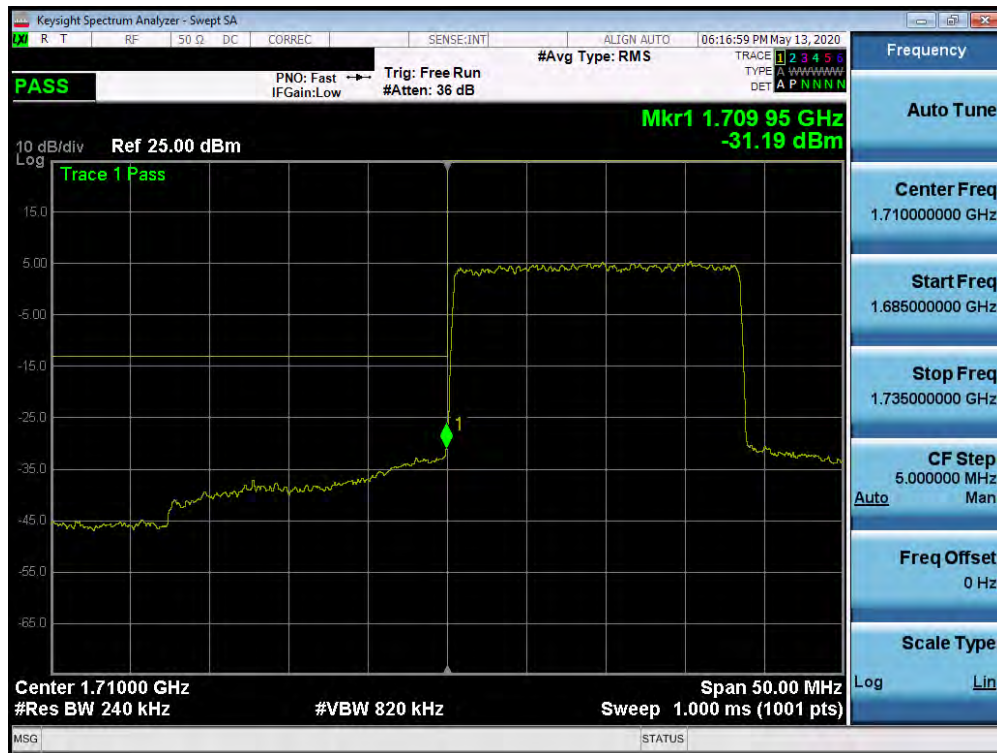
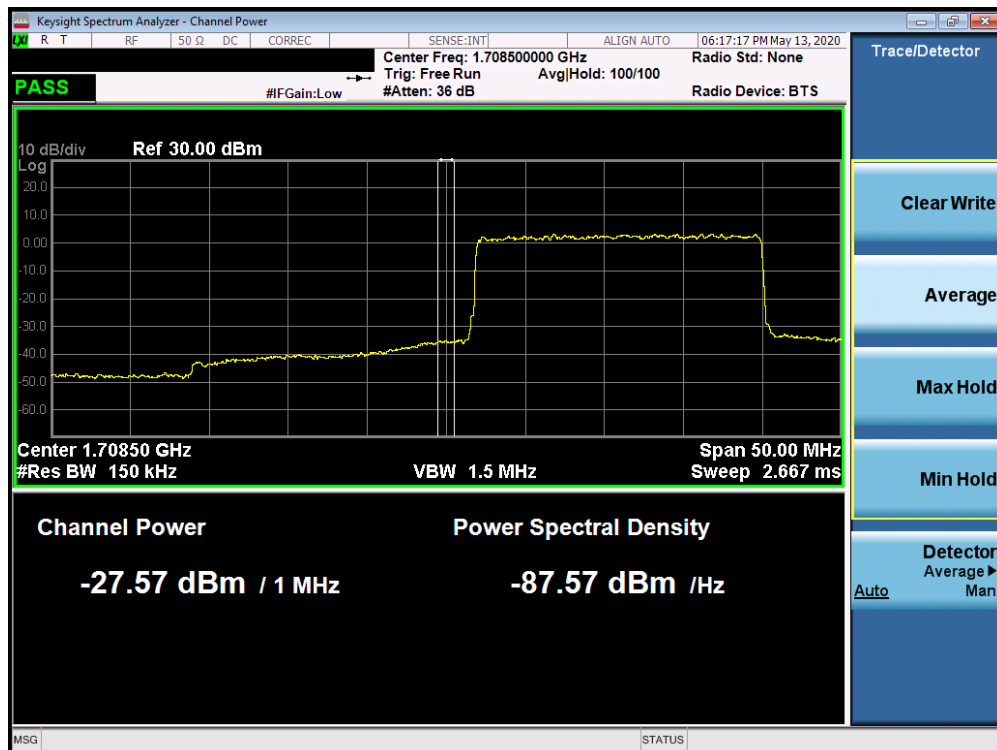


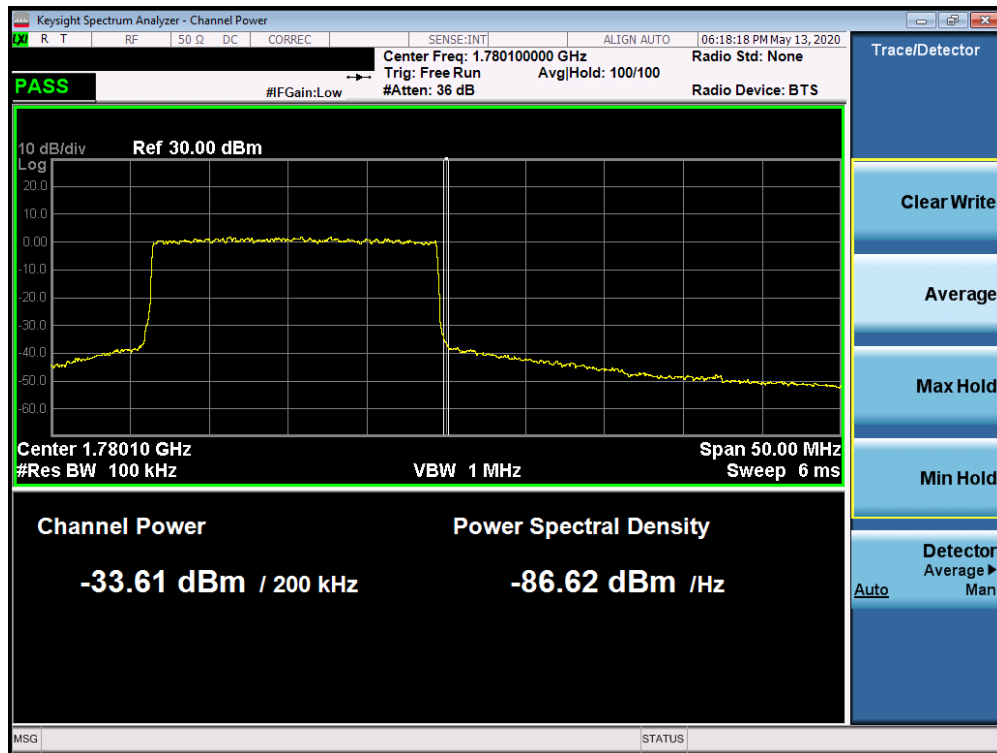


Plot 7-395. Lower Band Edge Plot (n66 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)

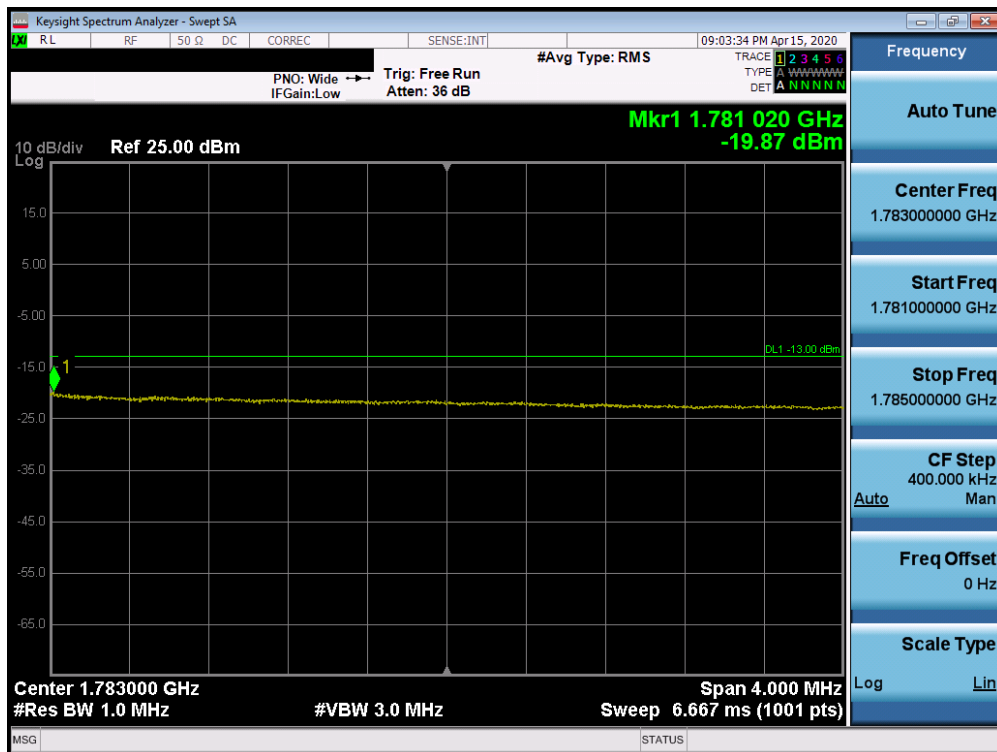


Plot 7-396. Lower Extended Band Edge Plot (n66 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 224 of 443



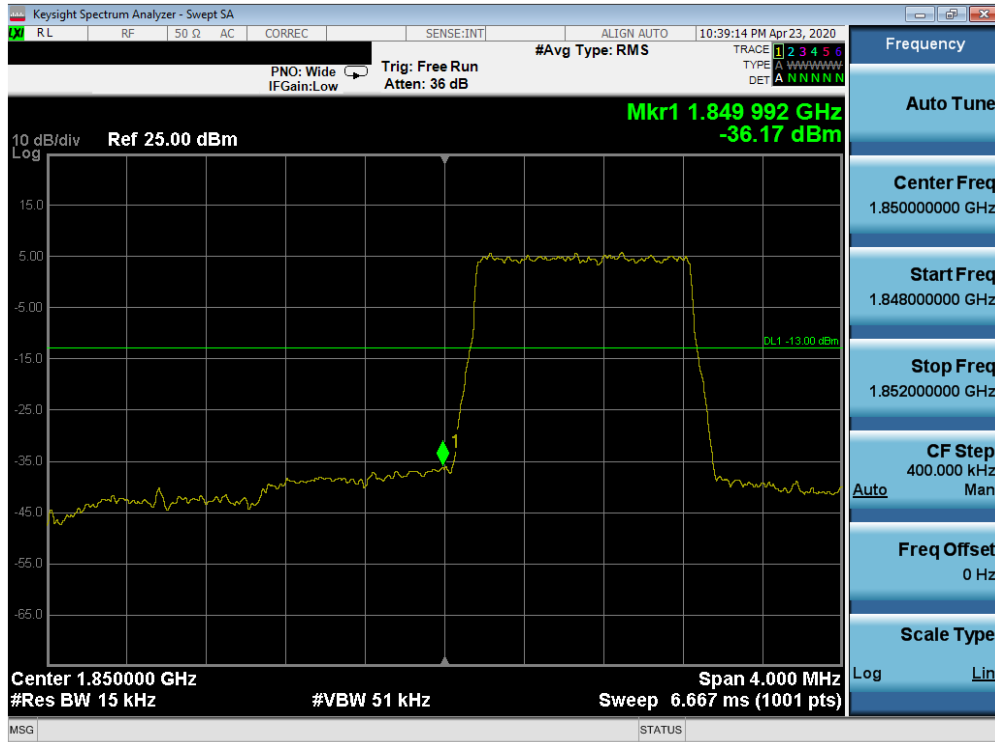
Plot 7-397. Upper Band Edge Plot (n66 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)



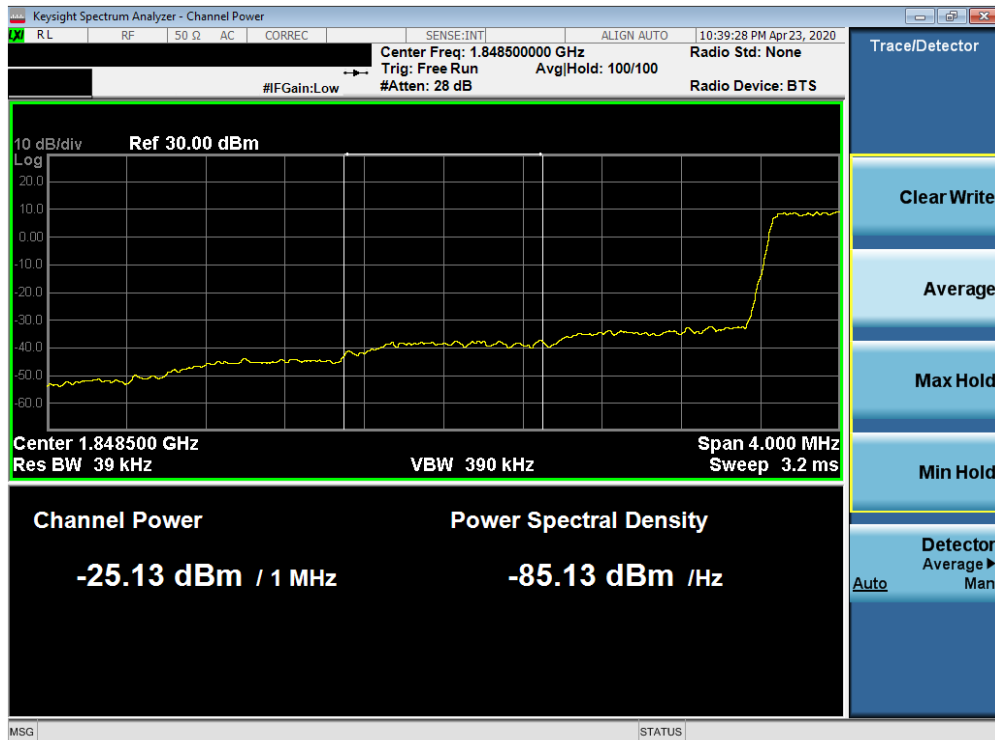
Plot 7-398. Upper Extended Band Edge Plot (n66 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 225 of 443

Band 25/2

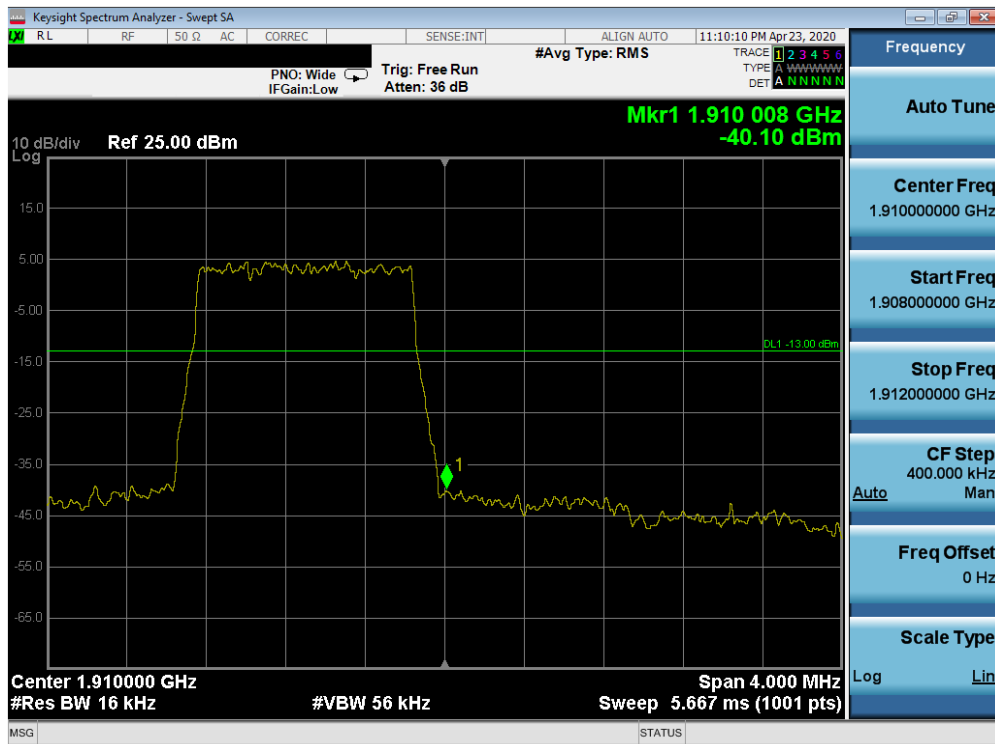


Plot 7-399. Lower Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

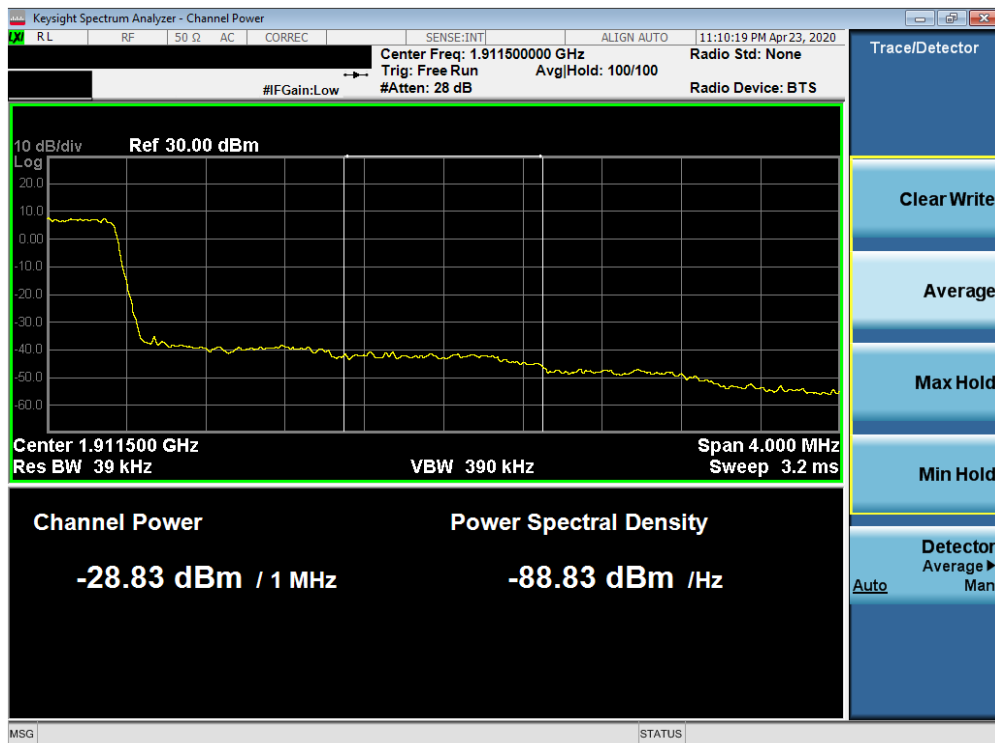


Plot 7-400. Lower Extended Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset	Page 226 of 443



Plot 7-401. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

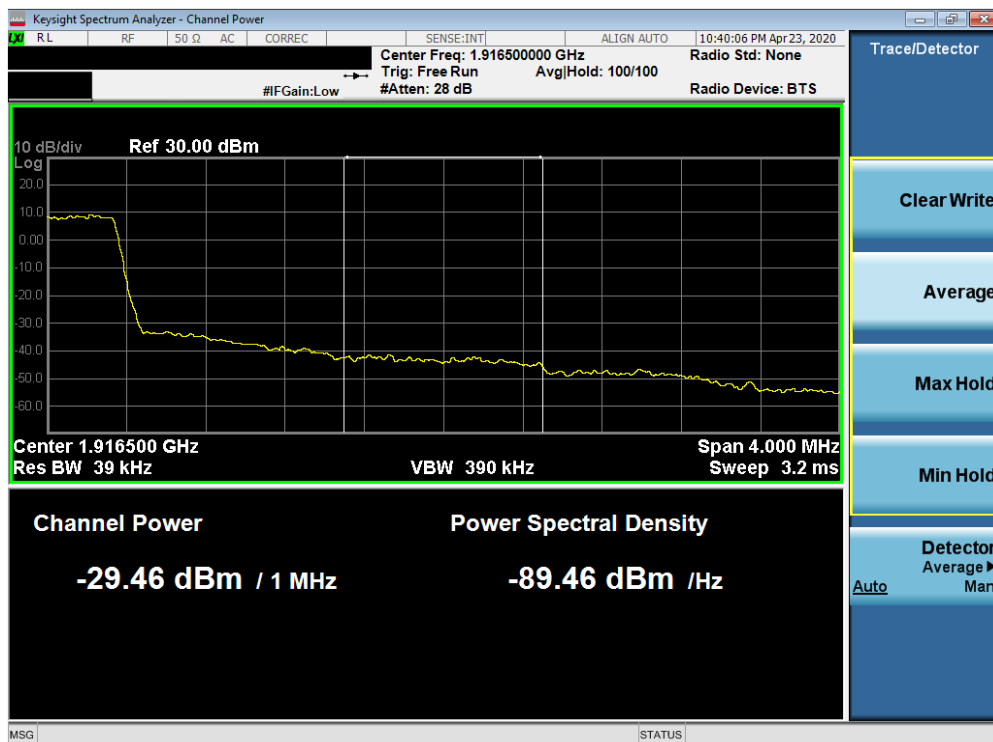


Plot 7-402. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 227 of 443

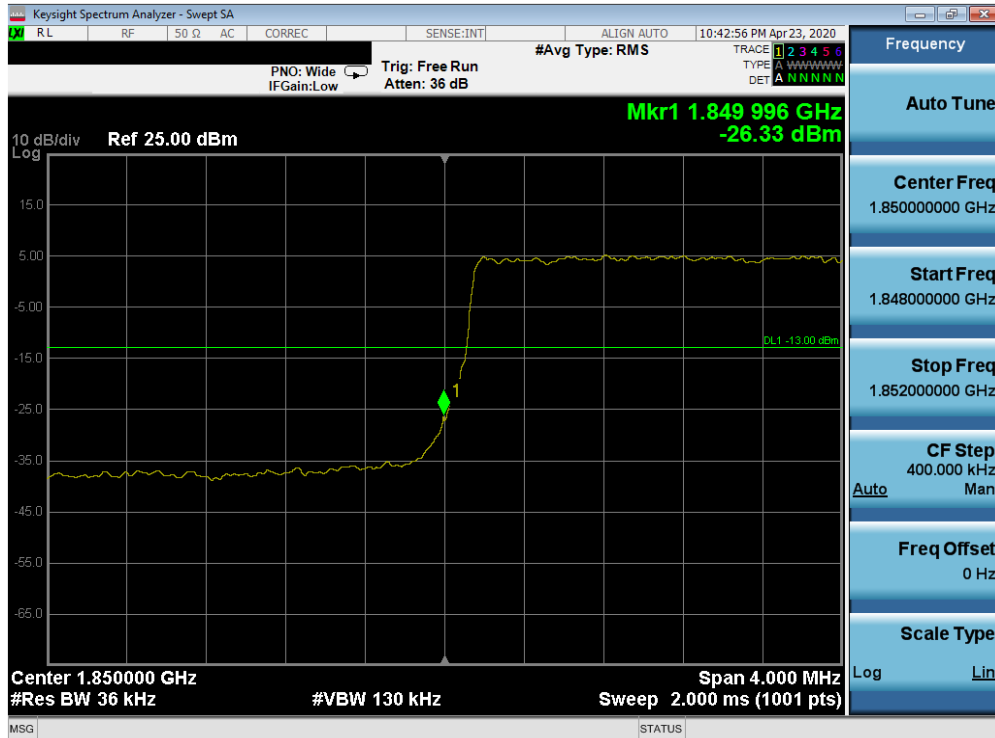


Plot 7-403. Upper Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

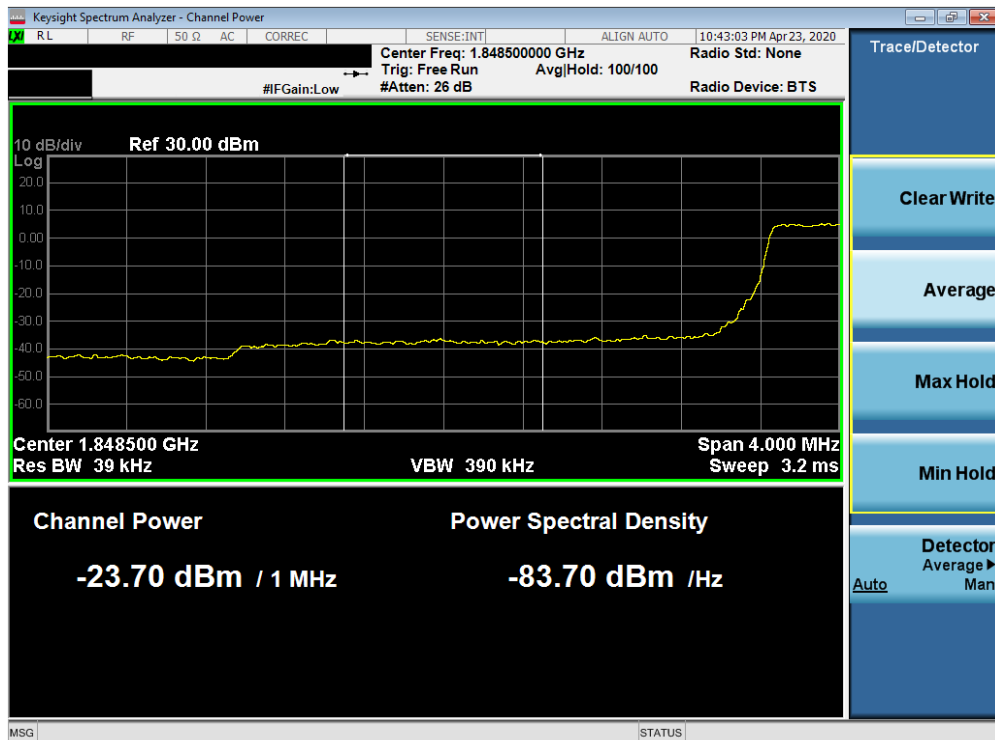


Plot 7-404. Upper Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 228 of 443

