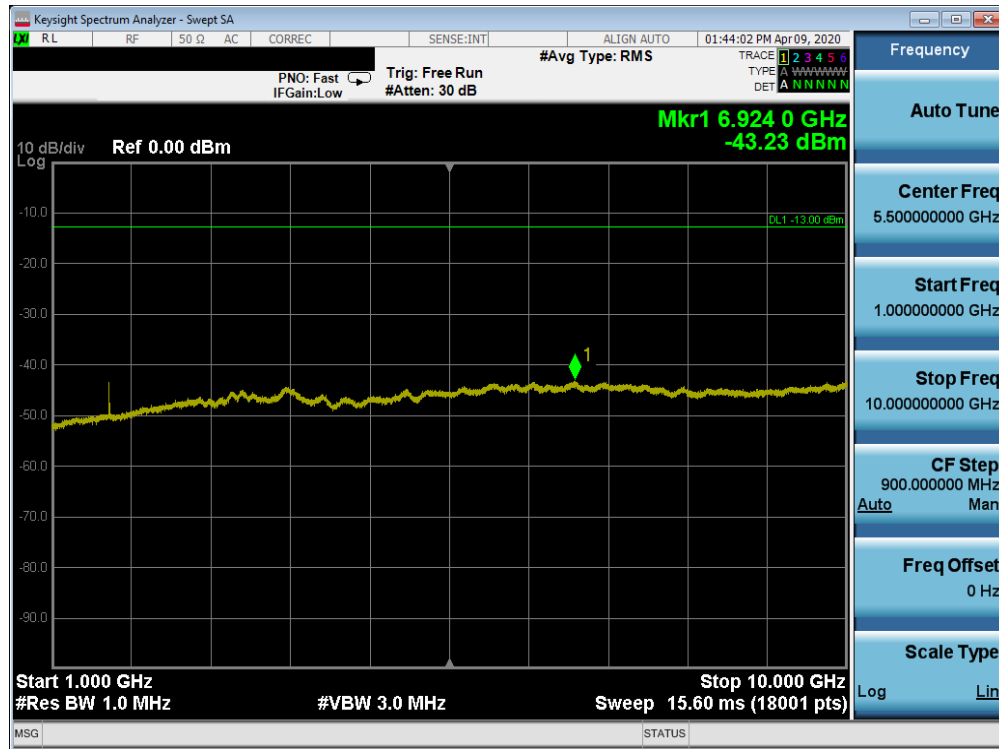
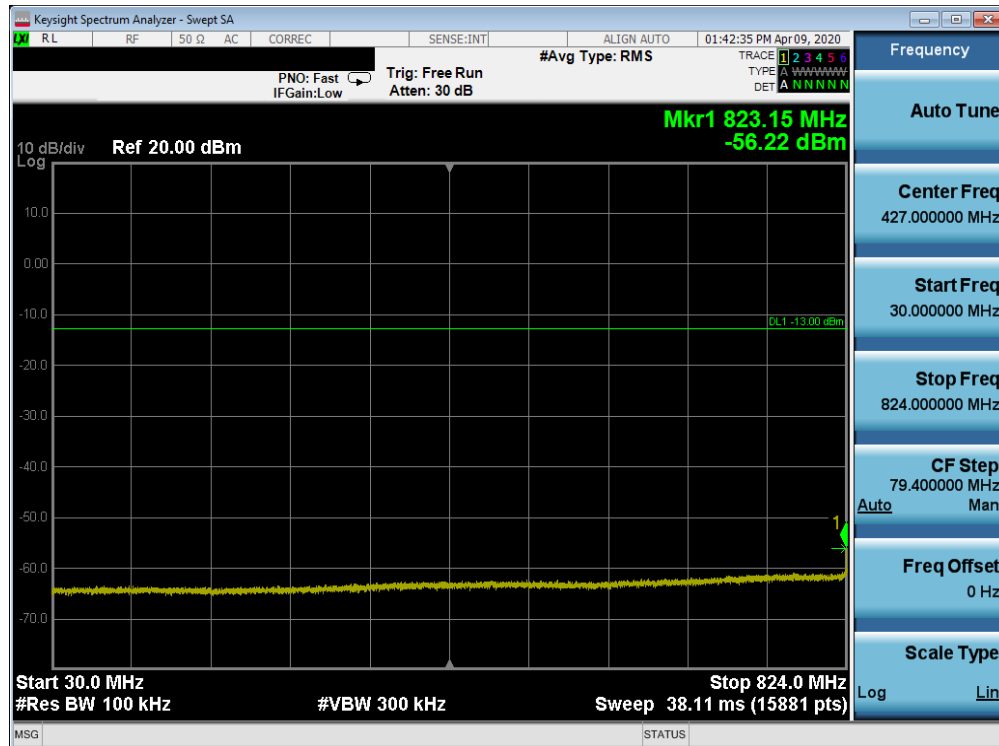


