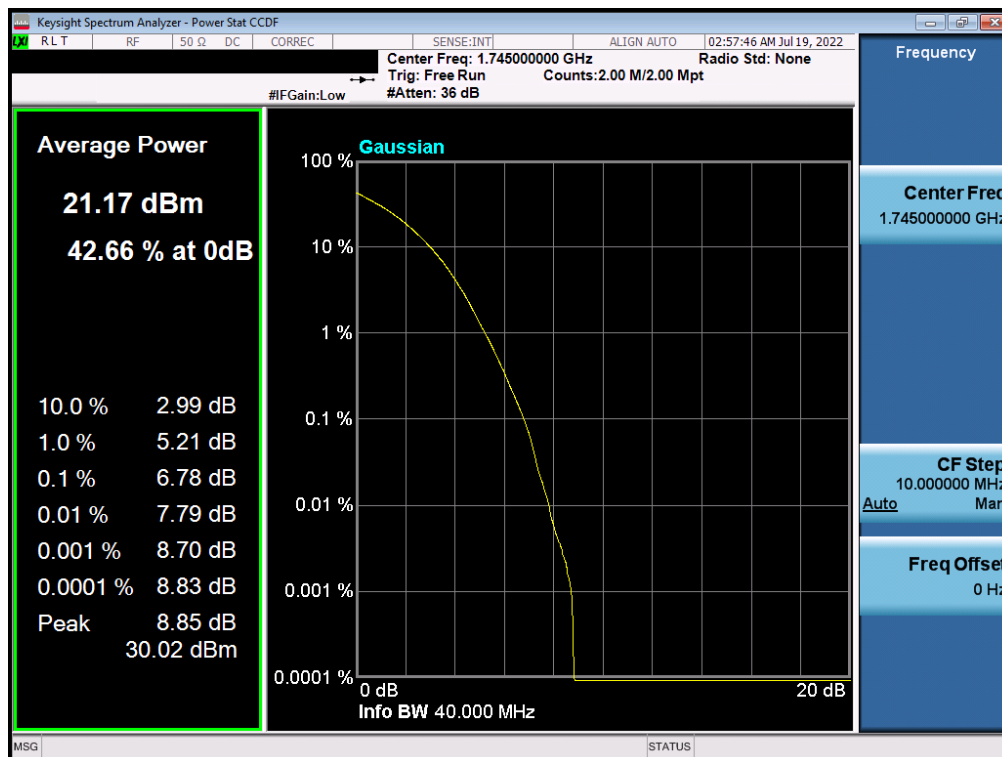


Plot 7-426. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 241 of 334



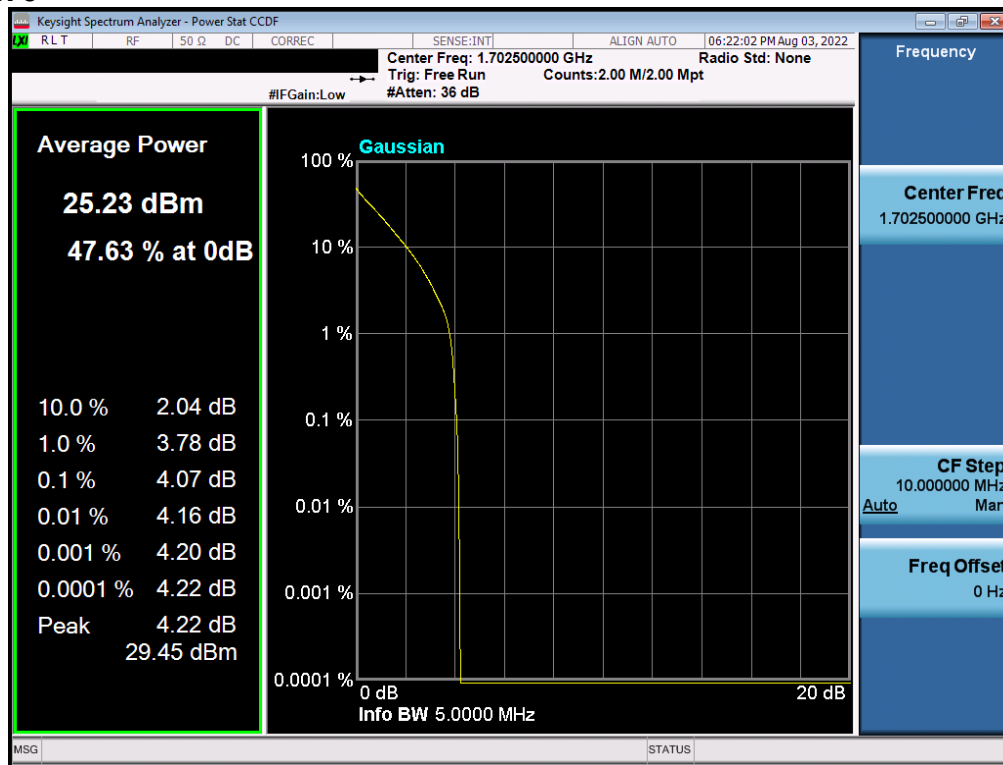
Plot 7-427. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM 64-QAM - Full RB)



