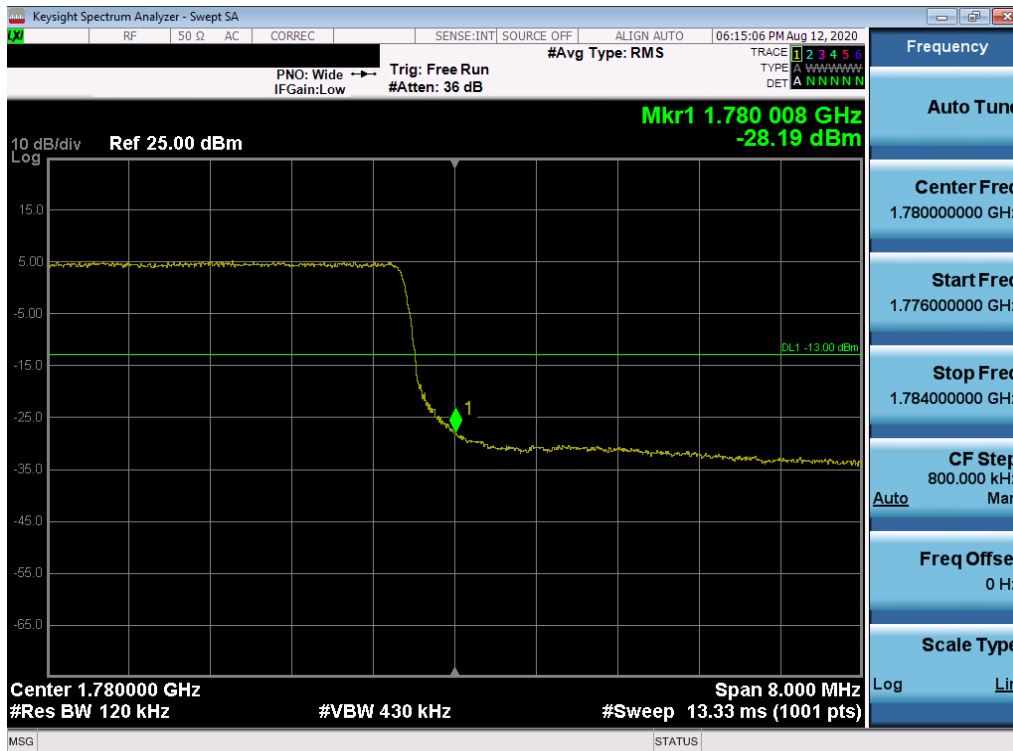
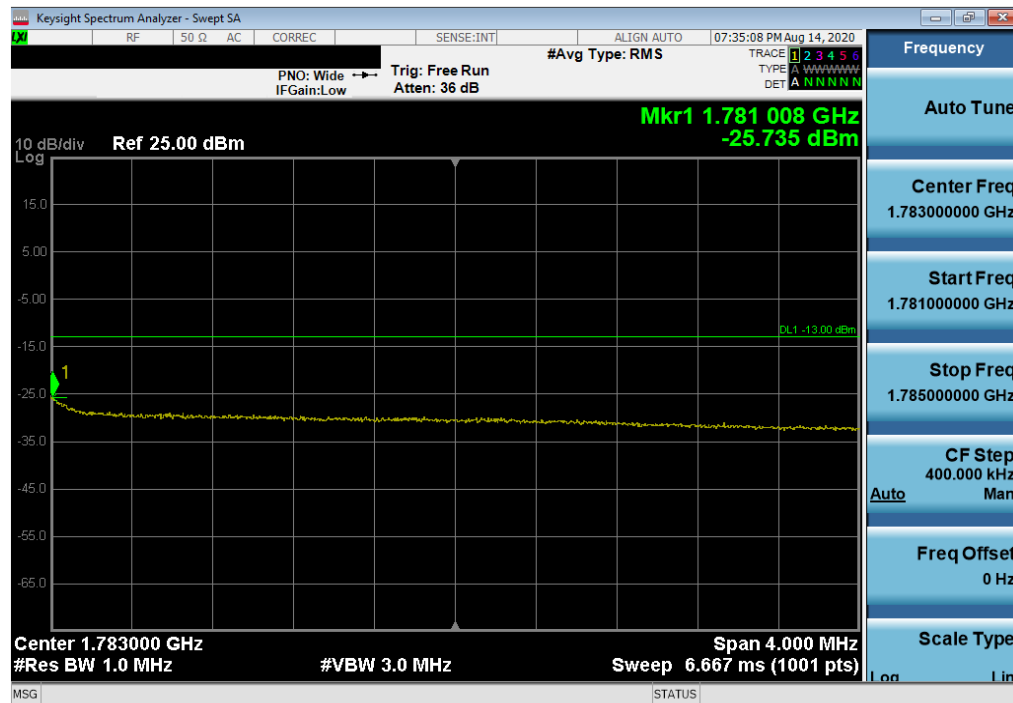


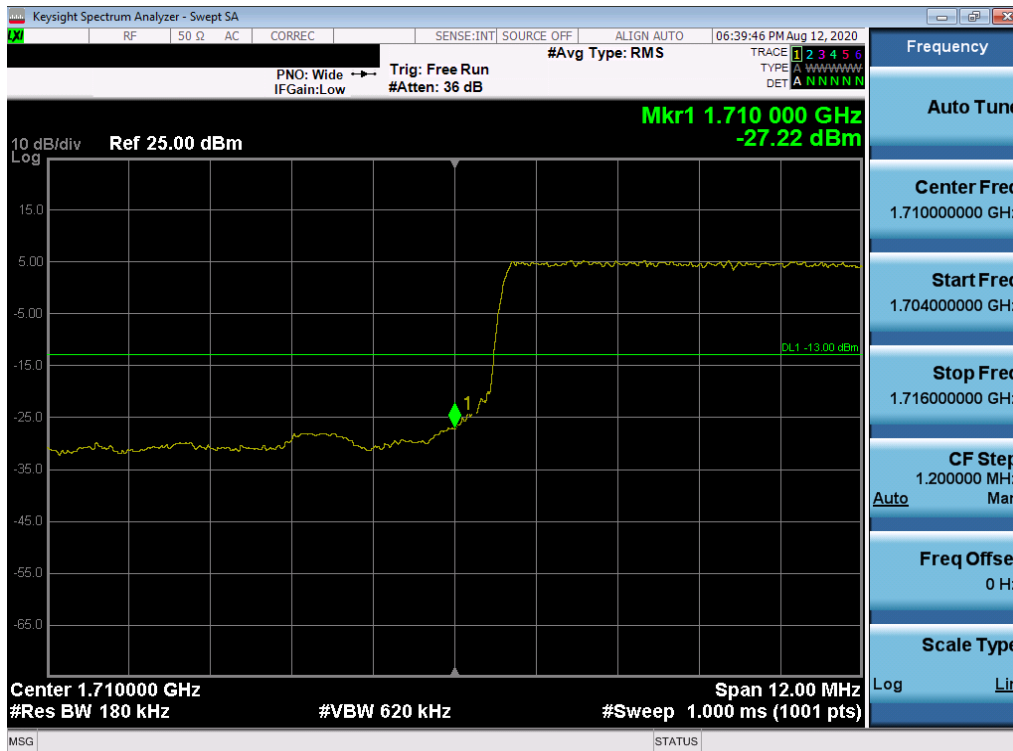


Plot 7-364. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB Configuration)

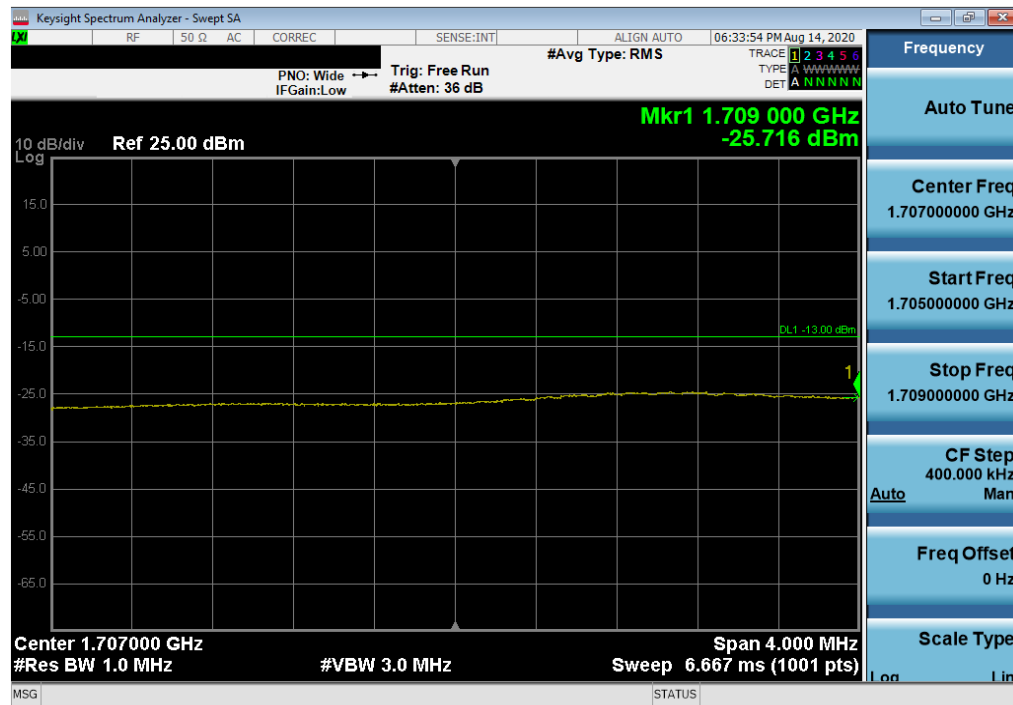


Plot 7-365. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 209 of 389

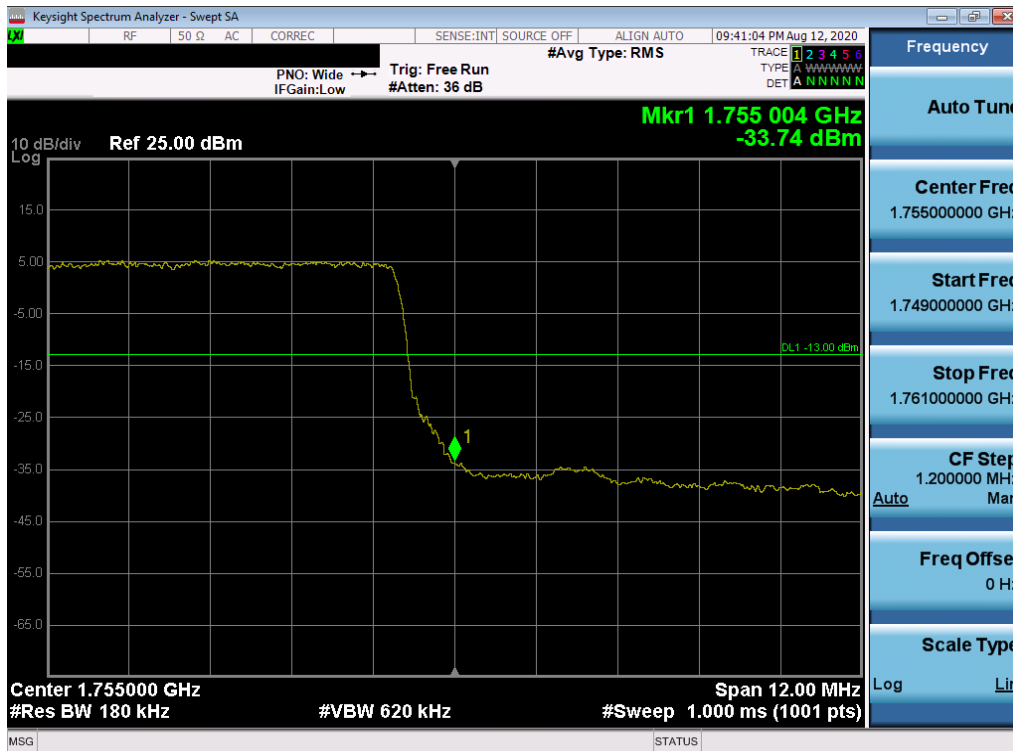


Plot 7-366. Lower Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB Configuration)

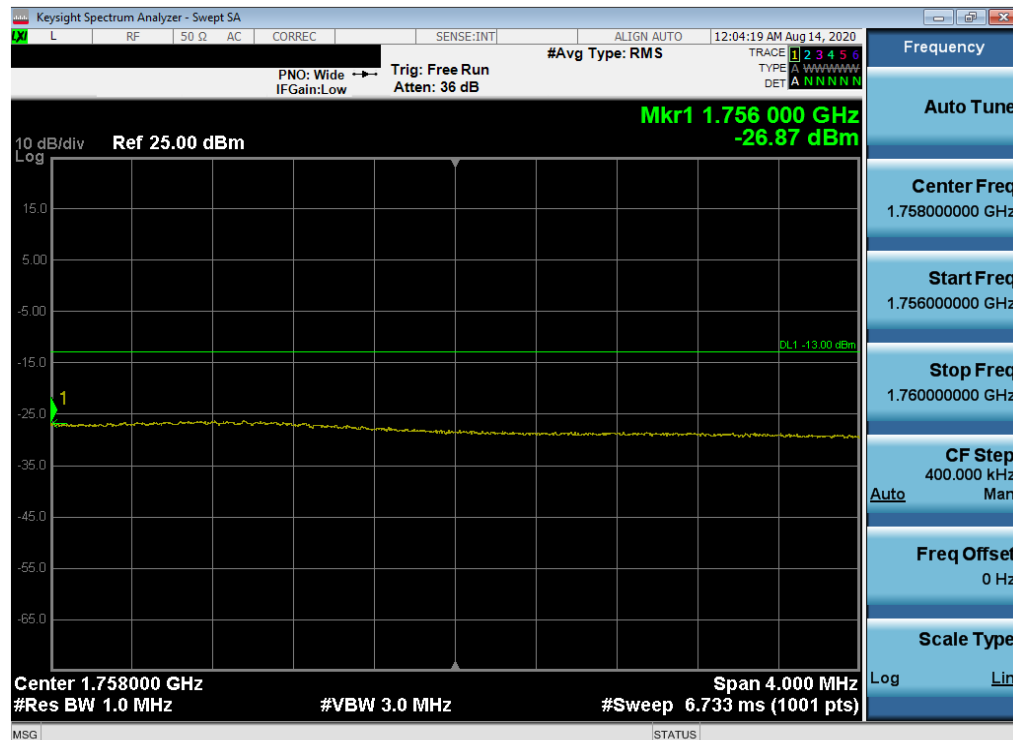


Plot 7-367. Lower Extended Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 210 of 389



Plot 7-368. Upper Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB Configuration)

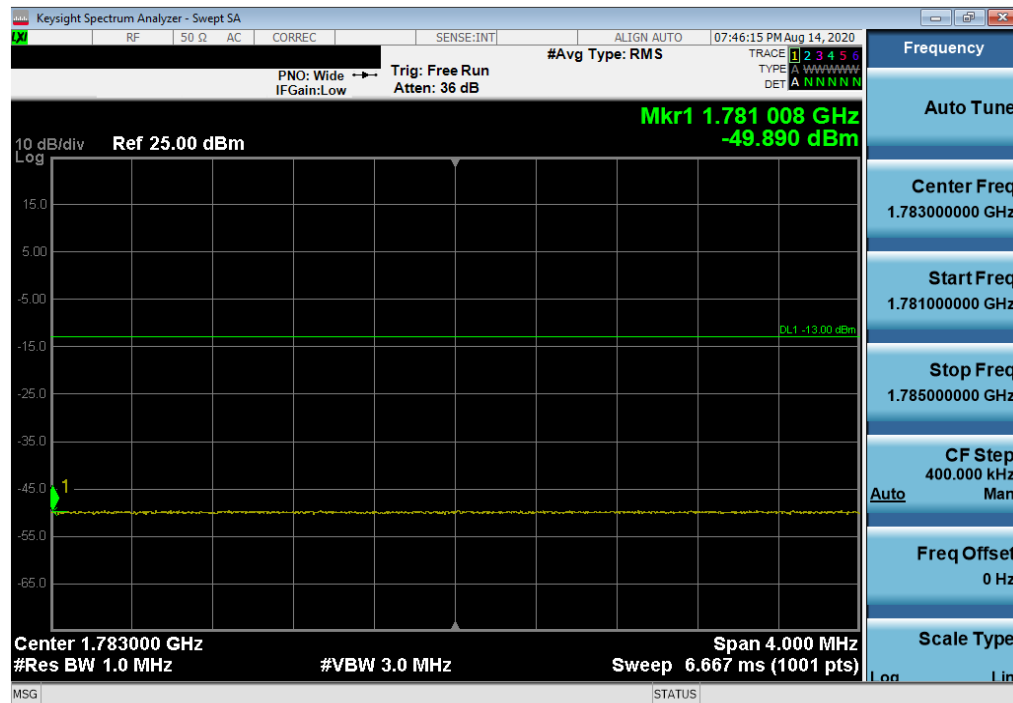


Plot 7-369. Upper Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 211 of 389

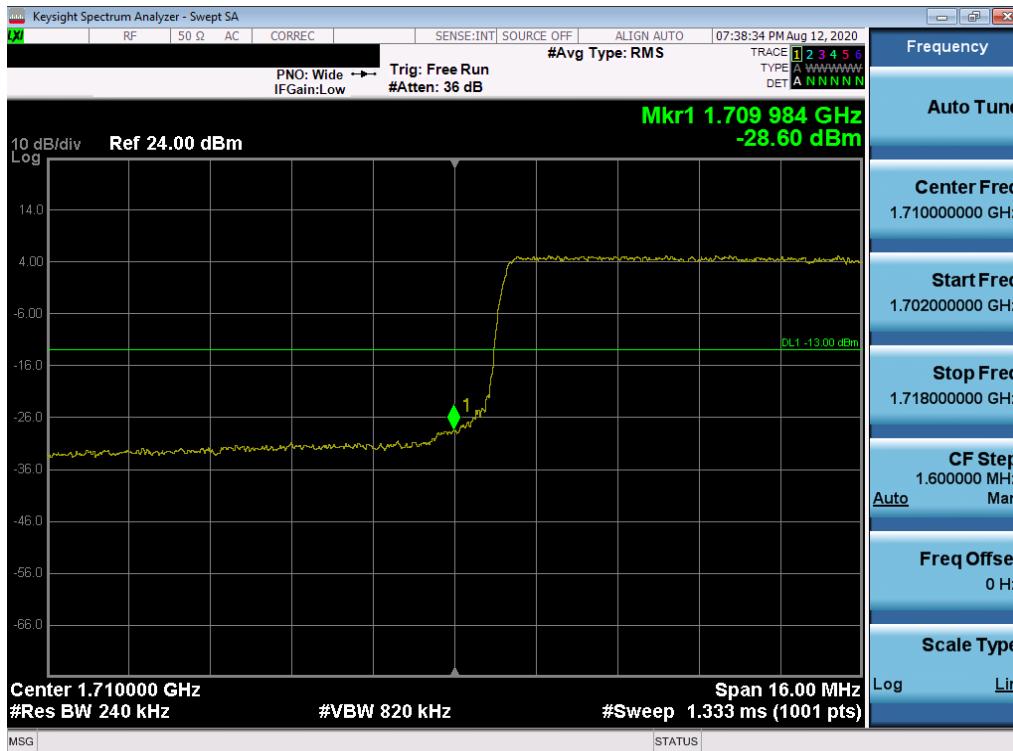


Plot 7-370. Upper Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB Configuration)

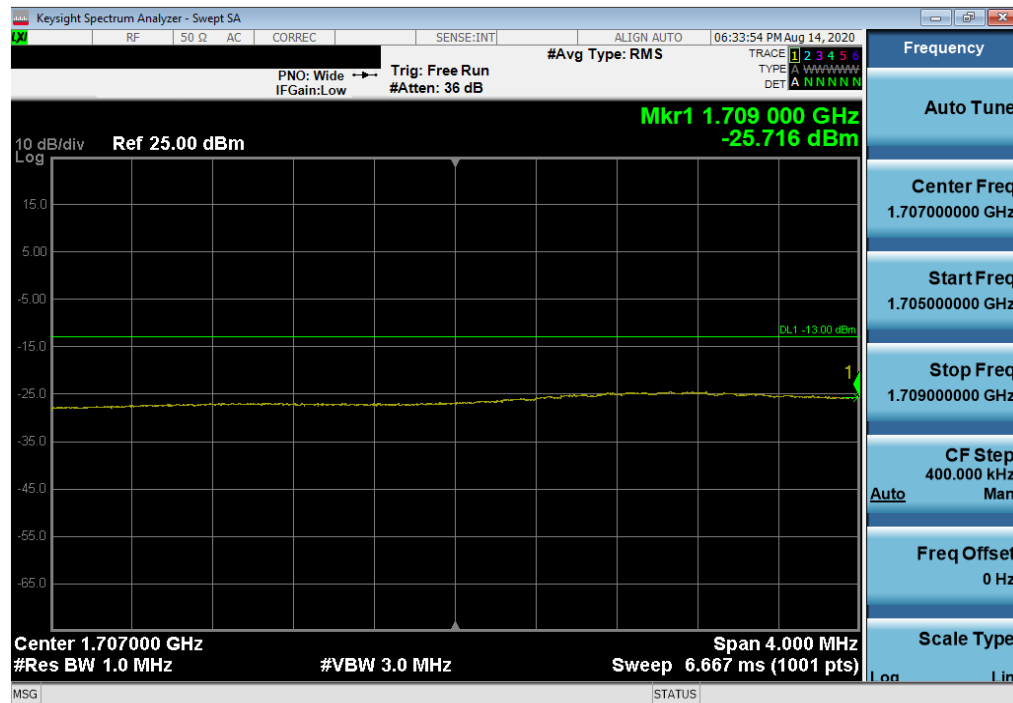


Plot 7-371. Upper Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 212 of 389

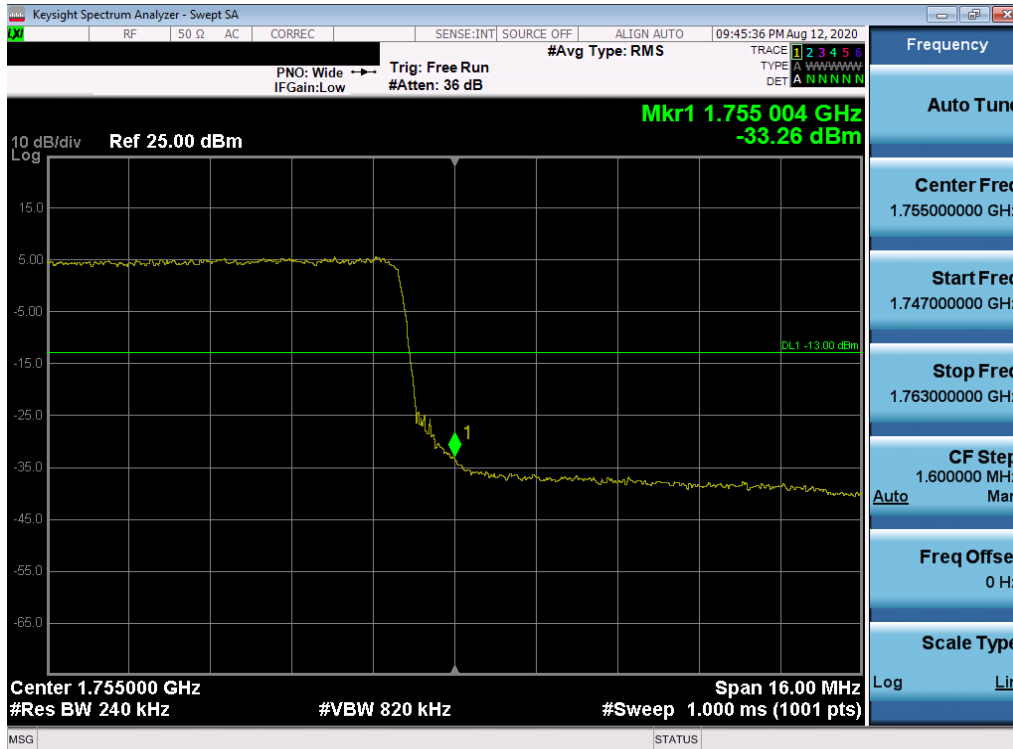


Plot 7-372. Lower Band Edge Plot (LTE Band 66/4 - 20MHz QPSK – Full RB Configuration)

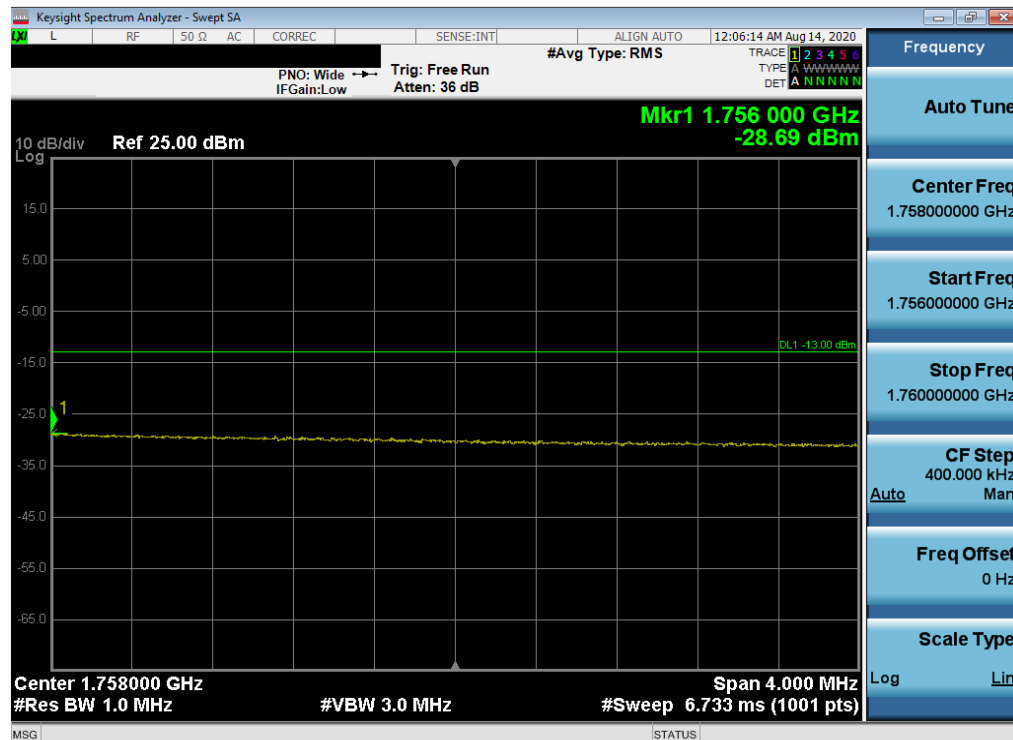


Plot 7-373. Lower Extended Band Edge Plot (LTE Band 66/4 - 20MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 213 of 389

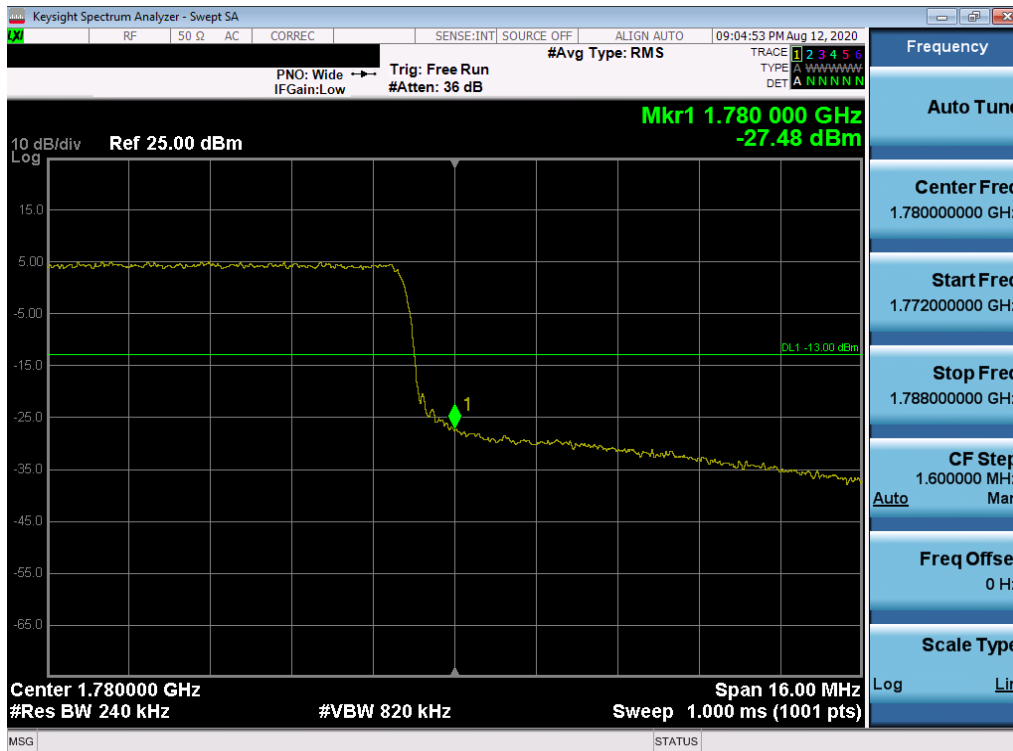


Plot 7-374. Upper Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB Configuration)

