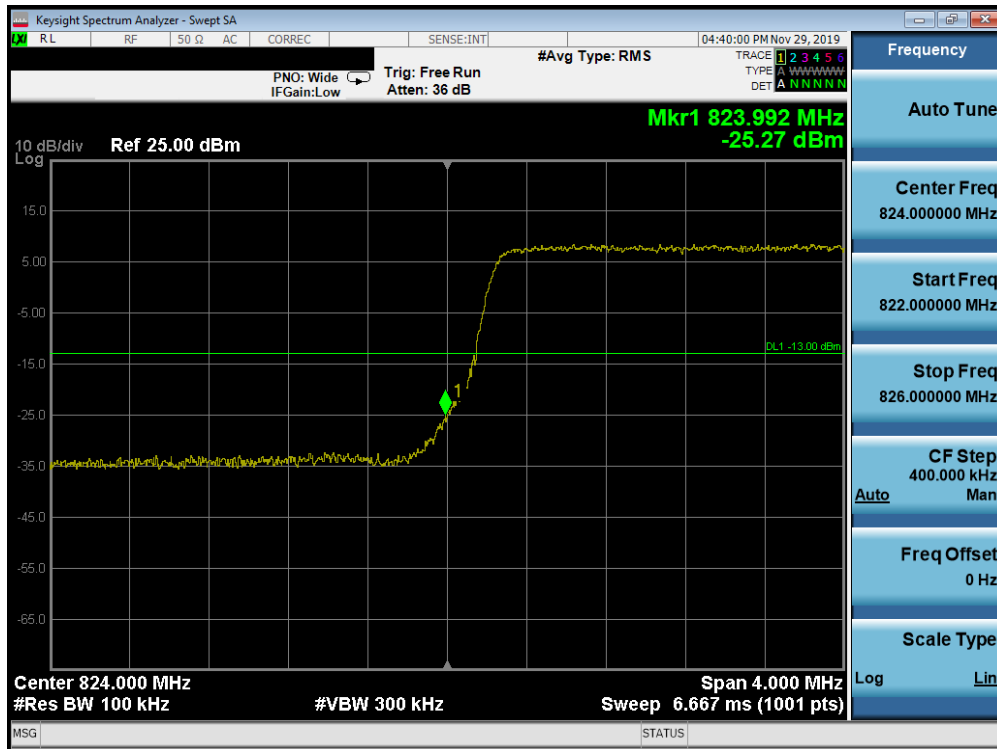
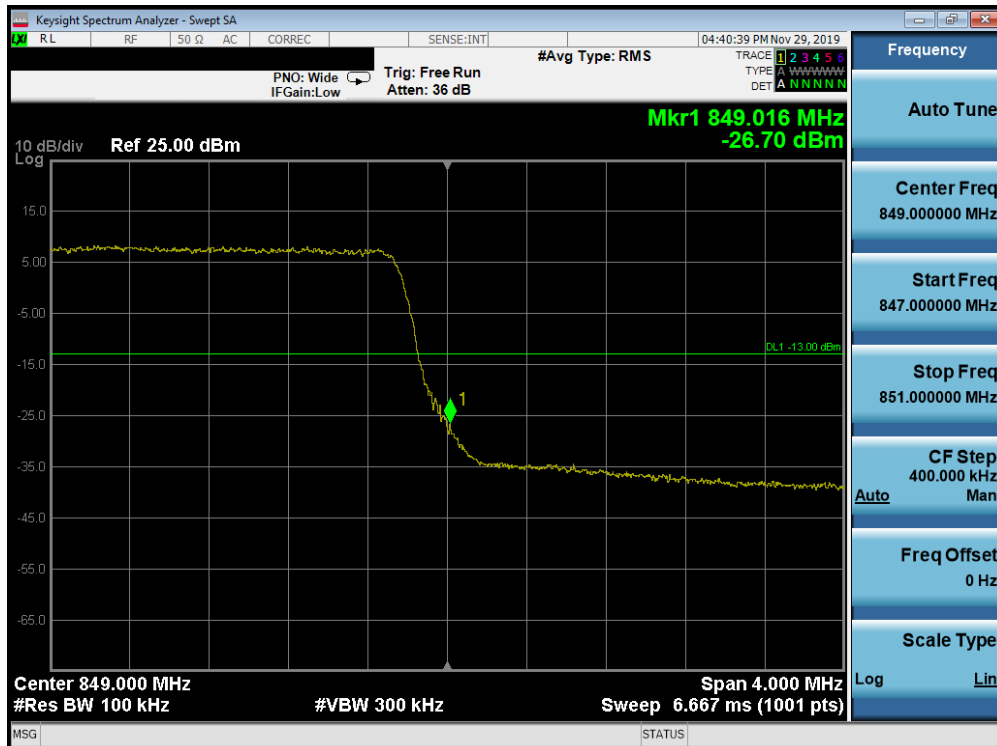


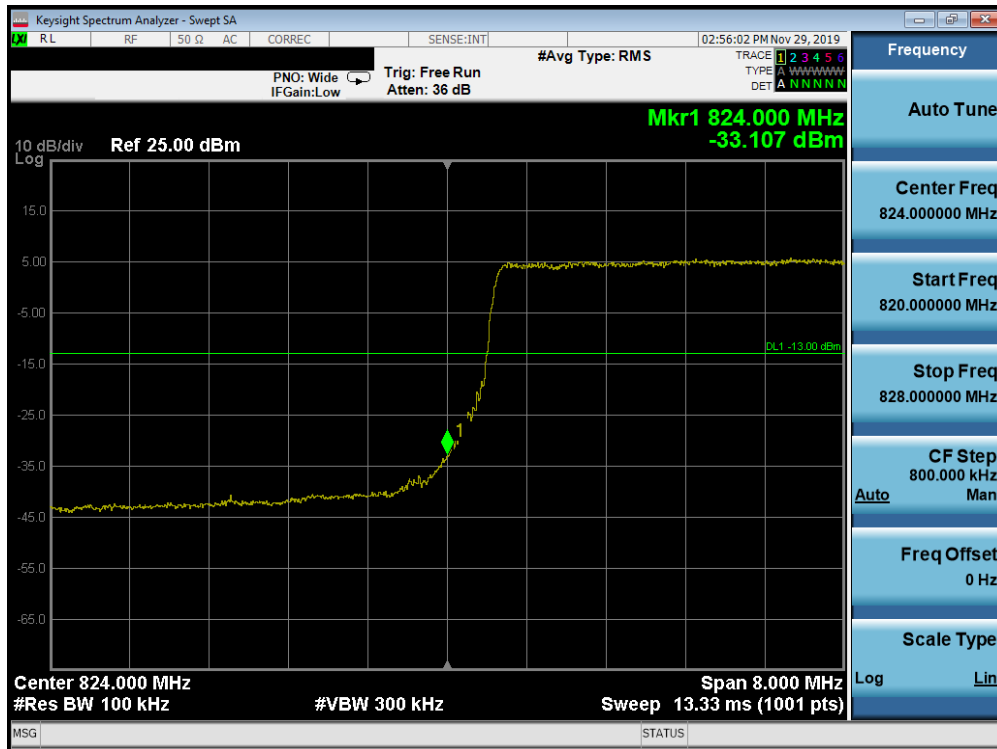


Plot 7-266. Lower Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-267. Upper Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 160 of 488

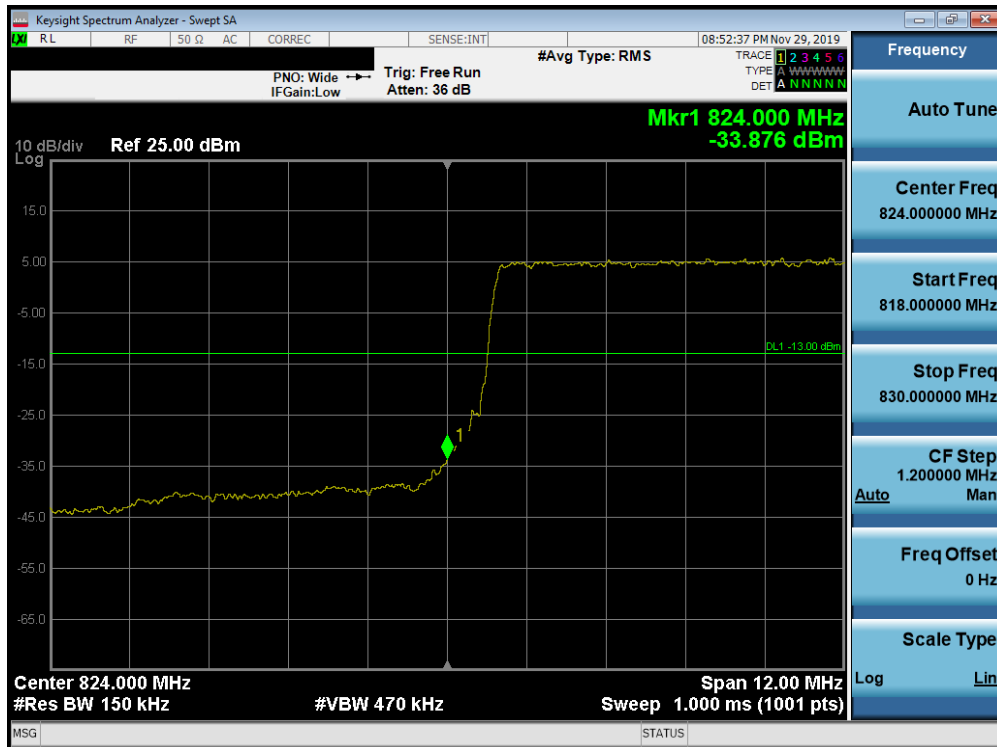


Plot 7-268. Lower Band Edge Plot (Band 26/5 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-269. Upper Band Edge Plot (Band 26/5 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 161 of 488



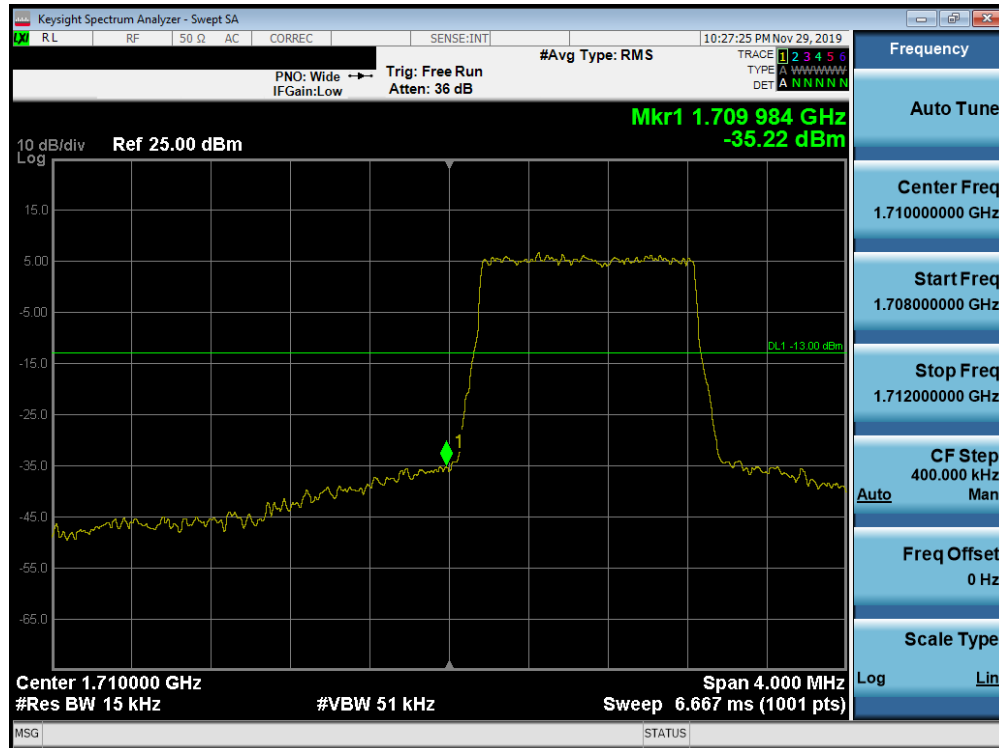
Plot 7-270. Lower Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)



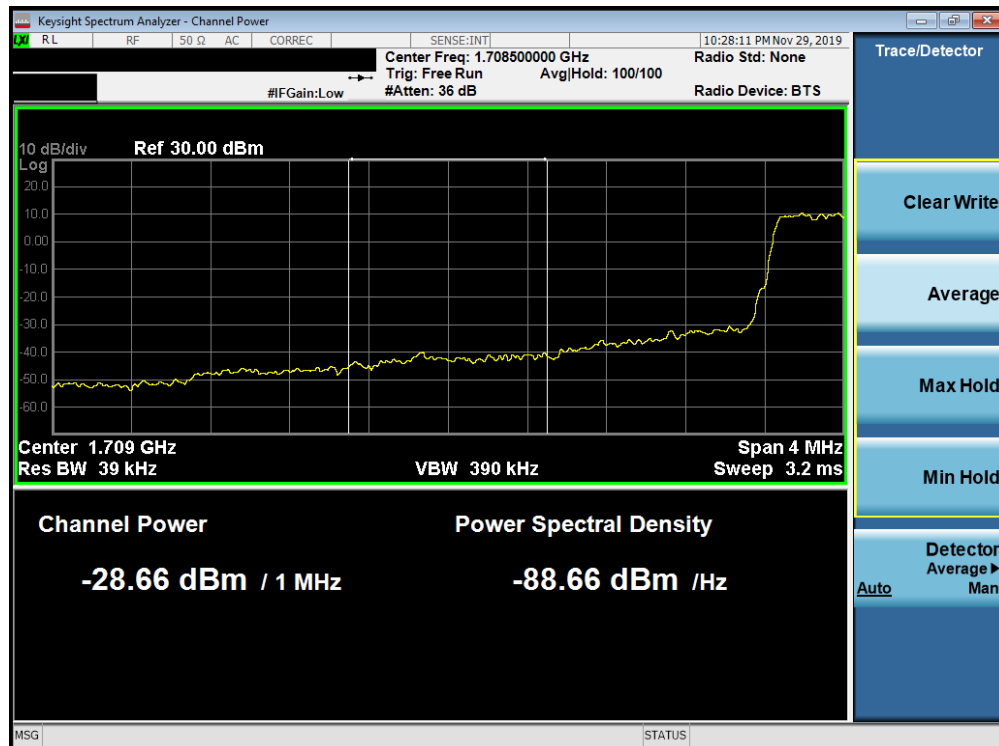
Plot 7-271. Upper Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 162 of 488

Band 66/4

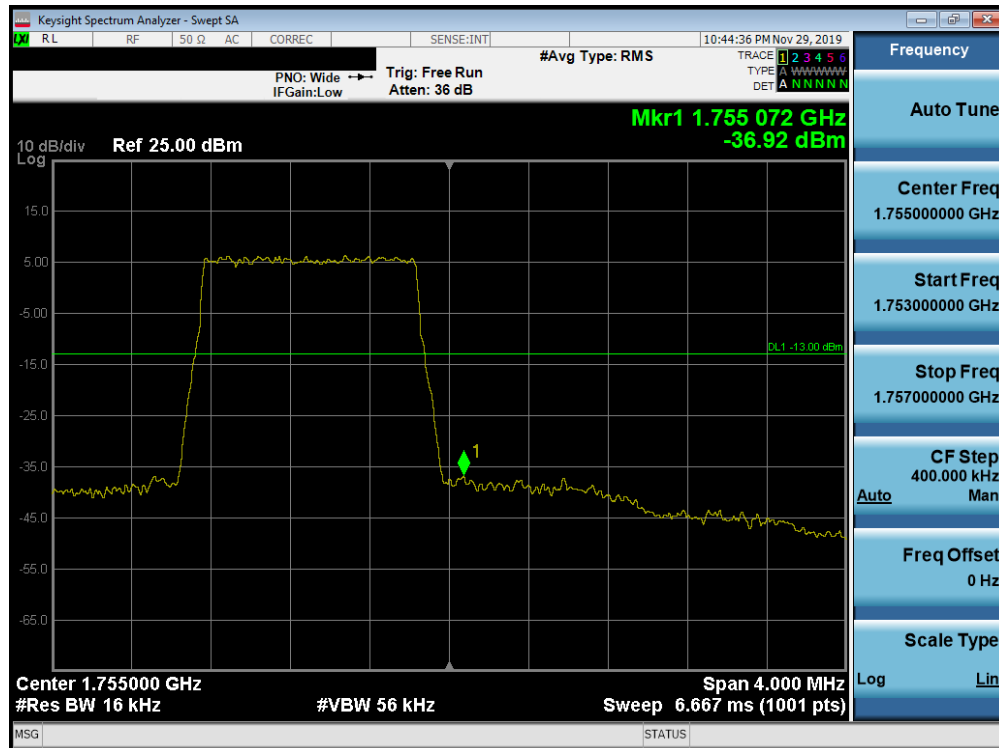


Plot 7-272. Lower Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

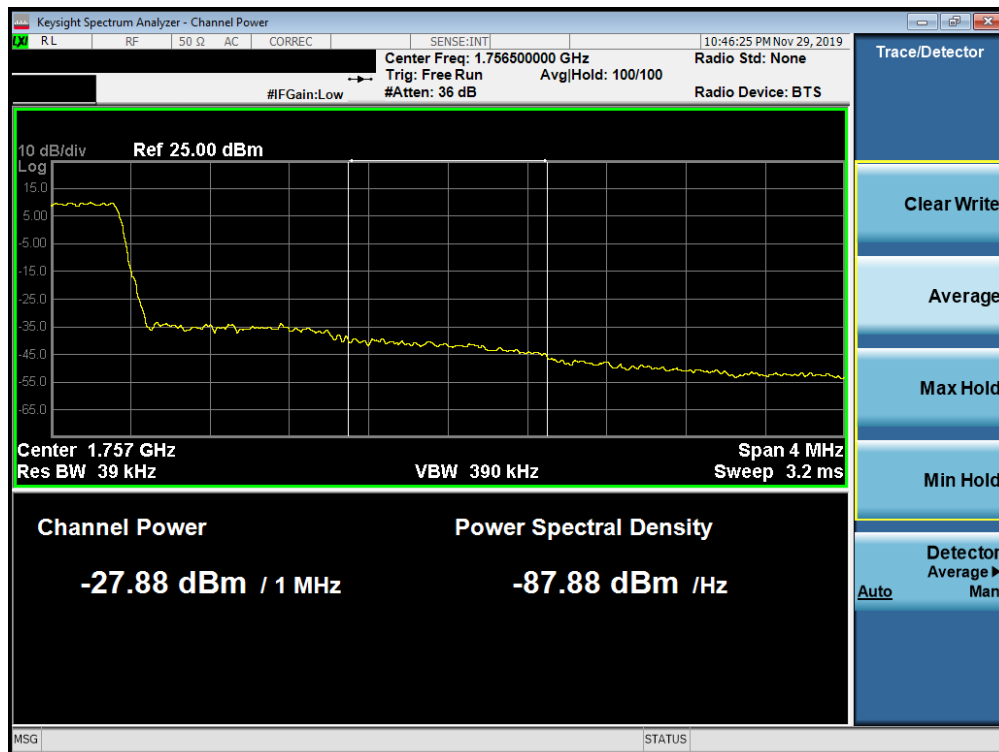


Plot 7-273. Lower Extended Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 163 of 488

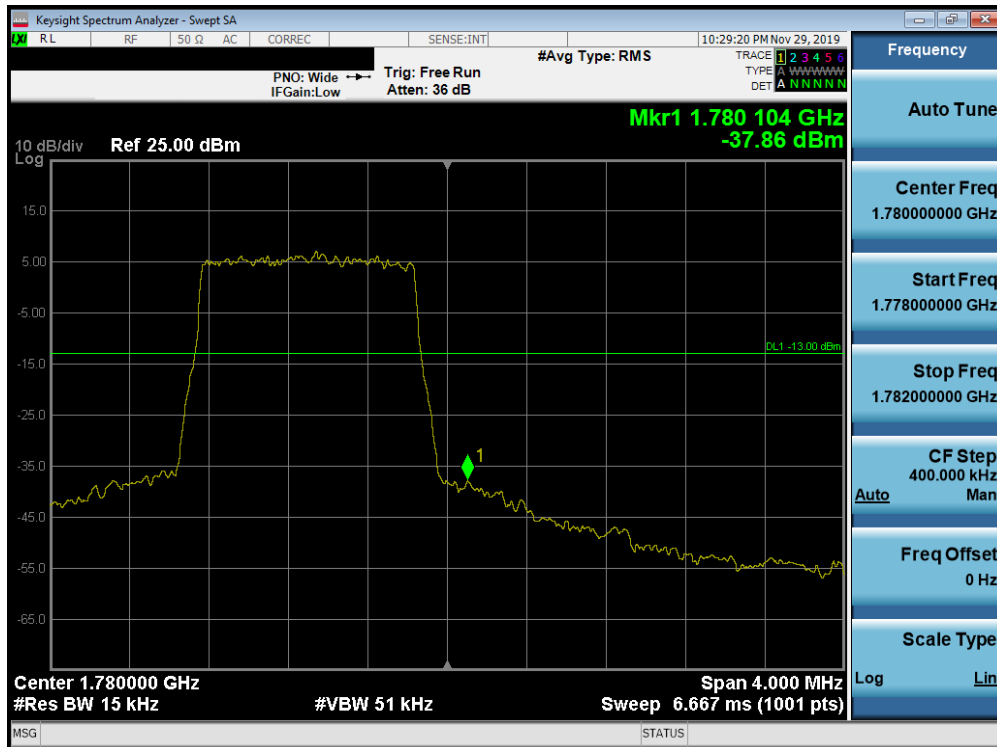


Plot 7-274. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

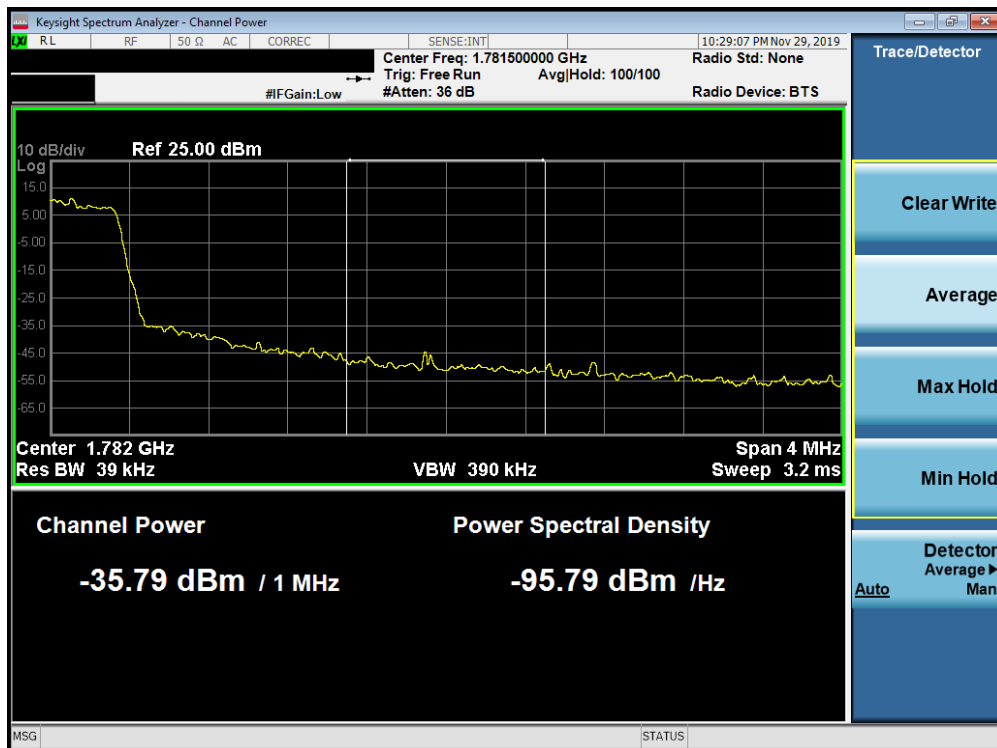


Plot 7-275. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 164 of 488

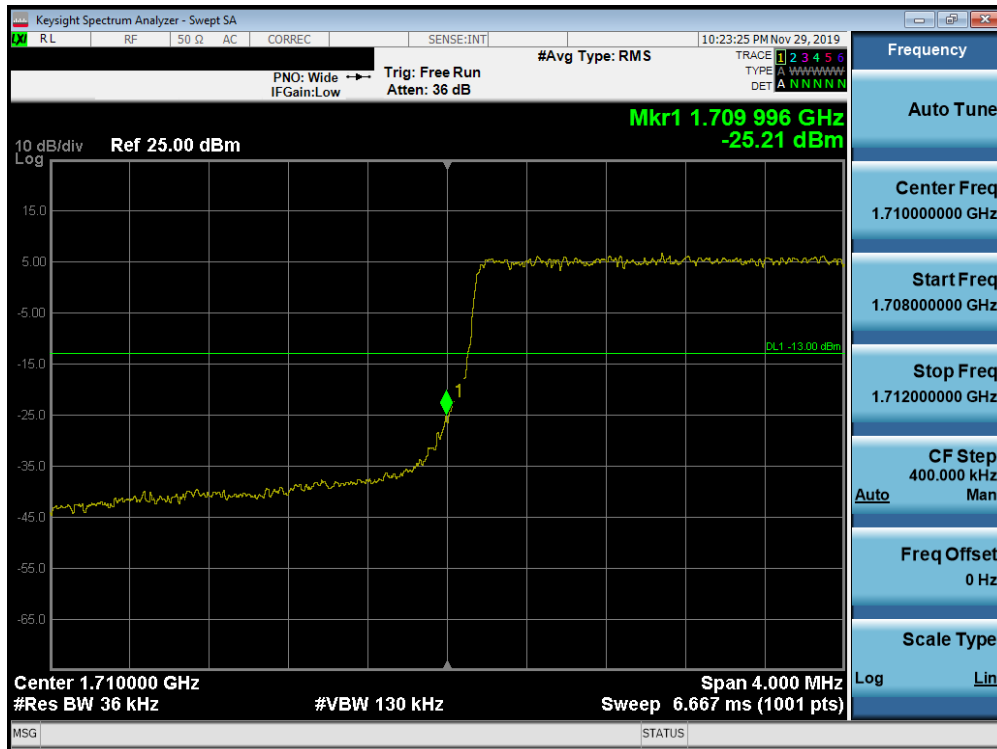


Plot 7-276. Upper Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

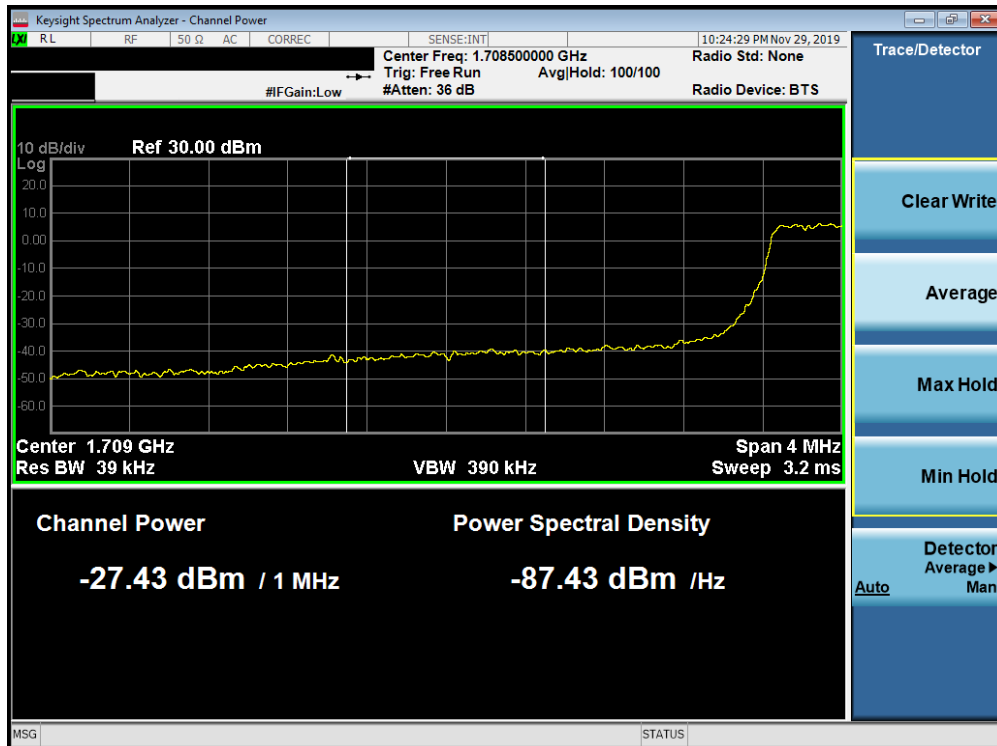


Plot 7-277. Upper Extended Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 165 of 488

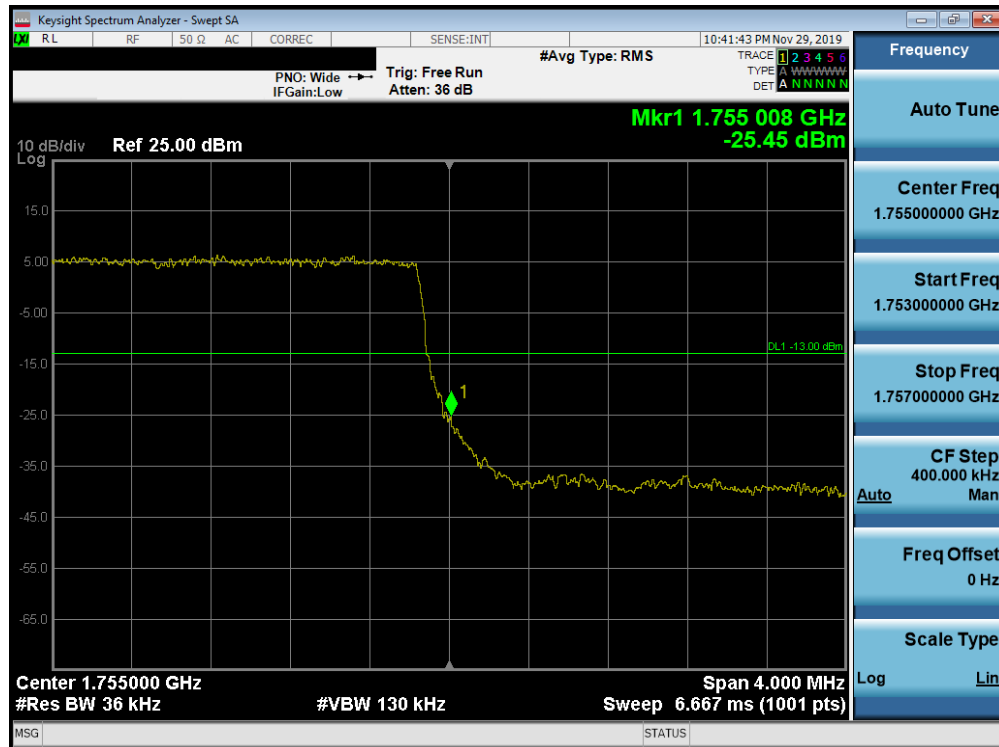


Plot 7-278. Lower Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

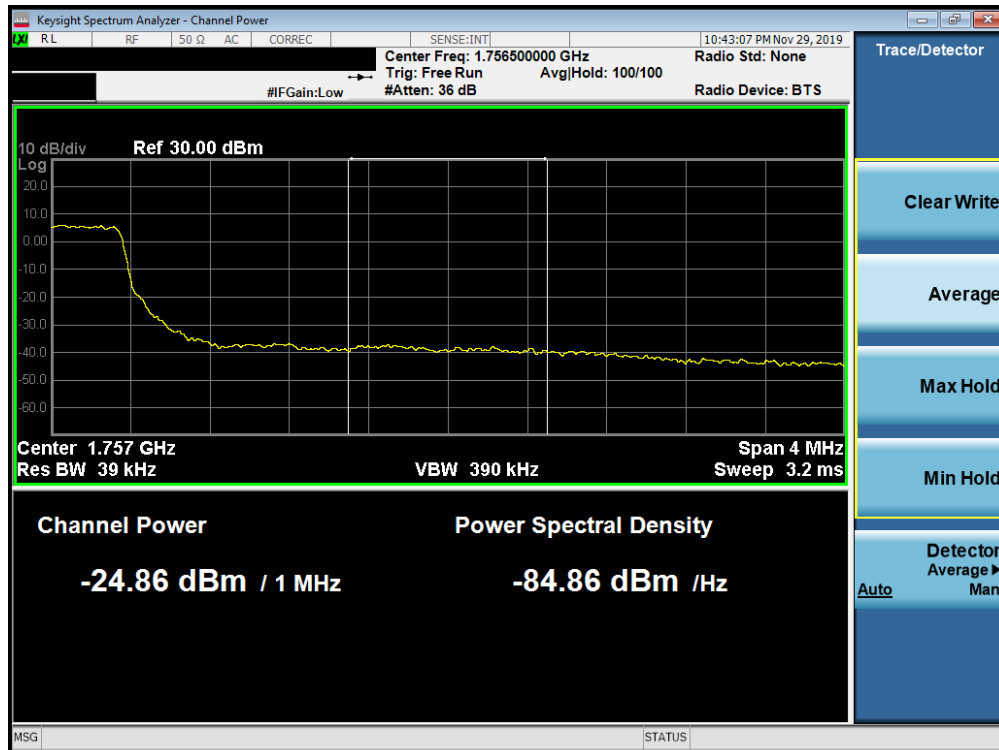


Plot 7-279. Lower Extended Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 166 of 488