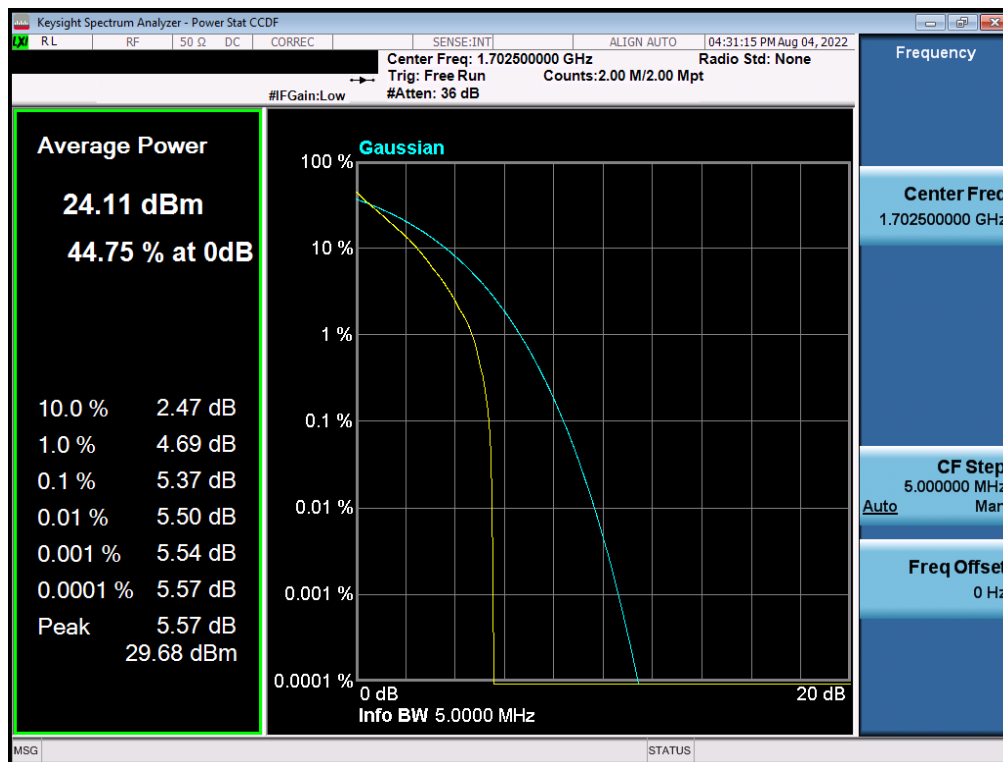
Plot 7-428. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 242 of 334