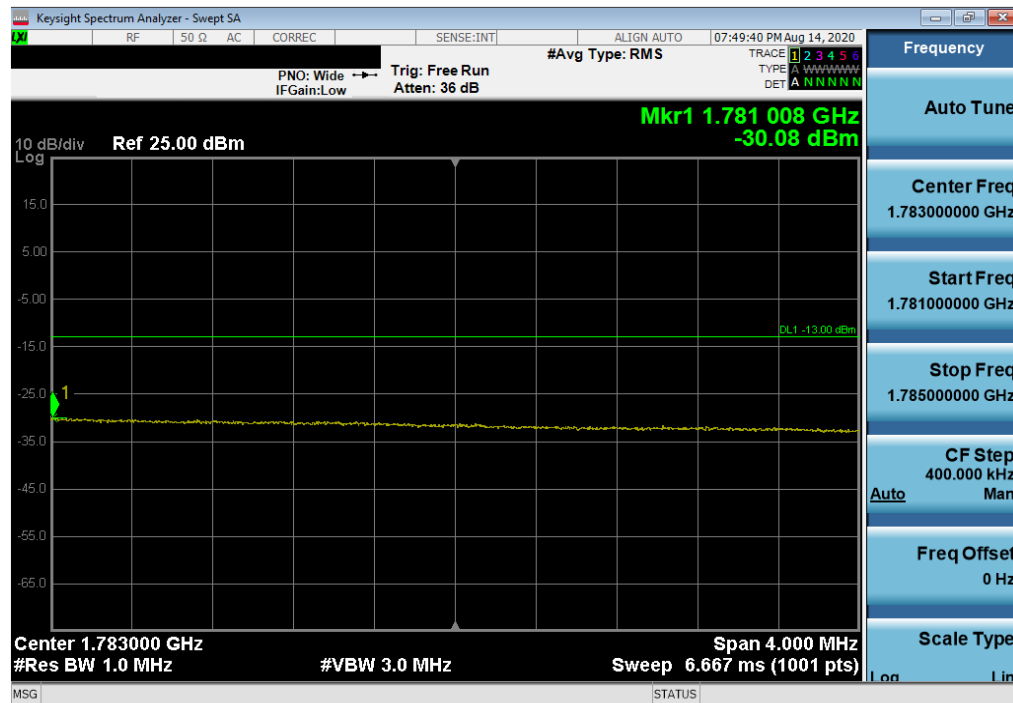


Plot 7-375. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 214 of 389



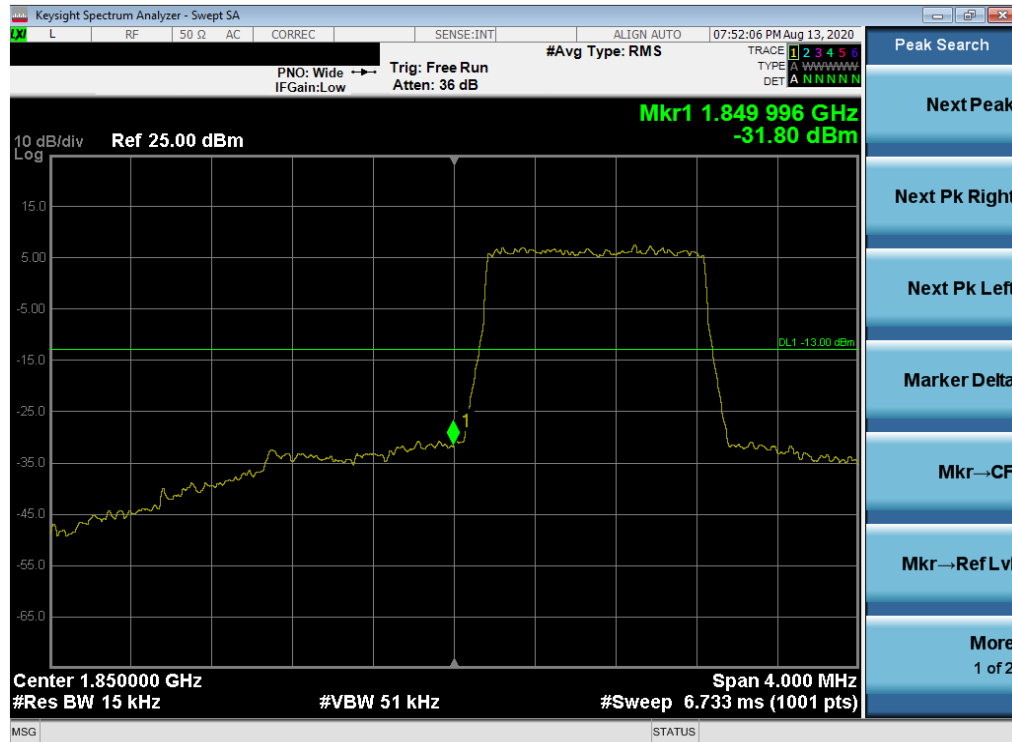
Plot 7-376. Upper Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB Configuration)



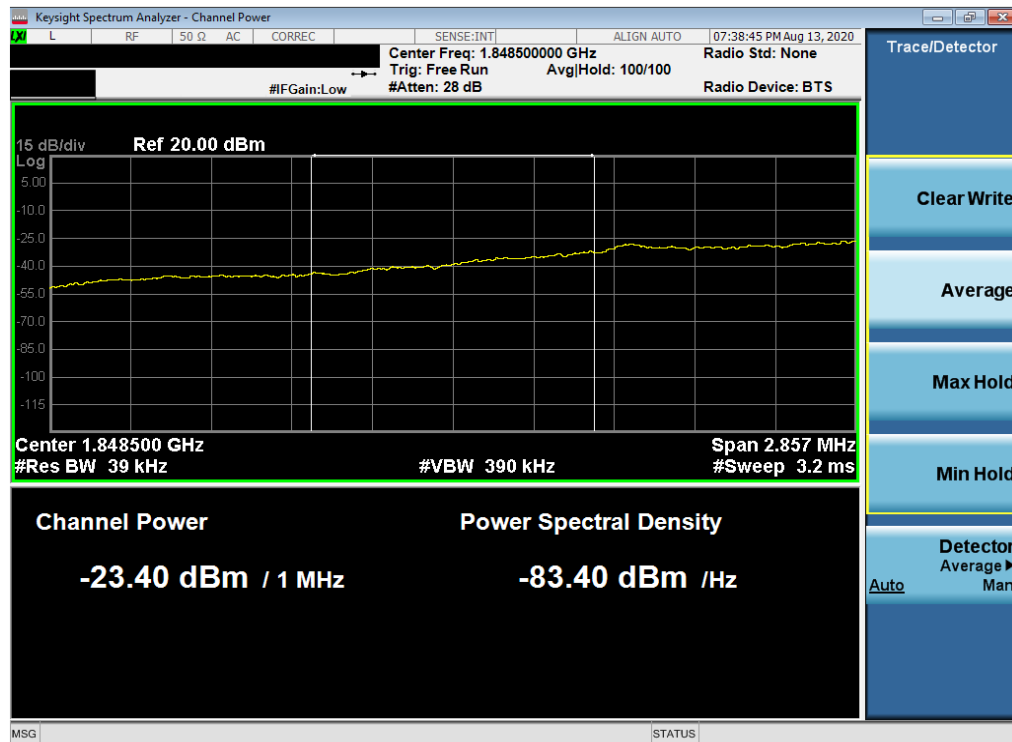
Plot 7-377. Channel Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 215 of 389

LTE Band 25/2



Plot 7-378. Lower Band Edge Plot (LTE Band 25/2 – 1.4MHz QPSK – Full RB Configuration)

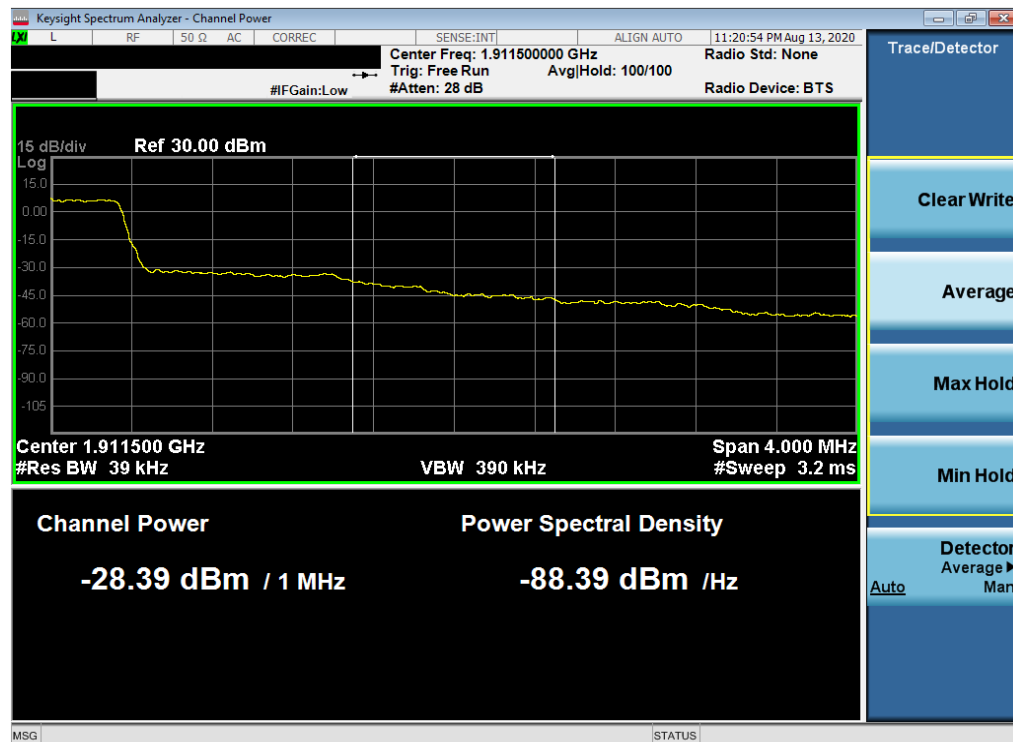


Plot 7-379. Extended Lower Band Edge Plot (LTE Band 25/2 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 216 of 389



Plot 7-380. Upper Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)

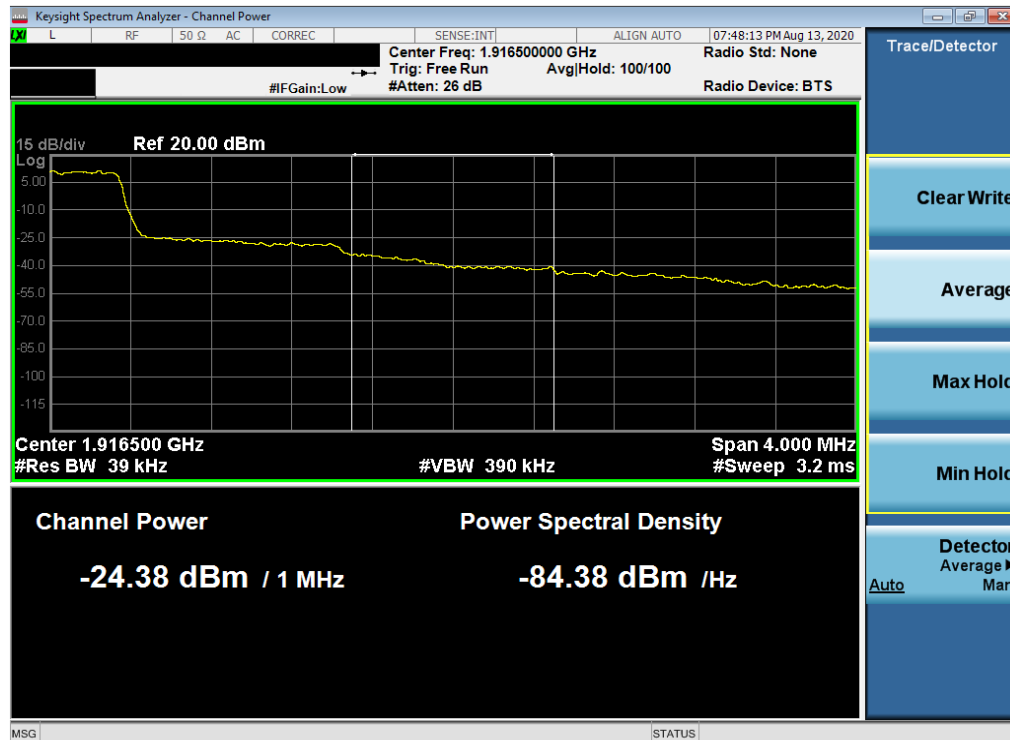


Plot 7-381. Extended Upper Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 217 of 389

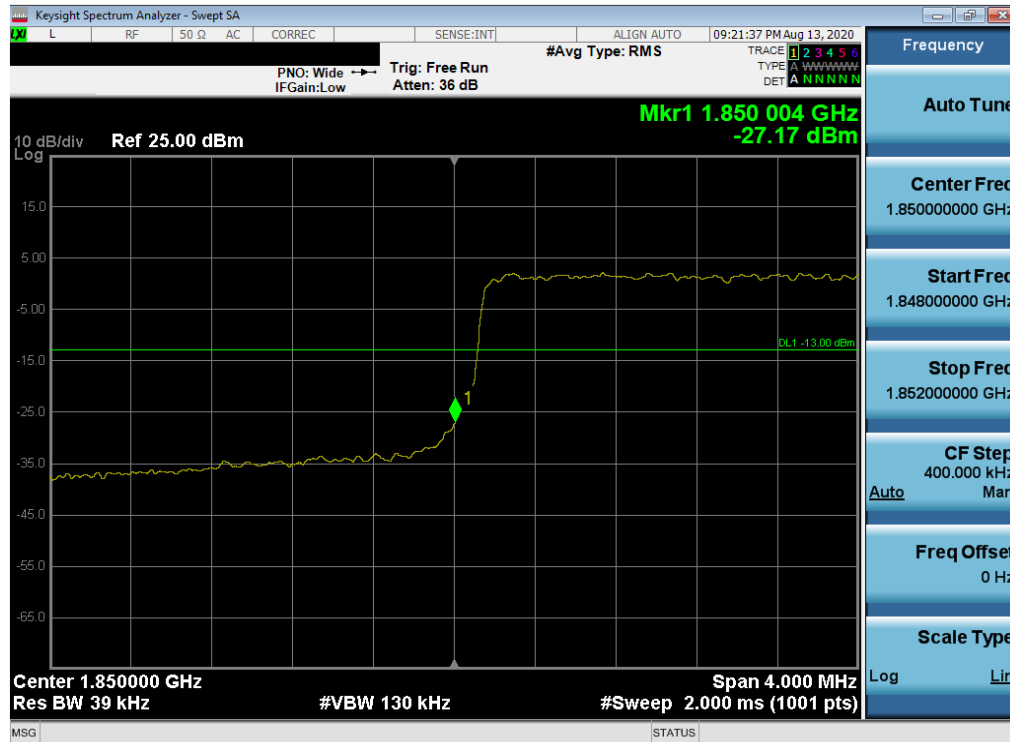


Plot 7-382. Upper Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB Configuration)

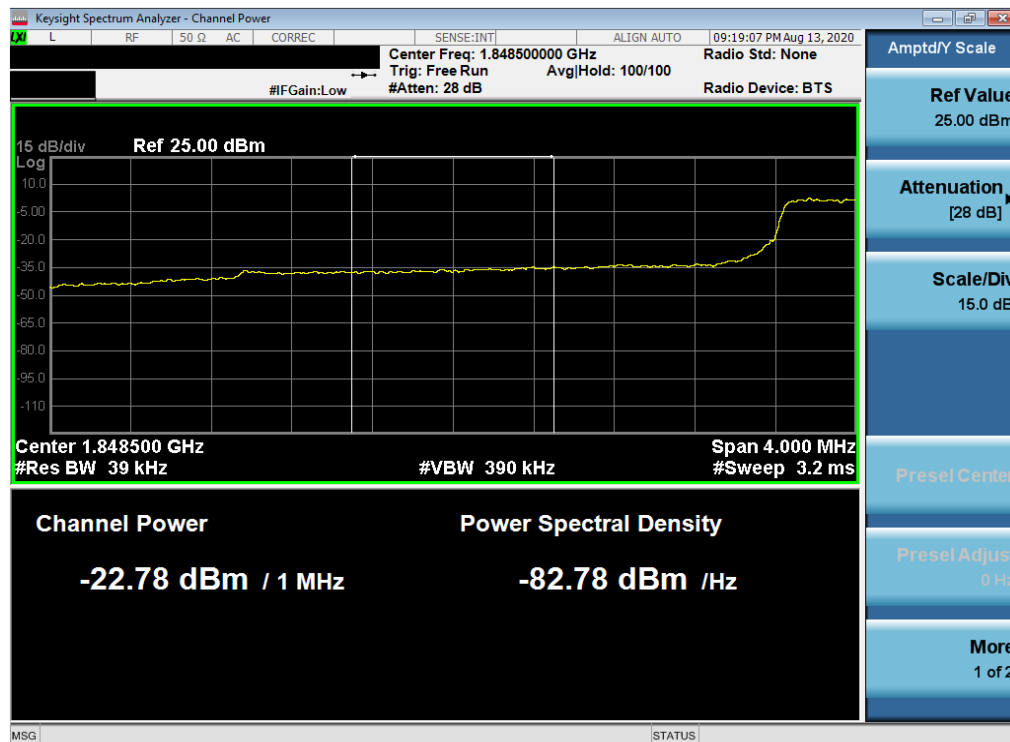


Plot 7-383. Extended Upper Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 218 of 389

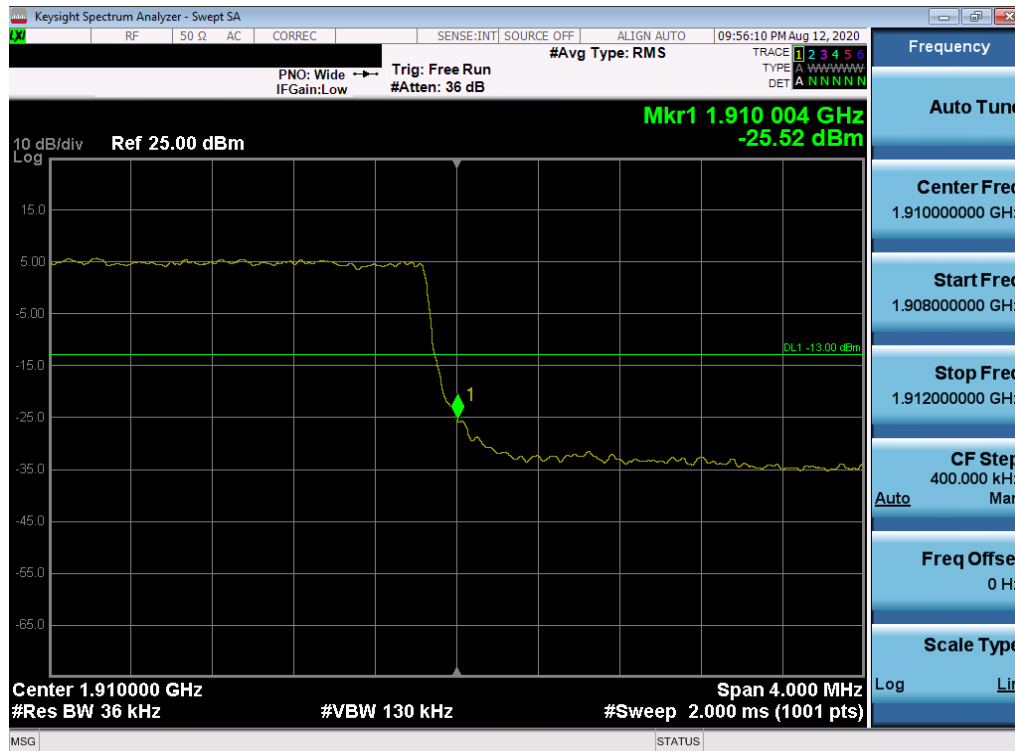


Plot 7-384. Lower Band Edge Plot (LTE Band 25/2 - 3MHz QPSK – Full RB Configuration)

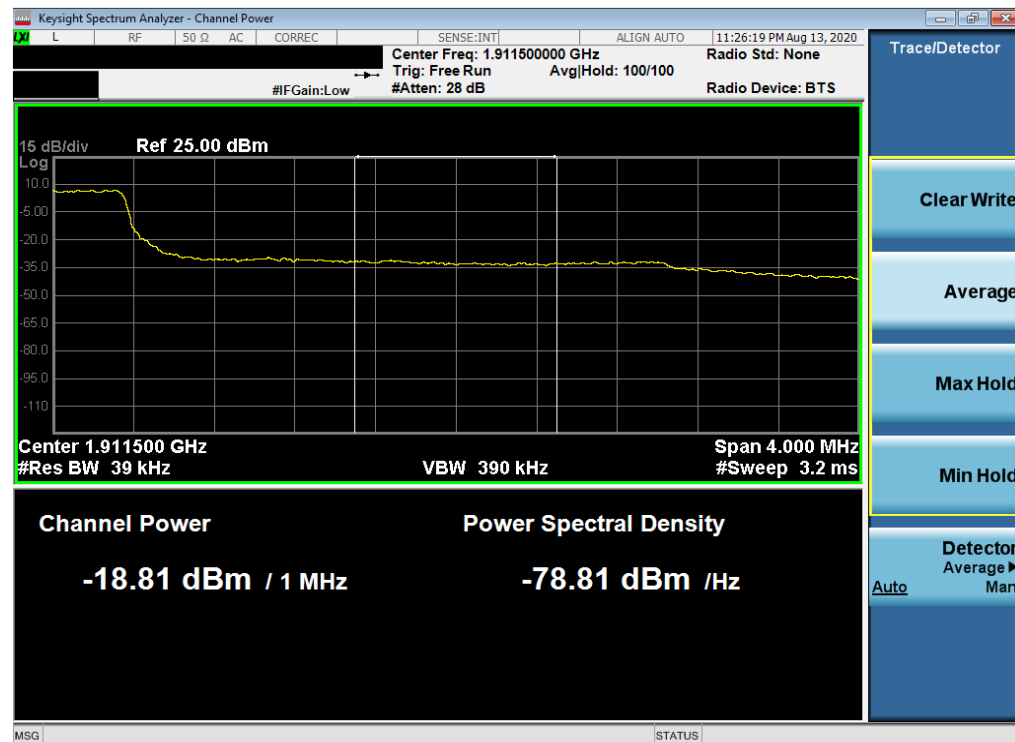


Plot 7-385. Extended Lower Band Edge Plot (LTE Band 25/2 - 3MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 219 of 389



Plot 7-386. Upper Band Edge Plot (LTE Band 2 - 3MHz QPSK – Full RB Configuration)

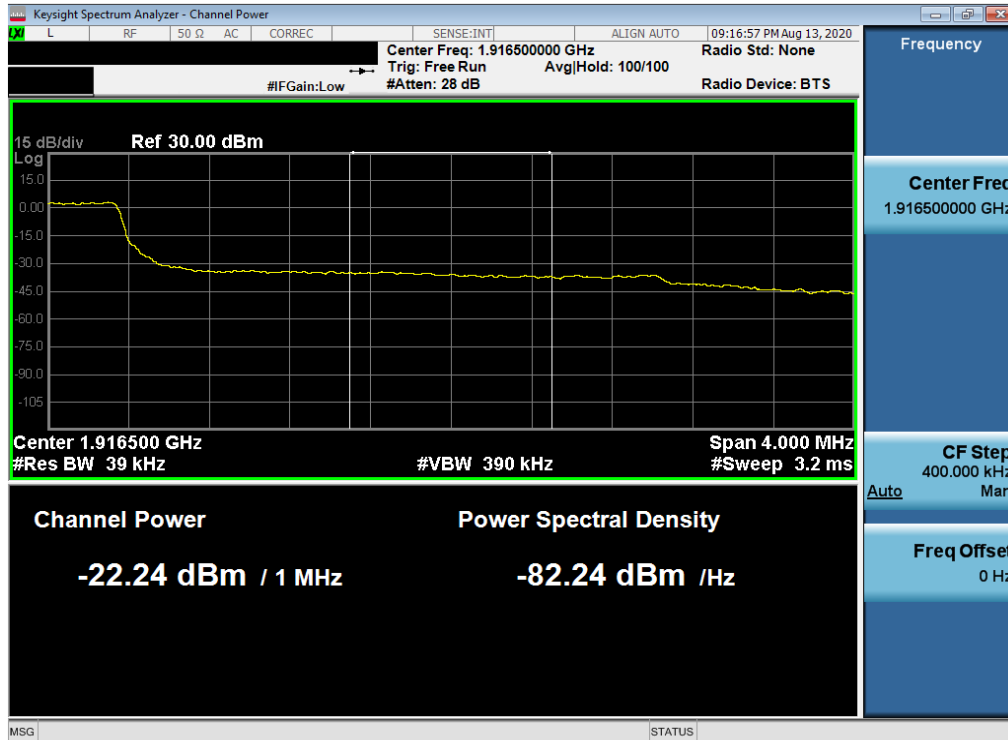


Plot 7-387. Extended Upper Band Edge Plot (LTE Band 2 - 3MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 220 of 389

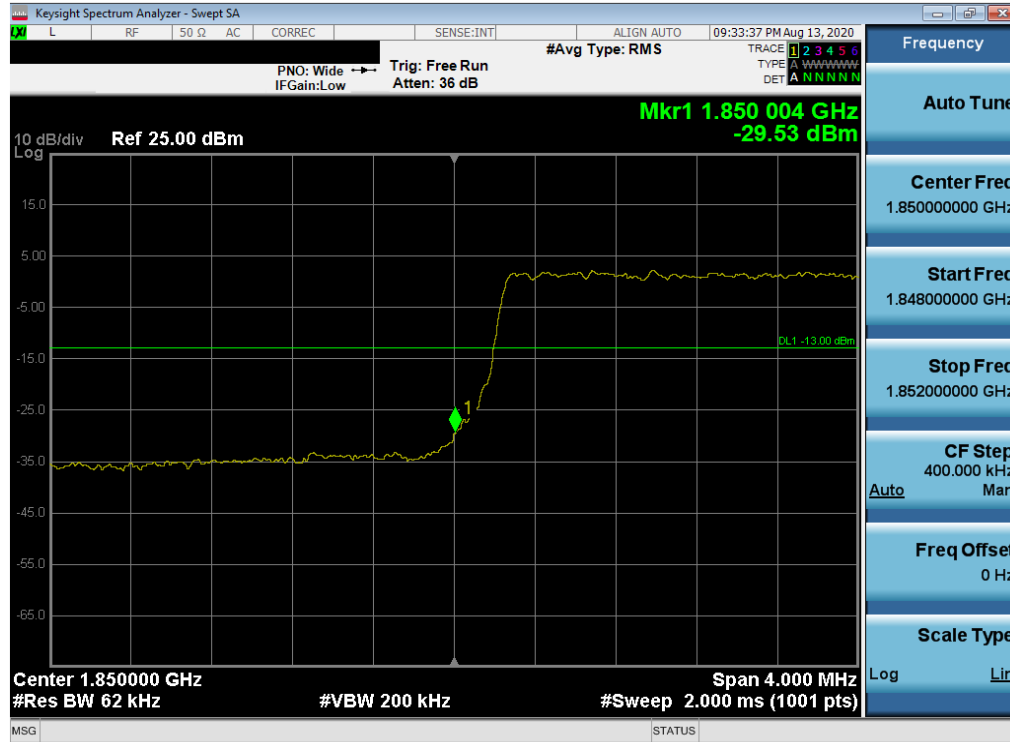


Plot 7-388. Upper Band Edge Plot (LTE Band 25 - 3MHz QPSK – Full RB Configuration)

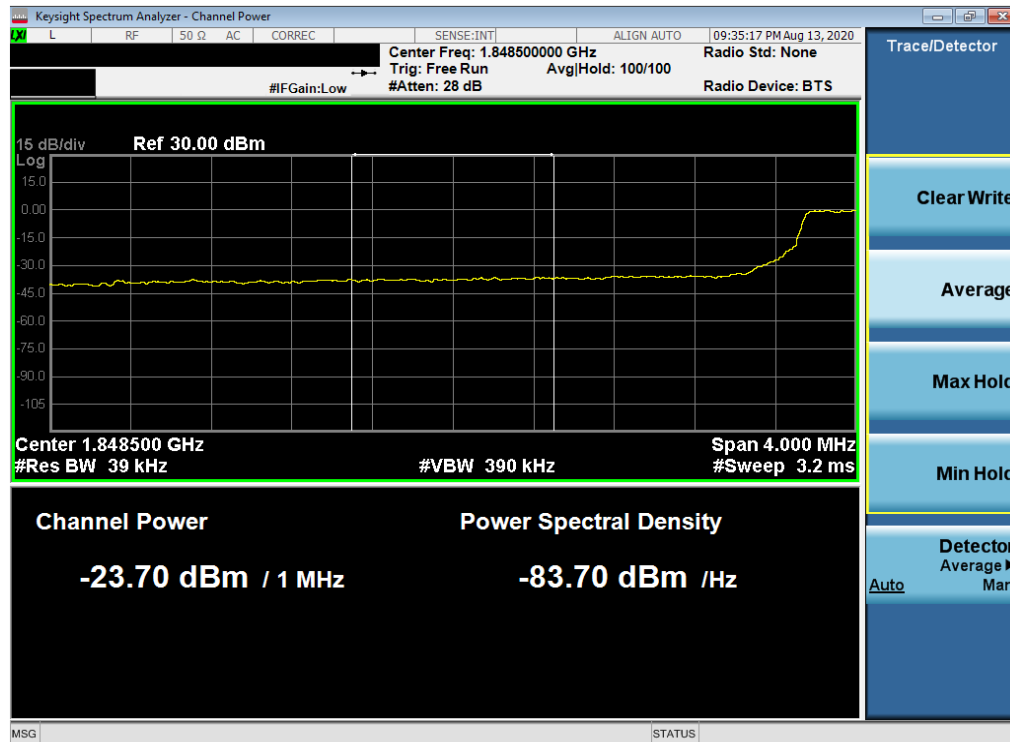


Plot 7-389. Extended Upper Band Edge Plot (LTE Band 25 - 3MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 221 of 389

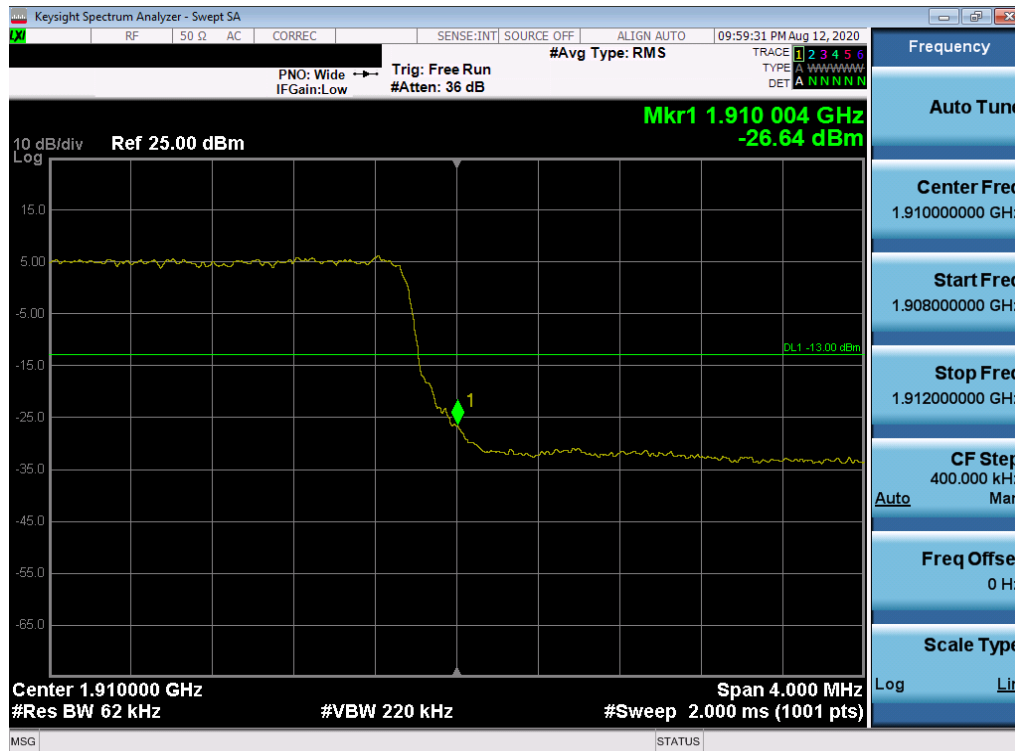


Plot 7-390. Lower Band Edge Plot (LTE Band 25/2 - 5MHz QPSK – Full RB Configuration)