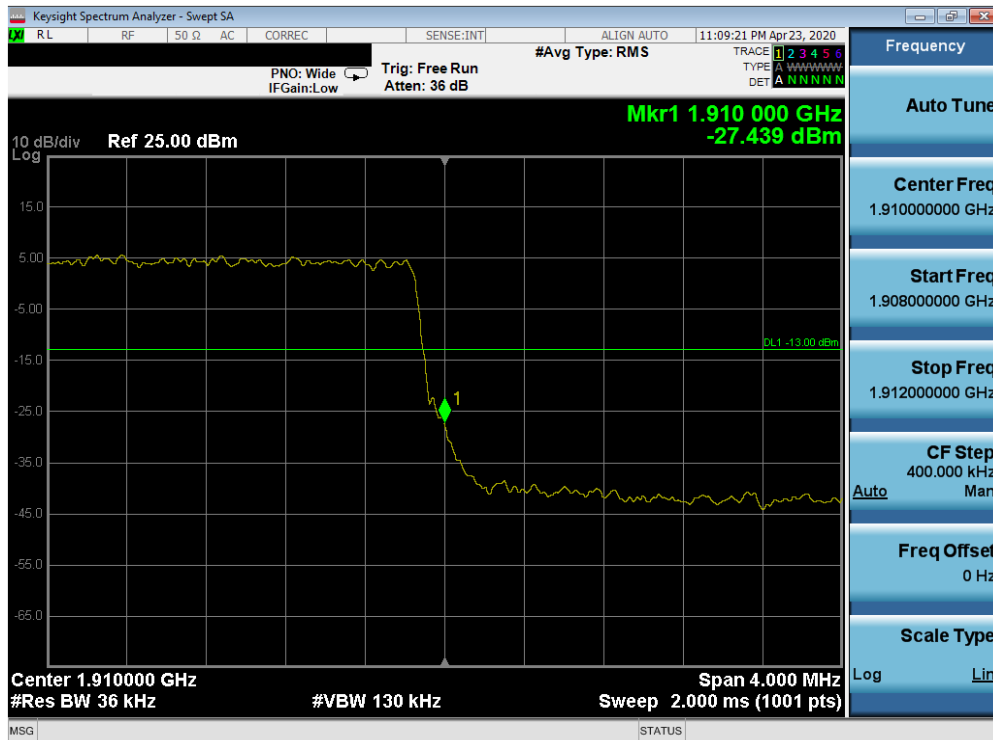


Plot 7-405. Lower Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

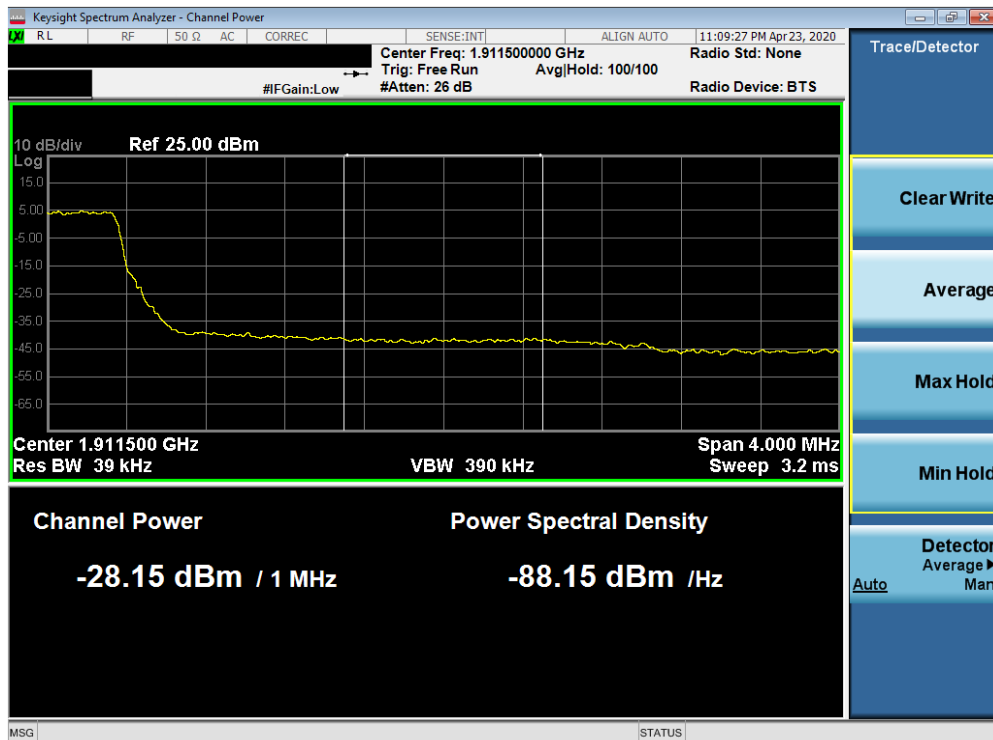


Plot 7-406. Lower Extended Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 229 of 443

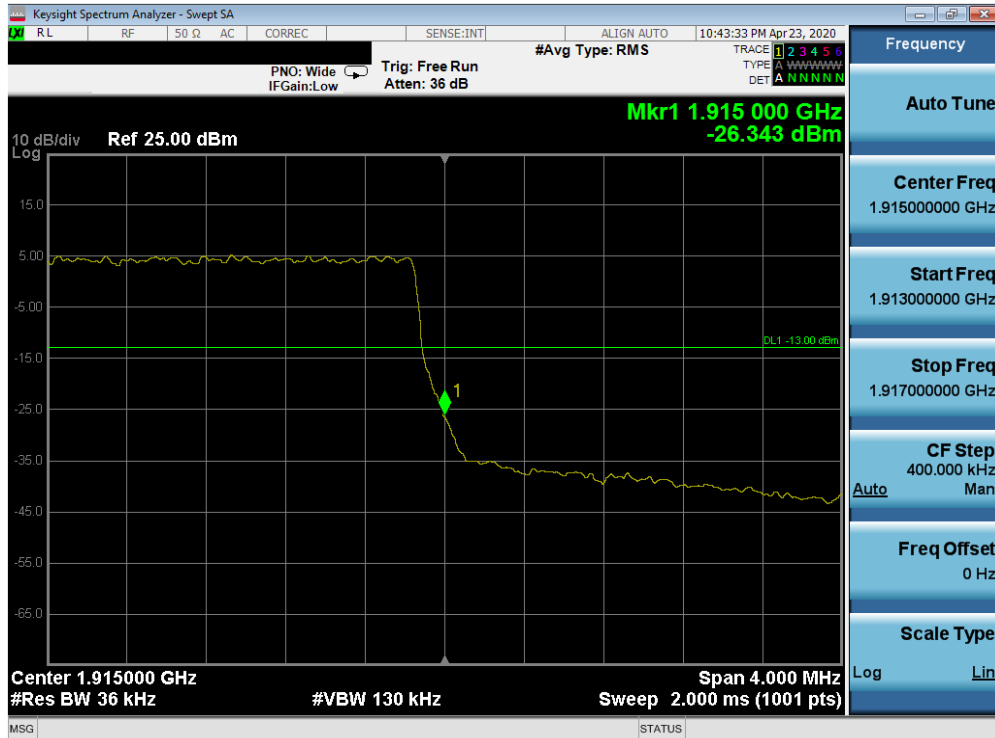


Plot 7-407. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

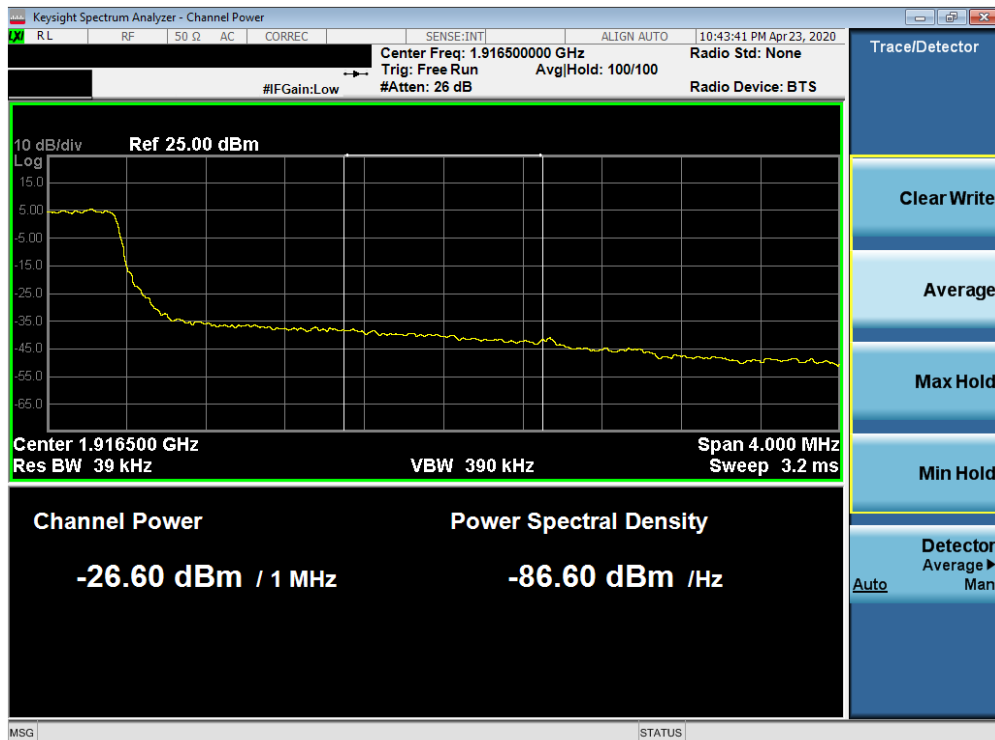


Plot 7-408. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 230 of 443

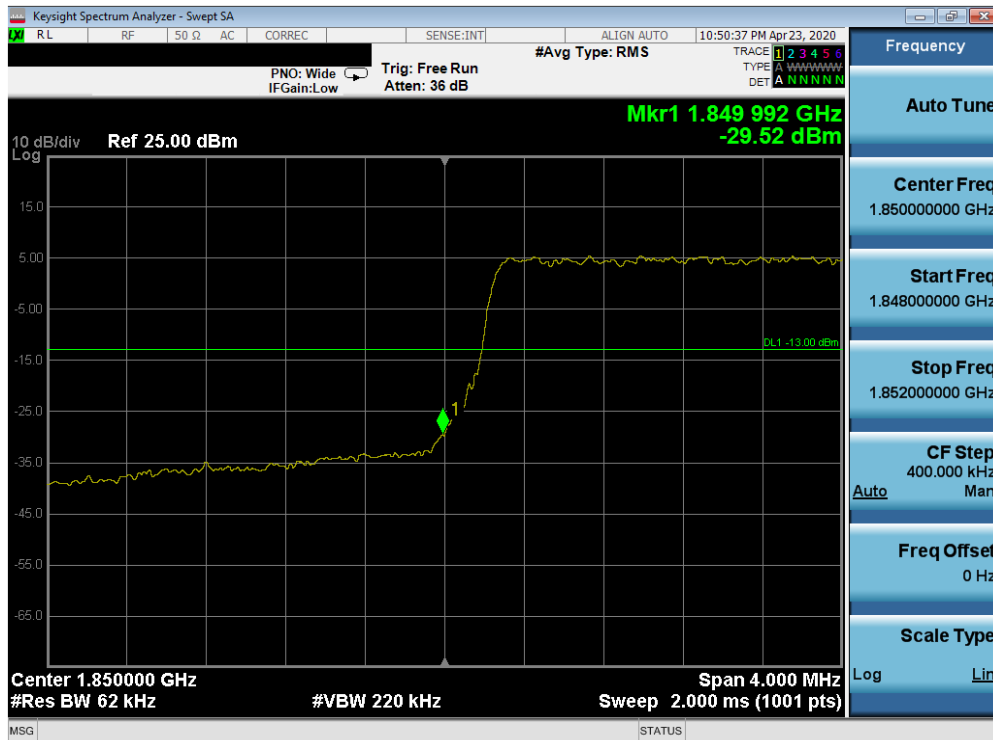


Plot 7-409. Upper Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

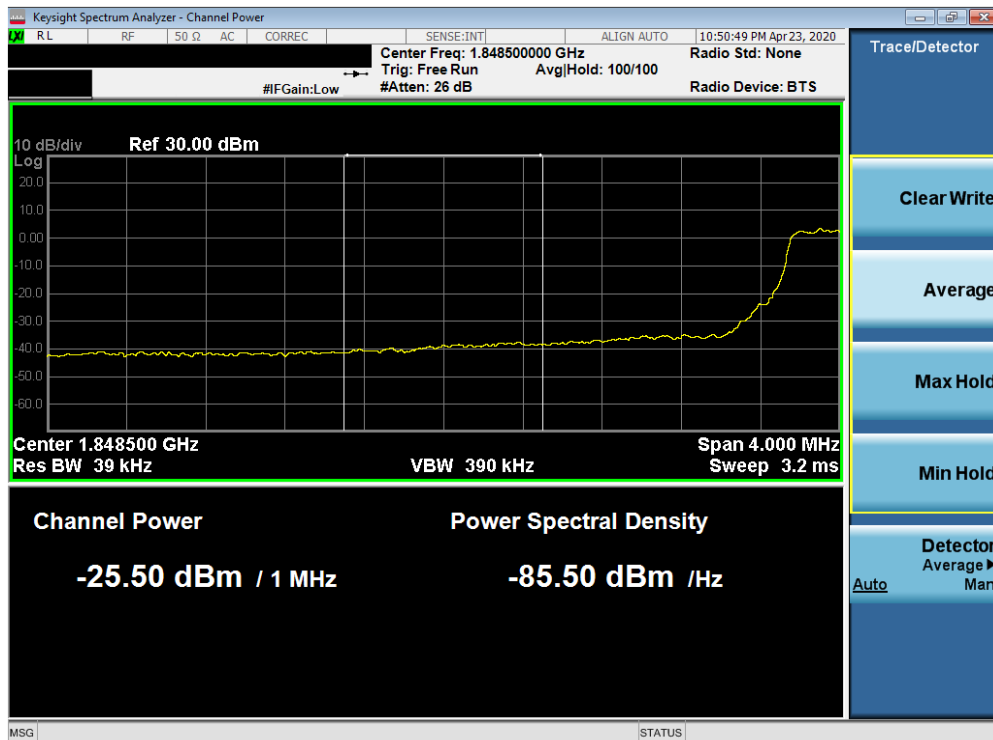


Plot 7-410. Upper Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 231 of 443

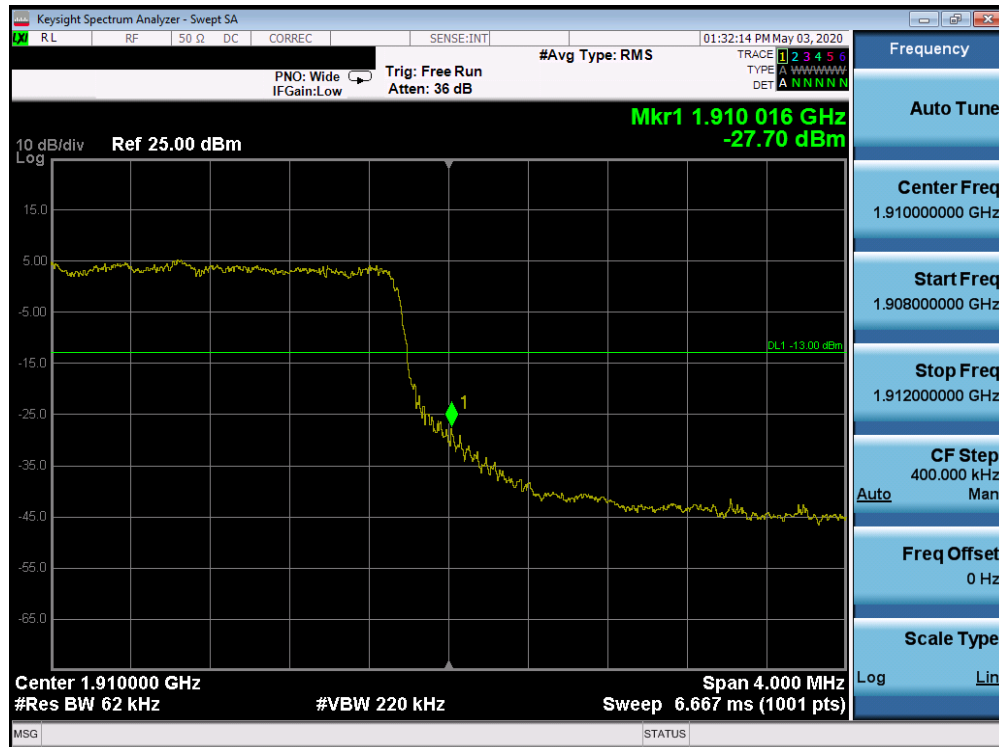


Plot 7-411. Lower Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

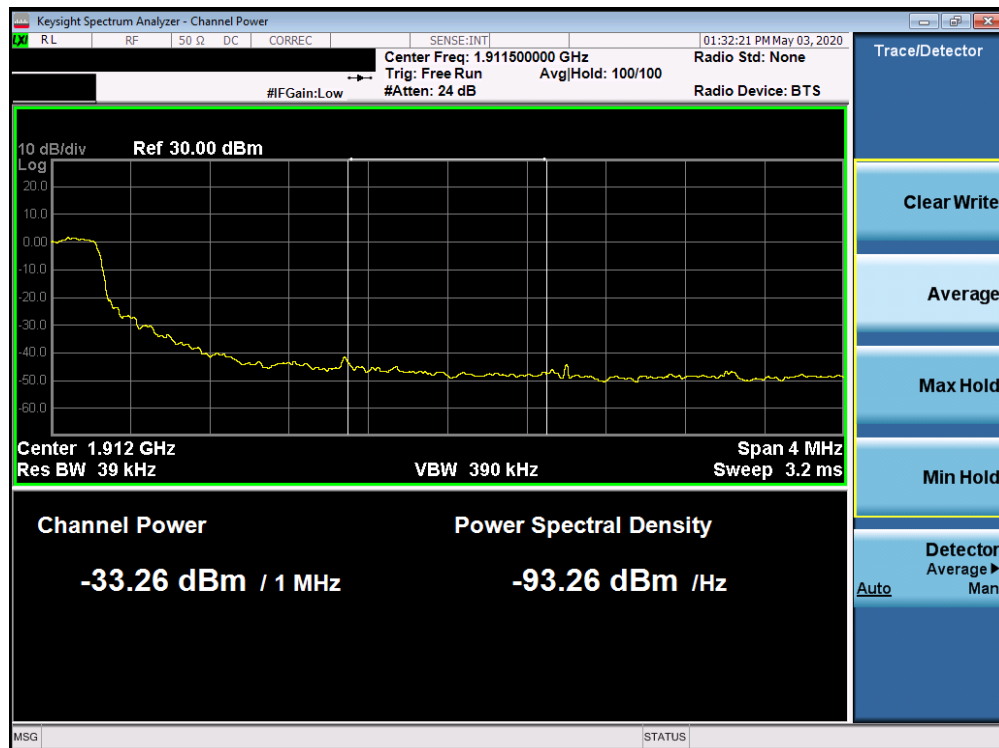


Plot 7-412. Lower Extended Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 232 of 443



Plot 7-413. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

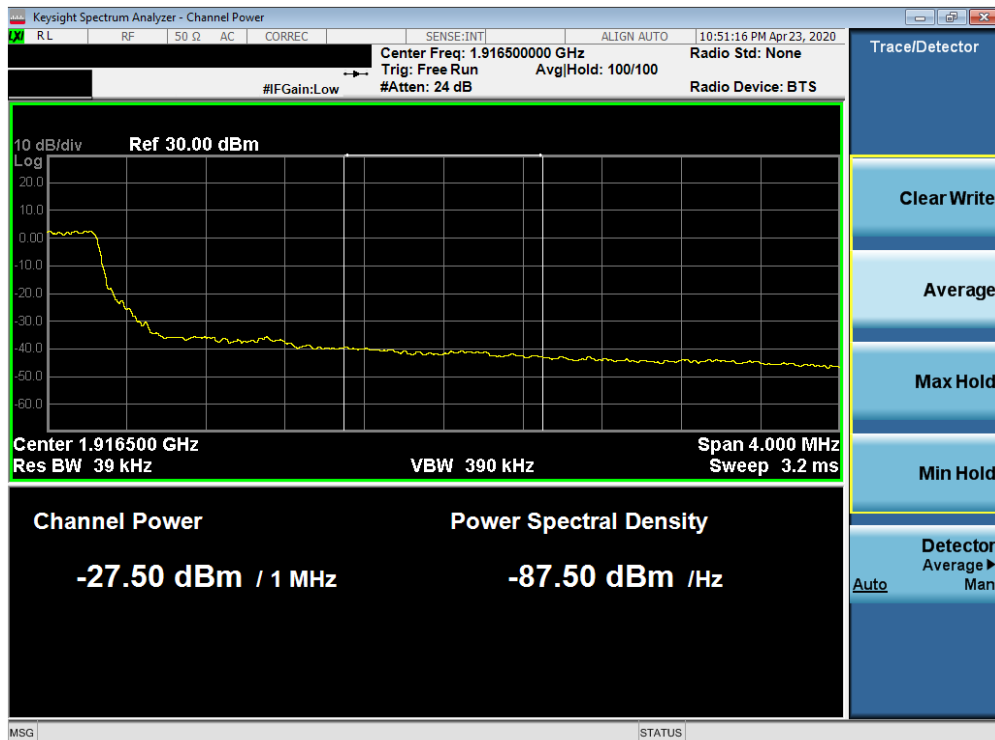


Plot 7-414. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 233 of 443

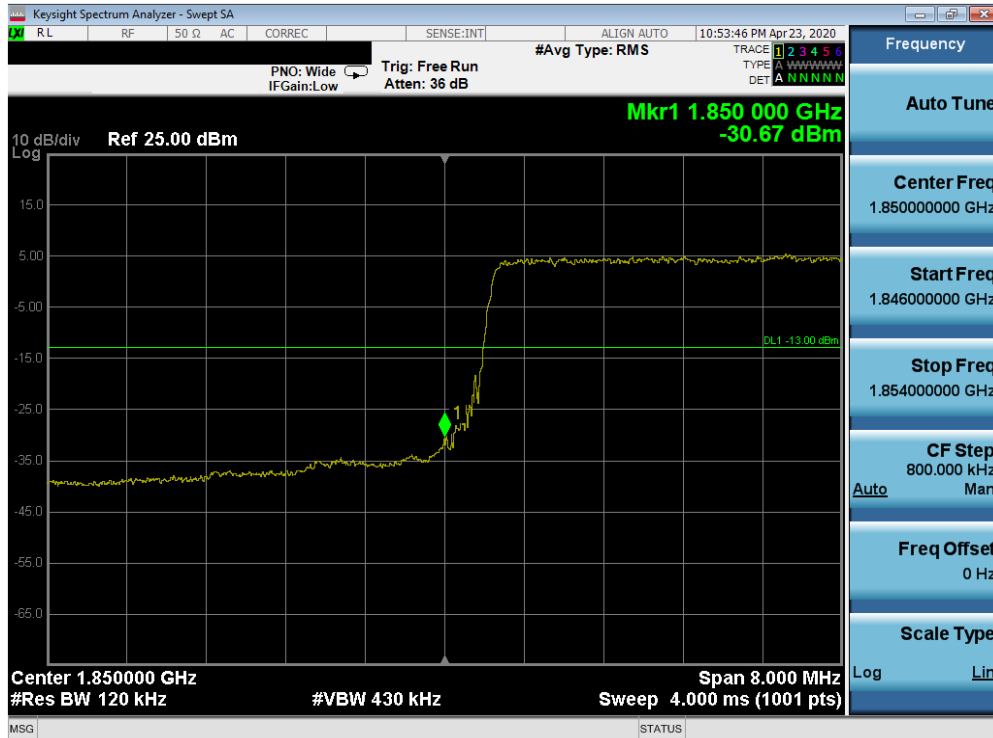


Plot 7-415. Upper Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

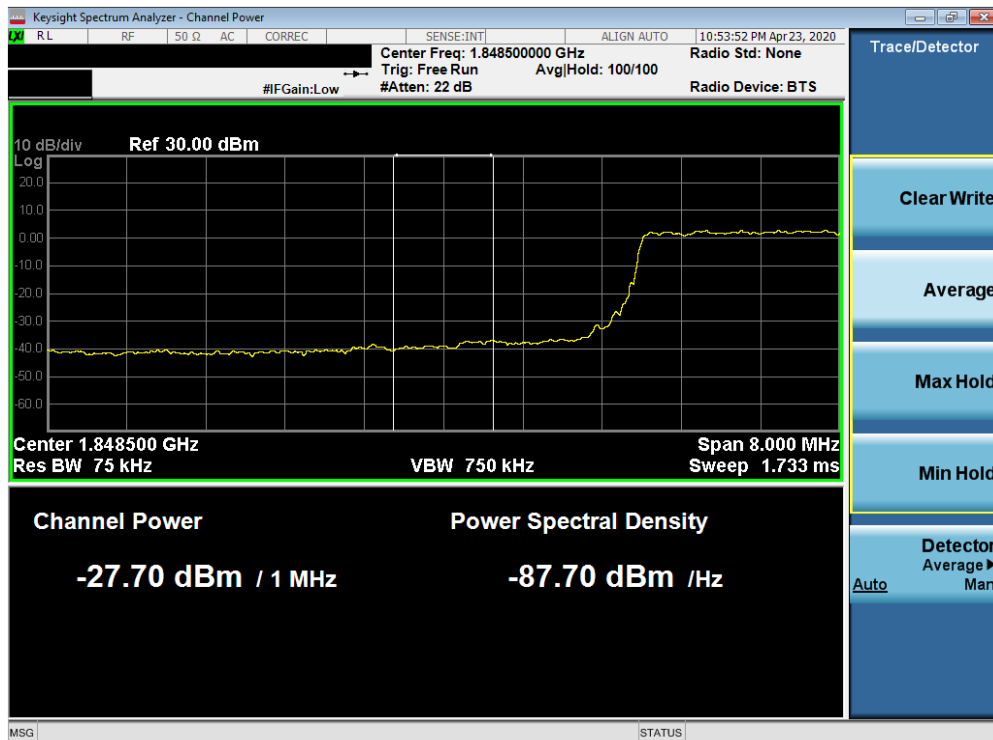


Plot 7-416. Upper Extended Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 234 of 443