NR Band n70

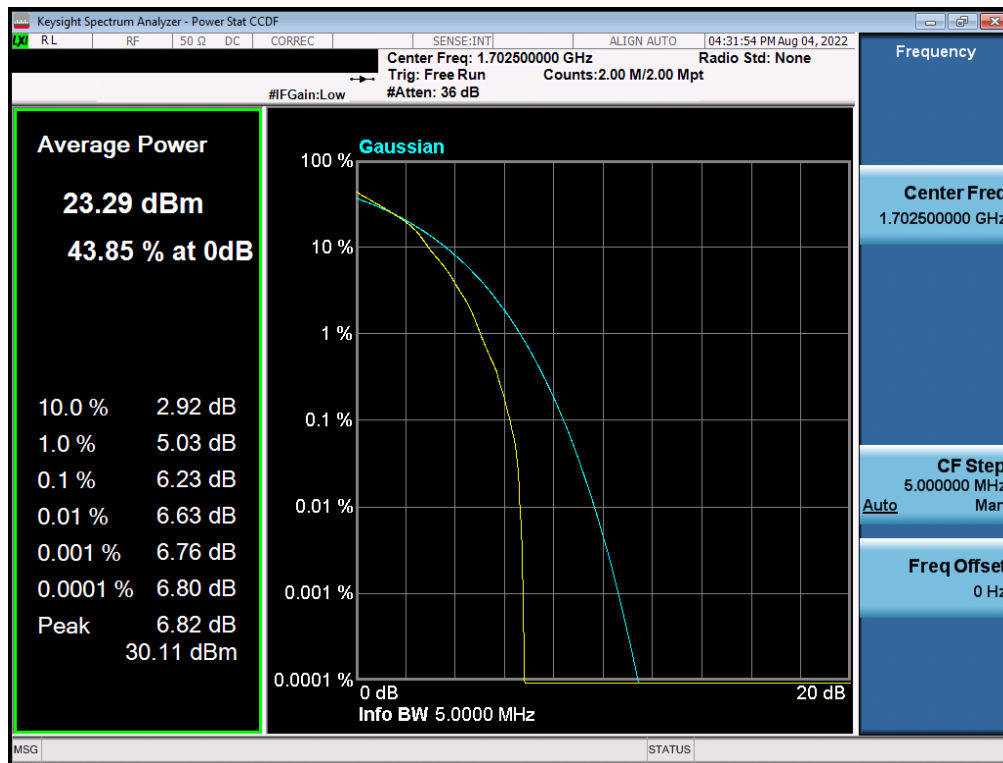


Plot 7-429. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

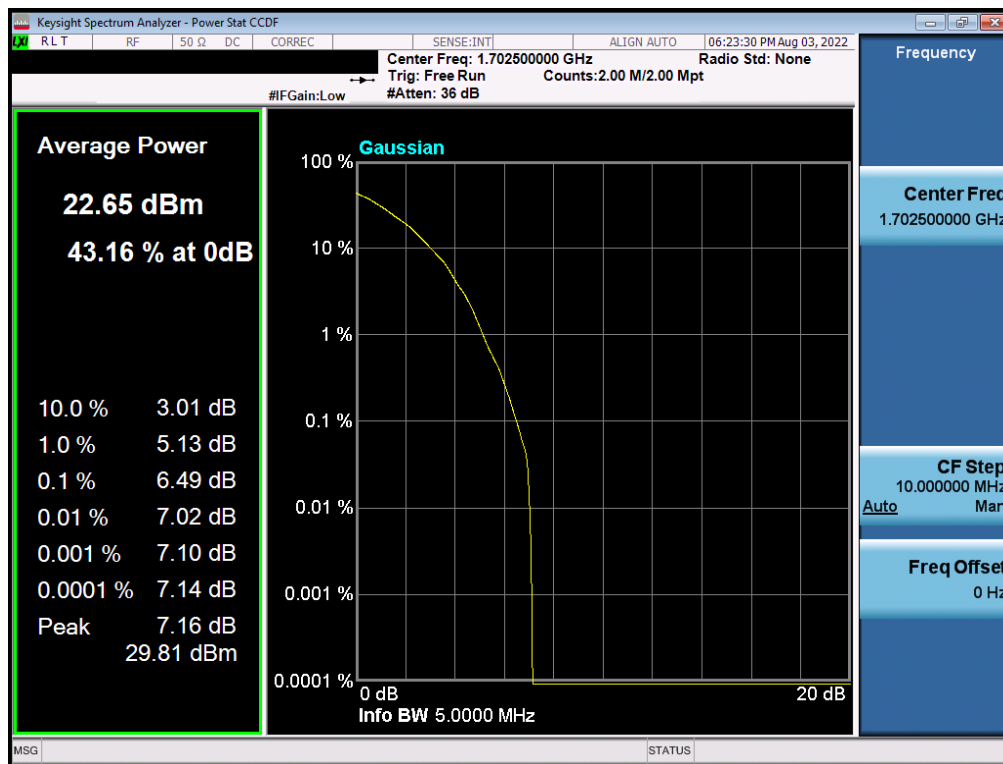


Plot 7-430. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device
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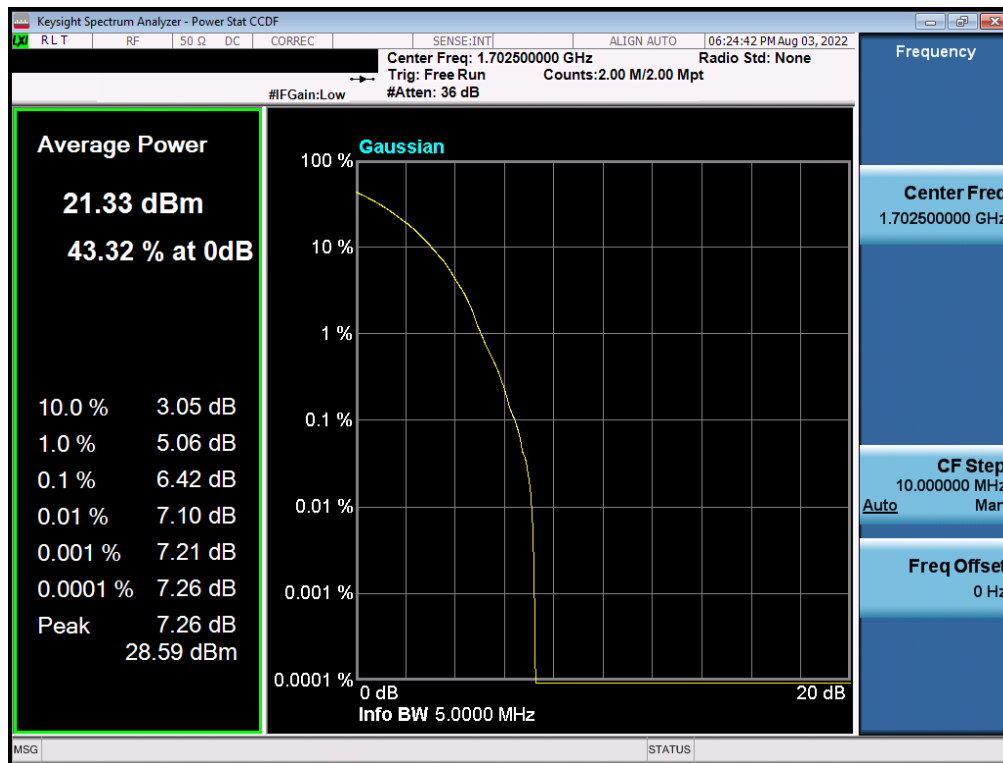


Plot 7-431. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)

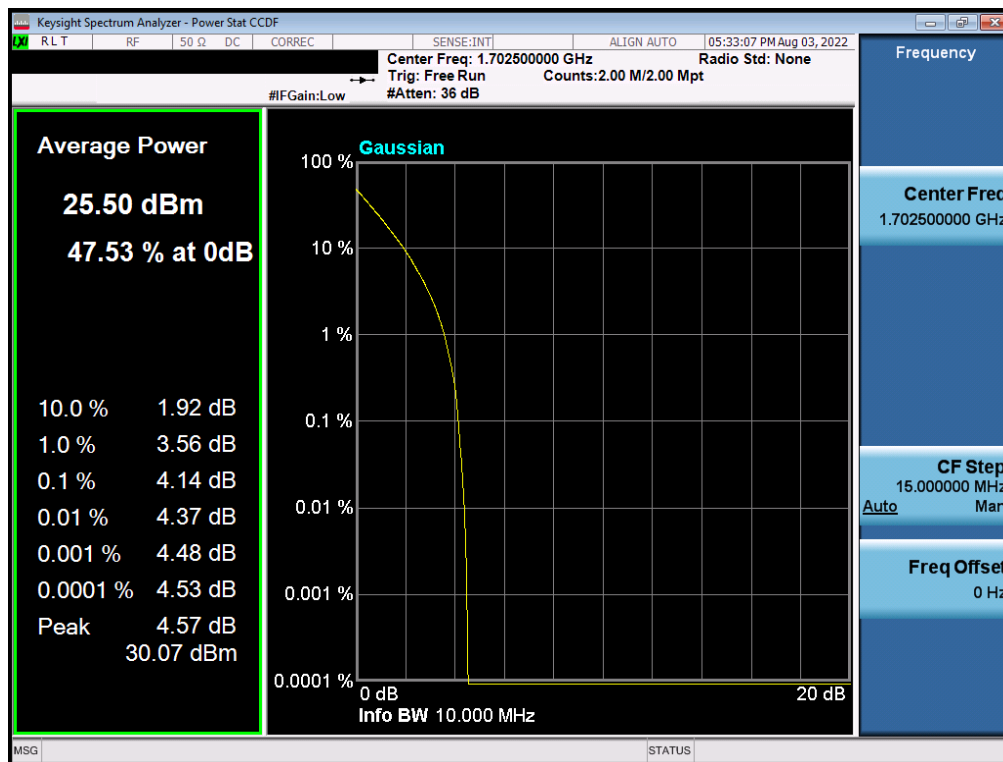


Plot 7-432. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2764	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 244 of 334