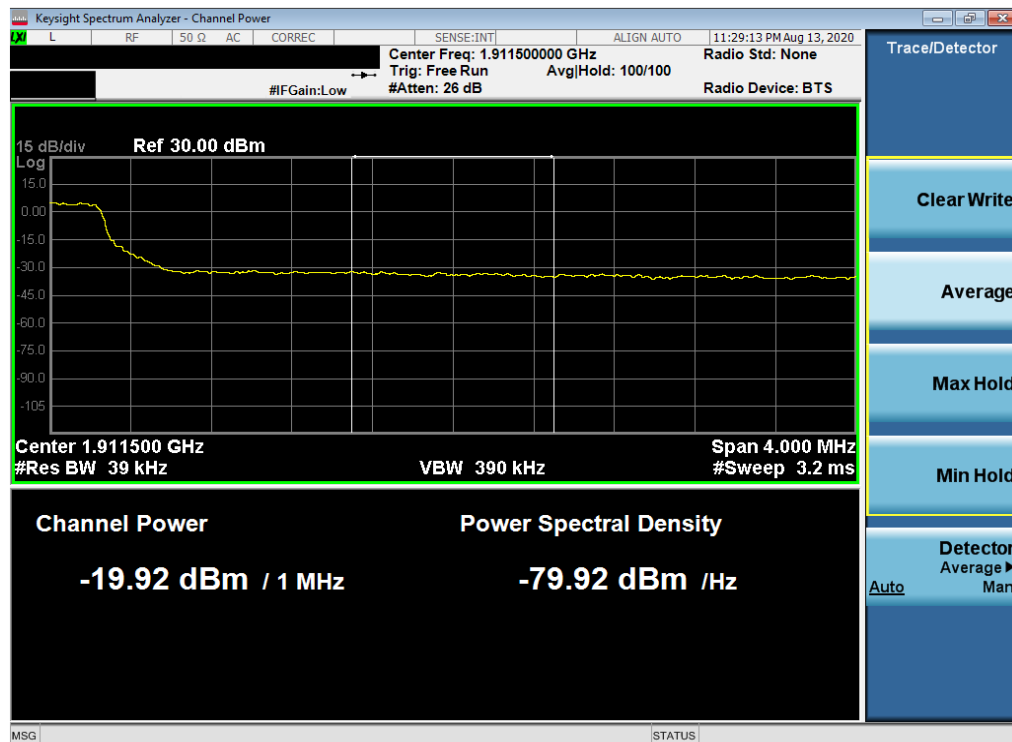


Plot 7-391. Extended Lower Band Edge Plot (LTE Band 25/2 - 5MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 222 of 389

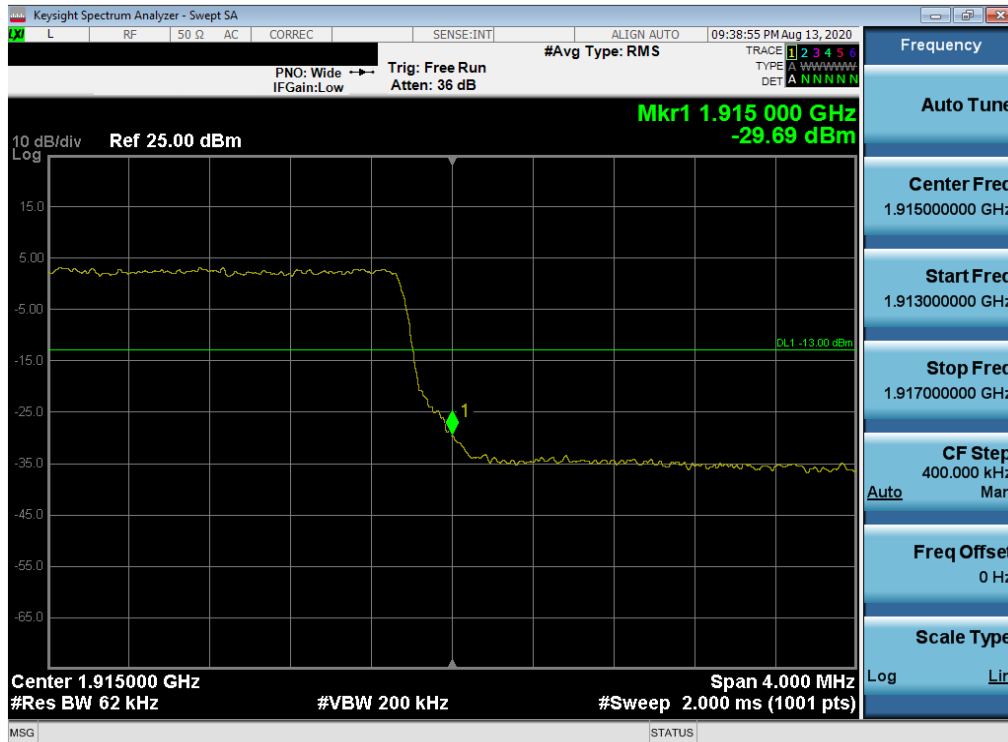


Plot 7-392. Upper Band Edge Plot (LTE Band 2 - 5MHz QPSK – Full RB Configuration)

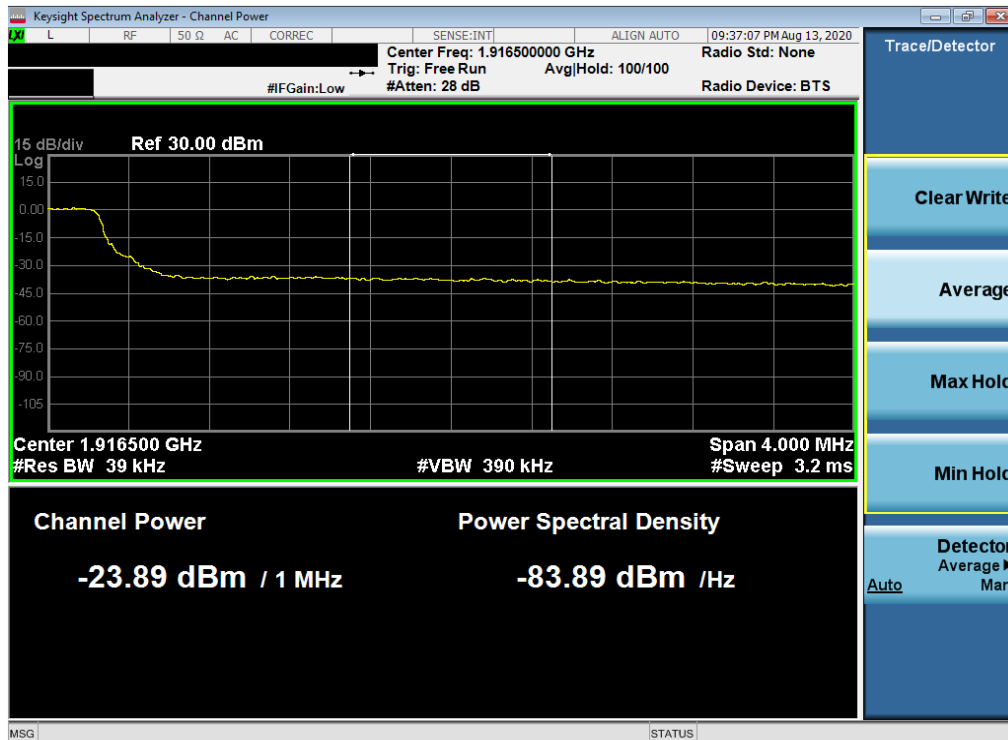


Plot 7-393. Extended Upper Band Edge Plot (LTE Band 2 - 5MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 223 of 389

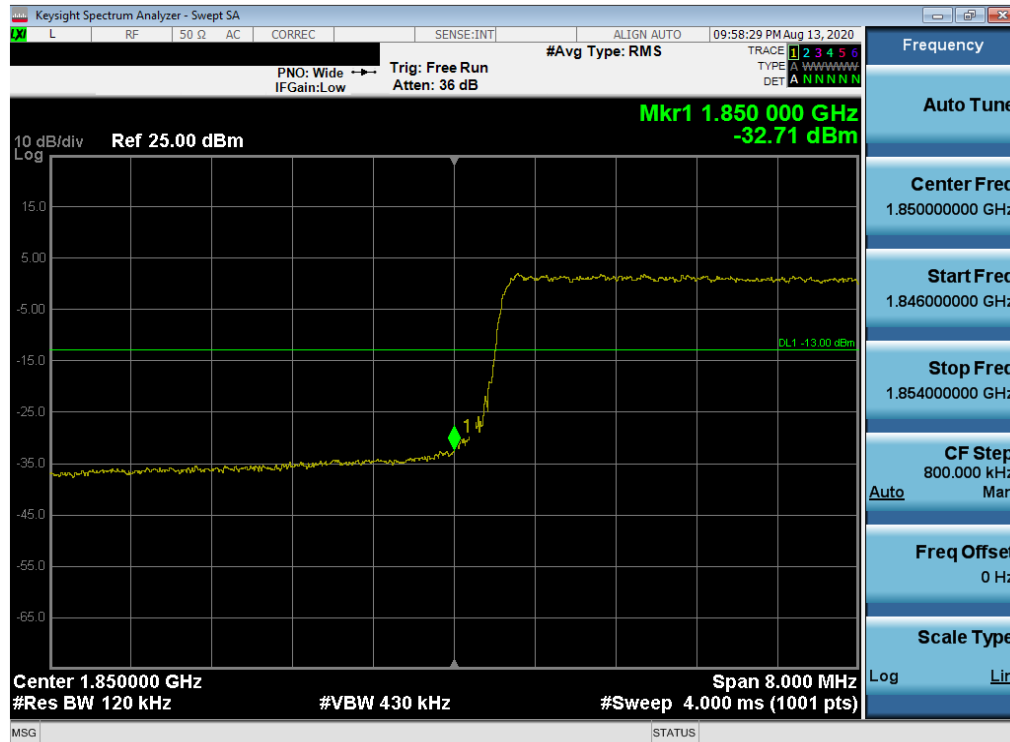


Plot 7-394. Upper Band Edge Plot (LTE Band 25 - 5MHz QPSK – Full RB Configuration)

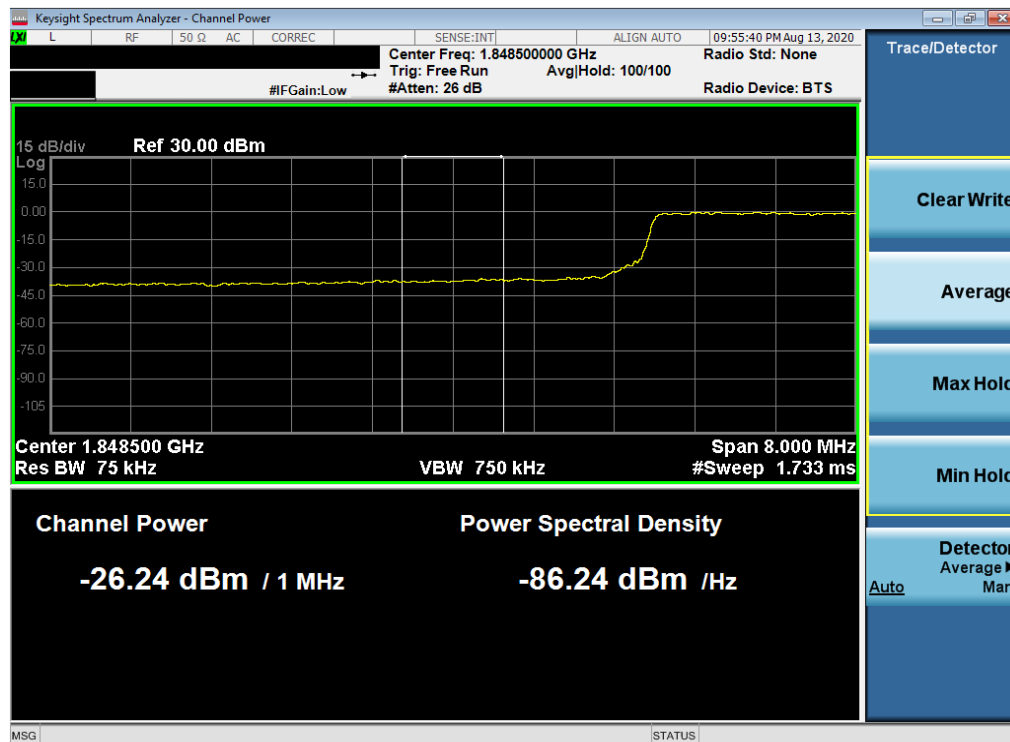


Plot 7-395. Extended Upper Band Edge Plot (LTE Band 25 - 5MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 224 of 389

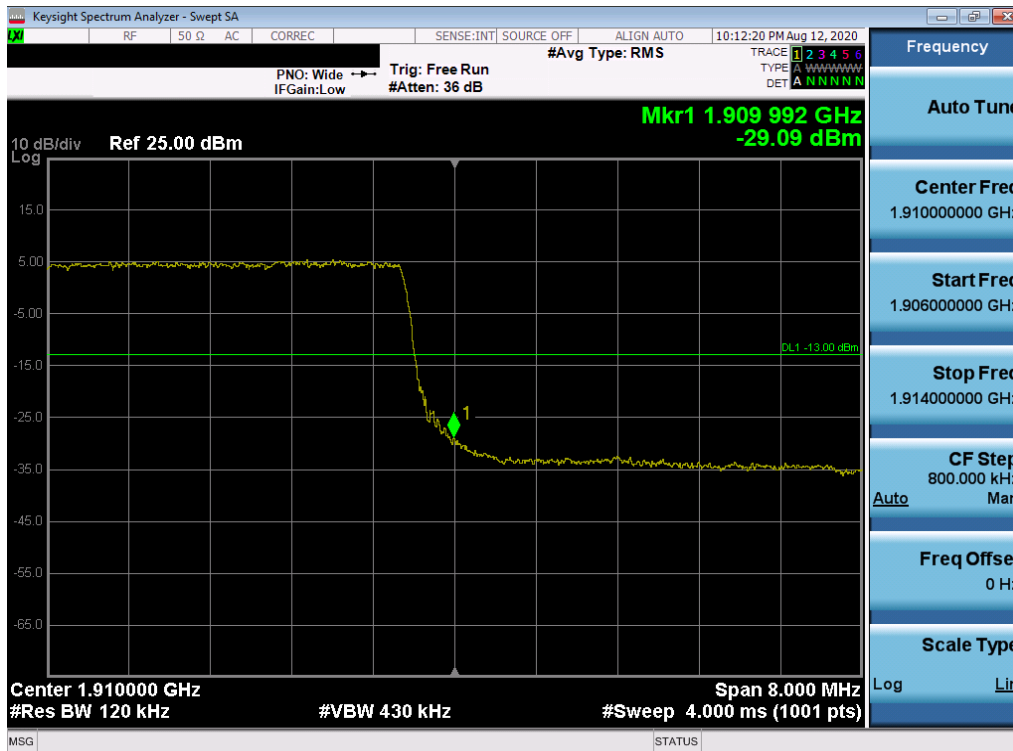


Plot 7-396. Lower Band Edge Plot (LTE Band 25/2 - 10MHz QPSK – Full RB Configuration)

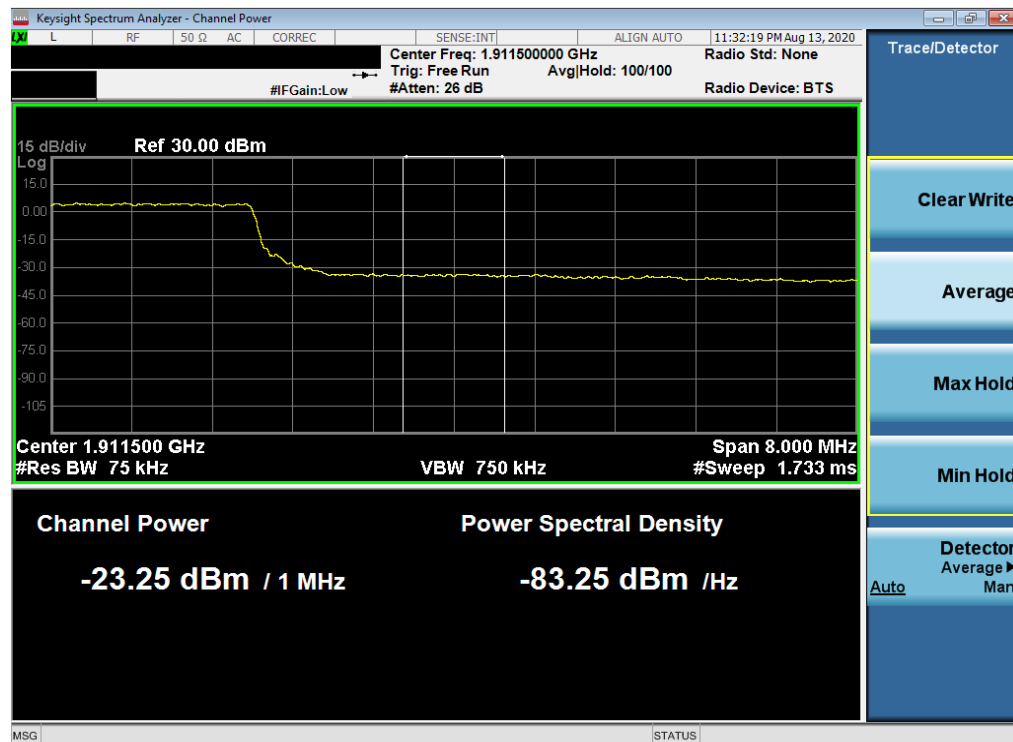


Plot 7-397. Extended Lower Band Edge Plot (LTE Band 25/2 - 10MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 225 of 389

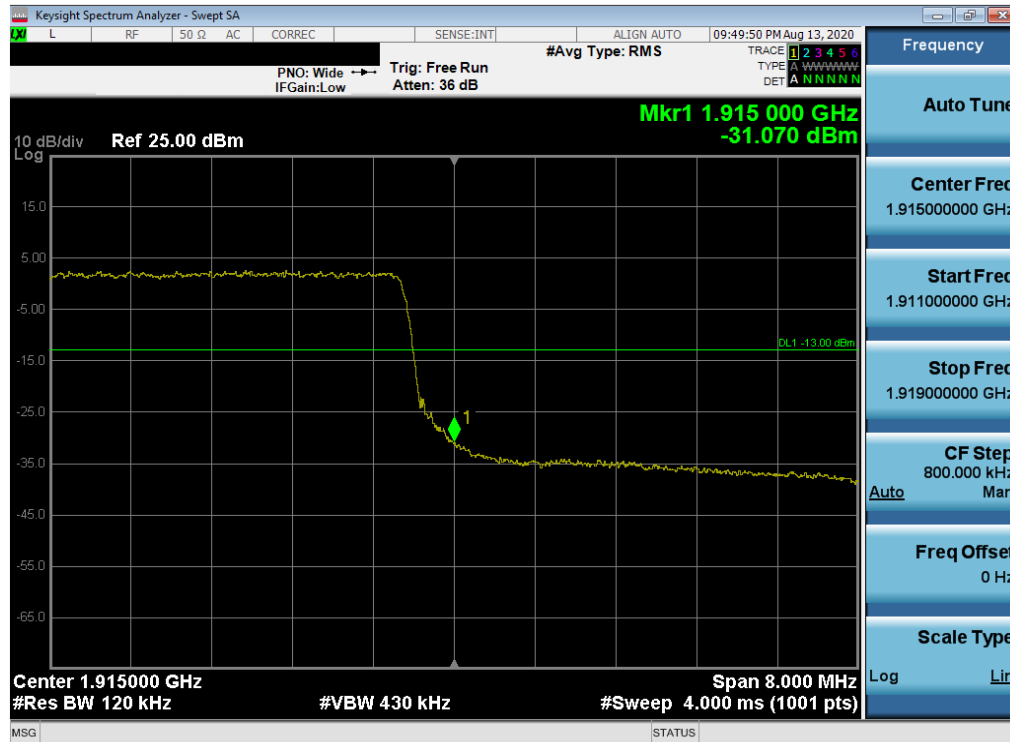


Plot 7-398. Upper Band Edge Plot (LTE Band 2 - 10MHz QPSK – Full RB Configuration)

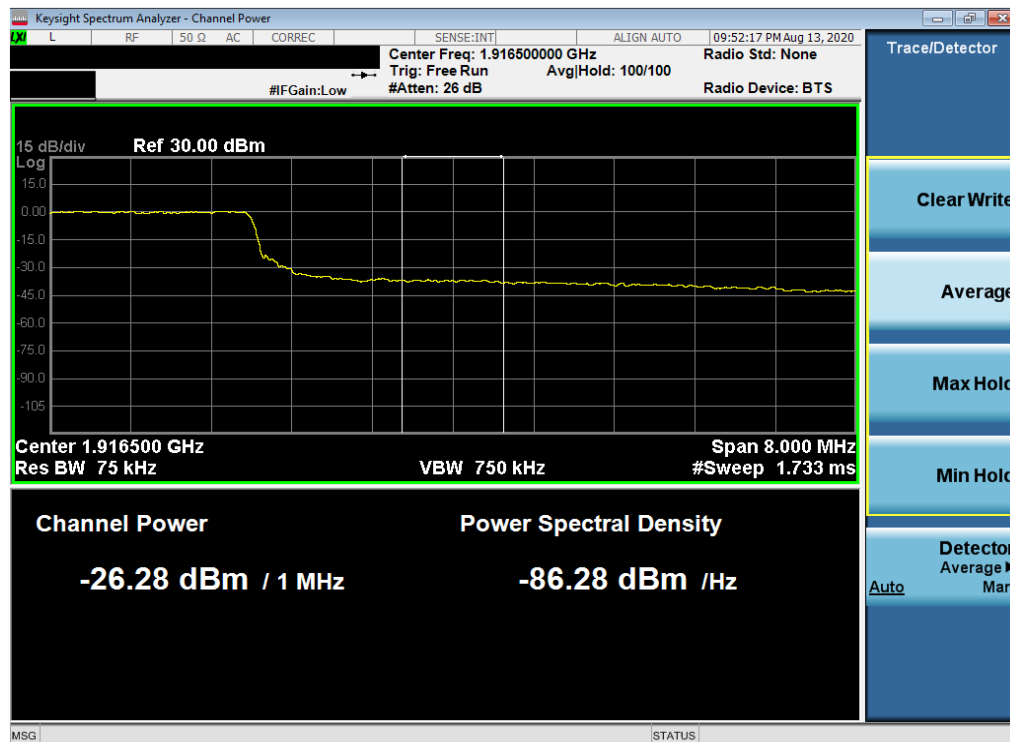


Plot 7-399. Extended Upper Band Edge Plot (LTE Band 2 - 10MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 226 of 389

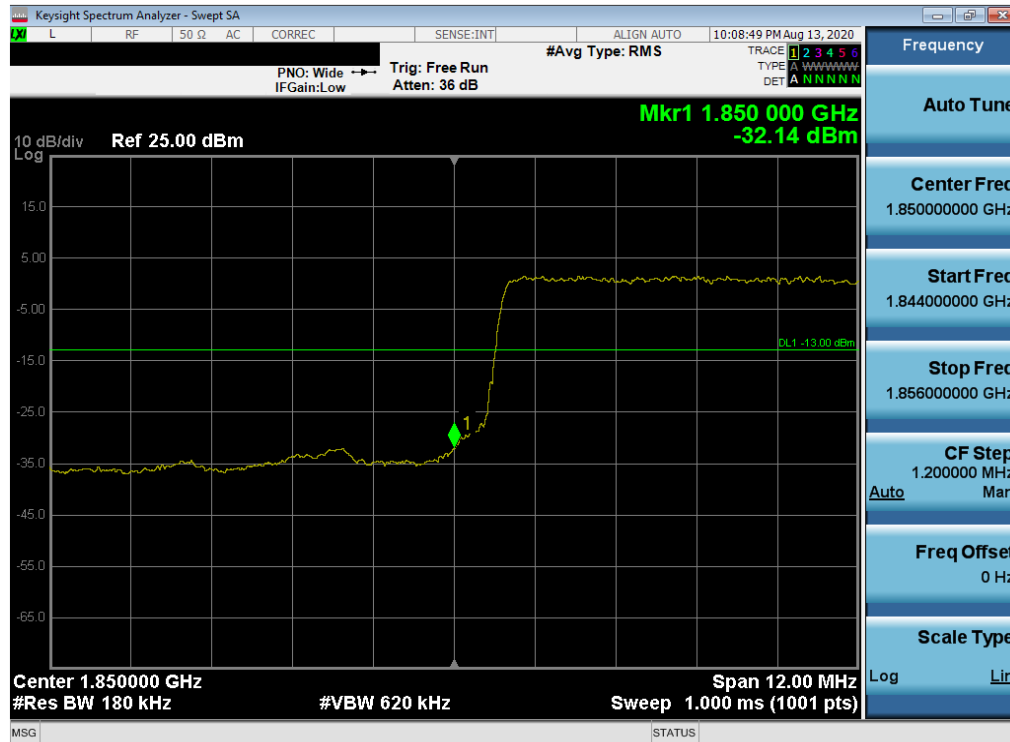


Plot 7-400. Upper Band Edge Plot (LTE Band 25 - 10MHz QPSK – Full RB Configuration)

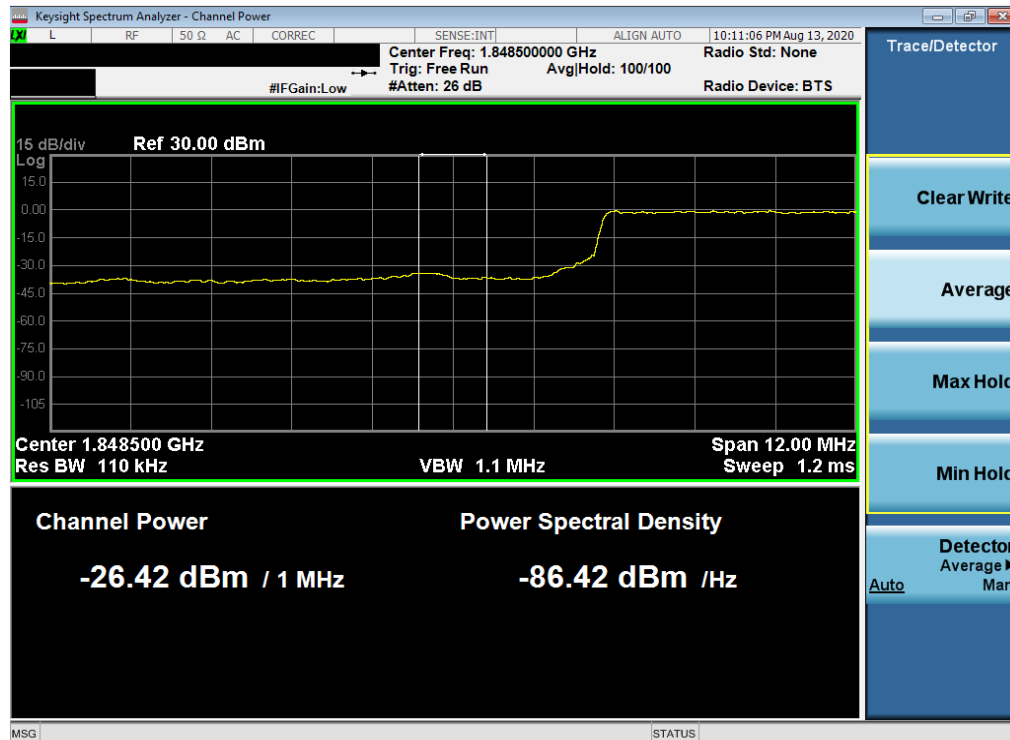


Plot 7-401. Extended Upper Band Edge Plot (LTE Band 25 - 10MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 227 of 389

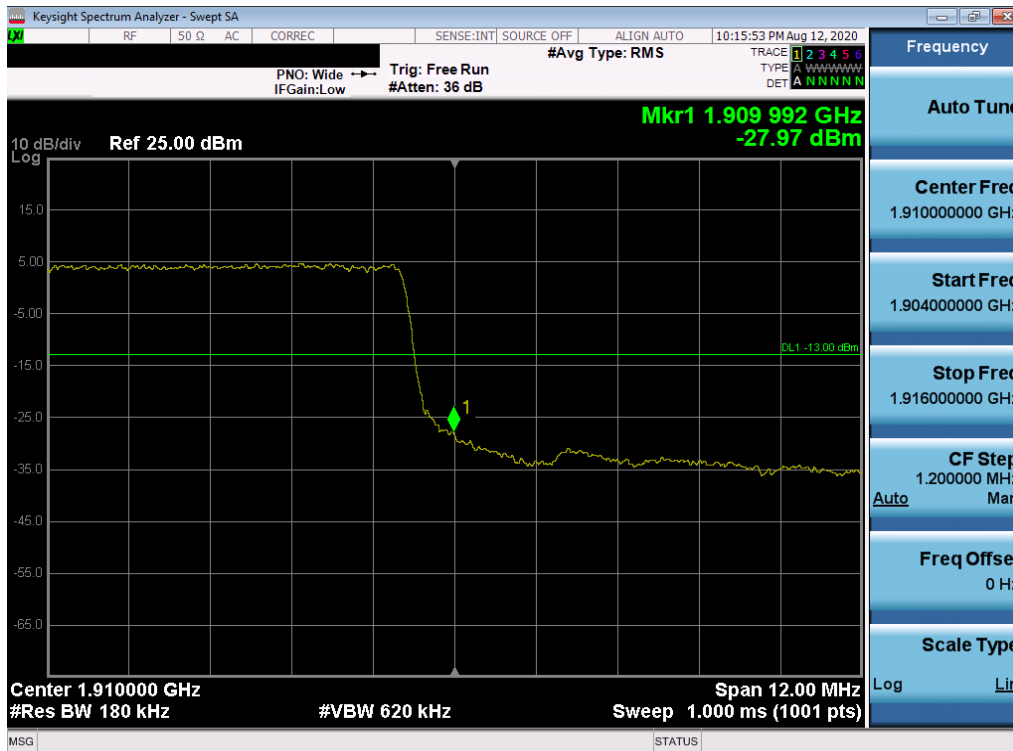


Plot 7-402. Lower Band Edge Plot (LTE Band 25/2 - 15MHz QPSK – Full RB Configuration)