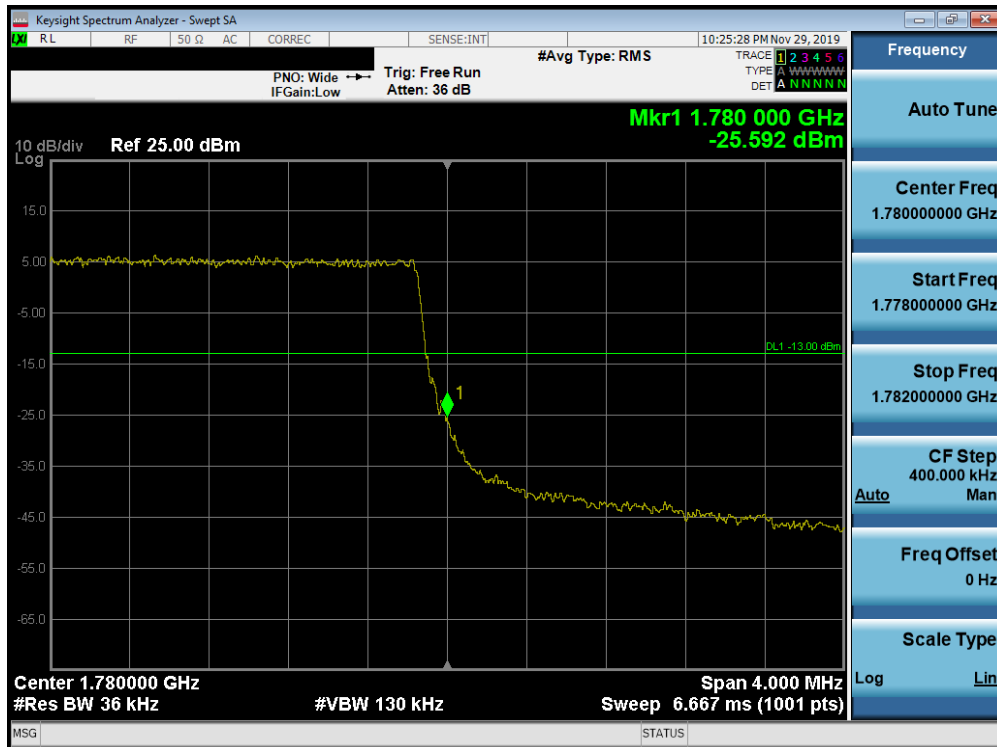


Plot 7-280. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

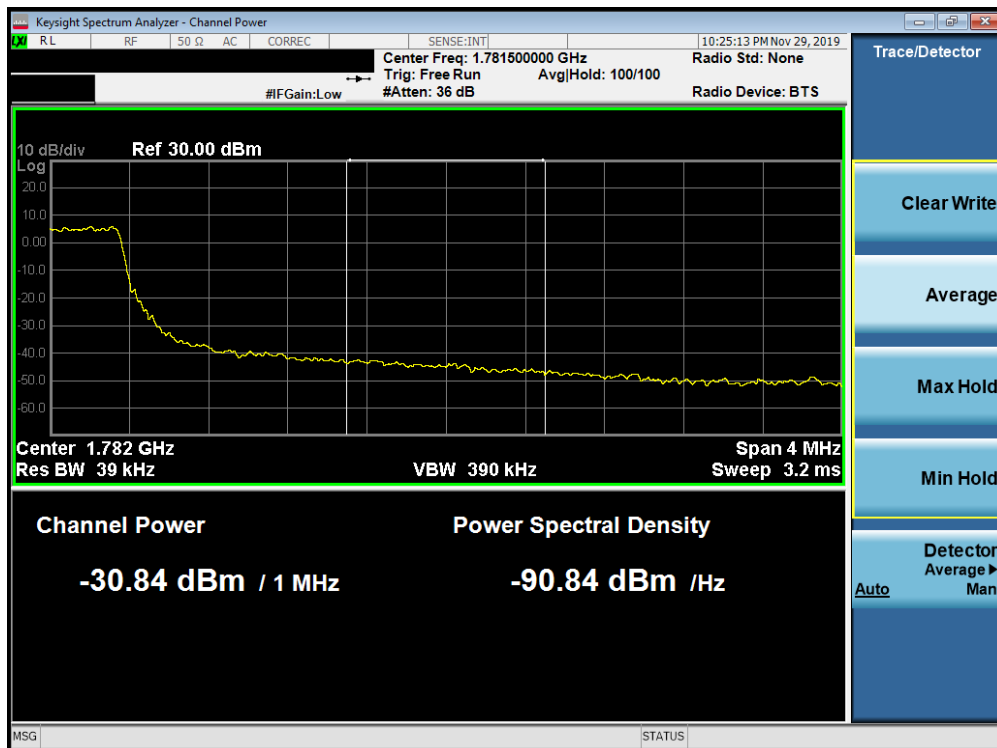


Plot 7-281. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 167 of 488

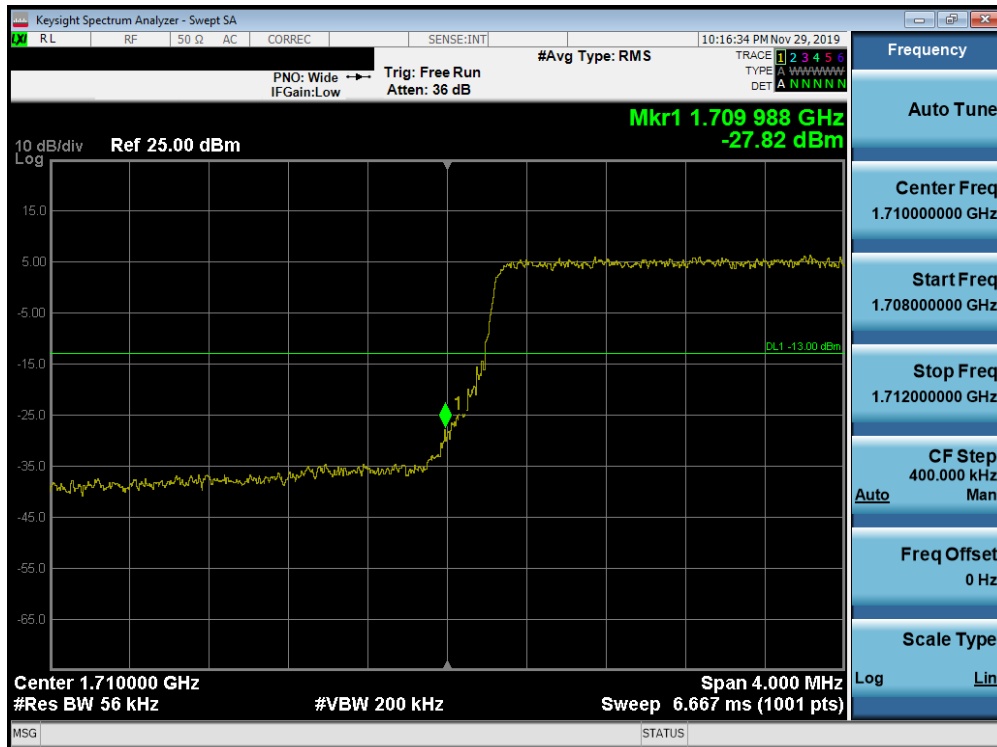


Plot 7-282. Upper Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

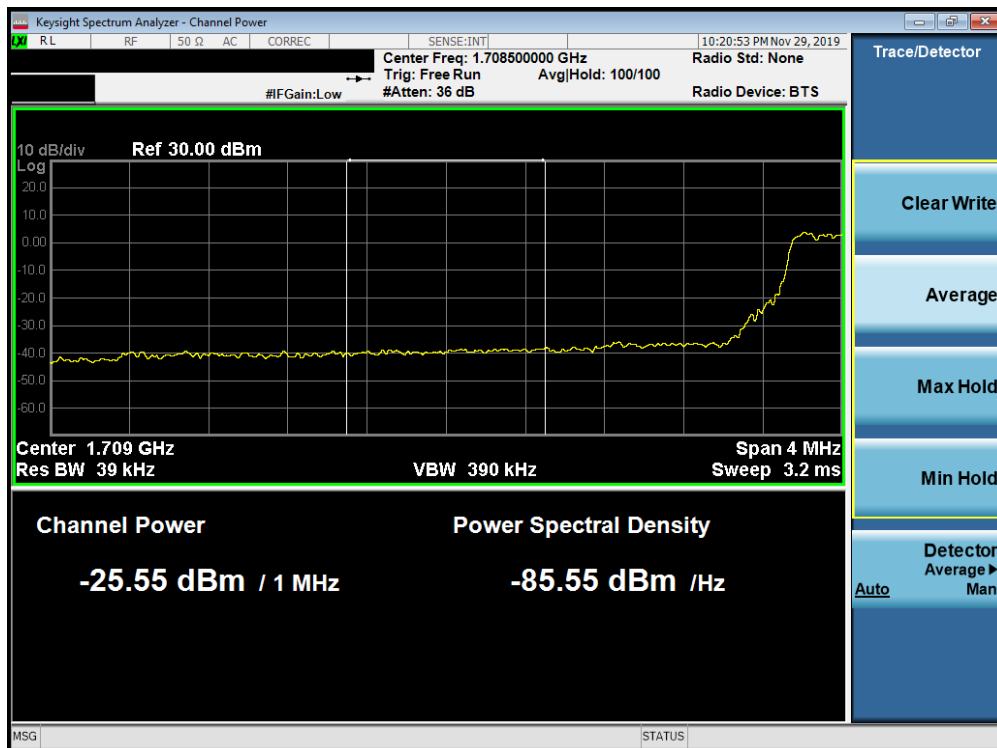


Plot 7-283. Upper Extended Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 168 of 488

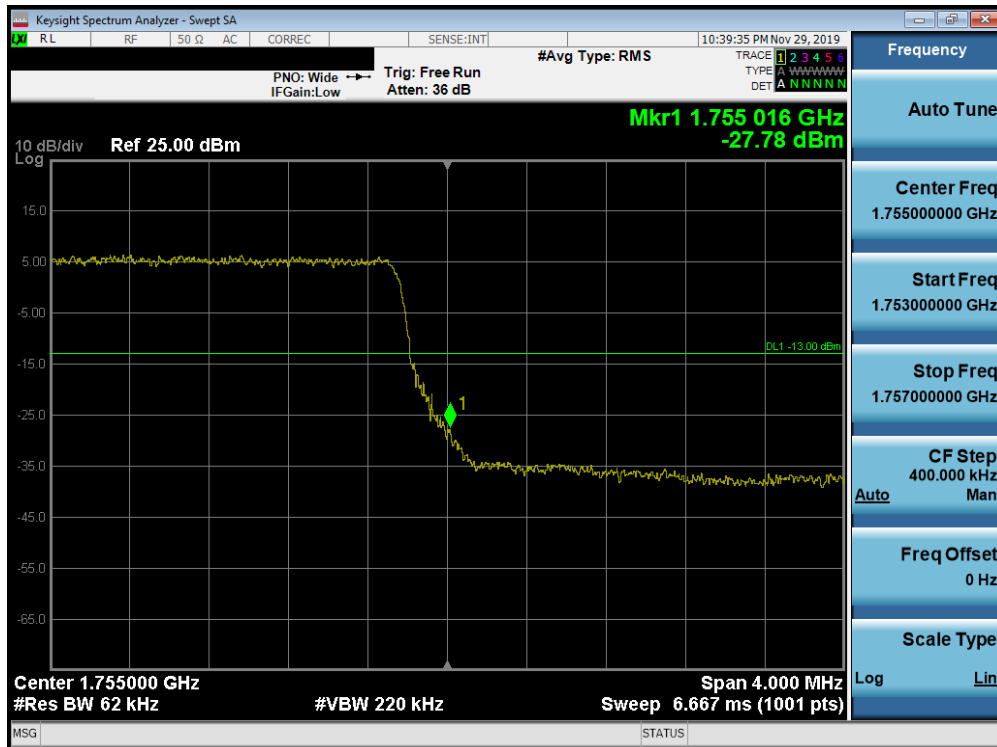


Plot 7-284. Lower Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

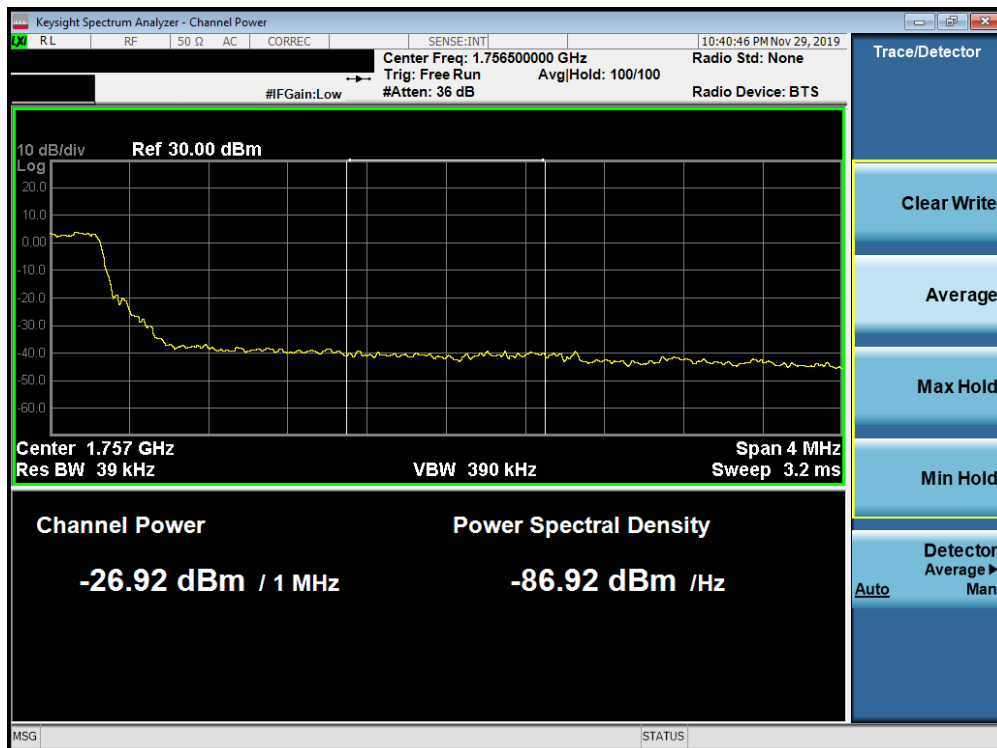


Plot 7-285. Lower Extended Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 169 of 488

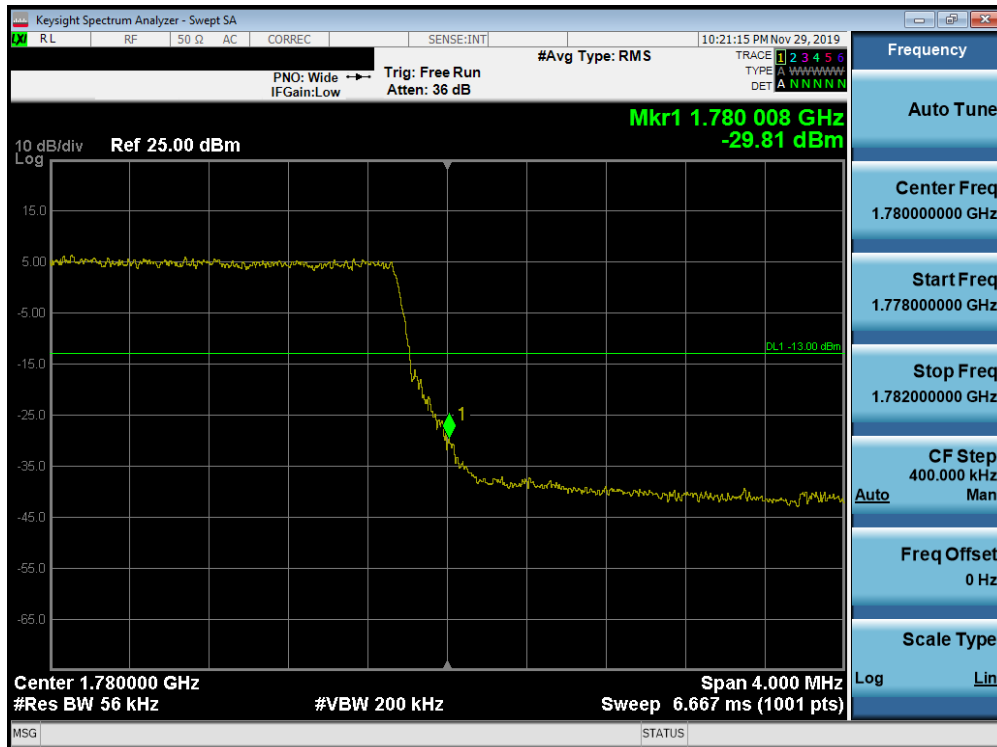


Plot 7-286. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

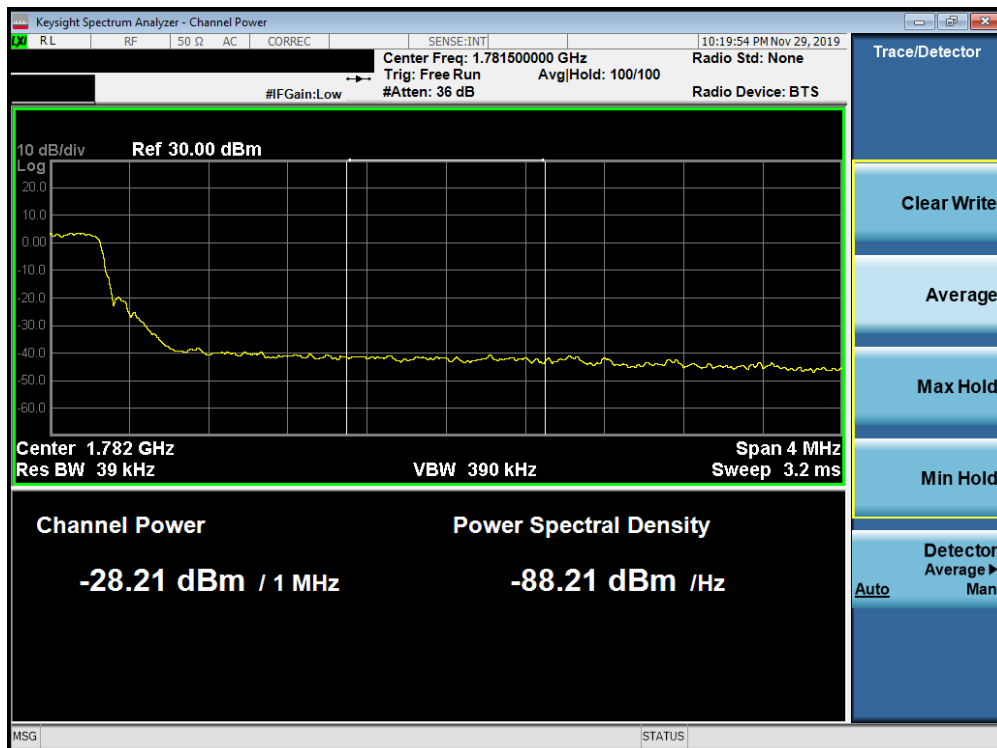


Plot 7-287. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 170 of 488

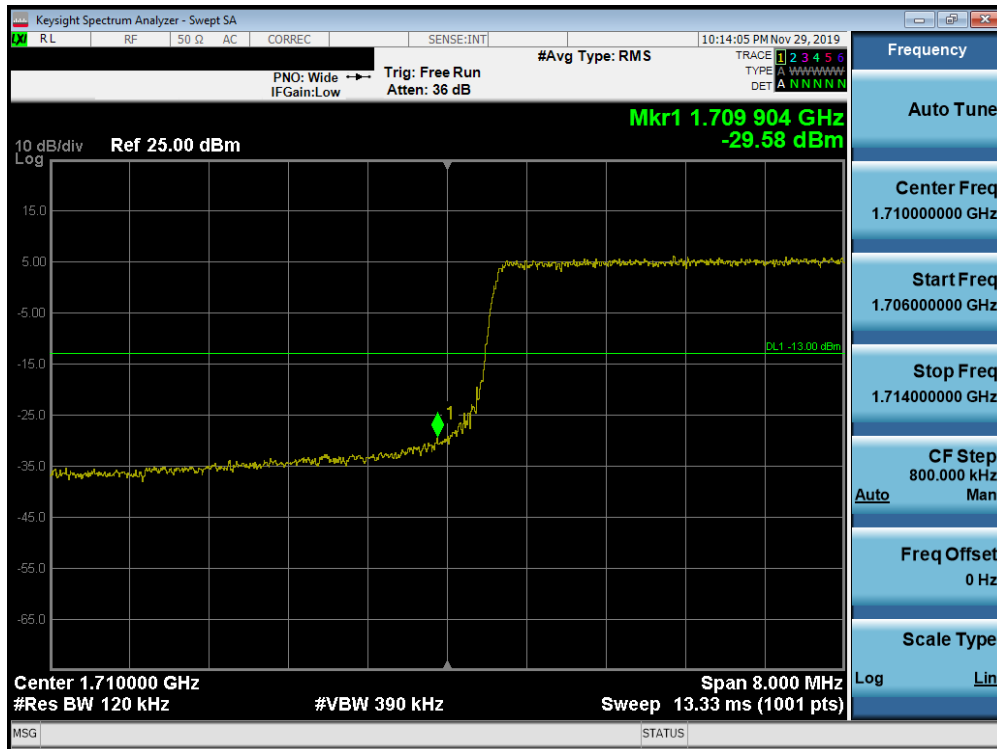


Plot 7-288. Upper Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

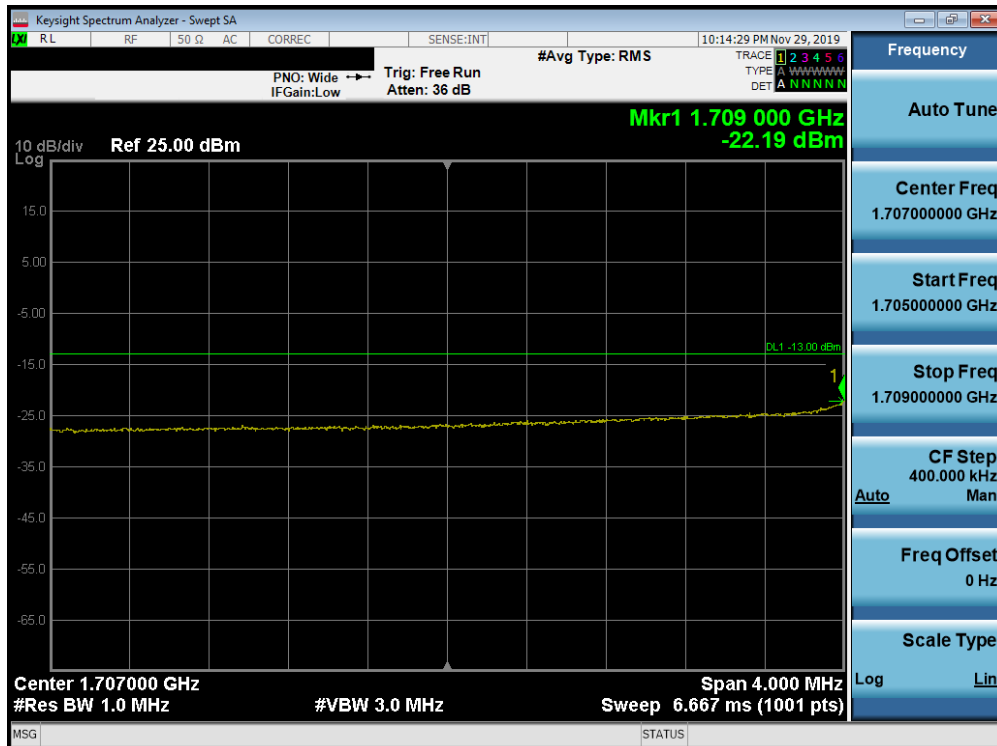


Plot 7-289. Upper Extended Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 171 of 488

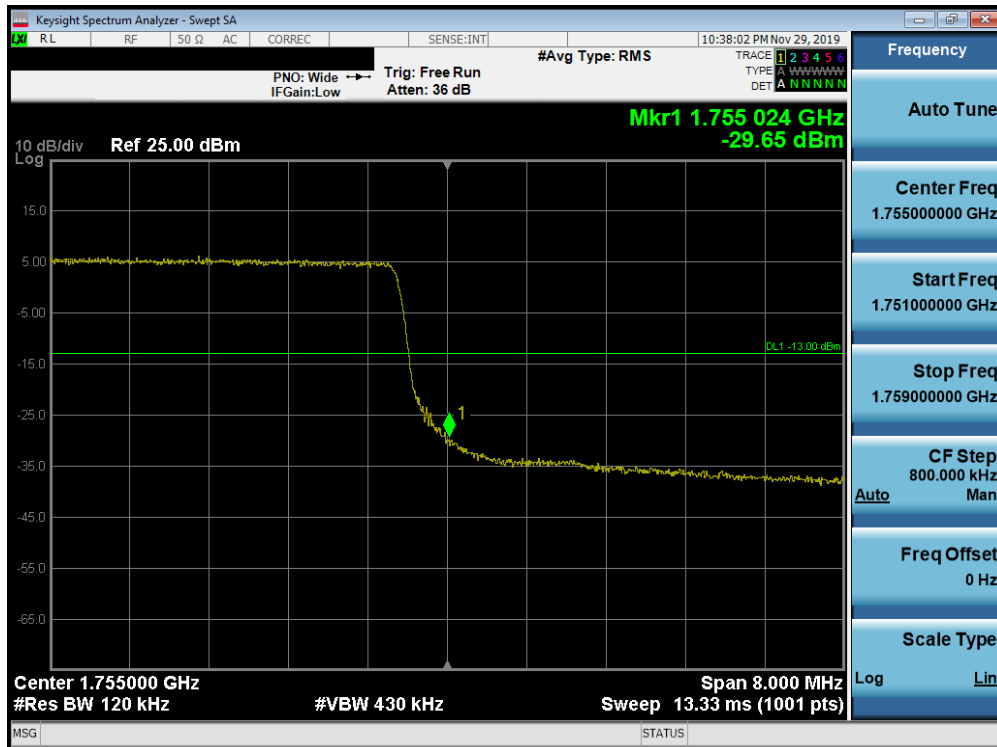


Plot 7-290. Lower Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

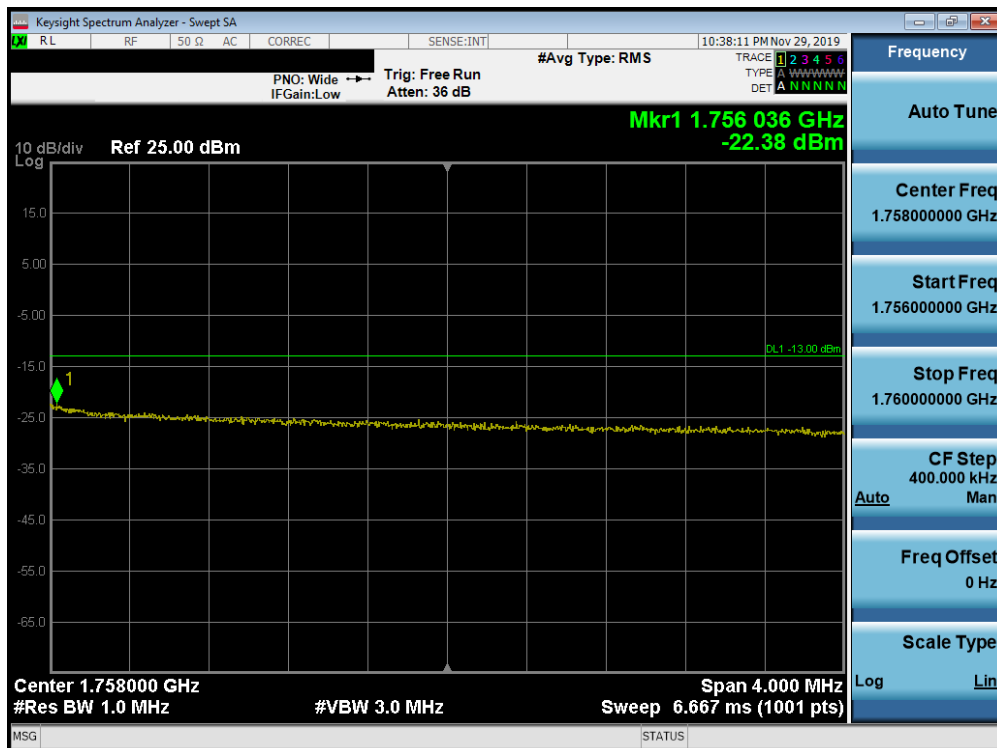


Plot 7-291. Lower Extended Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 172 of 488

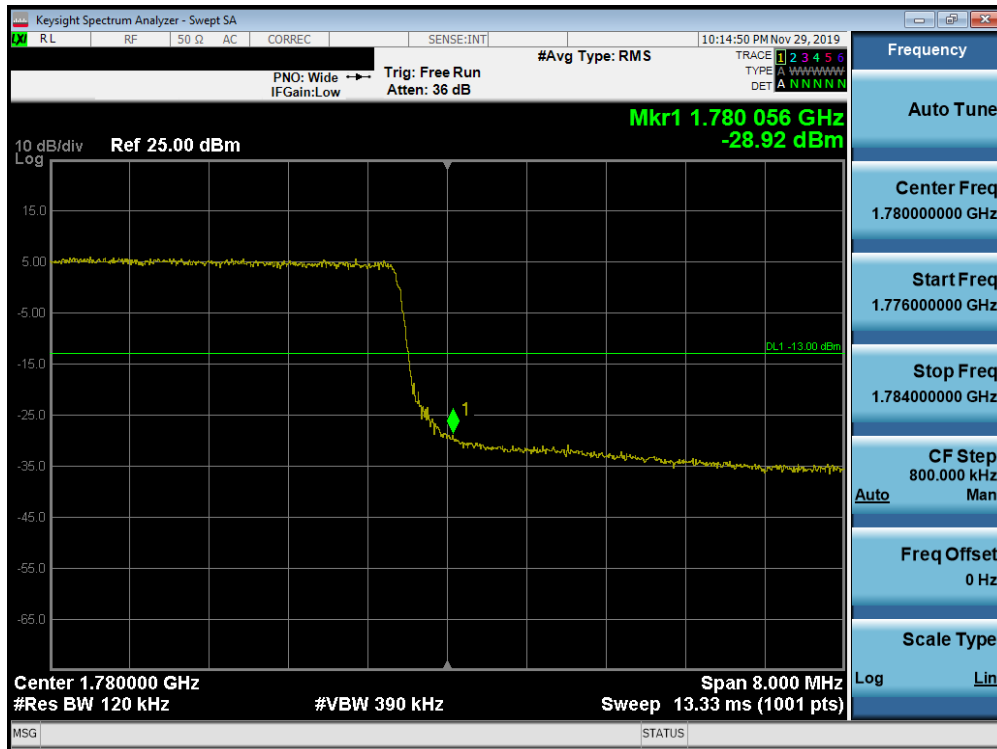


Plot 7-292. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

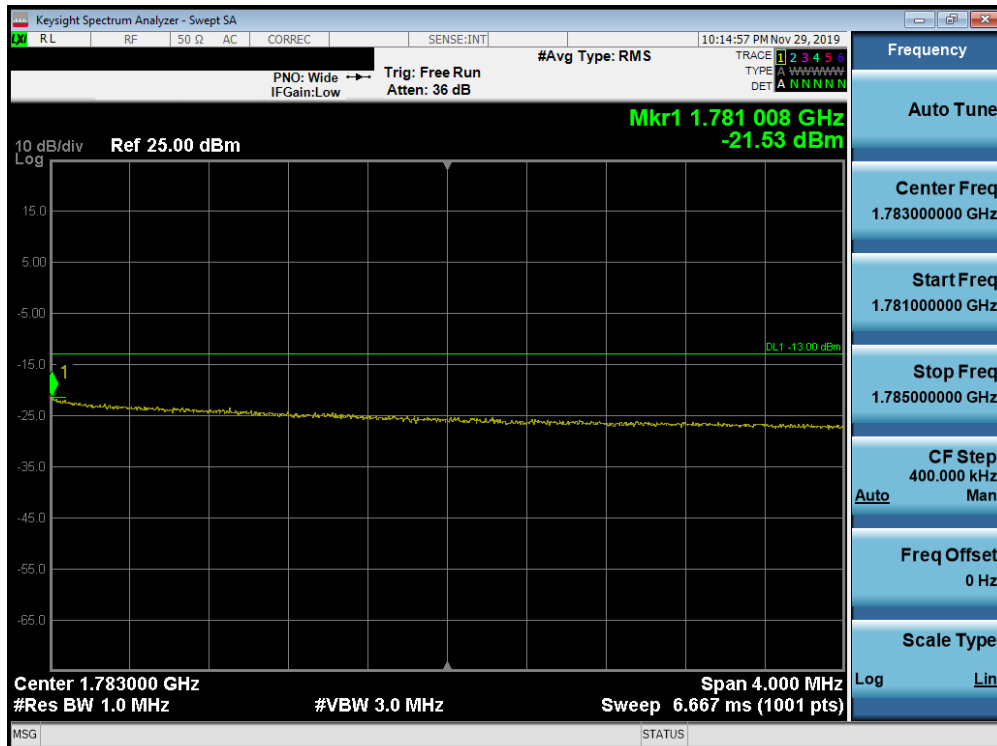


Plot 7-293. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset	Page 173 of 488	

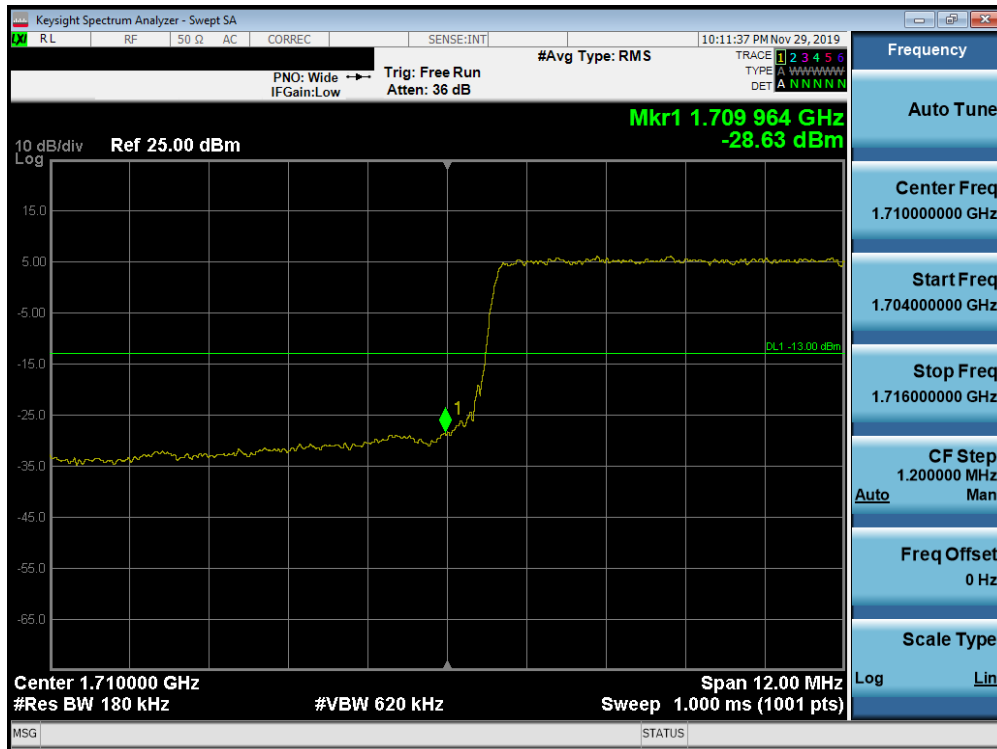


Plot 7-294. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

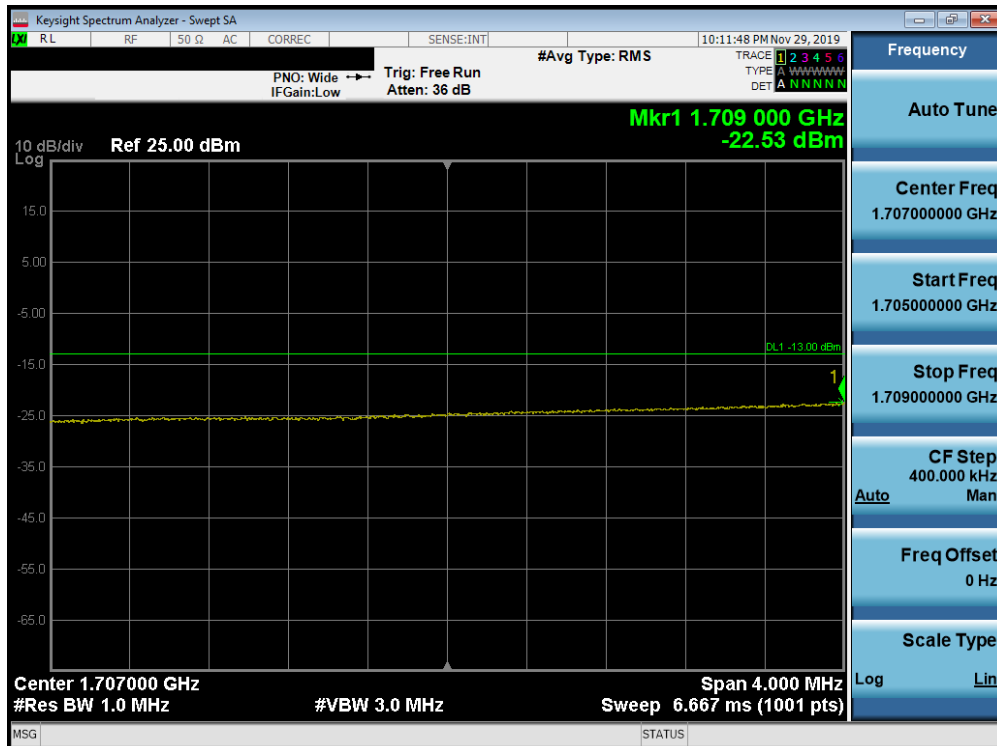


Plot 7-295. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 174 of 488

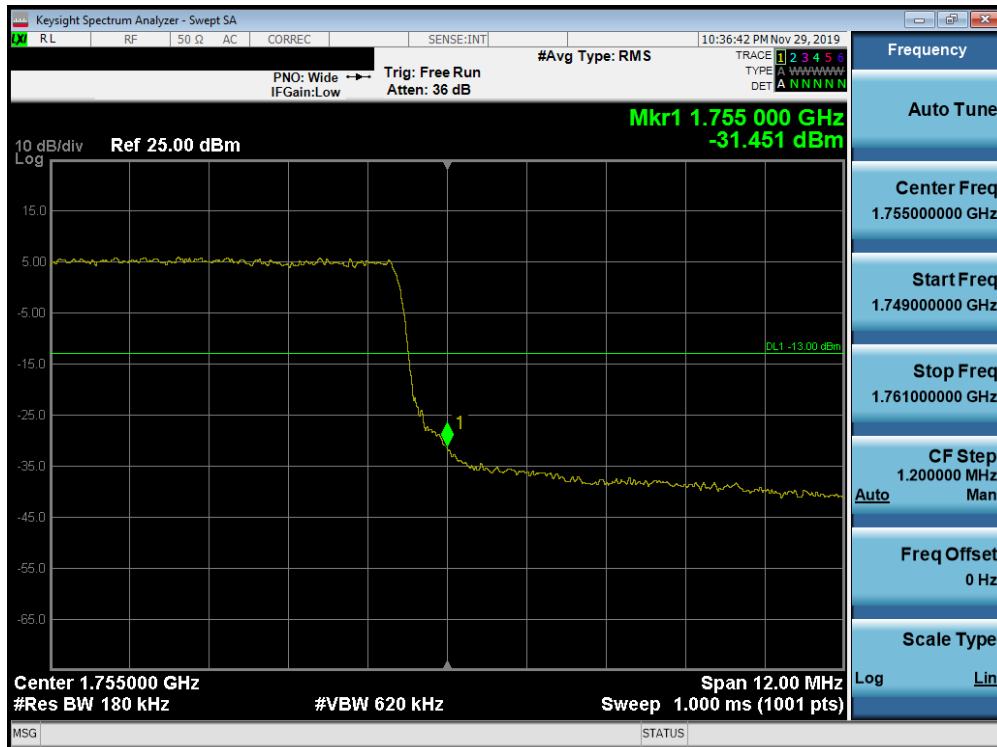


Plot 7-296. Lower Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

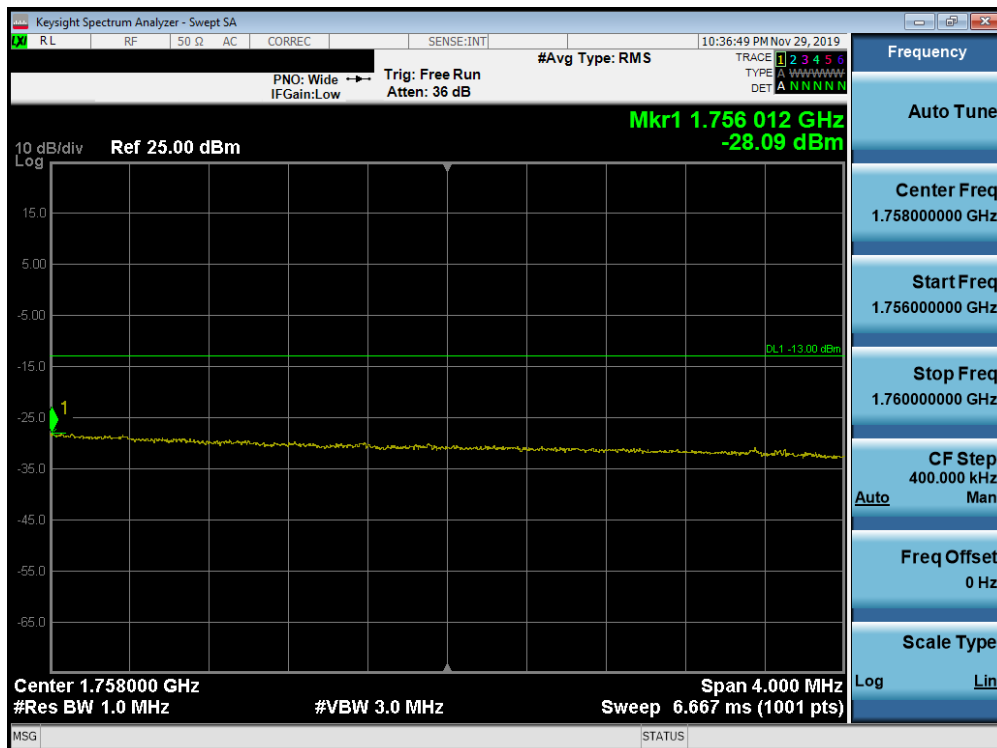


Plot 7-297. Lower Extended Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 175 of 488