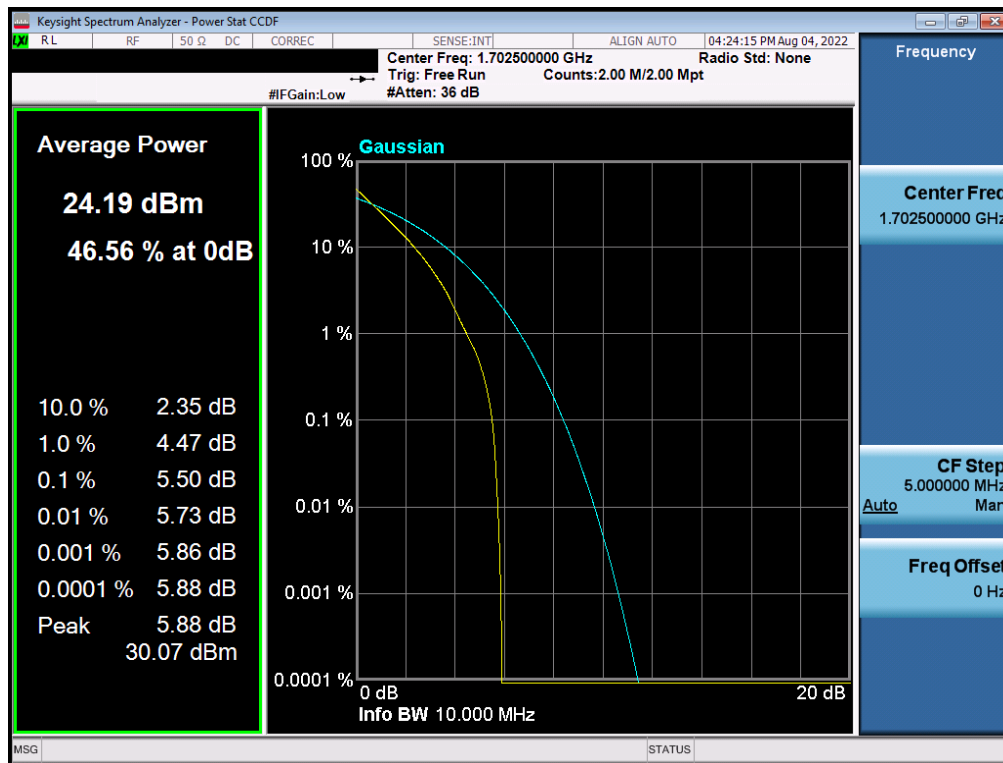


Plot 7-433. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM 256-QAM - Full RB)