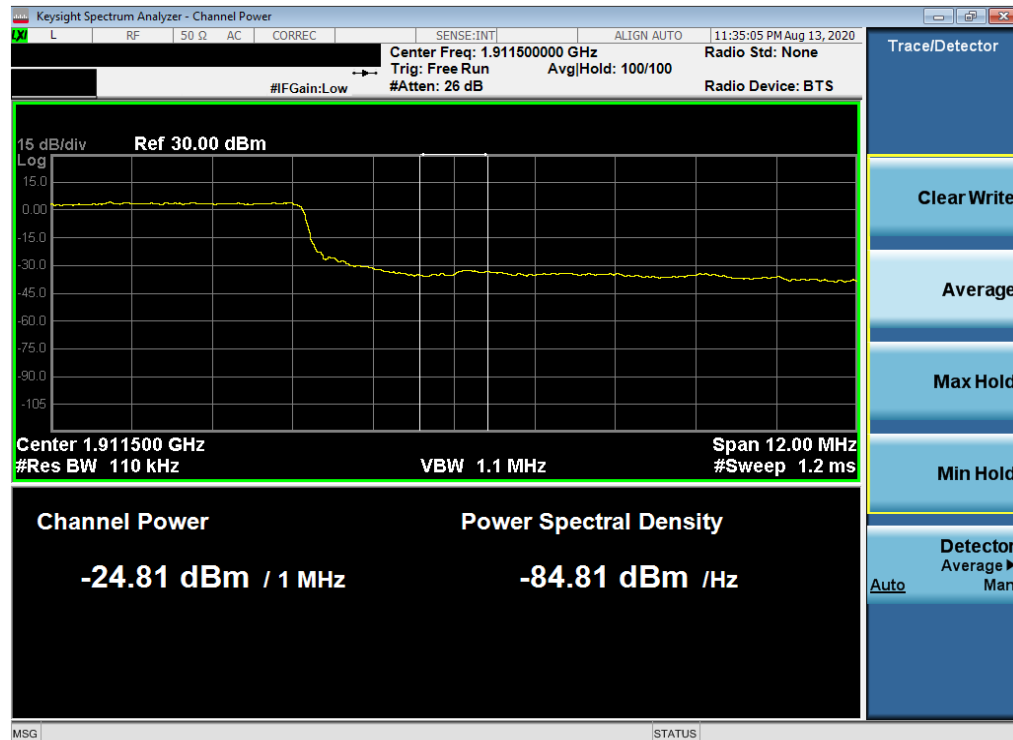


Plot 7-403. Extended Lower Band Edge Plot (LTE Band 25/2 - 15MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 228 of 389



Plot 7-404. Upper Band Edge Plot (LTE Band 2 - 15MHz QPSK – Full RB Configuration)

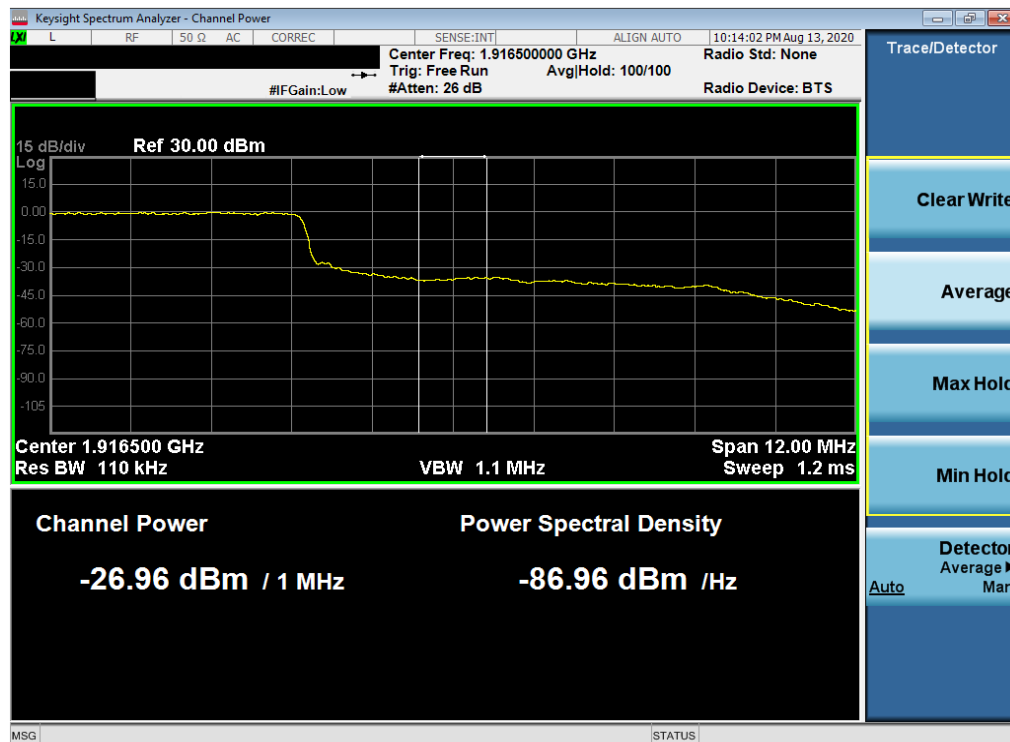


Plot 7-405. Extended Upper Band Edge Plot (LTE Band 2 - 15MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 229 of 389

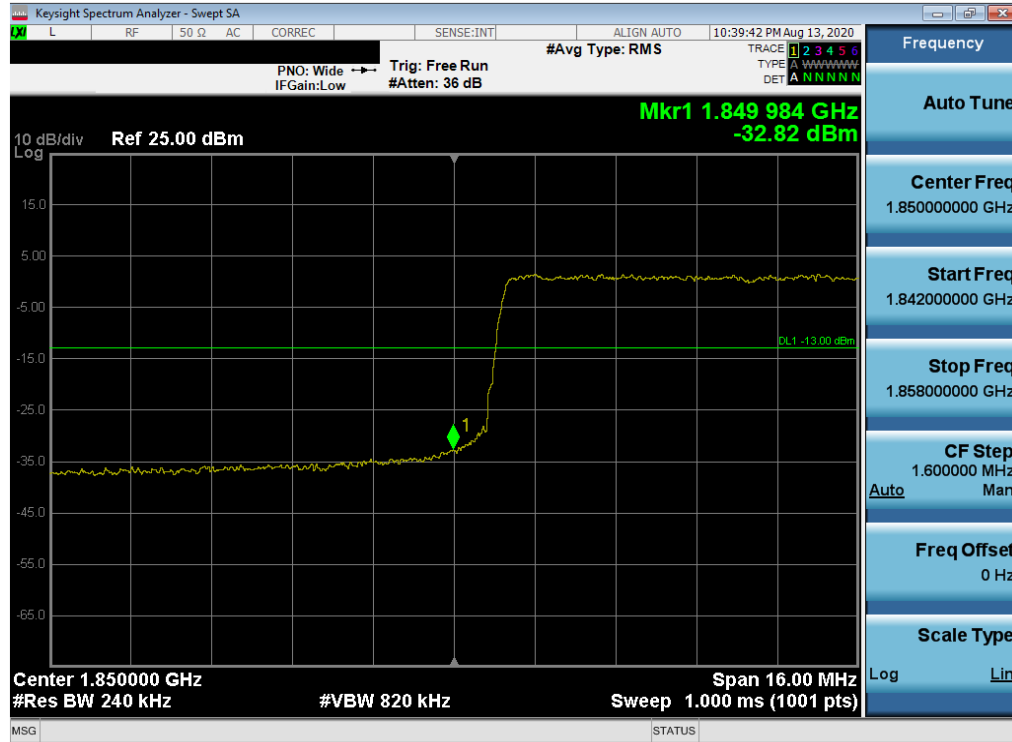


Plot 7-406. Upper Band Edge Plot (LTE Band 25 - 15MHz QPSK – Full RB Configuration)

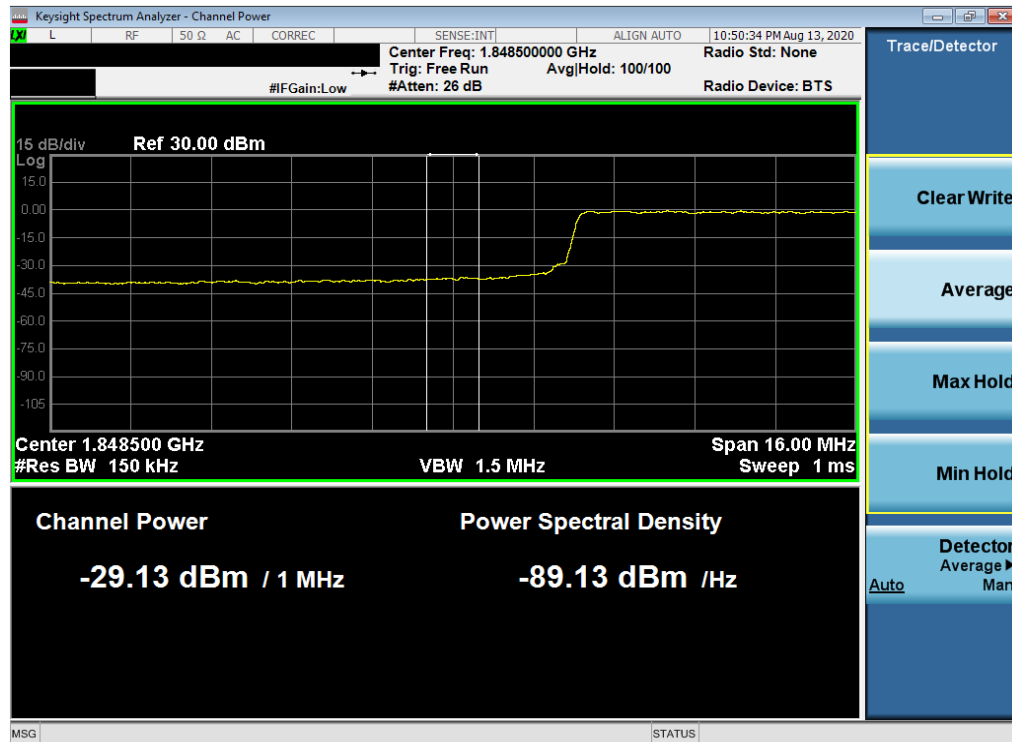


Plot 7-407. Extended Upper Band Edge Plot (LTE Band 25 - 15MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 230 of 389



Plot 7-408. Lower Band Edge Plot (LTE Band 25/2 - 20MHz QPSK – Full RB Configuration)

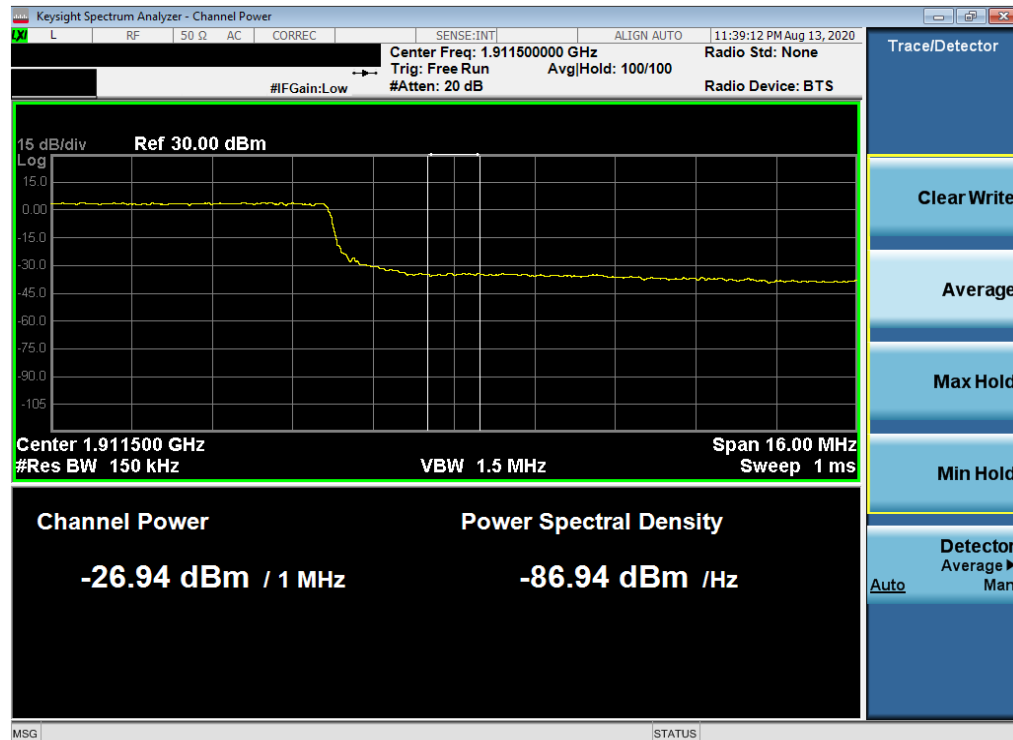


Plot 7-409. Extended Lower Band Edge Plot (LTE Band 25/2 - 20MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 231 of 389

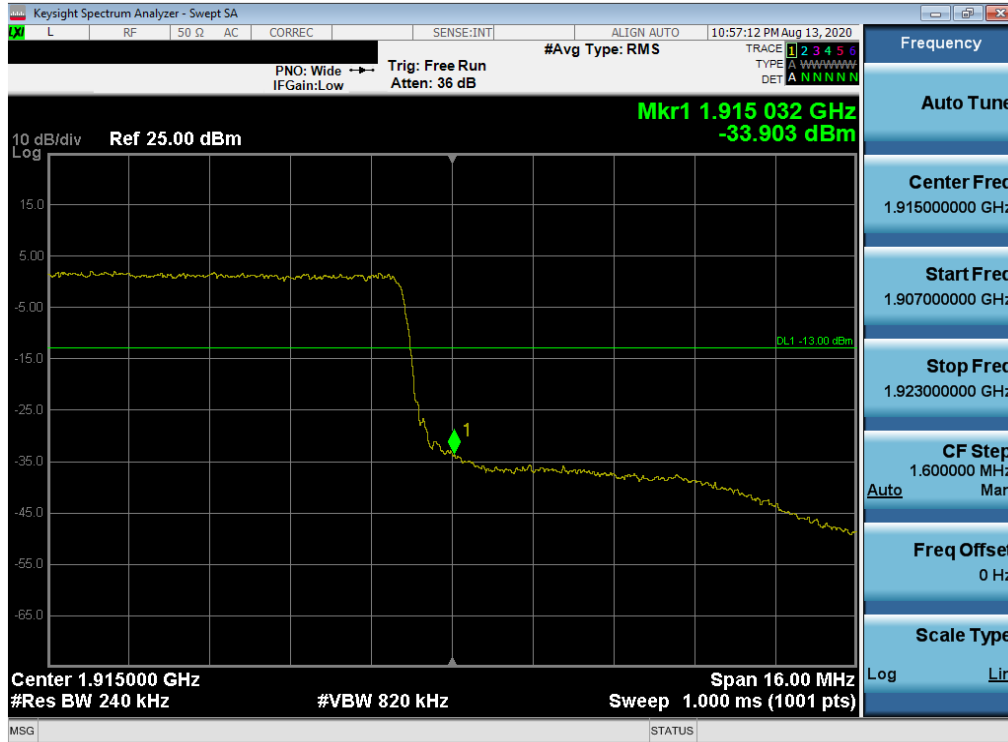


Plot 7-410. Upper Band Edge Plot (LTE Band 2 - 20MHz QPSK – Full RB Configuration)

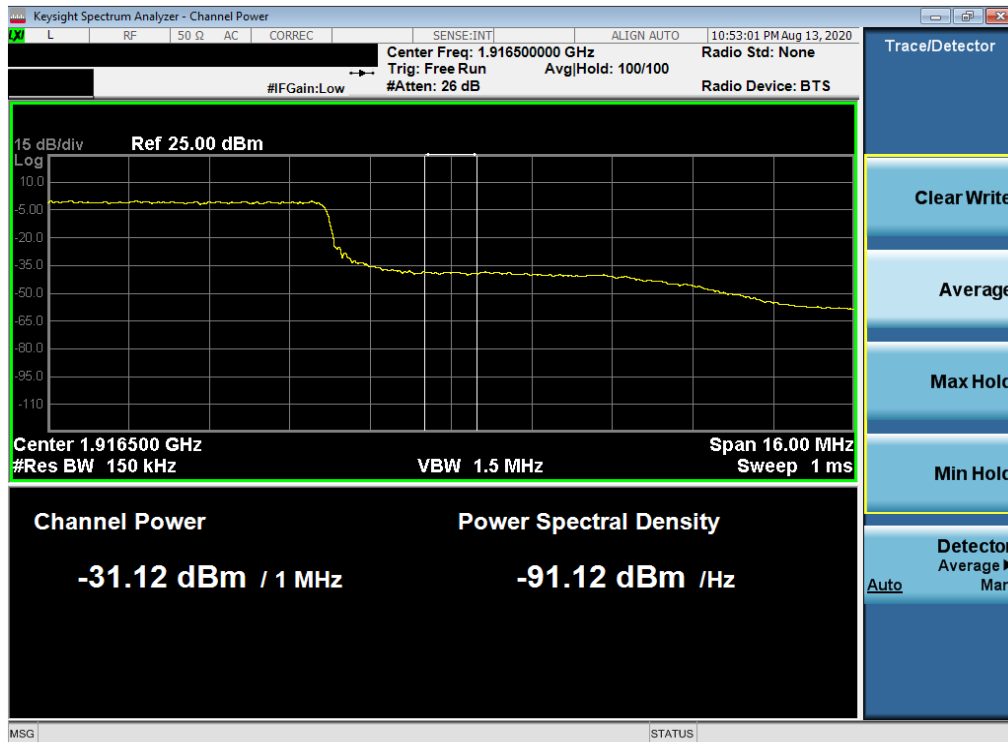


Plot 7-411. Extended Upper Band Edge Plot (LTE Band 2 - 20MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 232 of 389



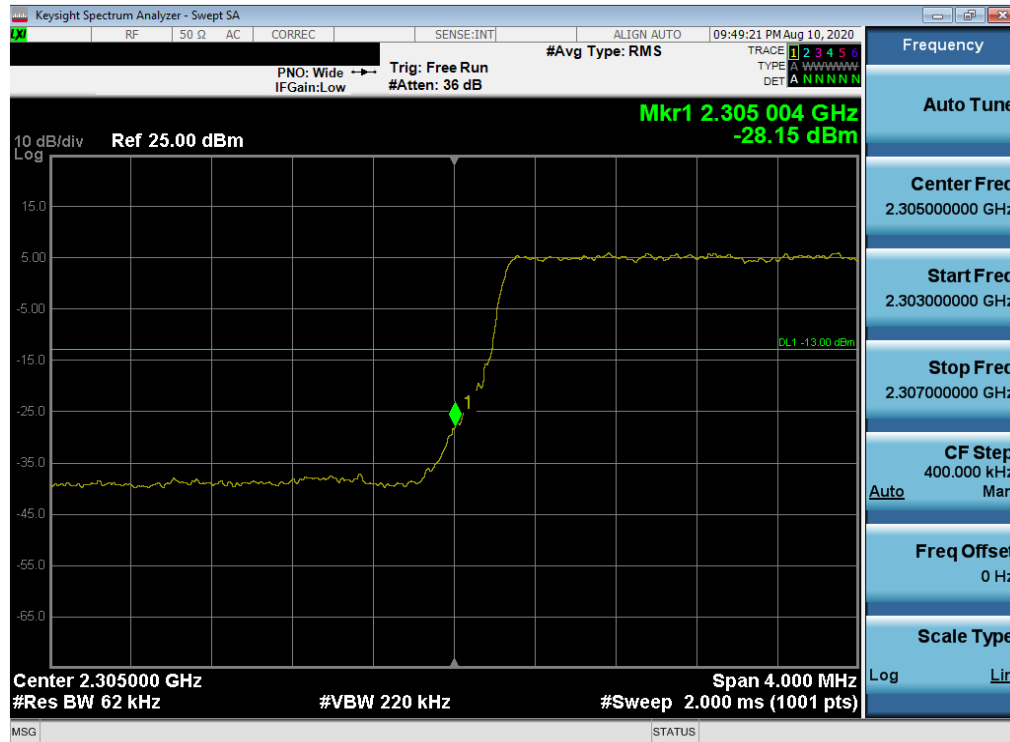
Plot 7-412. Upper Band Edge Plot (LTE Band 25 - 20MHz QPSK – Full RB Configuration)



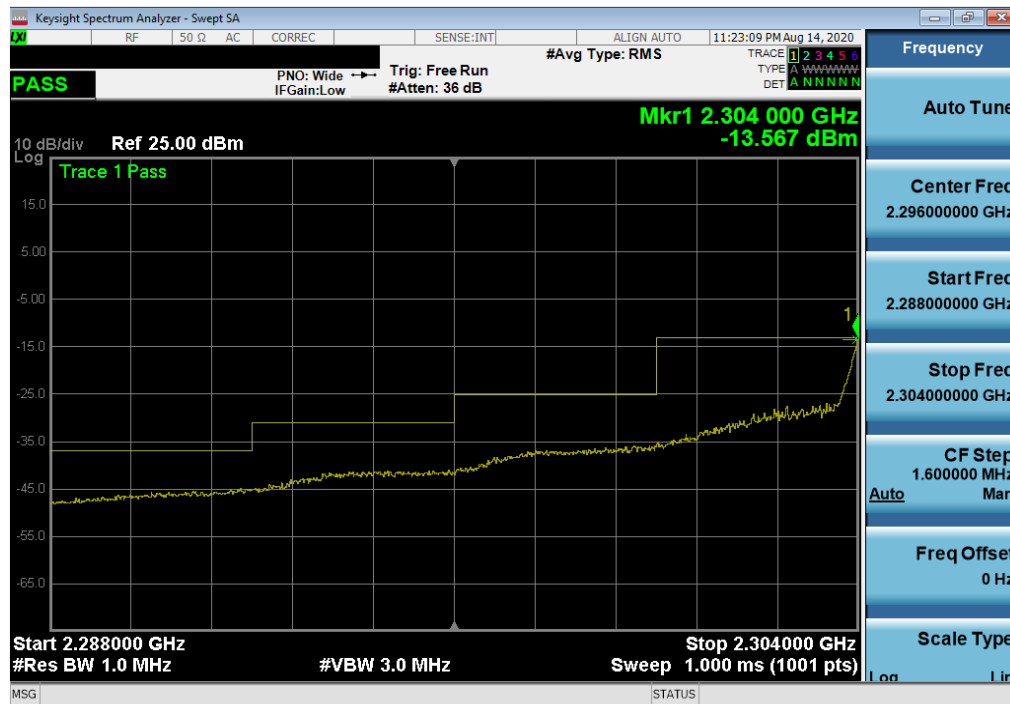
Plot 7-413. Extended Upper Band Edge Plot (LTE Band 25 - 20MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 233 of 389

LTE Band 30

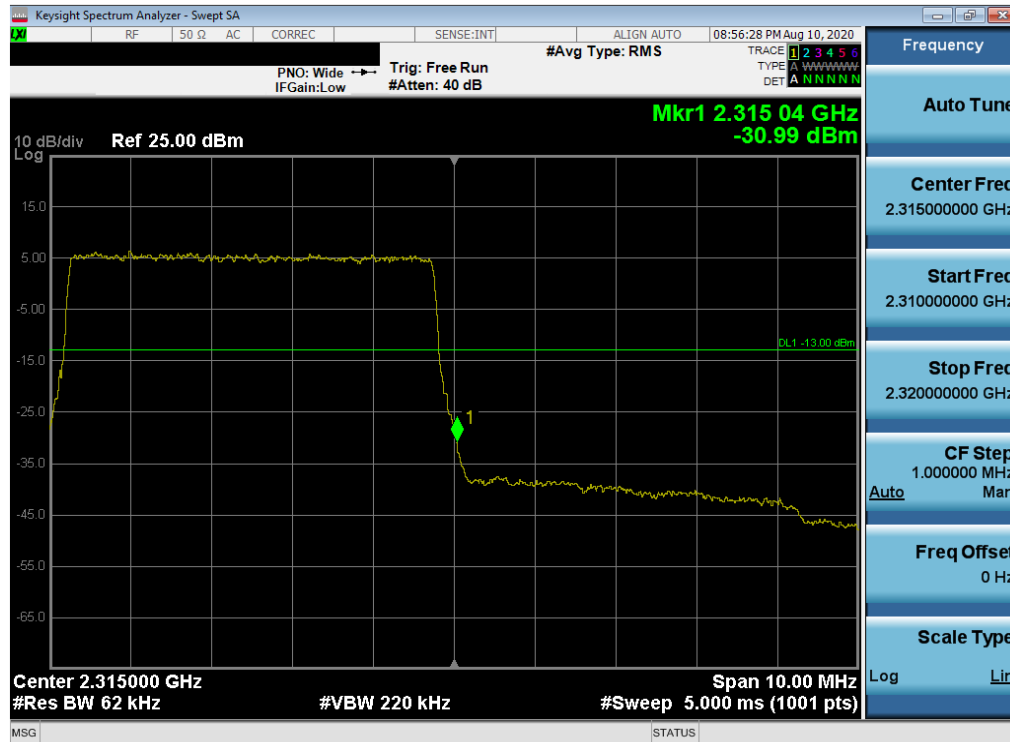


Plot 7-414. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB Configuration)



Plot 7-415. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 234 of 389

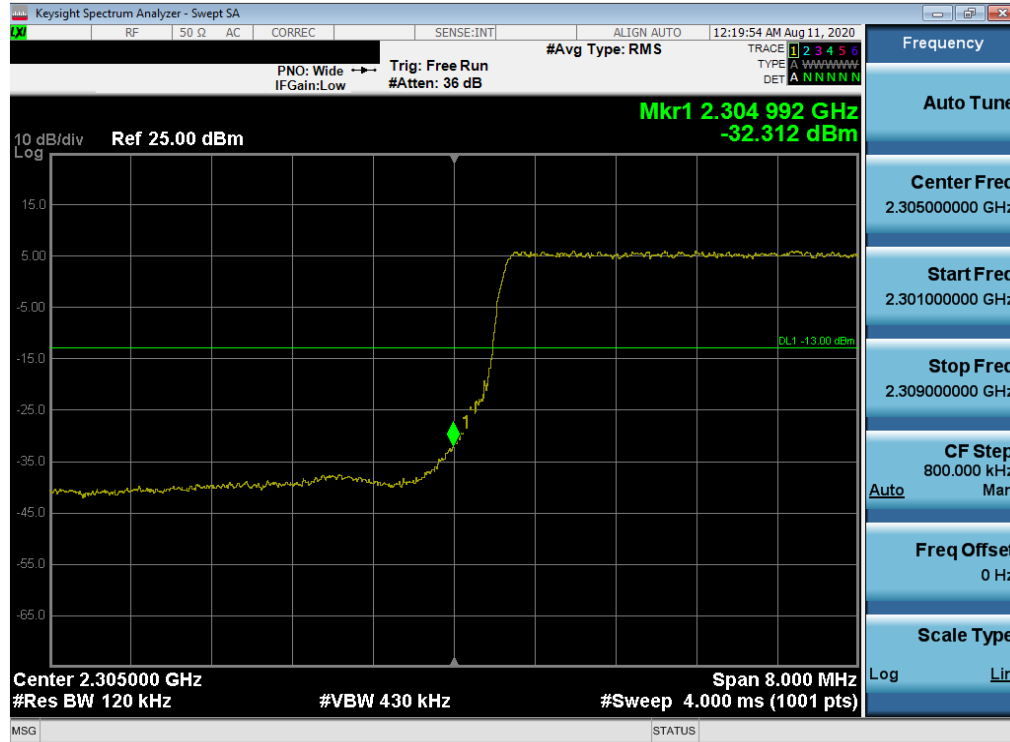


Plot 7-416. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB Configuration)

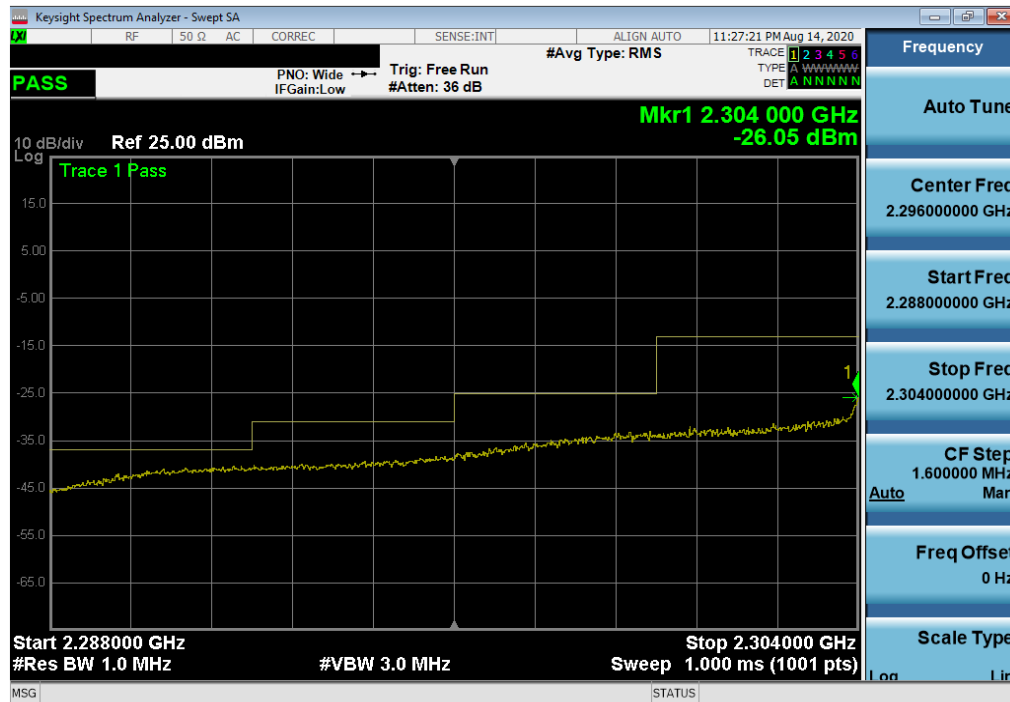


Plot 7-417. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 235 of 389

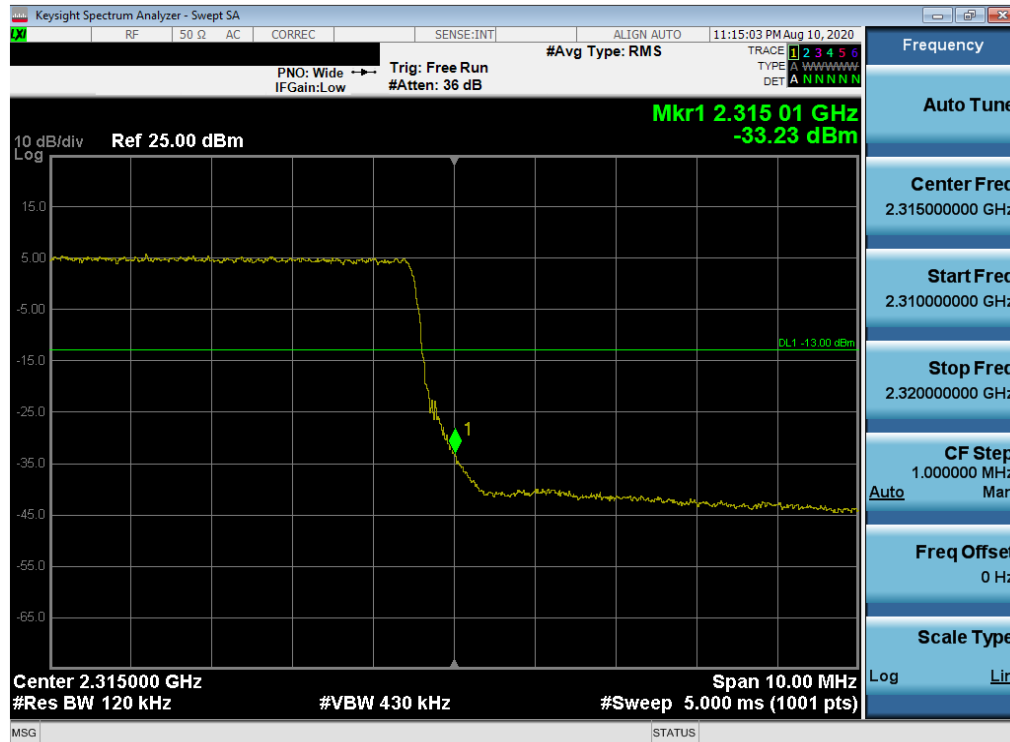


Plot 7-418. Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB Configuration)