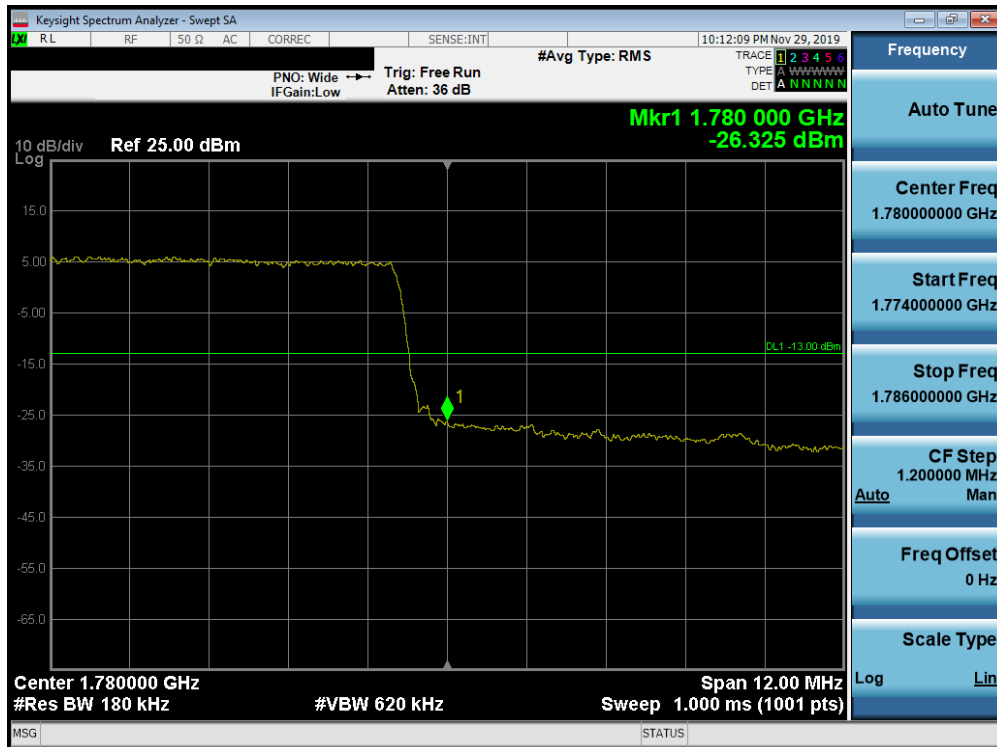


Plot 7-298. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

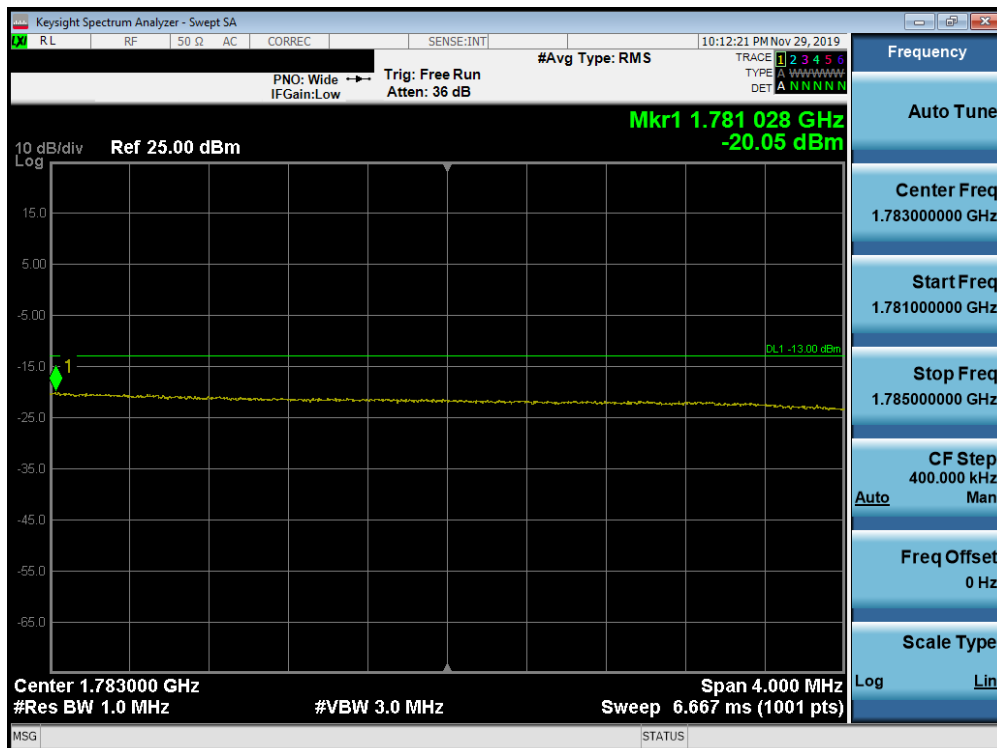


Plot 7-299. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 176 of 488

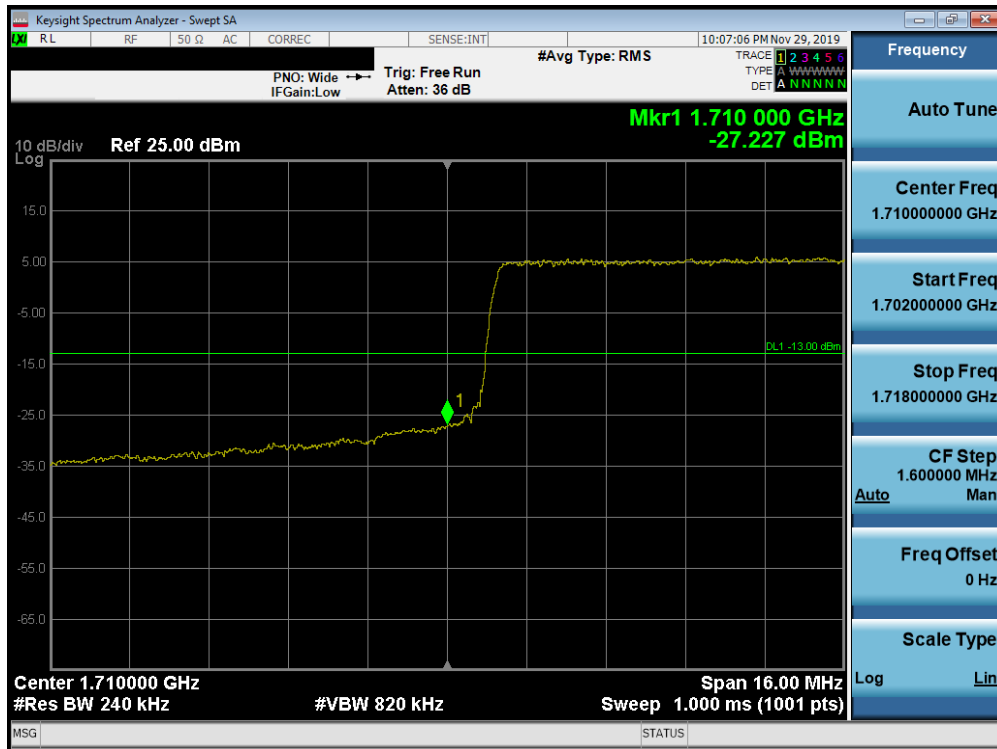


Plot 7-300. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

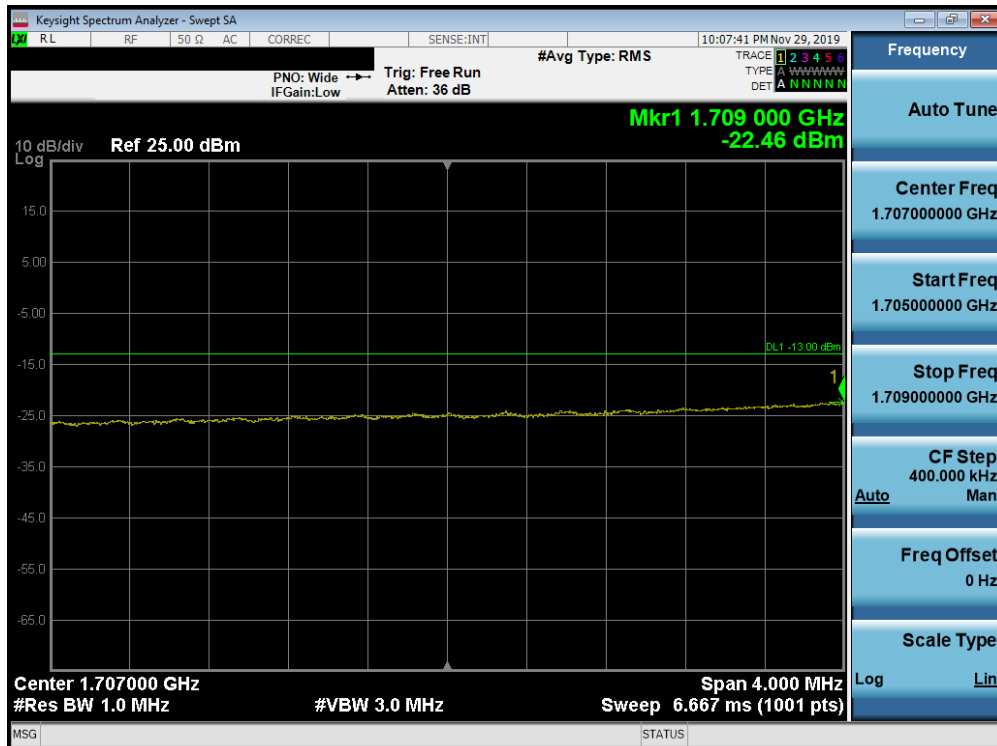


Plot 7-301. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 177 of 488

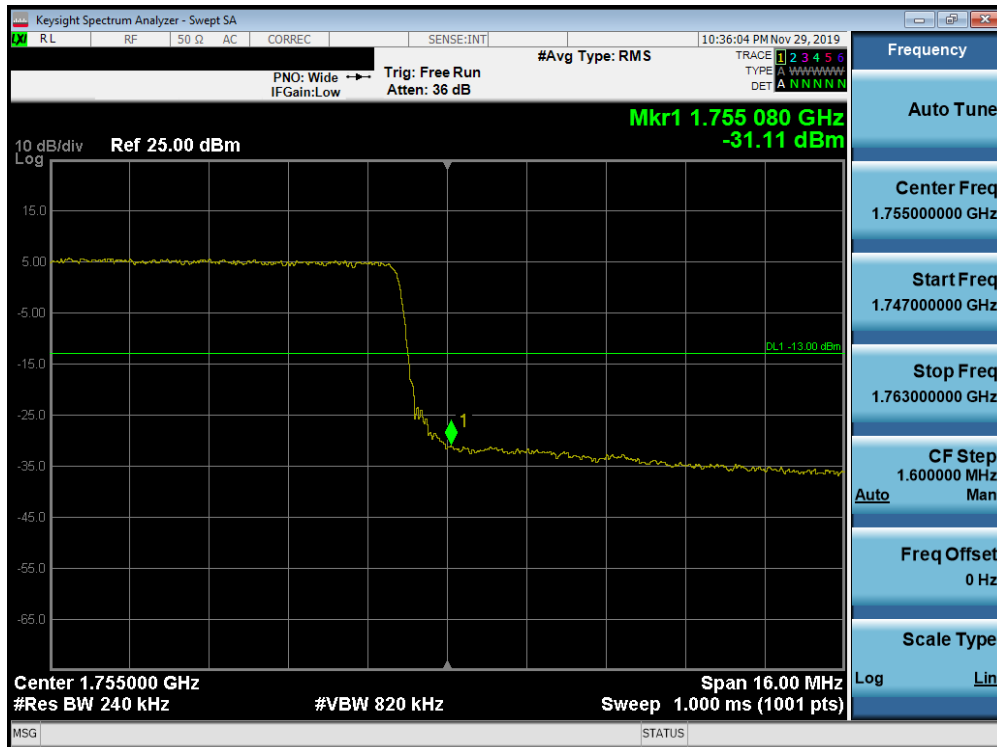


Plot 7-302. Lower Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

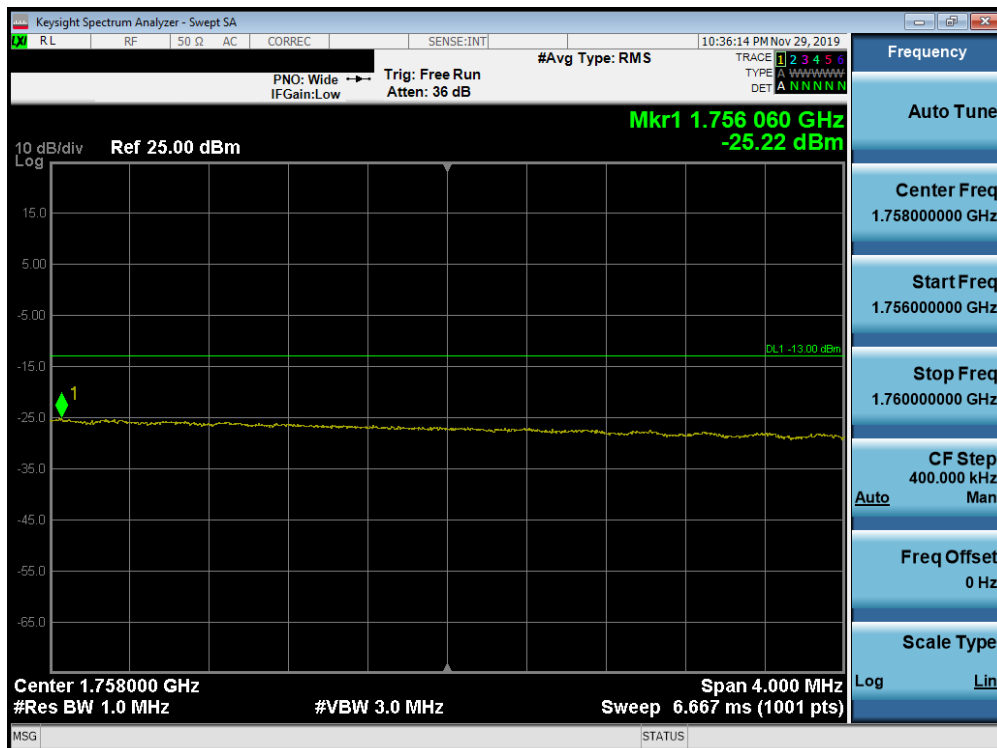


Plot 7-303. Lower Extended Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 178 of 488

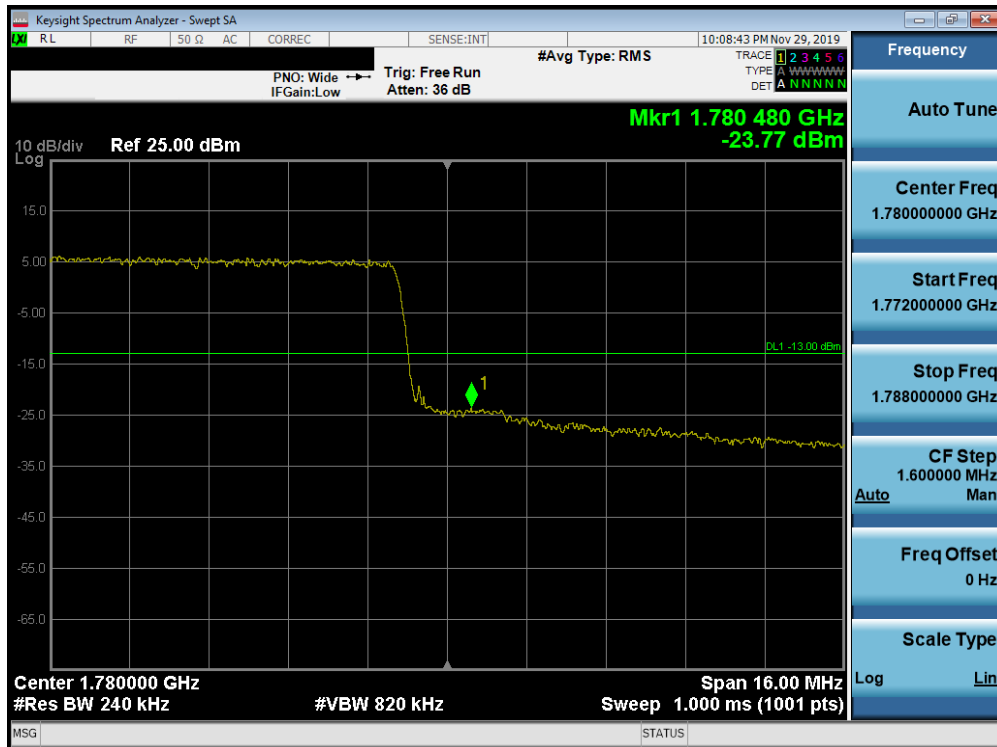


Plot 7-304. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

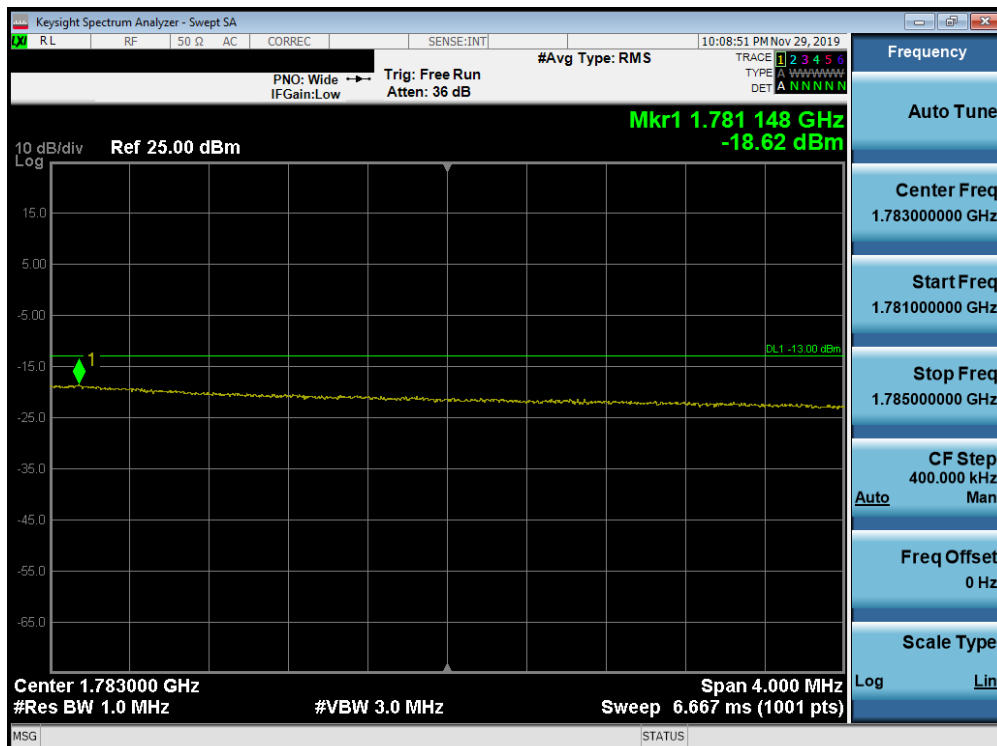


Plot 7-305. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 179 of 488

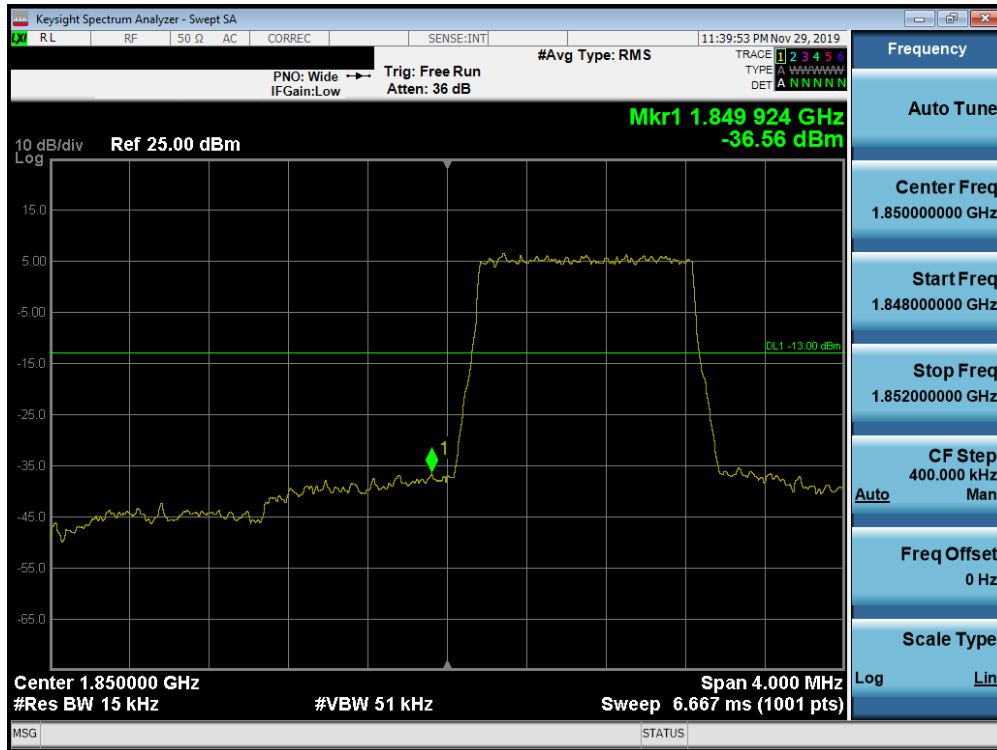


Plot 7-306. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

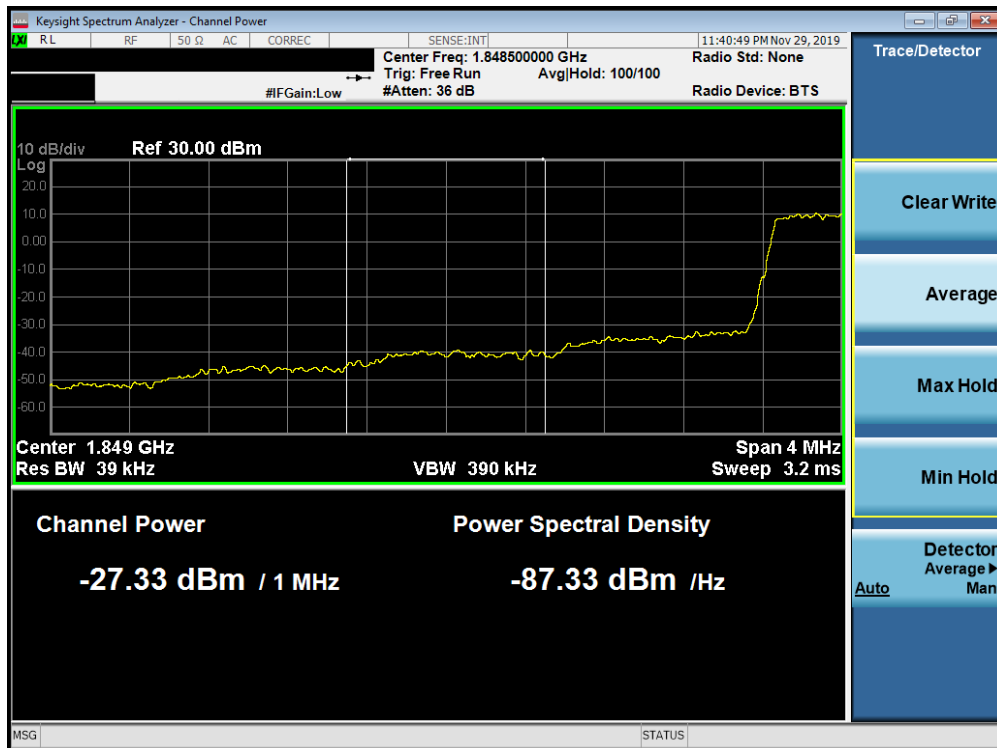


Plot 7-307. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 180 of 488

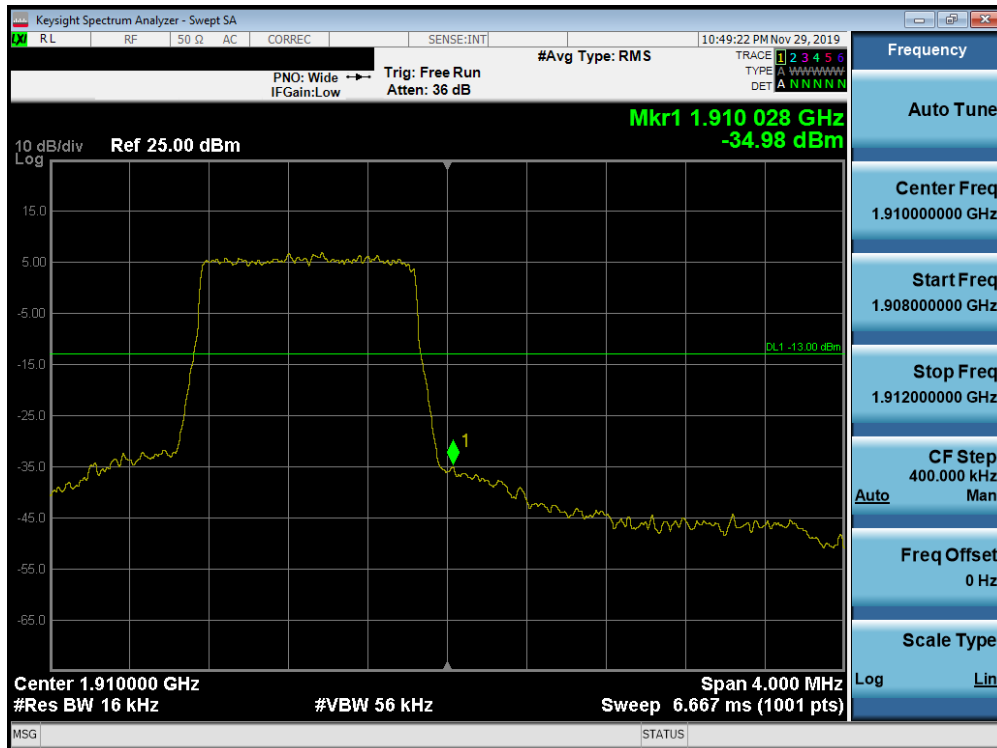


Plot 7-308. Lower Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

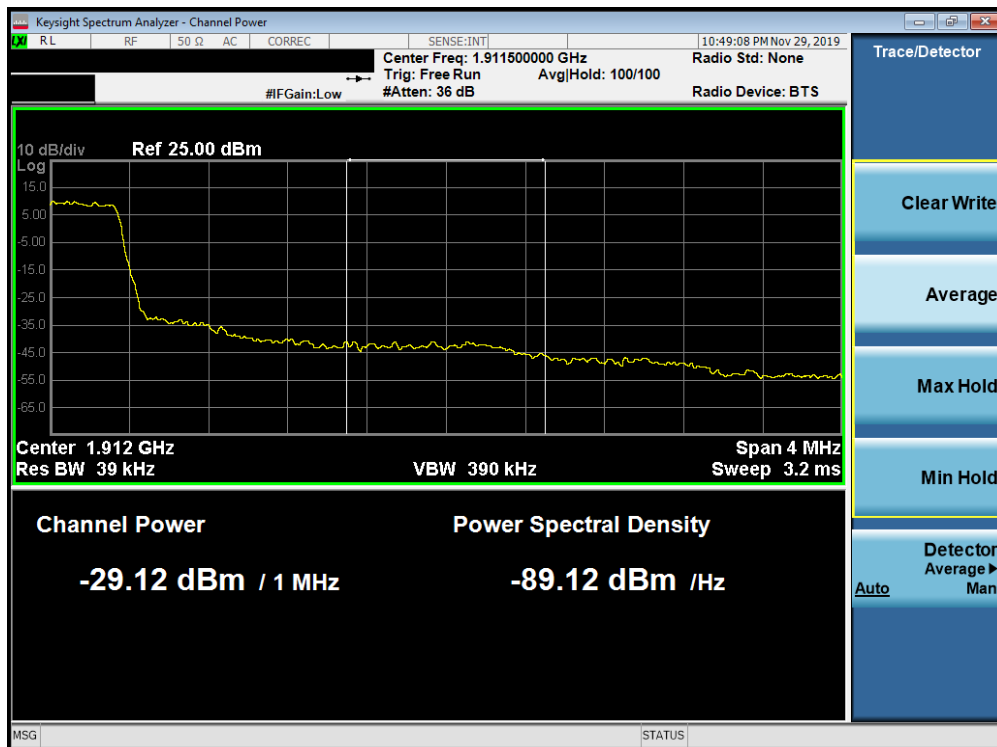


Plot 7-309. Lower Extended Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 181 of 488

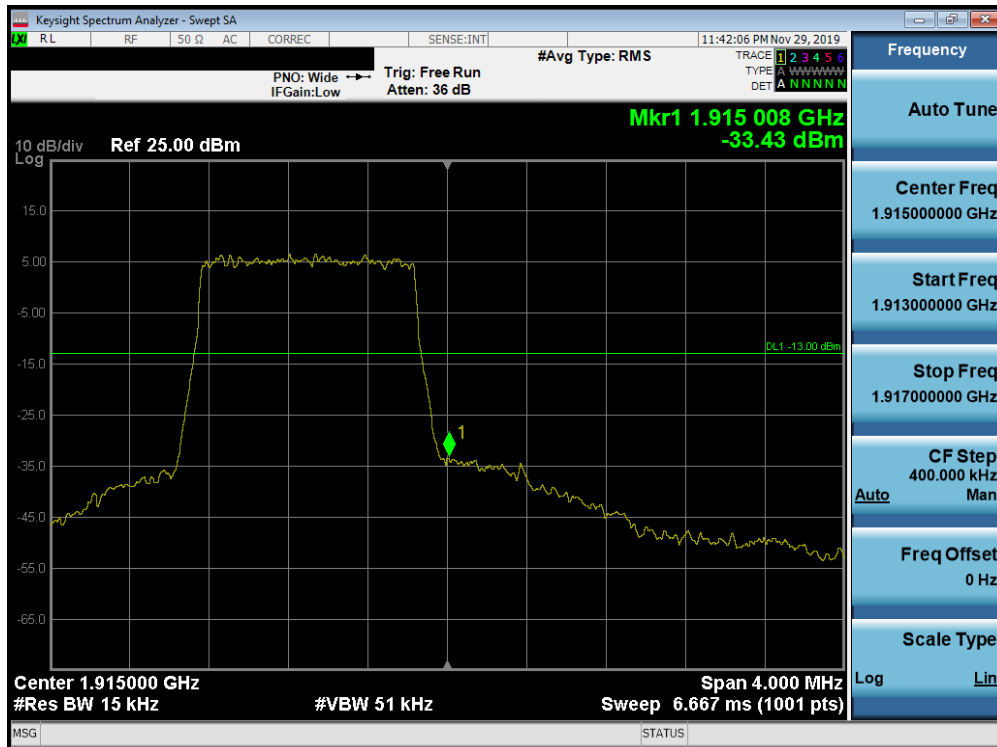


Plot 7-310. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-311. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 182 of 488

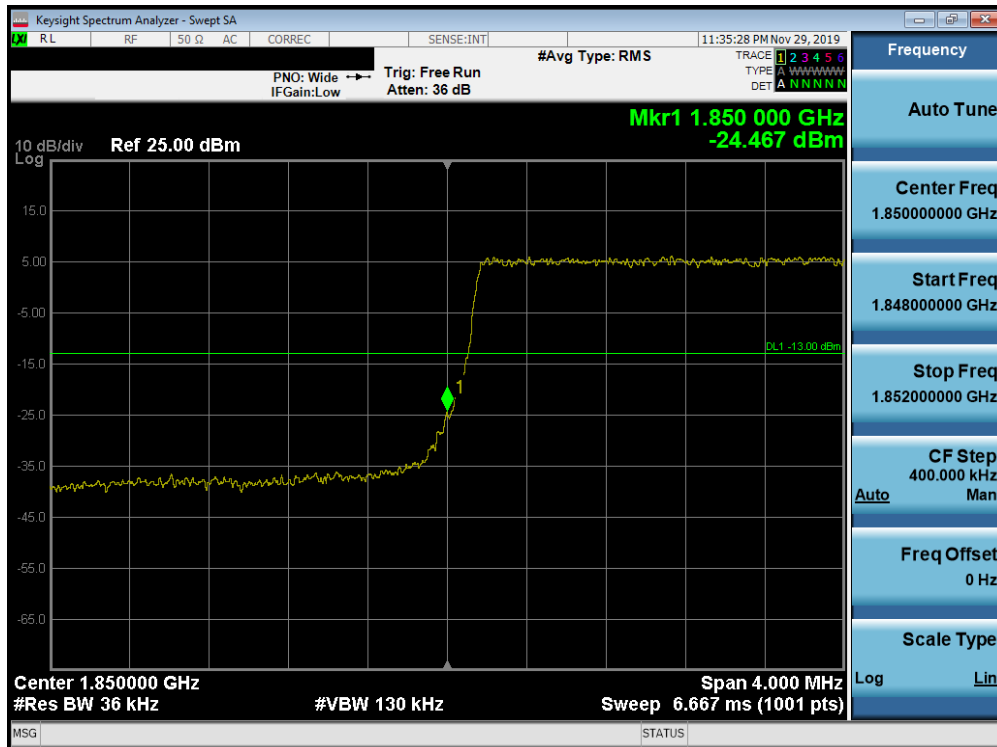


Plot 7-312. Upper Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

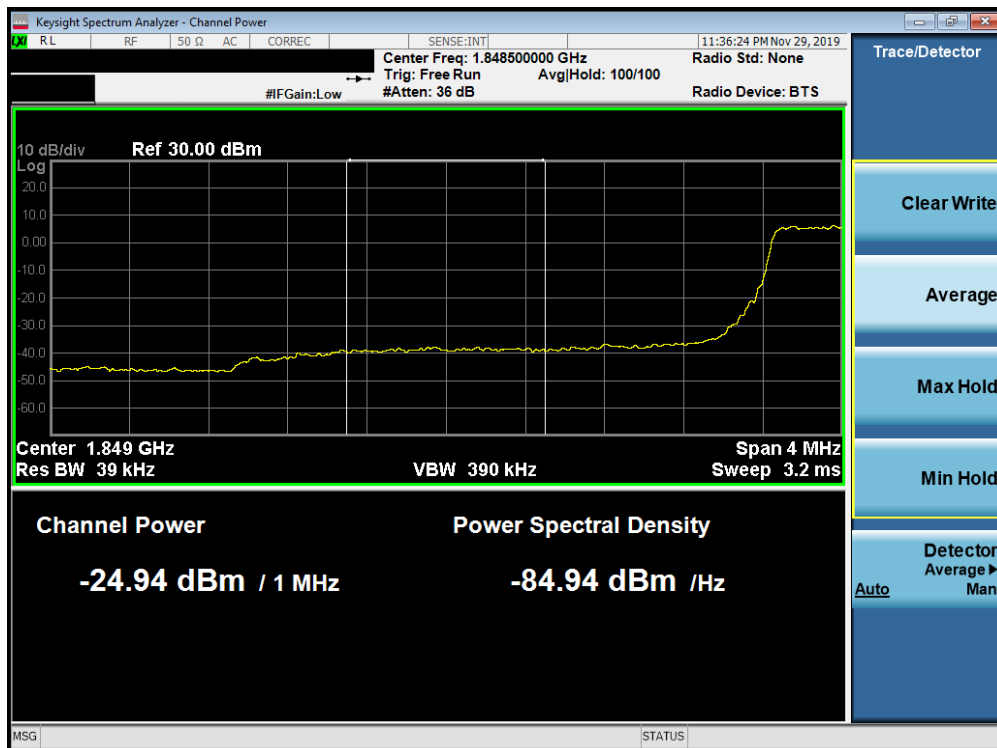


Plot 7-313. Upper Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 183 of 488