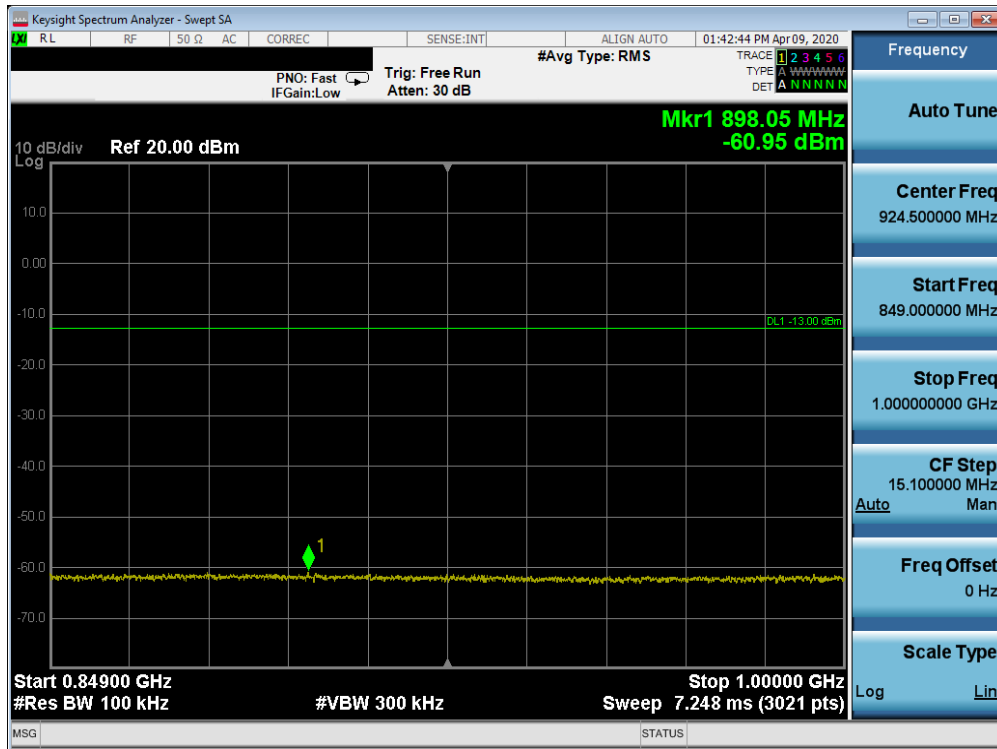


Plot 7-247. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

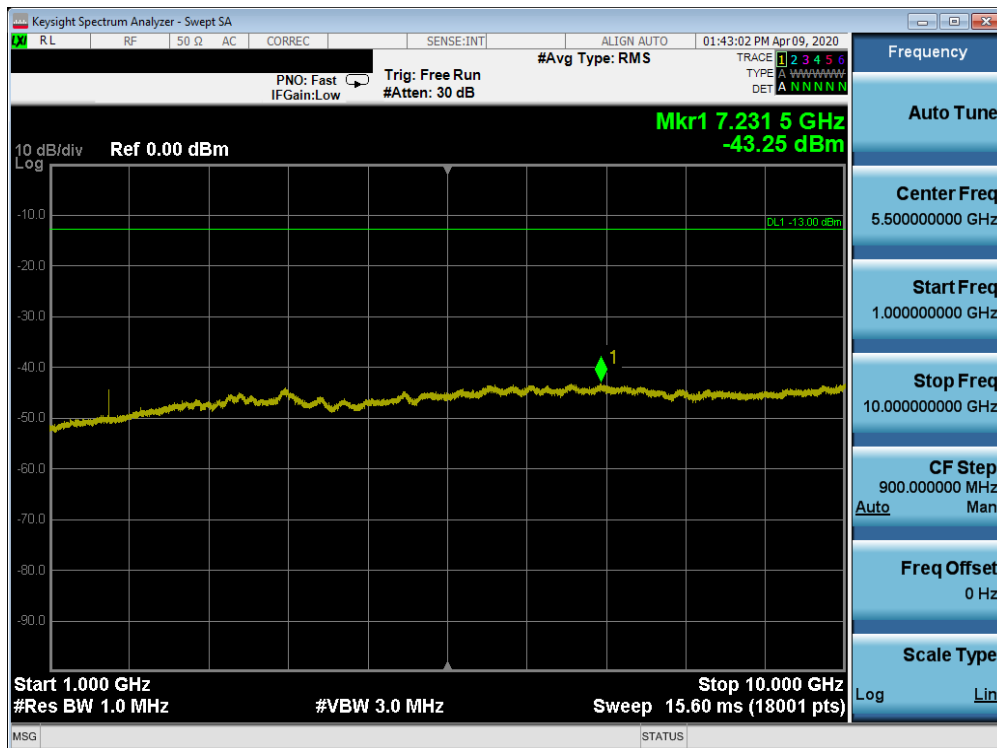


Plot 7-248. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 144 of 438

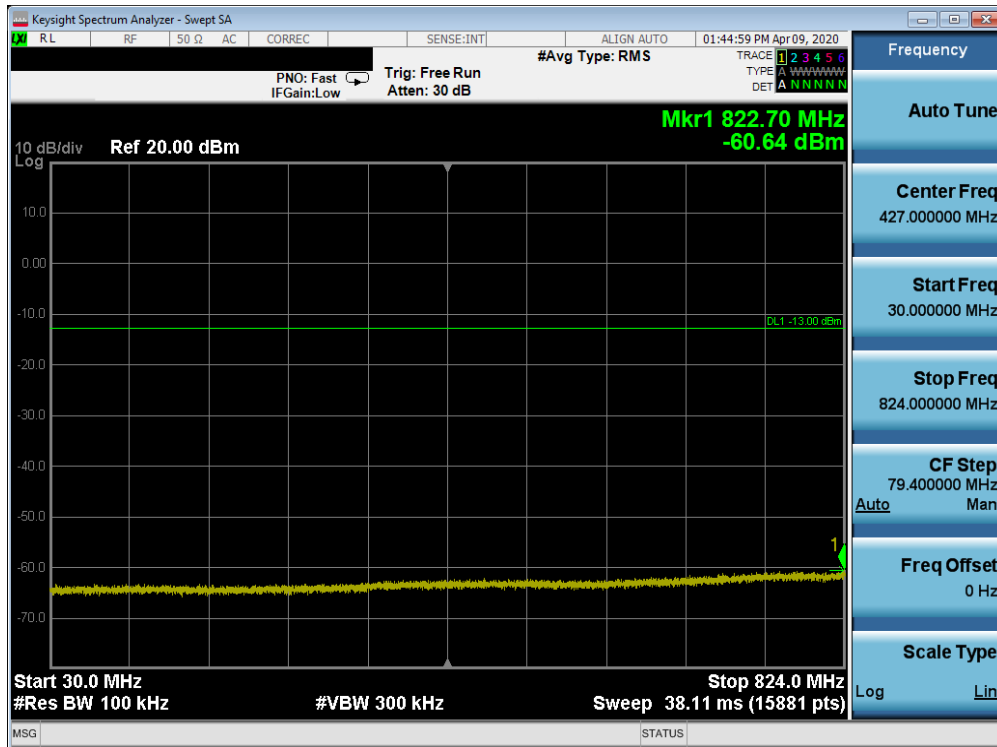


Plot 7-249. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

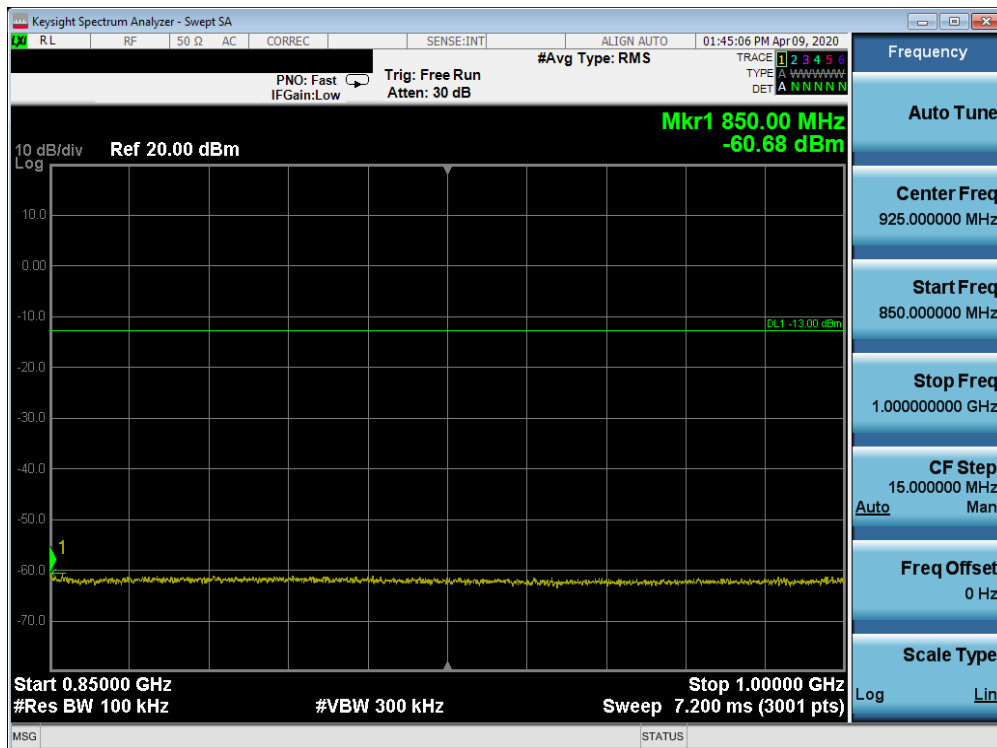


Plot 7-250. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 145 of 438

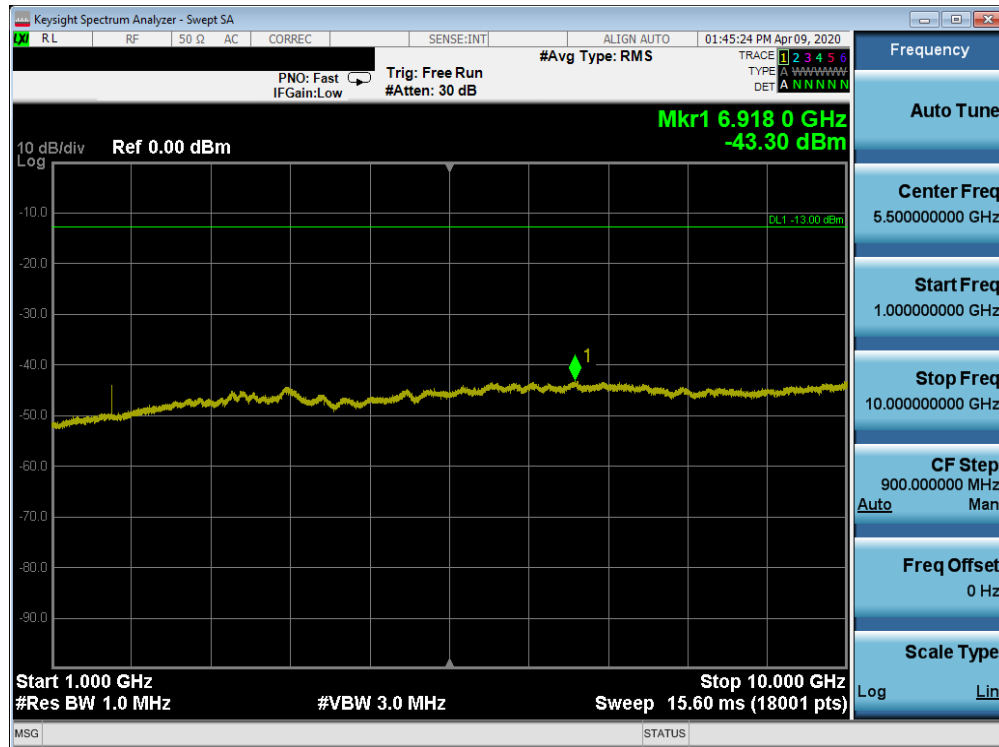


Plot 7-251. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-252. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

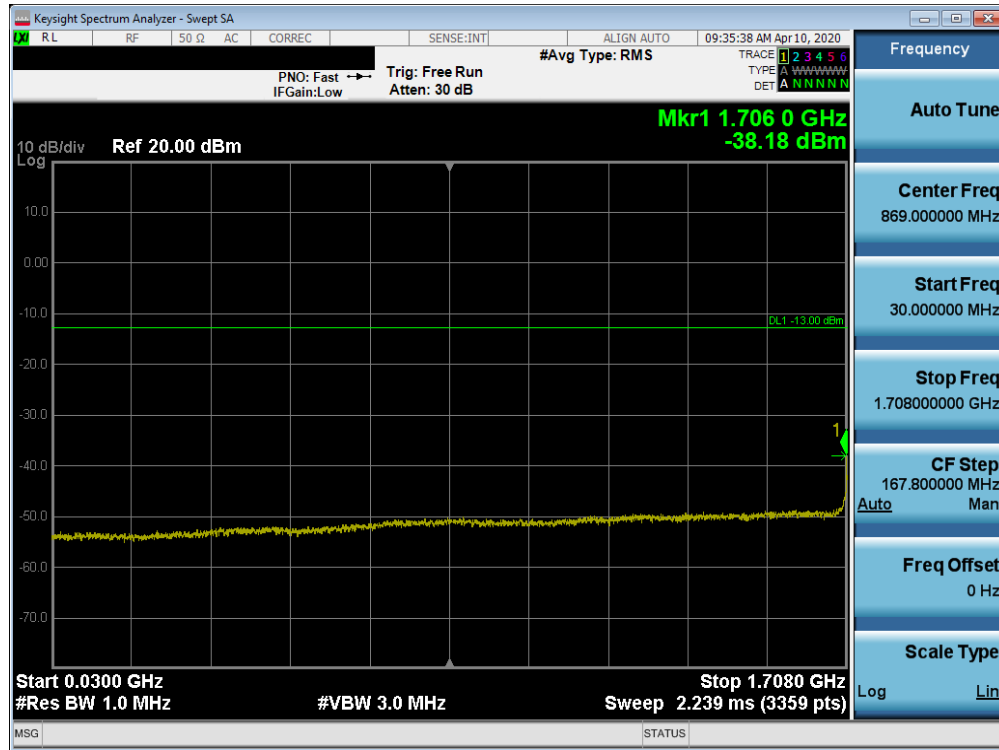
FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 146 of 438



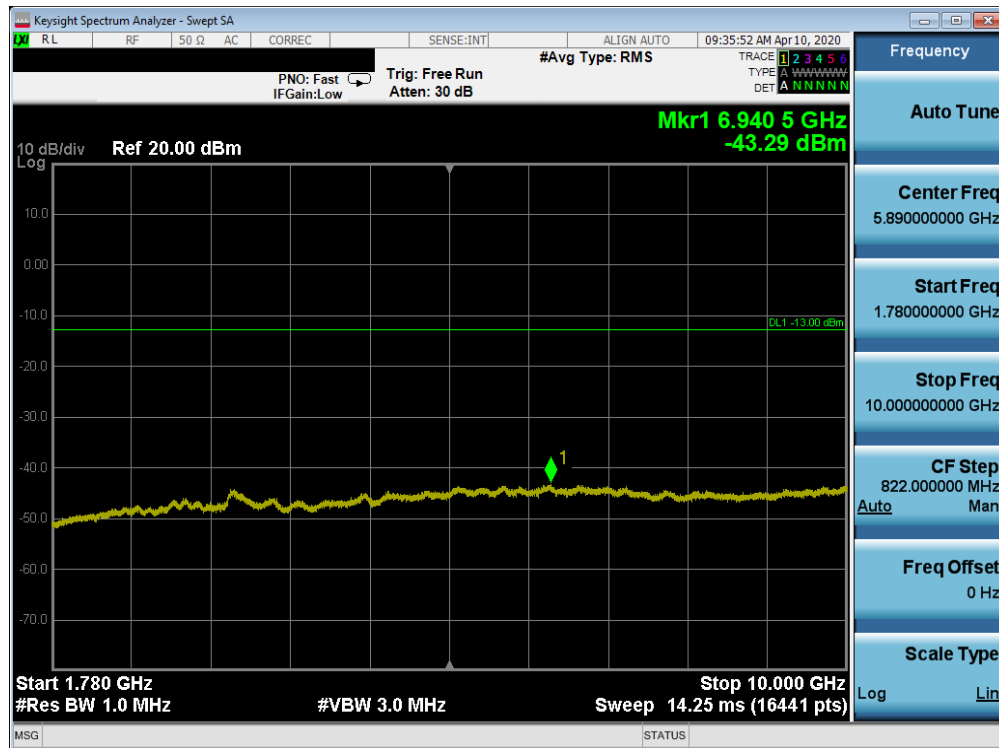
Plot 7-253. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 147 of 438