Plot 7-419. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 236 of 389



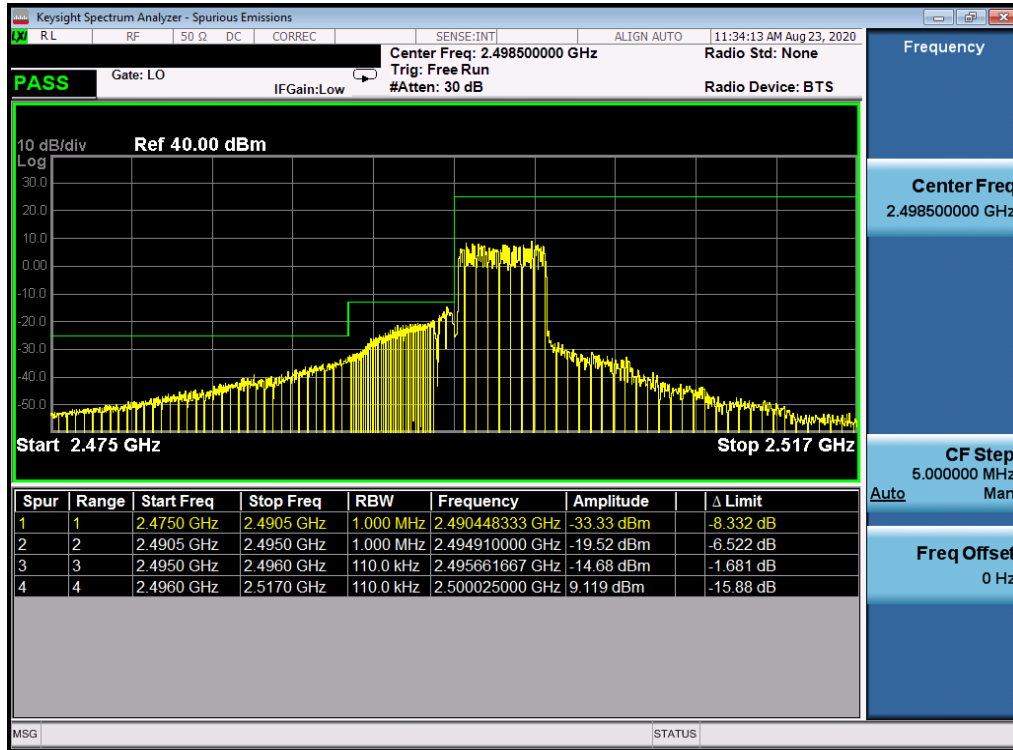
Plot 7-420. Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB Configuration)



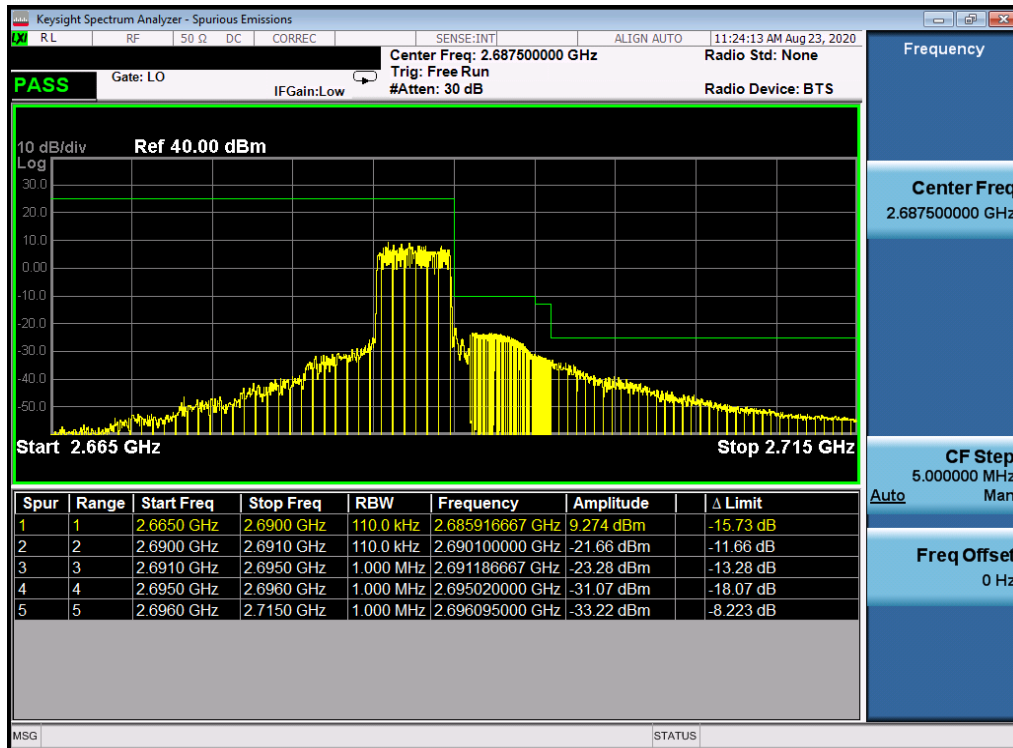
Plot 7-421. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 237 of 389

LTE Band 41(PC3)

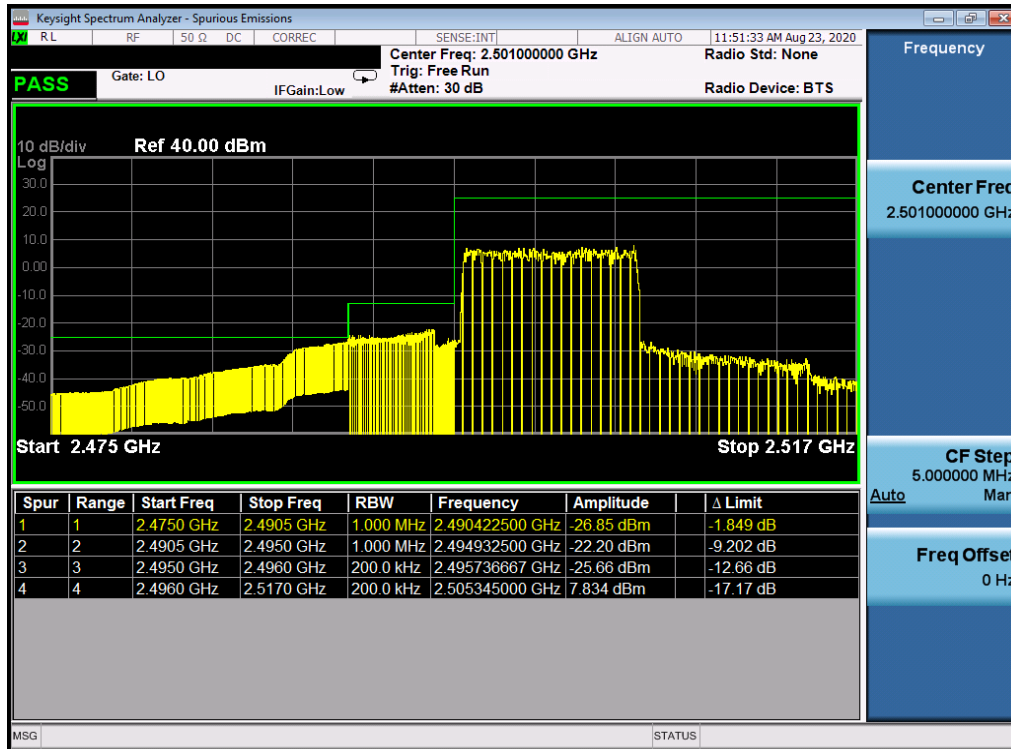


Plot 7-422. Lower ACP Plot (LTE Band 41(PC3) - 5MHz QPSK – Full RB Configuration)

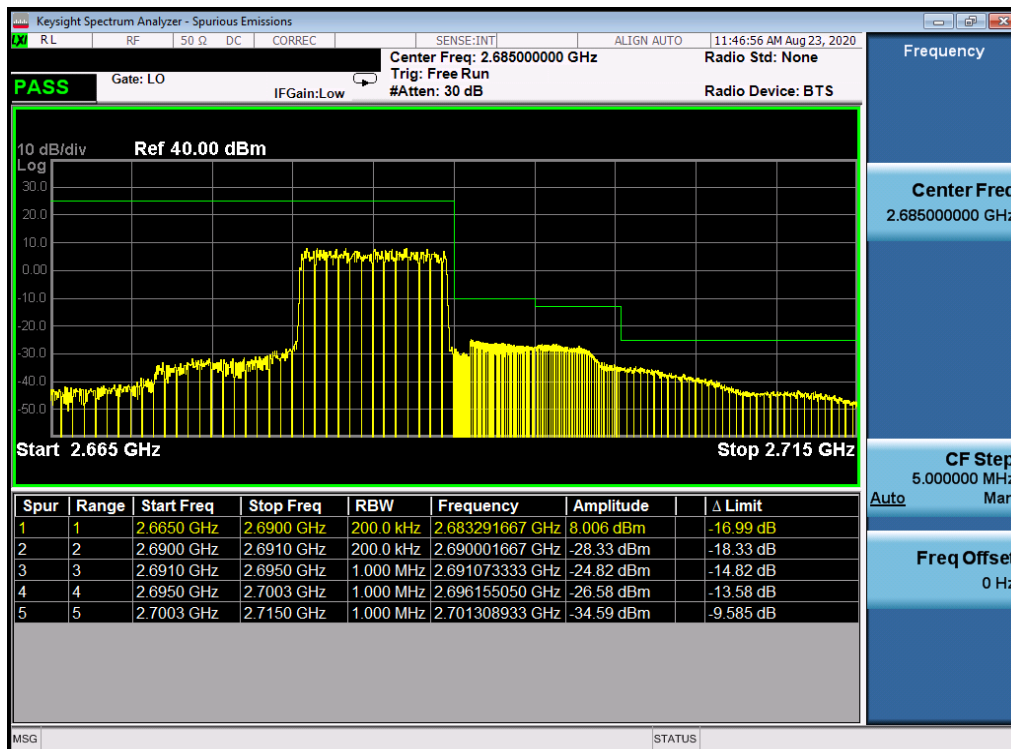


Plot 7-423. Upper ACP Plot (LTE Band 41(PC3) - 5MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 238 of 389

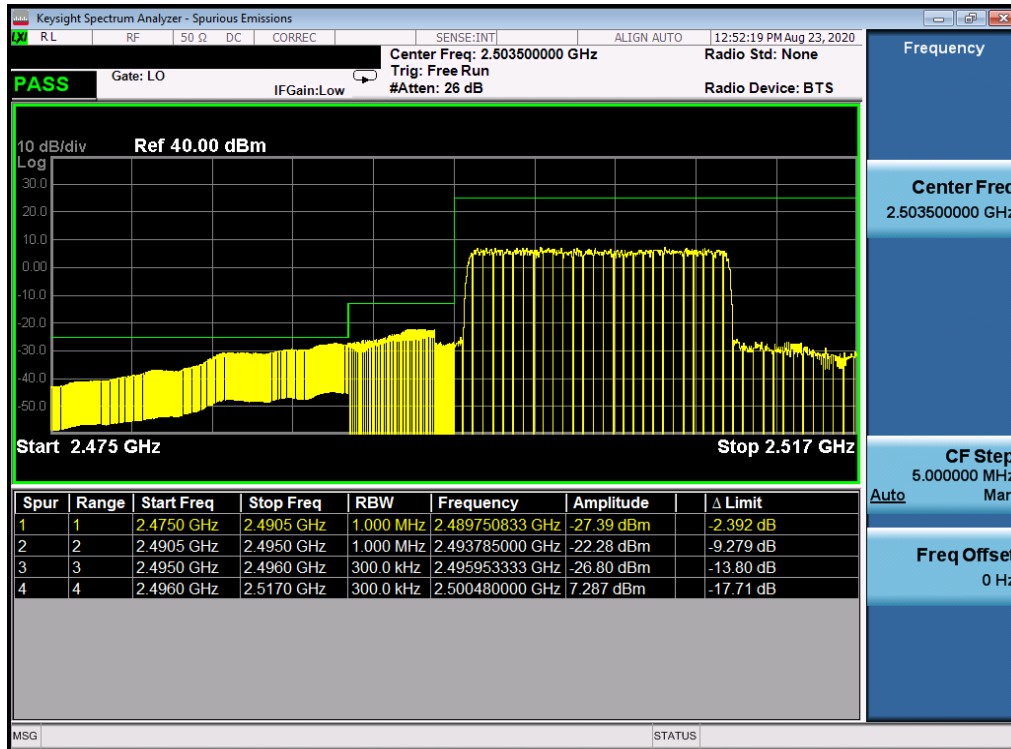


Plot 7-424. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB Configuration)

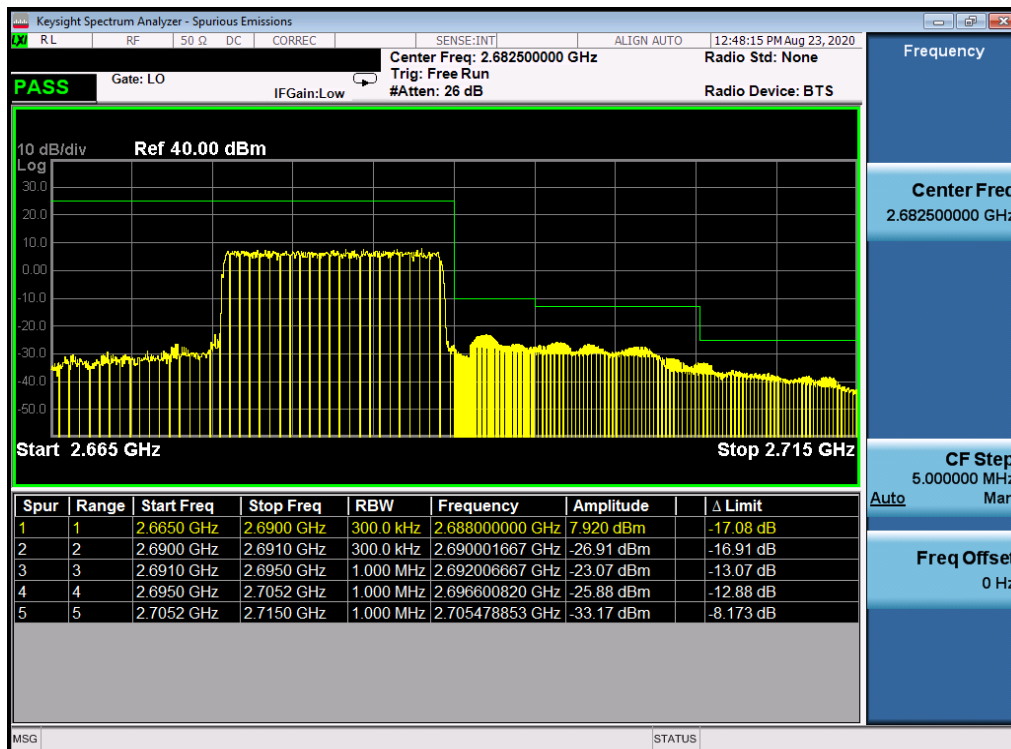


Plot 7-425. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 239 of 389

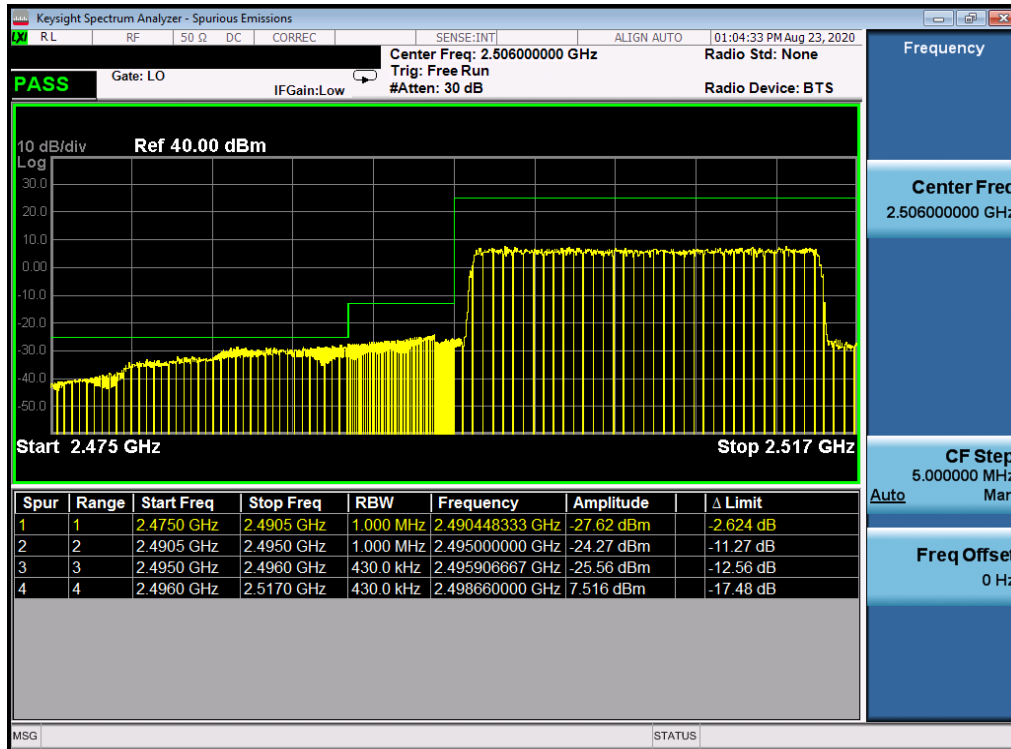


Plot 7-426. Lower ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB Configuration)

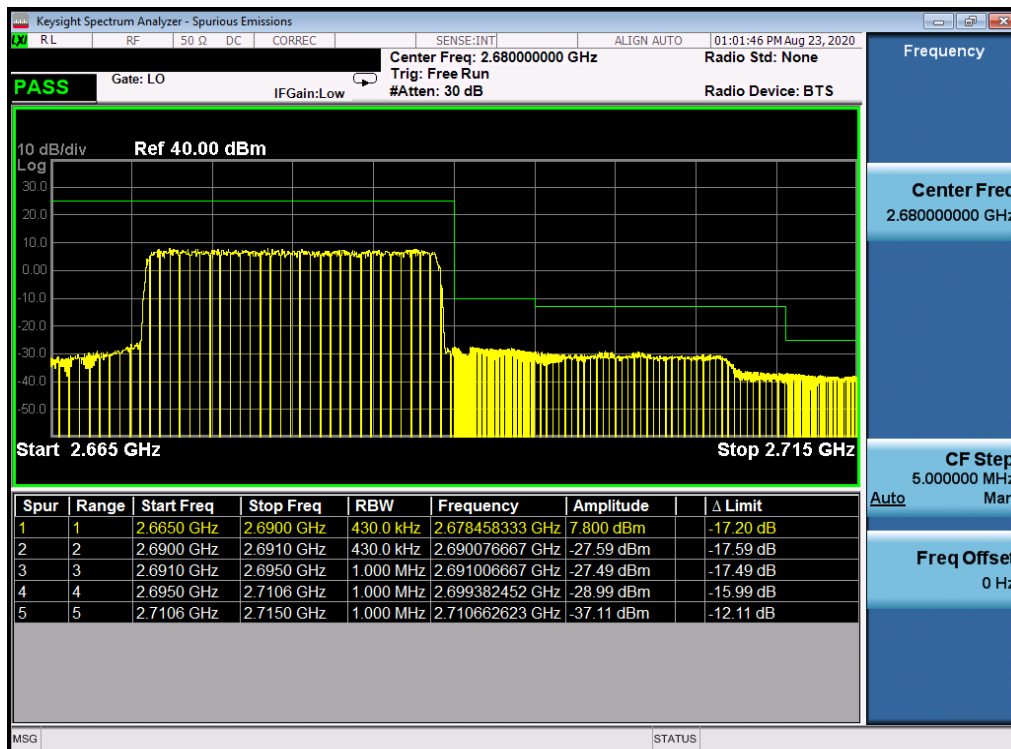


Plot 7-427. Upper ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 240 of 389



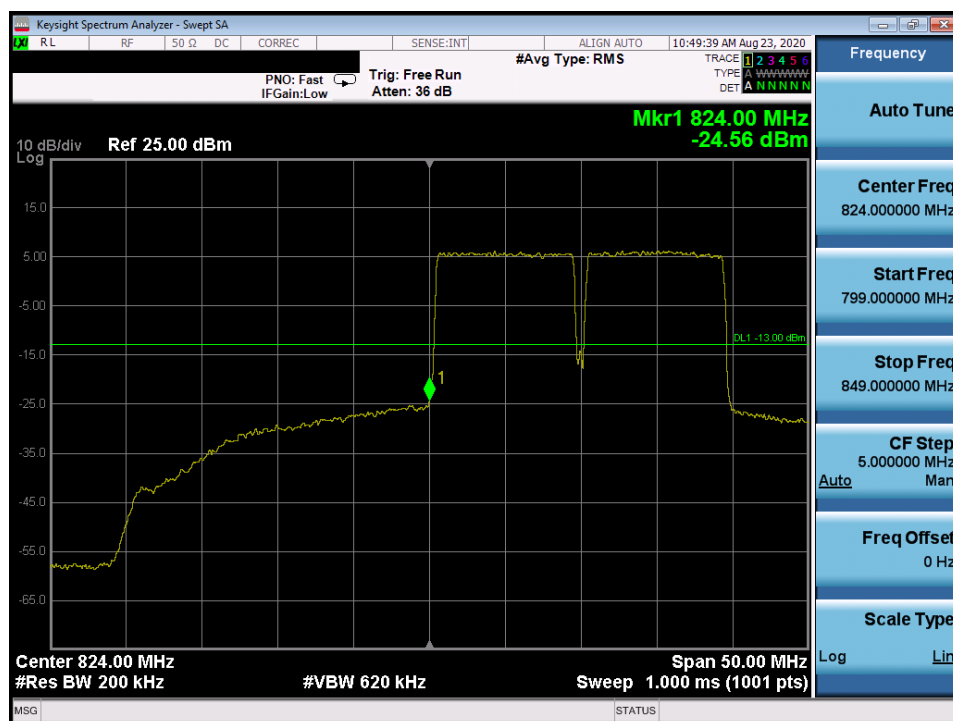
Plot 7-428. Lower ACP Plot (LTE Band 41(PC3) - 20MHz QPSK - Full RB Configuration)



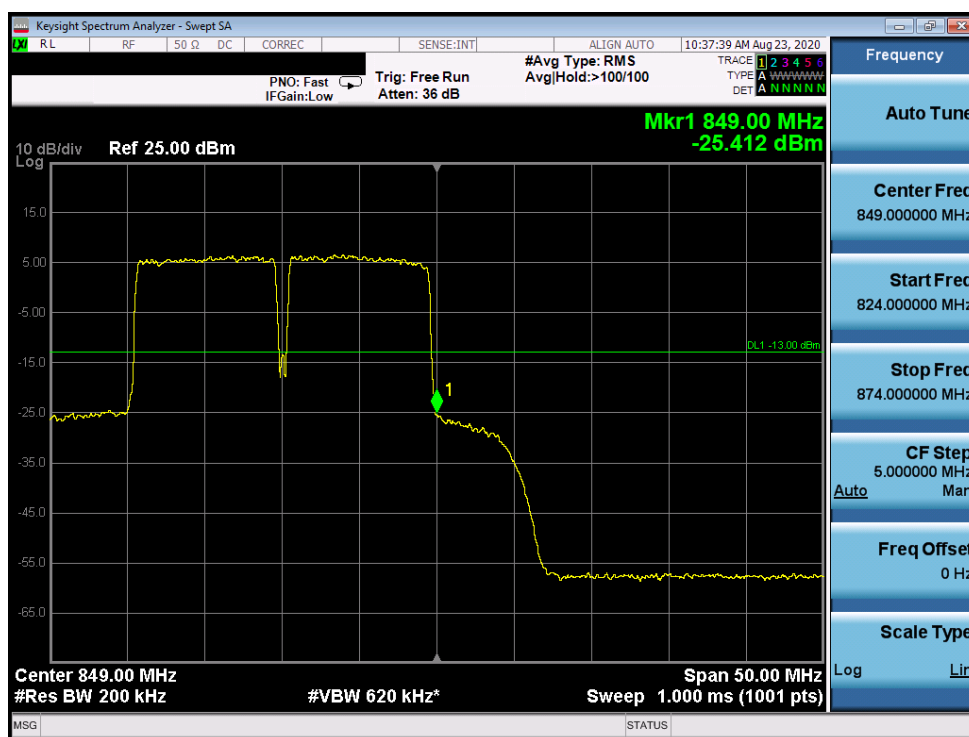
Plot 7-429. Upper ACP Plot (LTE Band 41(PC3) - 20MHz QPSK - Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 241 of 389

ULCA - LTE Band 5



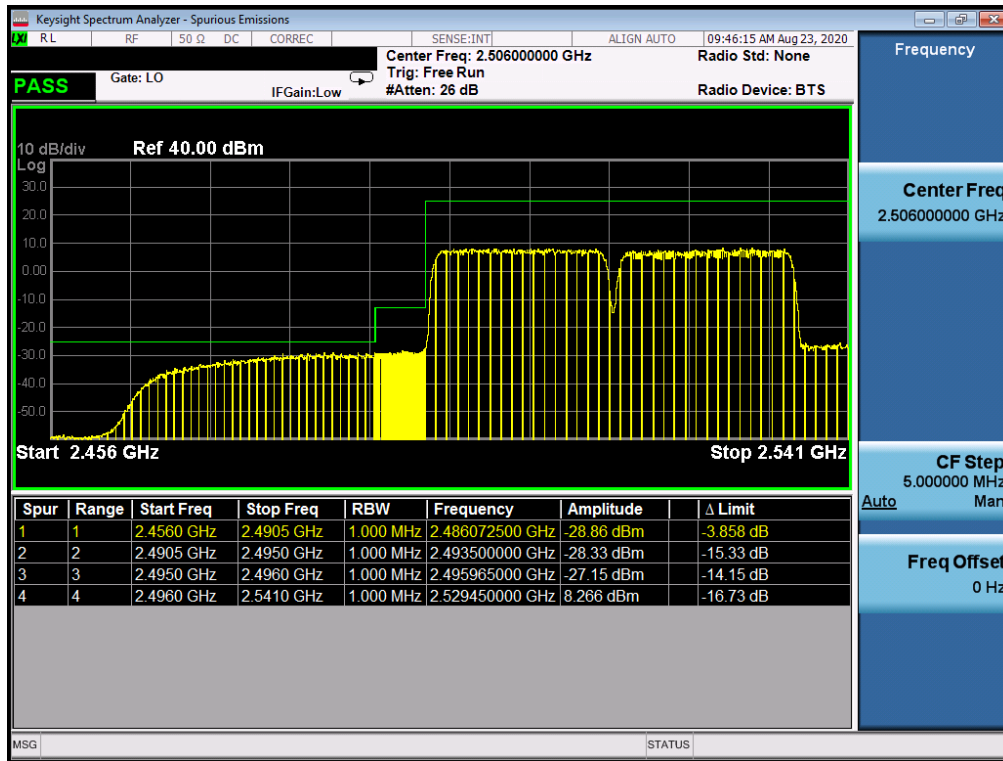
Plot 7-430. Lower Band Edge Plot (LTE Band 5 – 10MHz BW QPSK – Full RB Configuration)



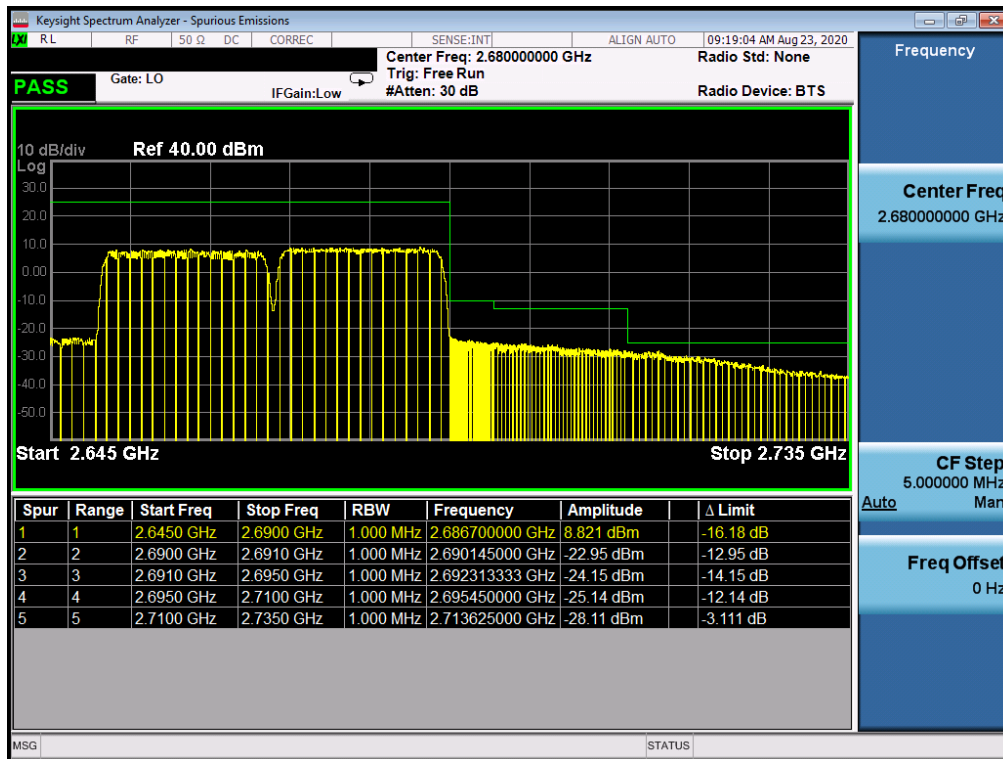
Plot 7-431. Upper Band Edge Plot (LTE Band 5 – 10MHz BW QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset	Page 242 of 389

ULCA - LTE Band 41(PC3)