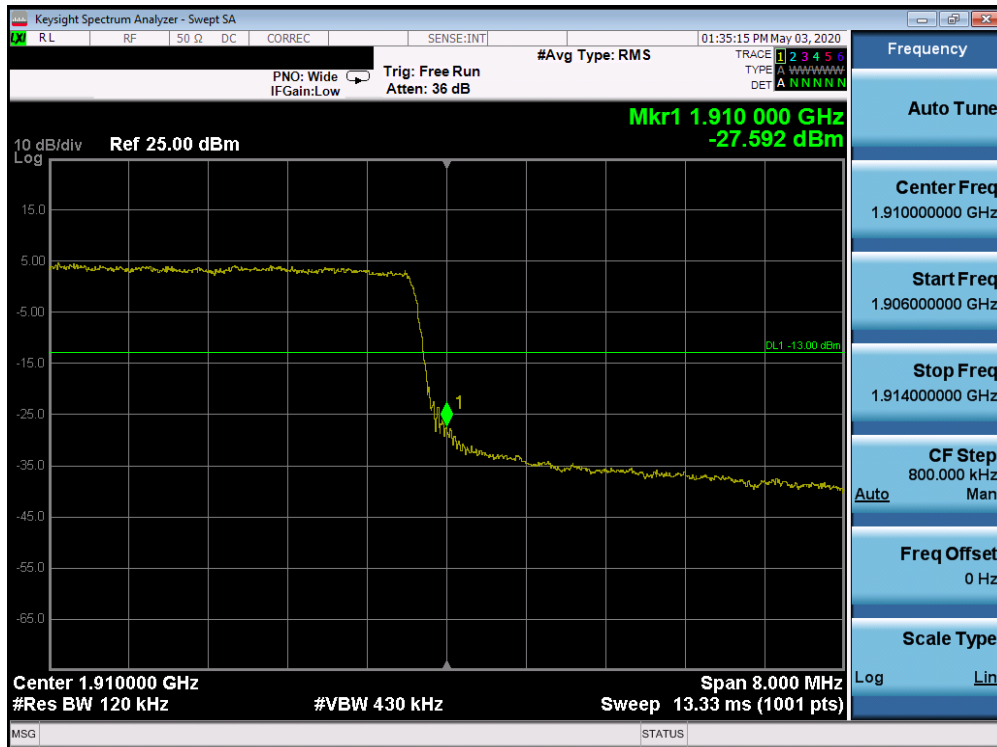


Plot 7-417. Lower Band Edge Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)

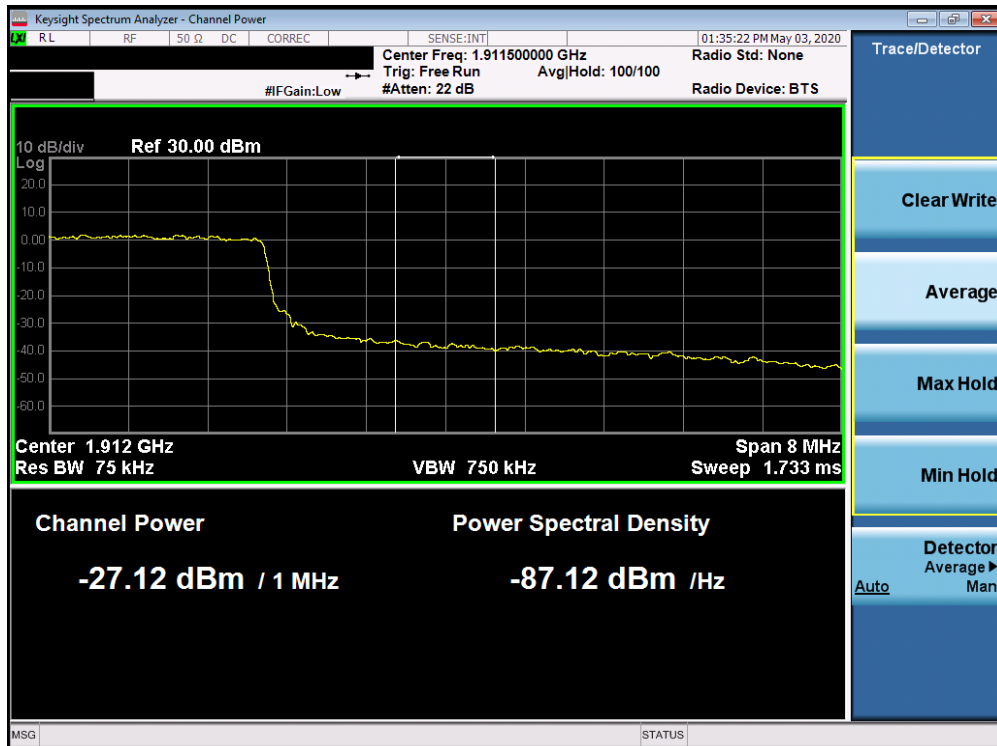


Plot 7-418. Lower Extended Band Edge Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 235 of 443

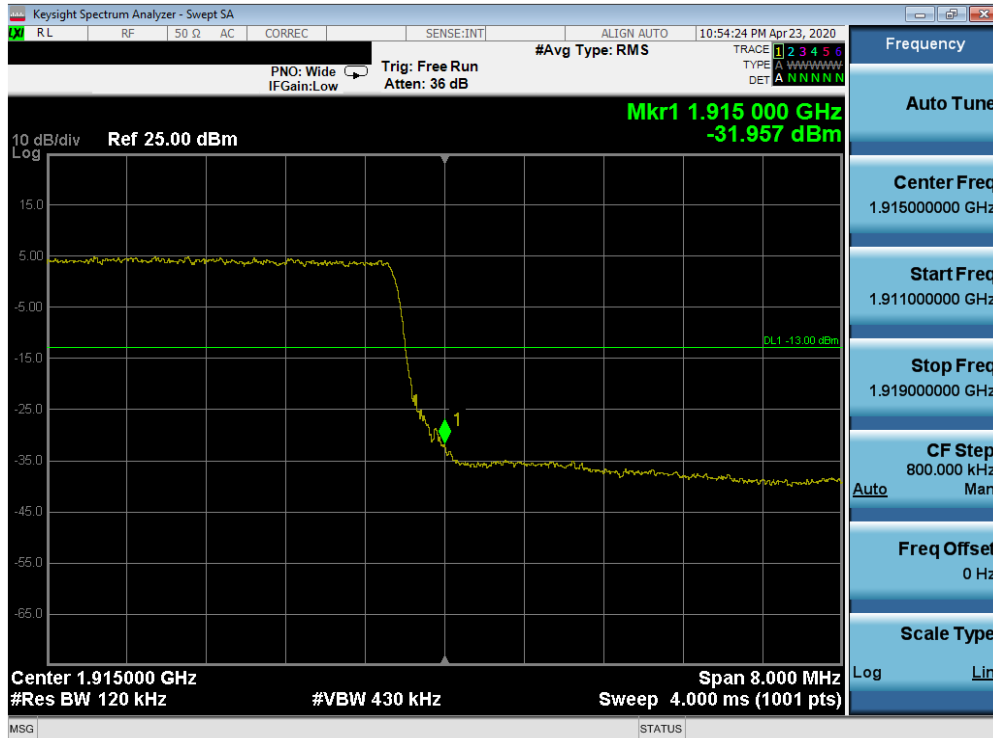


Plot 7-419. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

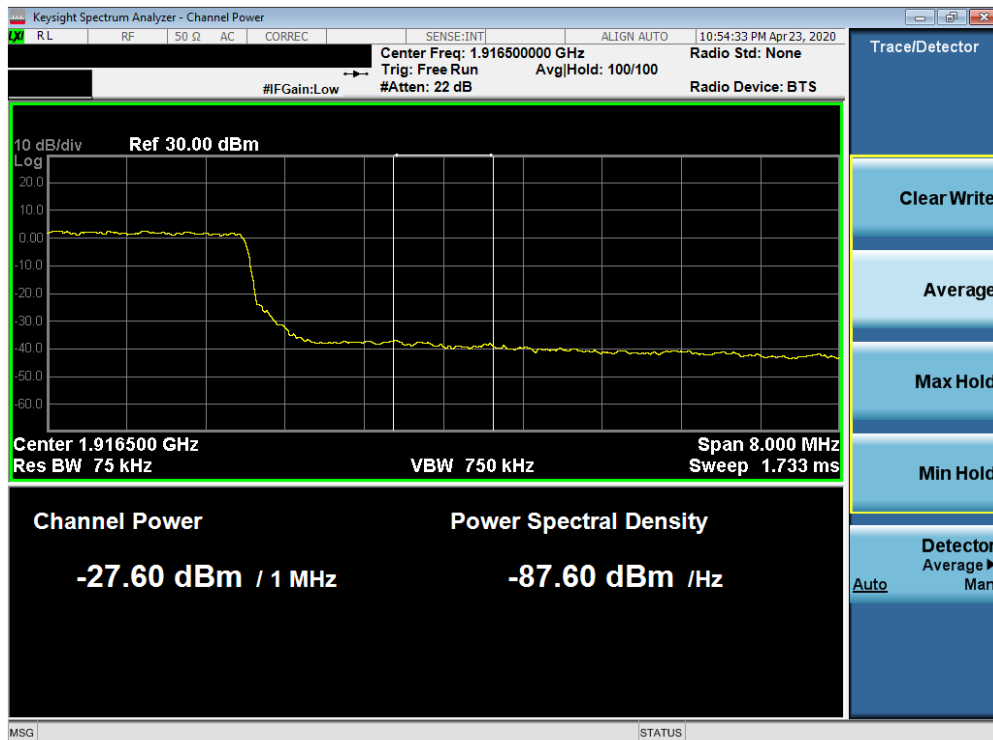


Plot 7-420. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 236 of 443

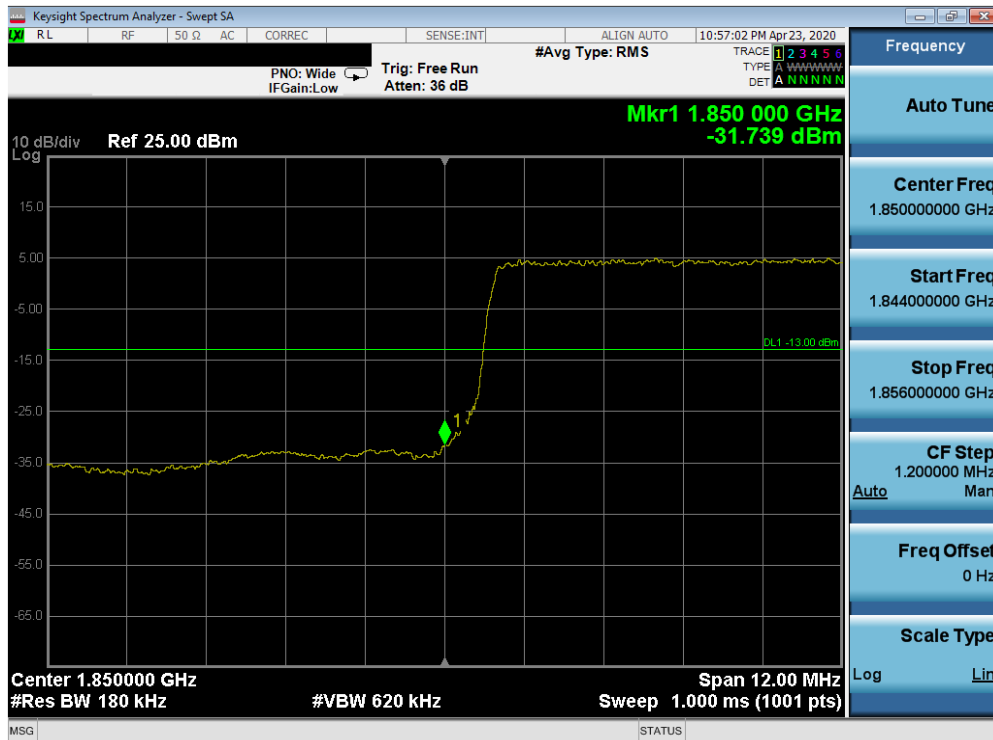


Plot 7-421. Upper Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

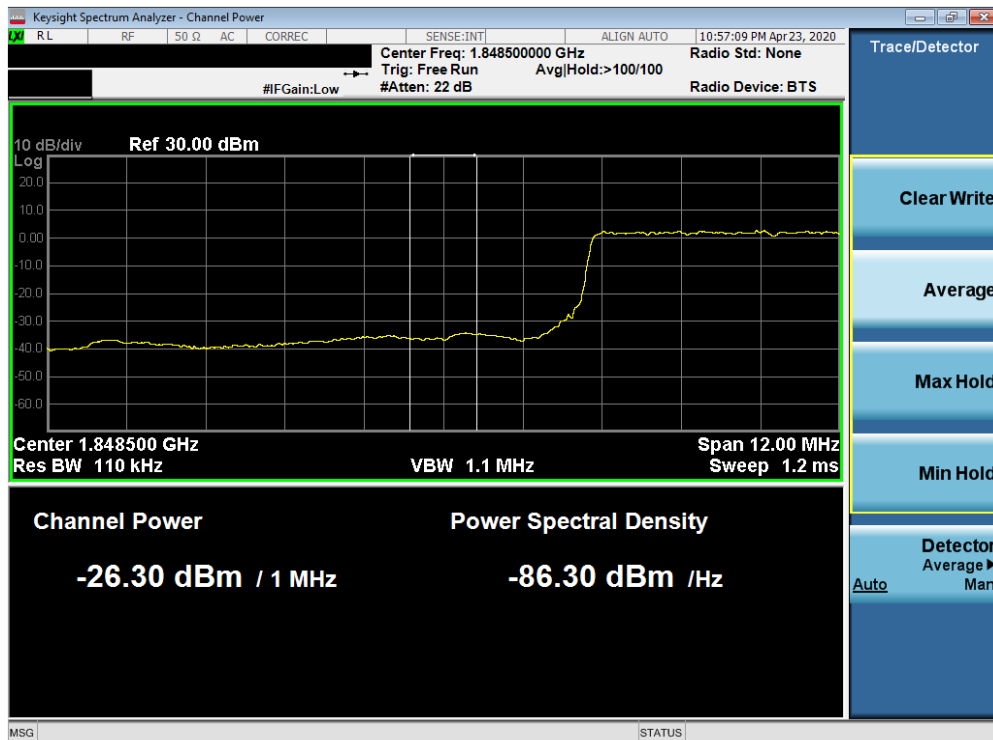


Plot 7-422. Upper Extended Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 237 of 443

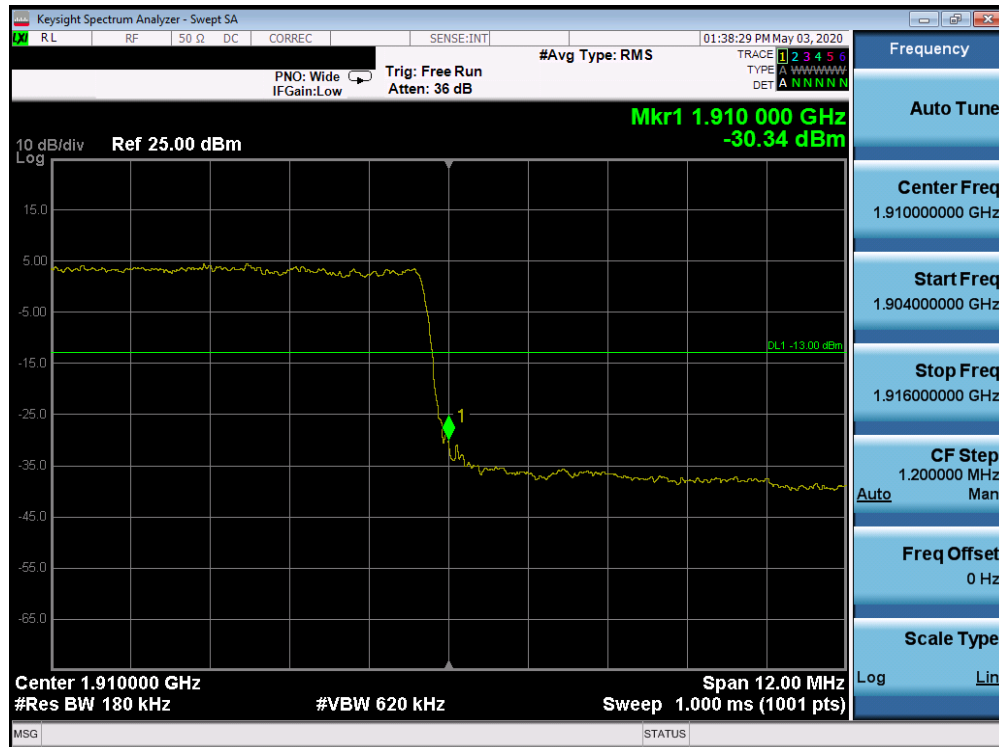


Plot 7-423. Lower Band Edge Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)

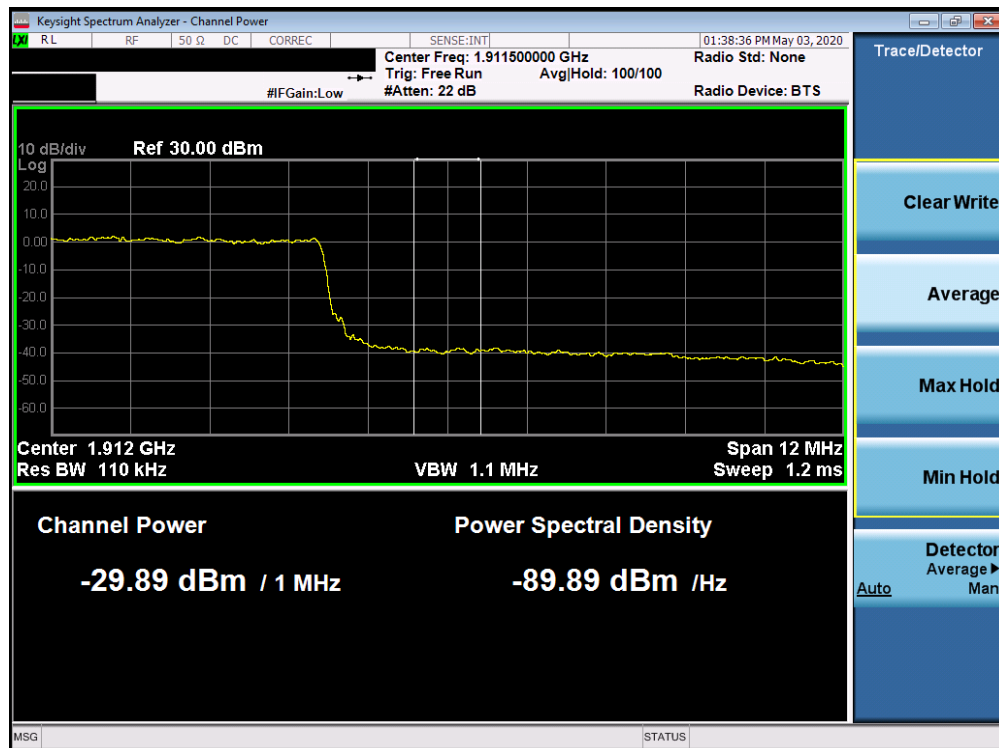


Plot 7-424. Lower Extended Band Edge Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 238 of 443

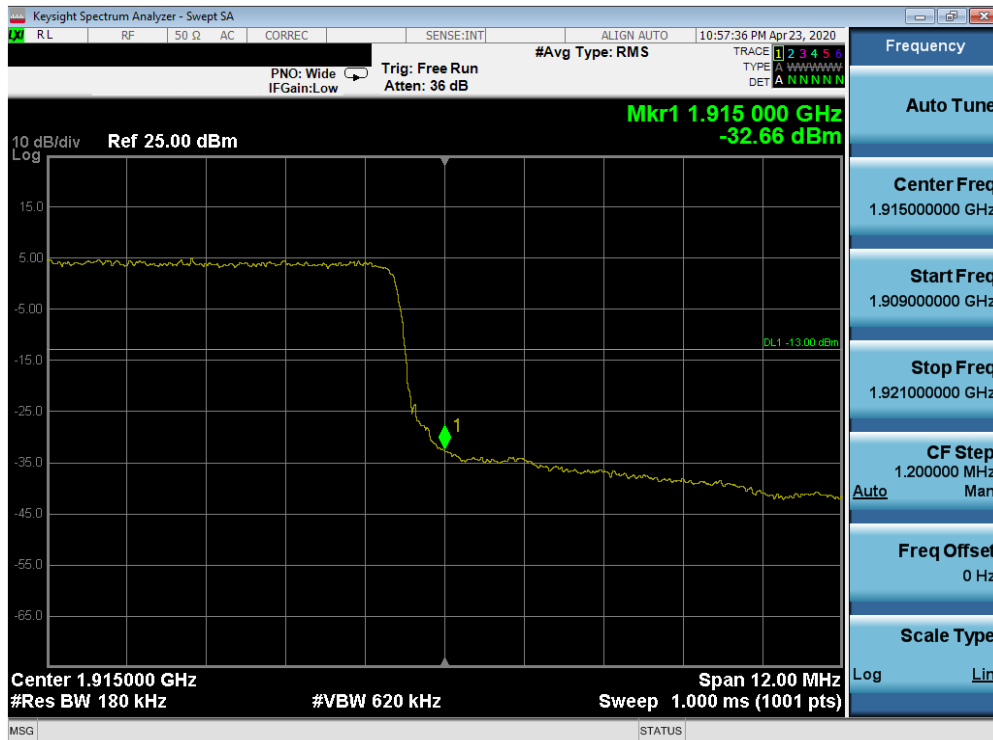


Plot 7-425. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

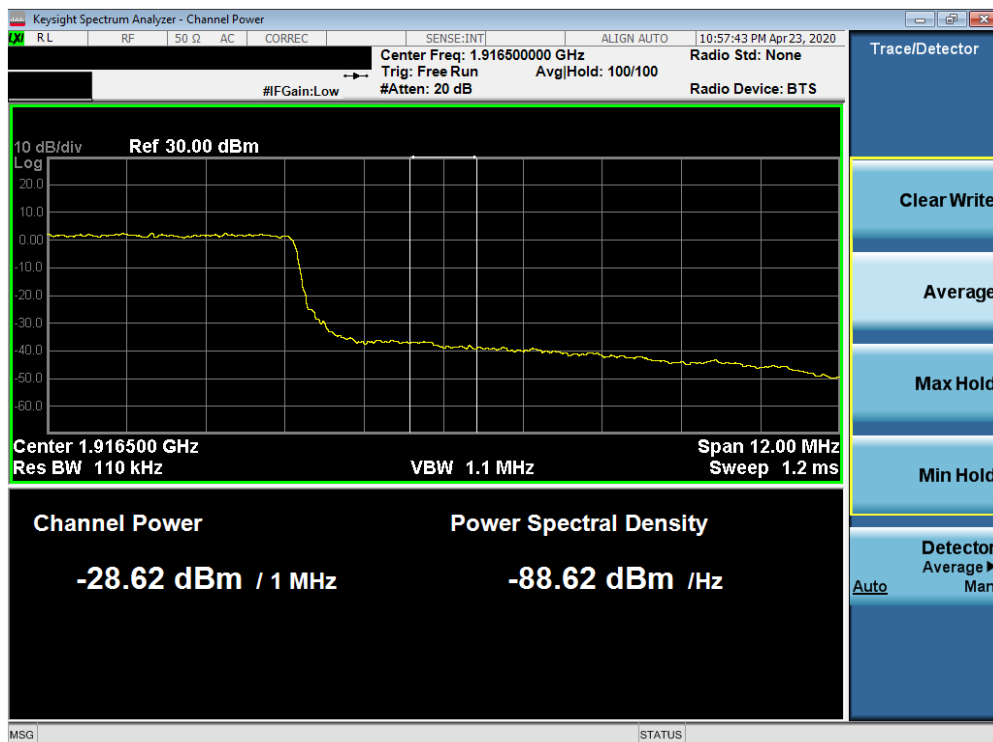


Plot 7-426. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 239 of 443

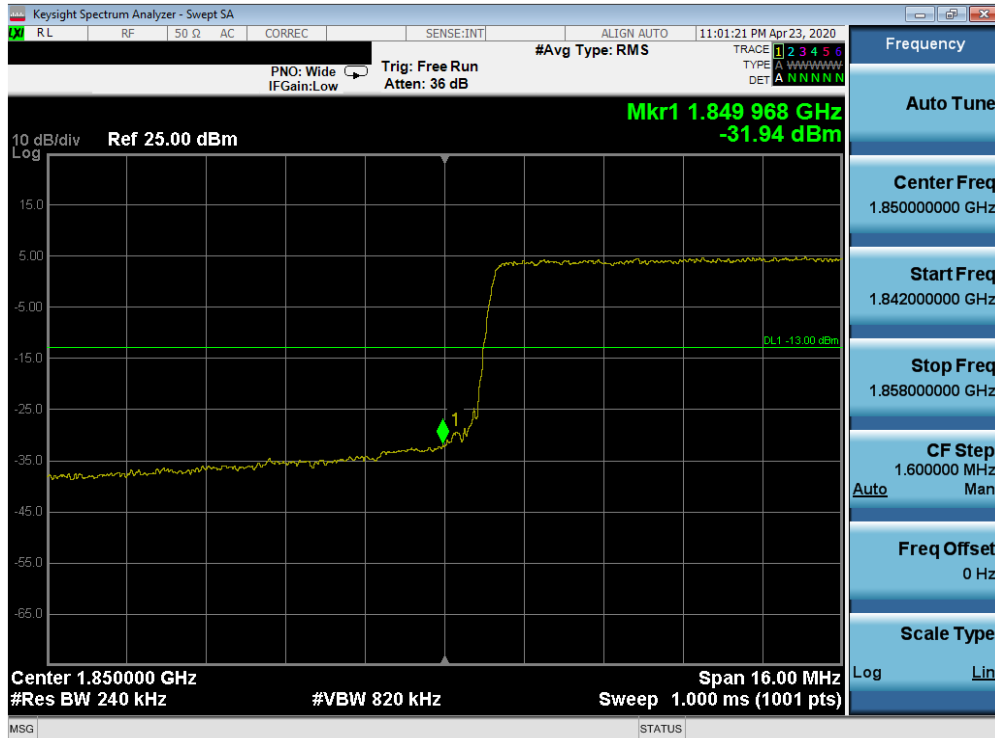


Plot 7-427. Upper Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

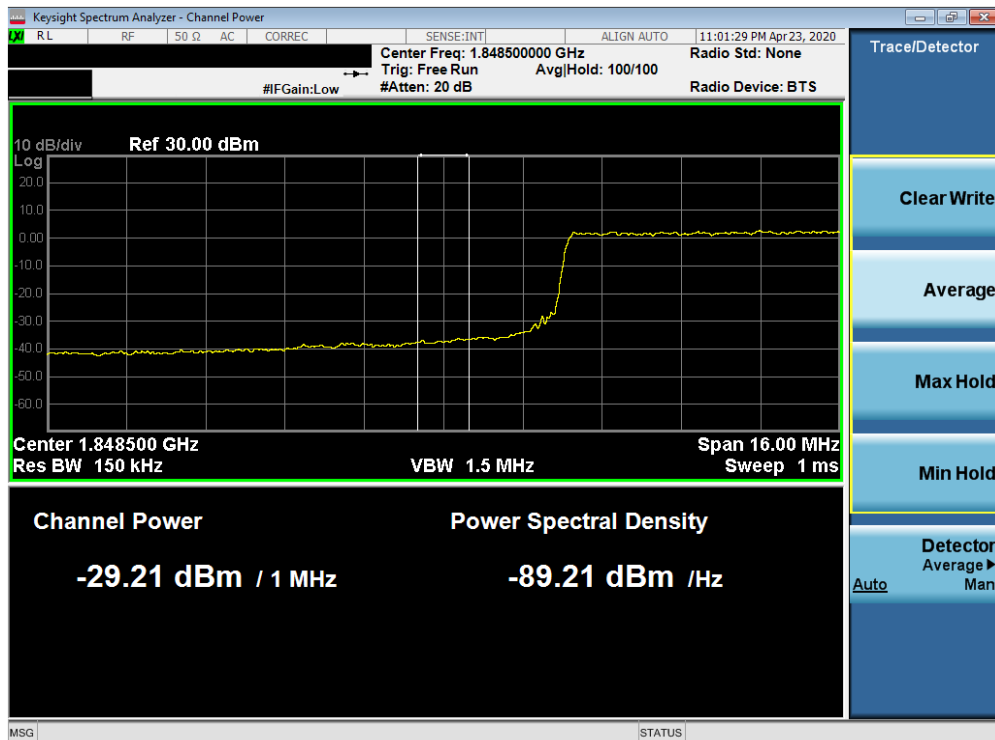


Plot 7-428. Upper Extended Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 240 of 443