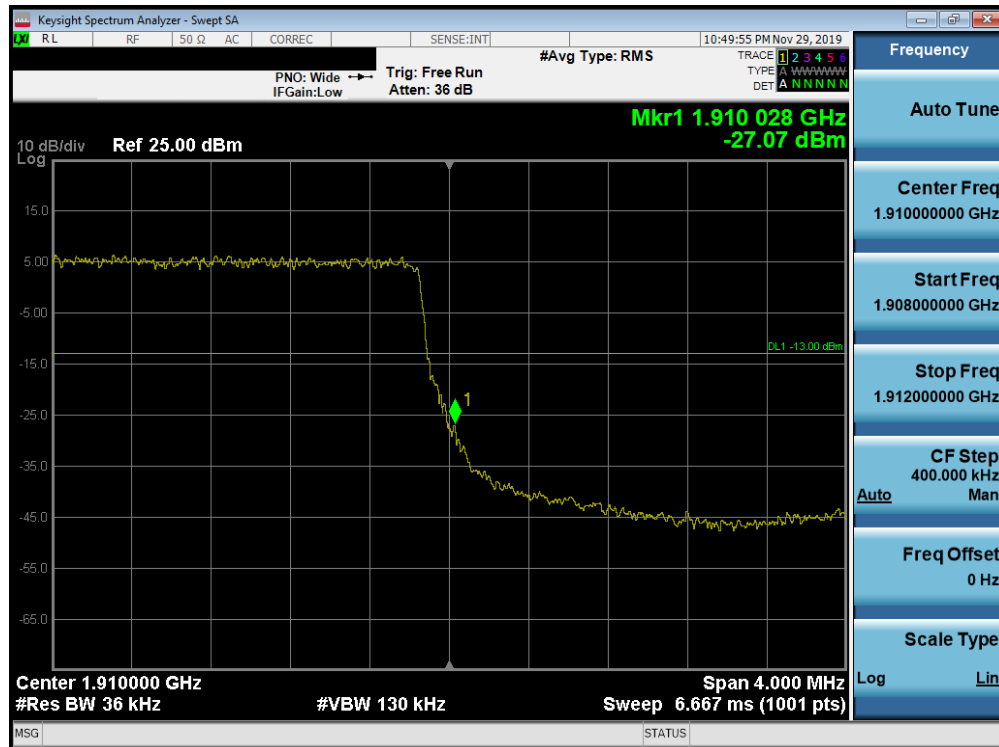


Plot 7-314. Lower Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

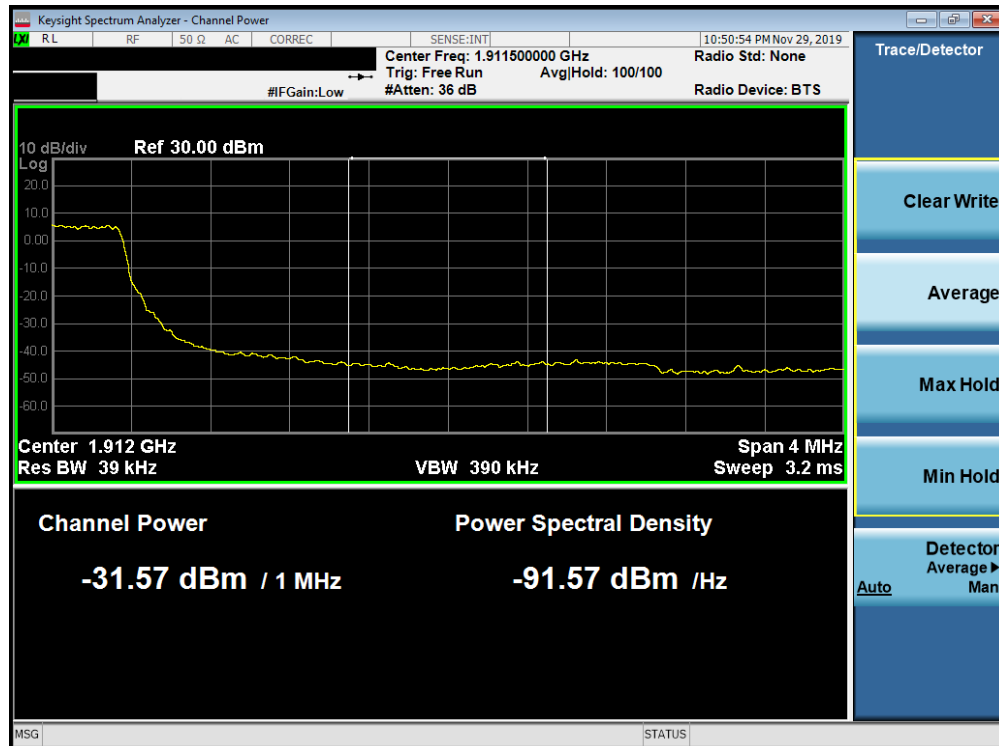


Plot 7-315. Lower Extended Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 184 of 488

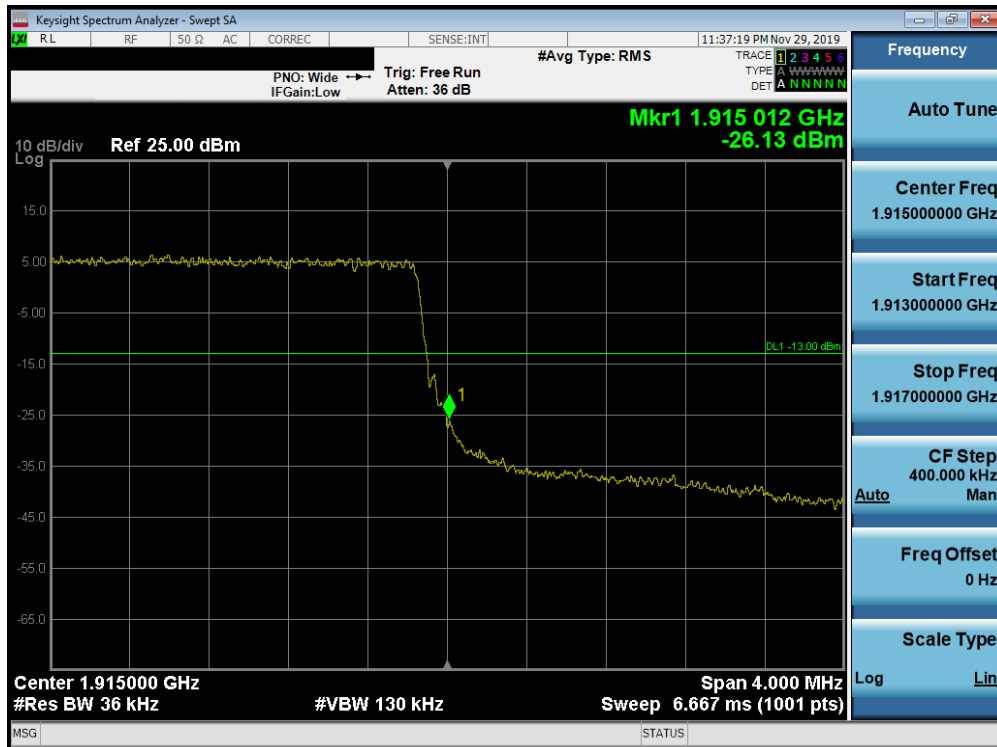


Plot 7-316. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

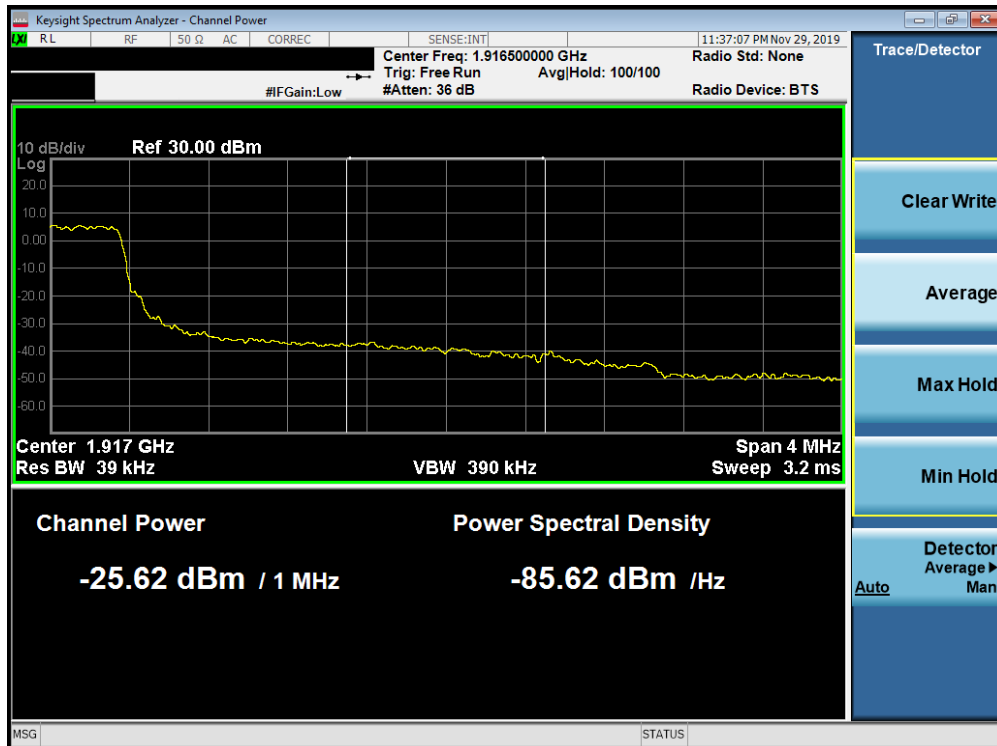


Plot 7-317. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 185 of 488

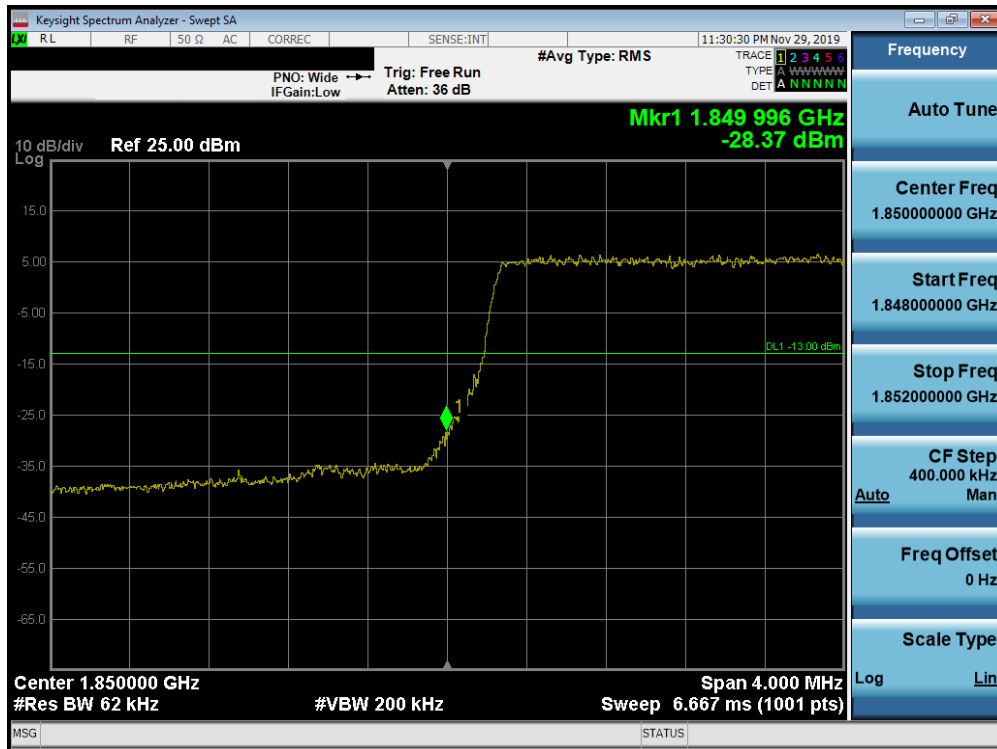


Plot 7-318. Upper Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

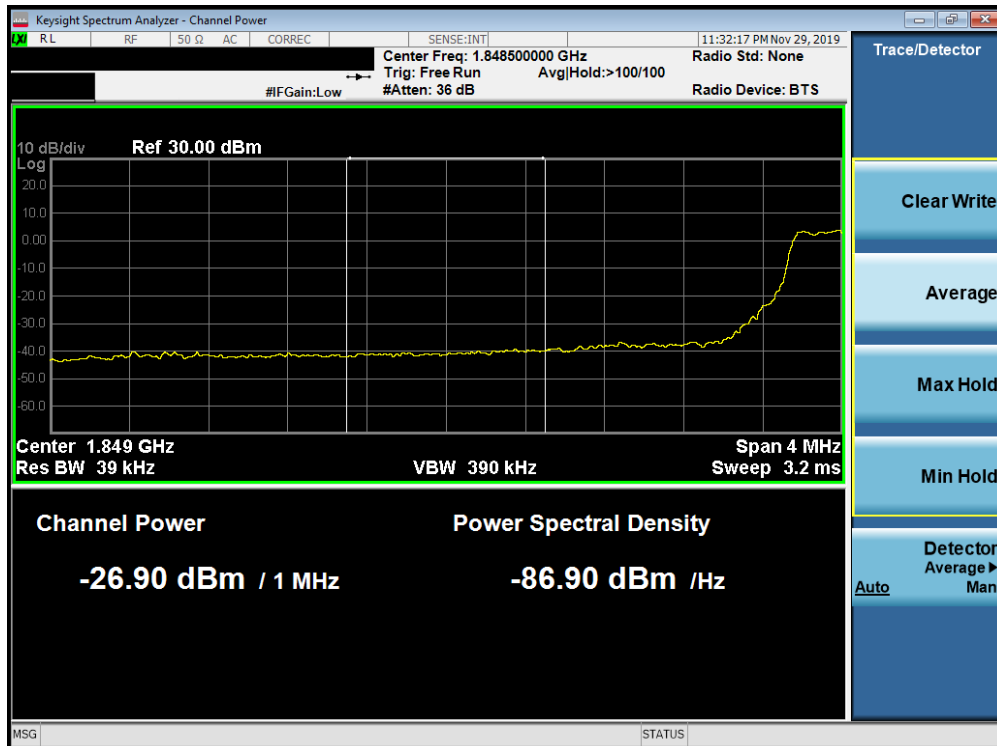


Plot 7-319. Upper Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 186 of 488



Plot 7-320. Lower Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

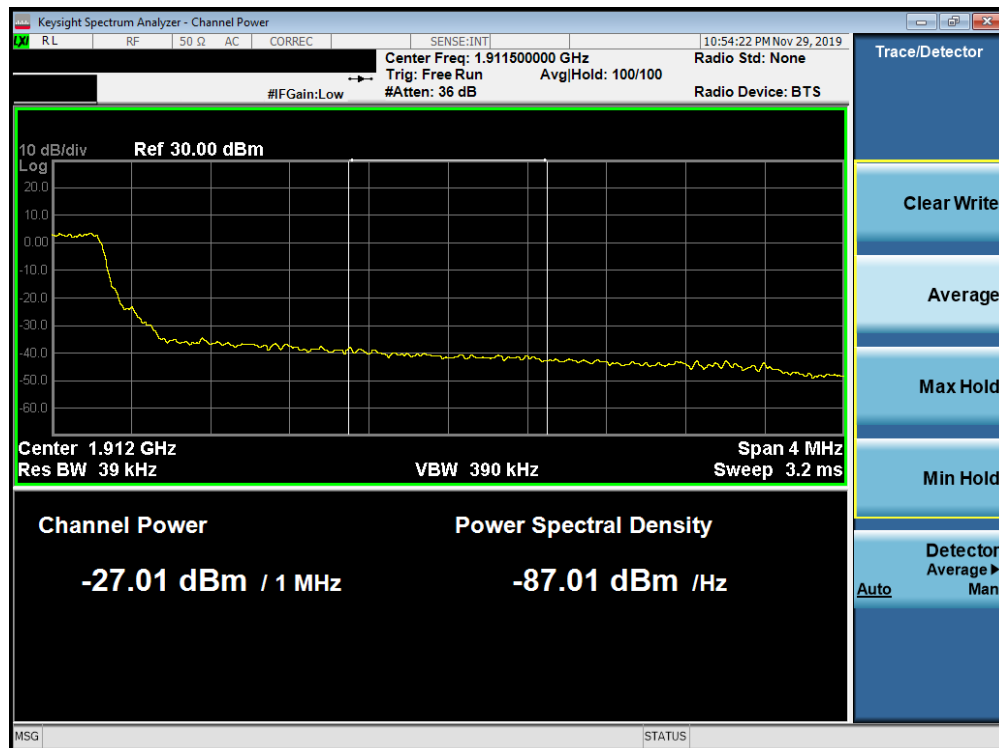


Plot 7-321. Lower Extended Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 187 of 488

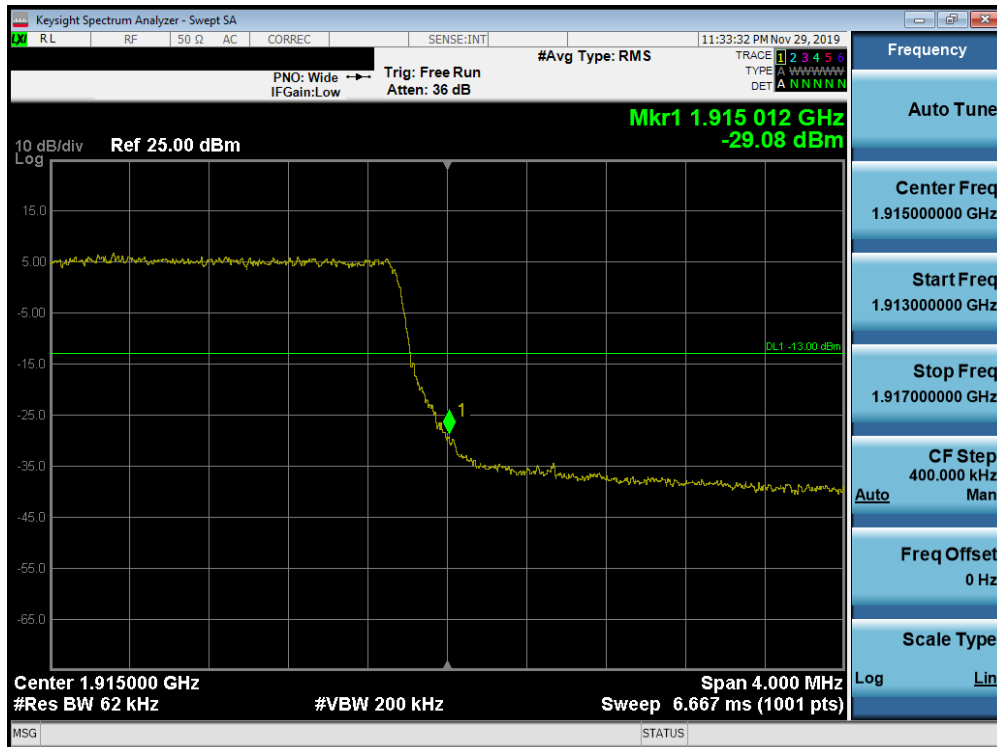


Plot 7-322. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

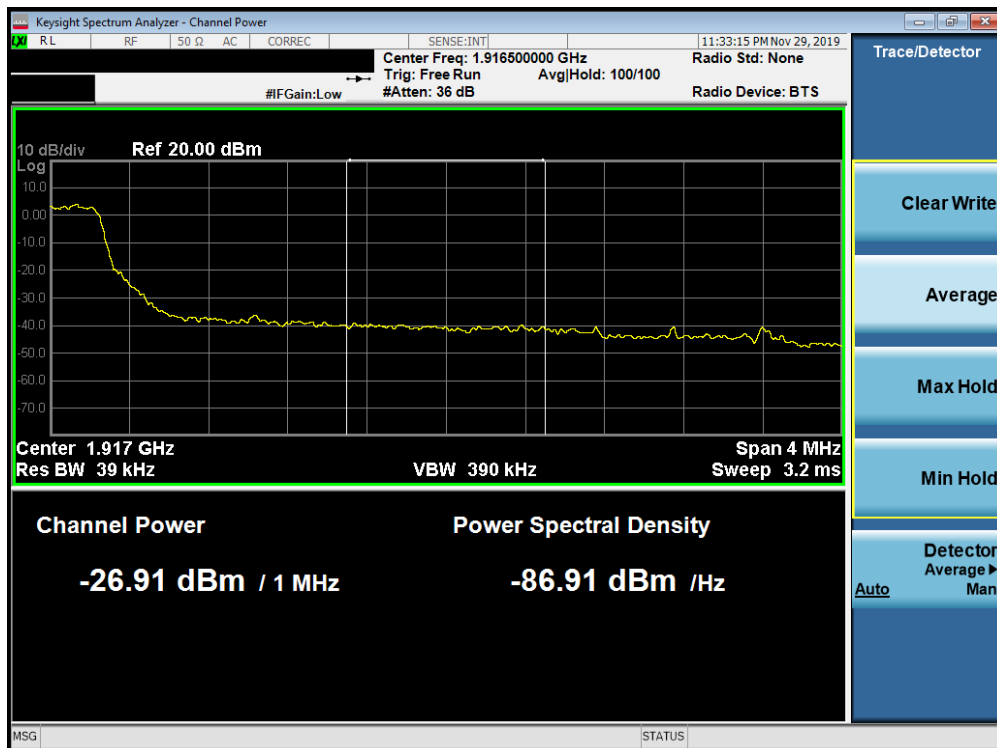


Plot 7-323. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 188 of 488

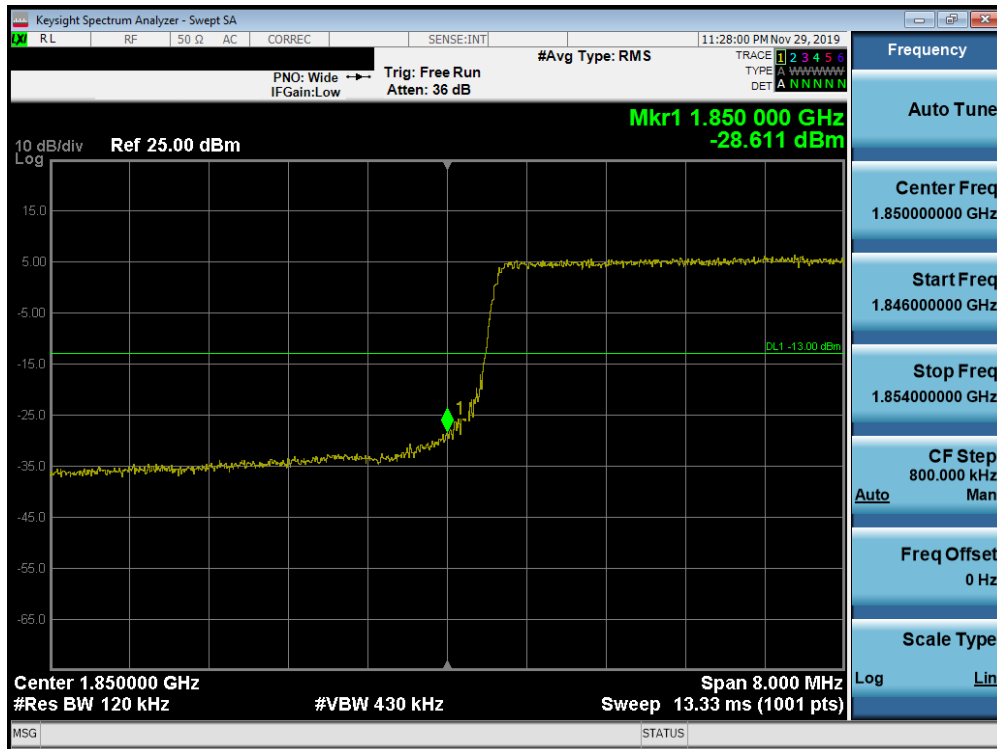


Plot 7-324. Upper Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

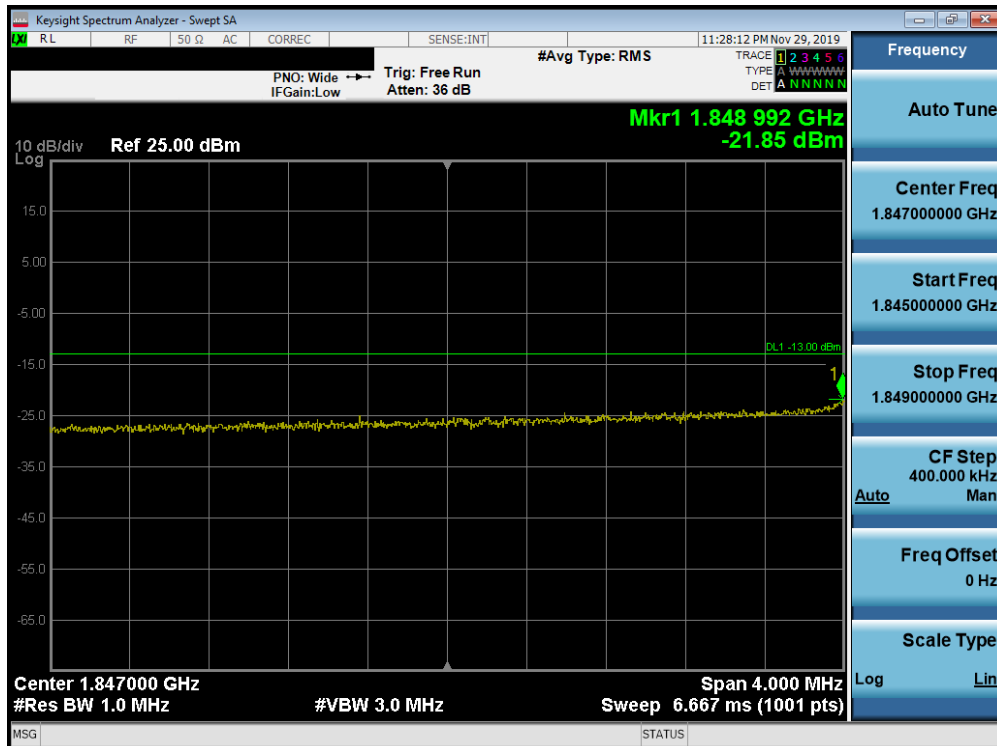


Plot 7-325. Upper Extended Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 189 of 488

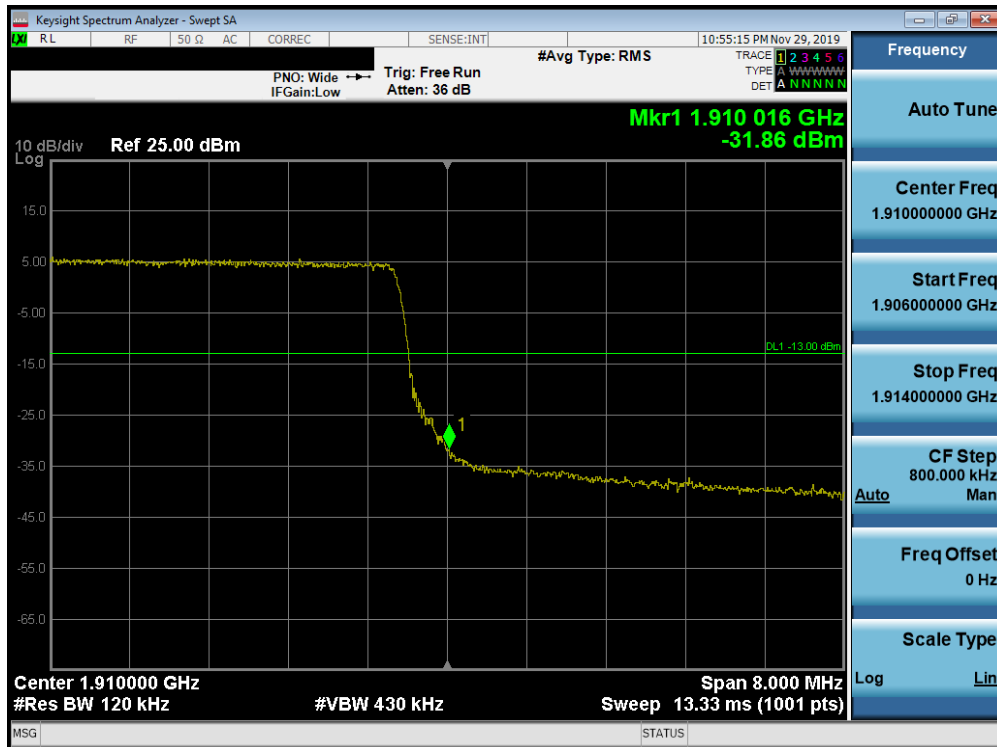


Plot 7-326. Lower Band Edge Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)

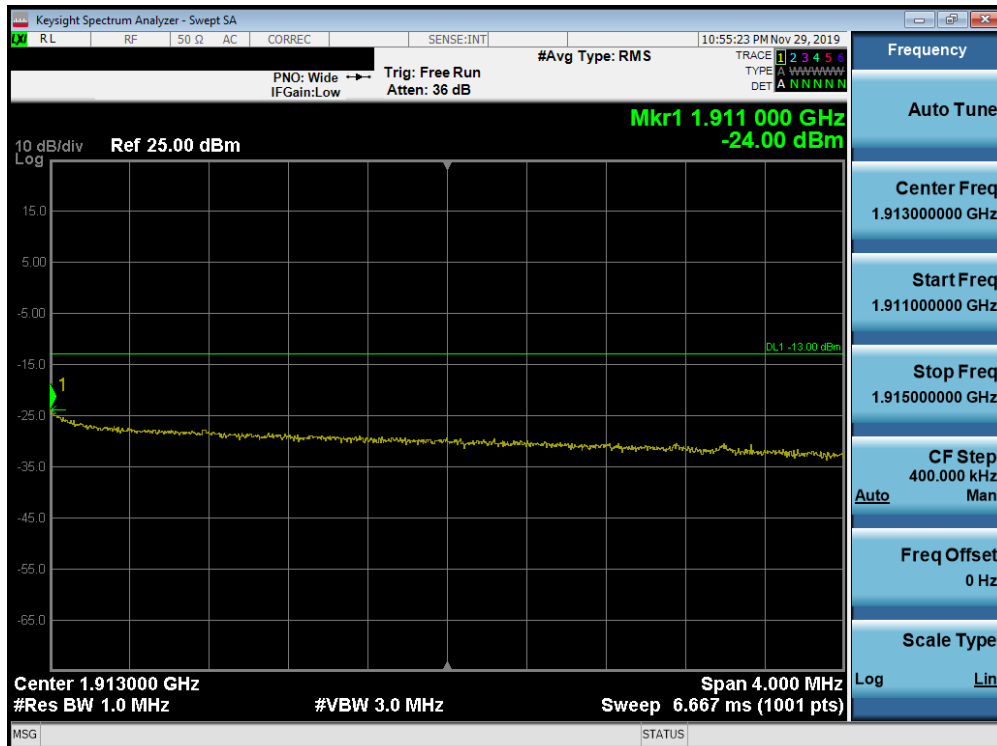


Plot 7-327. Lower Extended Band Edge Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 190 of 488

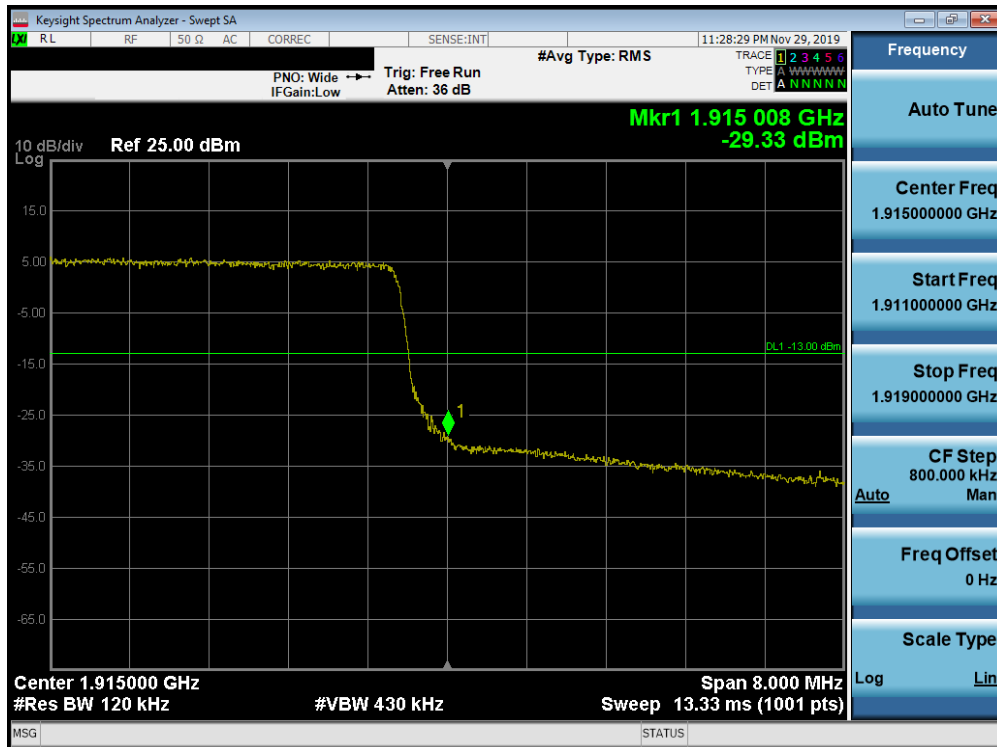


Plot 7-328. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

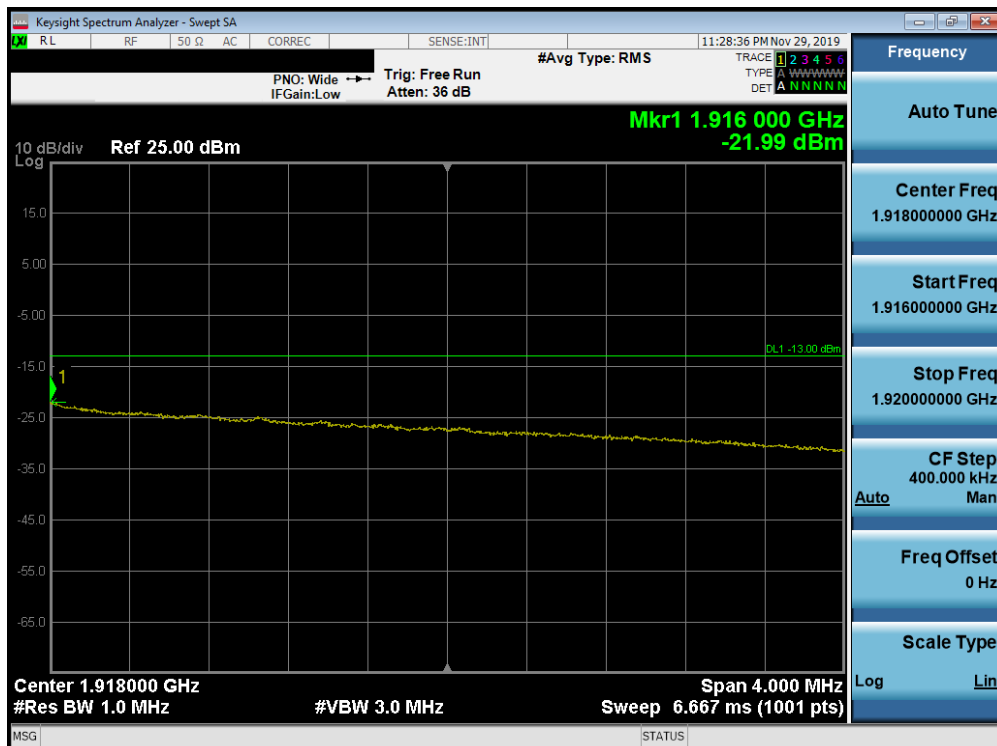


Plot 7-329. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 191 of 488

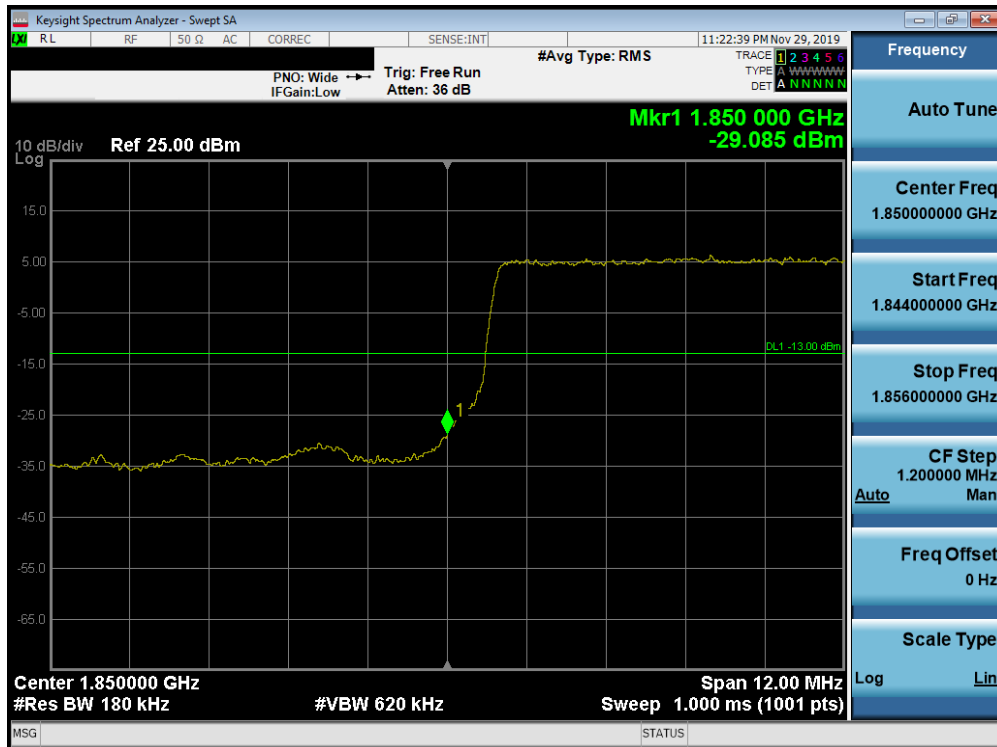


Plot 7-330. Upper Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

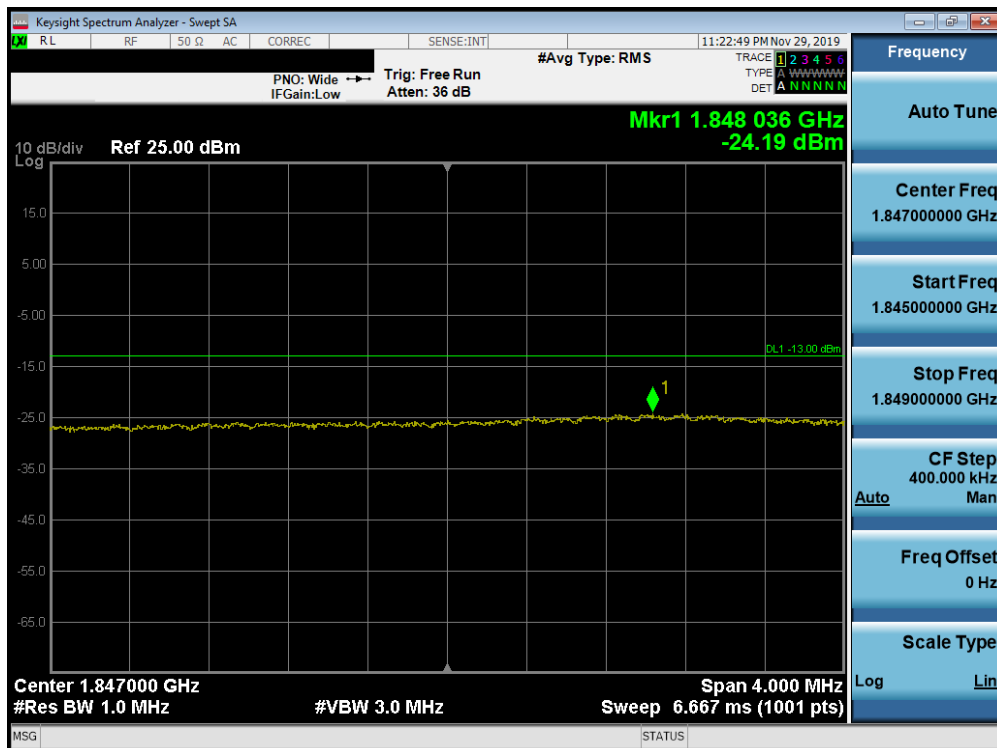


Plot 7-331. Upper Extended Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 192 of 488