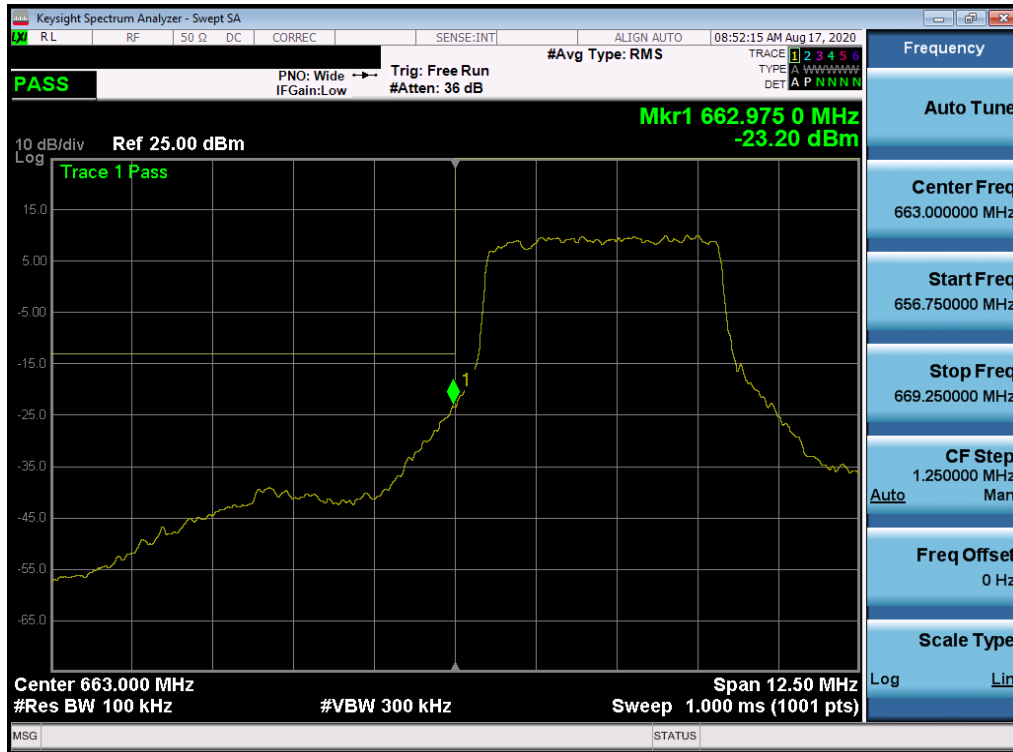
Plot 7-432. Lower ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB Configuration)



Plot 7-433. Upper ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 243 of 389

NR Band n71

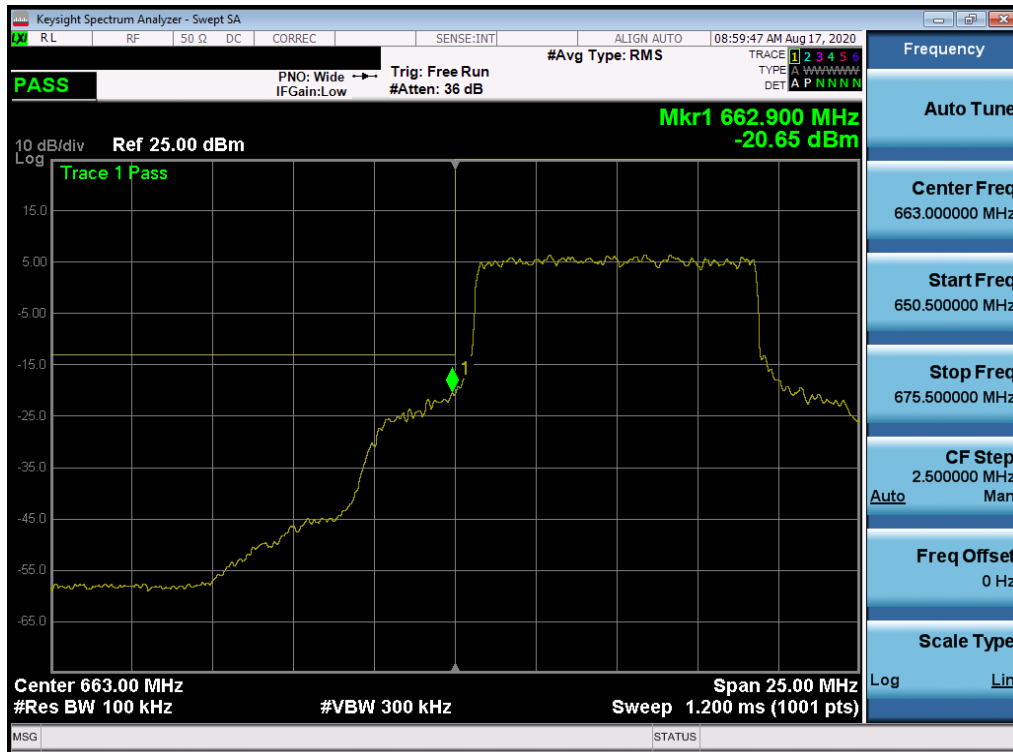


Plot 7-434. Lower Band Edge Plot (NR Band n71 – 5.0MHz - Full RB)



Plot 7-435. Upper Band Edge Plot (NR Band n71 – 5.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 244 of 389

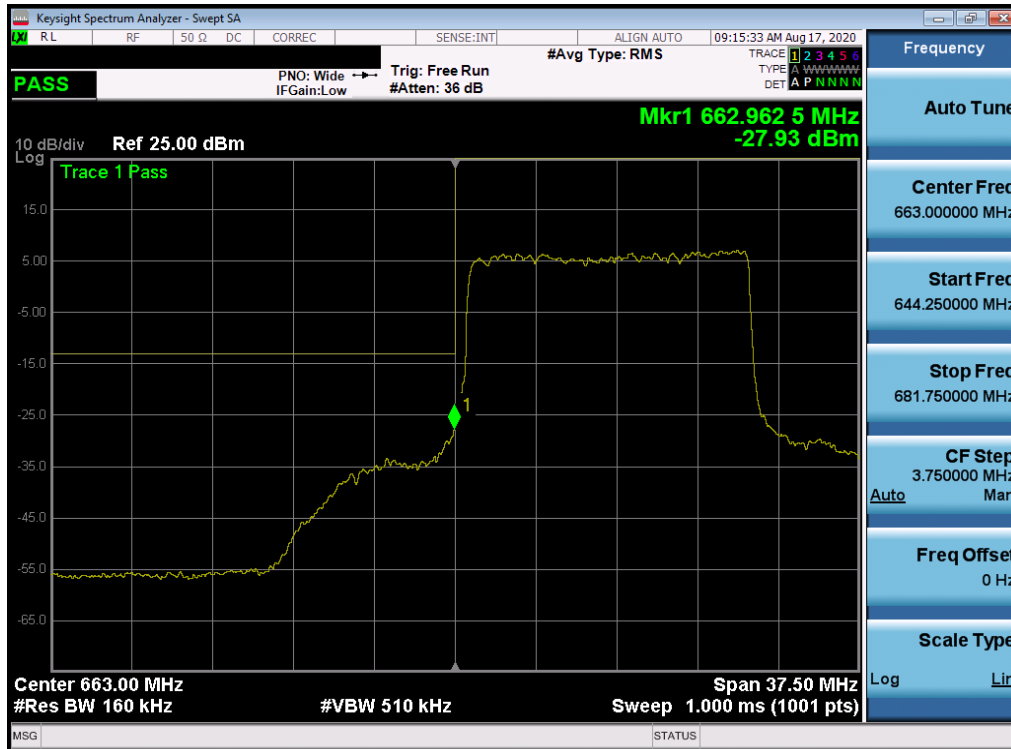


Plot 7-436. Lower Band Edge Plot (NR Band n71 - 10.0MHz - Full RB)



Plot 7-437. Upper Band Edge Plot (NR Band n71 - 10.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 245 of 389

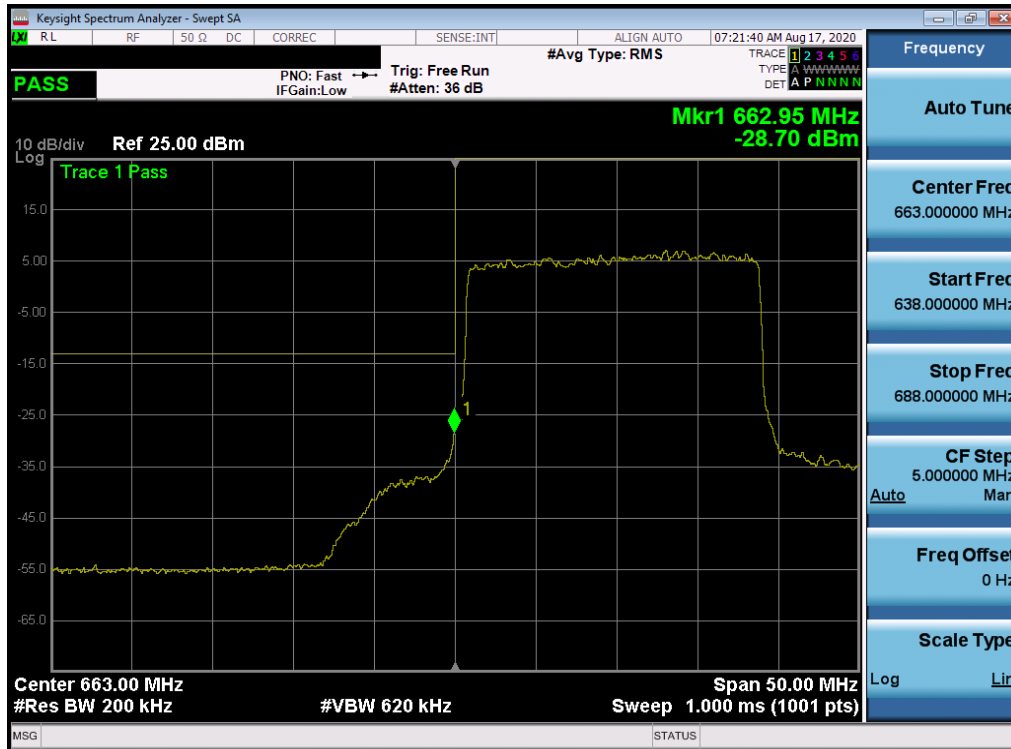


Plot 7-438. Lower Band Edge Plot (NR Band n71 – 15.0MHz - Full RB)

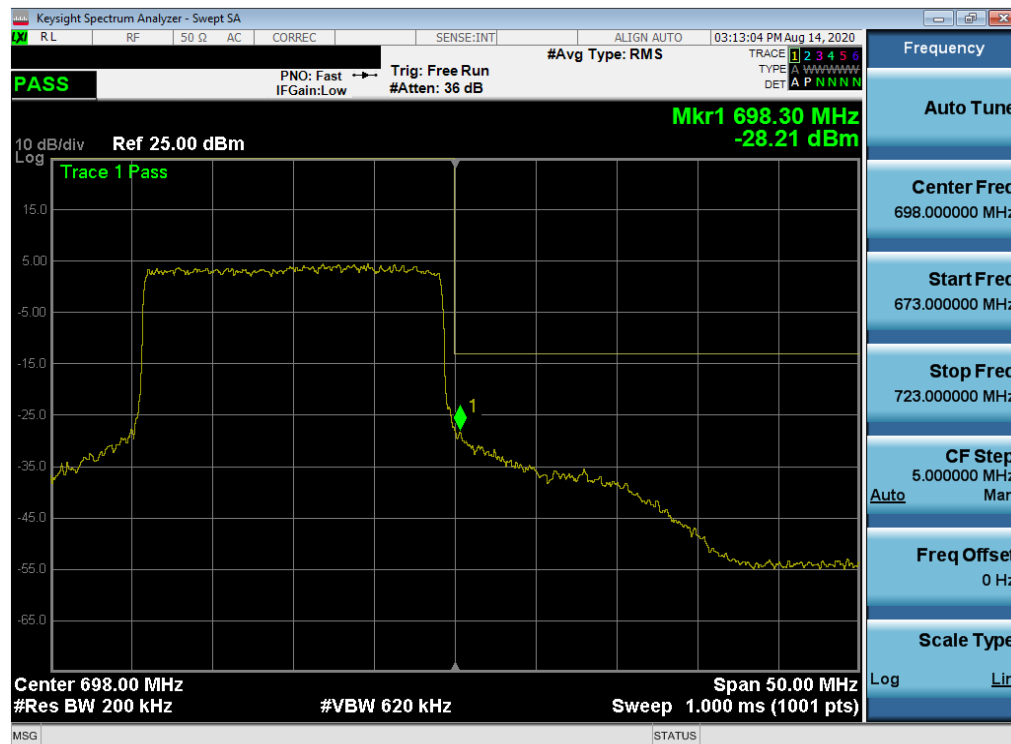


Plot 7-439. Upper Band Edge Plot (NR Band n71 – 15.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 246 of 389



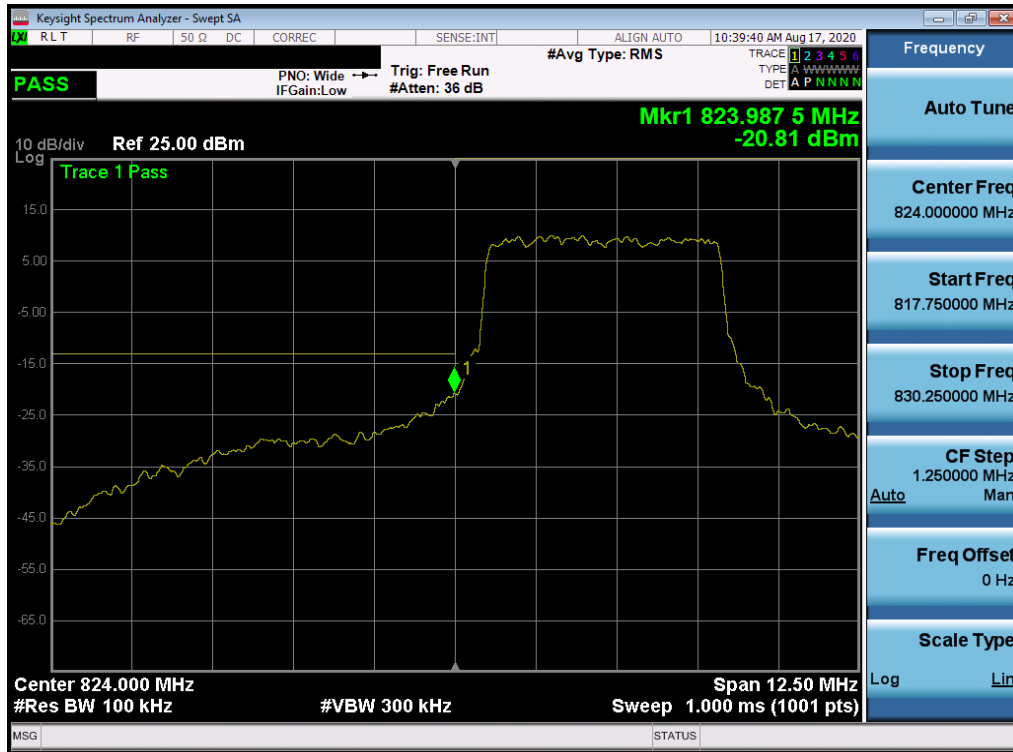
Plot 7-440. Lower Band Edge Plot (NR Band n71 – 20.0MHz - Full RB)



Plot 7-441. Upper Band Edge Plot (NR Band n71 – 20.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 247 of 389

NR Band n5

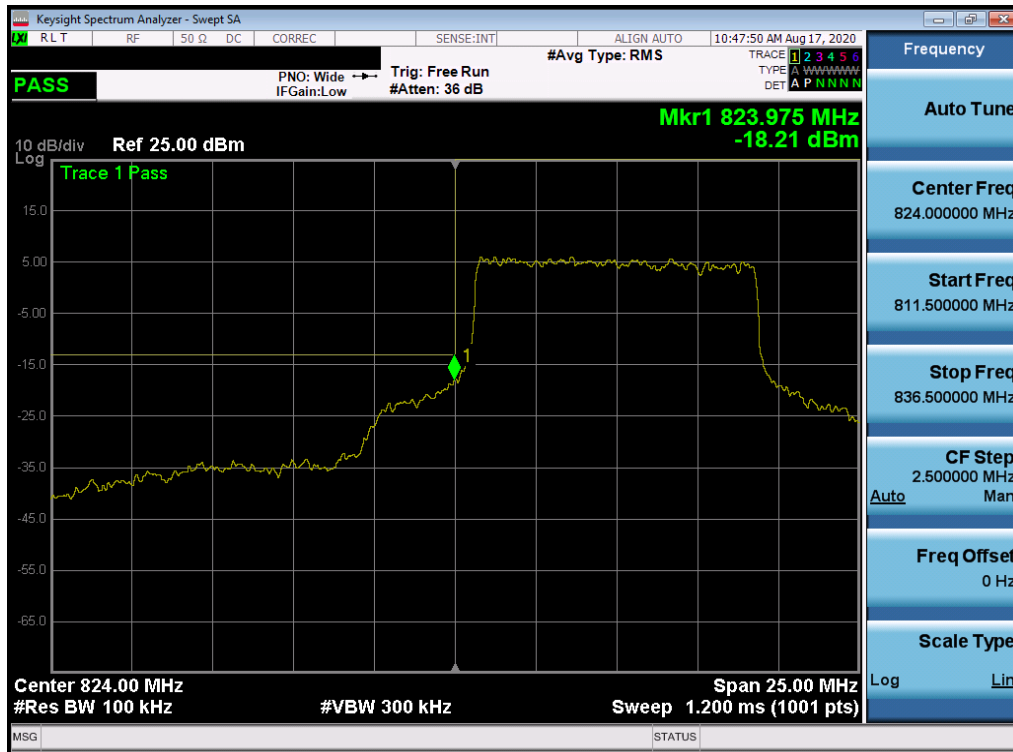


Plot 7-442. Lower Band Edge Plot (NR Band n5 – 5.0MHz - Full RB)



Plot 7-443. Upper Band Edge Plot (NR Band n5 – 5.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 248 of 389

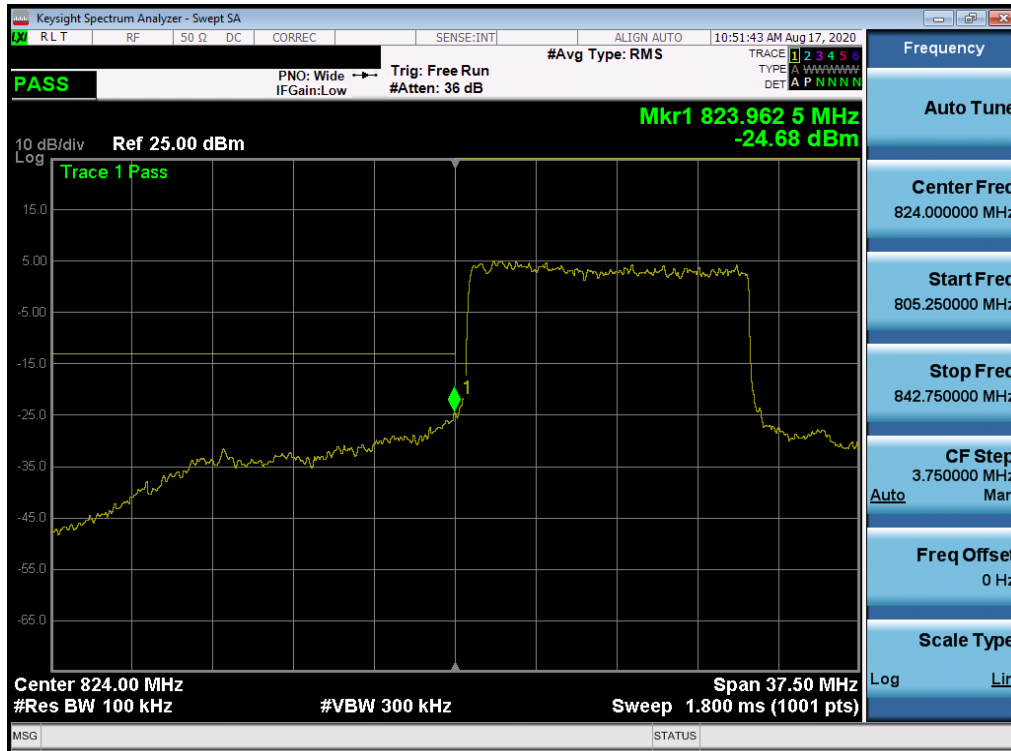


Plot 7-444. Lower Band Edge Plot (NR Band n5 - 10.0MHz - Full RB)

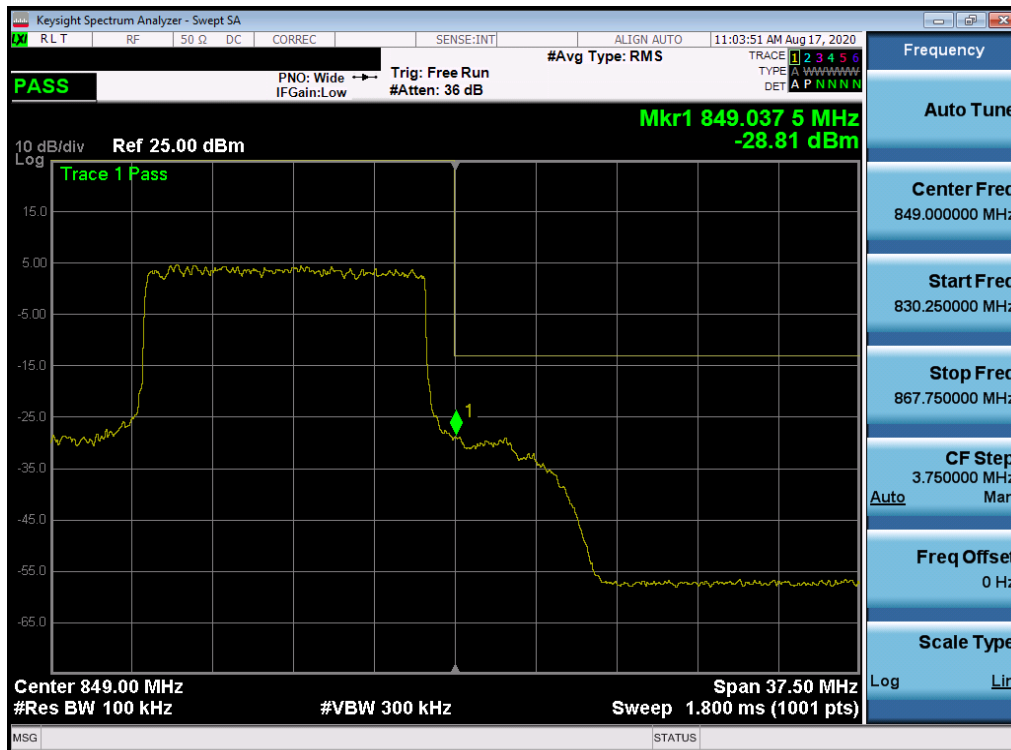


Plot 7-445. Upper Band Edge Plot (NR Band n5 - 10.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 249 of 389

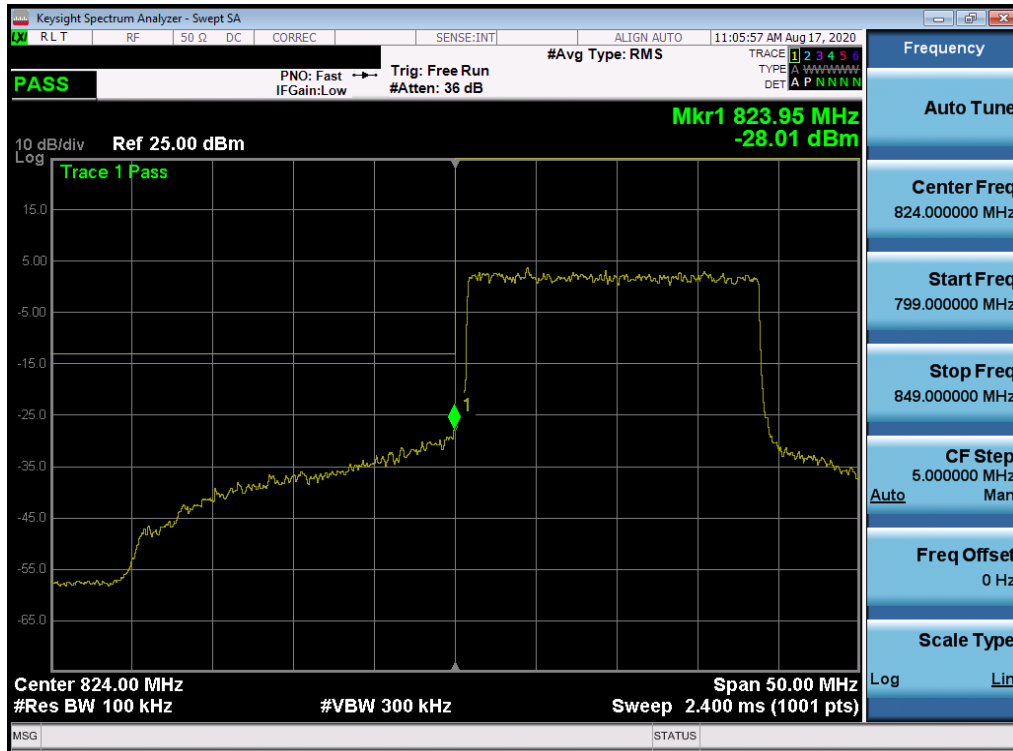


Plot 7-446. Lower Band Edge Plot (NR Band n5 - 15.0MHz - Full RB)

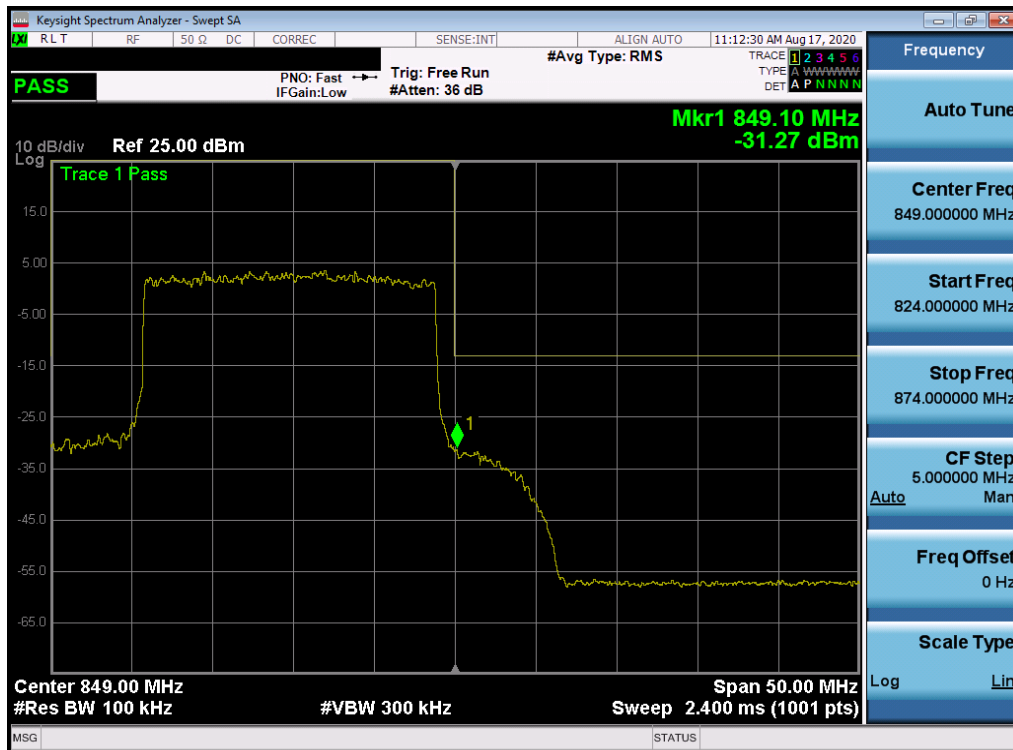


Plot 7-447. Upper Band Edge Plot (NR Band n5 - 15.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 250 of 389



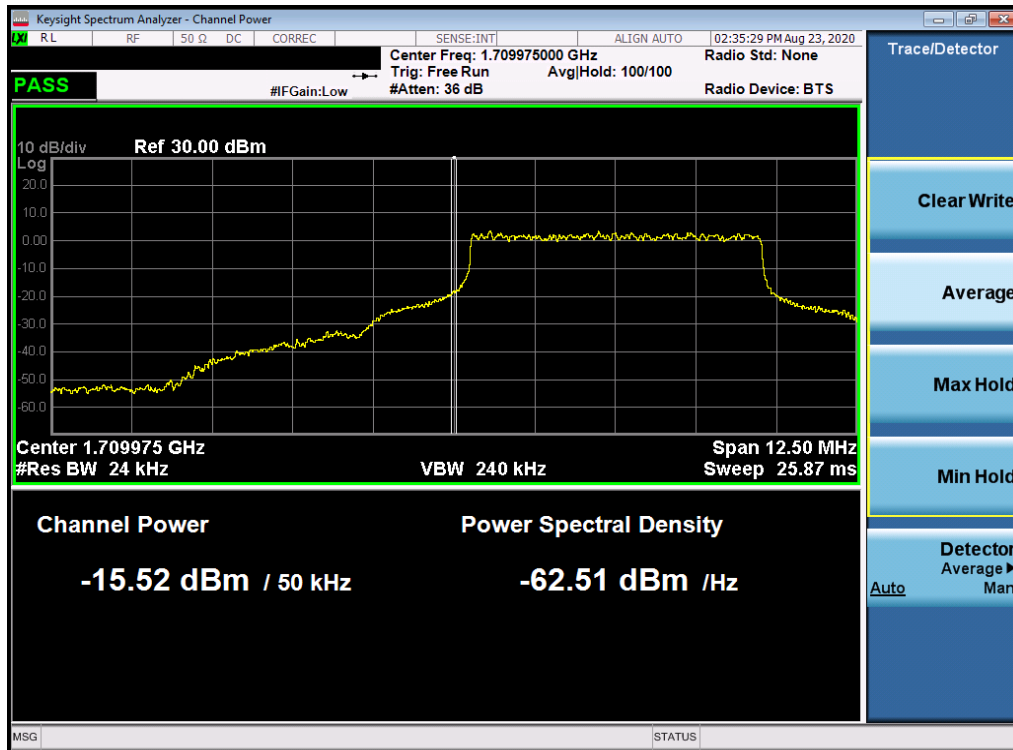
Plot 7-448. Lower Band Edge Plot (NR Band n5 – 20.0MHz - Full RB)