Plot 7-429. Lower Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

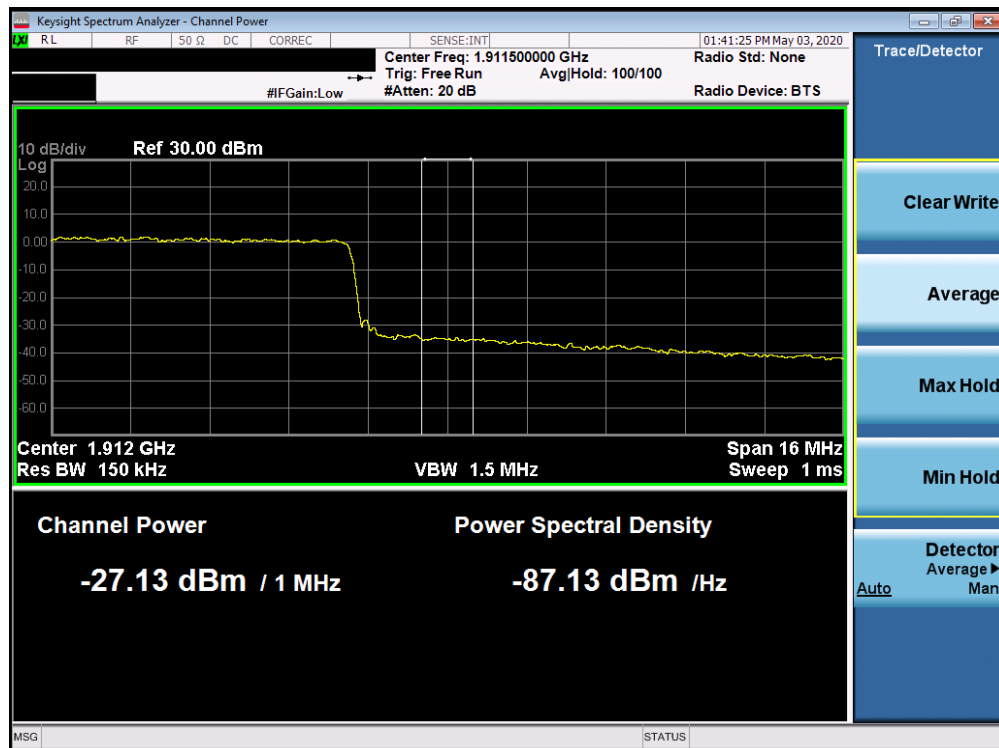


Plot 7-430. Lower Extended Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 241 of 443



Plot 7-431. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

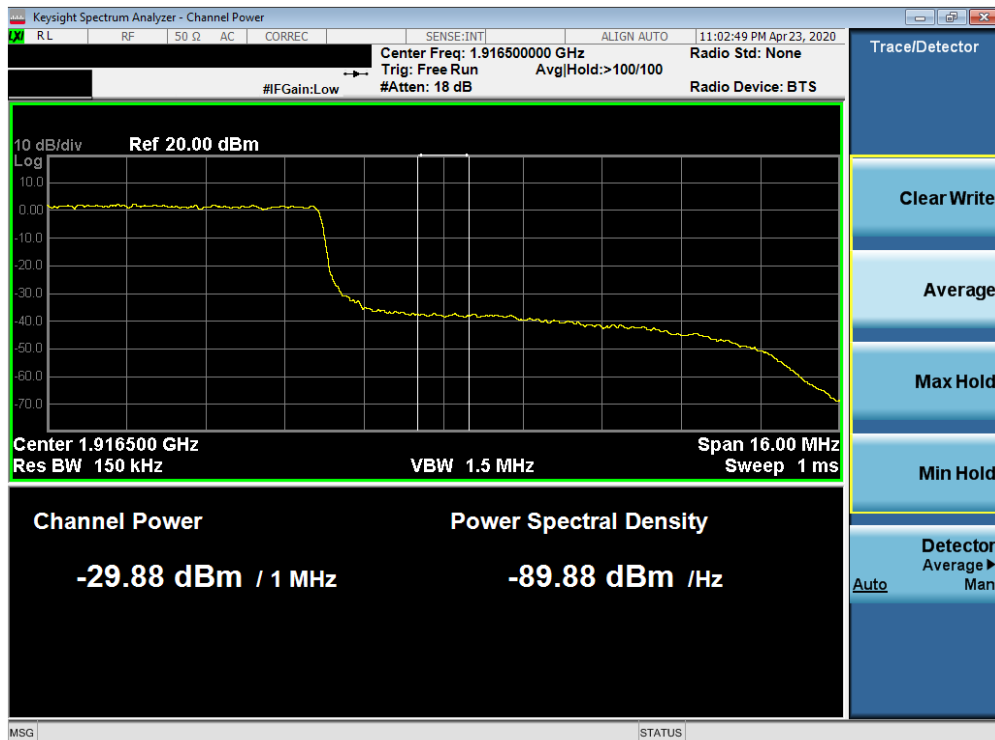


Plot 7-432. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 242 of 443



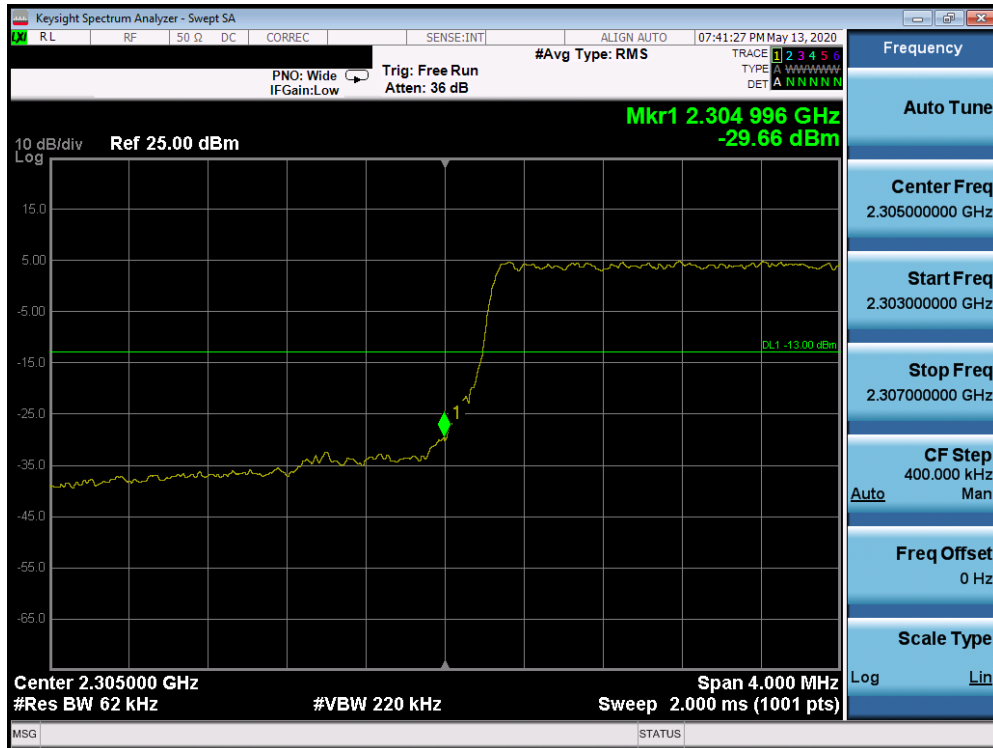
Plot 7-433. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-434. Upper Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 243 of 443

Band 30



Plot 7-435. Lower Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-436. Lower Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 244 of 443

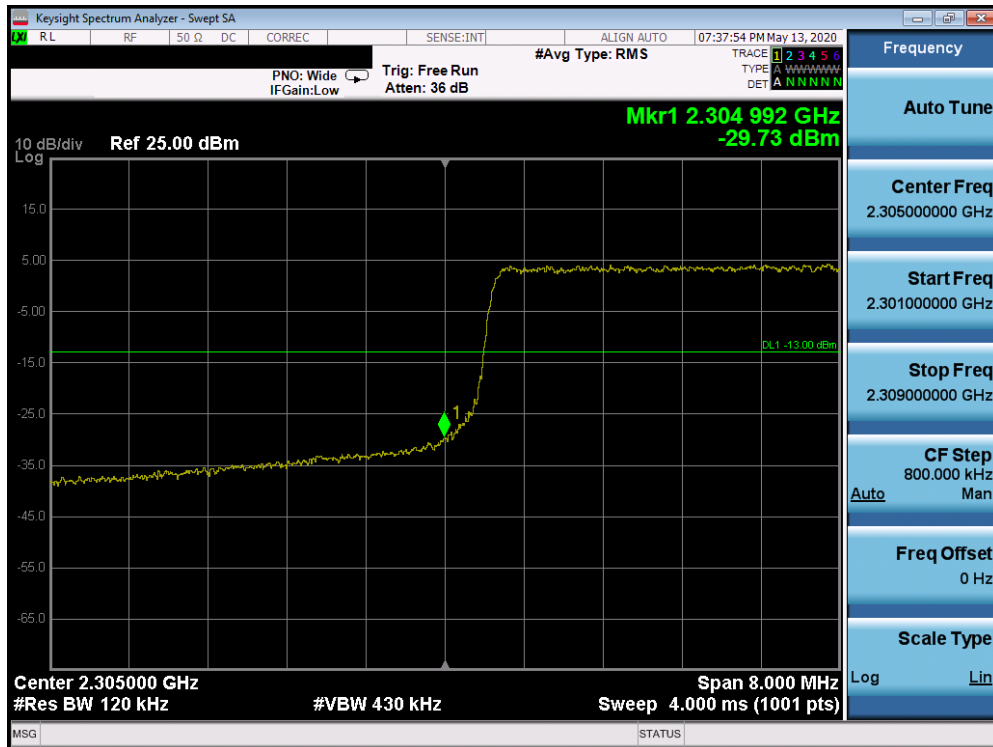


Plot 7-437. Upper Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-438. Upper Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 245 of 443



Plot 7-439. Lower Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-440. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 246 of 443



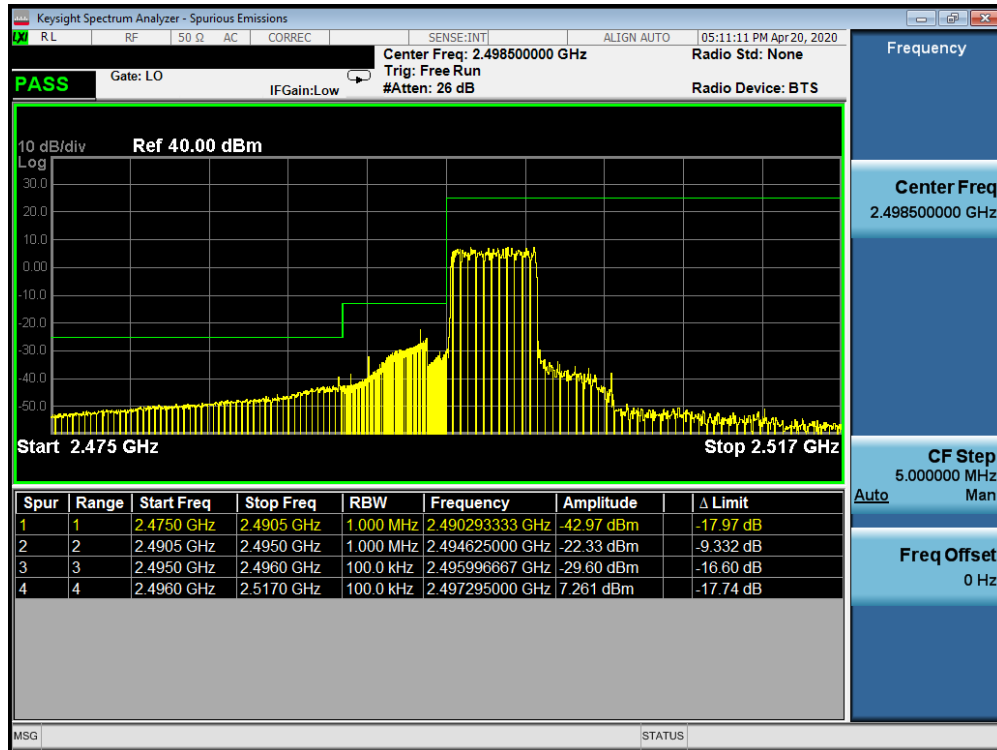
Plot 7-441. Upper Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



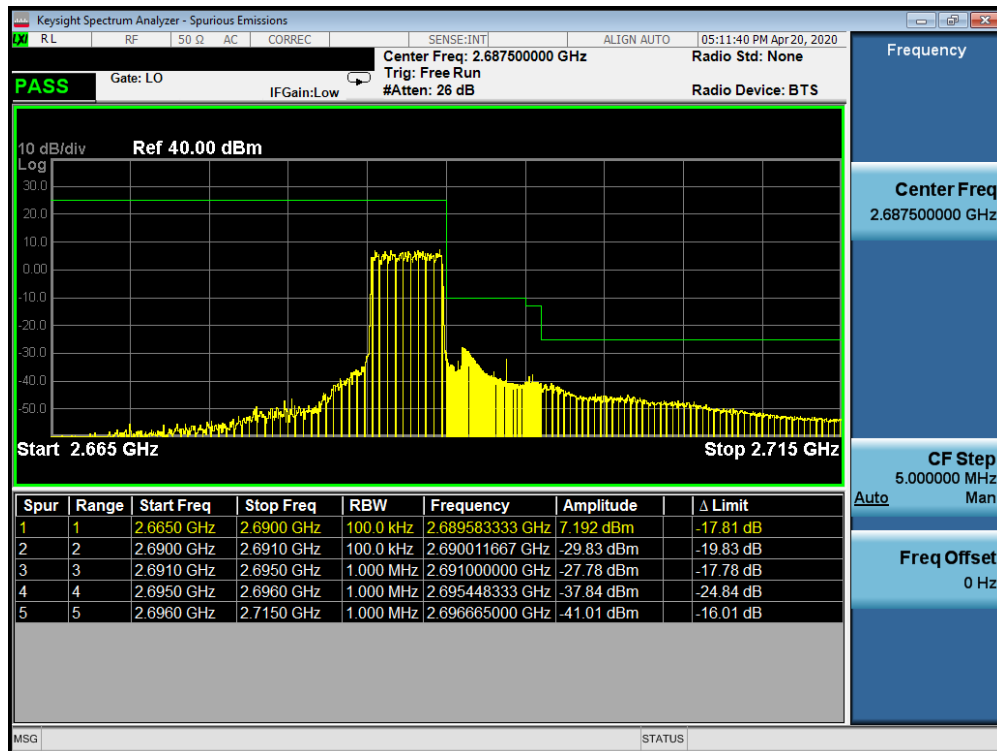
Plot 7-442. Upper Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 247 of 443

Band 41 PC3

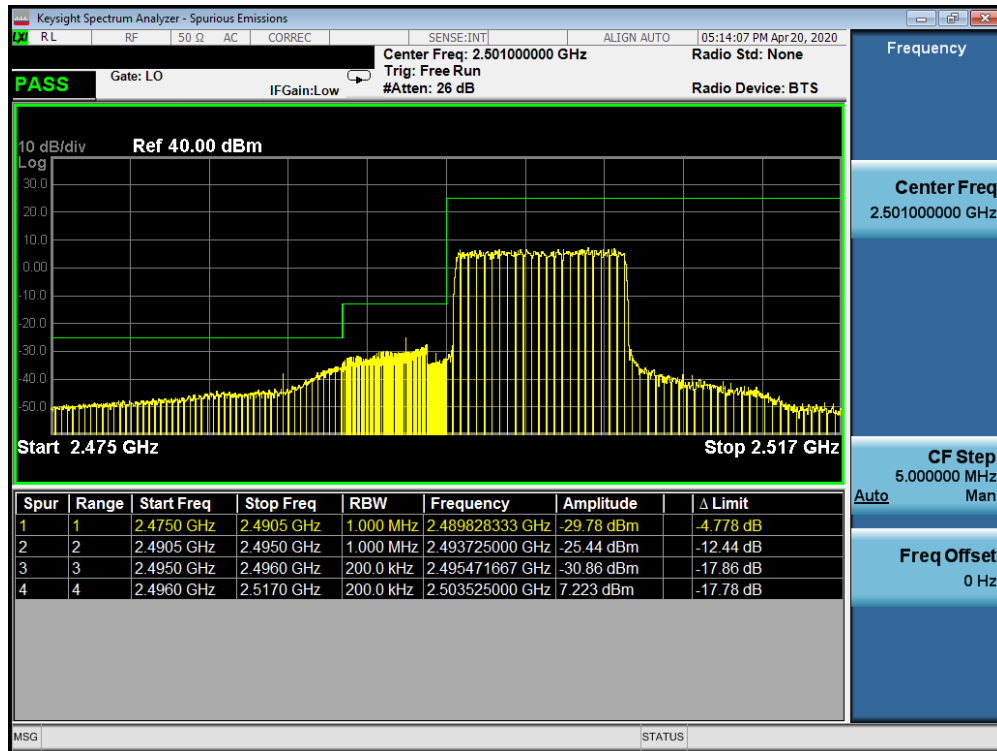


Plot 7-443. Lower ACP Plot at 2496 MHz (Band 41 PC3- 5.0MHz QPSK - Full RB Configuration)

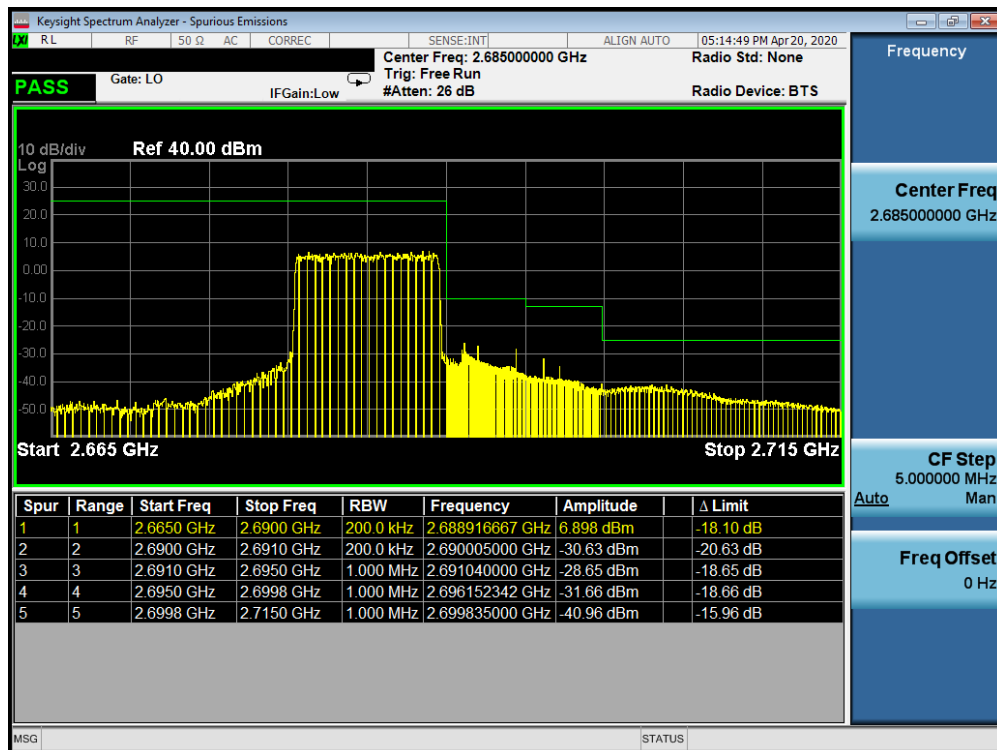


Plot 7-444. Upper ACP Plot (Band 41 PC3- 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 248 of 443

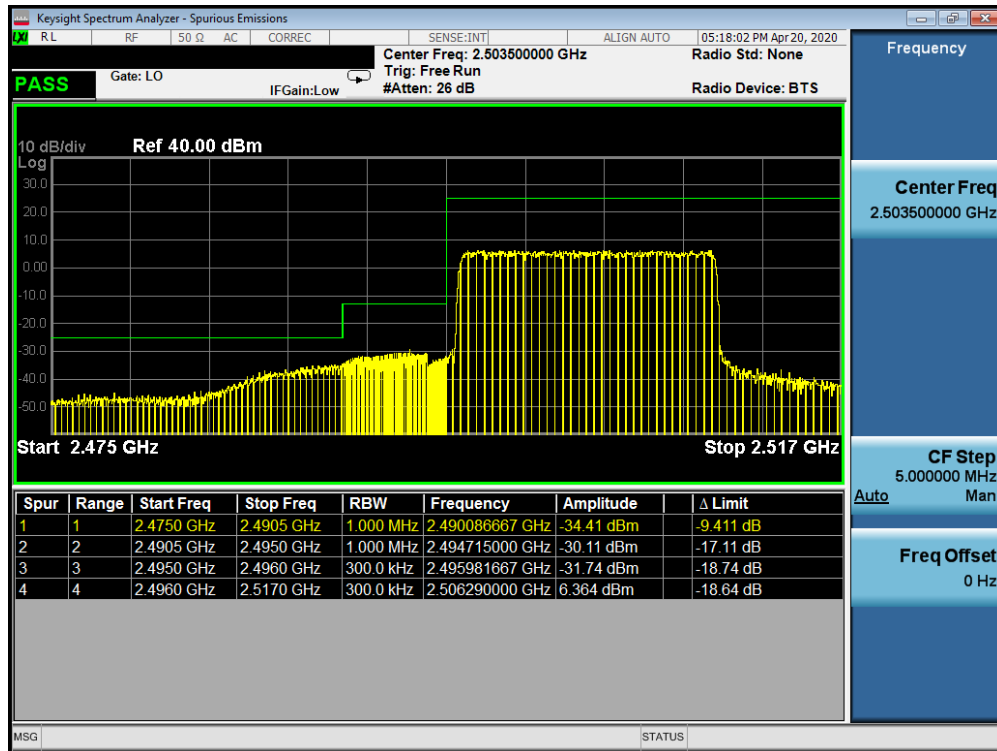


Plot 7-445. Lower ACP Plot at 2496 MHz (Band 41 PC3- 10.0MHz QPSK - Full RB Configuration)

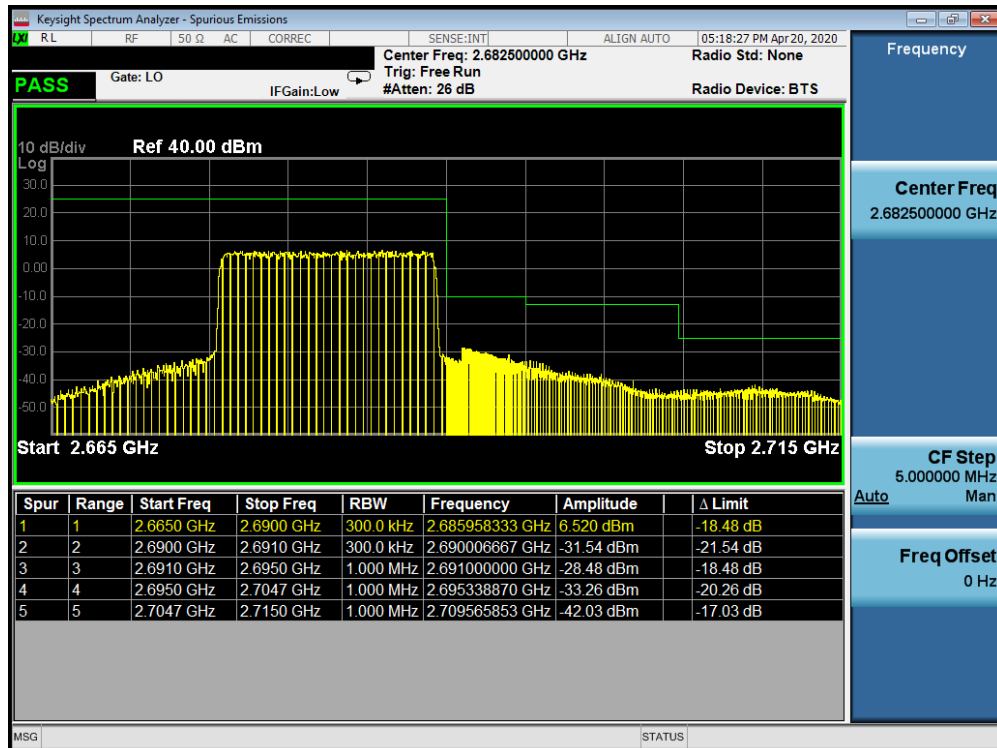


Plot 7-446. Upper ACP Plot (Band 41 PC3- 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 249 of 443