Band 66/4

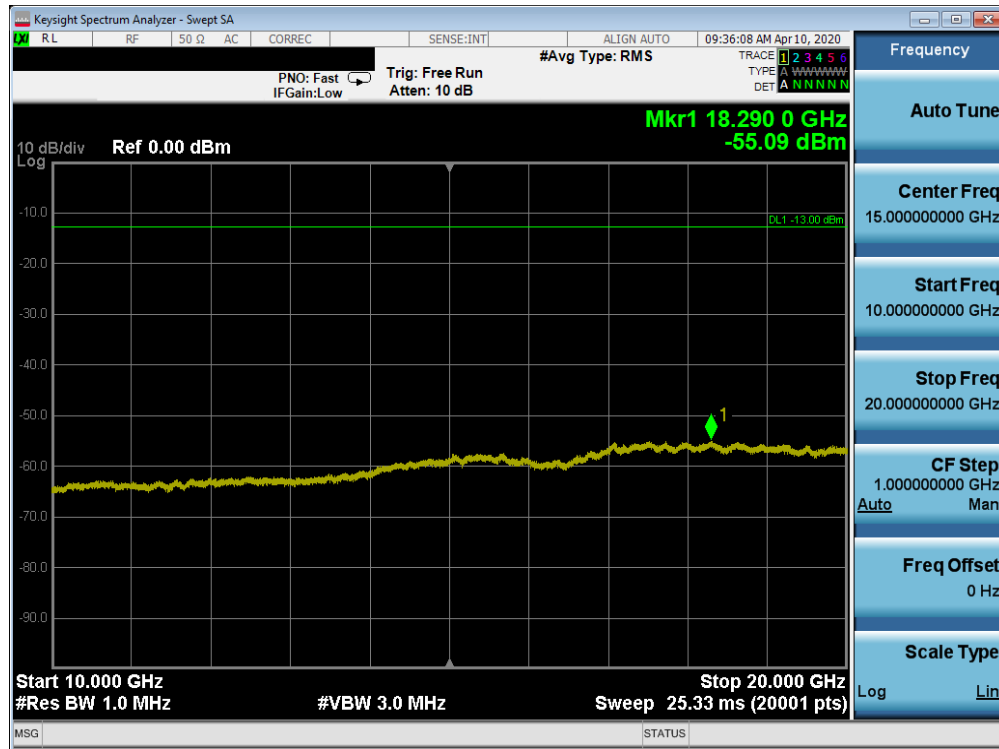


Plot 7-254. Conducted Spurious Plot (Band 66/4 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

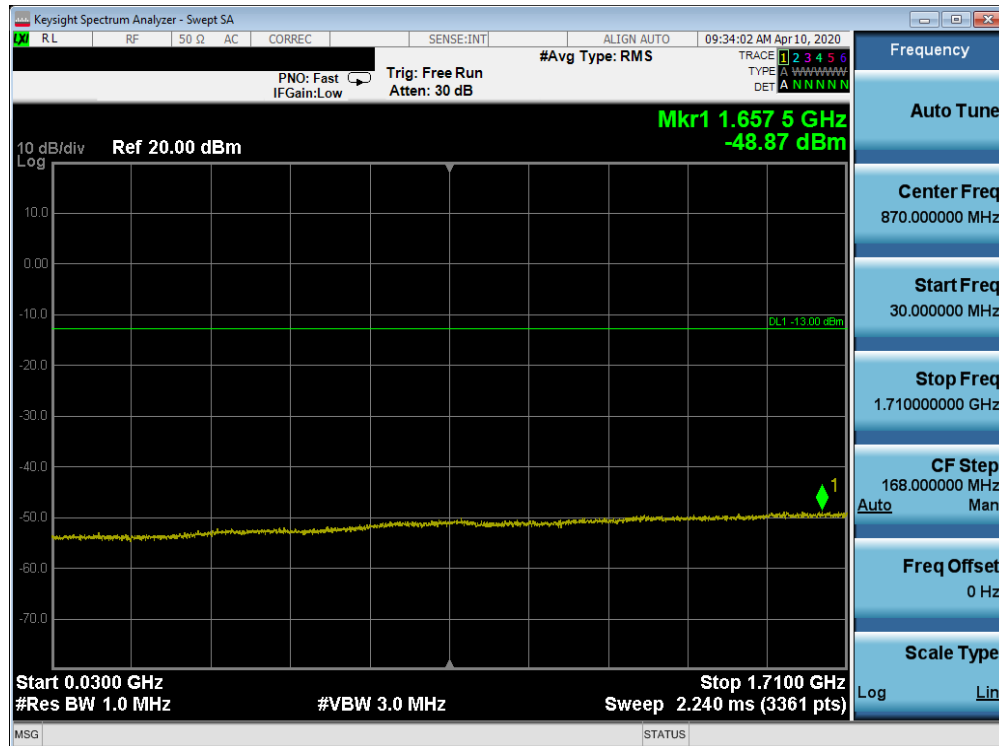


Plot 7-255. Conducted Spurious Plot (Band 66/4 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 148 of 438

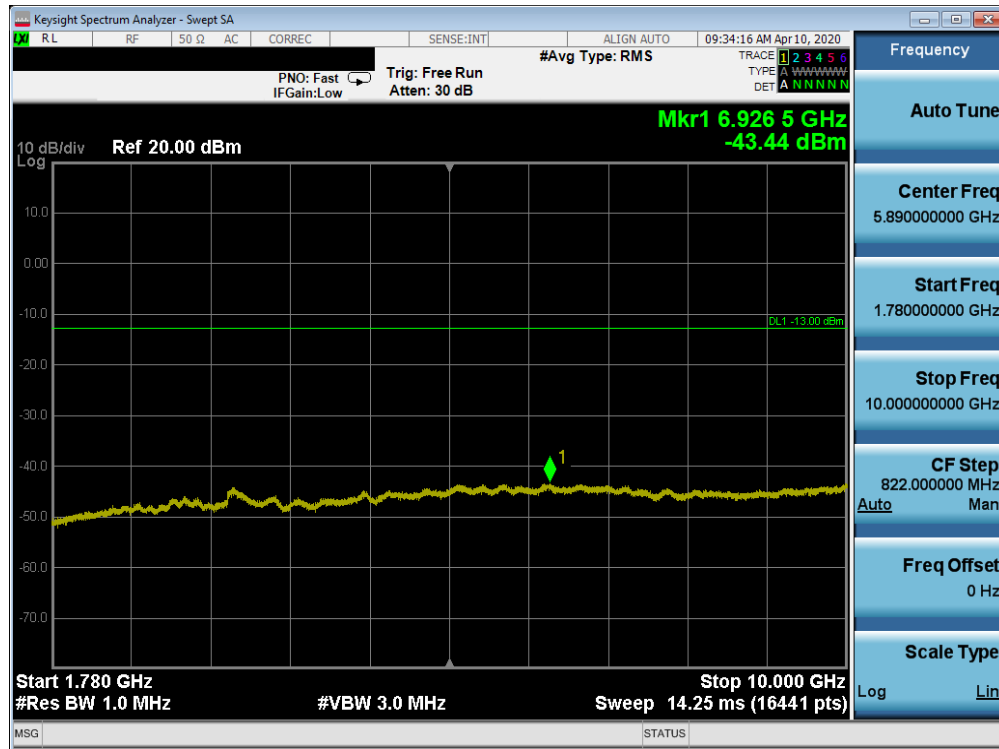


Plot 7-256. Conducted Spurious Plot (Band 66/4 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

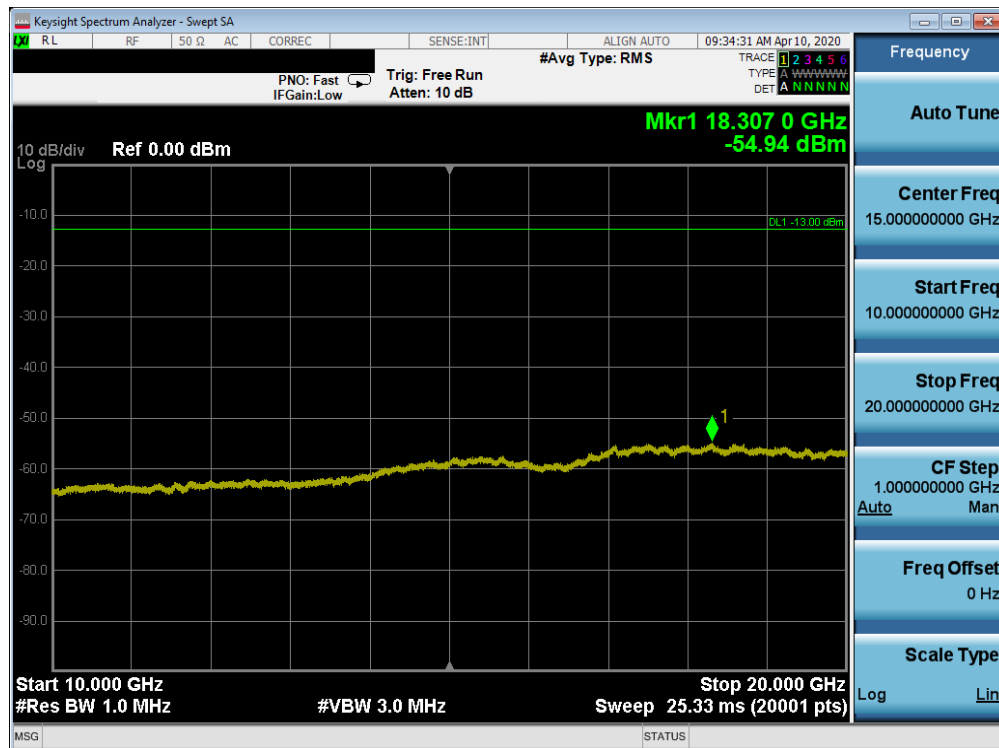


Plot 7-257. Conducted Spurious Plot (Band 66/4 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 149 of 438