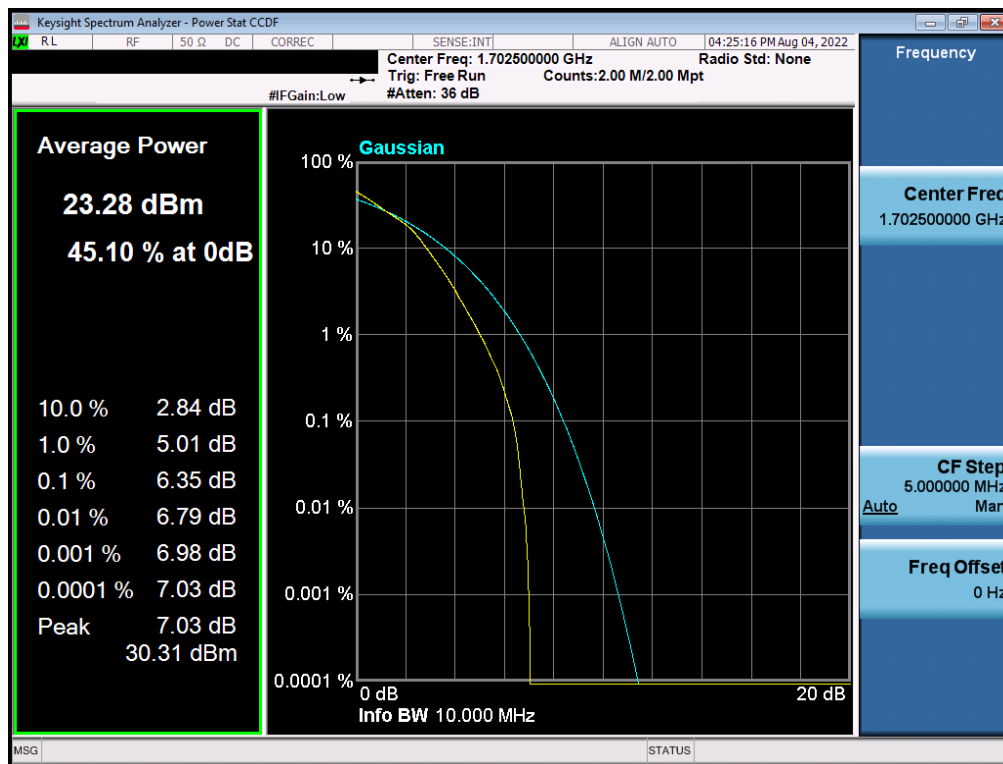


Plot 7-434. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 245 of 334

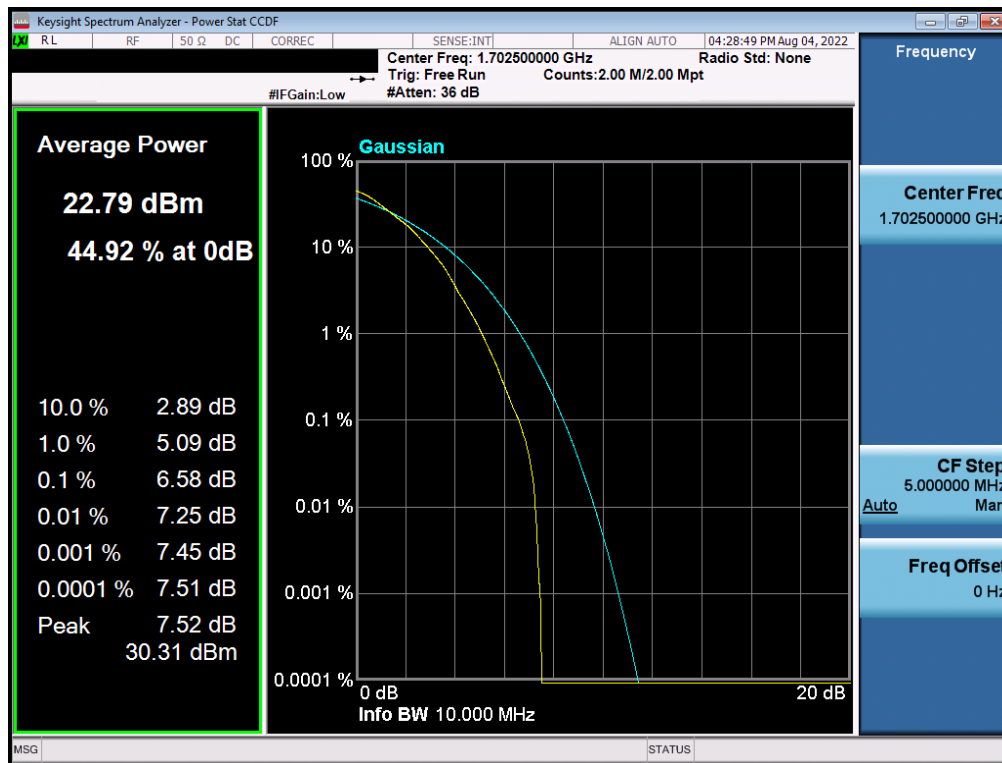


Plot 7-435. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

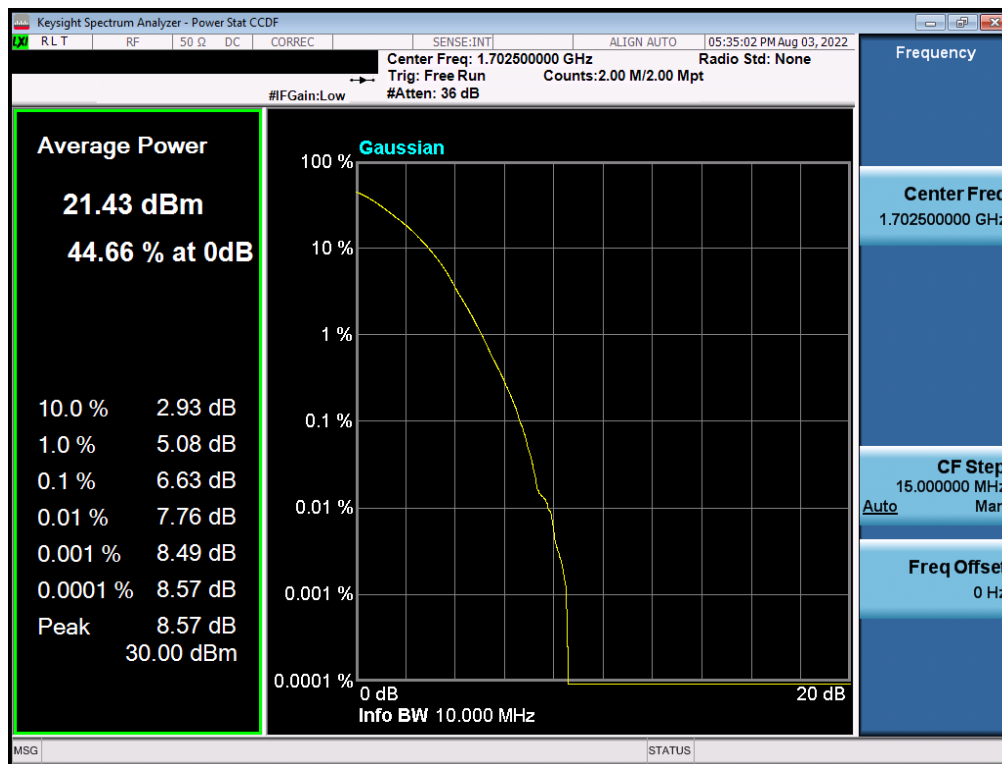


Plot 7-436. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 246 of 334