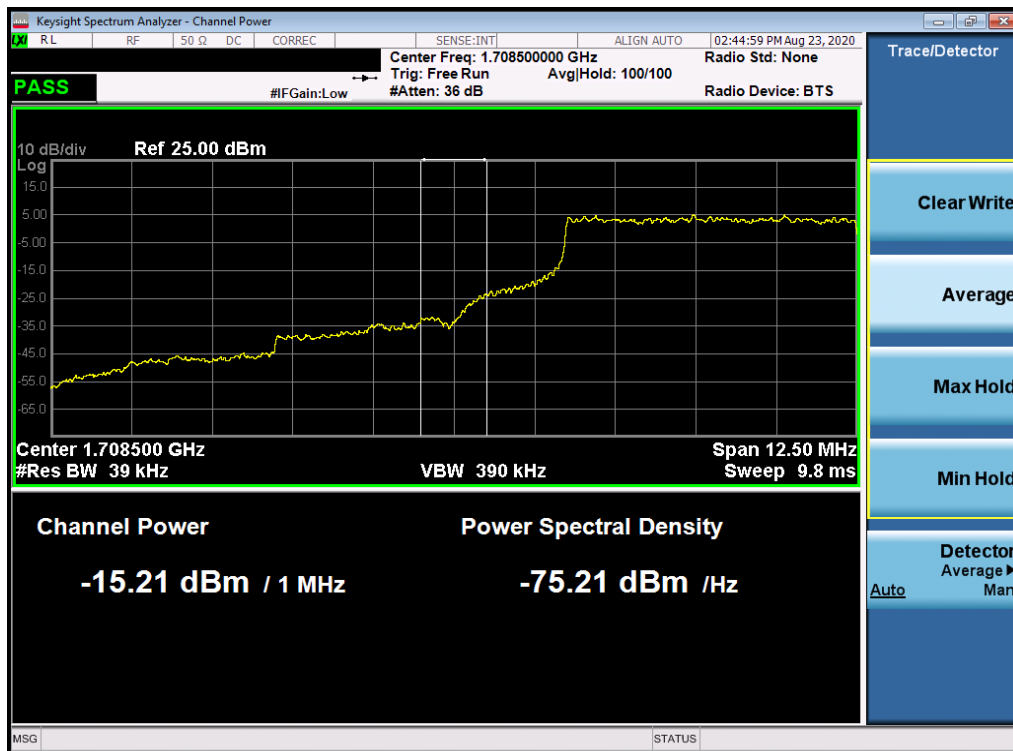
Plot 7-449. Upper Band Edge Plot (NR Band n5 – 20.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 251 of 389

NR Band n66



Plot 7-450. Lower Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

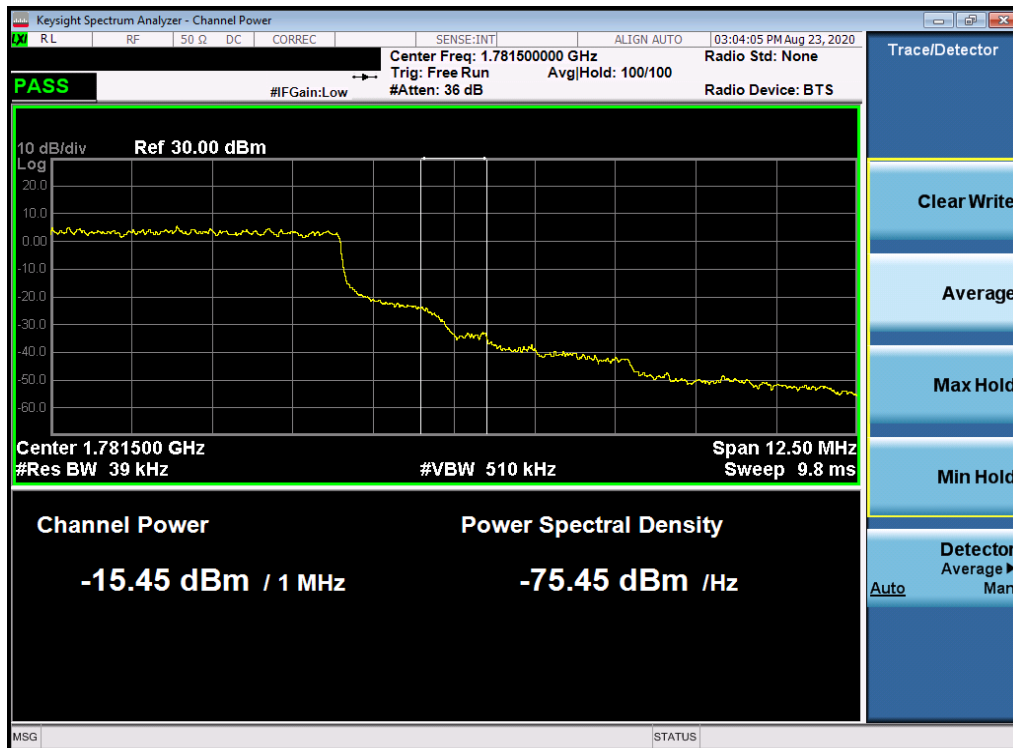


FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 252 of 389

Plot 7-451. Lower Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

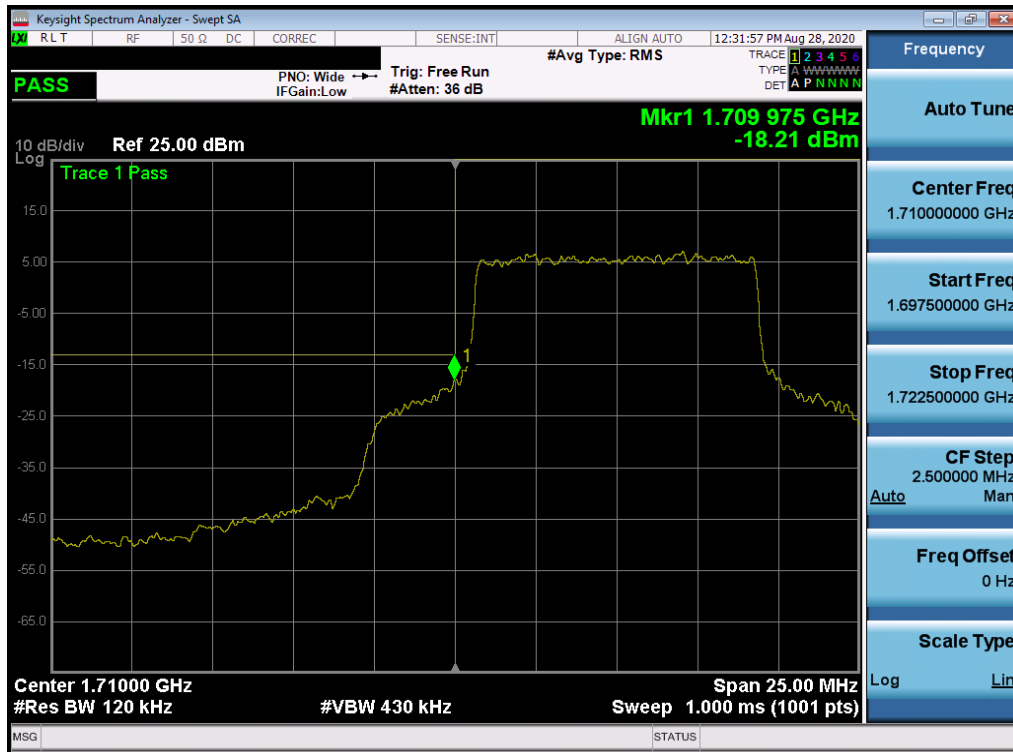


Plot 7-452. Upper Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

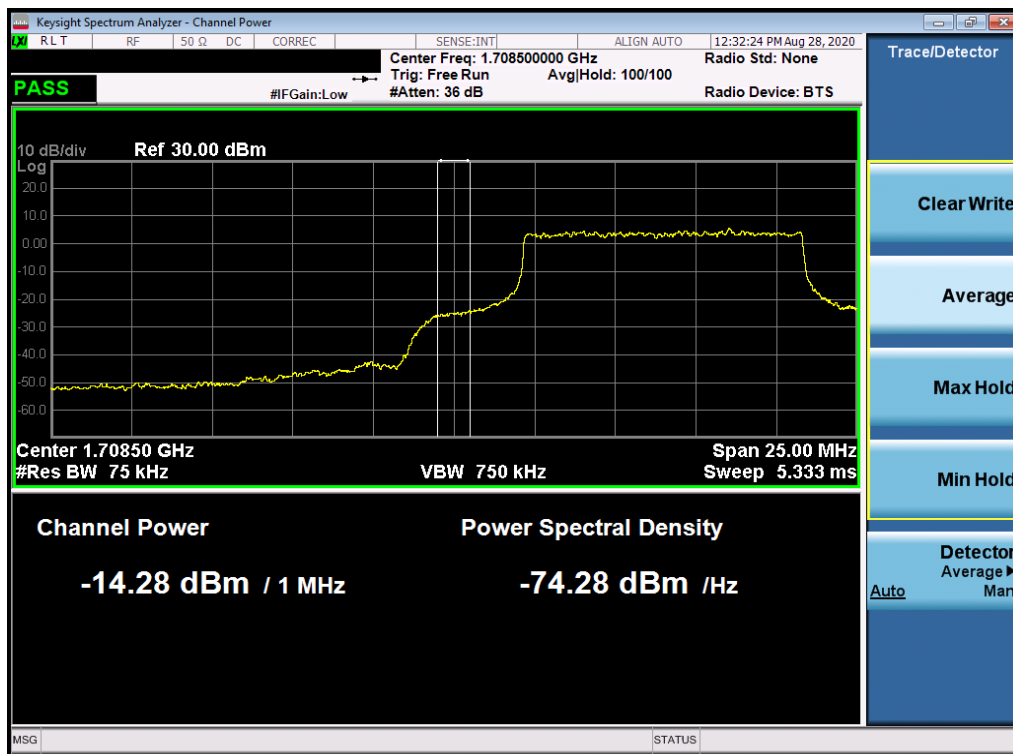


Plot 7-453. Upper Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 253 of 389



Plot 7-454. Lower Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

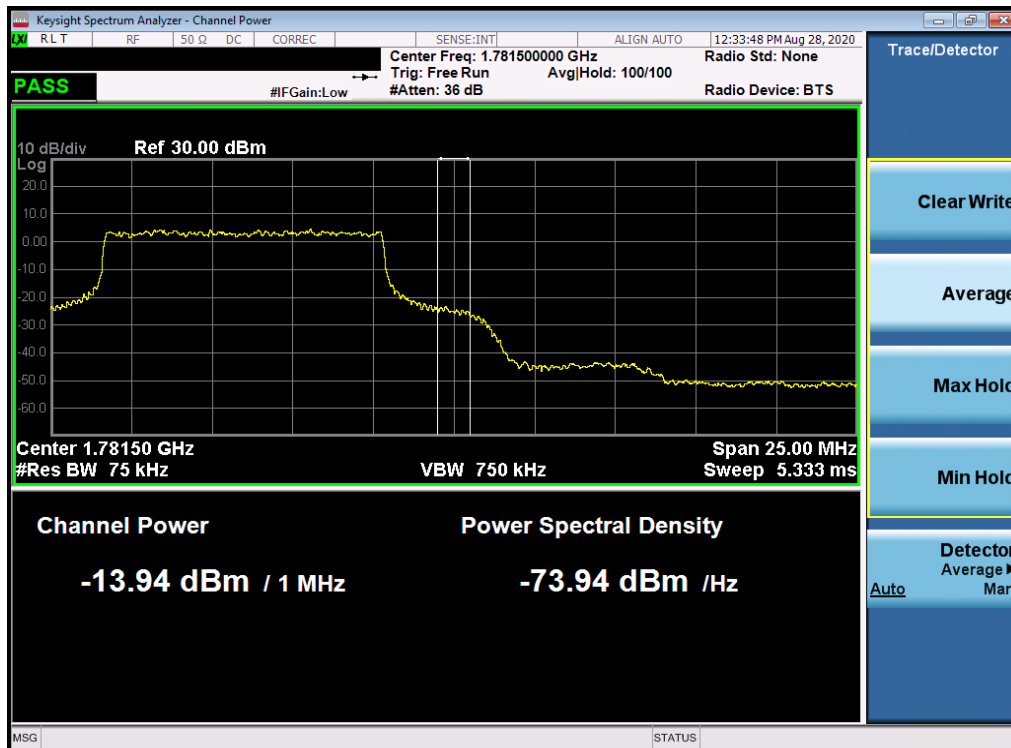


Plot 7-455. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 254 of 389

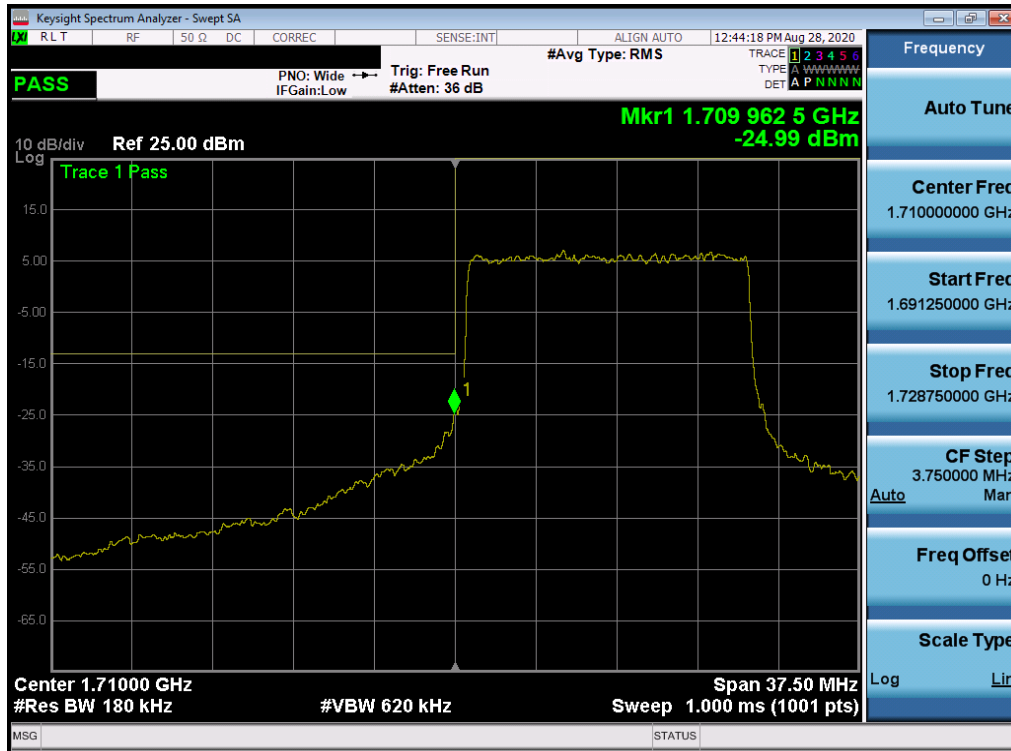


Plot 7-456. Upper Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

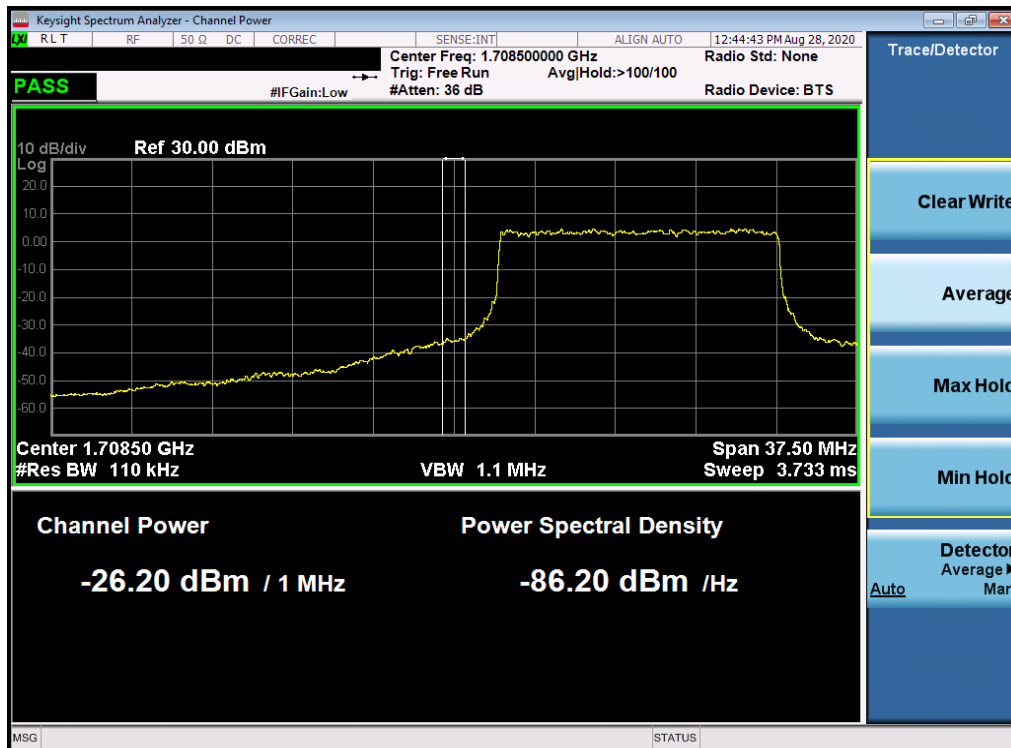


Plot 7-457. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 255 of 389



Plot 7-458. Lower Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

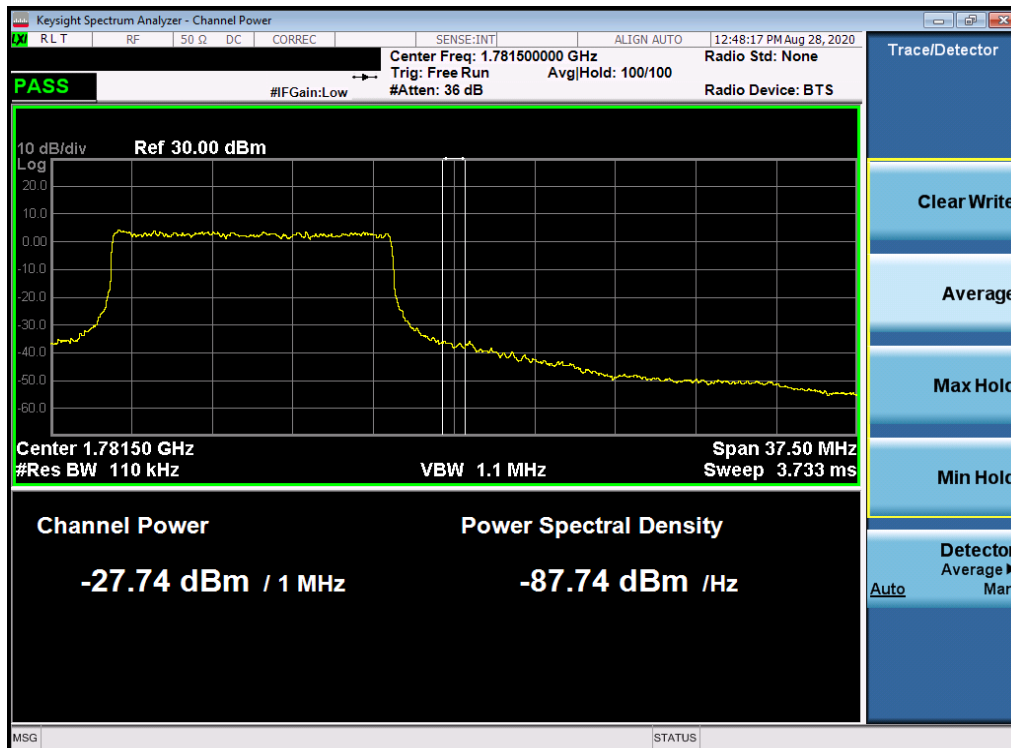


Plot 7-459. Lower Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 256 of 389

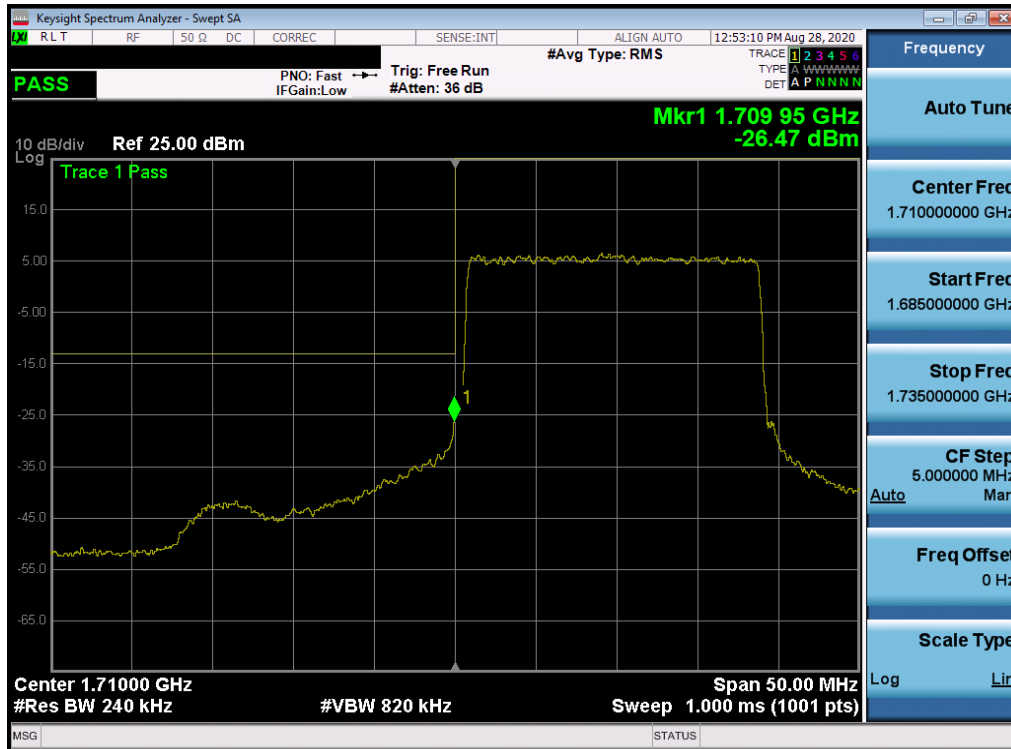


Plot 7-460. Upper Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

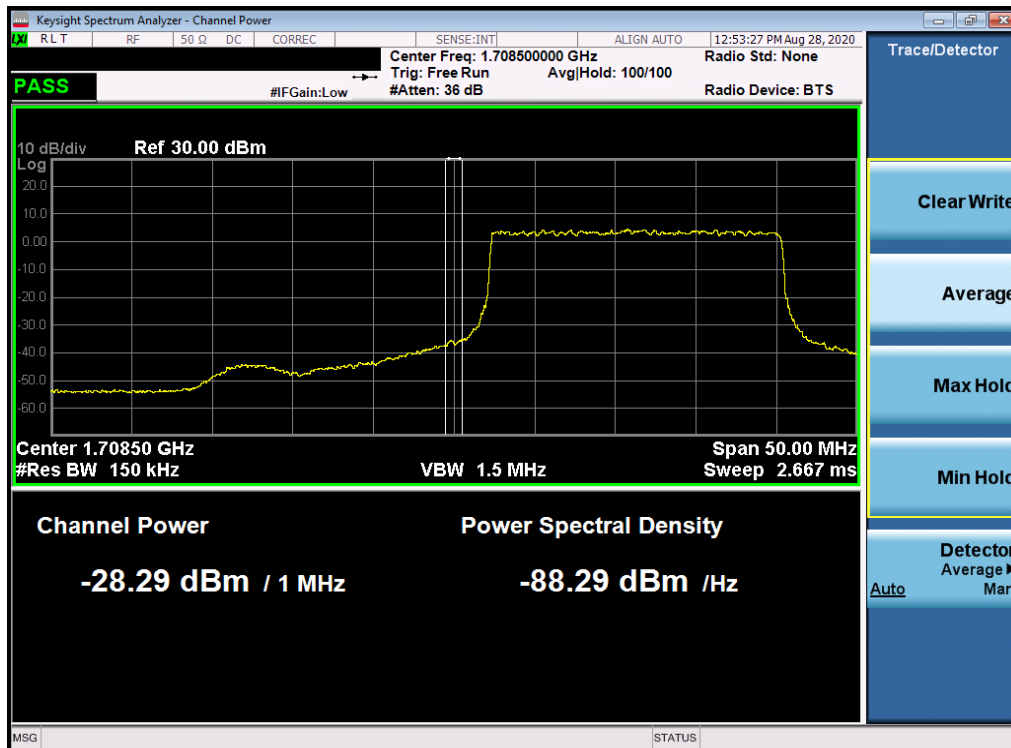


Plot 7-461. Upper Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 257 of 389



Plot 7-462. Lower Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)

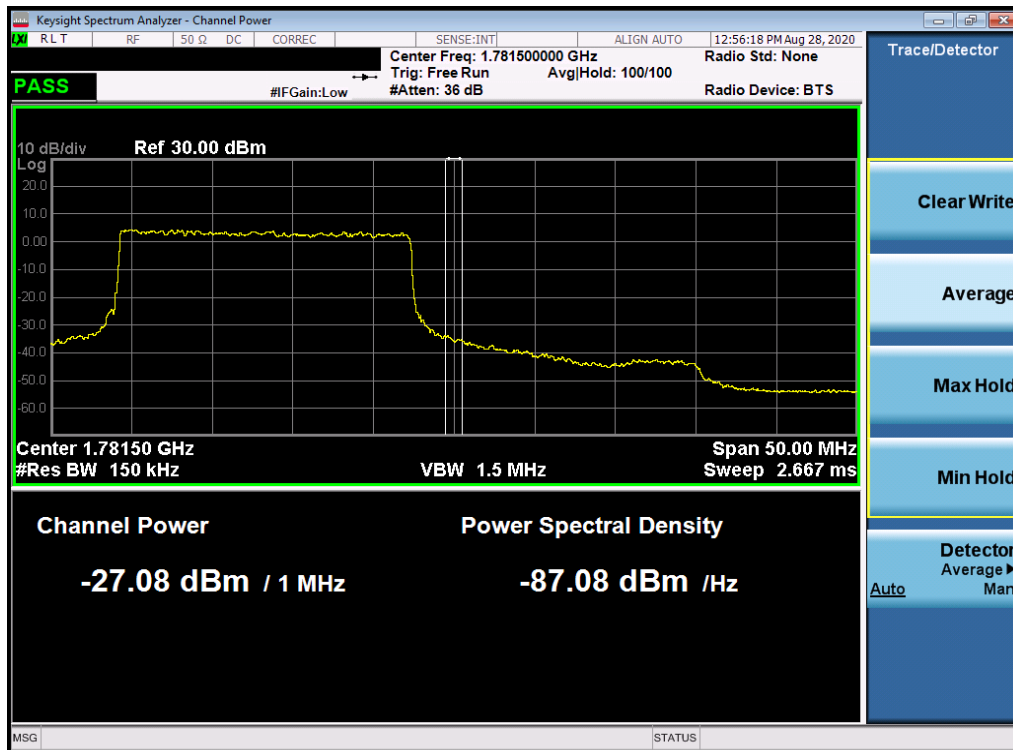


Plot 7-463. Lower Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 258 of 389



Plot 7-464. Upper Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)



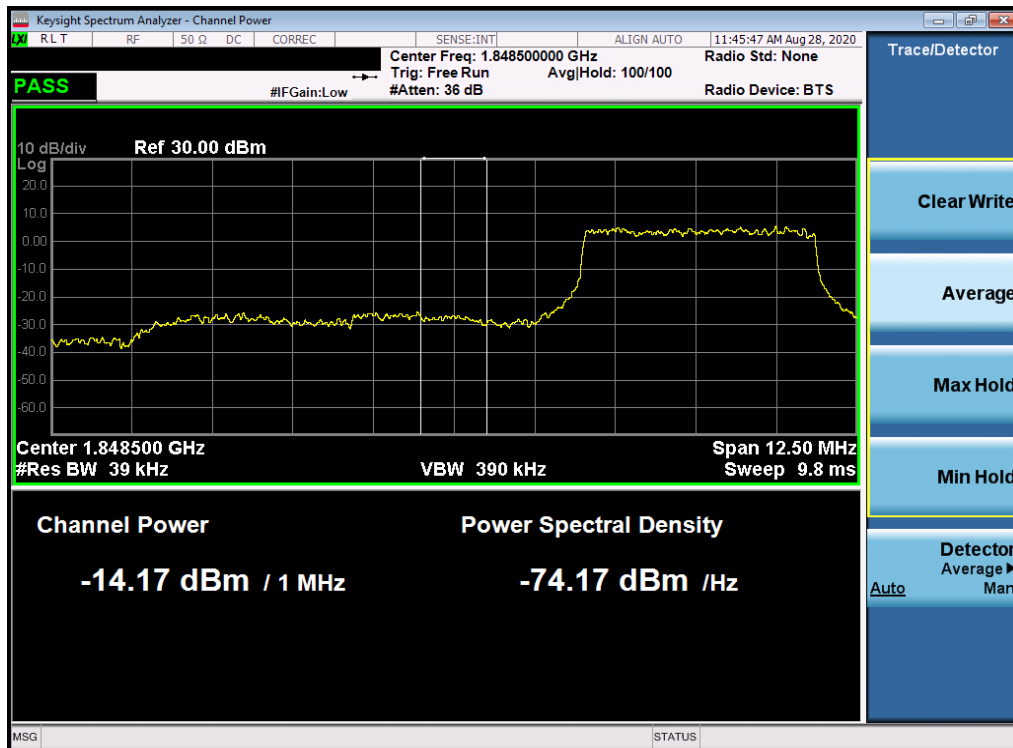
Plot 7-465. Upper Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 259 of 389

NR Band n2



Plot 7-466. Lower Band Edge Plot (NR Band n2 – 5.0MHz - Full RB)

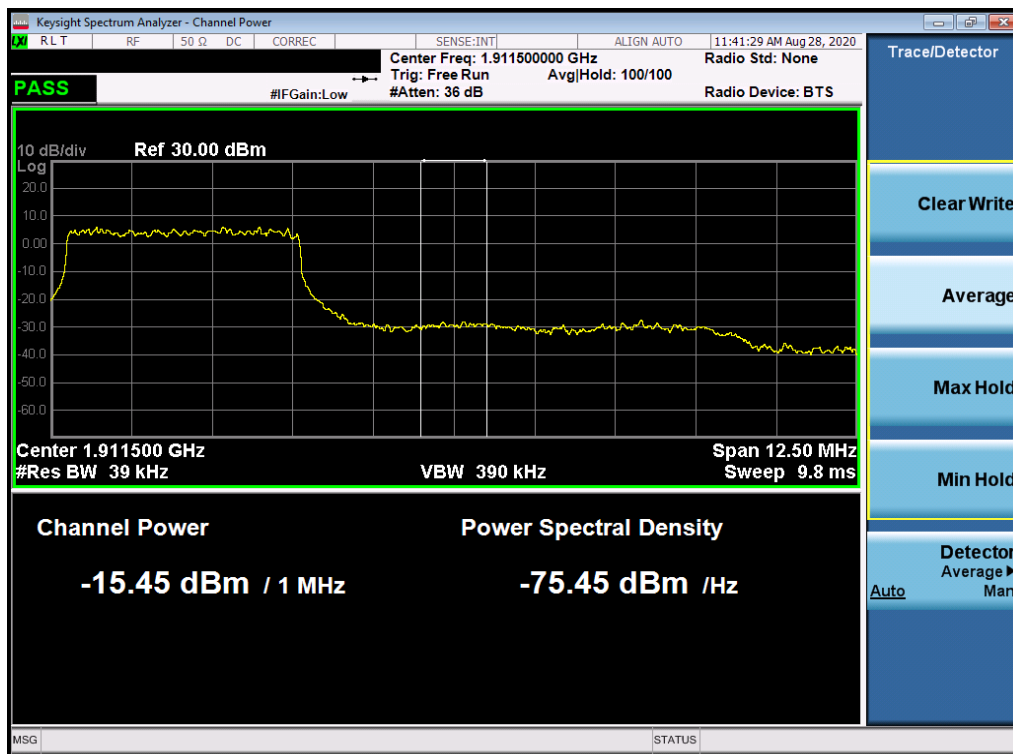


Plot 7-467. Lower Extended Band Edge Plot (NR Band n2 – 5.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 260 of 389