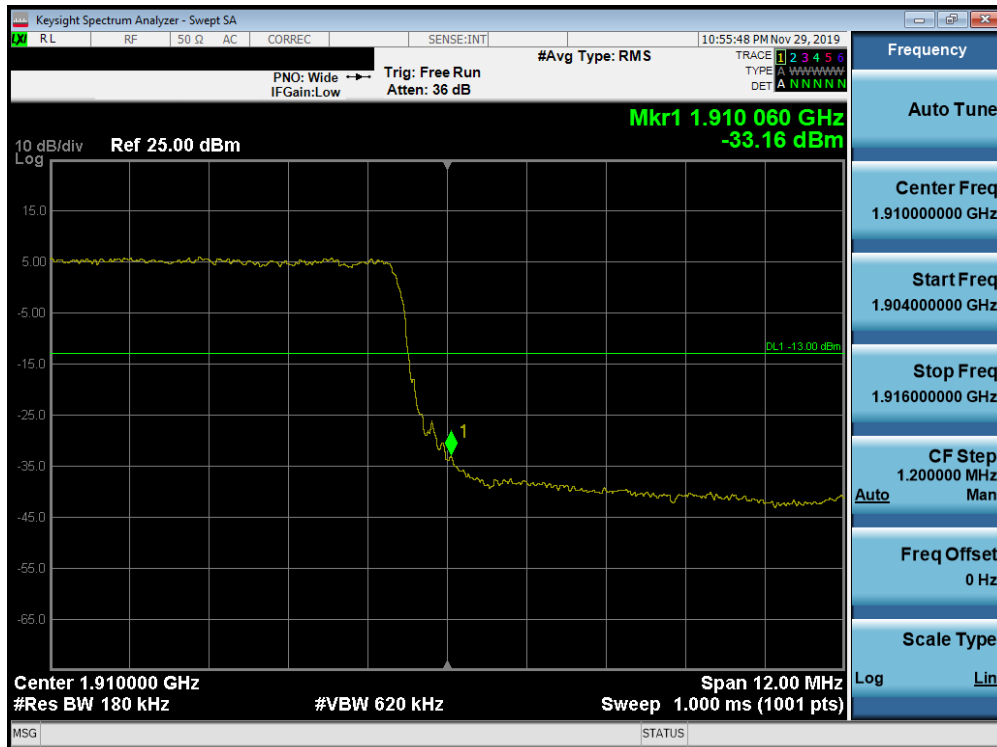


Plot 7-332. Lower Band Edge Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)

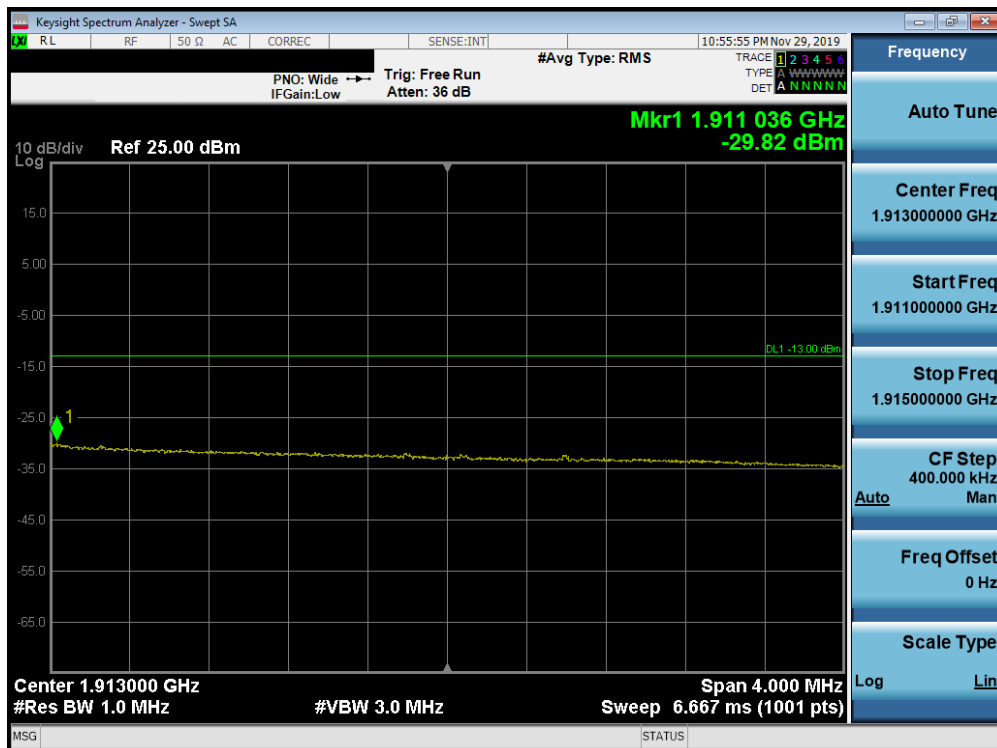


Plot 7-333. Lower Extended Band Edge Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 193 of 488

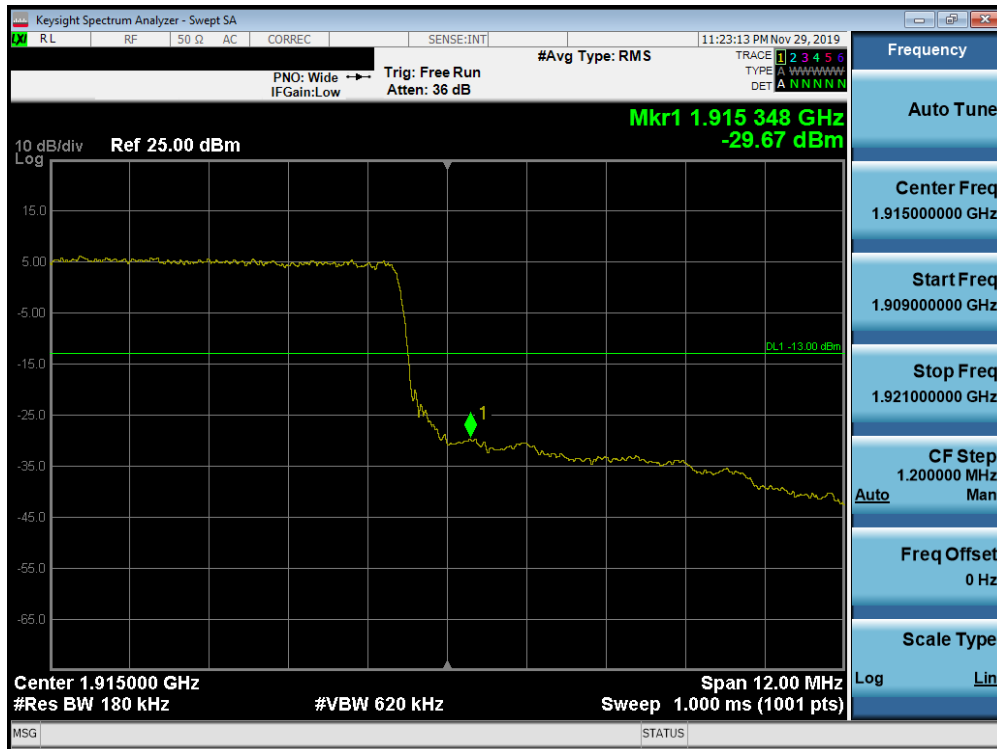


Plot 7-334. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-335. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 194 of 488

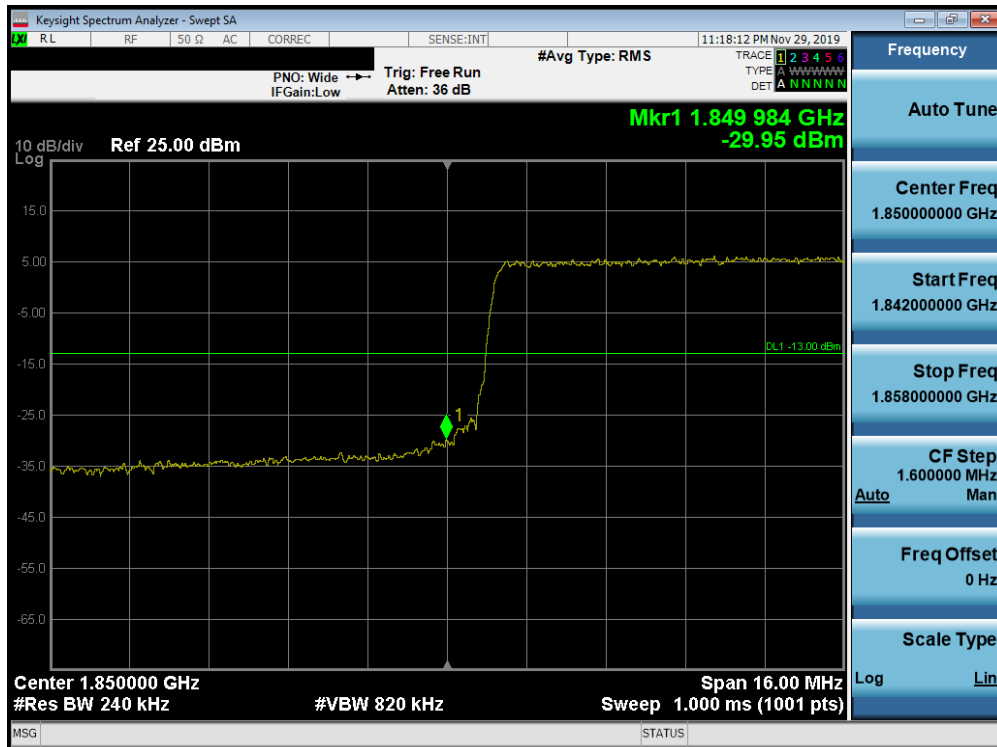


Plot 7-336. Upper Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

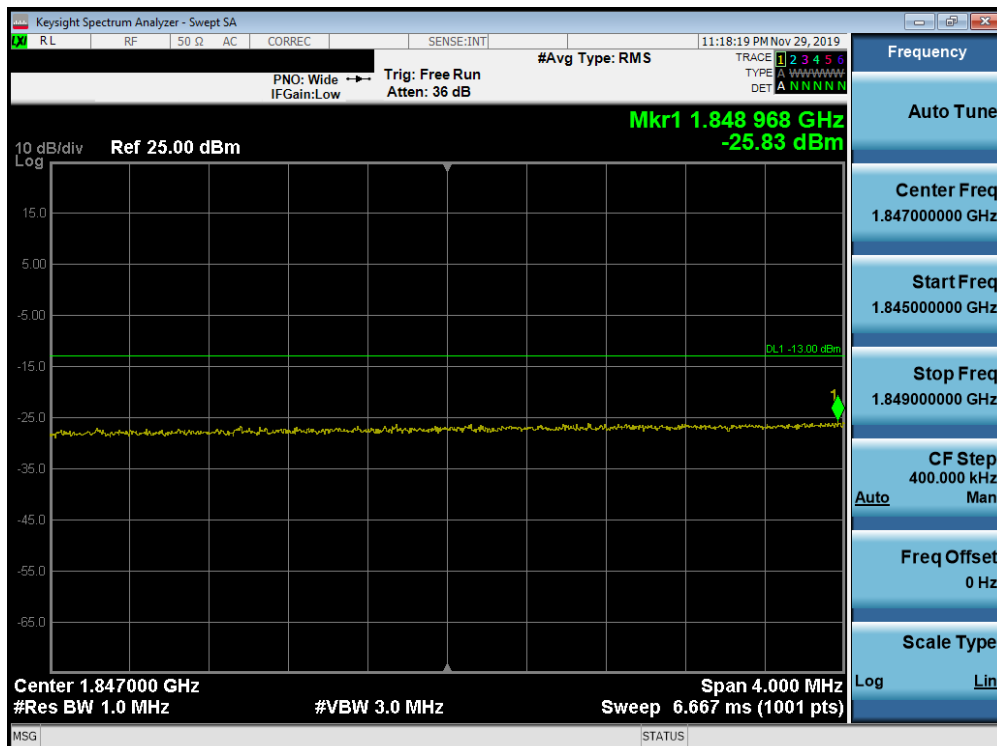


Plot 7-337. Upper Extended Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 195 of 488

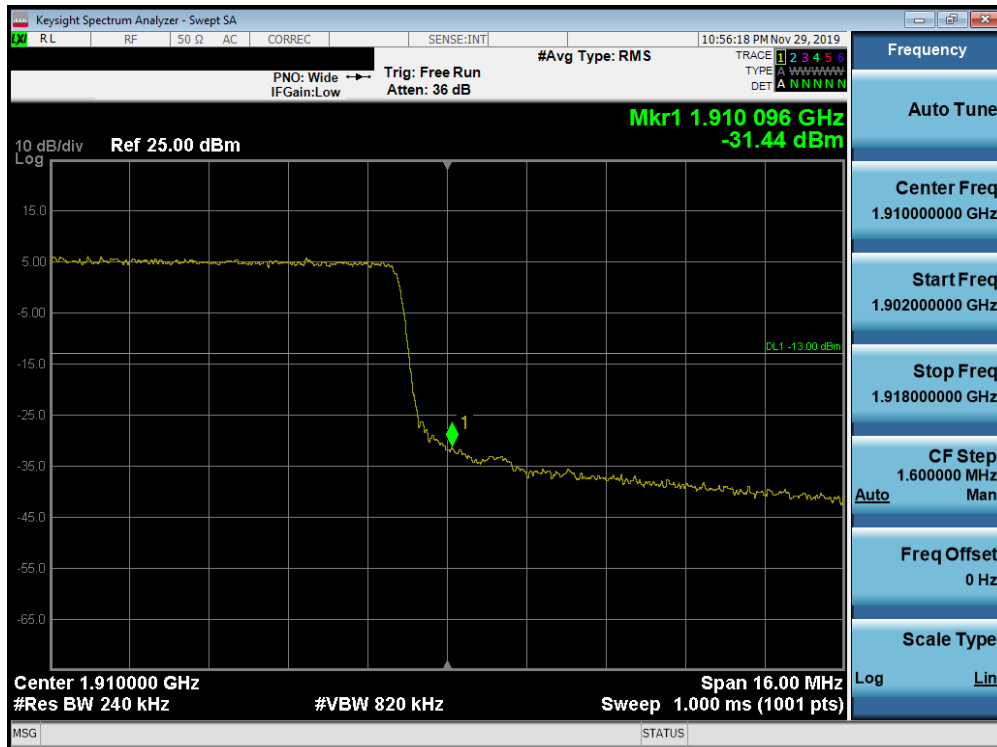


Plot 7-338. Lower Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

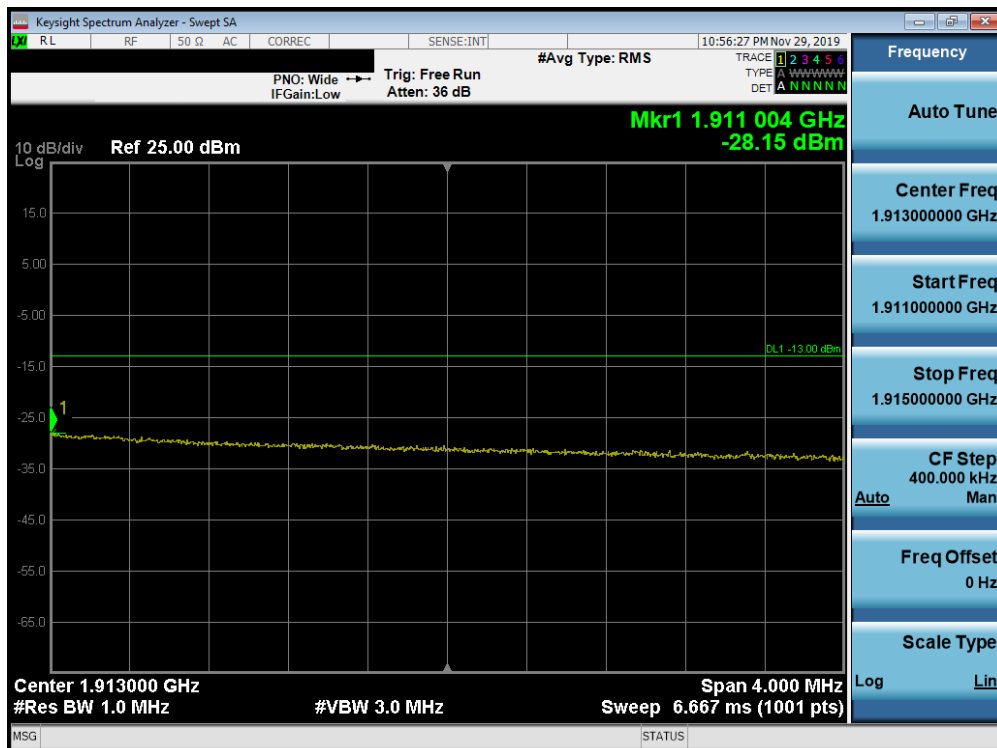


Plot 7-339. Lower Extended Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 196 of 488

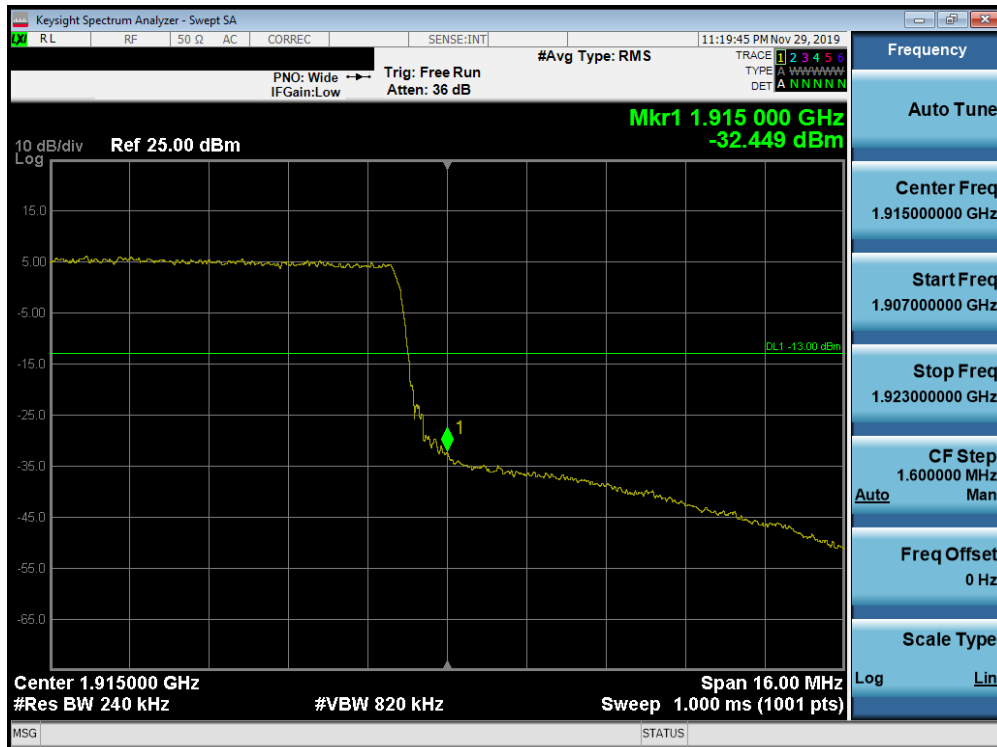


Plot 7-340. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

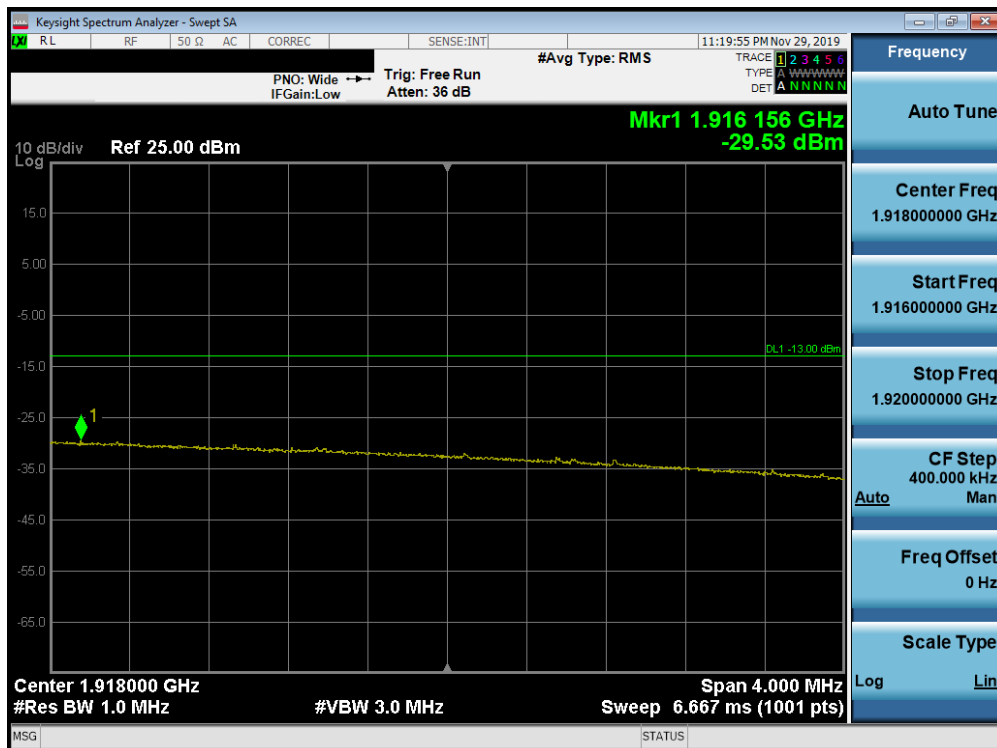


Plot 7-341. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 197 of 488



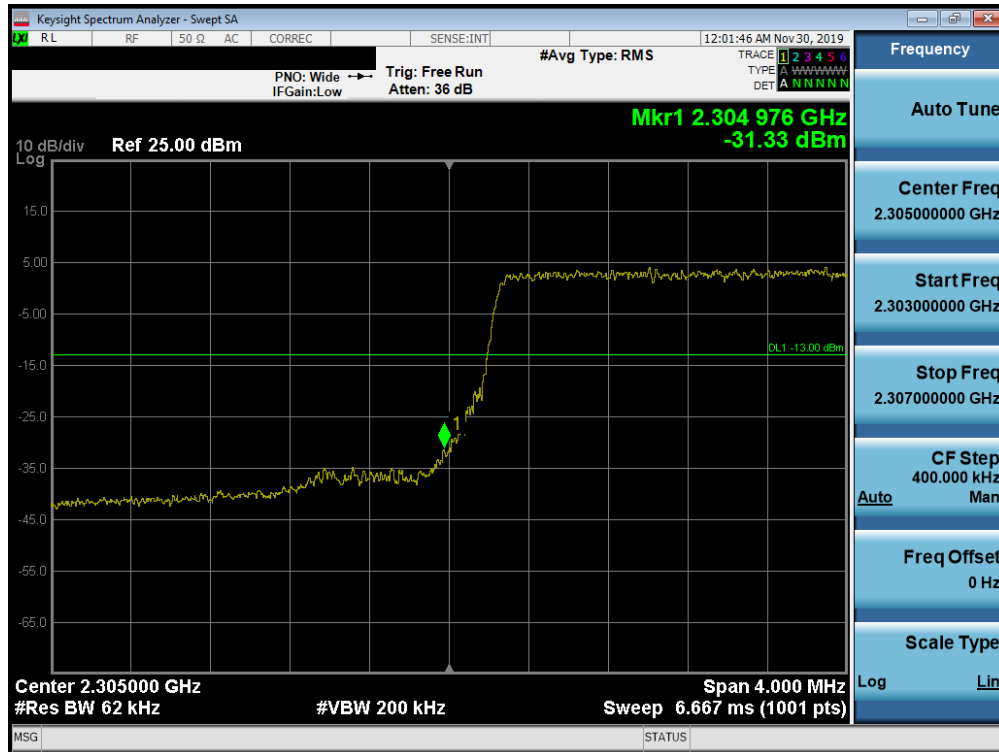
Plot 7-342. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-343. Upper Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 198 of 488

Band 30



Plot 7-344. Lower Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-345. Lower Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 199 of 488

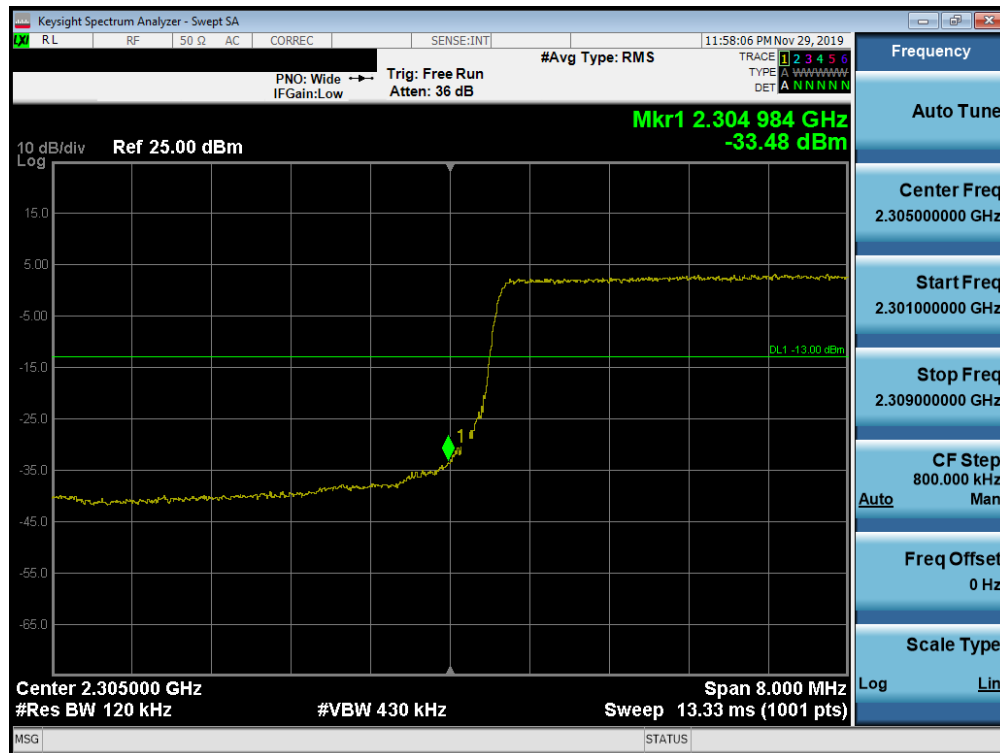


Plot 7-346. Upper Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

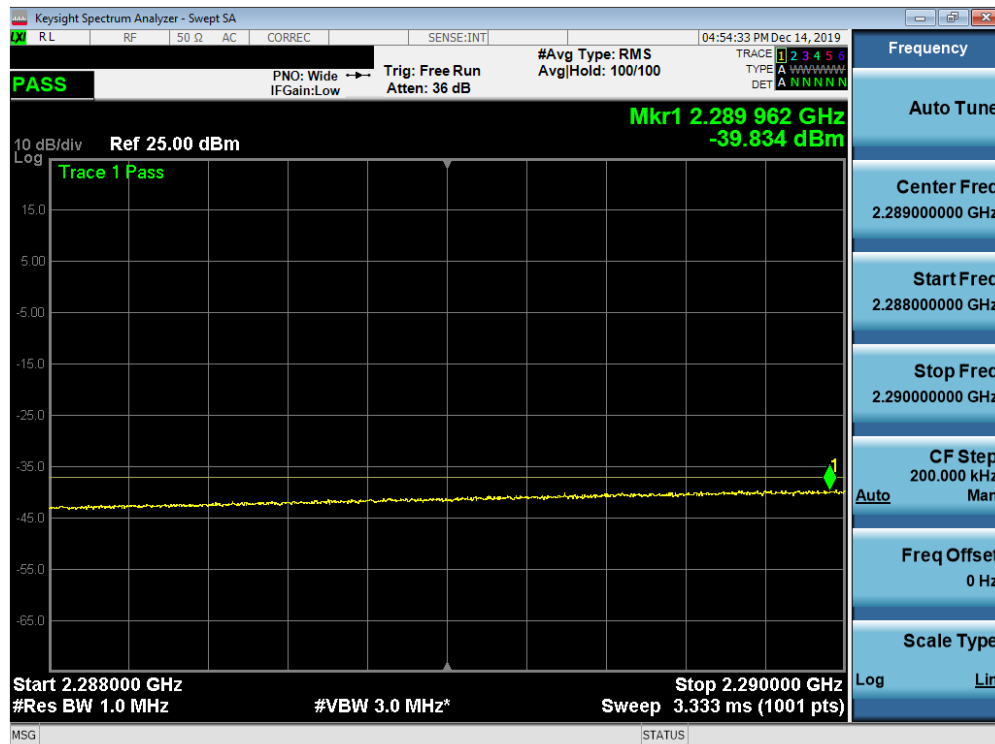


Plot 7-347. Upper Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 200 of 488

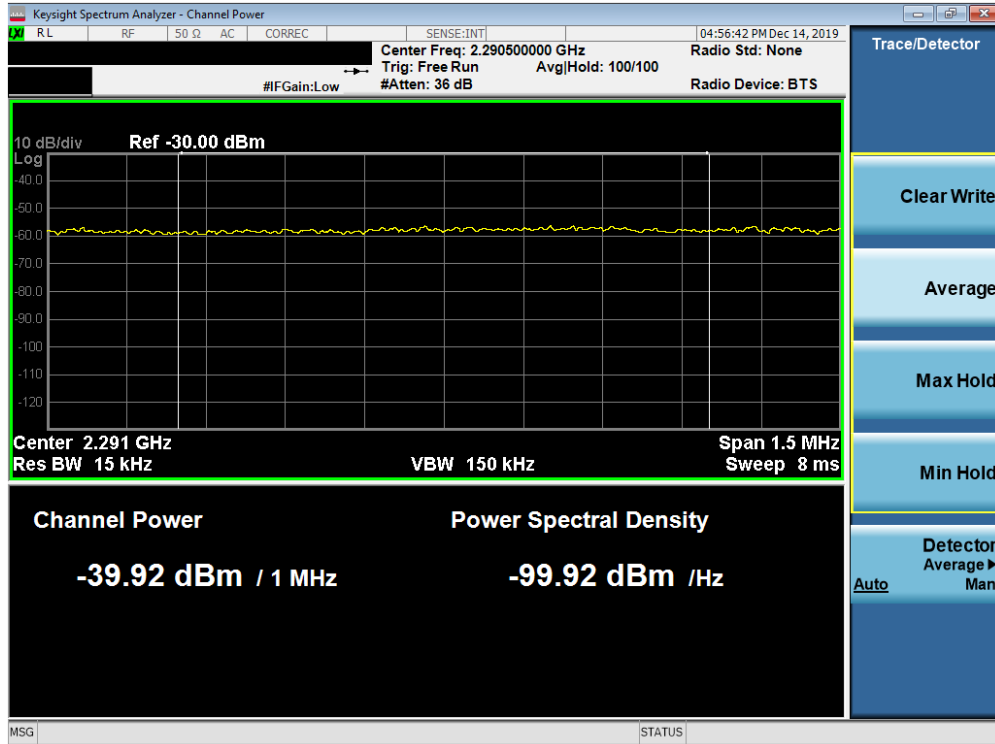


Plot 7-348. Lower Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

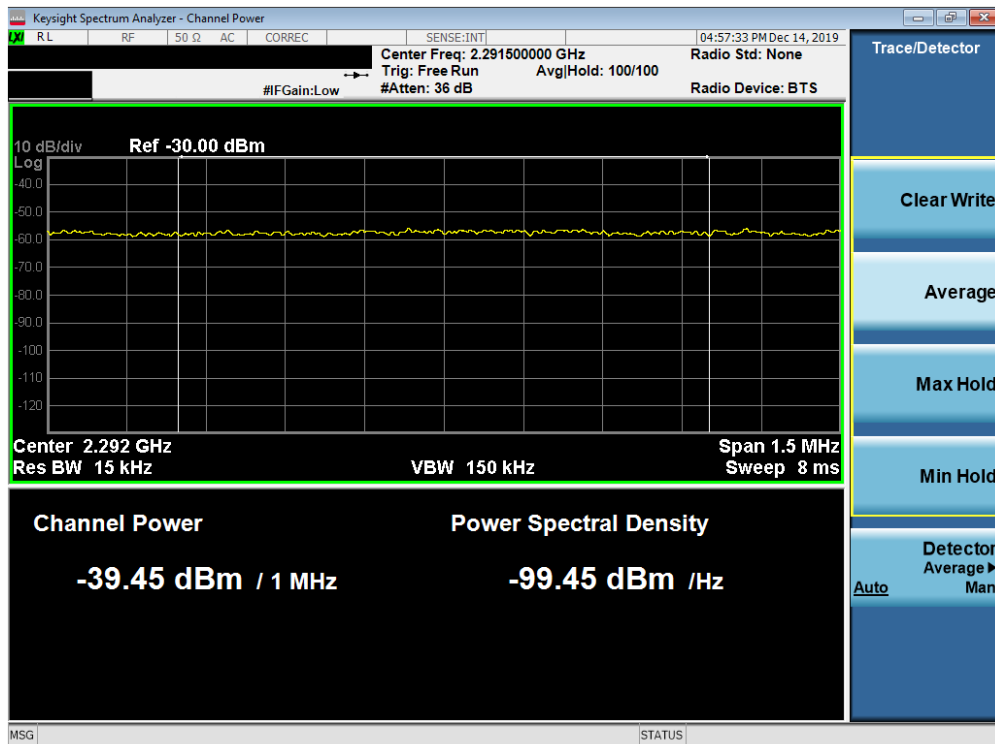


Plot 7-349. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset	Page 201 of 488	