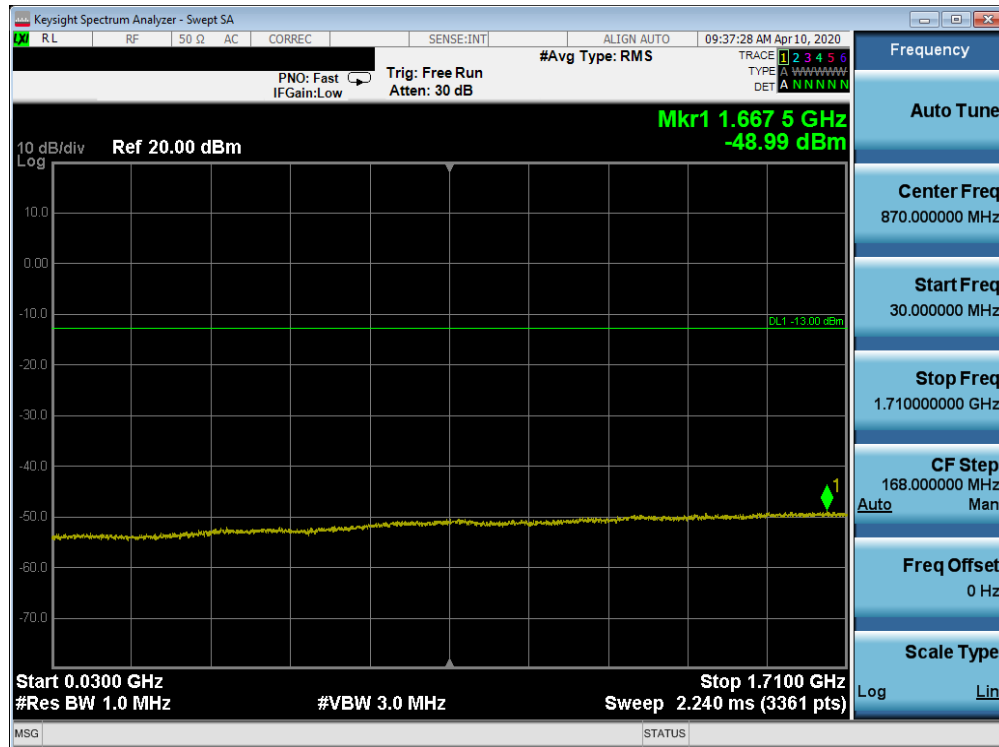


Plot 7-258. Conducted Spurious Plot (Band 66/4 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

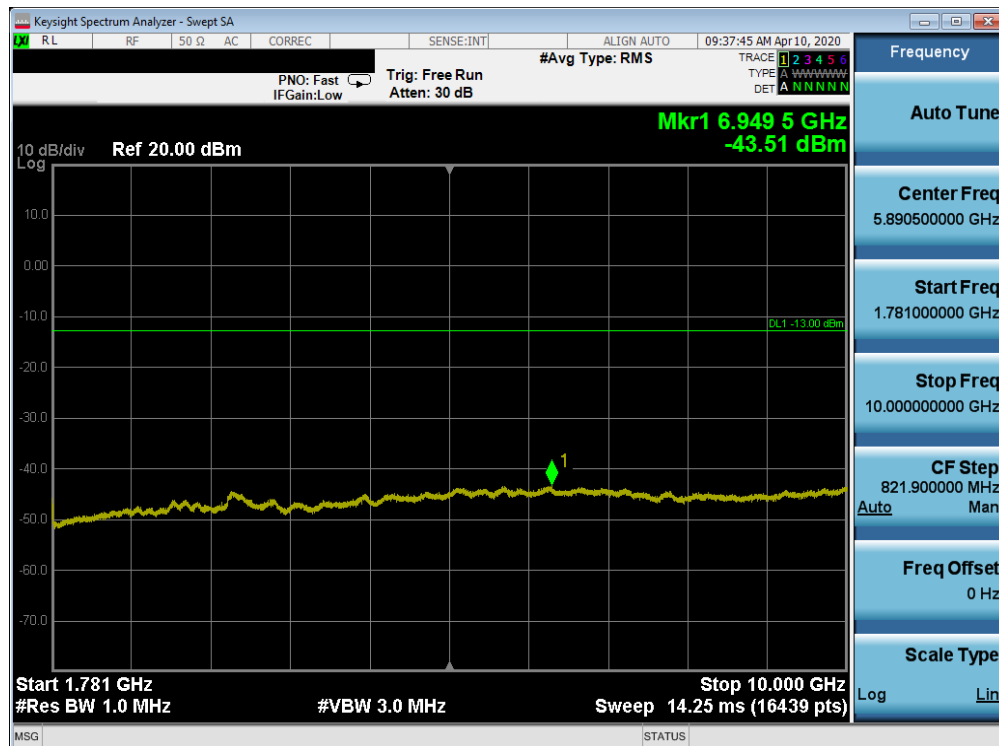


Plot 7-259. Conducted Spurious Plot (Band 66/4 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 150 of 438

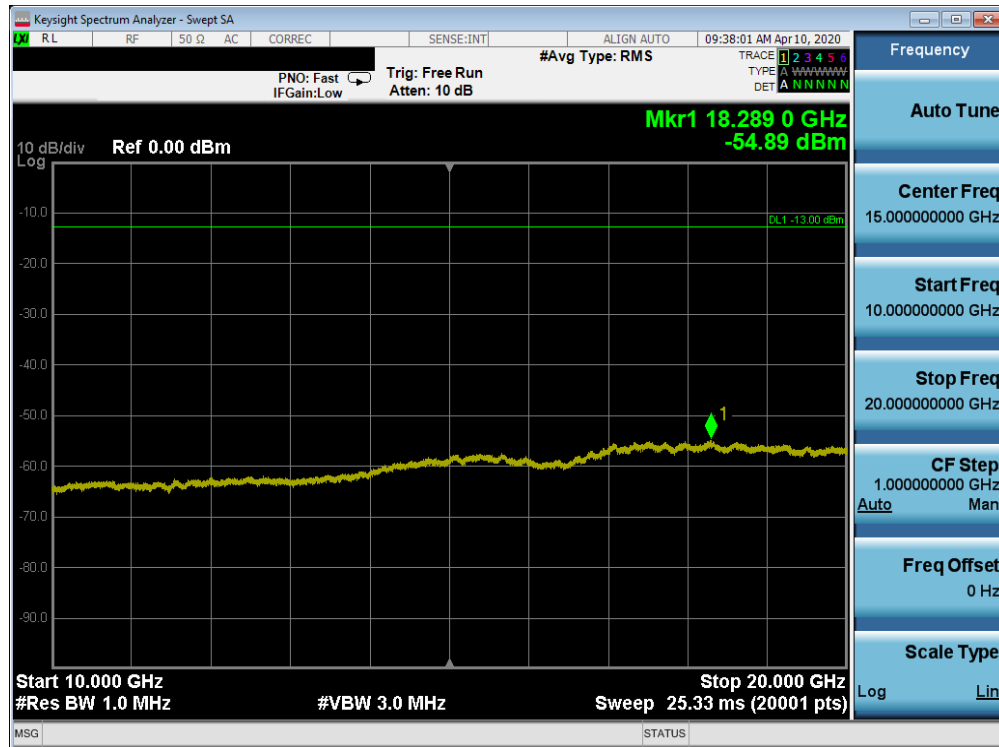


Plot 7-260. Conducted Spurious Plot (Band 66/4 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-261. Conducted Spurious Plot (Band 66/4 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

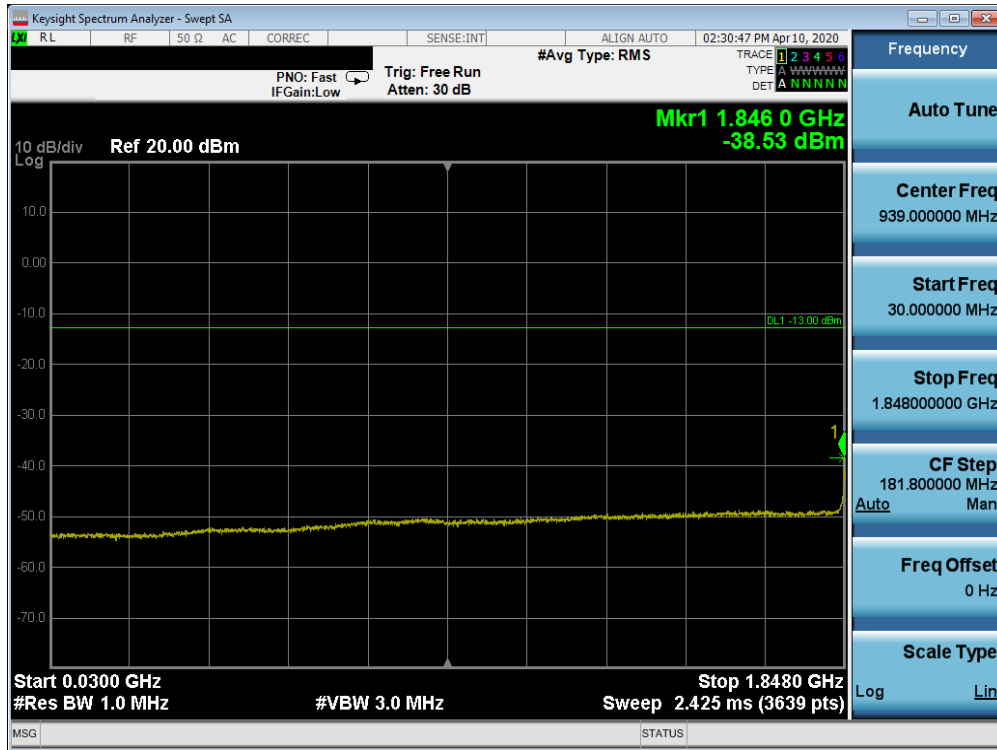
FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 151 of 438