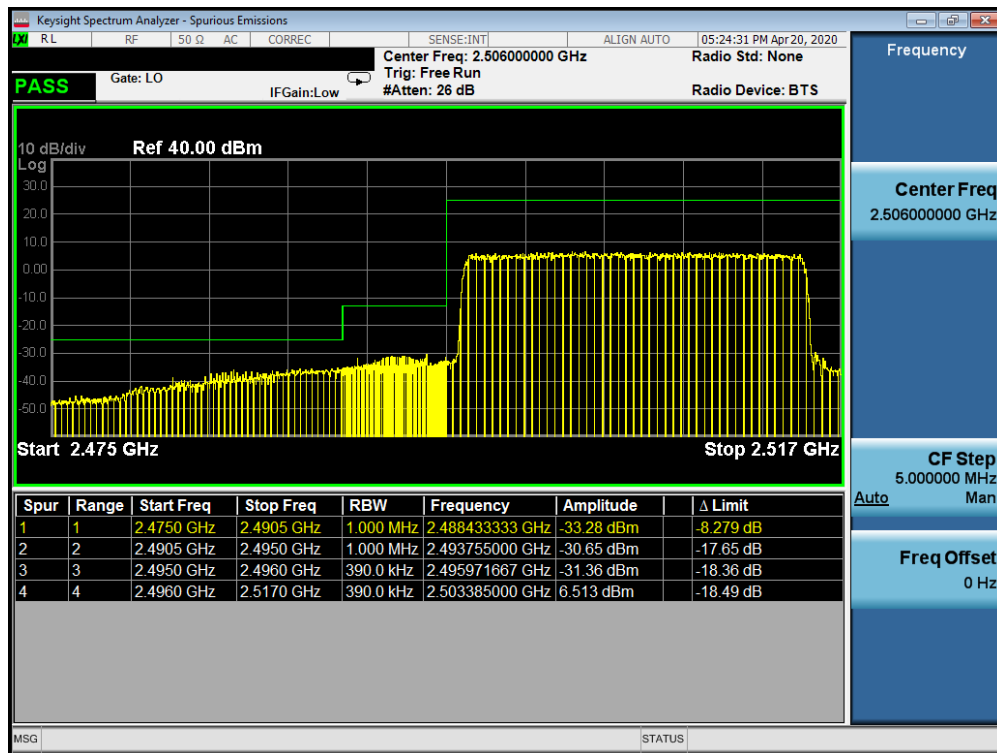


Plot 7-447. Lower ACP Plot at 2496 MHz (Band 41 PC3- 15.0MHz QPSK - Full RB Configuration)

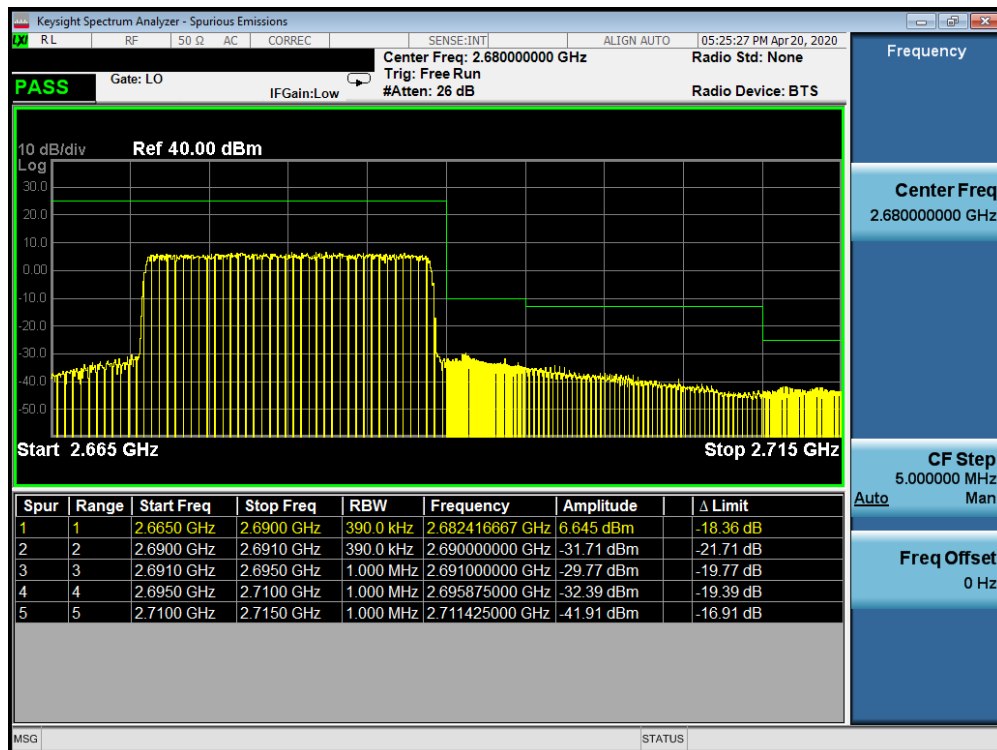


Plot 7-448. Upper ACP Plot (Band 41 PC3- 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 250 of 443



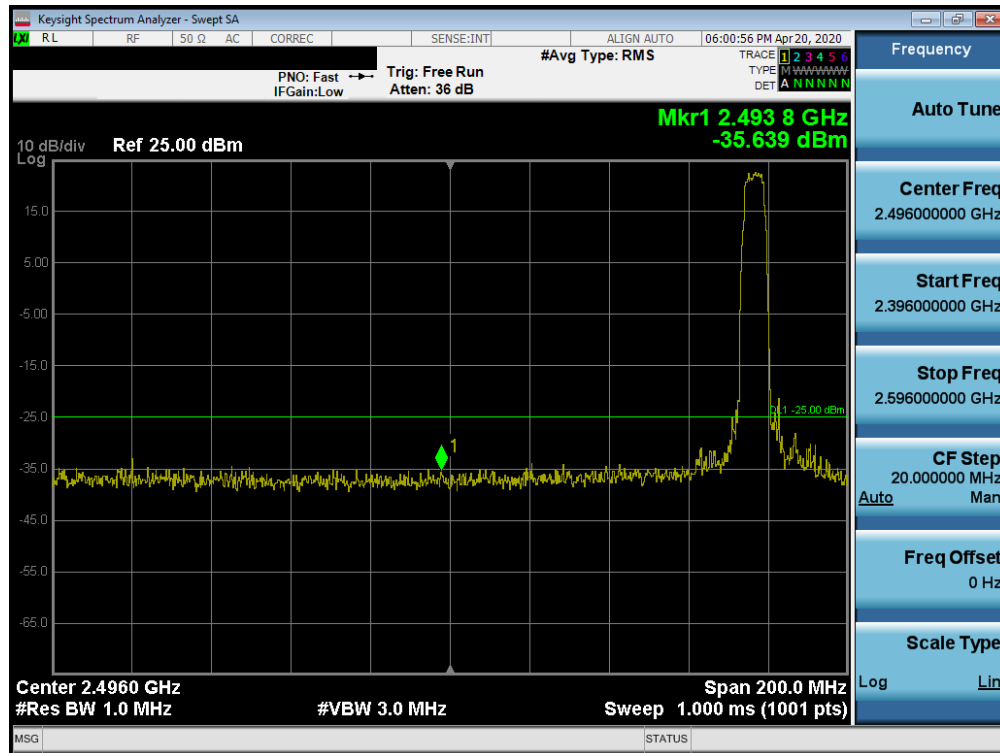
Plot 7-449. Lower ACP Plot at 2496 MHz (Band 41 PC3 - 20.0MHz QPSK - Full RB Configuration)



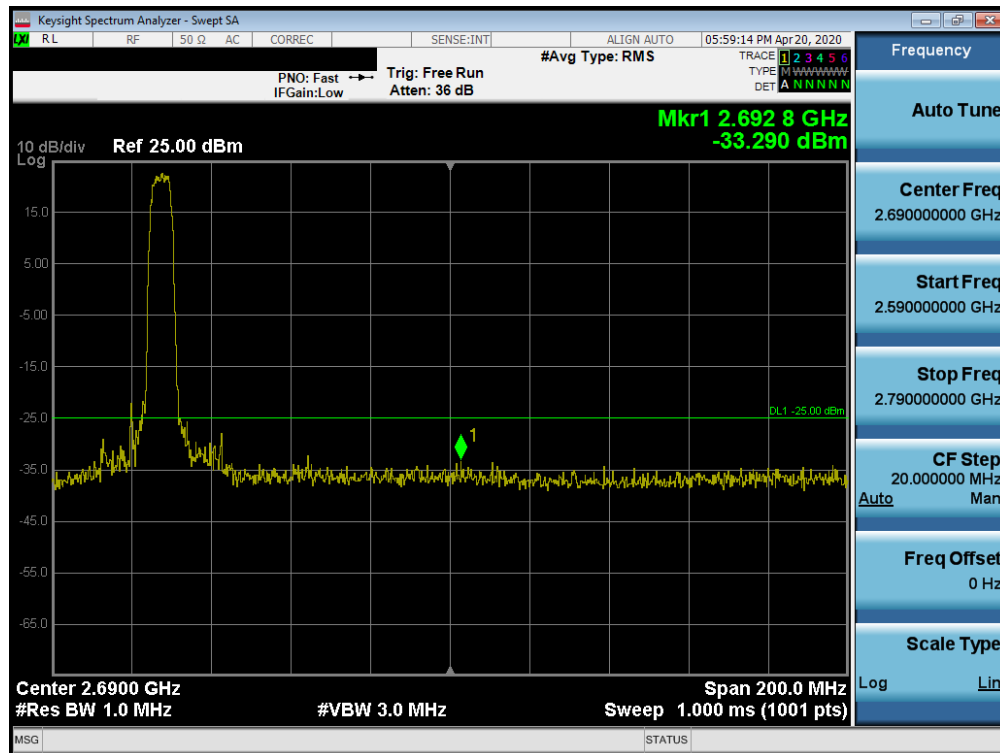
Plot 7-450. Upper ACP Plot (Band 41 PC3 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 251 of 443

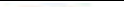
Band 38

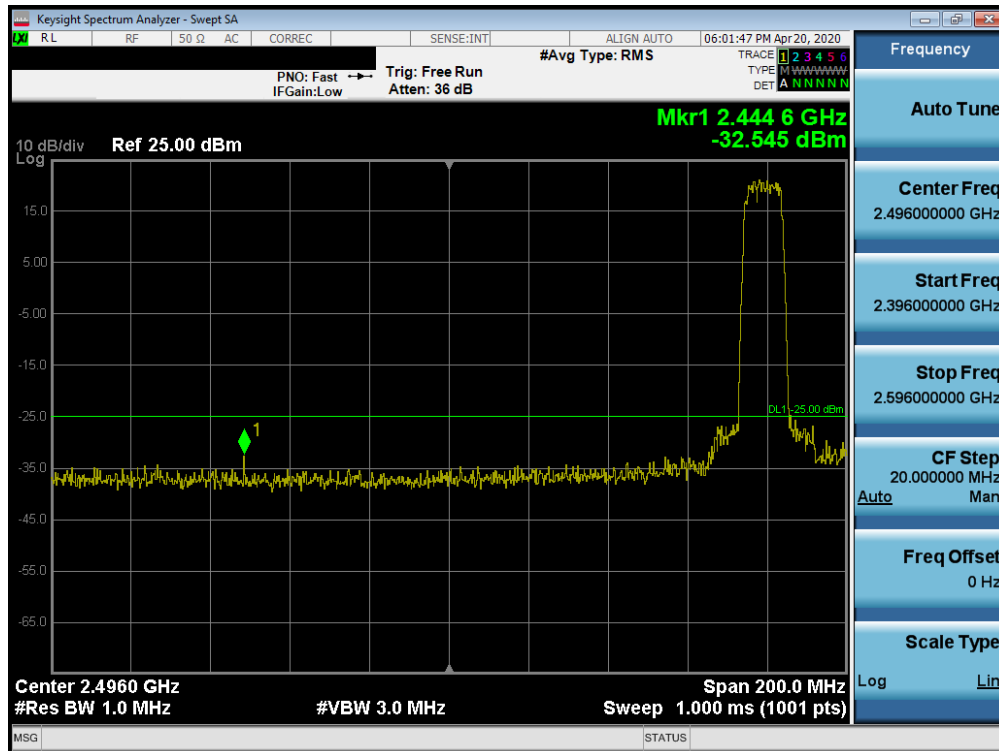


Plot 7-451. Lower Band Edge Plot (Band 38 - 5.0MHz QPSK - Full RB Configuration)

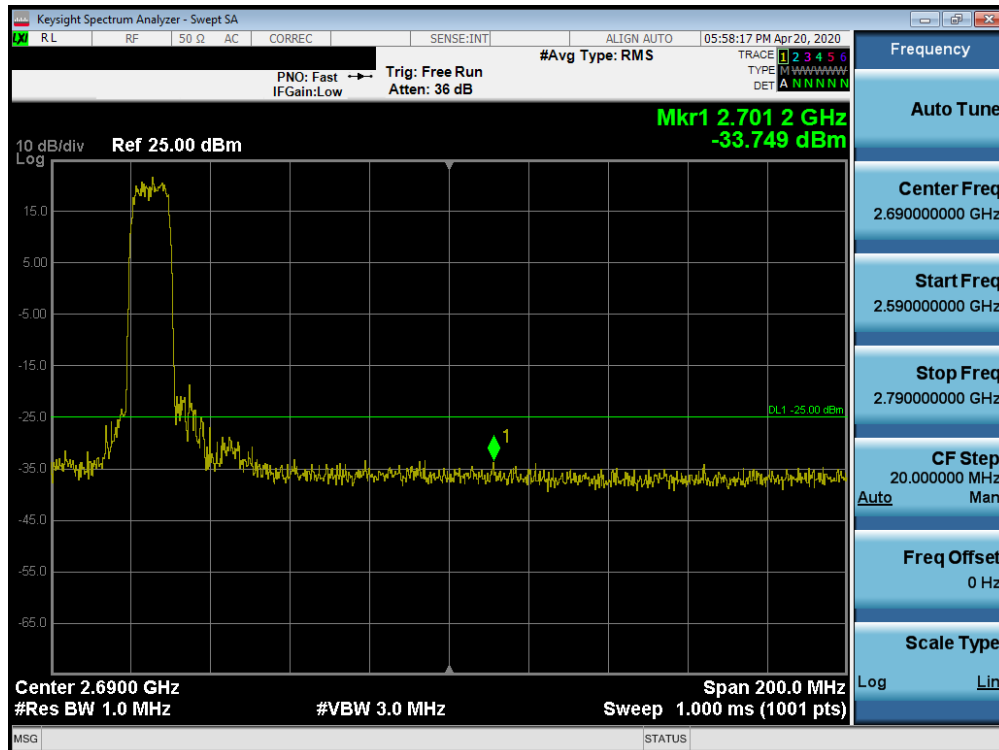


Plot 7-452. Upper Band Edge Plot (Band 38 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset	Page 252 of 443

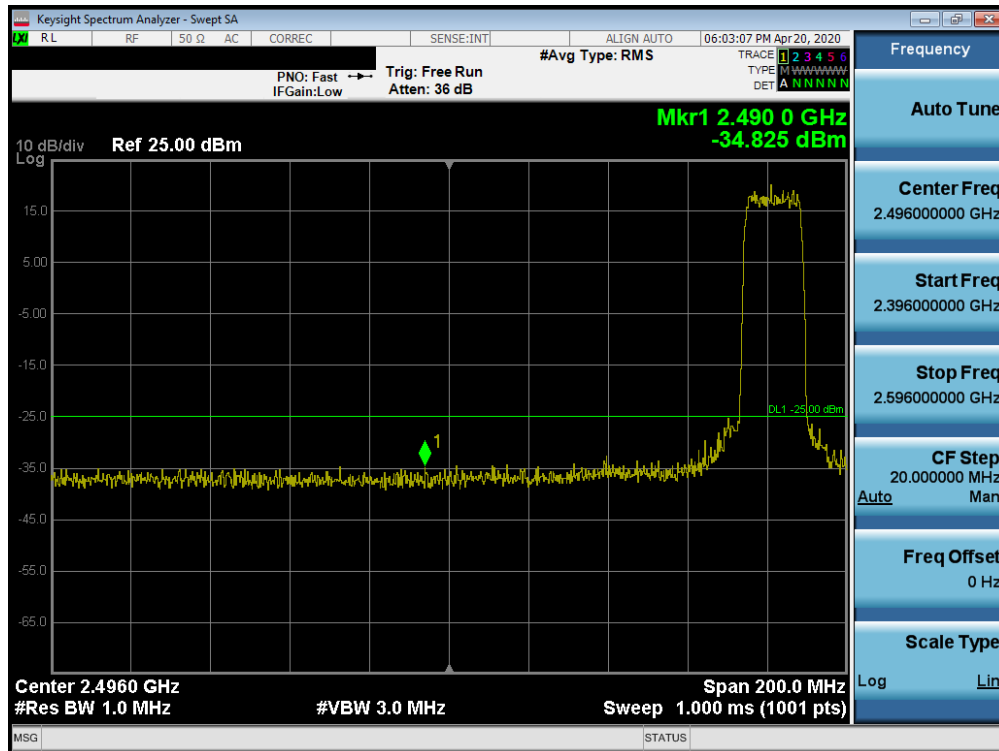


Plot 7-453. Lower Band Edge Plot (Band 38 - 10.0MHz QPSK - Full RB Configuration)

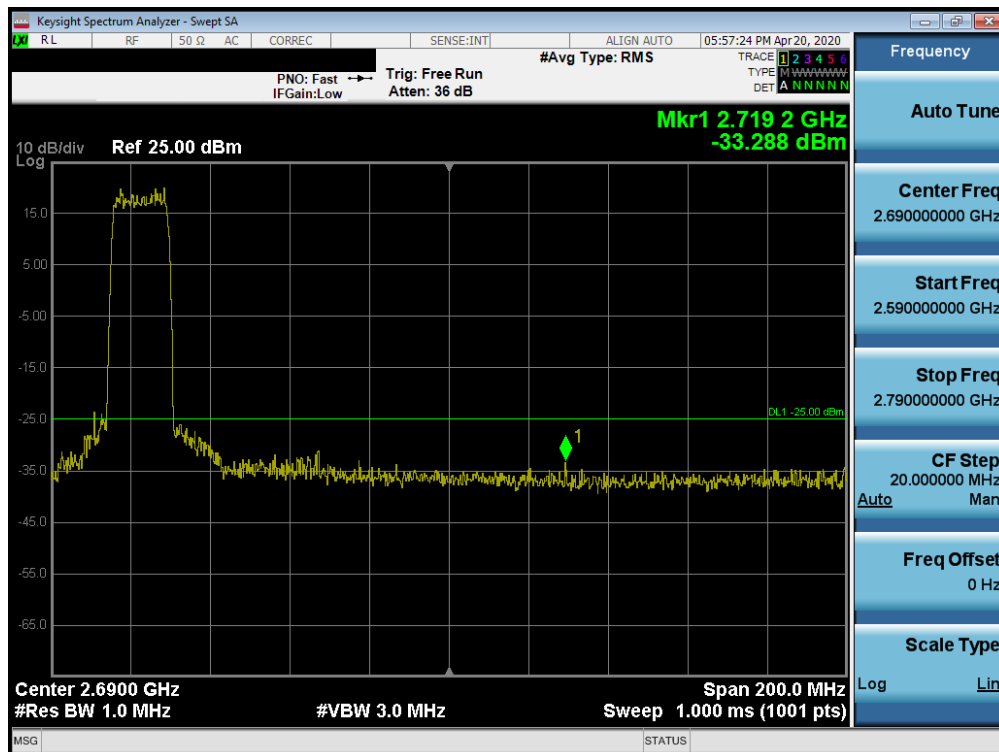


Plot 7-454. Upper Band Edge Plot (Band 38 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 253 of 443

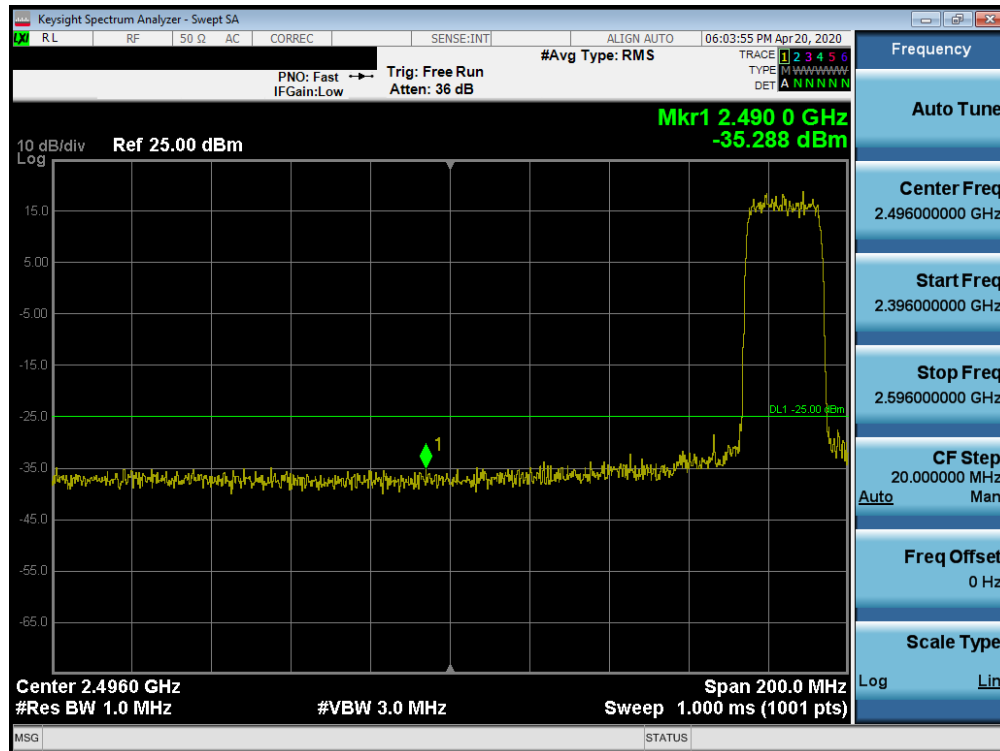


Plot 7-455. Lower Band Edge Plot (Band 38 - 15.0MHz QPSK - Full RB Configuration)

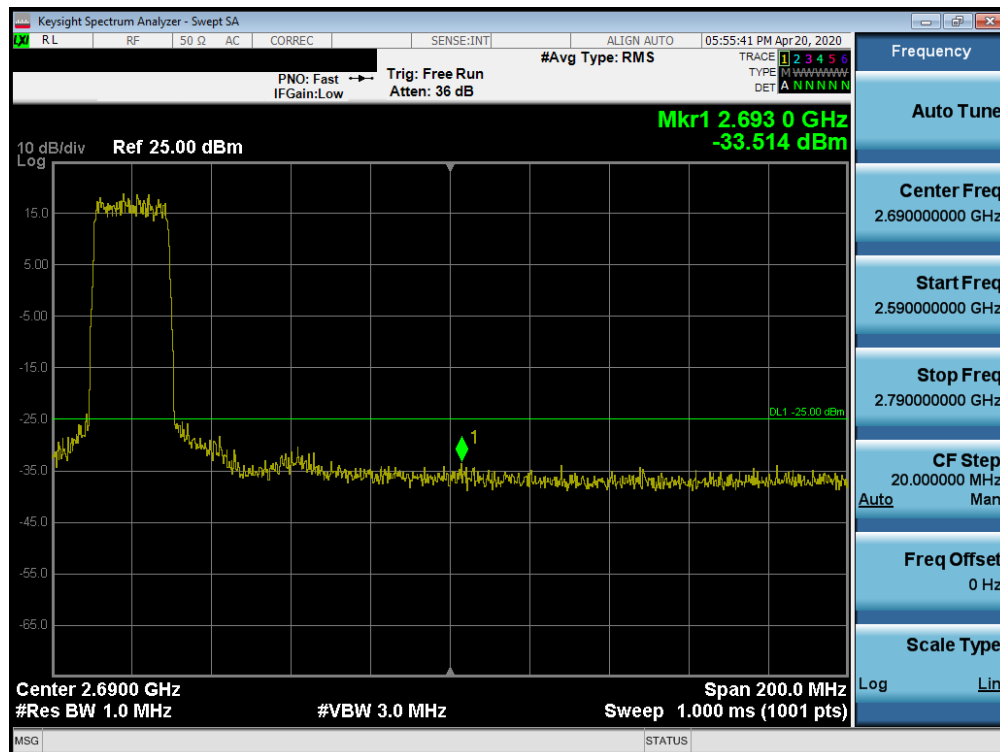


Plot 7-456. Upper Band Edge Plot (Band 38 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 254 of 443



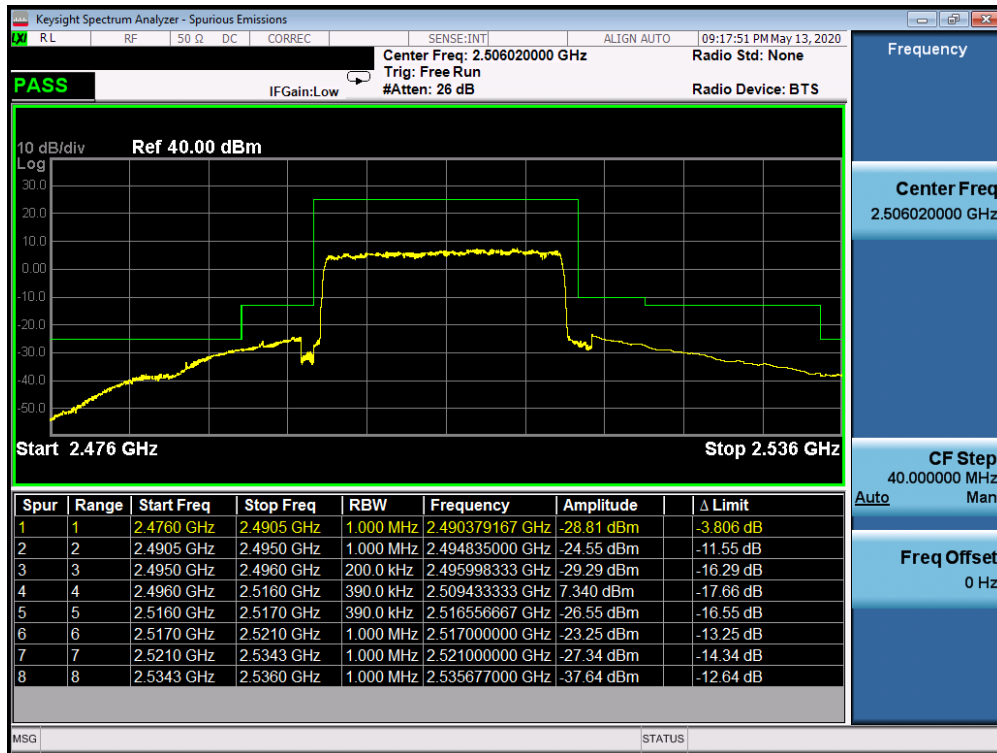
Plot 7-457. Lower Band Edge Plot (Band 38 - 20.0MHz QPSK - Full RB Configuration)