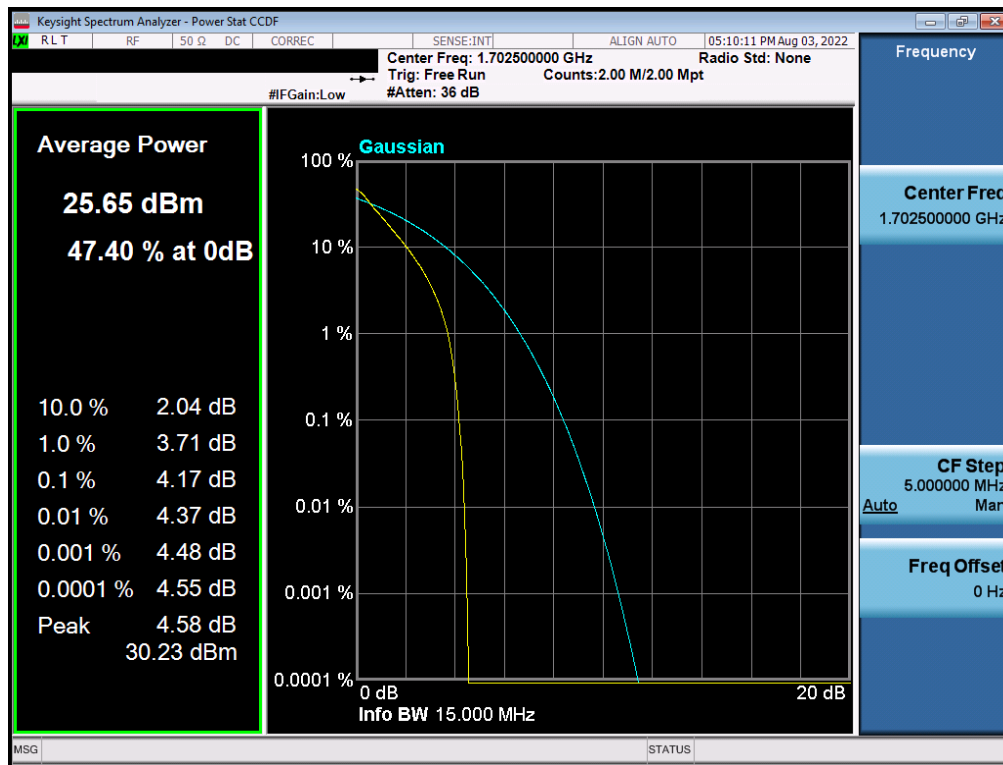


Plot 7-437. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

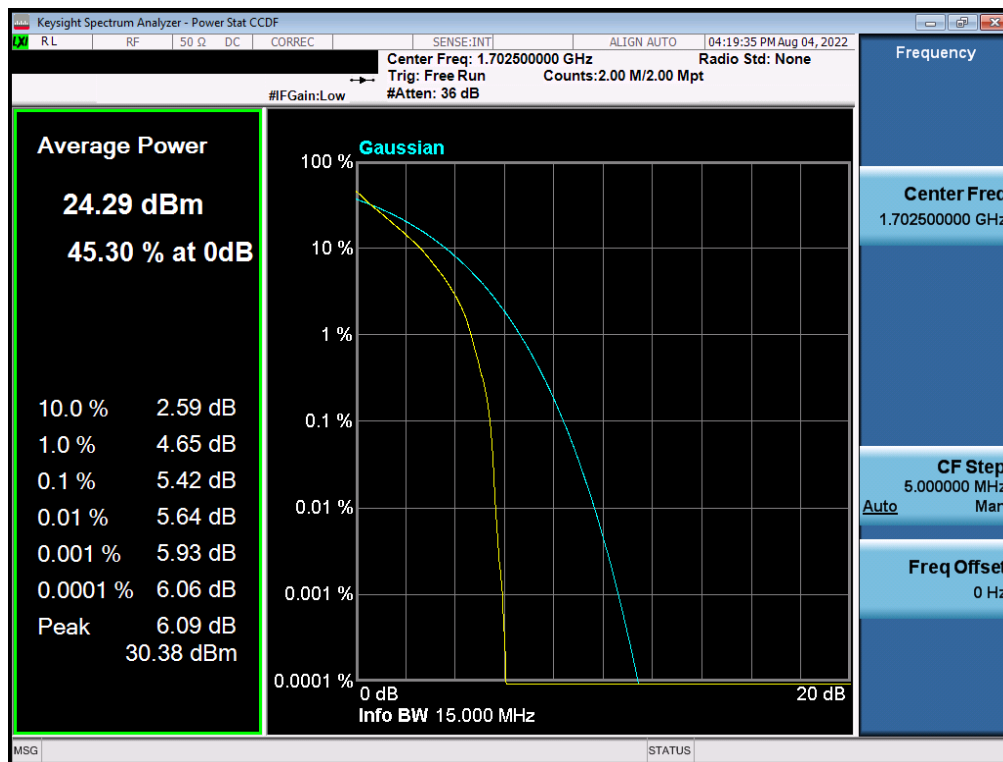


Plot 7-438. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2764	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-03.BCG	Test Dates: 5/30/2022 - 9/16/2022	EUT Type: Tablet Device	Page 247 of 334