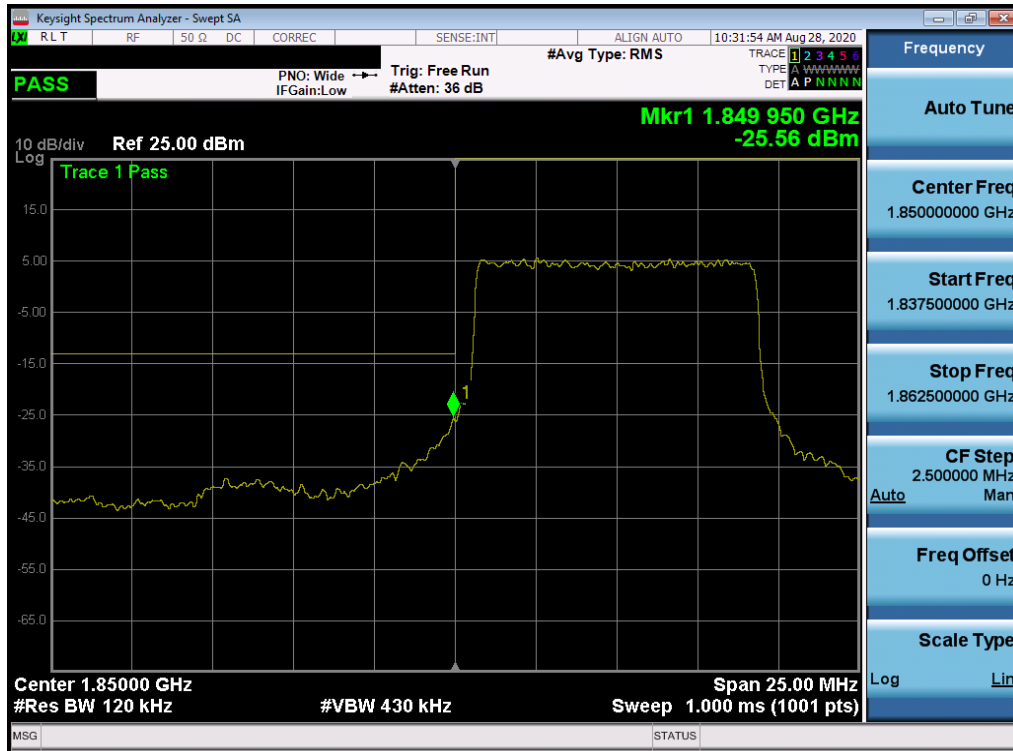


Plot 7-468. Upper Band Edge Plot (NR Band n2 - 5.0MHz - Full RB)

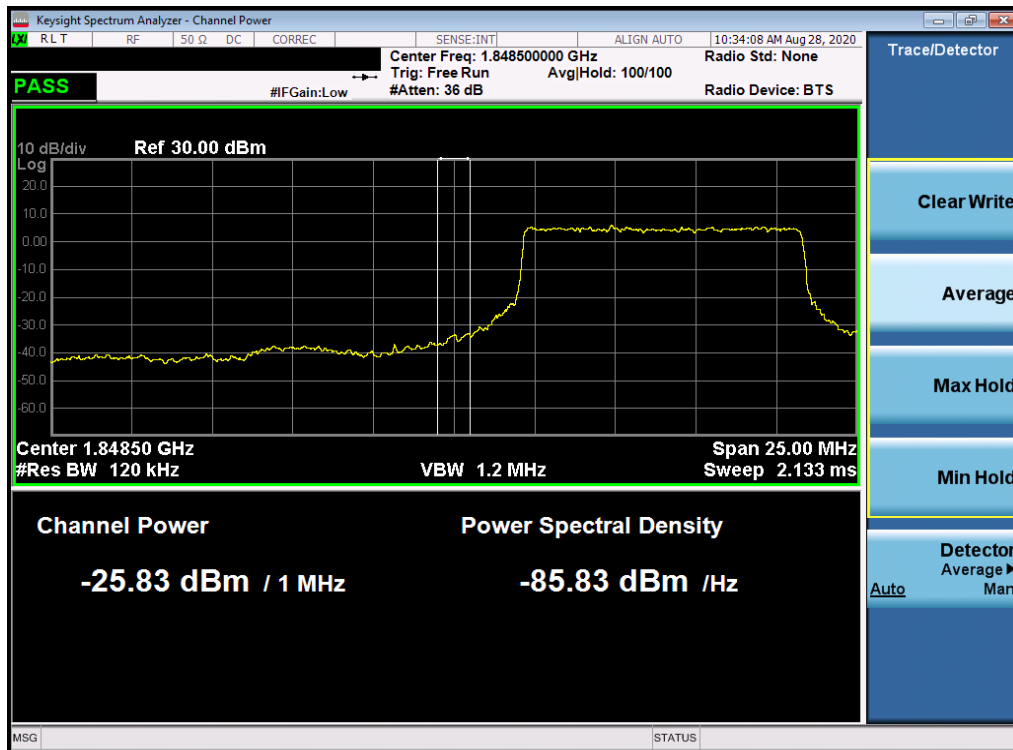


Plot 7-469. Upper Extended Band Edge Plot (NR Band n2 - 5.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 261 of 389



Plot 7-470. Lower Band Edge Plot (NR Band n2 – 10.0MHz - Full RB)

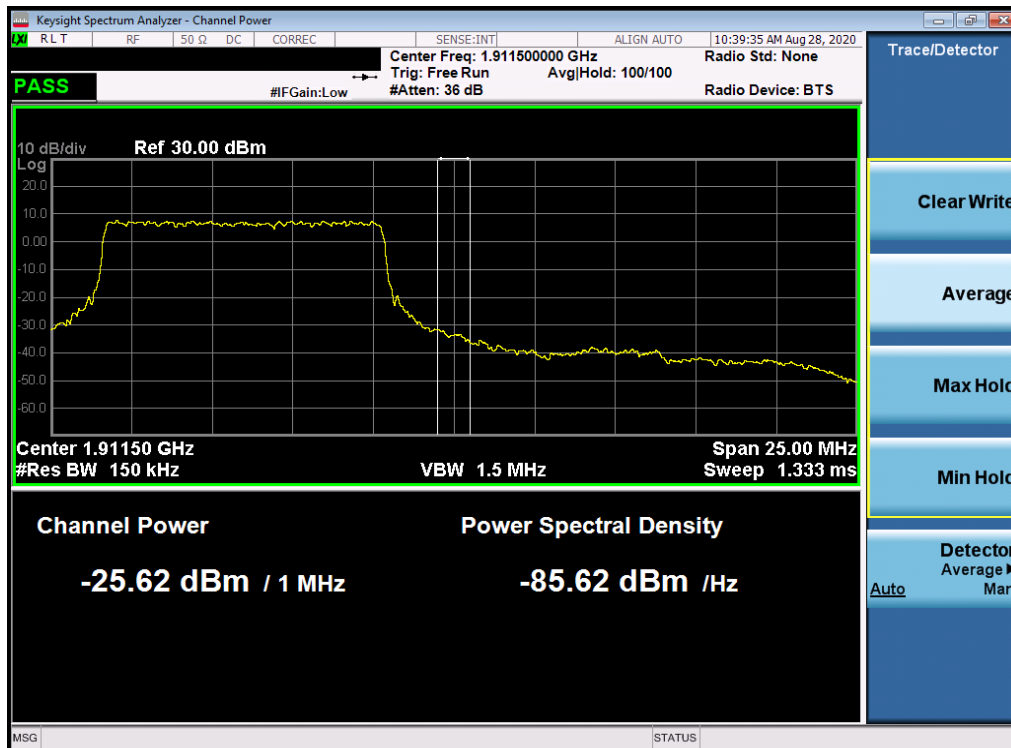


Plot 7-471. Lower Extended Band Edge Plot (NR Band n2 – 10.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 262 of 389

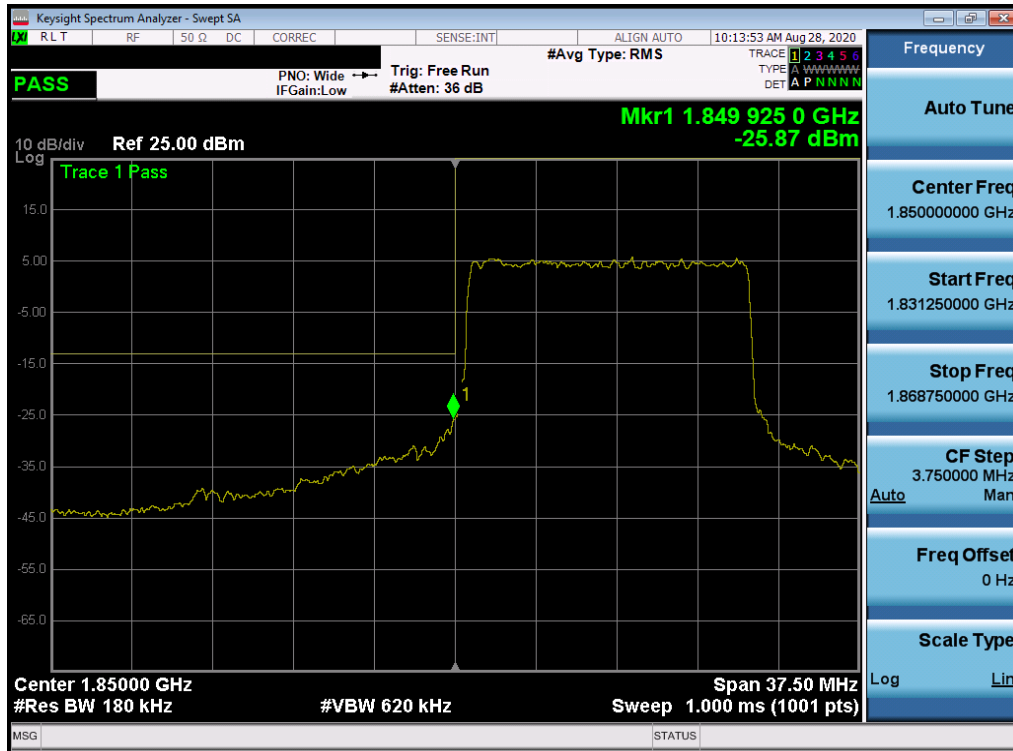


Plot 7-472. Upper Band Edge Plot (NR Band n2 – 10.0MHz - Full RB)

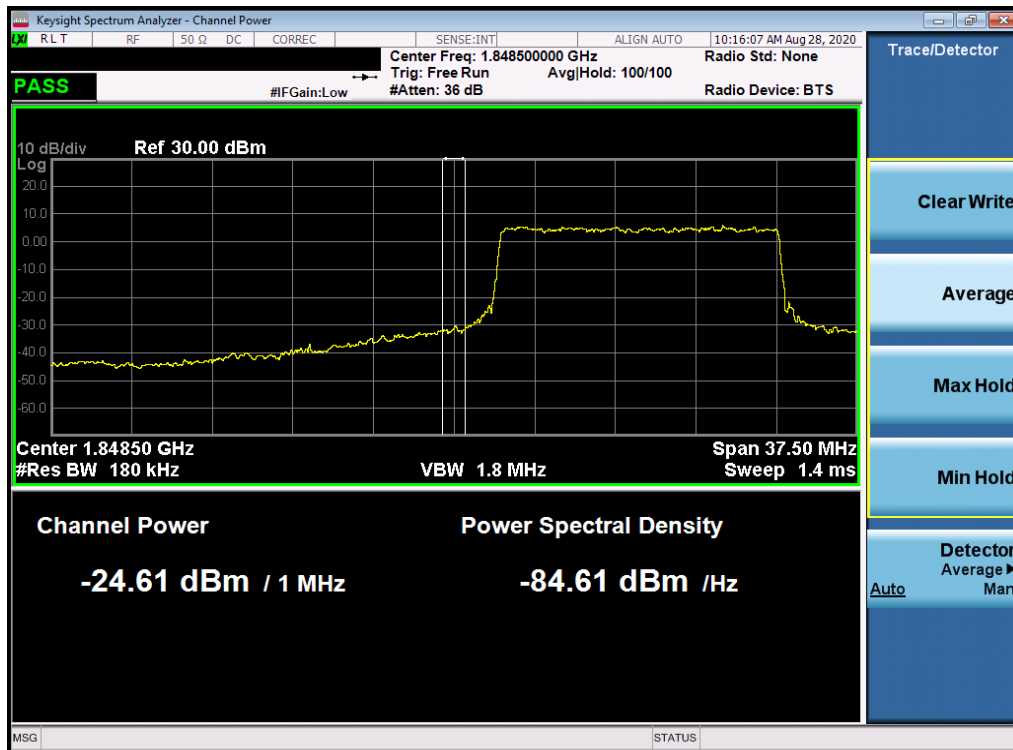


Plot 7-473. Upper Extended Band Edge Plot (NR Band n2 – 10.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 263 of 389



Plot 7-474. Lower Band Edge Plot (NR Band n2 – 15.0MHz - Full RB)

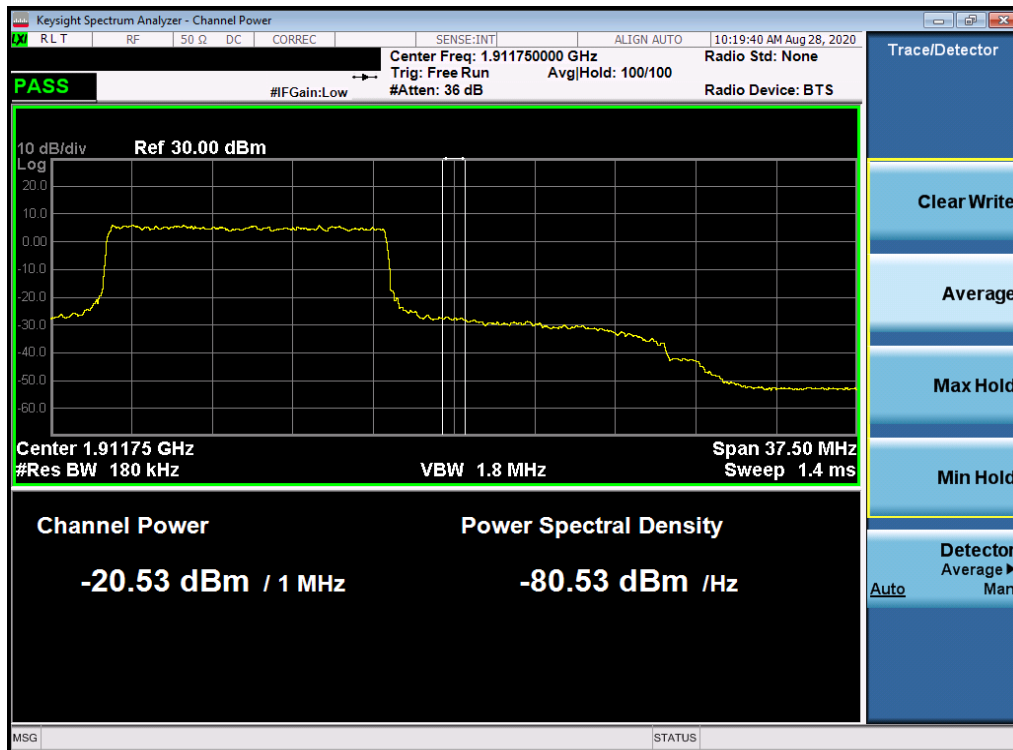


Plot 7-475. Lower Extended Band Edge Plot (NR Band n2 – 15.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 264 of 389

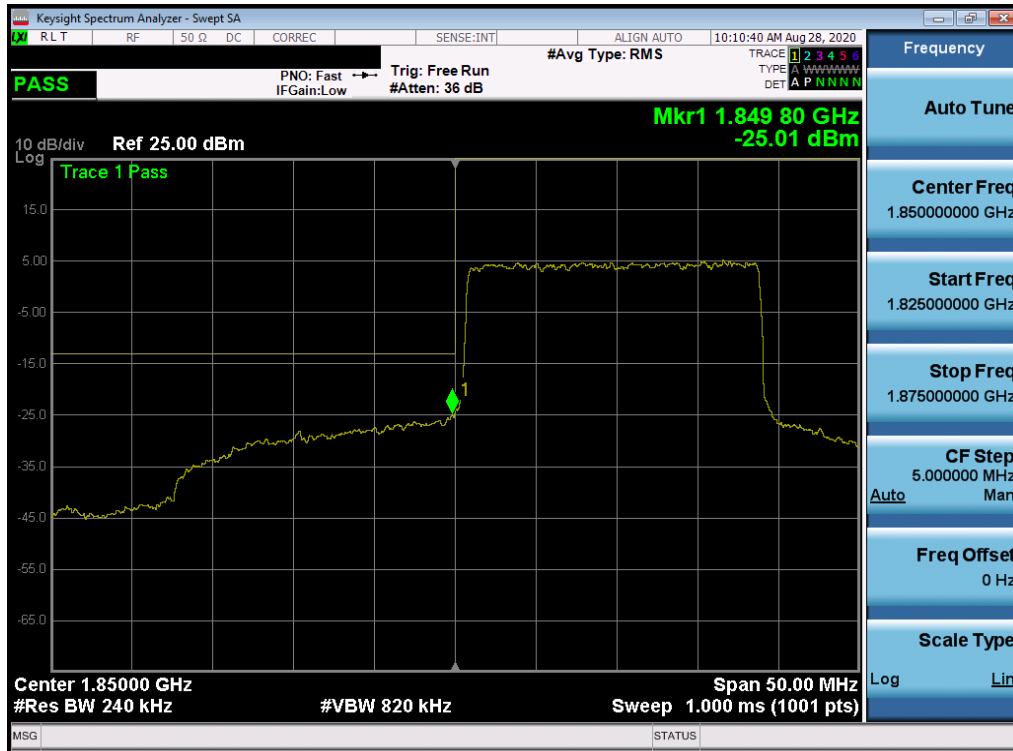


Plot 7-476. Upper Band Edge Plot (NR Band n2 - 15.0MHz - Full RB)

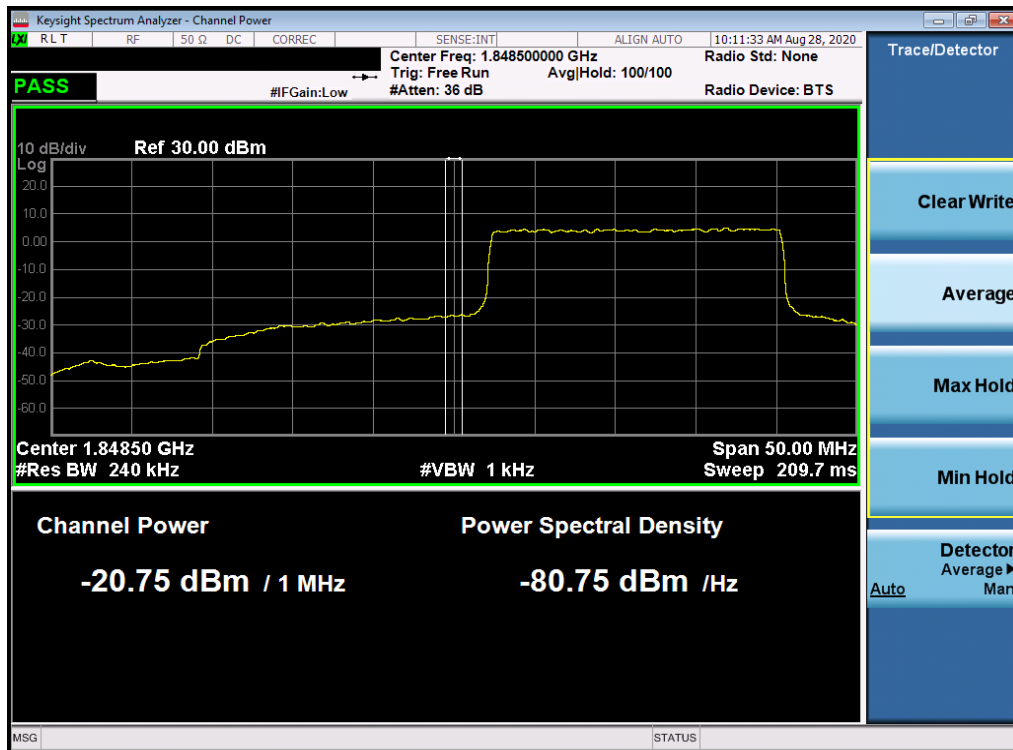


Plot 7-477. Upper Extended Band Edge Plot (NR Band n2 - 15.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 265 of 389

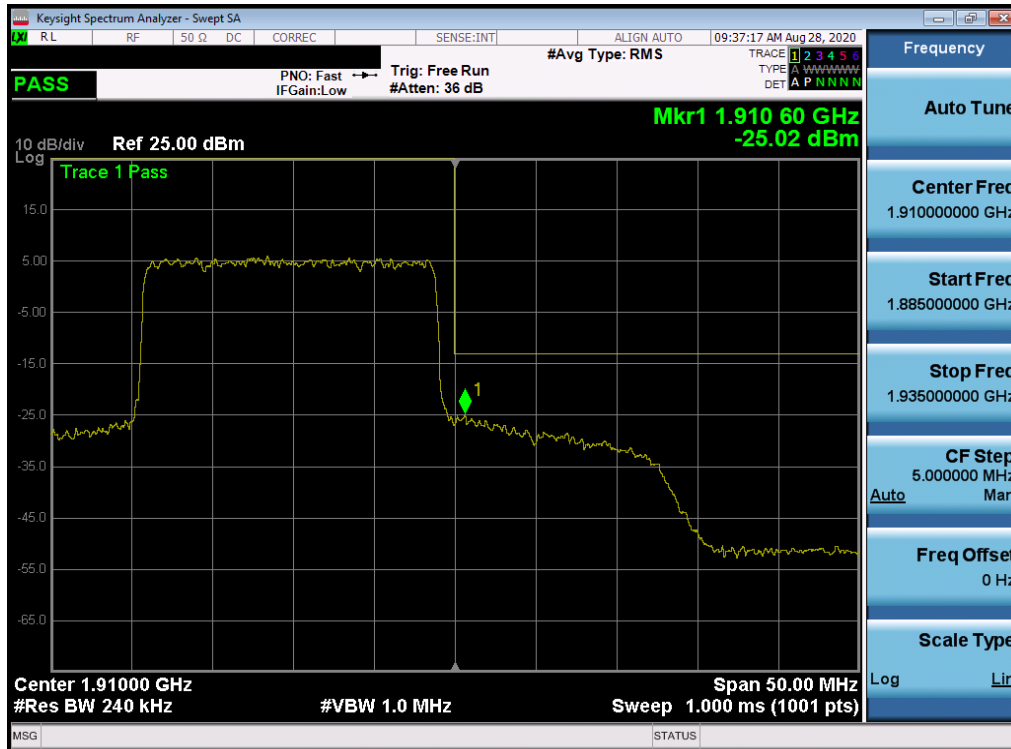


Plot 7-478. Lower Band Edge Plot (NR Band n2 – 20.0MHz - Full RB)

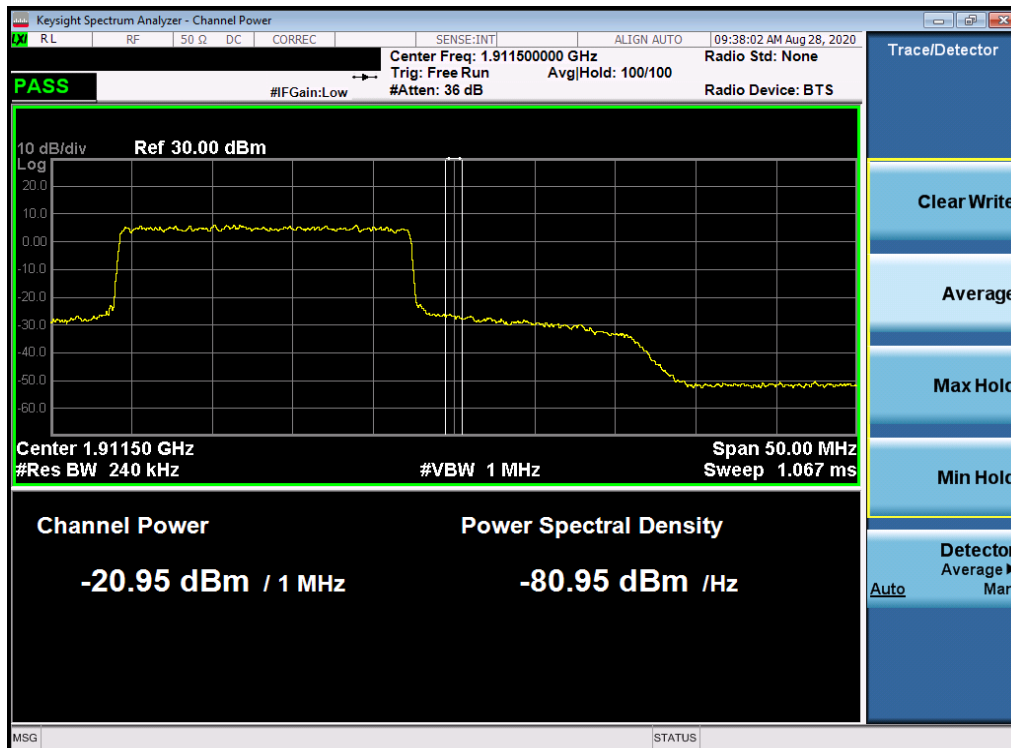


Plot 7-479. Lower Extended Band Edge Plot (NR Band n2 – 20.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 266 of 389



Plot 7-480. Upper Band Edge Plot (NR Band n2 – 20.0MHz - Full RB)



Plot 7-481. Upper Extended Band Edge Plot (NR Band n2 – 20.0MHz - Full RB)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 267 of 389

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. 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.

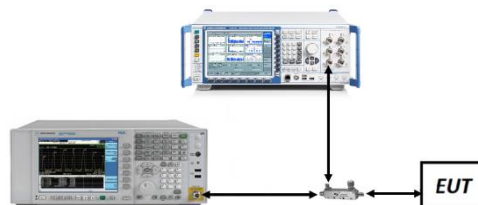


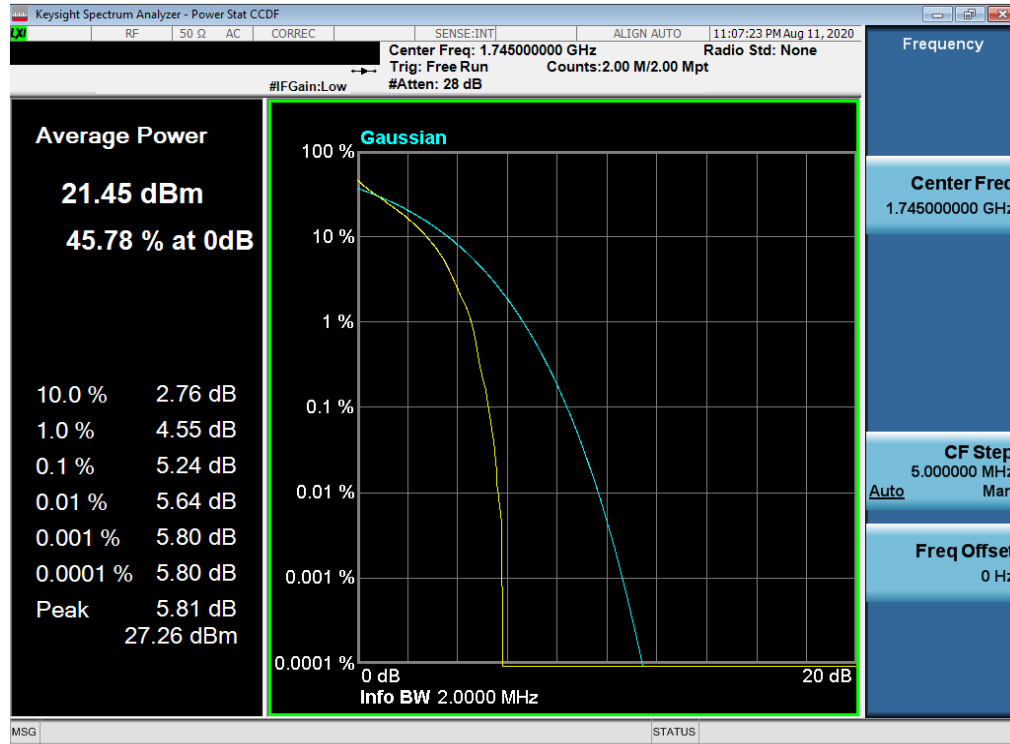
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

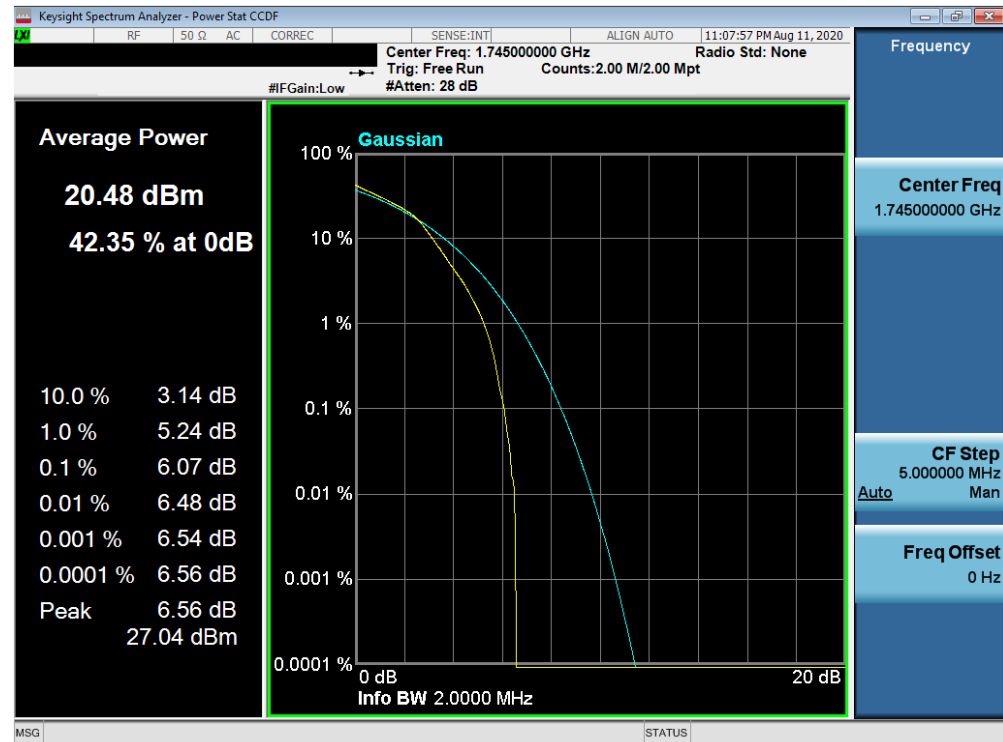
None.

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 268 of 389

LTE Band 66/4



Plot 7-482. PAR Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-483. PAR Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFK920AM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2007130107-03.ZNF	Test Dates: 07/30/2020 - 09/03/2020	EUT Type: Portable Handset		Page 269 of 389