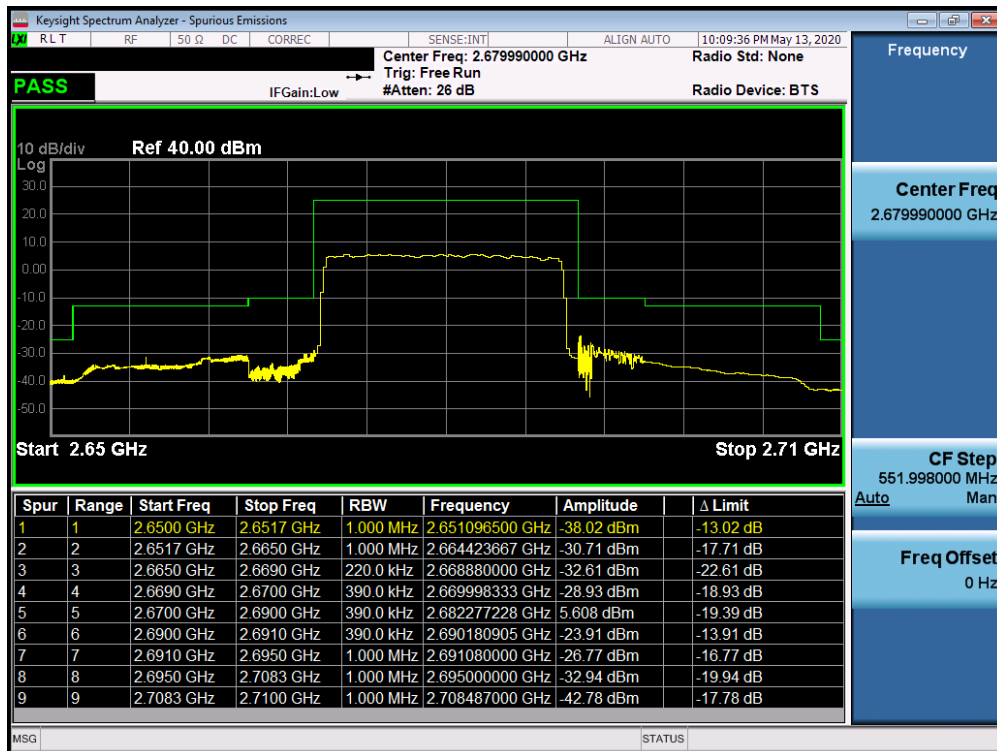
Plot 7-458. Upper Band Edge Plot (Band 38 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 255 of 443

NR Band n41

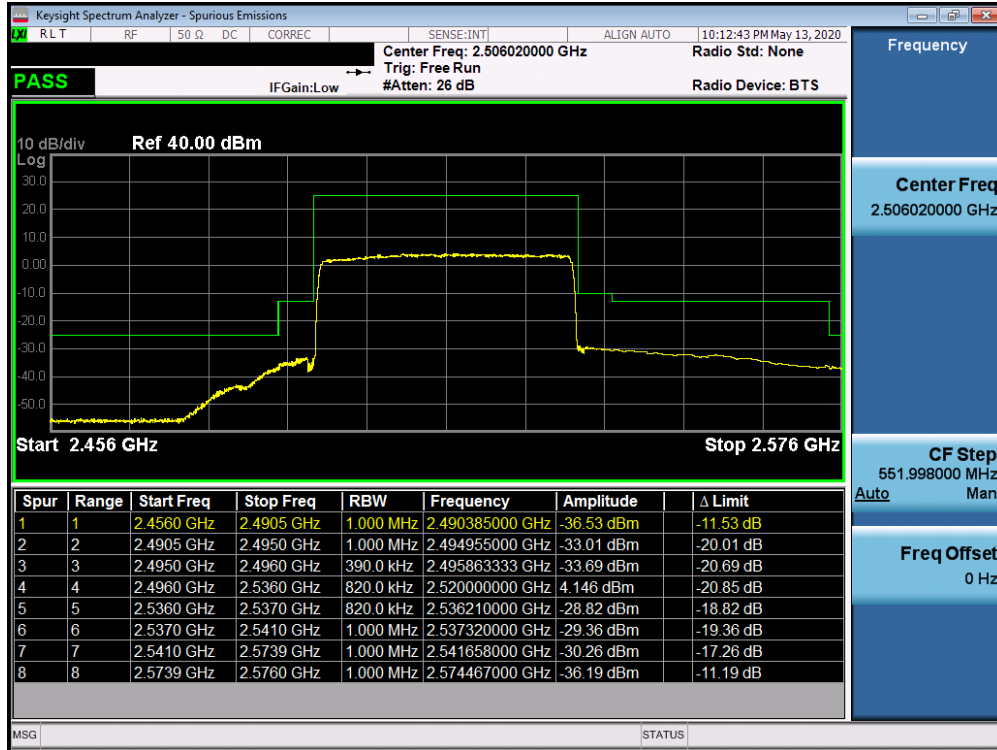


Plot 7-459. Lower ACP Plot at 2496 MHz (n41 - 20.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

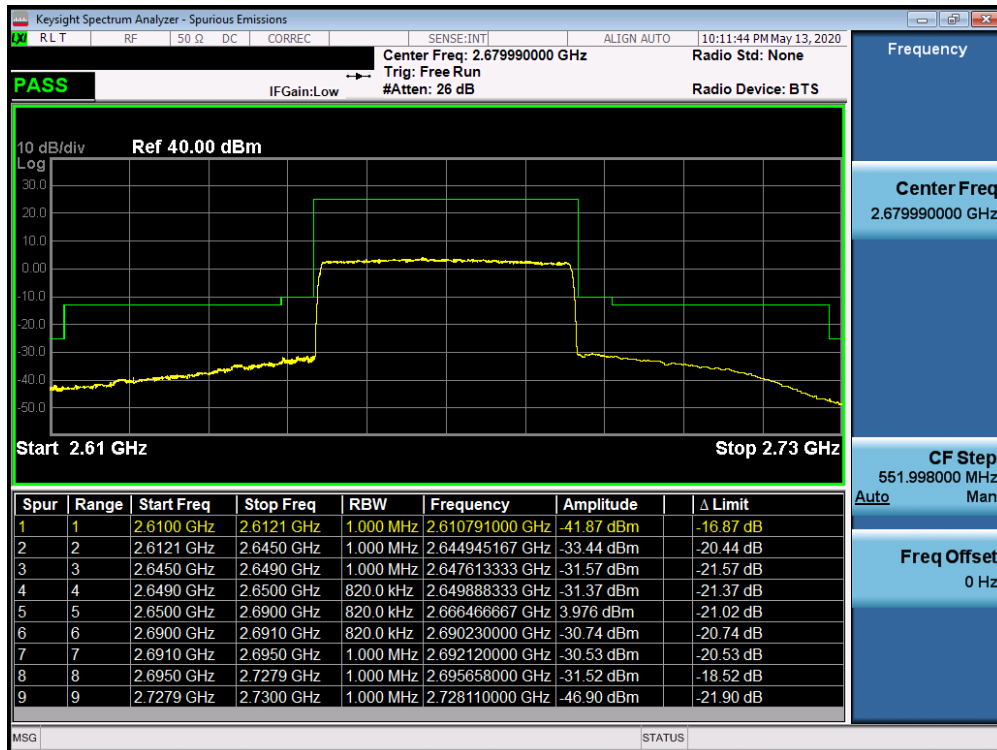


Plot 7-460. Upper ACP Plot (Band 41 - 20.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 256 of 443

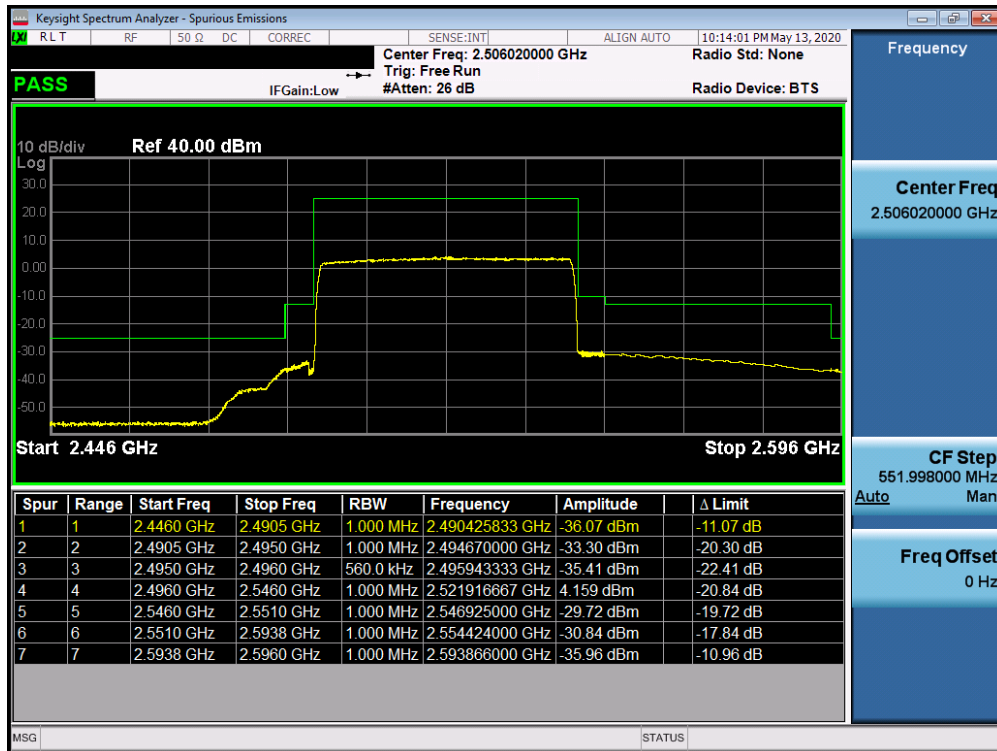


Plot 7-461. Lower ACP Plot at 2496 MHz (n41 - 40.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

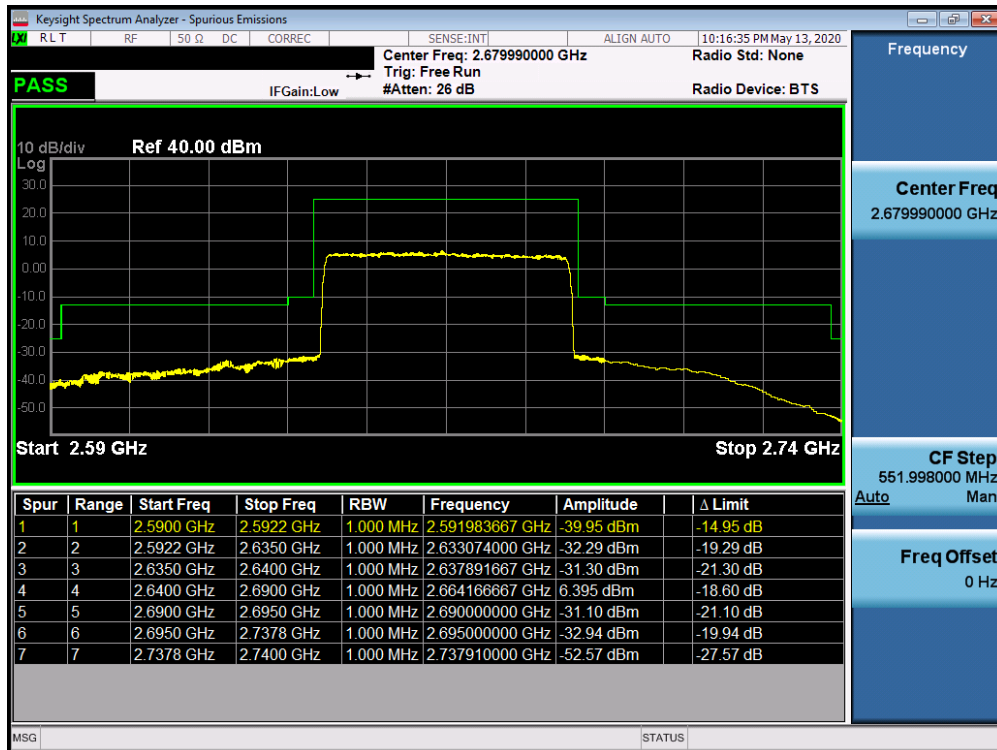


Plot 7-462. Upper ACP Plot (Band 41 - 40.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 257 of 443

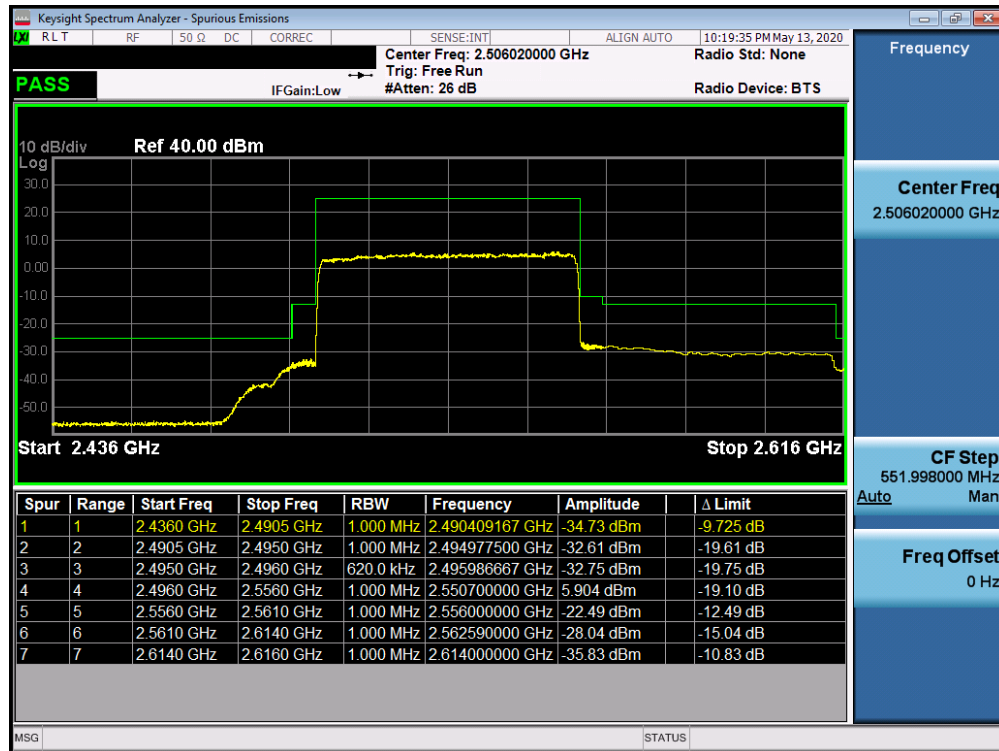


Plot 7-463. Lower ACP Plot at 2496 MHz (n41 - 50.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

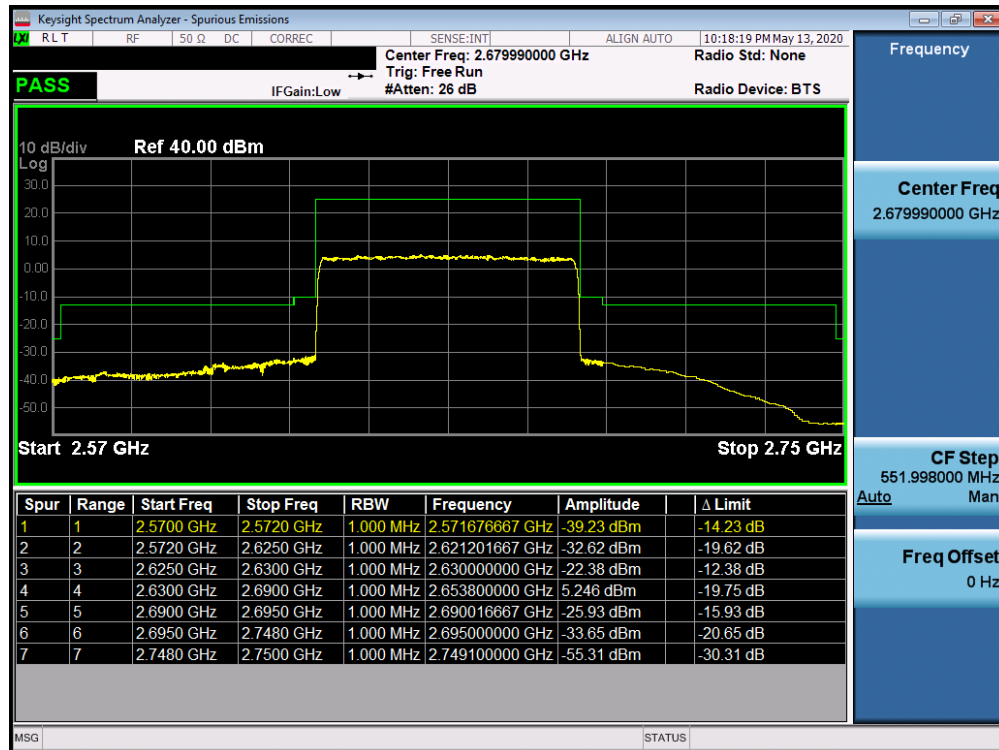


Plot 7-464. Upper ACP Plot (Band 41 - 50.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 258 of 443

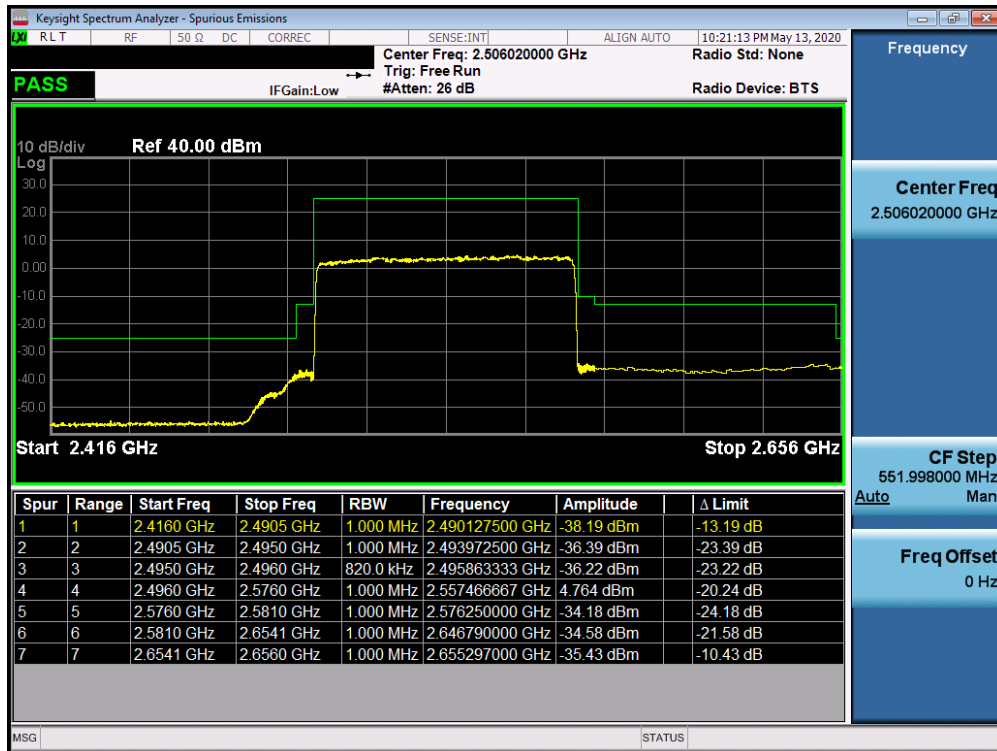


Plot 7-465. Lower ACP Plot at 2496 MHz (n41 - 60.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

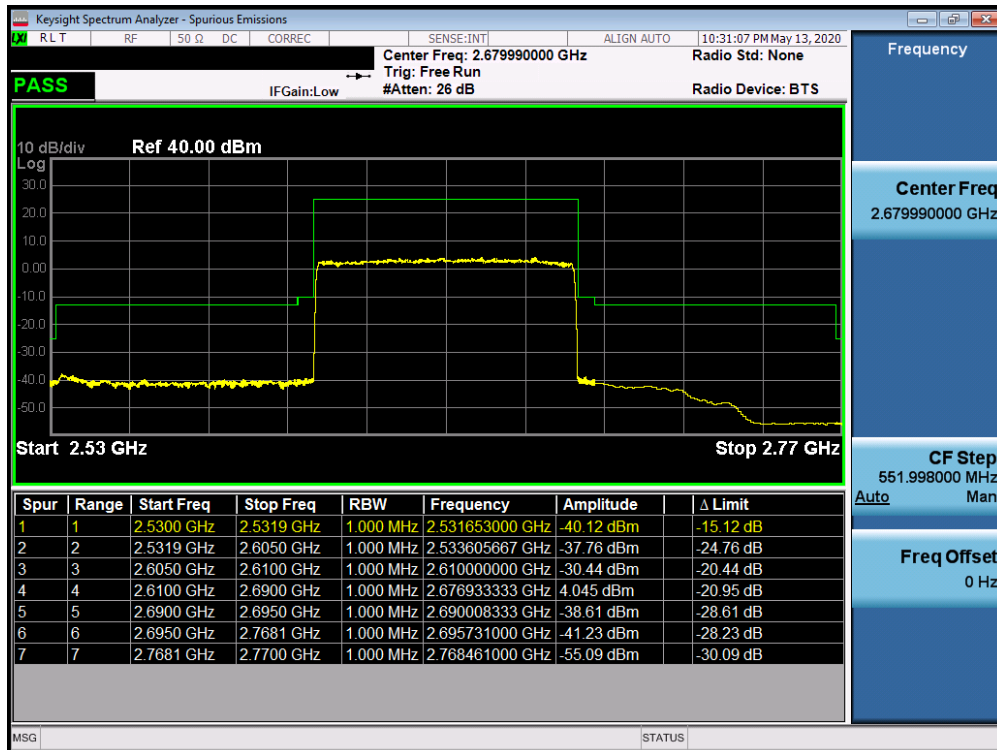


Plot 7-466. Upper ACP Plot (Band 41 - 60.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 259 of 443

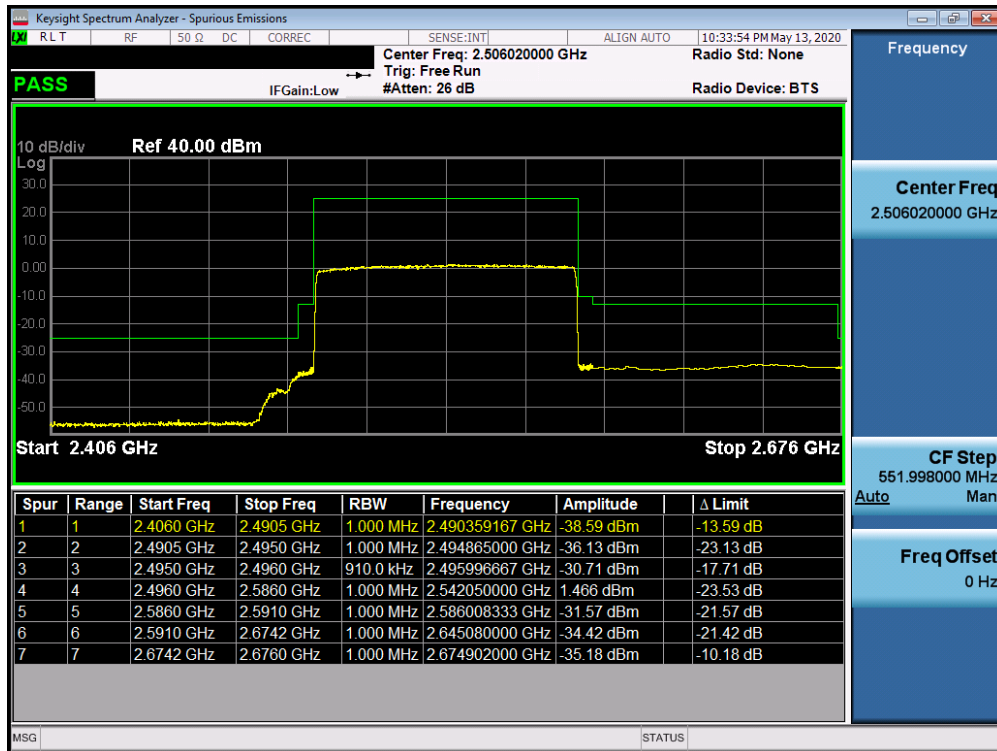


Plot 7-467. Lower ACP Plot at 2496 MHz (n41 - 80.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

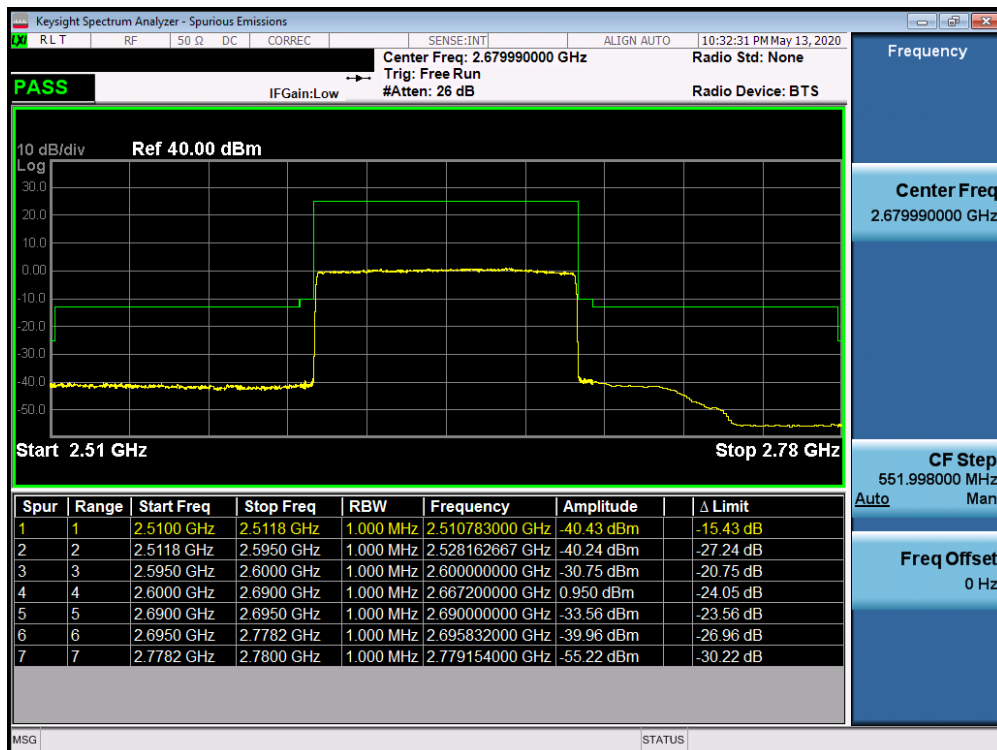


Plot 7-468. Upper ACP Plot (Band 41 - 80.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 260 of 443