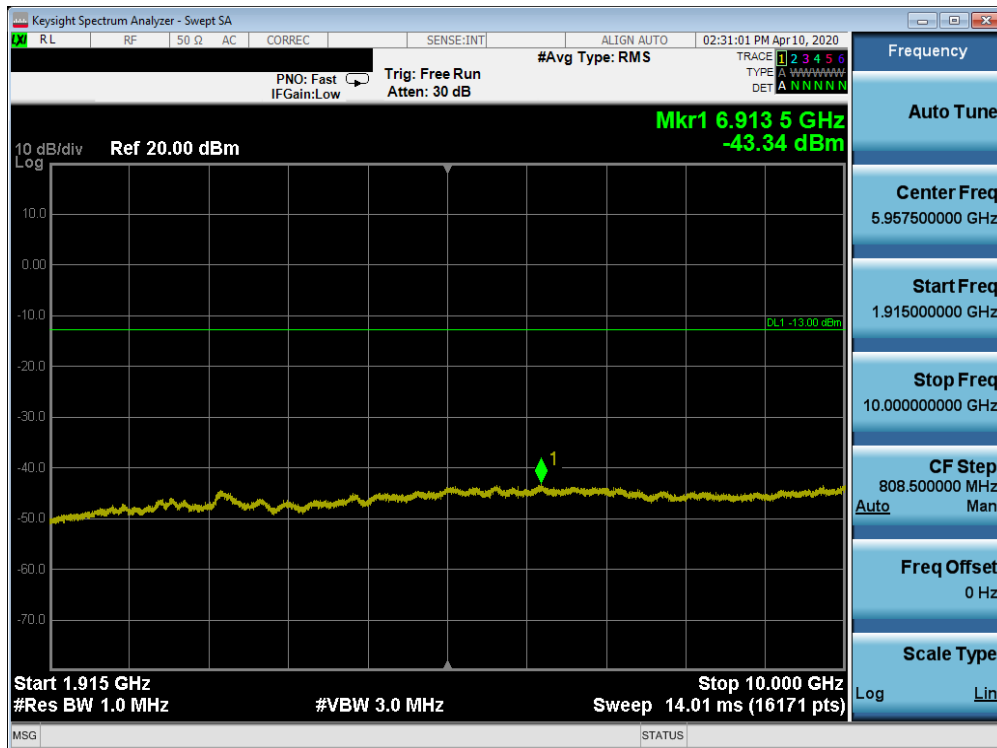
Plot 7-262. Conducted Spurious Plot (Band 66/4 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 152 of 438