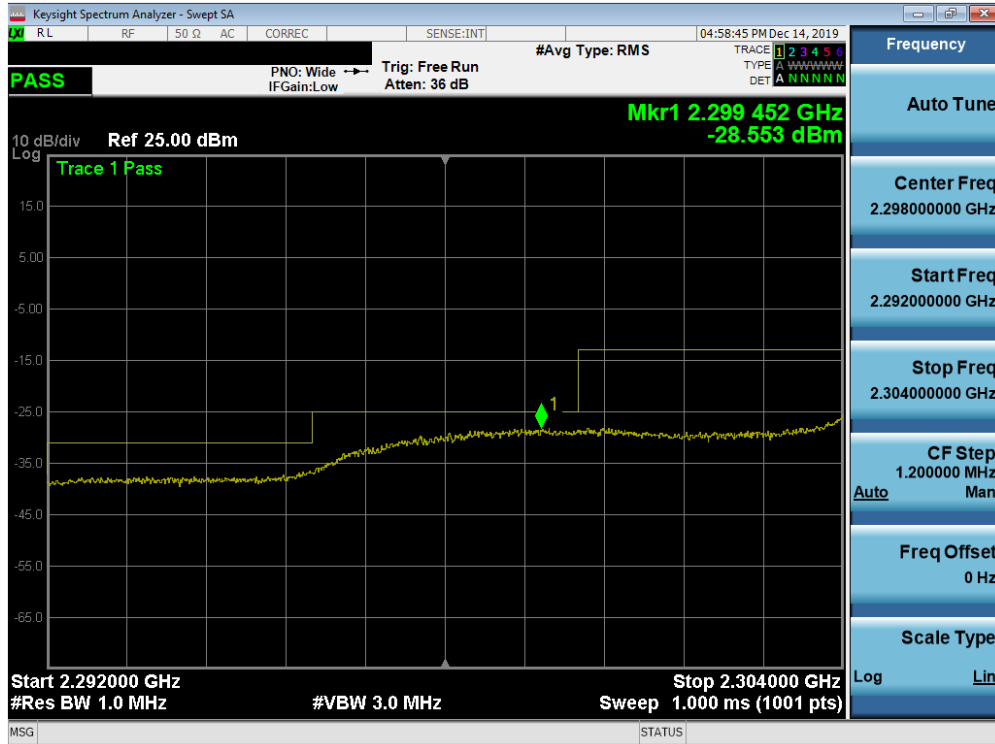


Plot 7-350. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

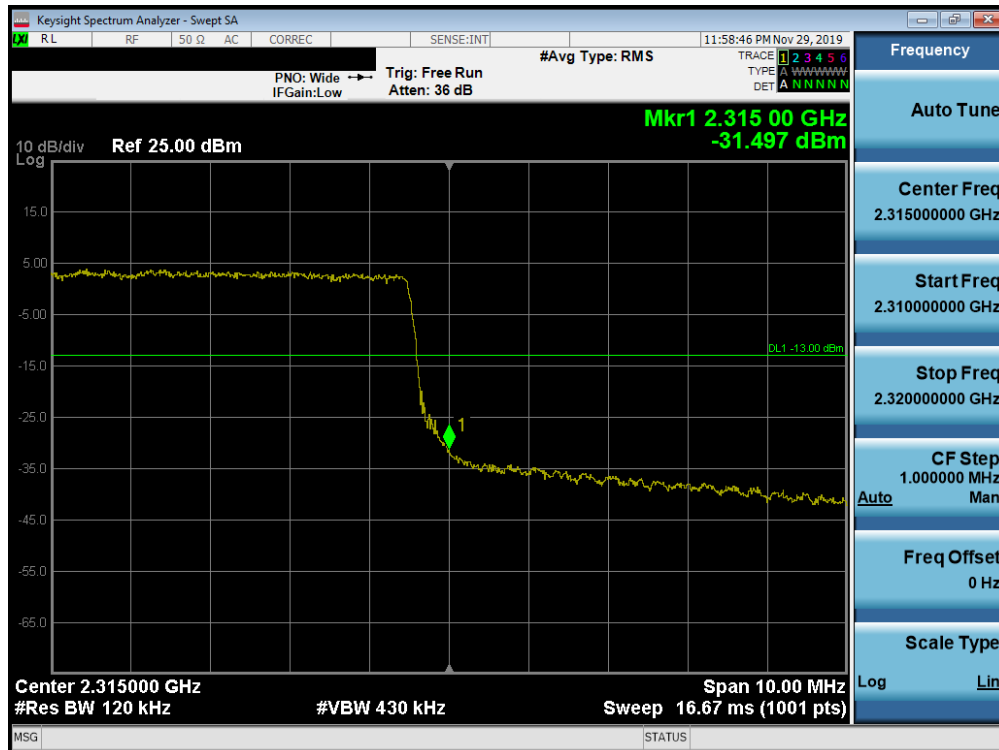


Plot 7-351. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 202 of 488



Plot 7-352. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-353. Upper Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

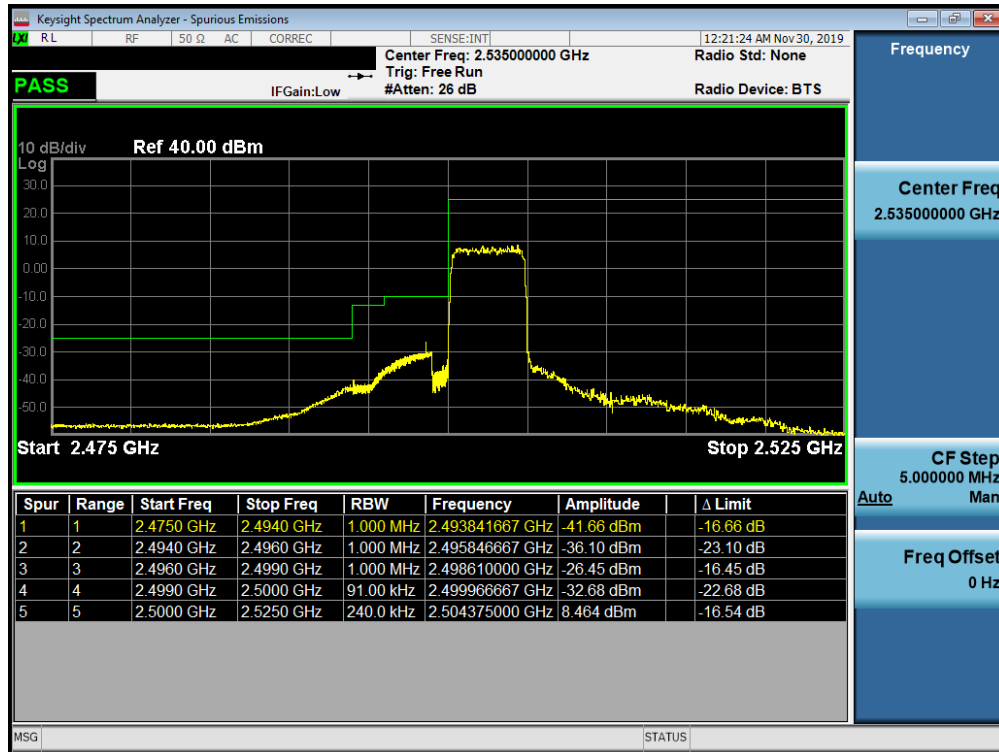
FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 203 of 488



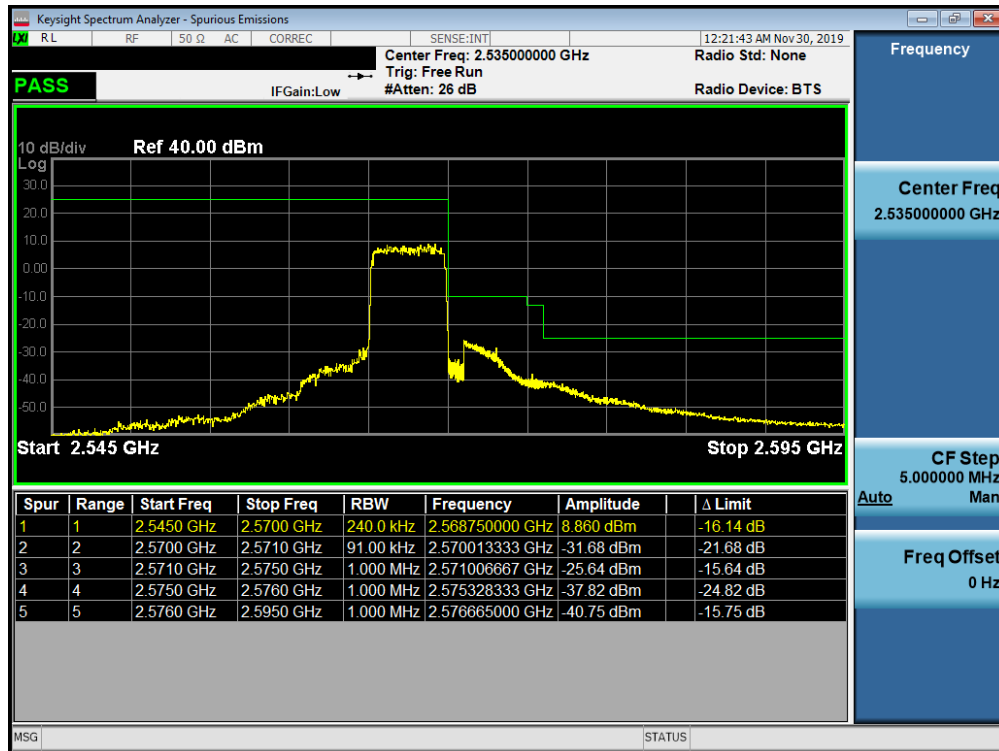
Plot 7-354. Upper Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 204 of 488

Band 7

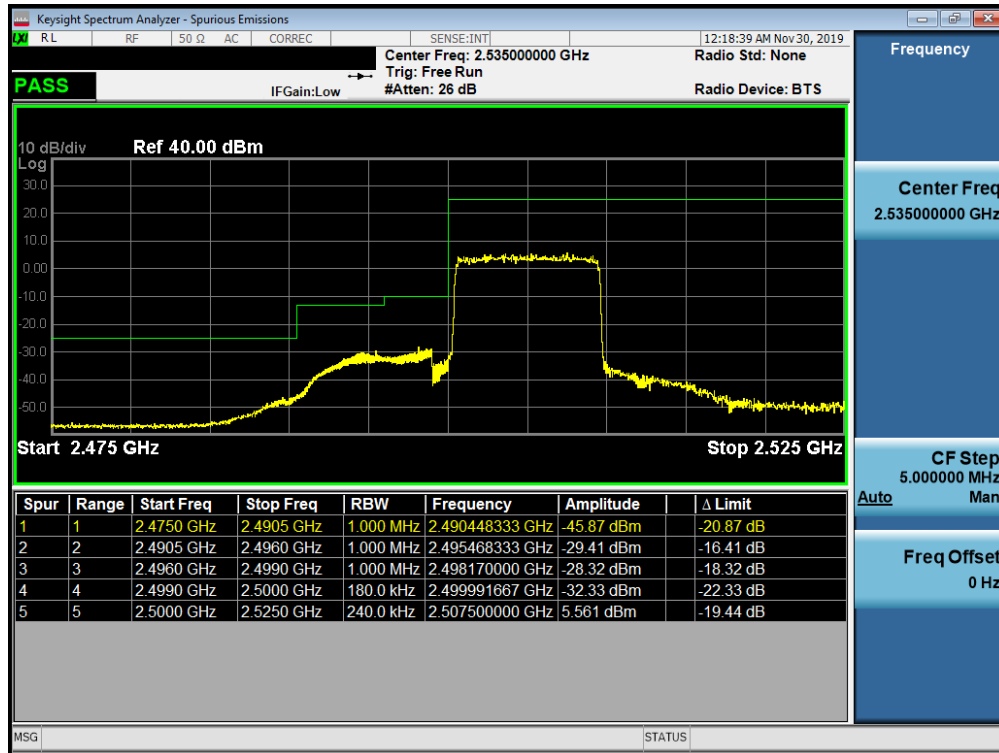


Plot 7-355. Lower ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-356. Higher ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 205 of 488

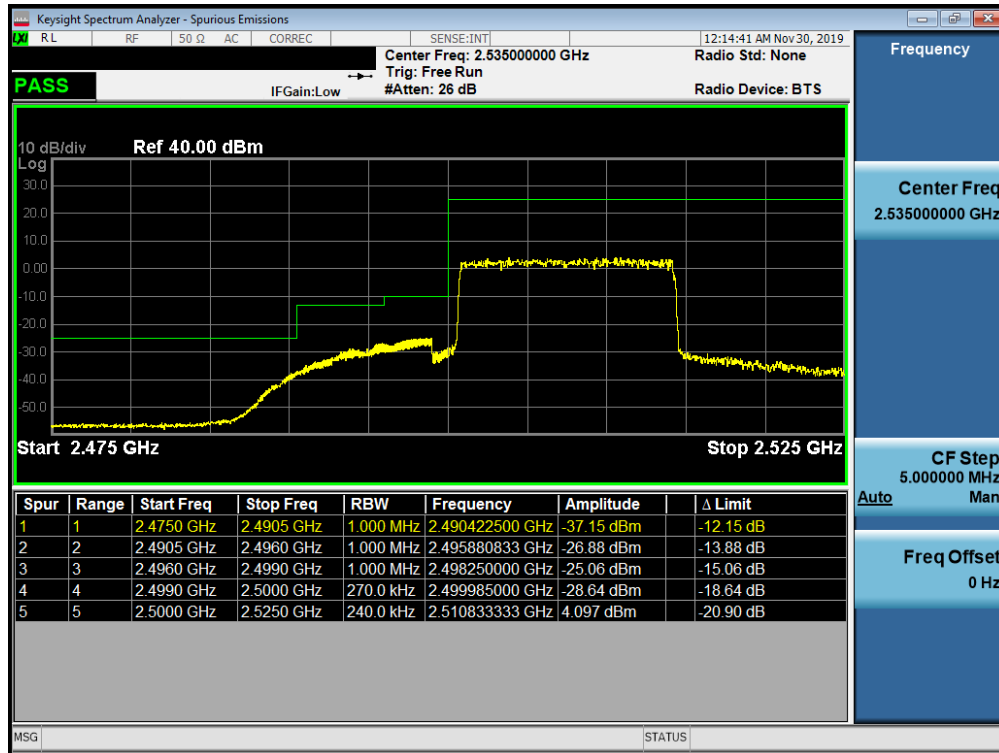


Plot 7-357. Lower ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

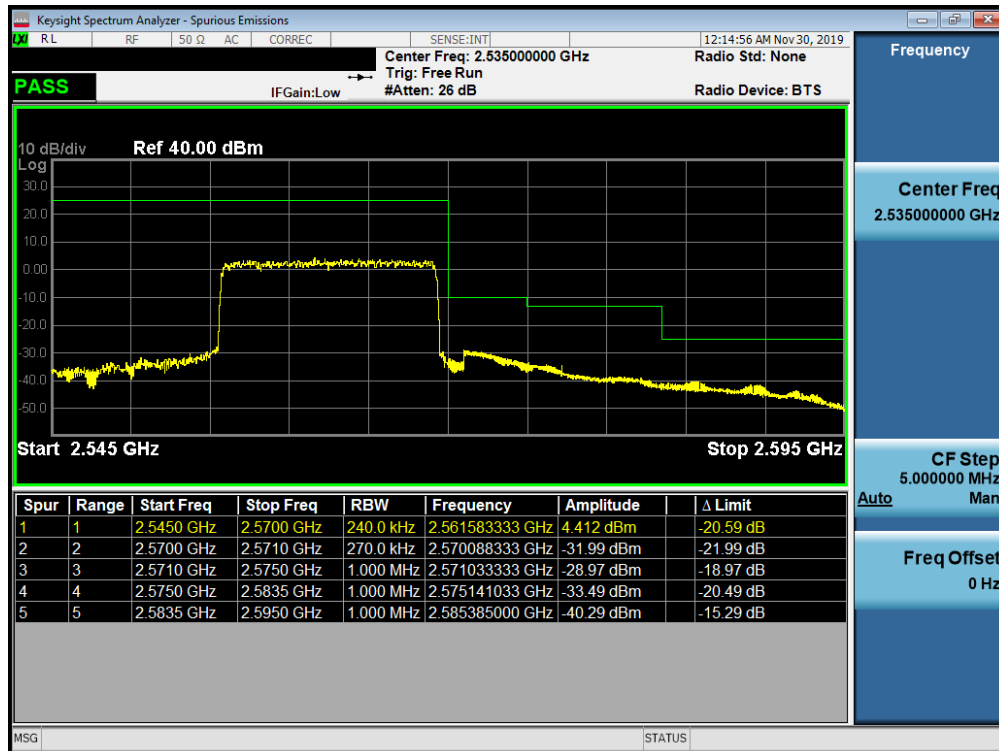


Plot 7-358. Higher ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset			Page 206 of 488

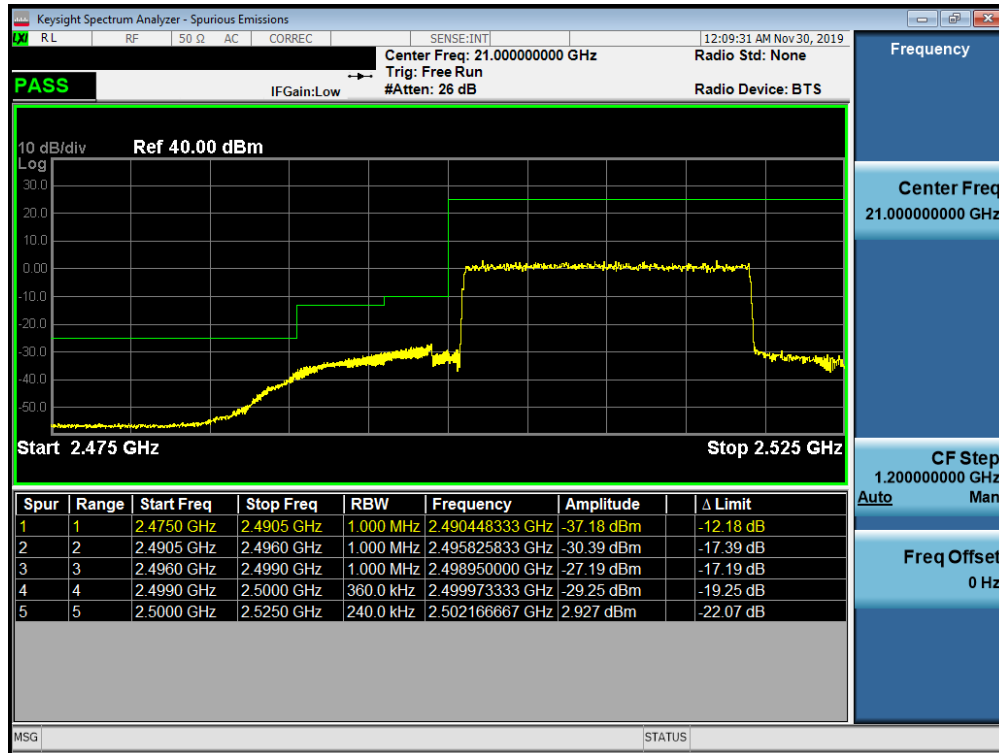


Plot 7-359. Lower ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-360. Higher ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset			Page 207 of 488



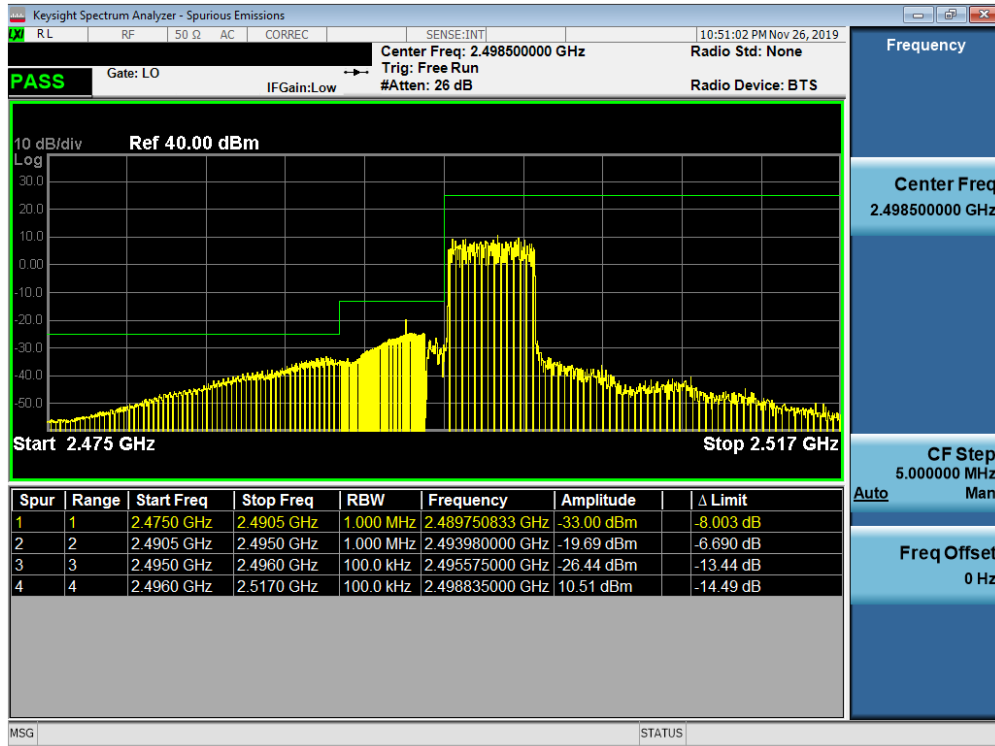
Plot 7-361. Lower ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)



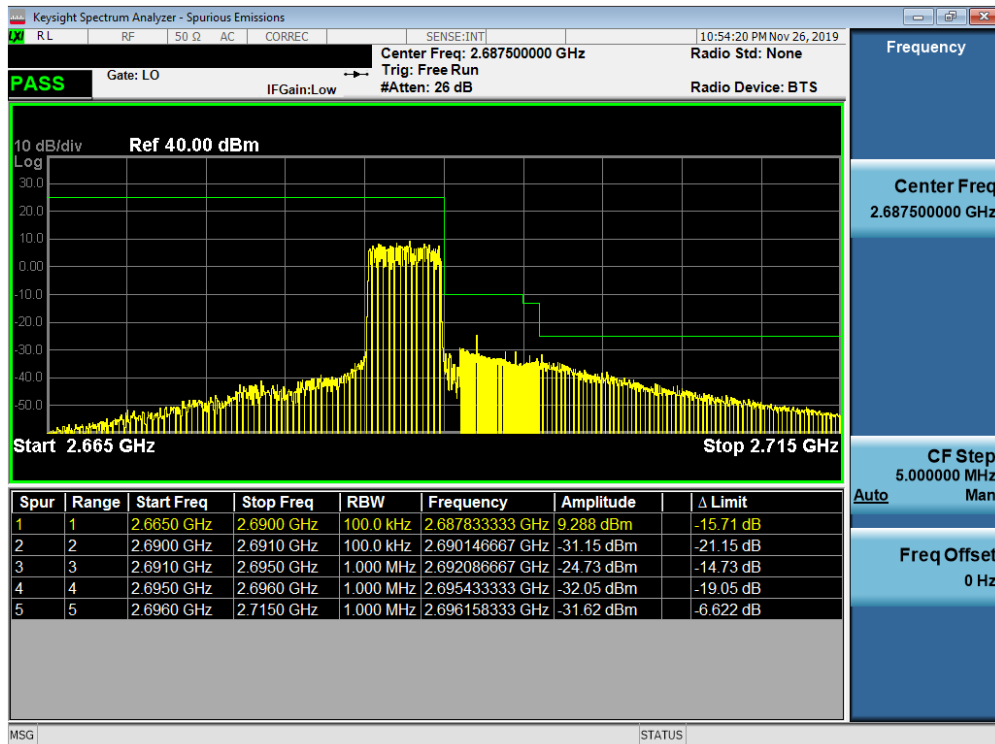
Plot 7-362. Higher ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset			Page 208 of 488

Band 41 PC2

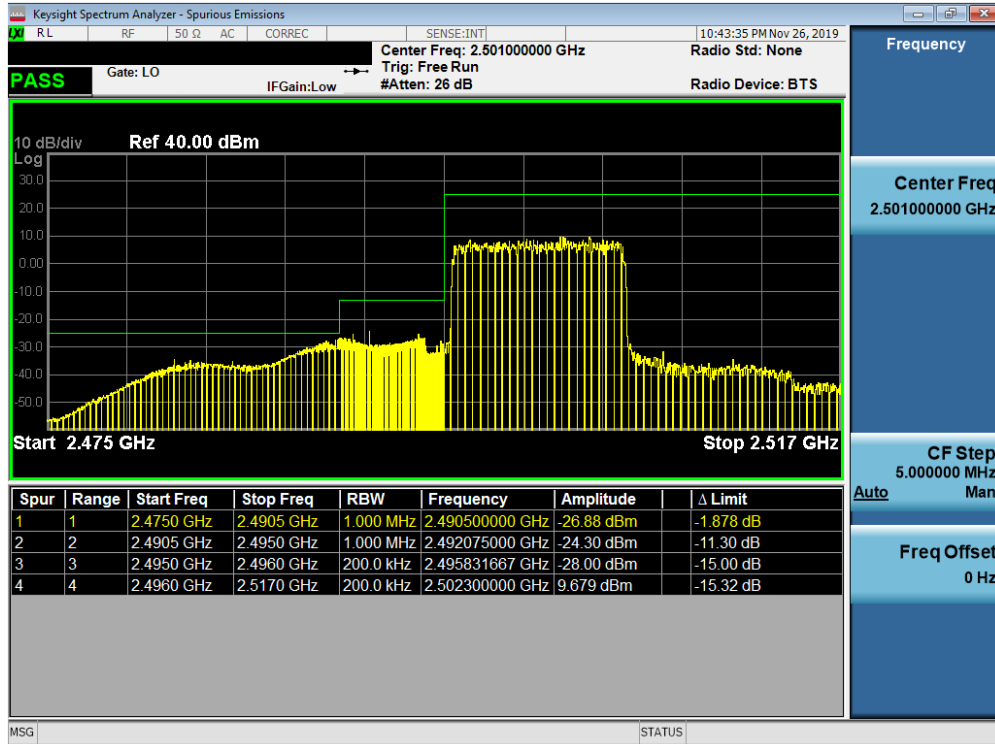


Plot 7-363. Lower ACP Plot at 2496 MHz (Band 41 PC2- 5.0MHz QPSK - Full RB Configuration)

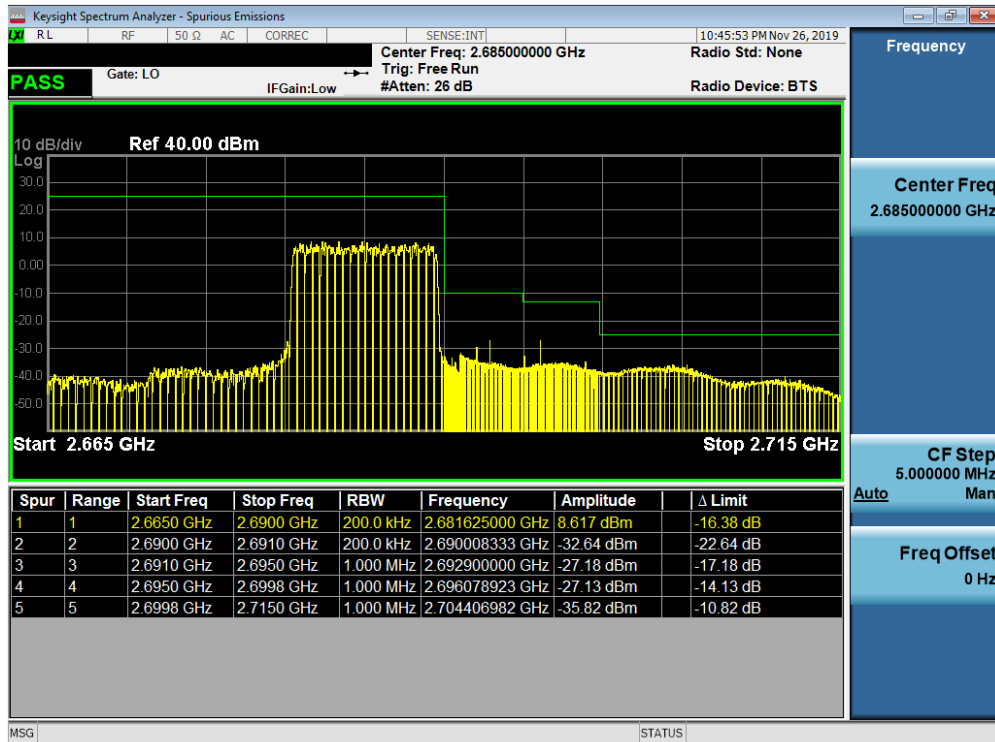


Plot 7-364. Upper ACP Plot (Band 41 PC2- 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset	Page 209 of 488		

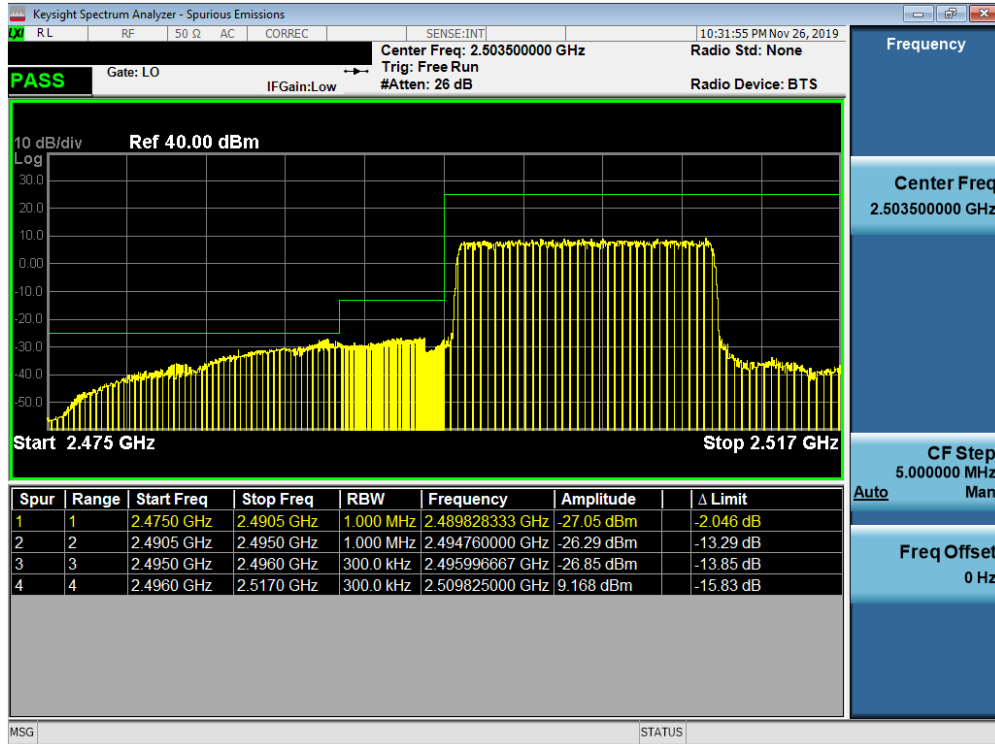


Plot 7-365. Lower ACP Plot at 2496 MHz (Band 41 PC2- 10.0MHz QPSK - Full RB Configuration)

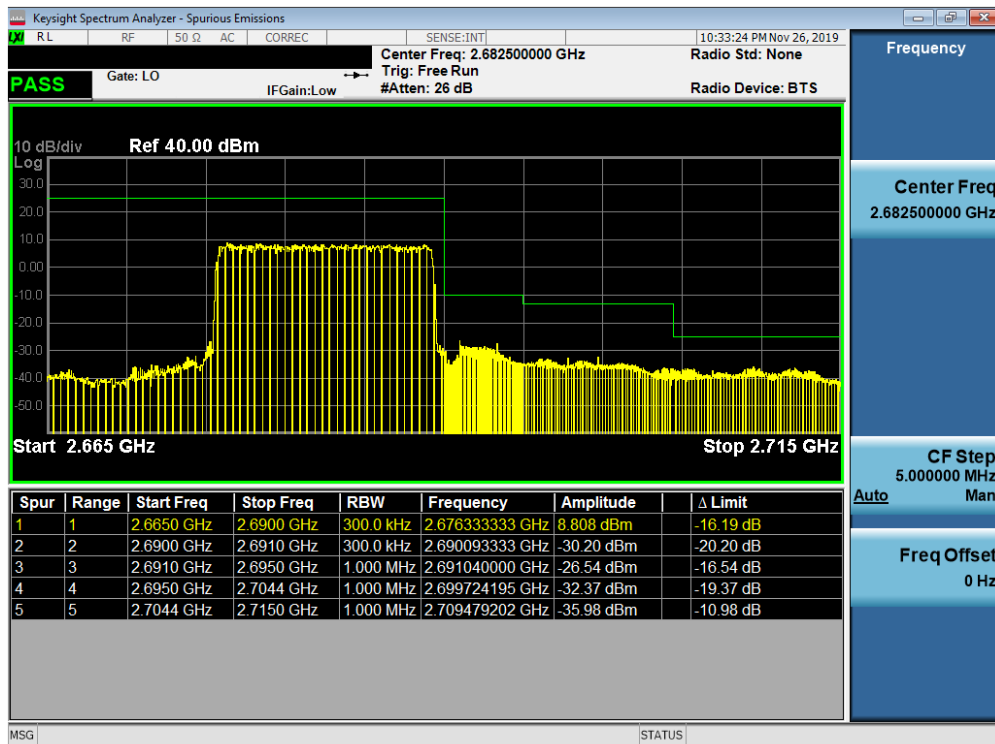


Plot 7-366. Upper ACP Plot (Band 41 PC2- 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset			Page 210 of 488

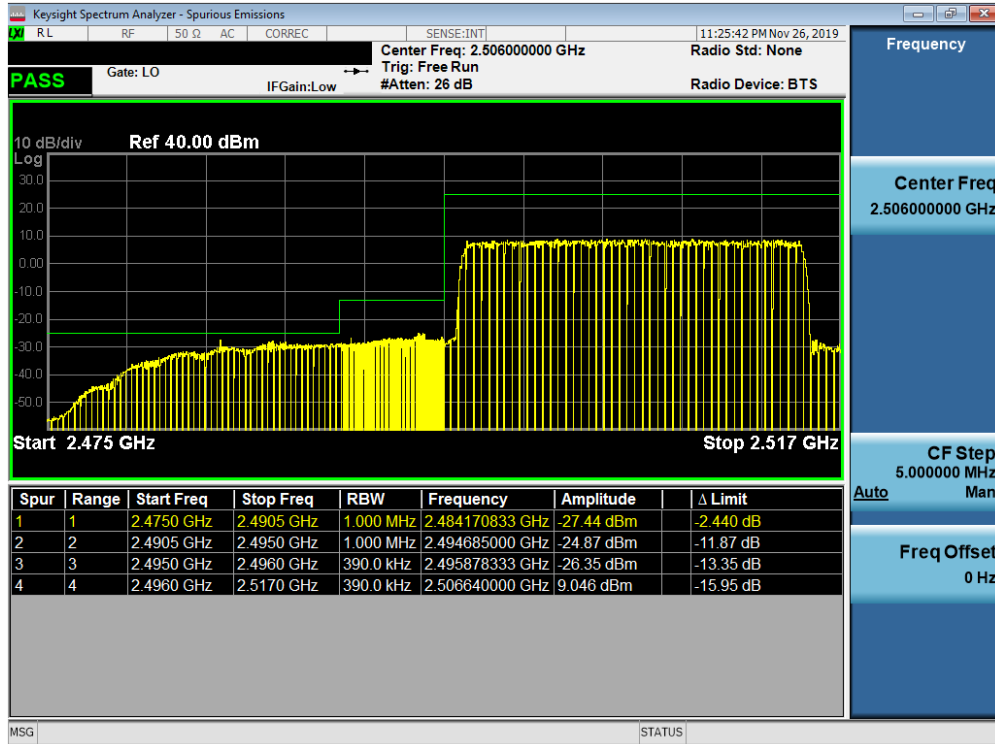


Plot 7-367. Lower ACP Plot at 2496 MHz (Band 41 PC2- 15.0MHz QPSK - Full RB Configuration)