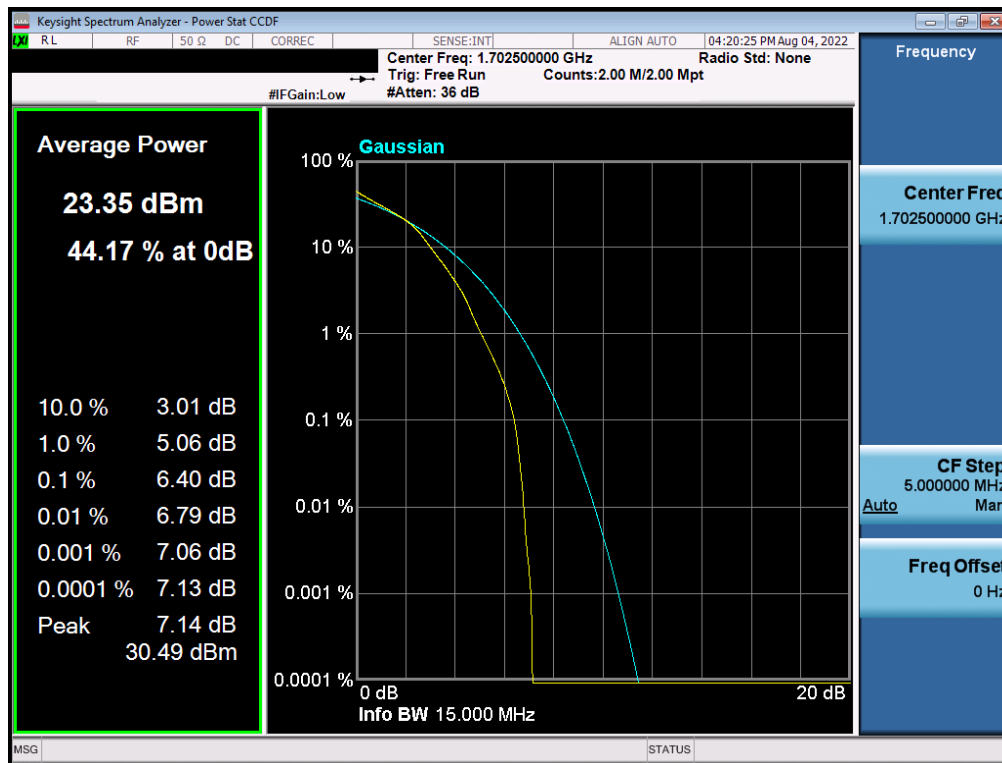


Plot 7-439. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

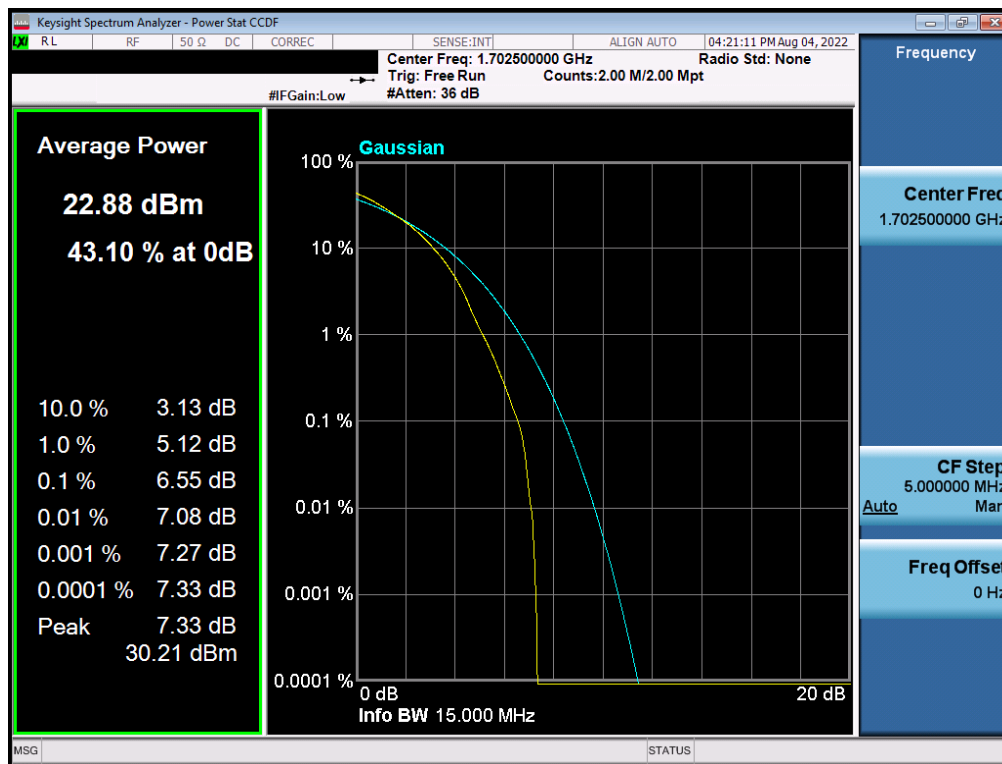


Plot 7-440. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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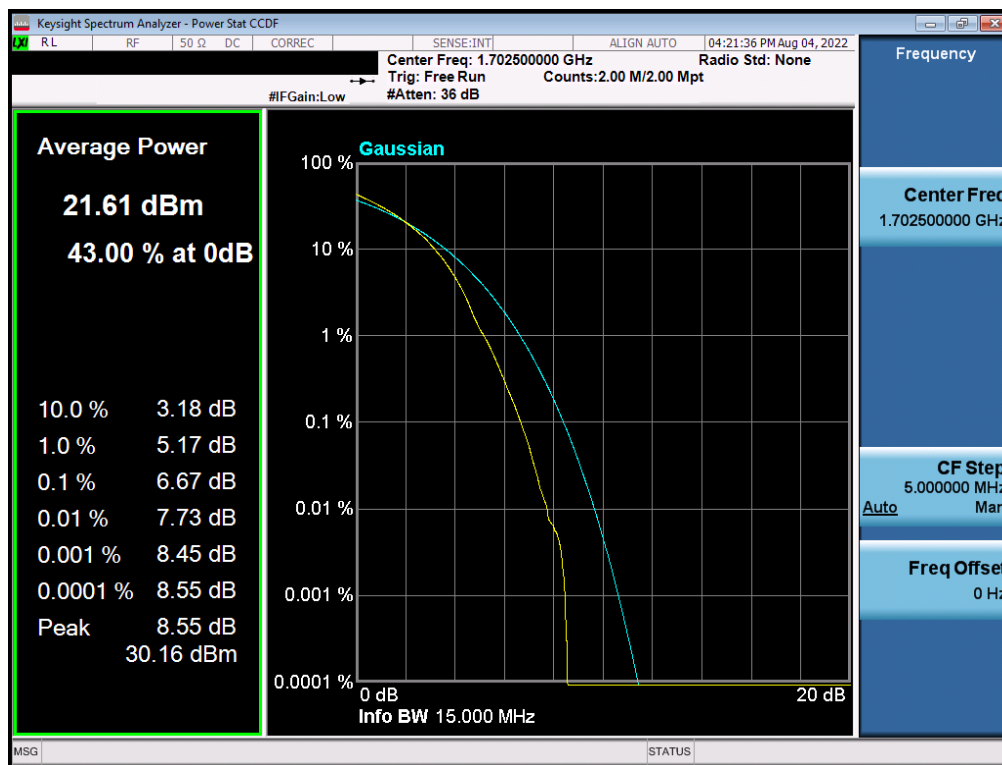


Plot 7-441. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)