Band 25/2

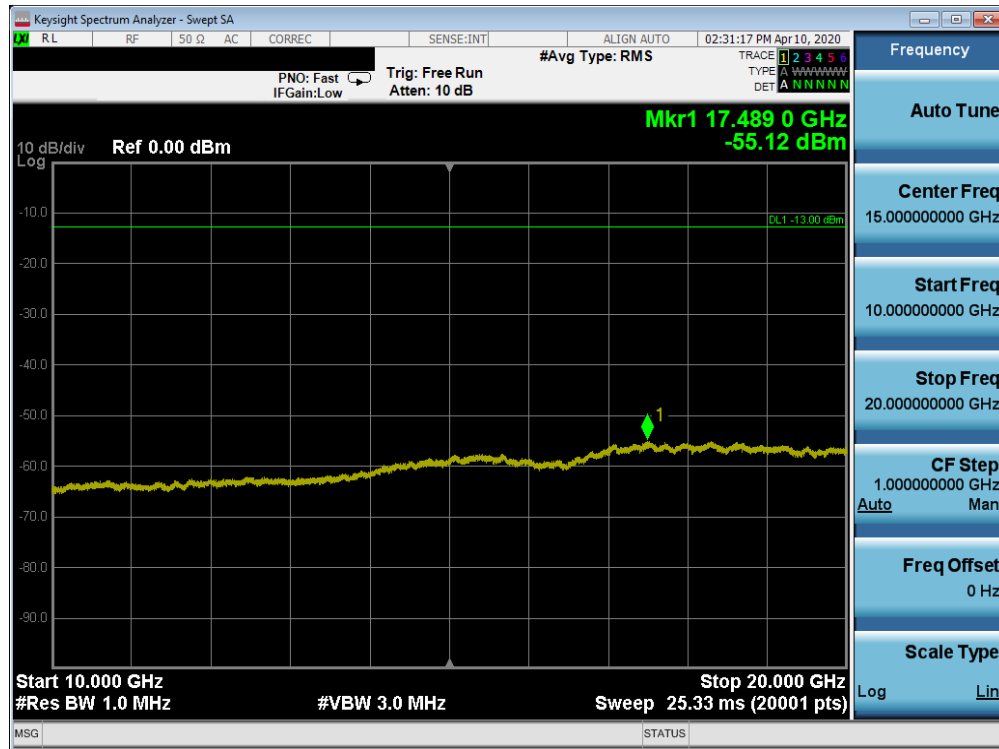


Plot 7-263. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

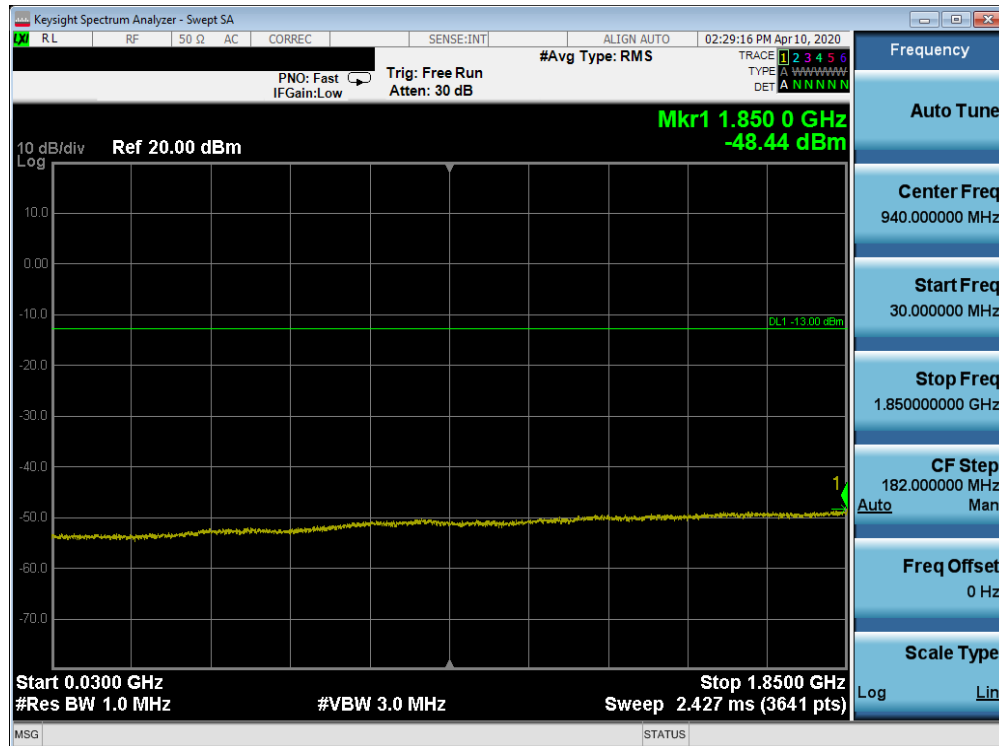


Plot 7-264. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 153 of 438

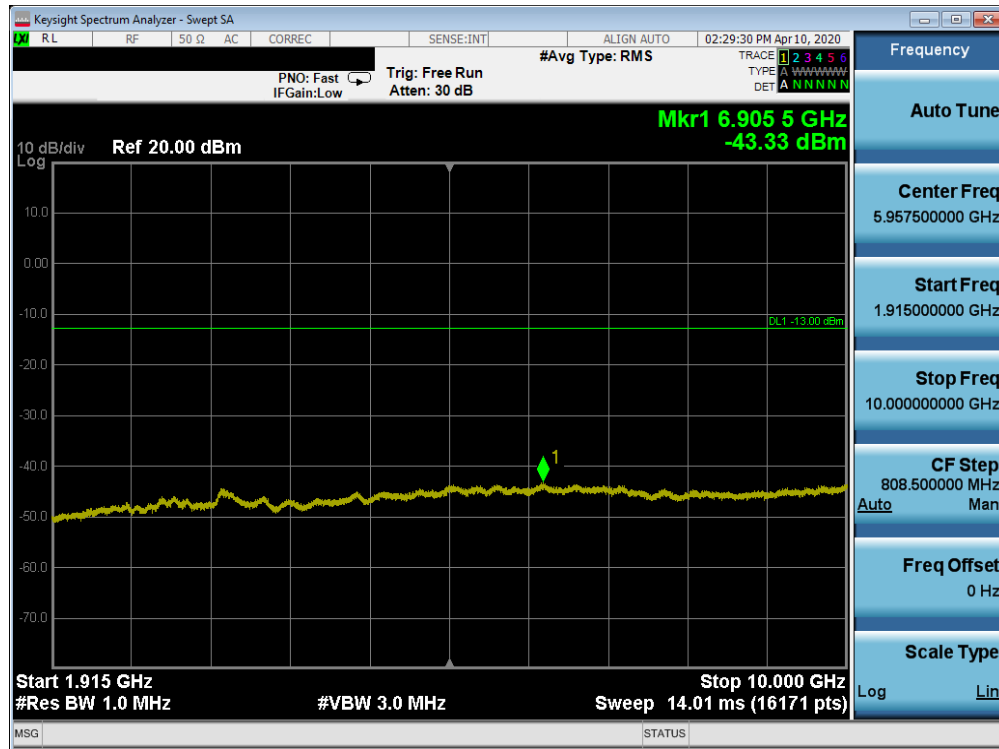


Plot 7-265. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

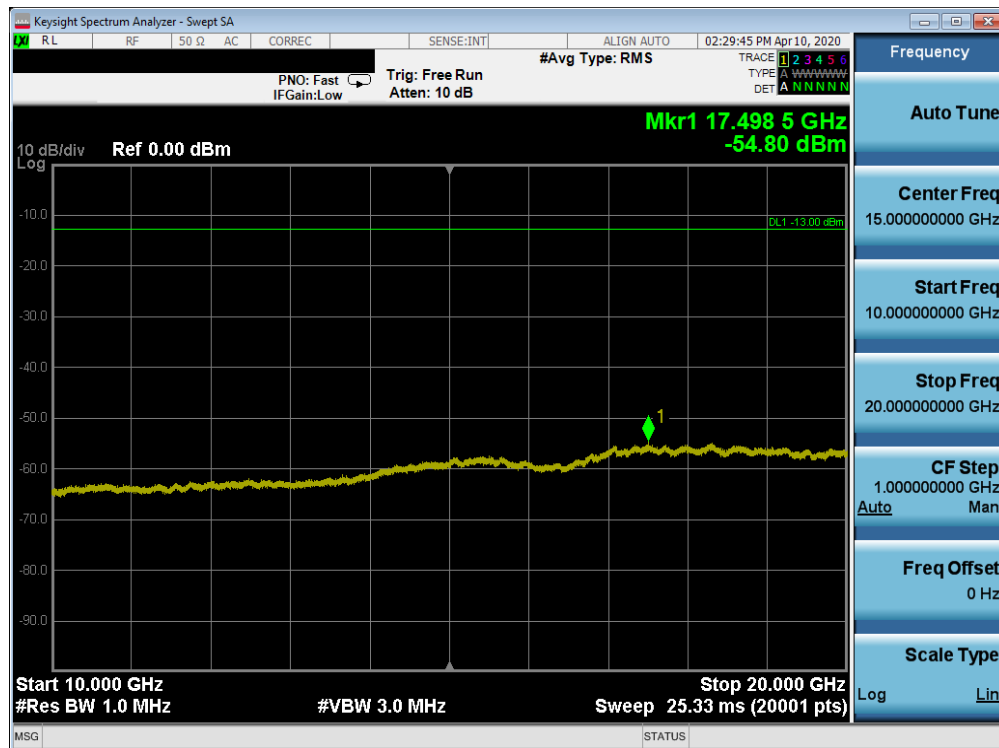


Plot 7-266. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 154 of 438

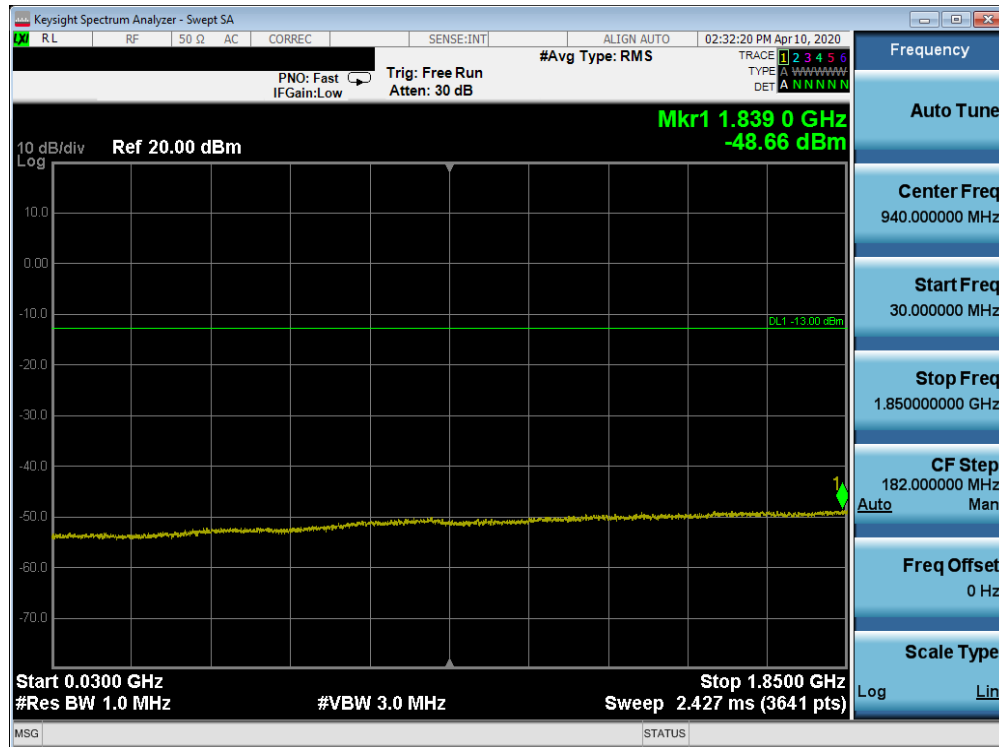


Plot 7-267. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

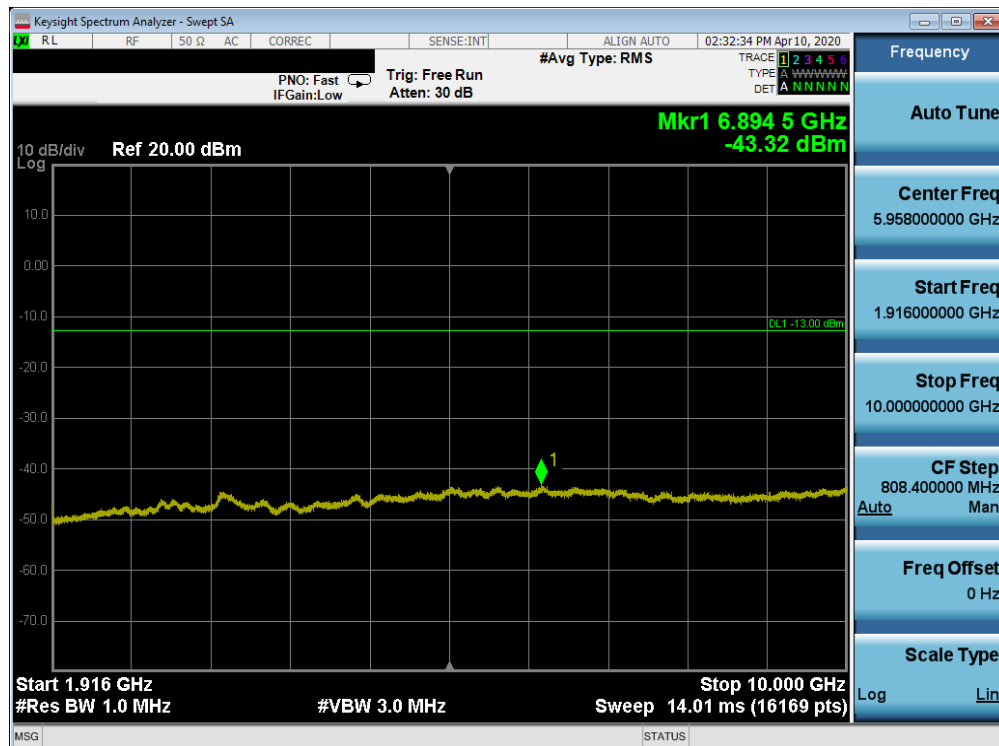


Plot 7-268. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 155 of 438

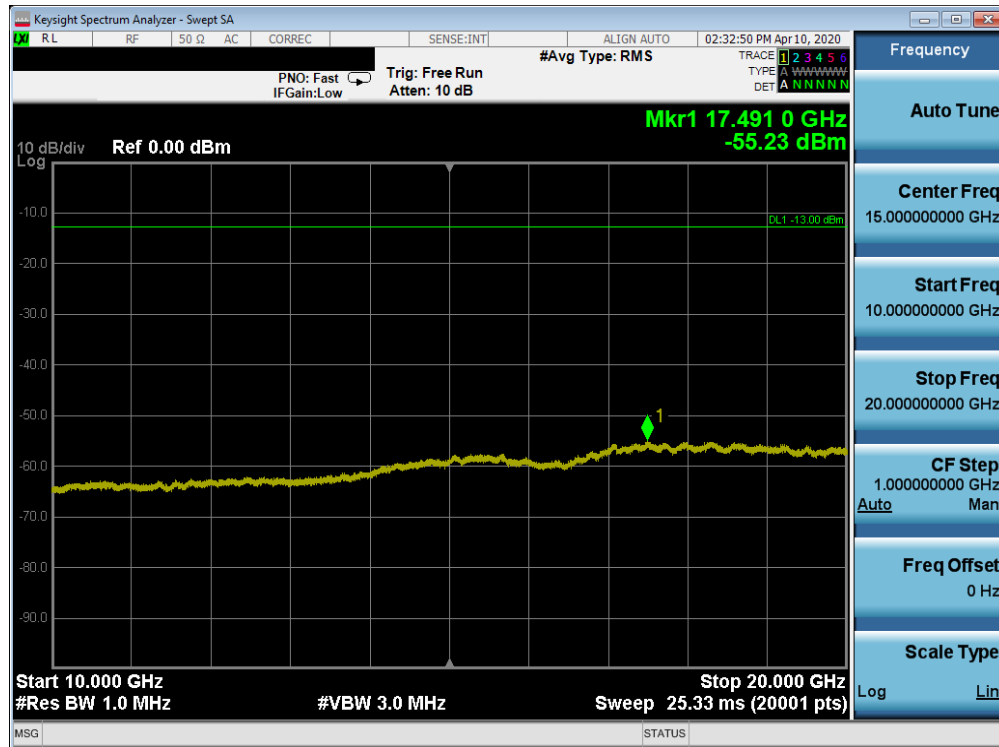


Plot 7-269. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-270. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 156 of 438



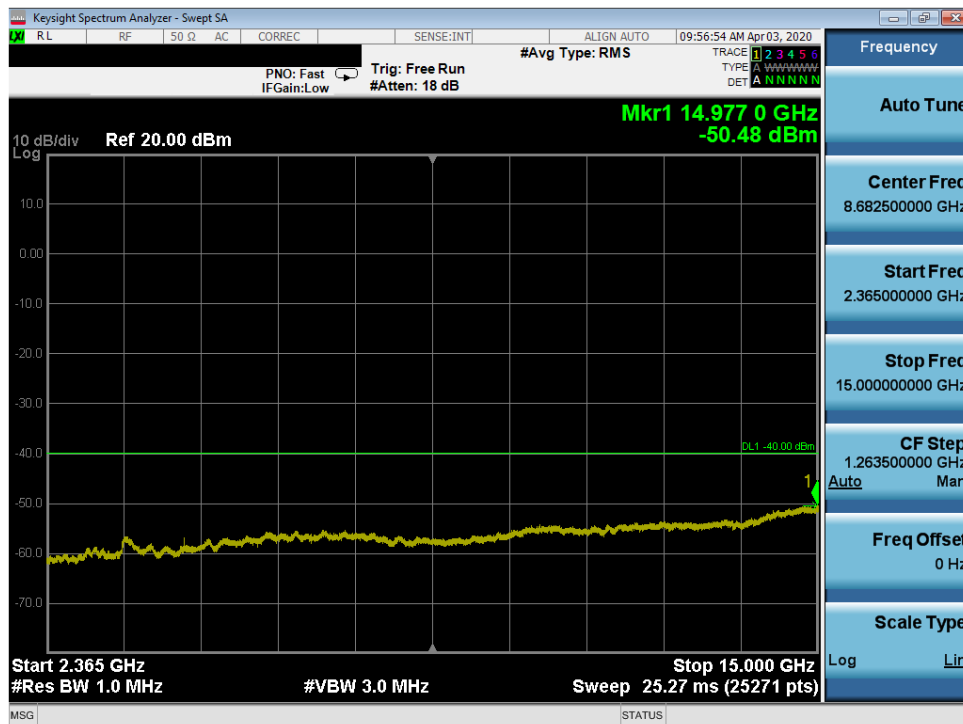
Plot 7-271. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 157 of 438