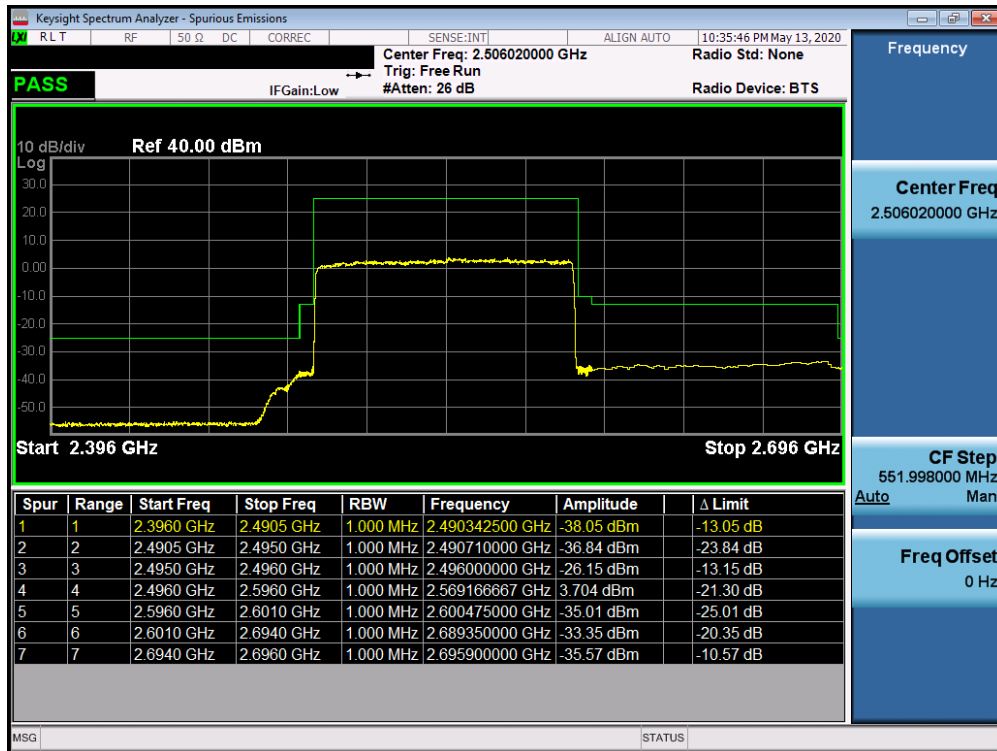


Plot 7-469. Lower ACP Plot at 2496 MHz (n41 - 90.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

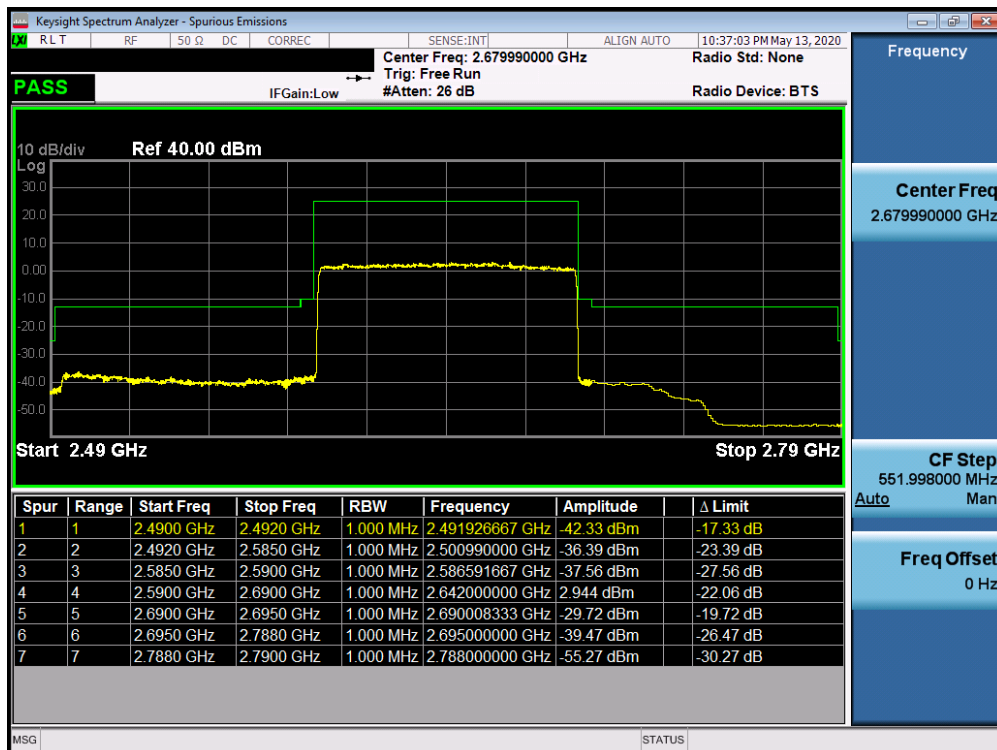


Plot 7-470. Upper ACP Plot (Band 41 - 90.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 261 of 443



Plot 7-471. Lower ACP Plot at 2496 MHz (n41 - 100.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)



Plot 7-472. Upper ACP Plot (Band n41 - 100.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 262 of 443

7.5 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

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.

Test Setup

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

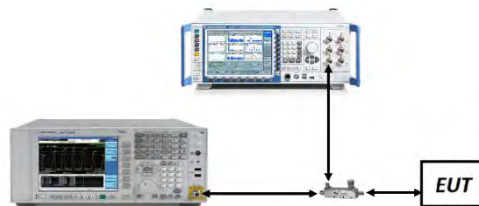


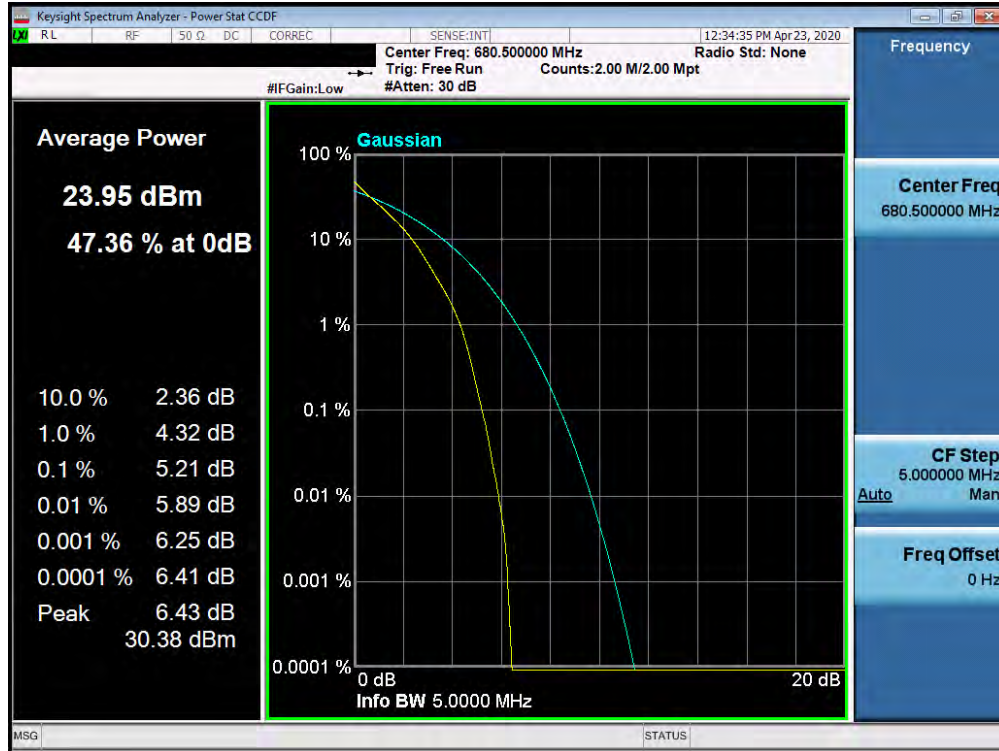
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

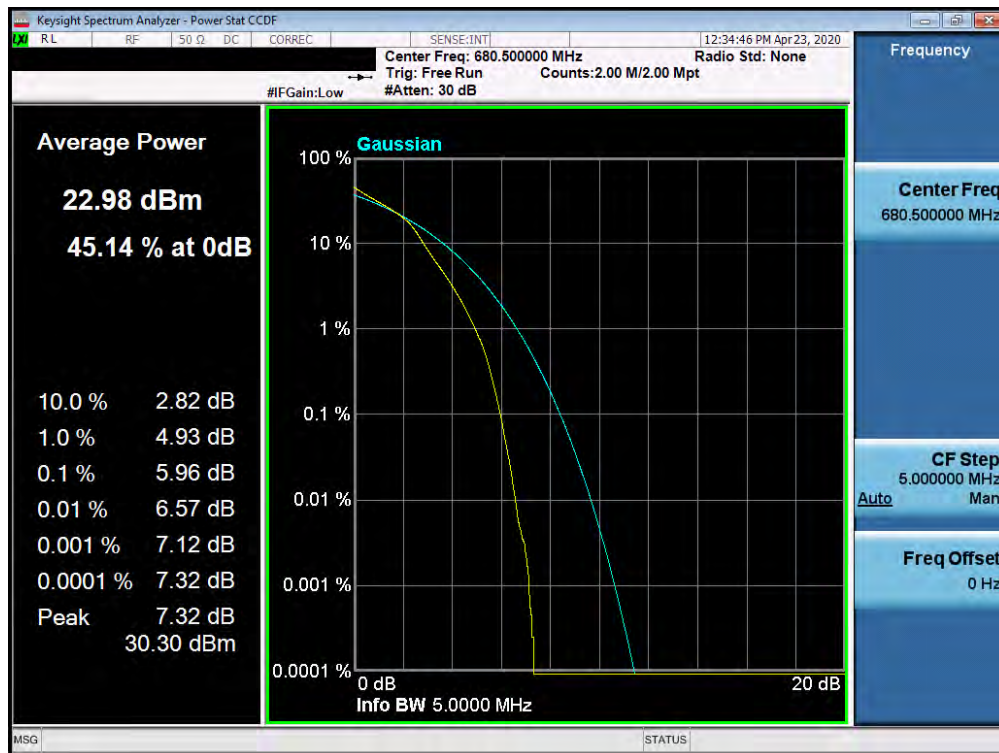
None.

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 263 of 443

Band 71

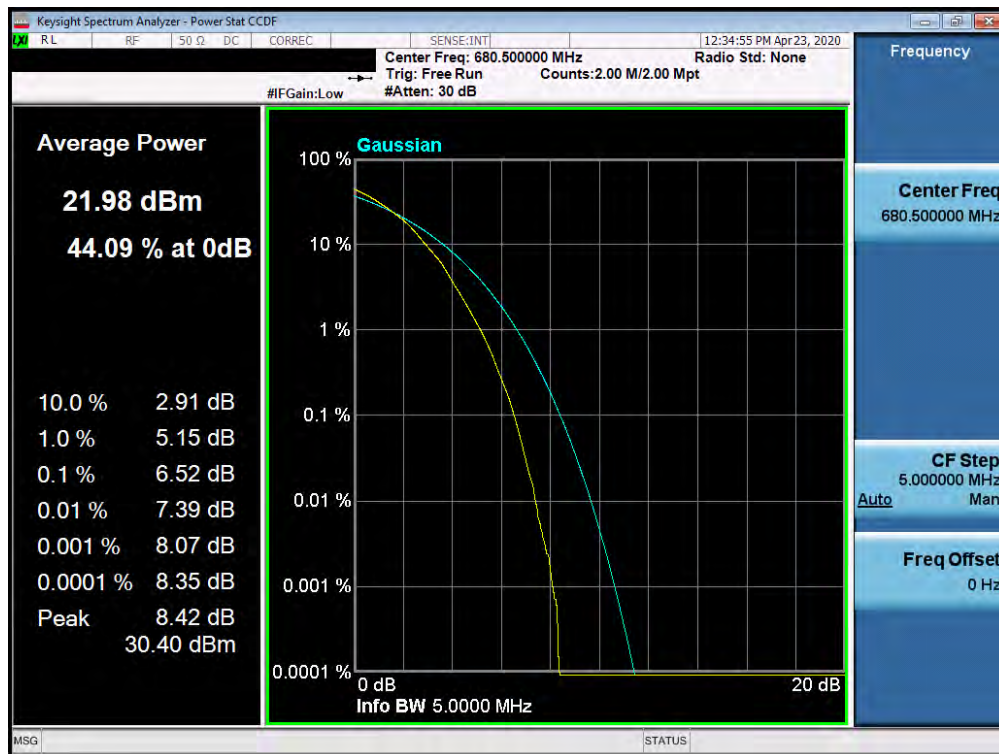


Plot 7-473. PAR Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)

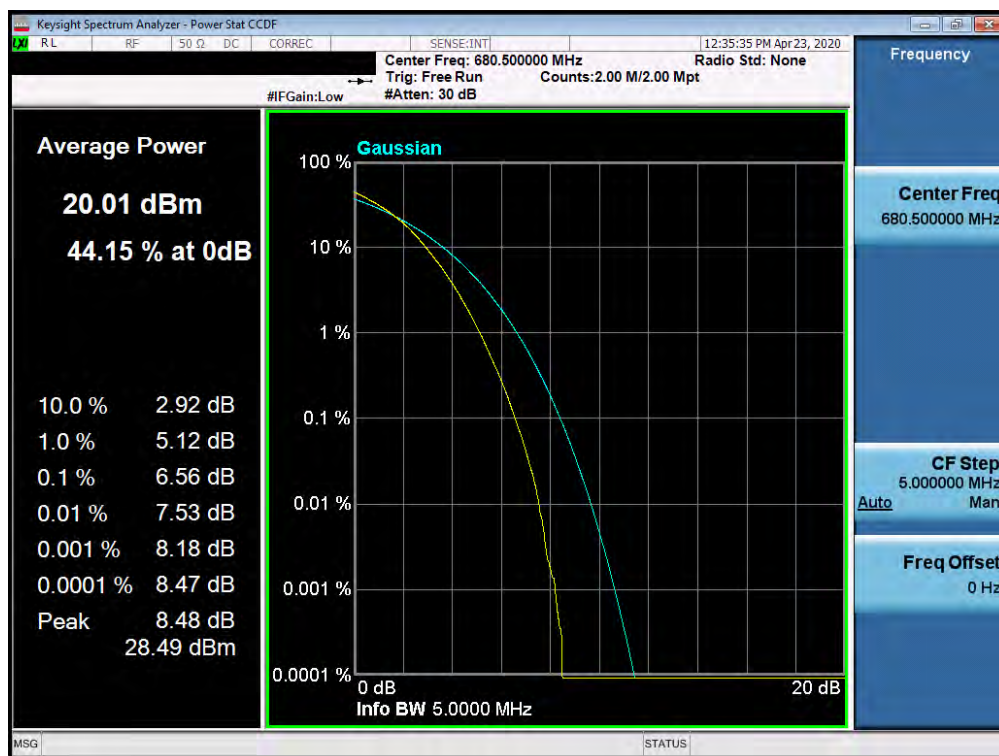


Plot 7-474. PAR Plot (Band 71 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 264 of 443

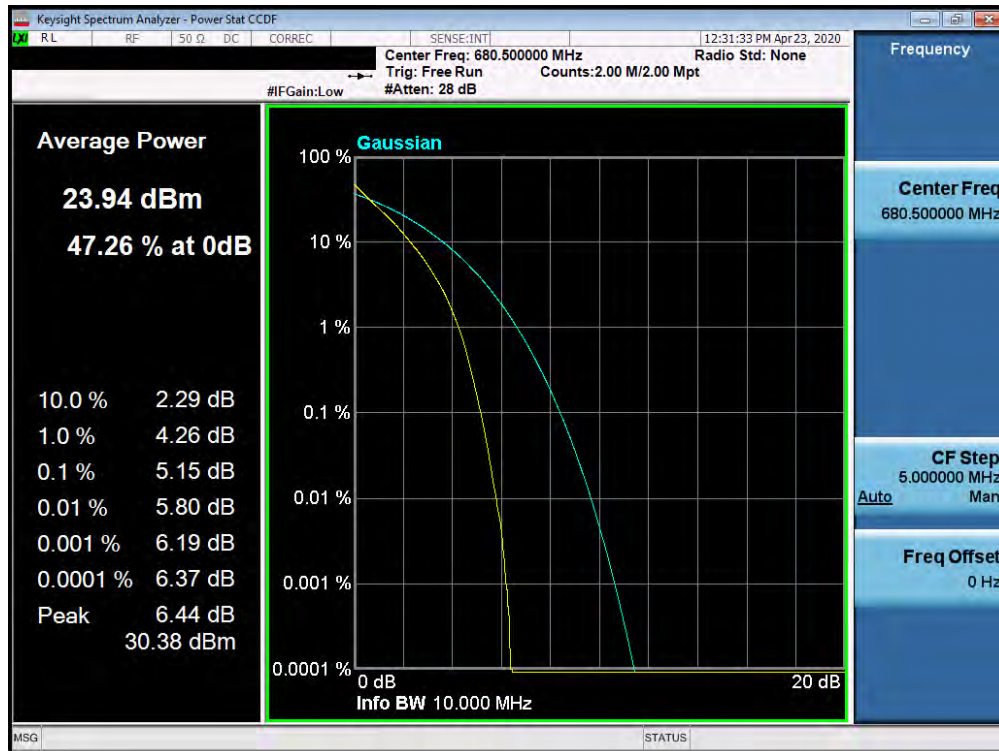


Plot 7-475. PAR Plot (Band 71 - 5.0MHz 64-QAM - Full RB Configuration)

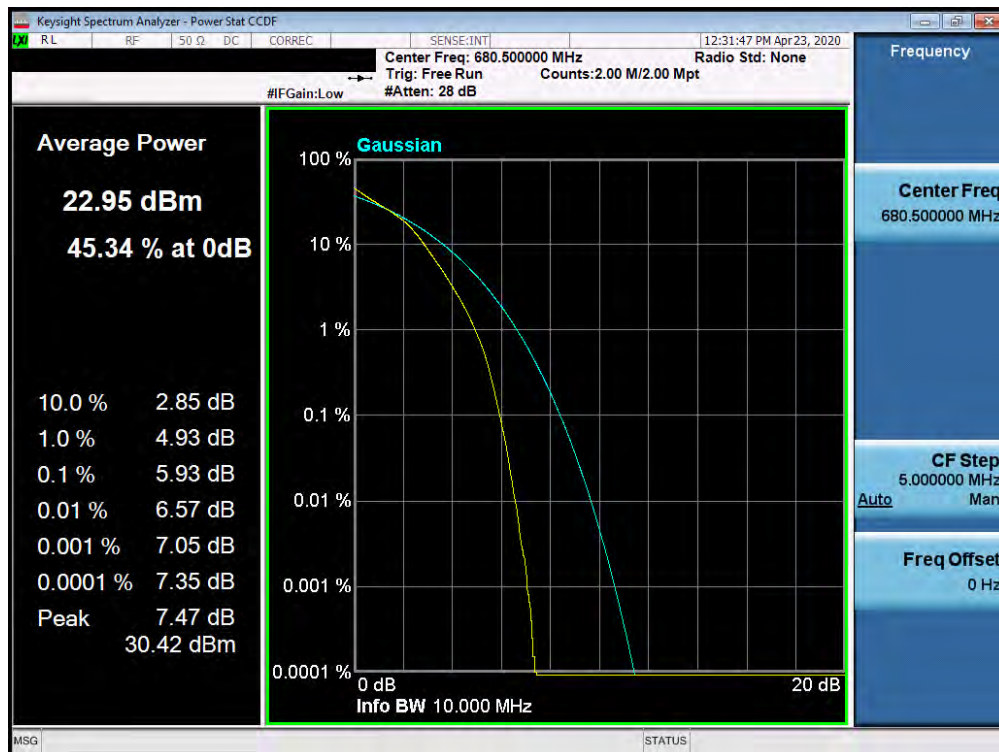


Plot 7-476. PAR Plot (Band 71 - 5.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 265 of 443

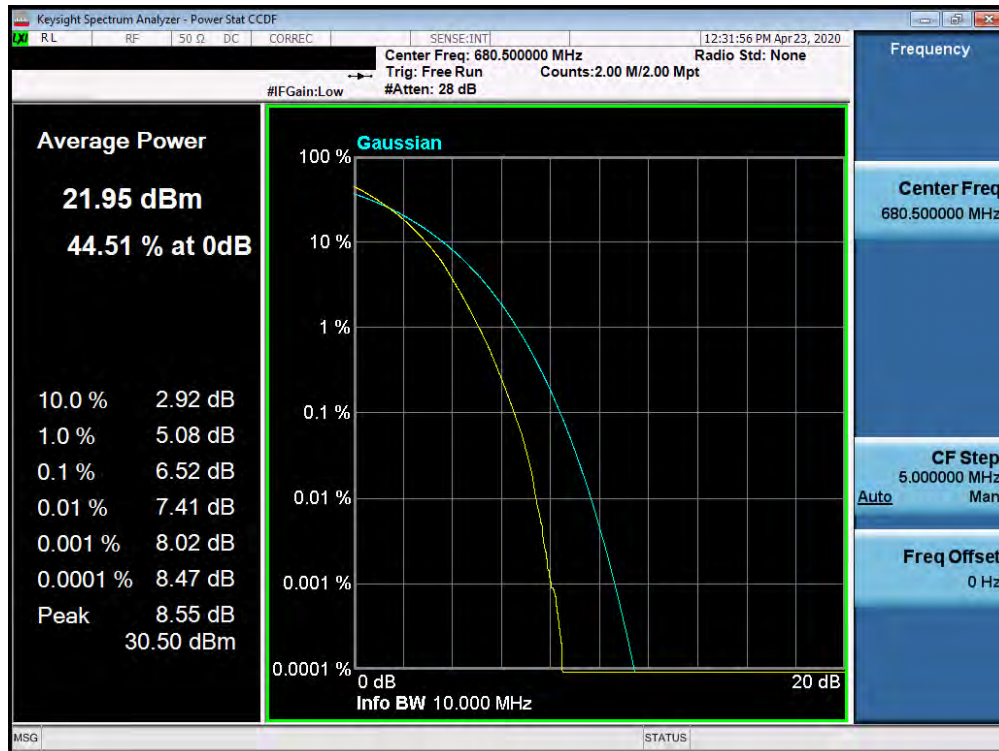


Plot 7-477. PAR Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)

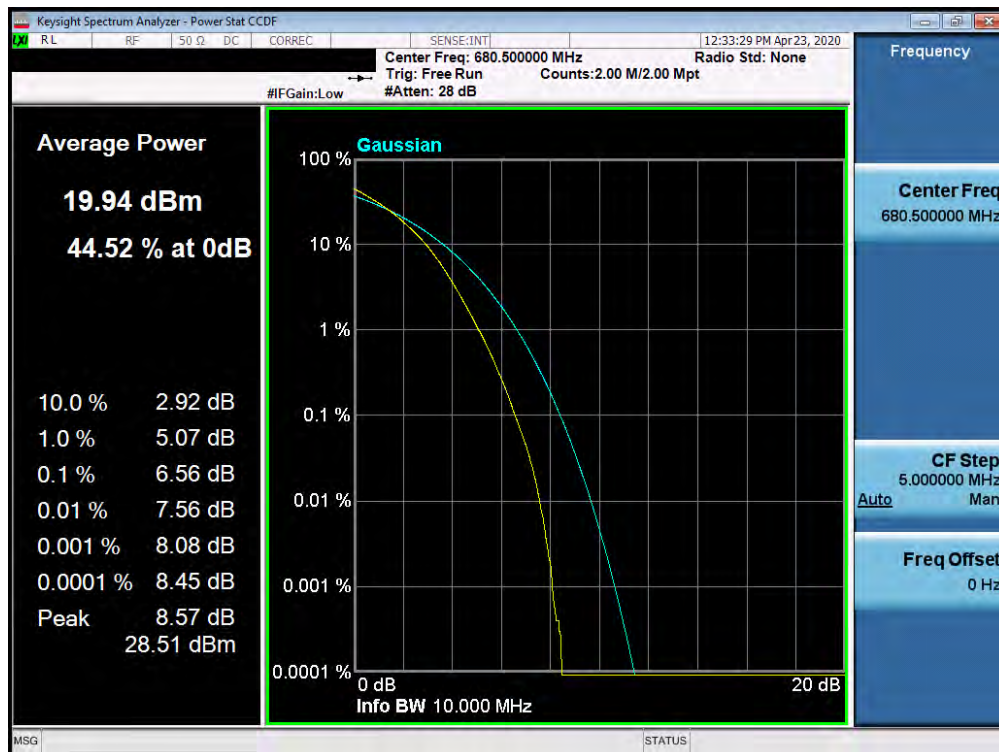


Plot 7-478. PAR Plot (Band 71 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 266 of 443

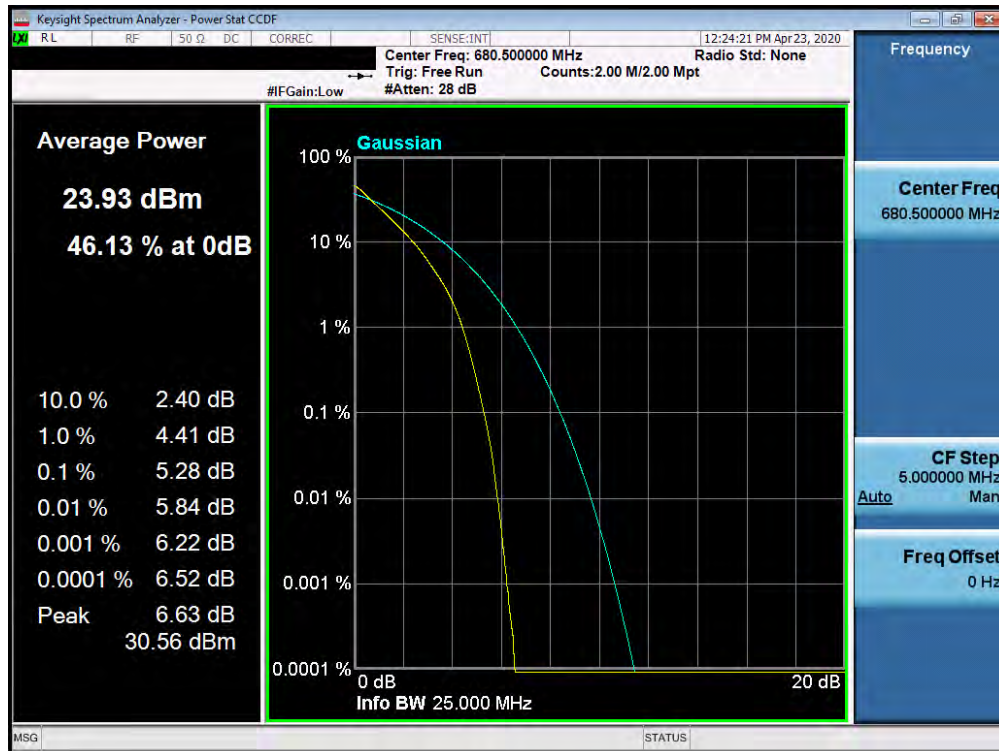


Plot 7-479. PAR Plot (Band 71 - 10.0MHz 64-QAM - Full RB Configuration)