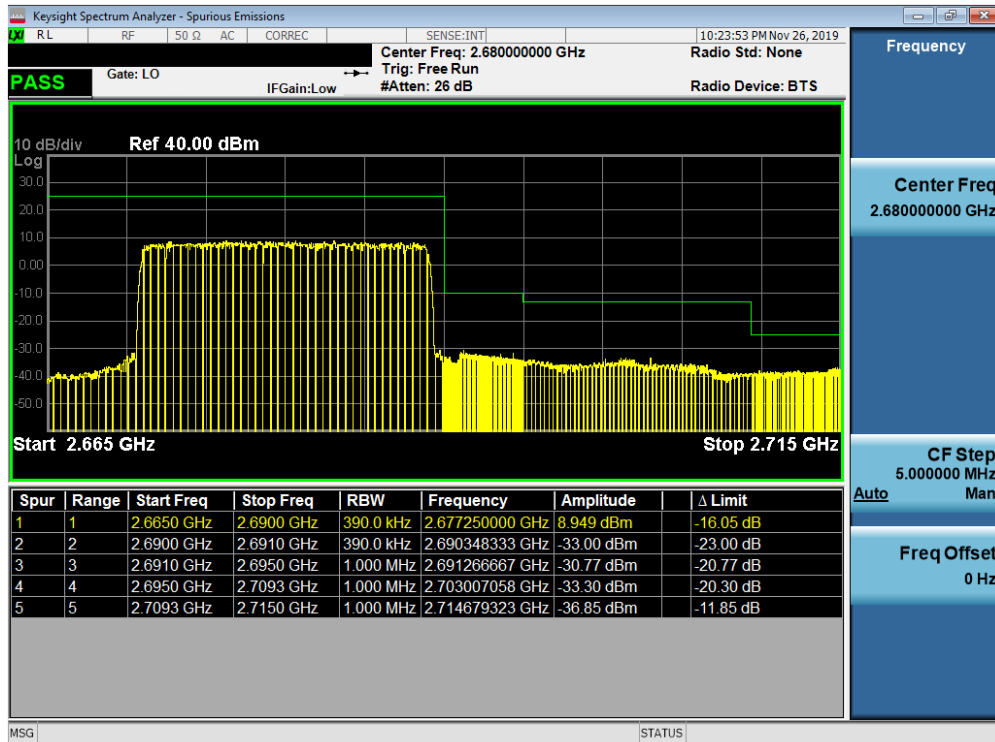


Plot 7-368. Upper ACP Plot (Band 41 PC2- 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 211 of 488



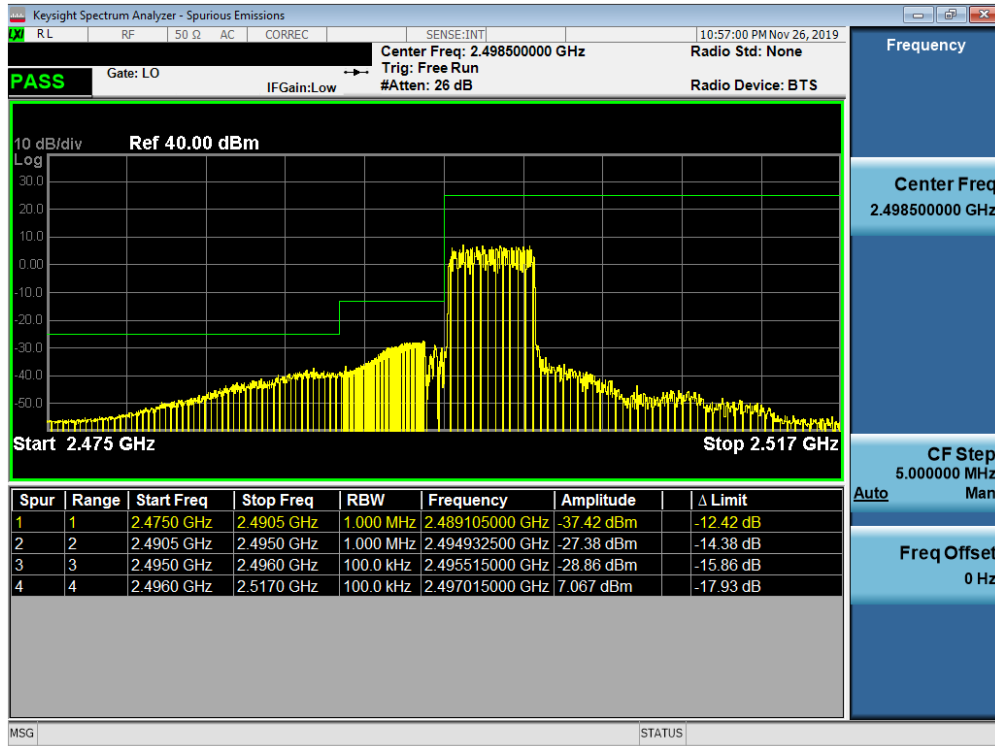
Plot 7-369. Lower ACP Plot at 2496 MHz (Band 41 PC2 - 20.0MHz QPSK - Full RB Configuration)



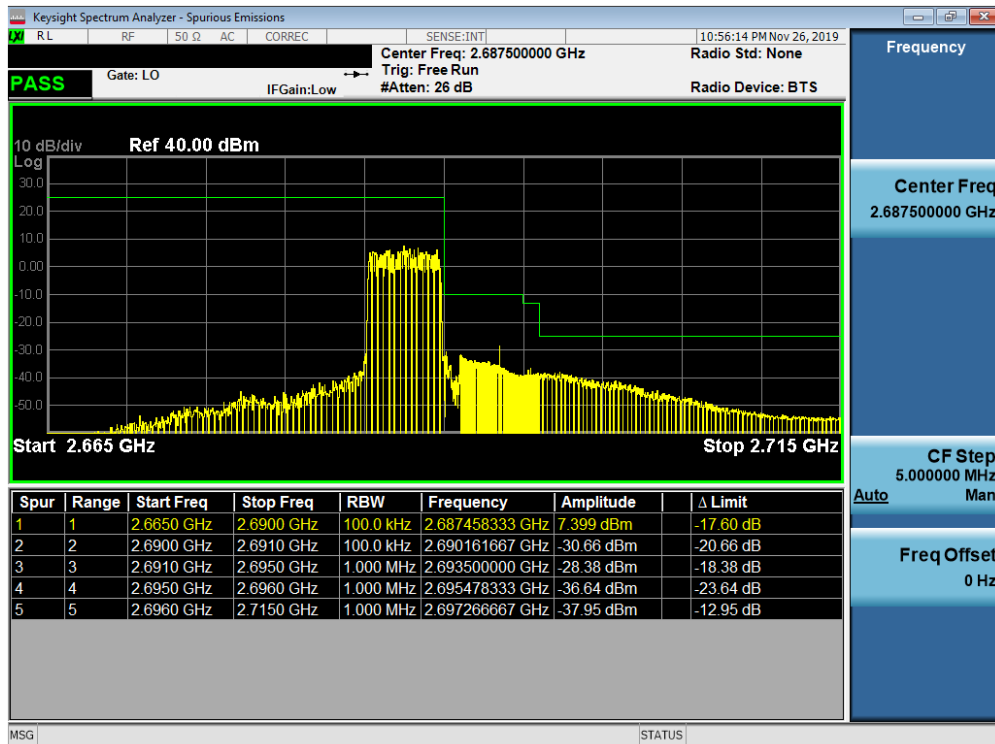
Plot 7-370. Upper ACP Plot (Band 41 PC2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset			Page 212 of 488

Band 41 PC3

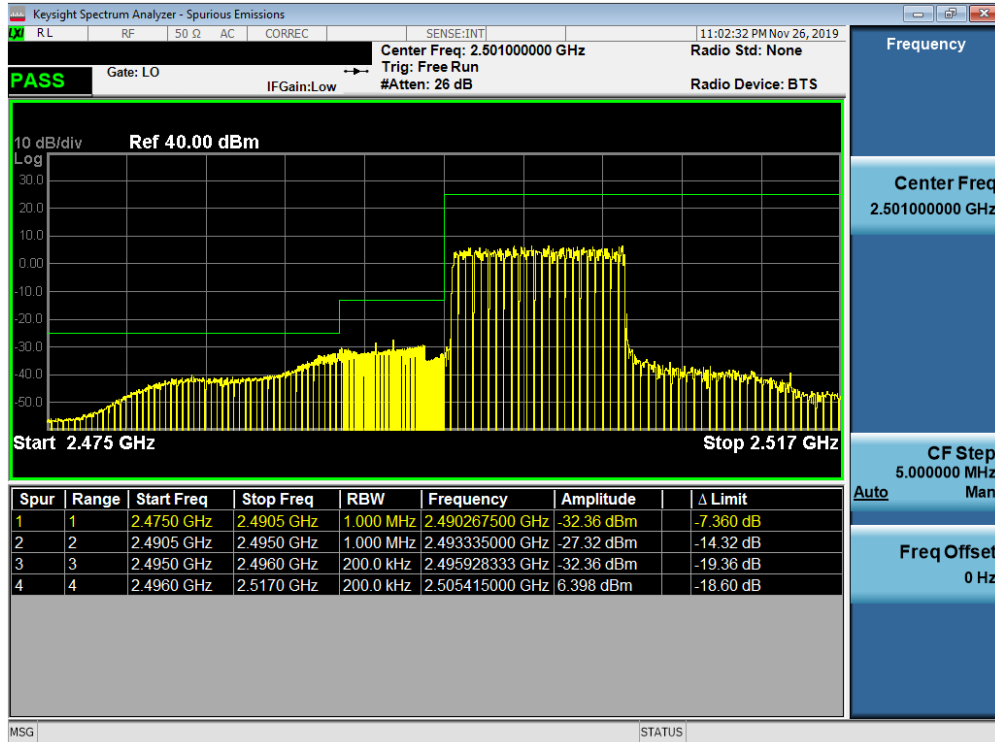


Plot 7-371. Lower ACP Plot at 2496 MHz (Band 41 PC3 - 5.0MHz QPSK - Full RB Configuration)

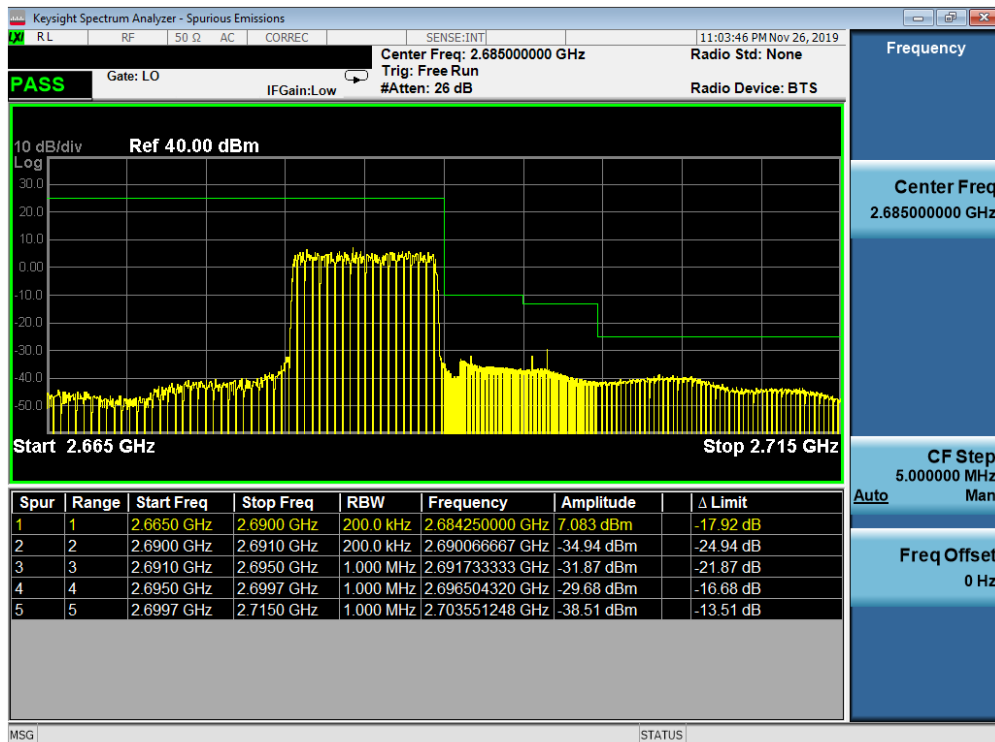


Plot 7-372. Upper ACP Plot (Band 41 PC3 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset	Page 213 of 488		

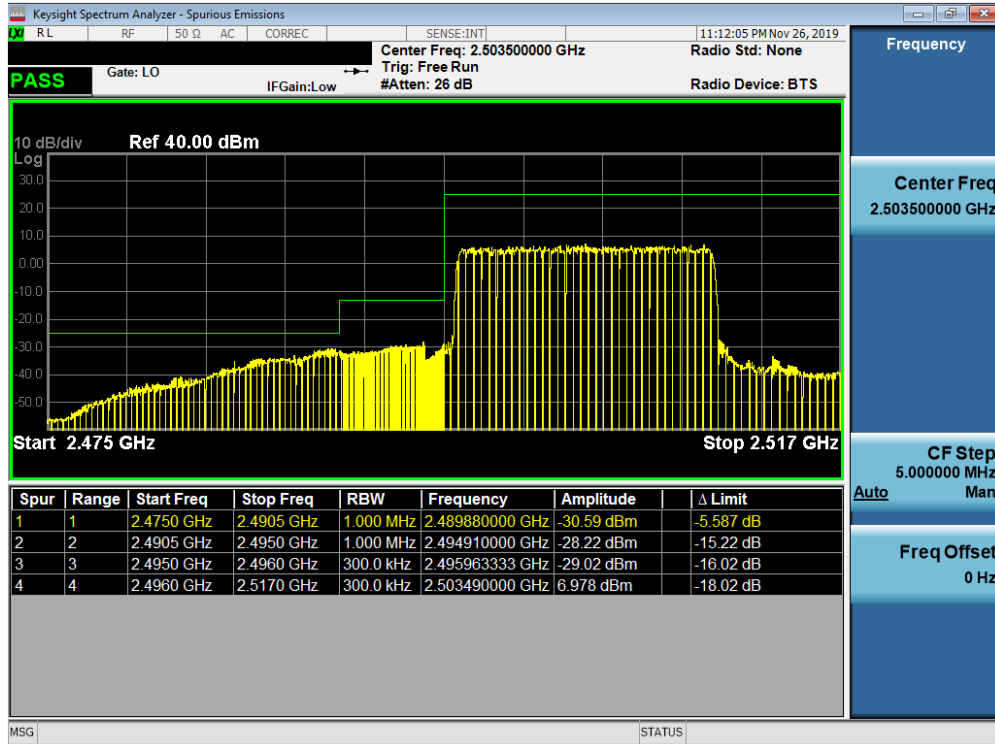


Plot 7-373. Lower ACP Plot at 2496 MHz (Band 41 PC3 - 10.0MHz QPSK - Full RB Configuration)

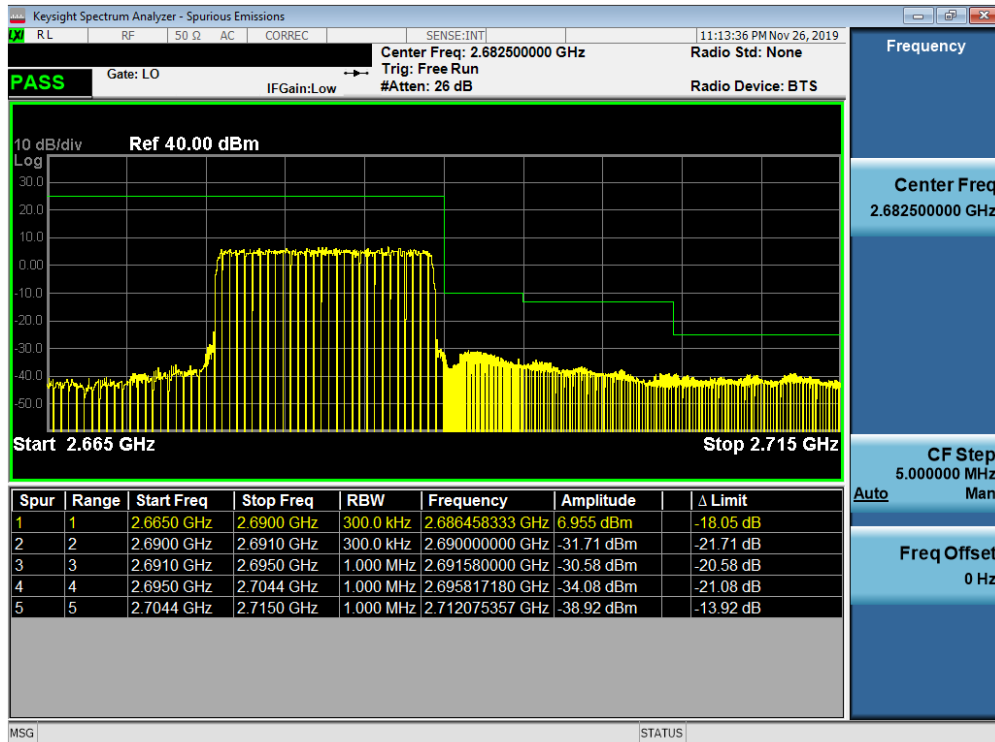


Plot 7-374. Upper ACP Plot (Band 41 PC3 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset			Page 214 of 488

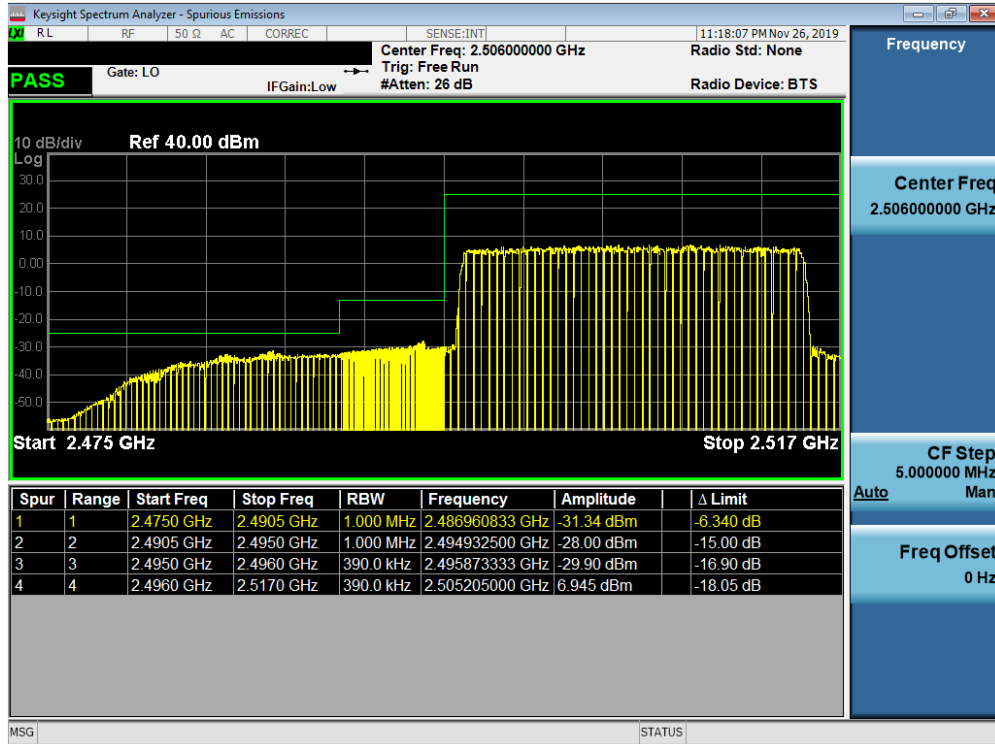


Plot 7-375. Lower ACP Plot at 2496 MHz (Band 41 PC3 - 15.0MHz QPSK - Full RB Configuration)

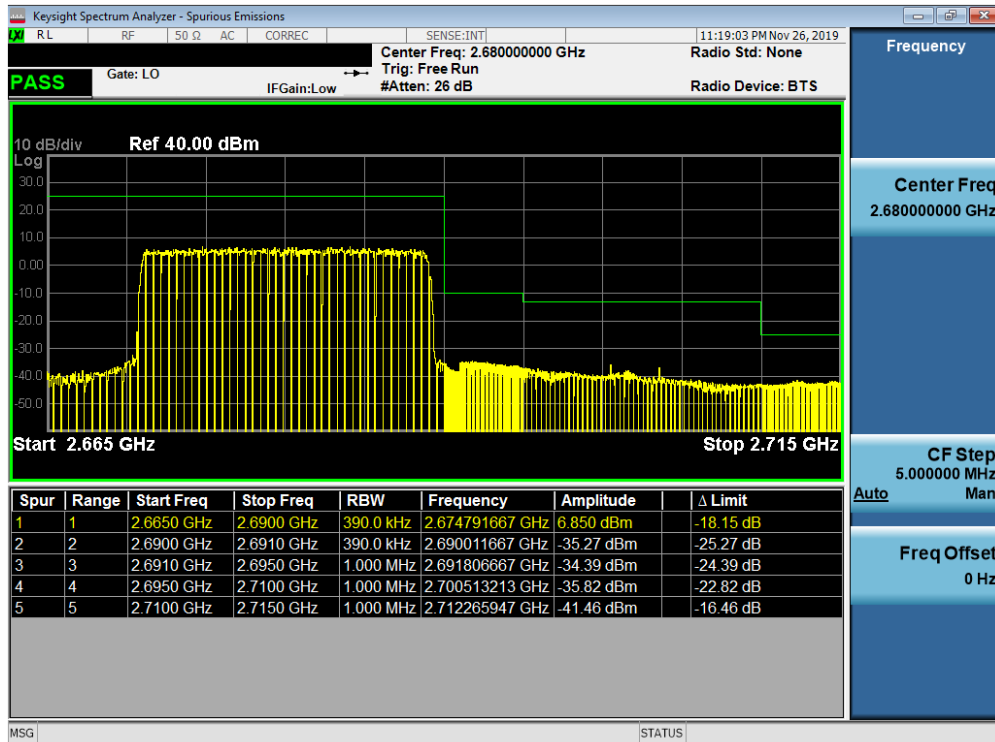


Plot 7-376. Upper ACP Plot (Band 41 PC3 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 215 of 488	



Plot 7-377. Lower ACP Plot at 2496 MHz (Band 41 PC3 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-378. Upper ACP Plot (Band 41 PC3 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFV600TM	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 216 of 488

7.5 Conducted Power Output Data

§2.1046

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]
20 MHz	DFT-s-OFDM $\pi/2$ BPSK	372000	1860.0	1 / 104	25.28	0.337
		376500	1882.5	1 / 104	25.27	0.337
		381000	1905.0	100 / 0	25.17	0.329
	DFT-s-OFDM QPSK	372000	1860.0	1 / 104	25.37	0.344
		376500	1882.5	1 / 104	25.29	0.338
		381000	1905.0	1 / 1	25.14	0.327
	DFT-s-OFDM 16QAM	372000	1860.0	1 / 0	25.16	0.328
		376500	1882.5	1 / 0	24.29	0.269
		381000	1905.0	1 / 0	25.16	0.328
	CP-OFDM QPSK	372000	1860.0	1 / 1	24.55	0.285
		376500	1882.5	1 / 1	23.72	0.236
		381000	1905.0	1 / 1	24.78	0.301

Table 7-3. Sub 6GHz NR n25 Conducted Power Output Data

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]
20 MHz	DFT-s-OFDM $\pi/2$ BPSK	344000	1720.0	50 / 56	24.57	0.286
		349000	1745.0	50 / 56	25.33	0.341
		354000	1770.0	1 / 104	25.29	0.338
	DFT-s-OFDM QPSK	344000	1720.0	1 / 104	24.78	0.301
		349000	1745.0	1 / 104	25.33	0.341
		354000	1770.0	1 / 1	25.47	0.352
	DFT-s-OFDM 16QAM	344000	1720.0	1 / 0	24.37	0.274
		349000	1745.0	1 / 0	25.23	0.333
		354000	1770.0	1 / 0	25.39	0.346
	CP-OFDM QPSK	344000	1720.0	1 / 1	24.12	0.258
		349000	1745.0	1 / 1	24.80	0.302
		354000	1770.0	1 / 1	25.14	0.327

Table 7-4. Sub 6GHz NR n66 Conducted Power Output Data

FCC ID: ZNFV600TM			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset			Page 217 of 488

7.6 Peak-Average Ratio

Test Overview

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

Test Procedure Used

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.

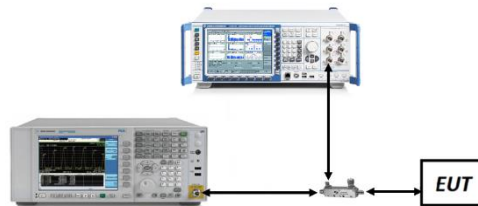


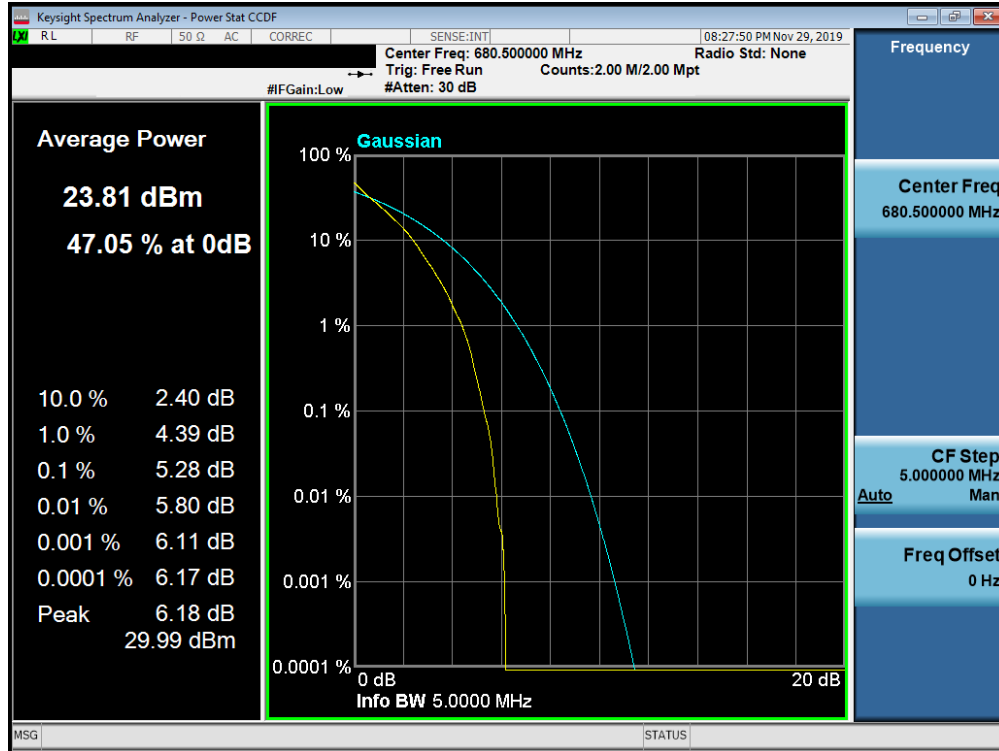
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

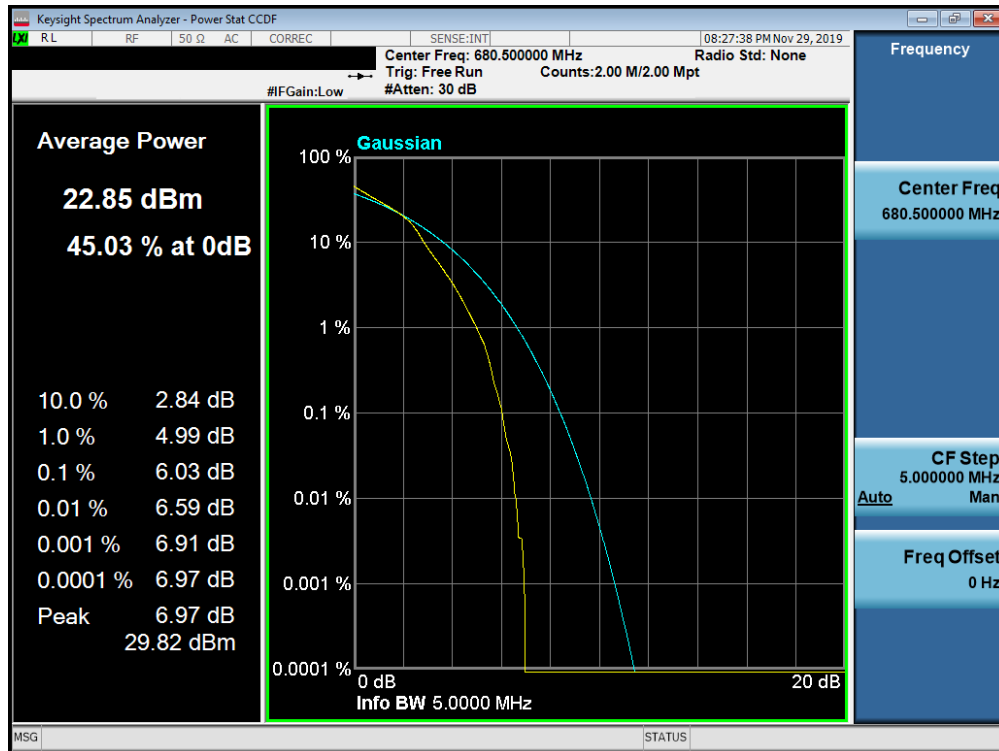
None.

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3.ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 218 of 488

Band 71

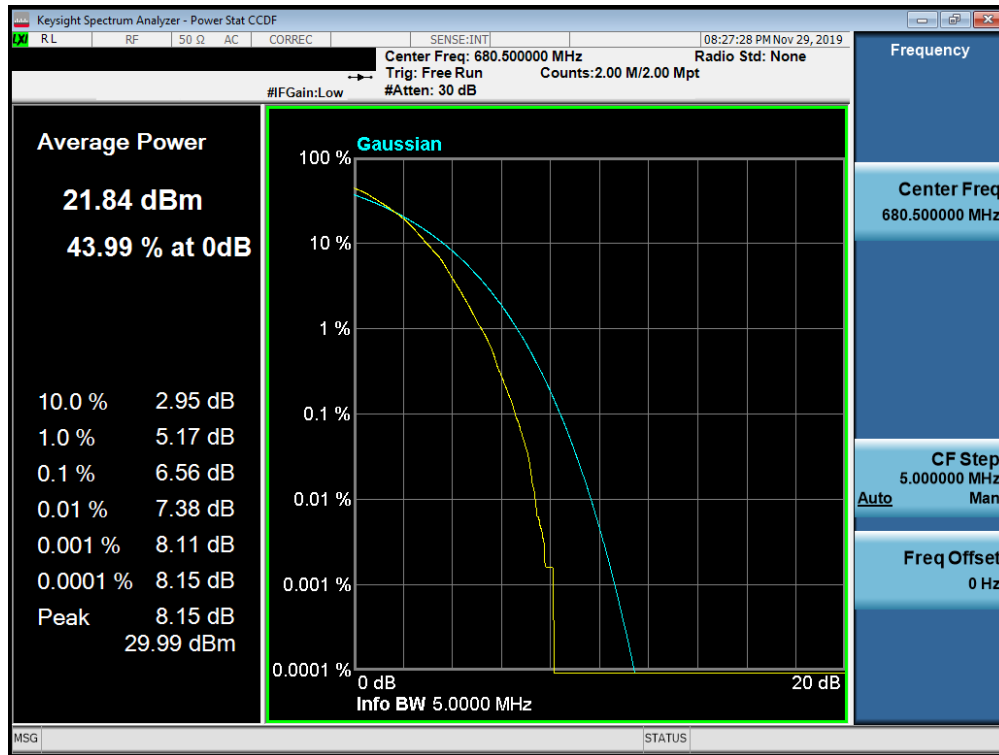


Plot 7-379. PAR Plot (Band 71 – 5.0MHz QPSK - Full RB Configuration)

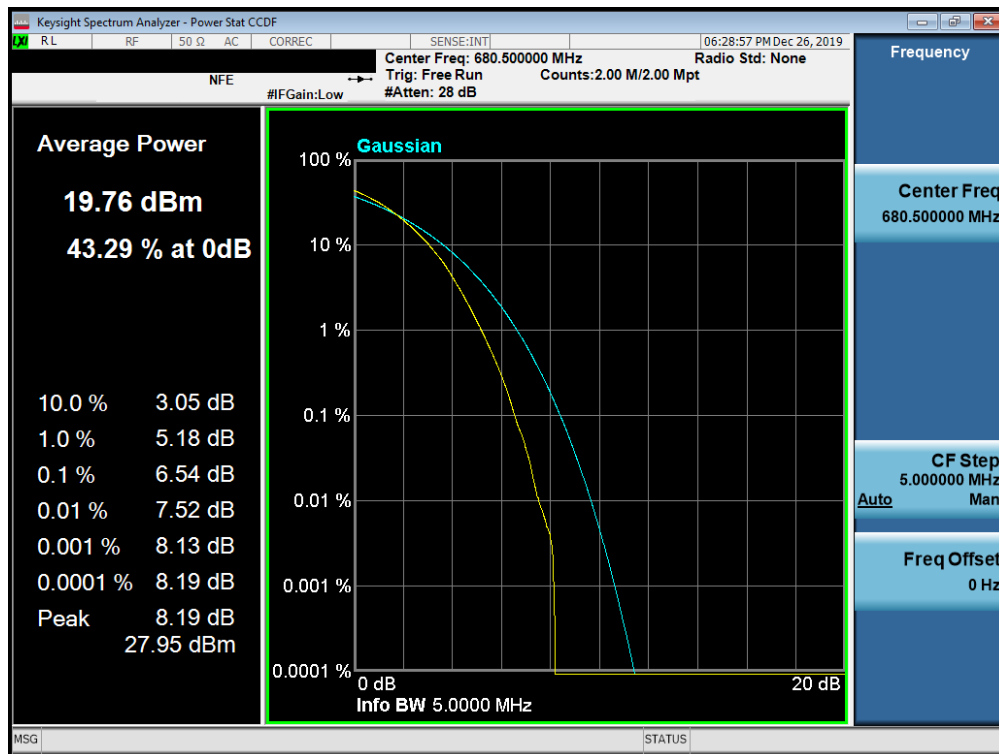


Plot 7-380. PAR Plot (Band 71 – 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 219 of 488

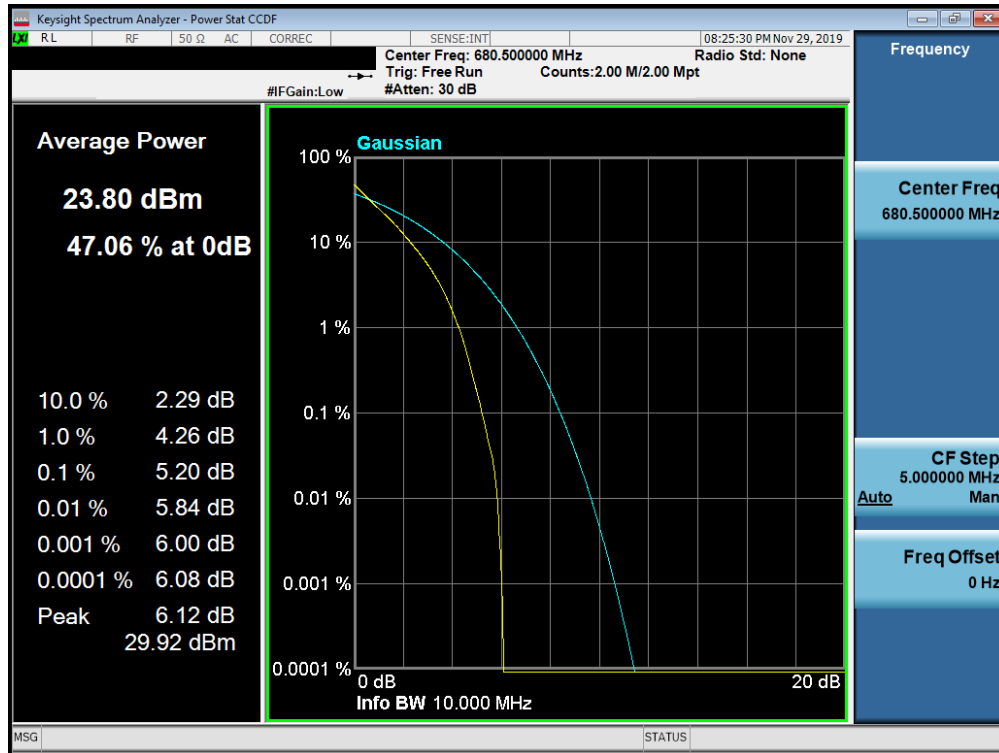


Plot 7-381. PAR Plot (Band 71 – 5.0MHz 64-QAM - Full RB Configuration)