Band 30

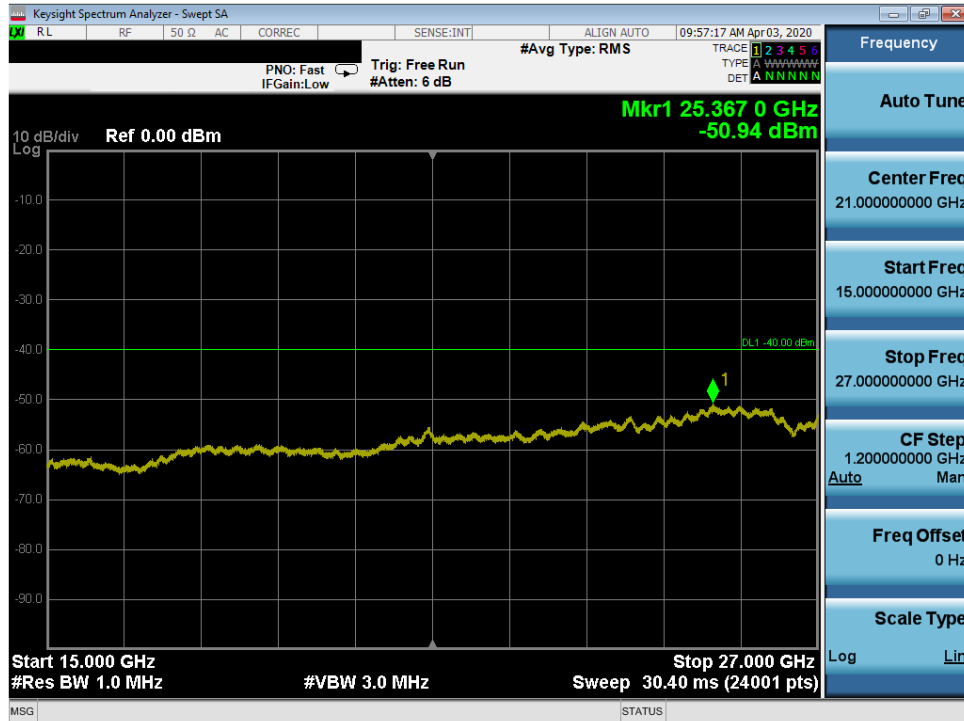


Plot 7-272. Conducted Spurious Plot (Band 30 - 10.0MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-273. Conducted Spurious Plot (Band 30 - 10.0MHz QPSK - RB Size 1, RB Offset 0)

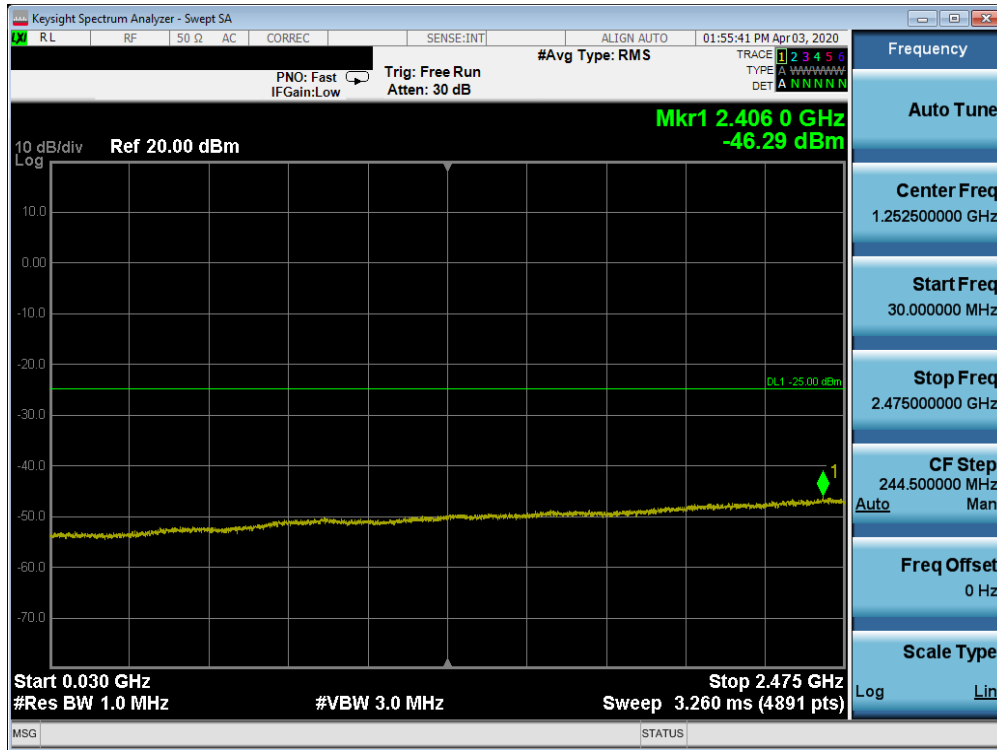
FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 158 of 438



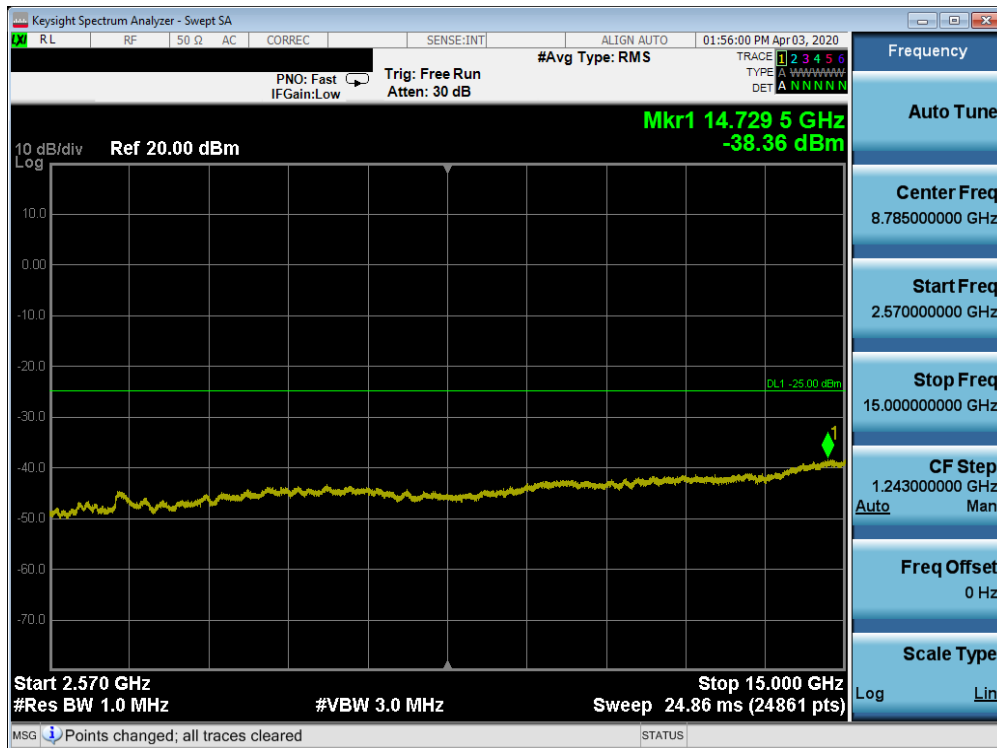
Plot 7-274. Conducted Spurious Plot (Band 30 - 10.0MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 159 of 438