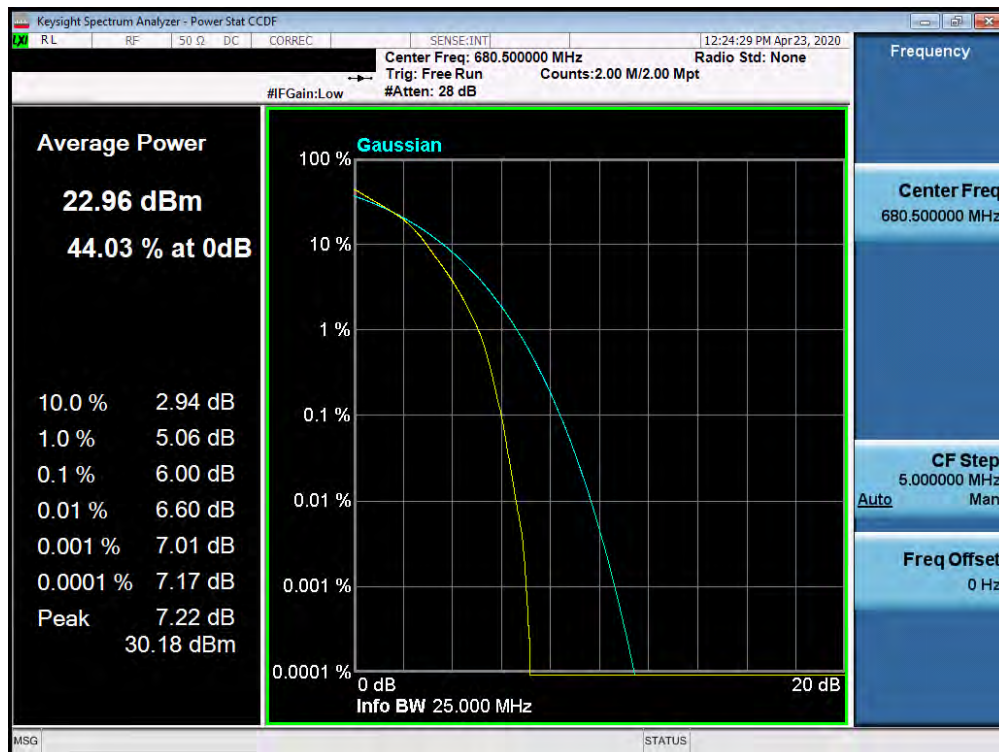


Plot 7-480. PAR Plot (Band 71 - 10.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 267 of 443

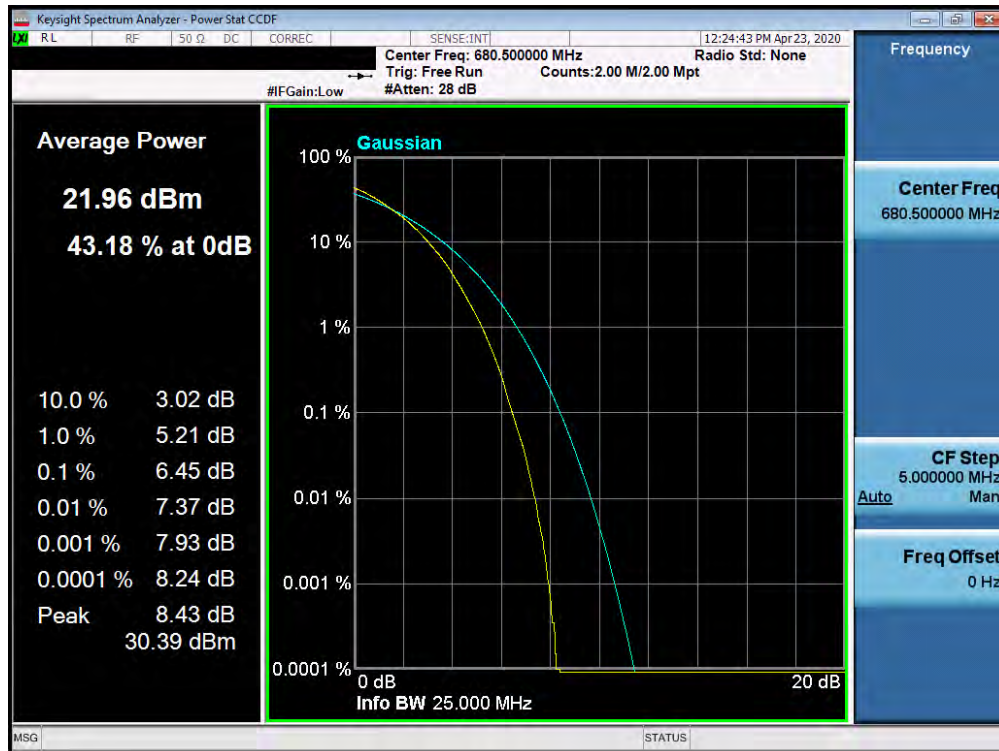


Plot 7-481. PAR Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)

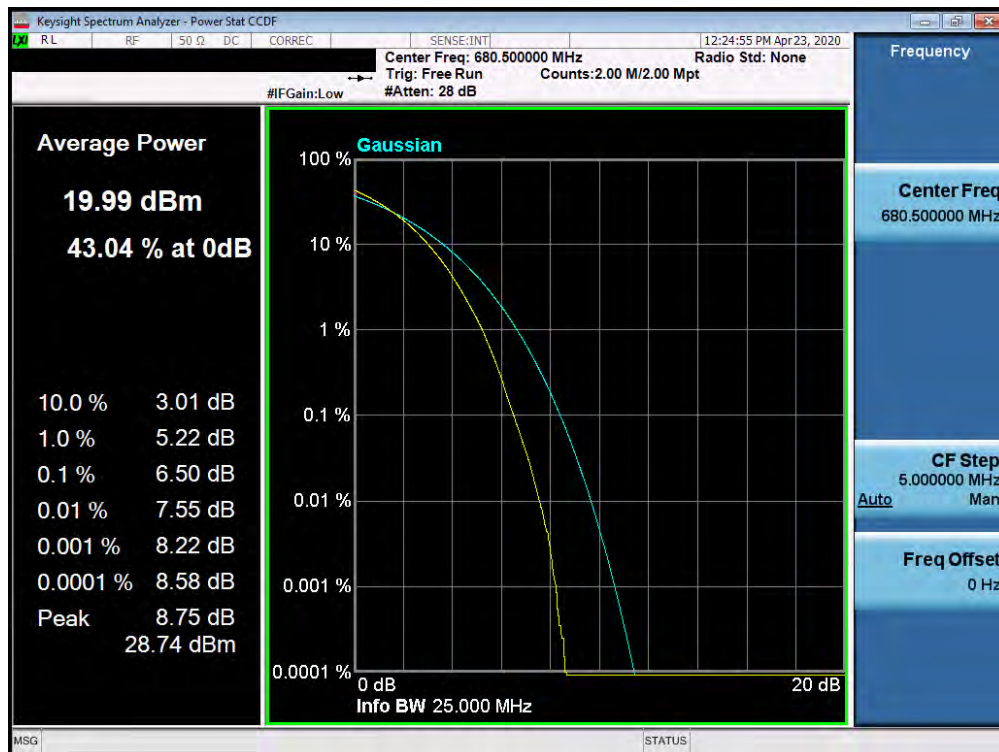


Plot 7-482. PAR Plot (Band 71 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 268 of 443

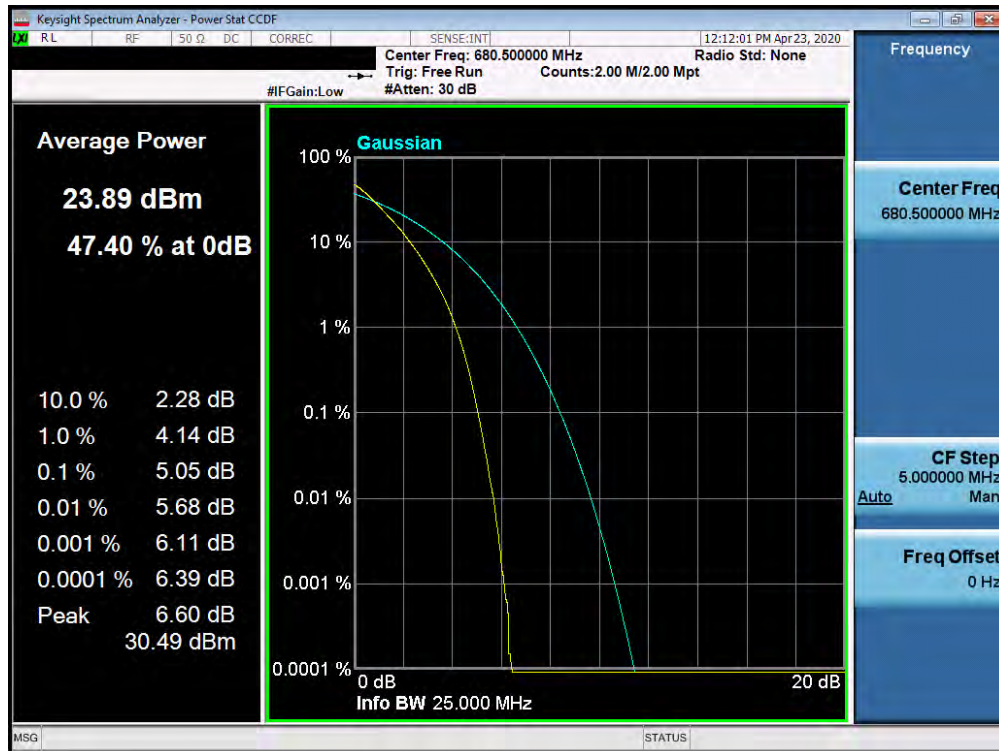


Plot 7-483. PAR Plot (Band 71 - 15.0MHz 64-QAM - Full RB Configuration)

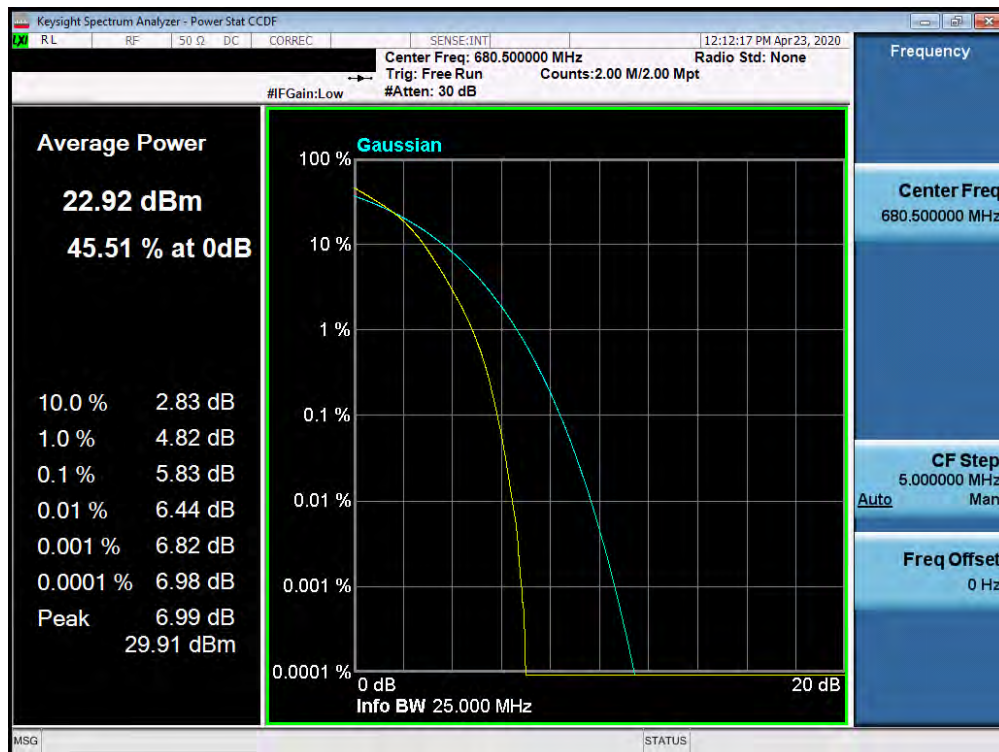


Plot 7-484. PAR Plot (Band 71 - 15.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 269 of 443

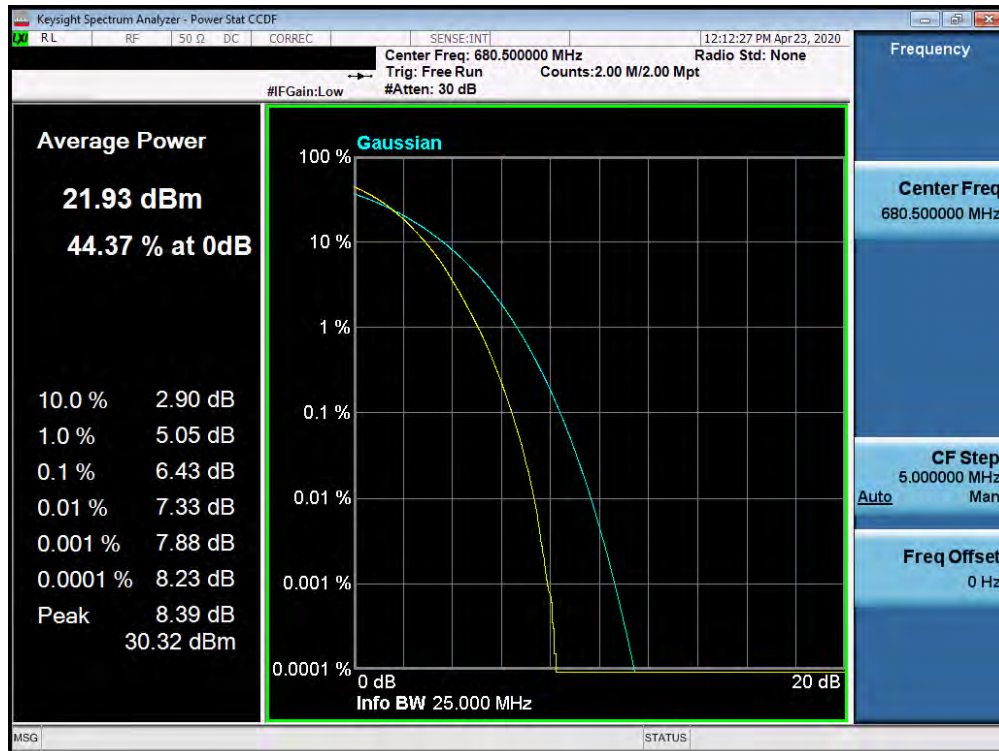


Plot 7-485. PAR Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)

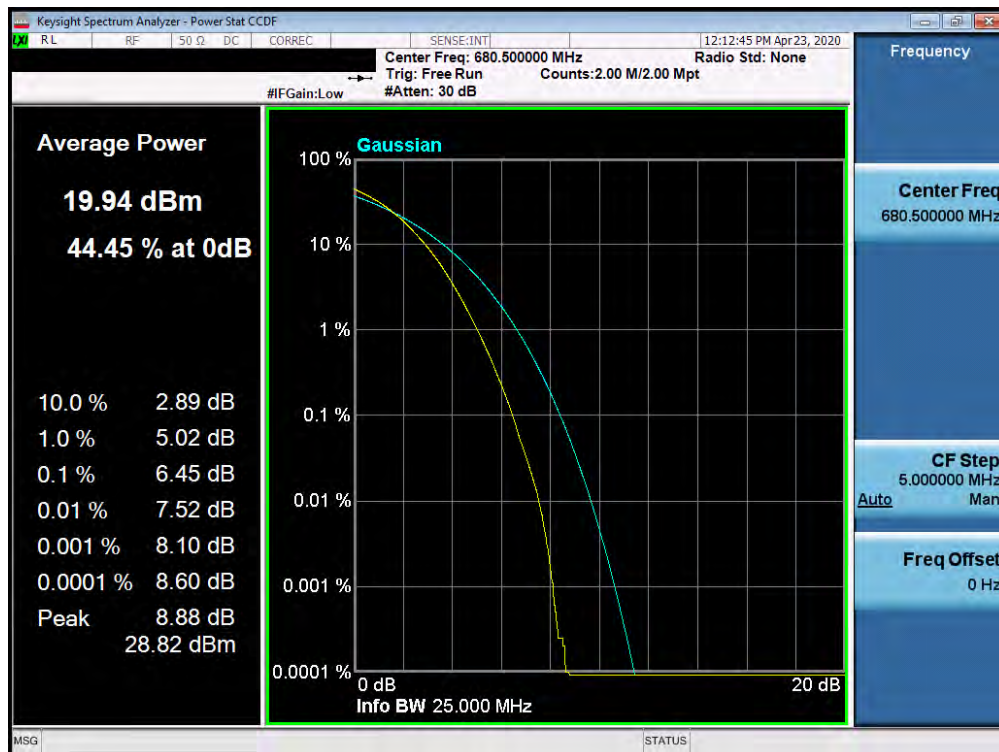


Plot 7-486. PAR Plot (Band 71 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 270 of 443



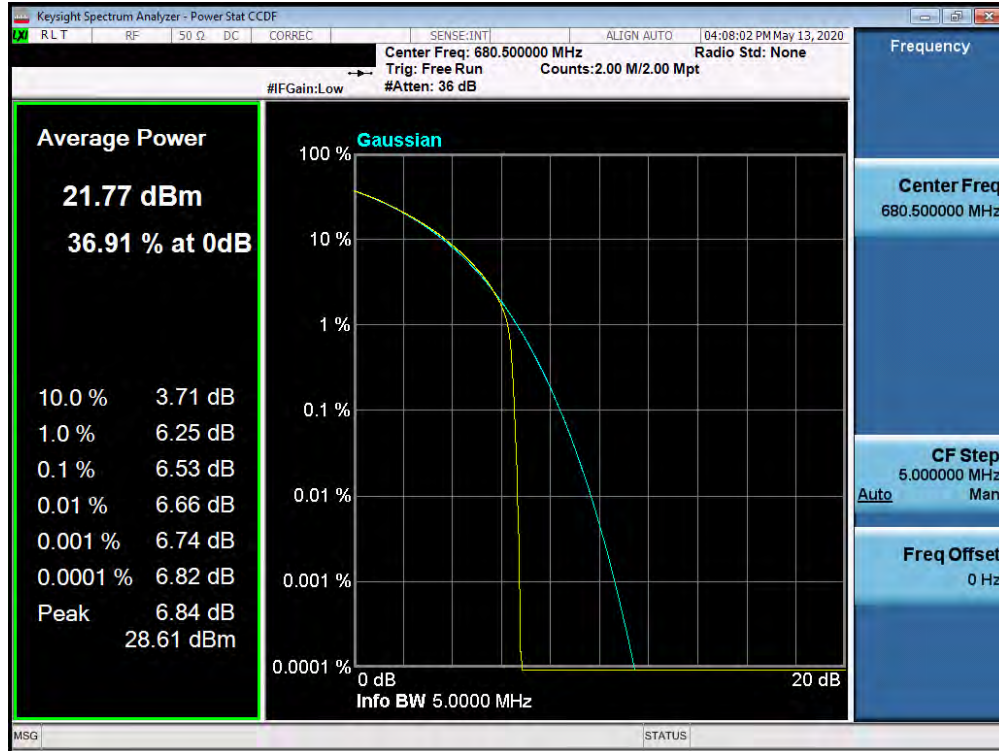
Plot 7-487. PAR Plot (Band 71 - 20.0MHz 64-QAM - Full RB Configuration)



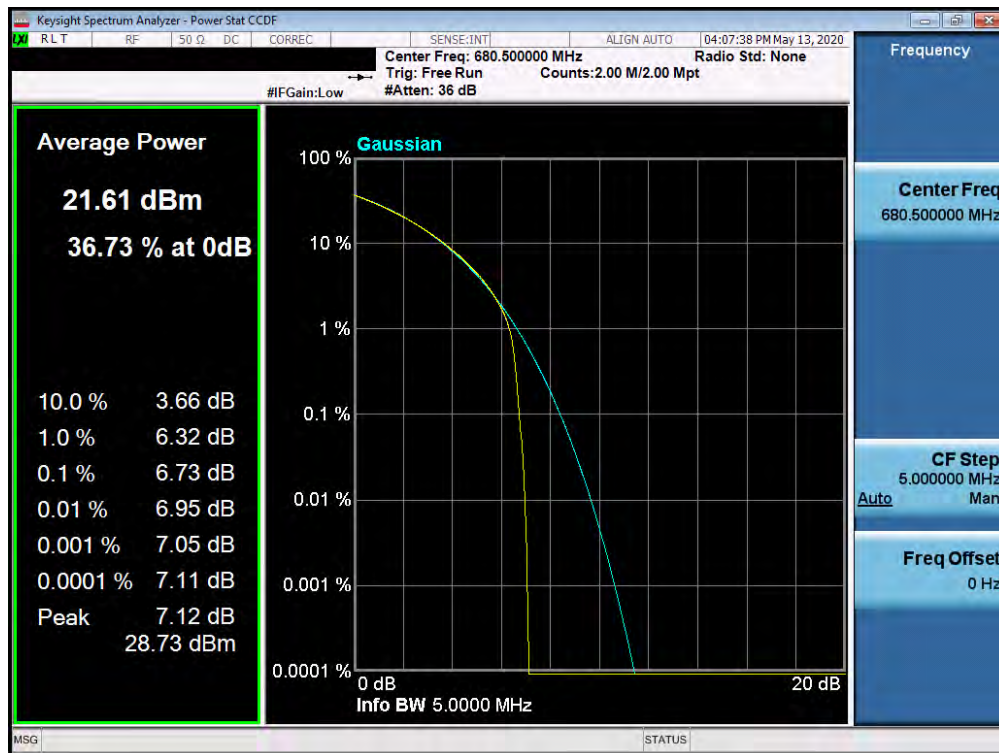
Plot 7-488. PAR Plot (Band 71 - 20.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 271 of 443

Band n71

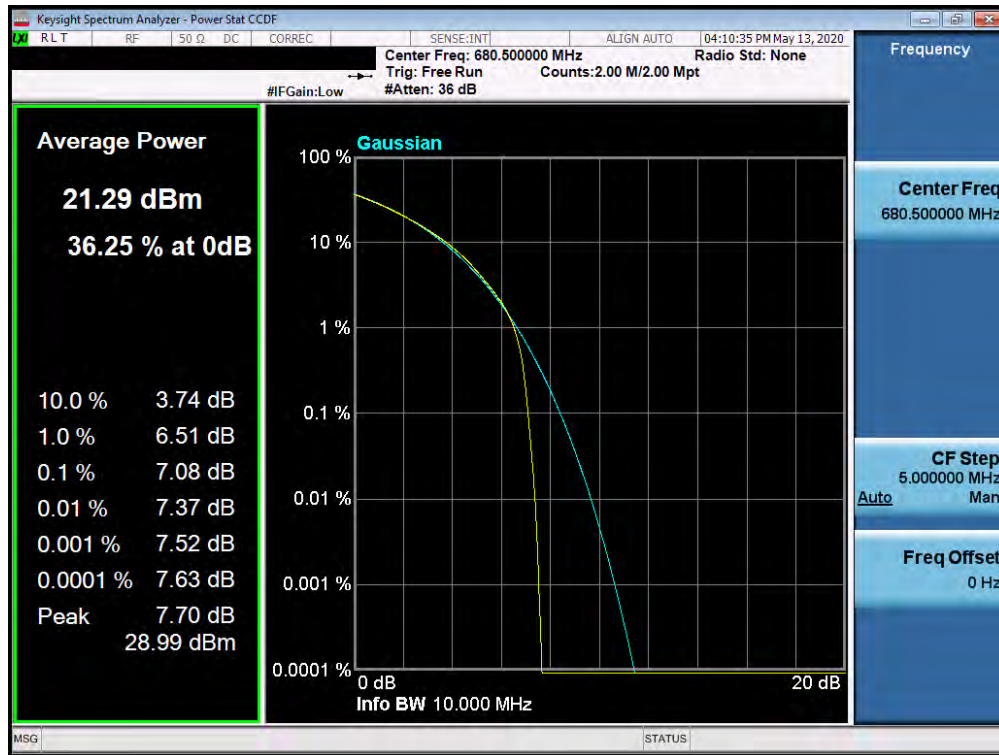


Plot 7-489. PAR Plot (Band n71 - 5.0MHz QPSK - Full RB Configuration)

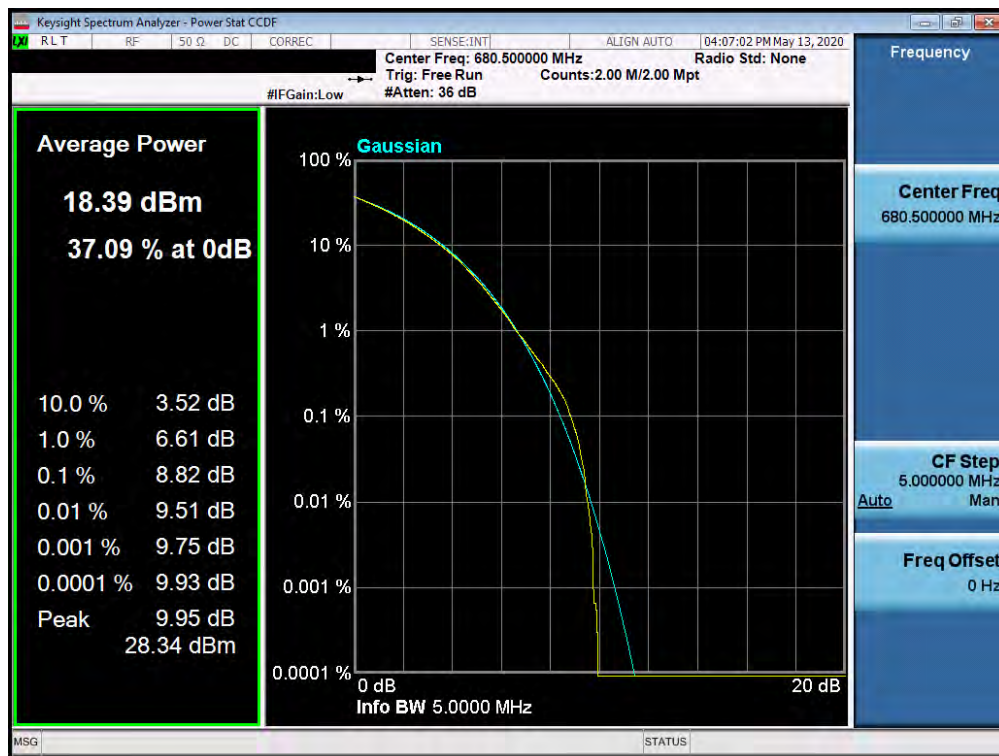


Plot 7-490. PAR Plot (Band n71 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 272 of 443



Plot 7-491. PAR Plot (Band n71 - 5.0MHz 64-QAM - Full RB Configuration)



Plot 7-492. PAR Plot (Band n71 - 5.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMN986W	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170066-03.A3L	Test Dates: 4/17 - 6/22/2020	EUT Type: Portable Handset		Page 273 of 443