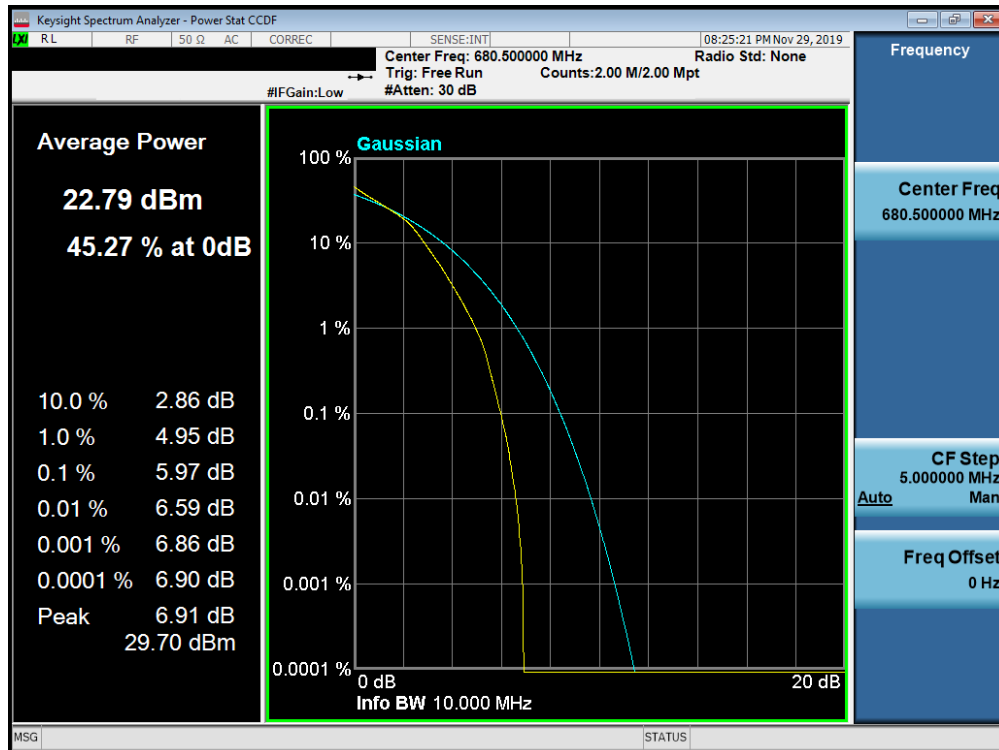


Plot 7-382. PAR Plot (Band 71 – 5.0MHz 256-QAM - Full RB Configuration)

FCC ID: ZNFV600TM	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset	Page 220 of 488

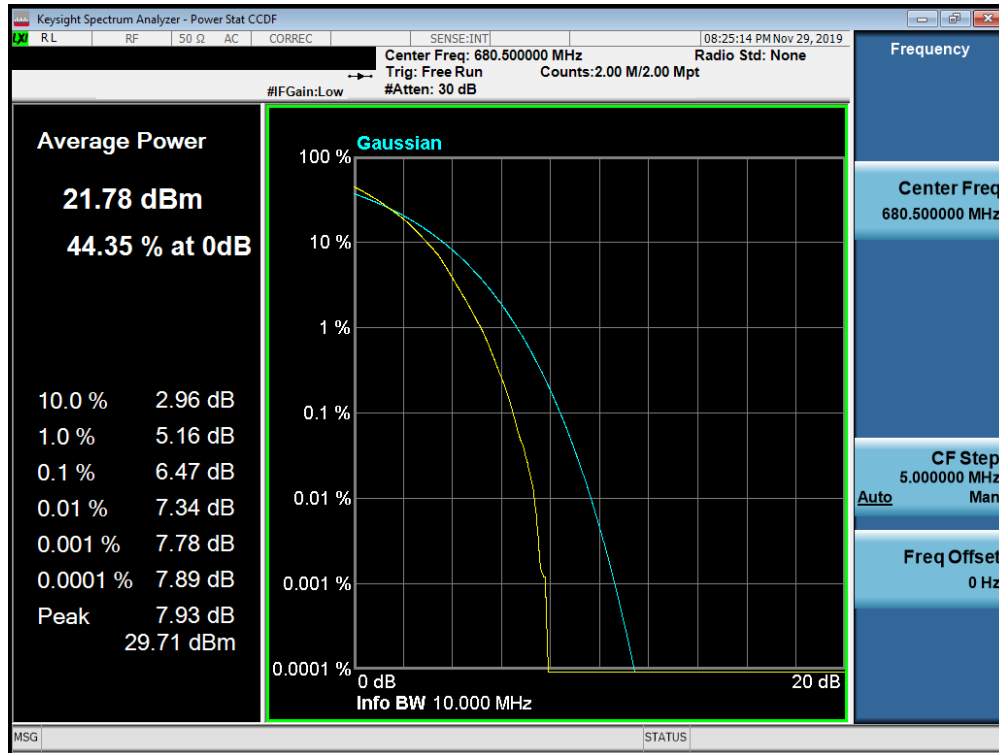


Plot 7-383. PAR Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)

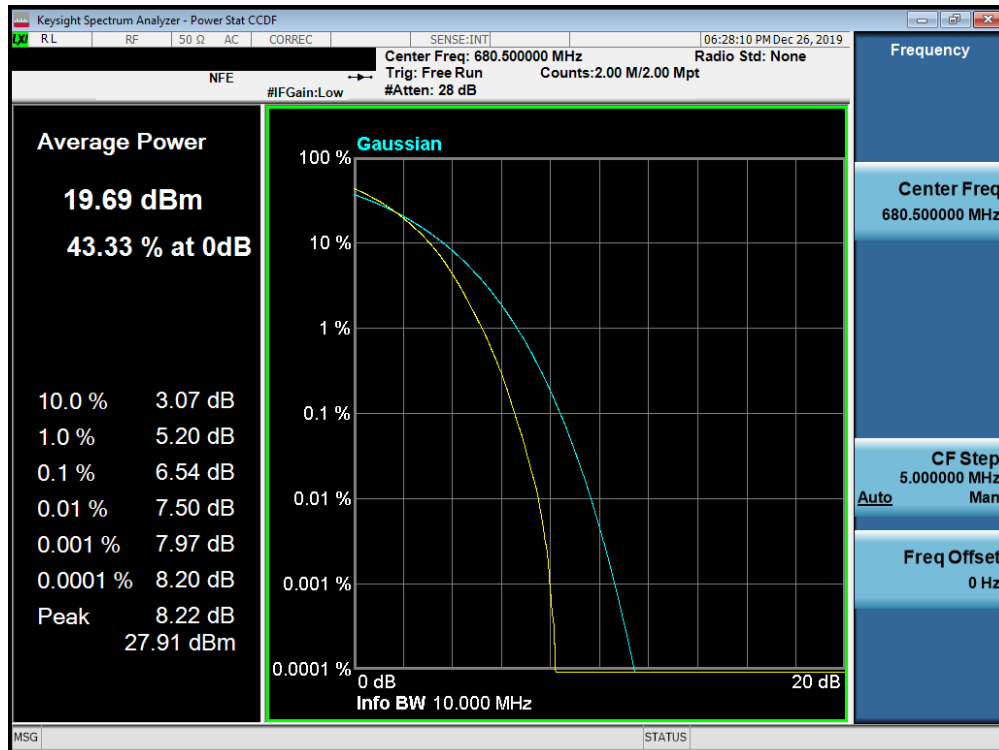


Plot 7-384. PAR Plot (Band 71 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 221 of 488

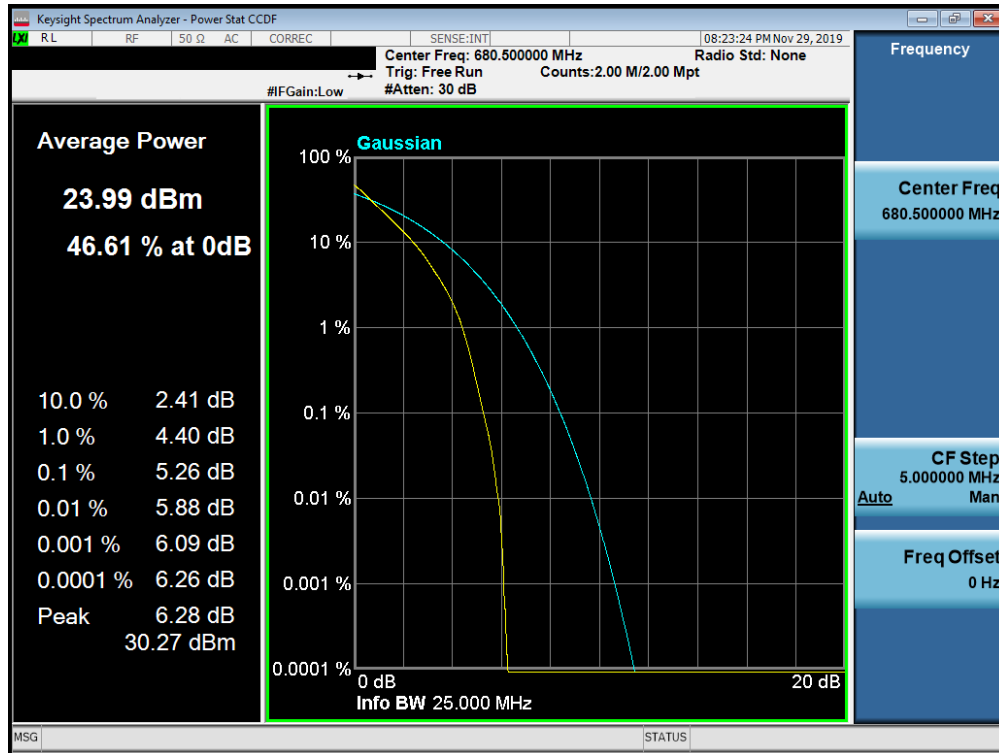


Plot 7-385. PAR Plot (Band 71 - 10.0MHz 64-QAM - Full RB Configuration)

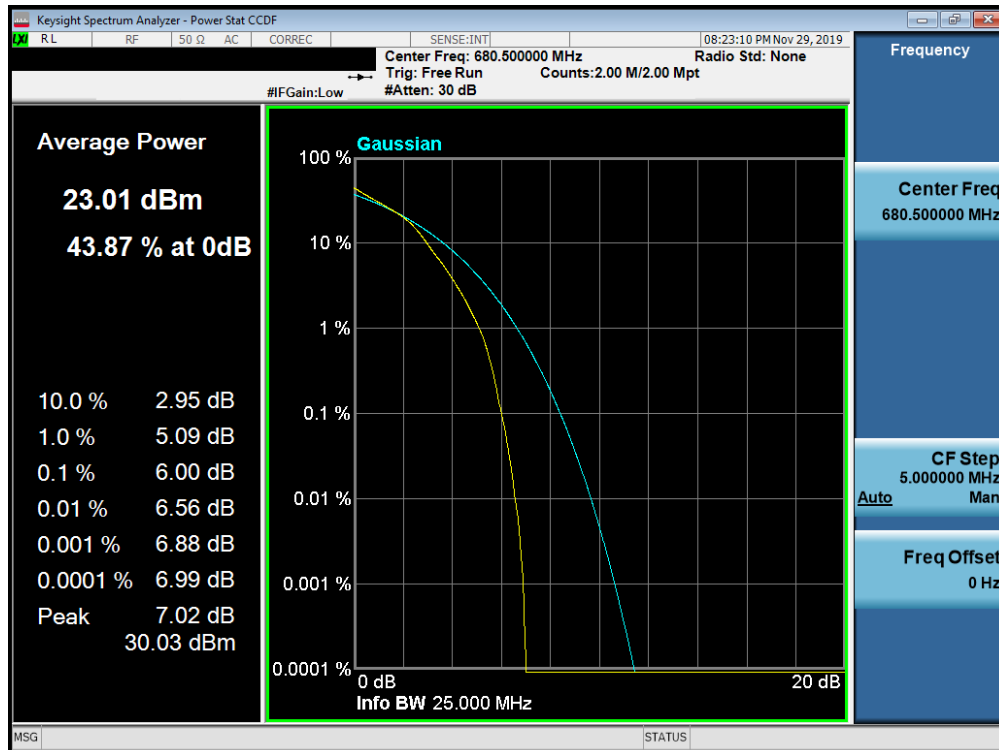


Plot 7-386. PAR Plot (Band 71 - 10.0MHz 256-QAM - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 222 of 488

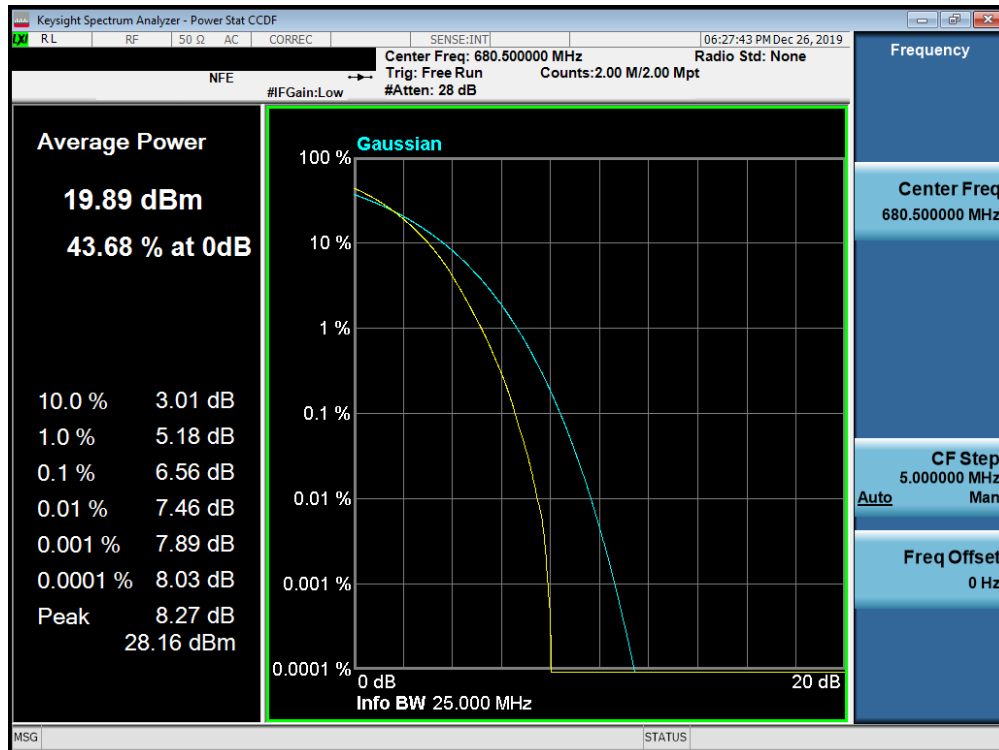
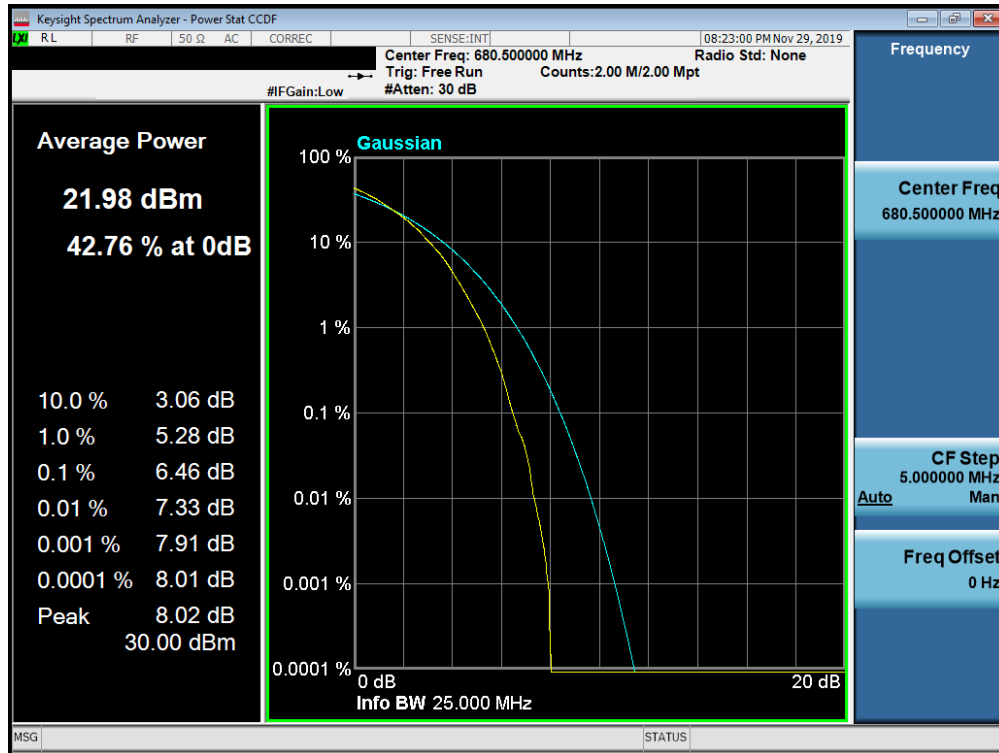


Plot 7-387. PAR Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)

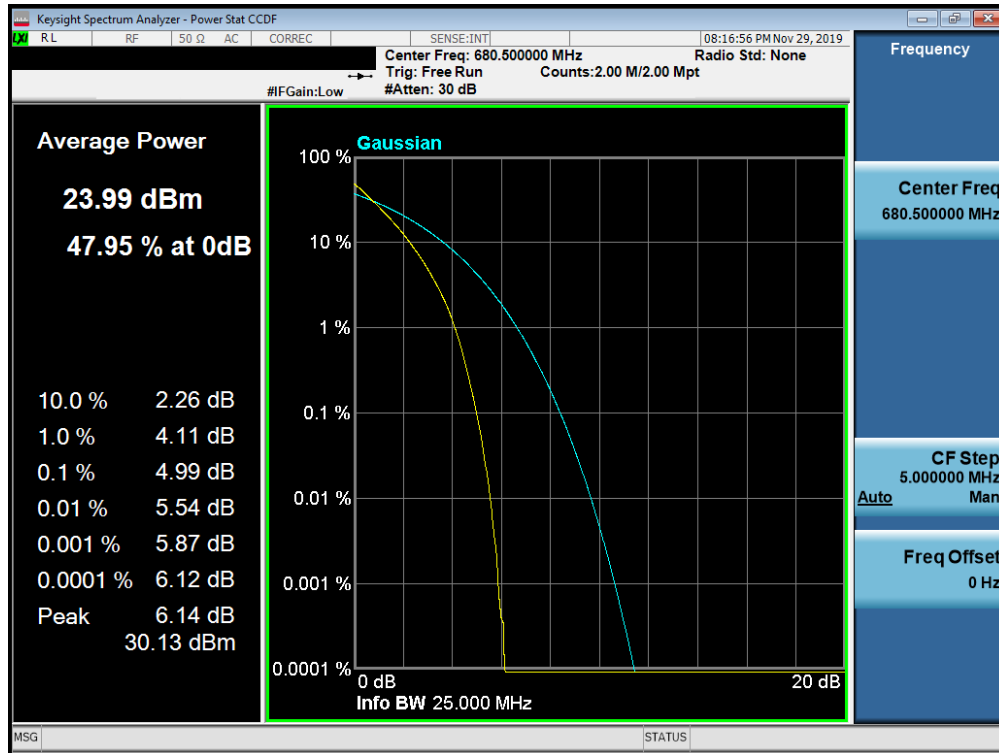


Plot 7-388. PAR Plot (Band 71 - 15.0MHz 16-QAM - Full RB Configuration)

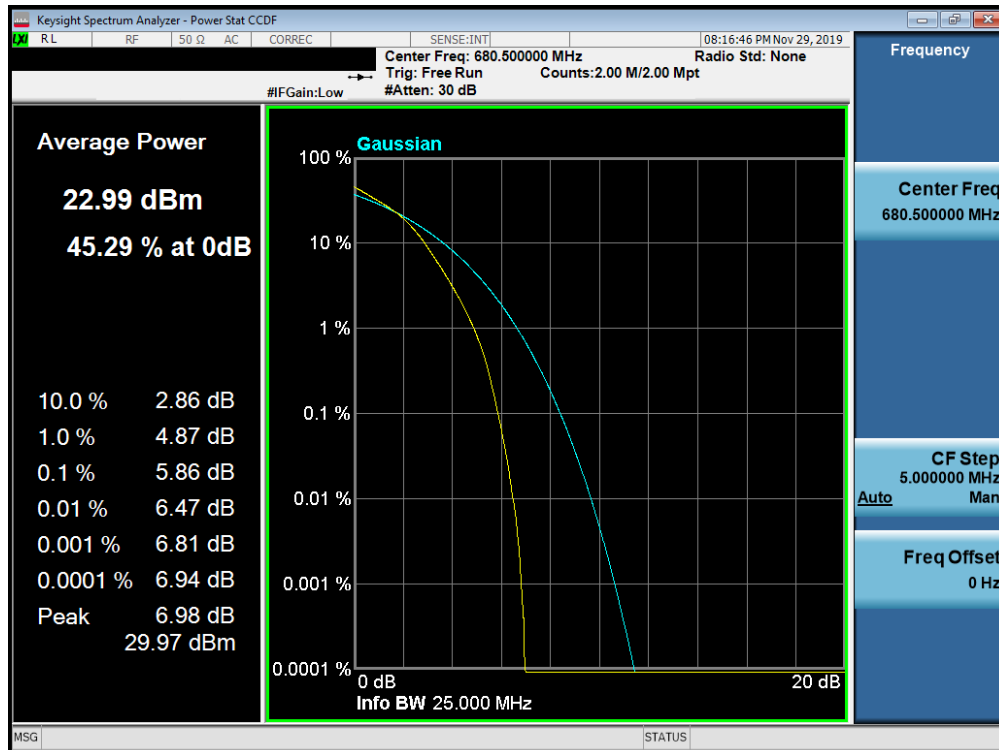
FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 223 of 488



FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 224 of 488

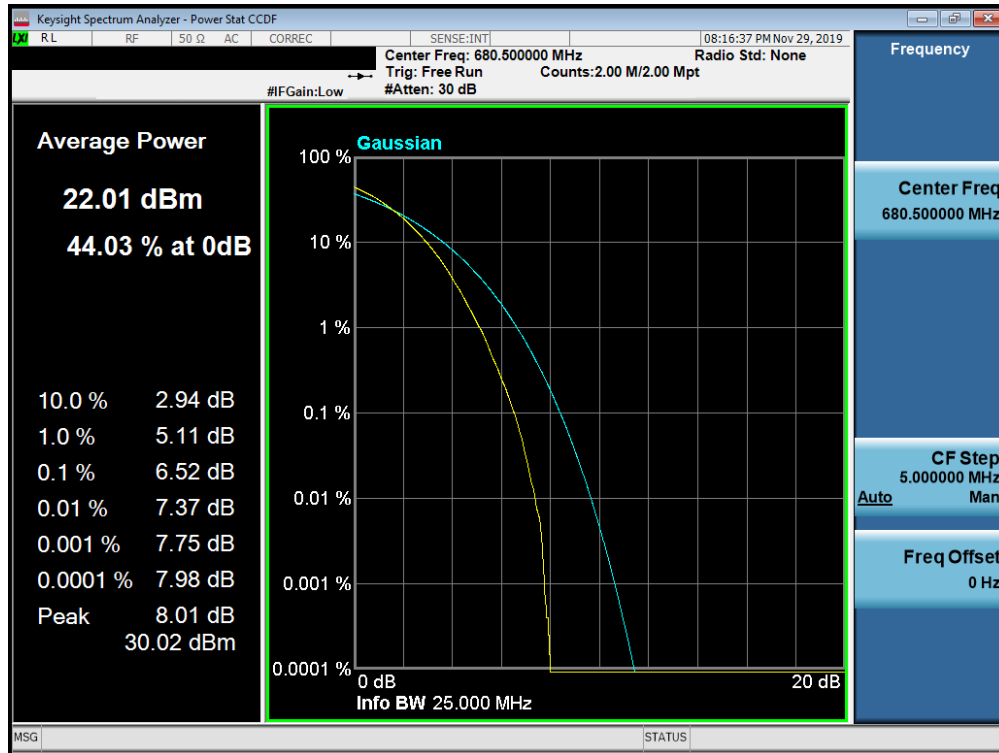


Plot 7-391. PAR Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)

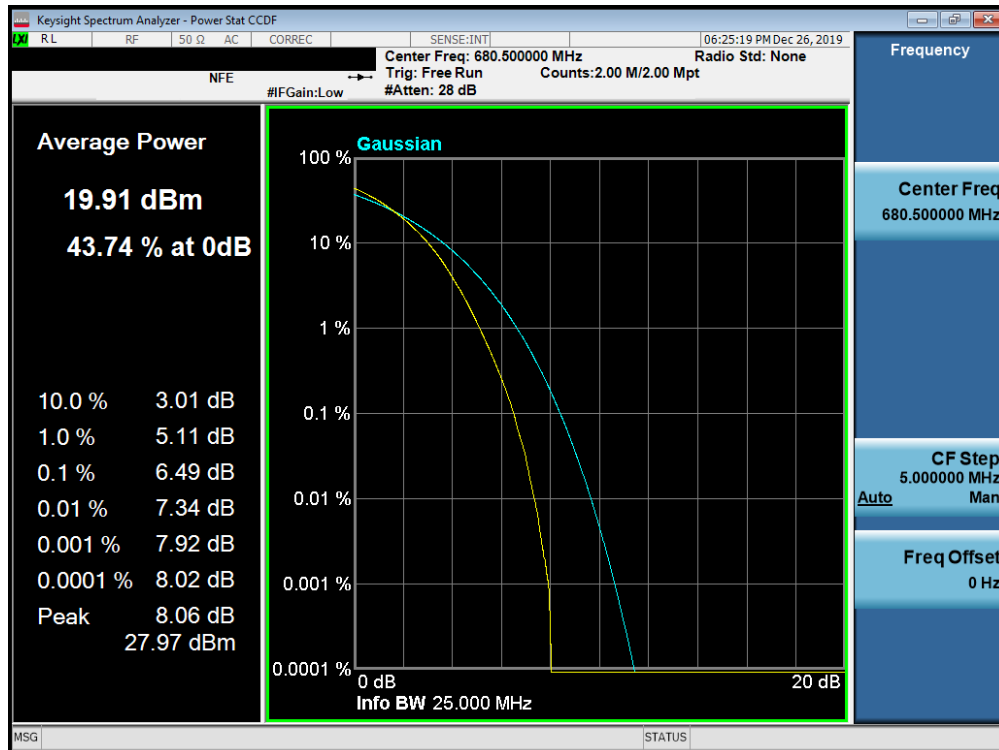


Plot 7-392. PAR Plot (Band 71 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFV600TM	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 225 of 488

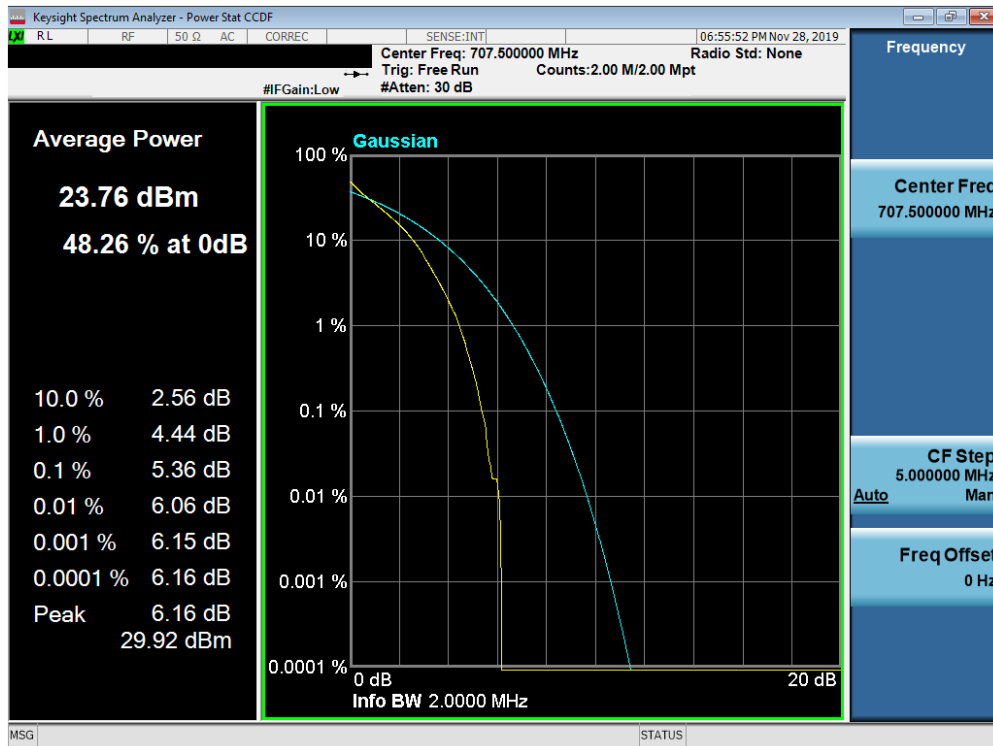


Plot 7-393. PAR Plot (Band 71 - 20.0MHz 64-QAM - Full RB Configuration)

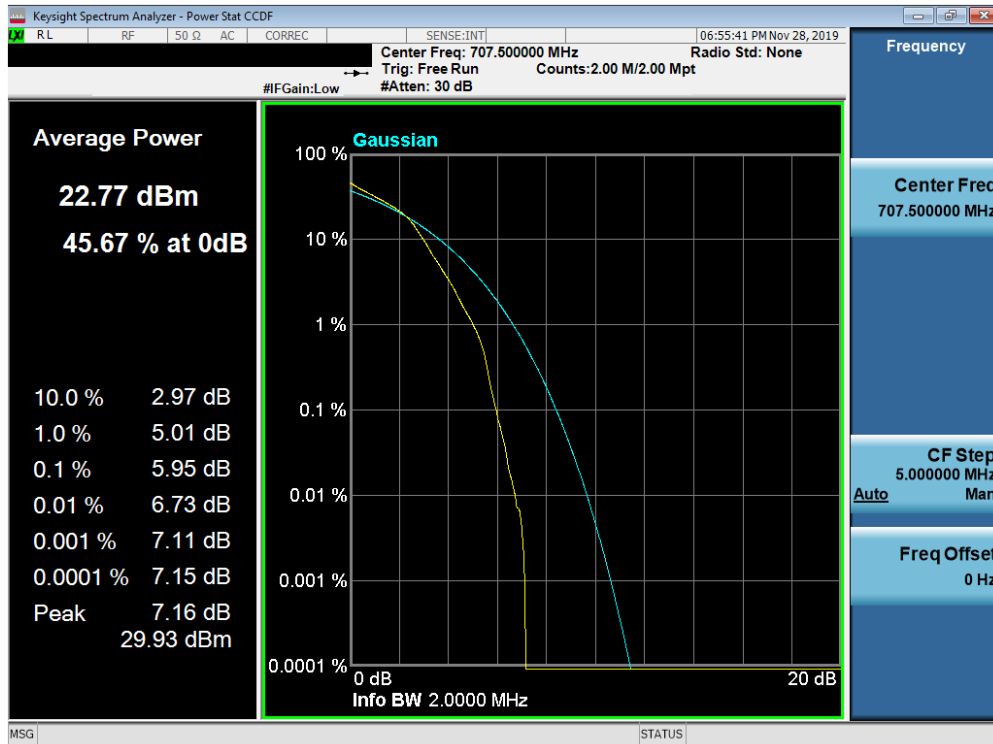


Plot 7-394. PAR Plot (Band 71 - 20.0MHz 256-QAM - Full RB Configuration)

FCC ID: ZNFV600TM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset		Page 226 of 488

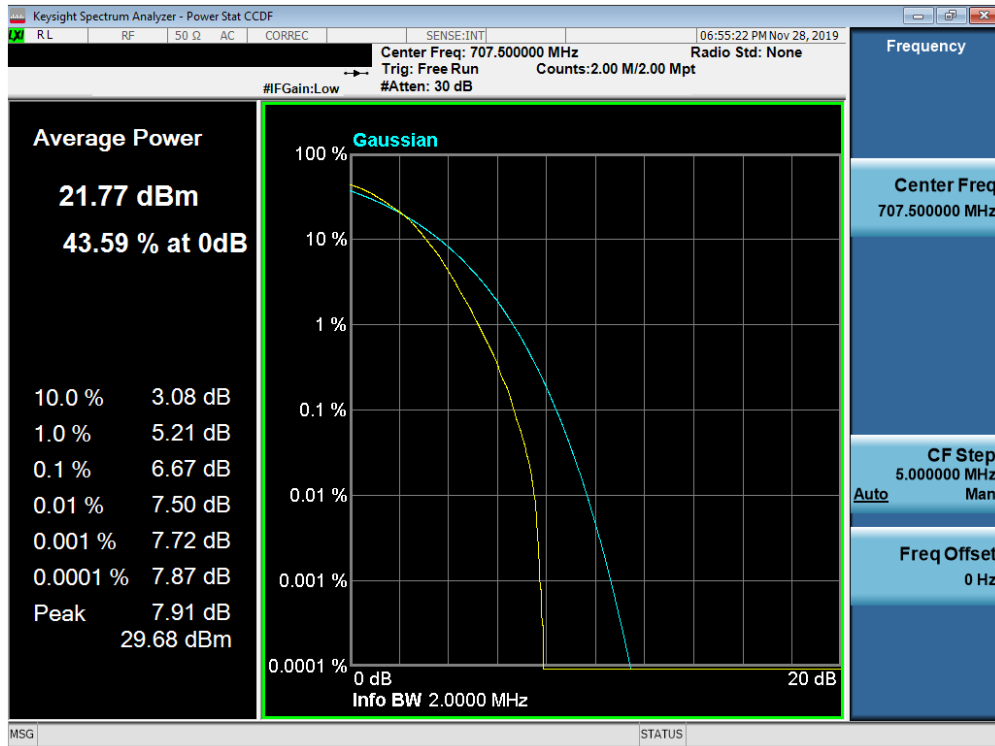


Plot 7-395. PAR Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)

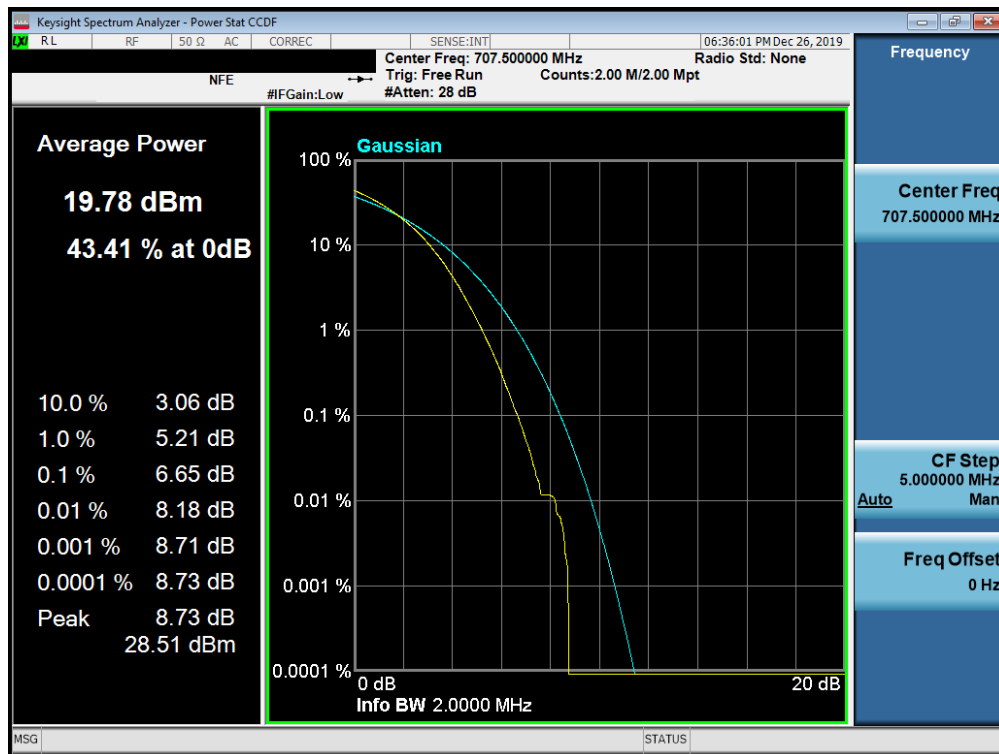


Plot 7-396. PAR Plot (Band 12 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFV600TM	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset	Page 227 of 488



Plot 7-397. PAR Plot (Band 12 - 1.4MHz 64-QAM - Full RB Configuration)



Plot 7-398. PAR Plot (Band 12 - 1.4MHz 256-QAM - Full RB Configuration)

FCC ID: ZNFV600TM	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911250198-03-R3-ZNF	Test Dates: 11/26/2019 - 1/19/2020	EUT Type: Portable Handset	Page 228 of 488