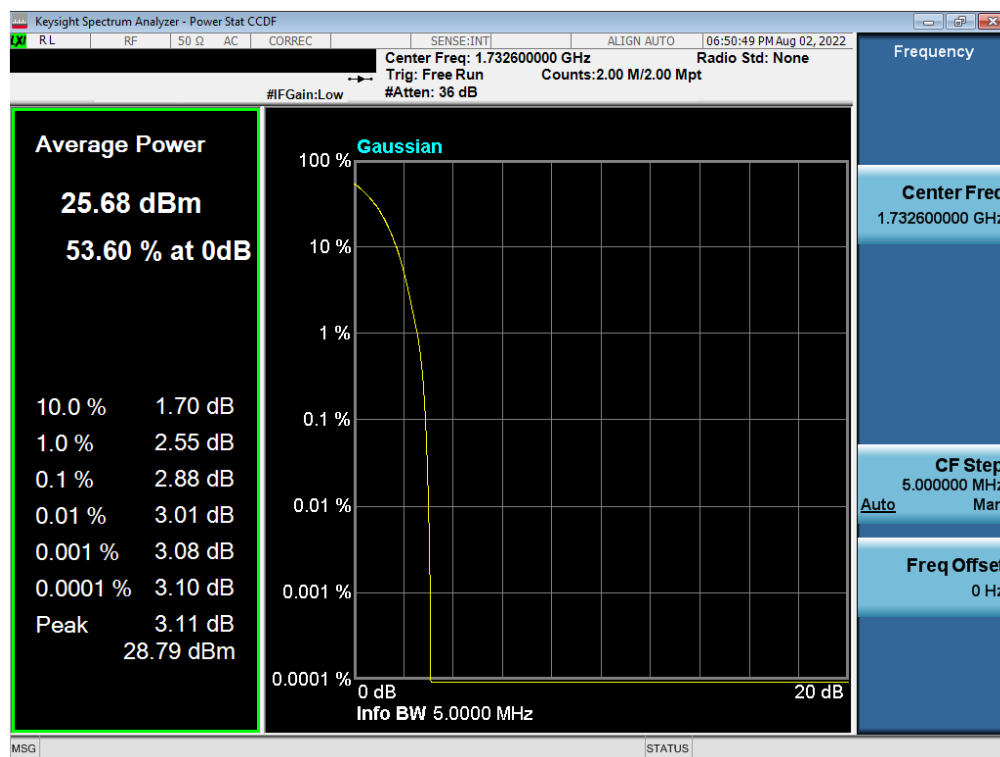
Plot 7-442. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

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Plot 7-443. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM 256-QAM - Full RB)

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Plot 7-444. PAR Plot (WCDMA, Ch. 1413)

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7.6 Radiated Power (ERP/EIRP)

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

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

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

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

Where:

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

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

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

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

Test Setup

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

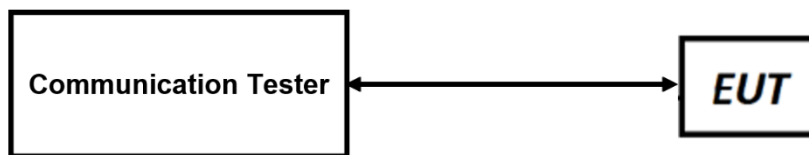


Figure 7-5. ERP/EIRP Measurement Setup

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Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
5. The Ant. Gains (GT) are listed in dBi.
6. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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7.6.1 Antenna 4b – EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-4.40	1 / 5	24.61	20.21	0.105	30.00	-9.79
		1745.0	-4.40	1 / 3	24.65	20.25	0.106	30.00	-9.75
		1779.3	-4.40	1 / 3	24.70	20.30	0.107	30.00	-9.70
	16-QAM	1779.3	-4.40	1 / 5	23.82	19.42	0.087	30.00	-10.58
	64-QAM	1779.3	-4.40	1 / 3	23.06	18.66	0.073	30.00	-11.34
	256-QAM	1710.7	-4.40	1 / 0	20.69	16.29	0.043	30.00	-13.71
3 MHz	QPSK	1711.5	-4.40	1 / 0	24.66	20.26	0.106	30.00	-9.74
		1745.0	-4.40	1 / 7	24.70	20.30	0.107	30.00	-9.70
		1778.5	-4.40	1 / 0	24.65	20.25	0.106	30.00	-9.75
	16-QAM	1711.5	-4.40	1 / 0	23.85	19.45	0.088	30.00	-10.55
	64-QAM	1745.0	-4.40	1 / 7	23.01	18.61	0.073	30.00	-11.39
	256-QAM	1711.5	-4.40	1 / 0	20.74	16.34	0.043	30.00	-13.66
5 MHz	QPSK	1712.5	-4.40	1 / 0	24.70	20.30	0.107	30.00	-9.70
		1745.0	-4.40	1 / 12	24.67	20.27	0.106	30.00	-9.73
		1777.5	-4.40	1 / 0	24.69	20.29	0.107	30.00	-9.71
	16-QAM	1712.5	-4.40	1 / 24	23.88	19.48	0.089	30.00	-10.52
	64-QAM	1745.0	-4.40	1 / 0	22.88	18.48	0.070	30.00	-11.52
	256-QAM	1712.5	-4.40	1 / 0	20.74	16.34	0.043	30.00	-13.66
10 MHz	QPSK	1715.0	-4.40	1 / 0	24.69	20.29	0.107	30.00	-9.71
		1745.0	-4.40	1 / 0	24.70	20.30	0.107	30.00	-9.70
		1775.0	-4.40	1 / 0	24.64	20.24	0.106	30.00	-9.76
	16-QAM	1745.0	-4.40	1 / 0	23.89	19.49	0.089	30.00	-10.51
	64-QAM	1745.0	-4.40	1 / 25	23.00	18.60	0.072	30.00	-11.40
	256-QAM	1745.0	-4.40	1 / 0	20.69	16.29	0.043	30.00	-13.71
15 MHz	QPSK	1717.5	-4.40	1 / 37	24.70	20.30	0.107	30.00	-9.70
		1745.0	-4.40	1 / 37	24.60	20.20	0.105	30.00	-9.80
		1772.5	-4.40	1 / 37	24.56	20.16	0.104	30.00	-9.84
	16-QAM	1772.5	-4.40	1 / 37	23.87	19.47	0.089	30.00	-10.53
	64-QAM	1717.5	-4.40	1 / 37	22.77	18.37	0.069	30.00	-11.63
	256-QAM	1717.5	-4.40	1 / 0	20.62	16.22	0.042	30.00	-13.78
20 MHz	QPSK	1720.0	-4.40	1 / 0	24.62	20.22	0.105	30.00	-9.78
		1745.0	-4.40	1 / 50	24.70	20.30	0.107	30.00	-9.70
		1770.0	-4.40	1 / 50	24.63	20.23	0.105	30.00	-9.77
	16-QAM	1745.0	-4.40	1 / 50	24.15	19.75	0.094	30.00	-10.25
	64-QAM	1720.0	-4.40	1 / 50	22.93	18.53	0.071	30.00	-11.47
	256-QAM	1720.0	-4.40	1 / 0	20.63	16.23	0.042	30.00	-13.77

Table 7-2. Antenna 4b EIRP Data (LTE Band 66)

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