Band 7

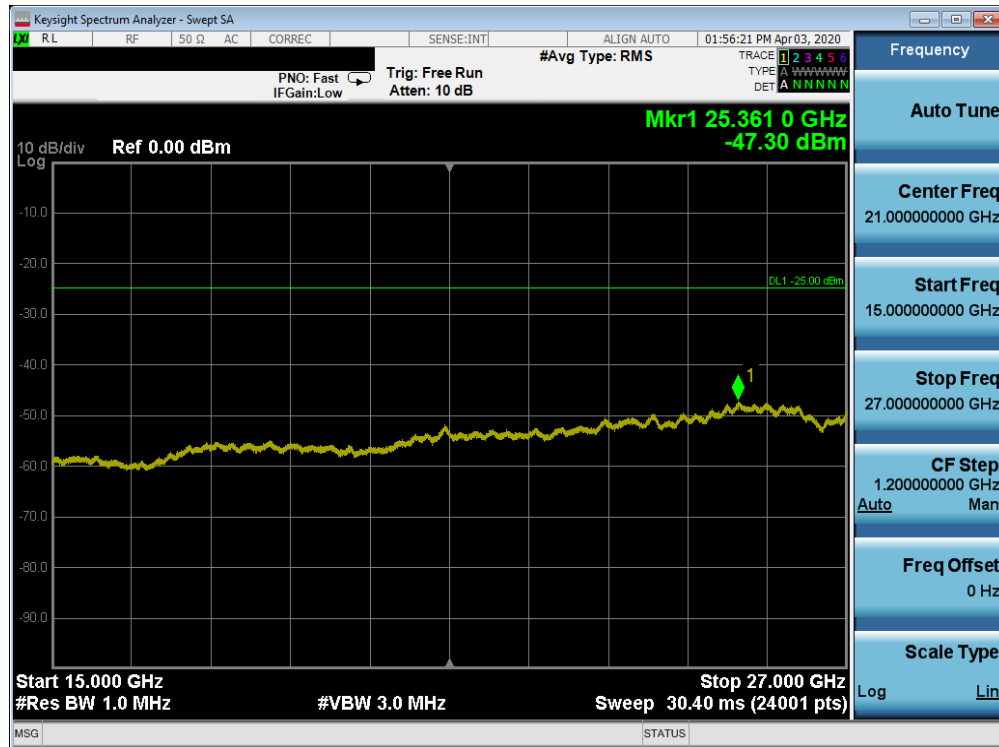


Plot 7-275. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

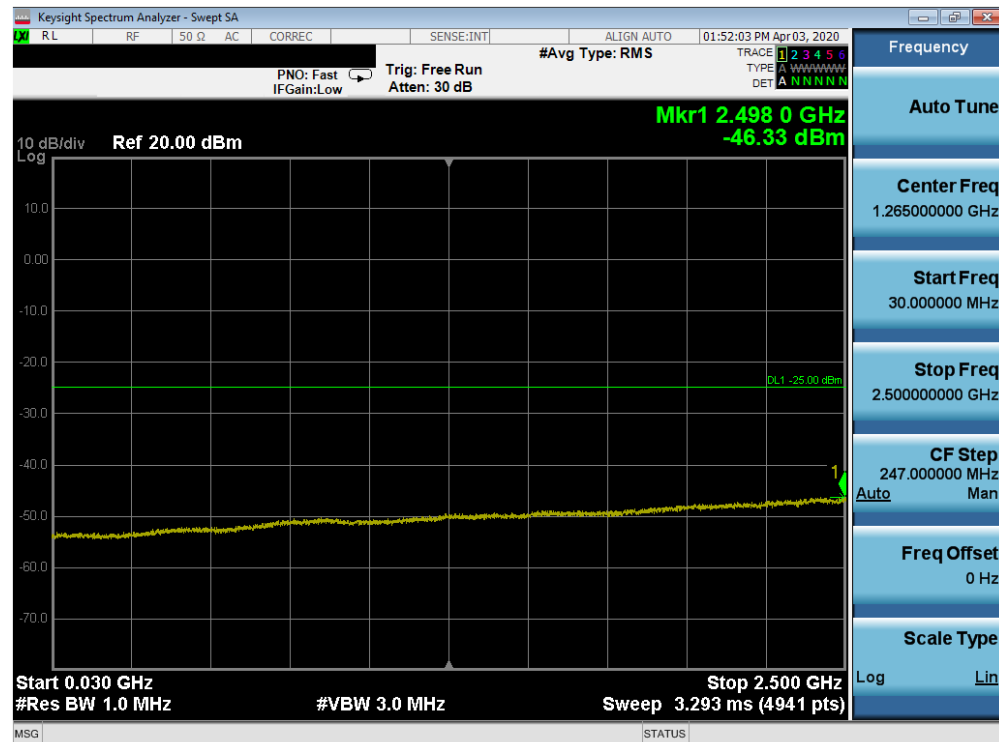


Plot 7-276. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 160 of 438

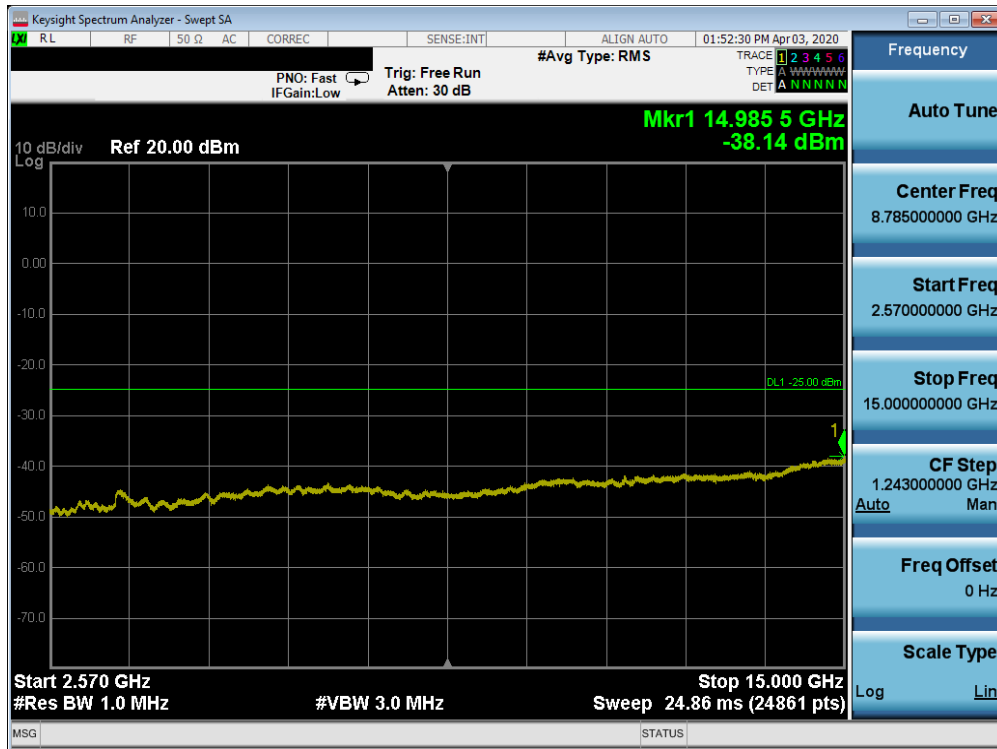


Plot 7-277. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

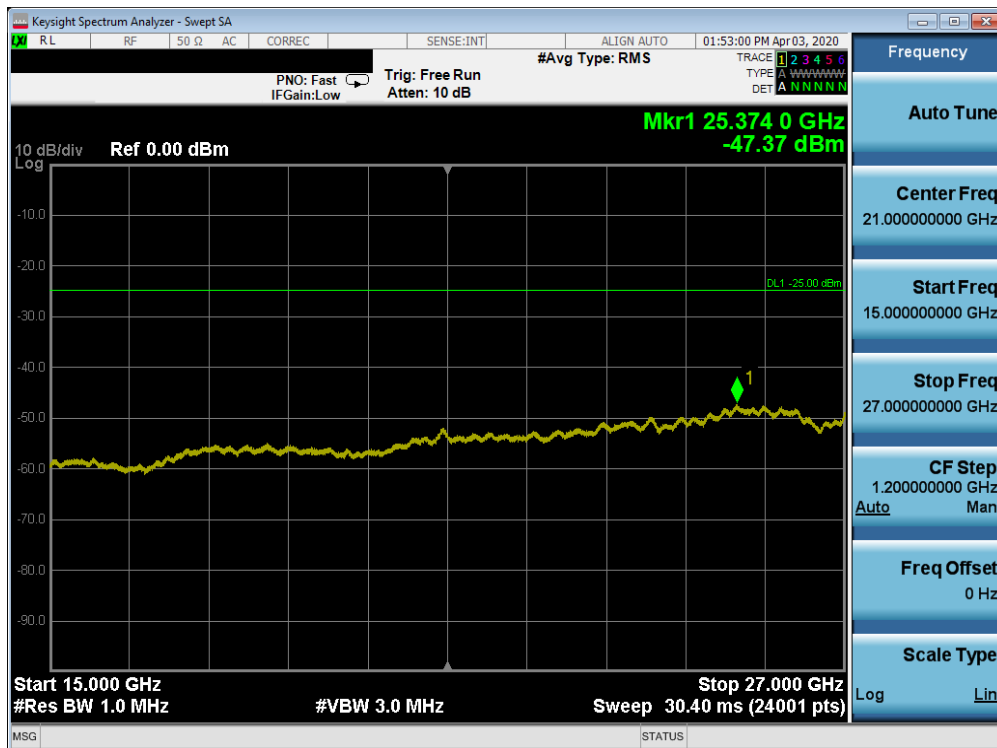


Plot 7-278. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 161 of 438

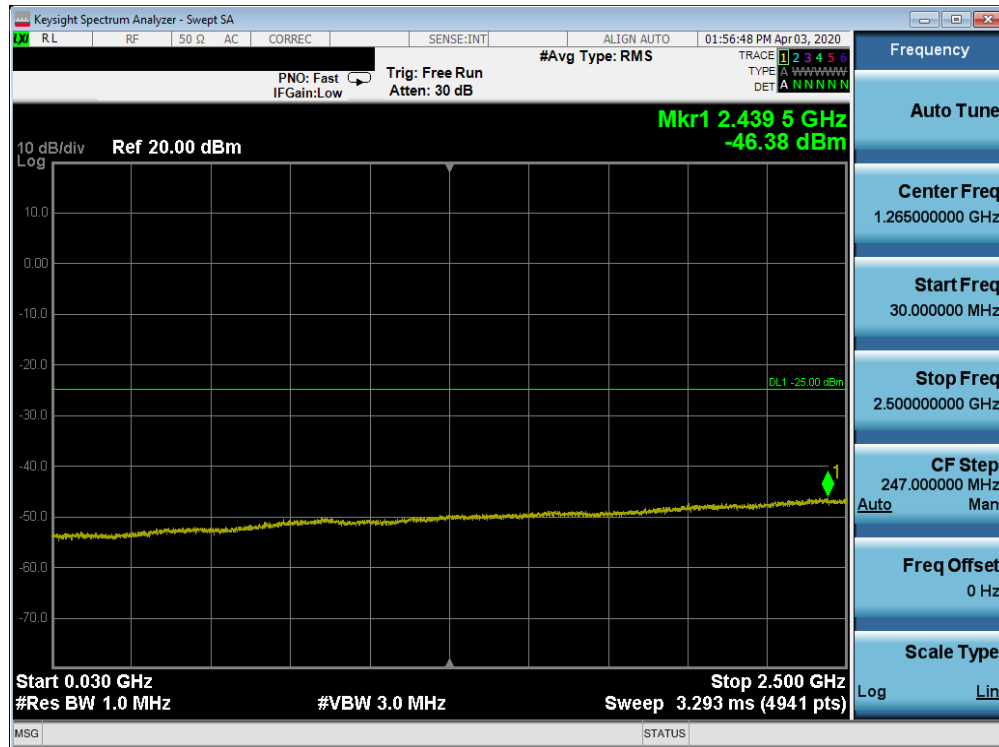


Plot 7-279. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

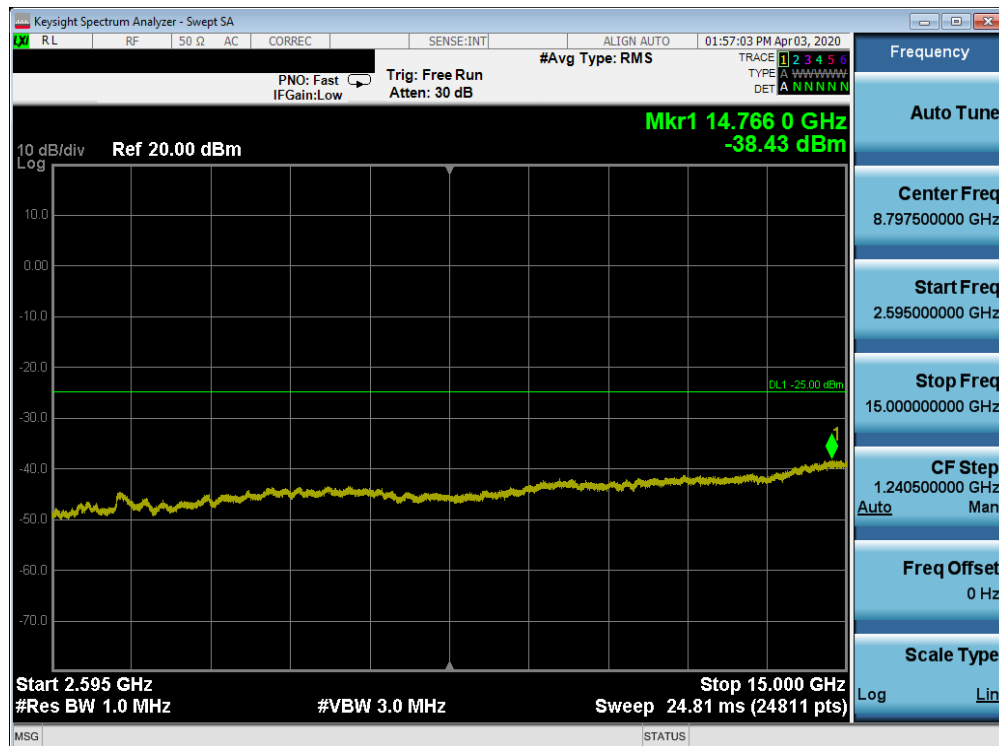


Plot 7-280. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 162 of 438

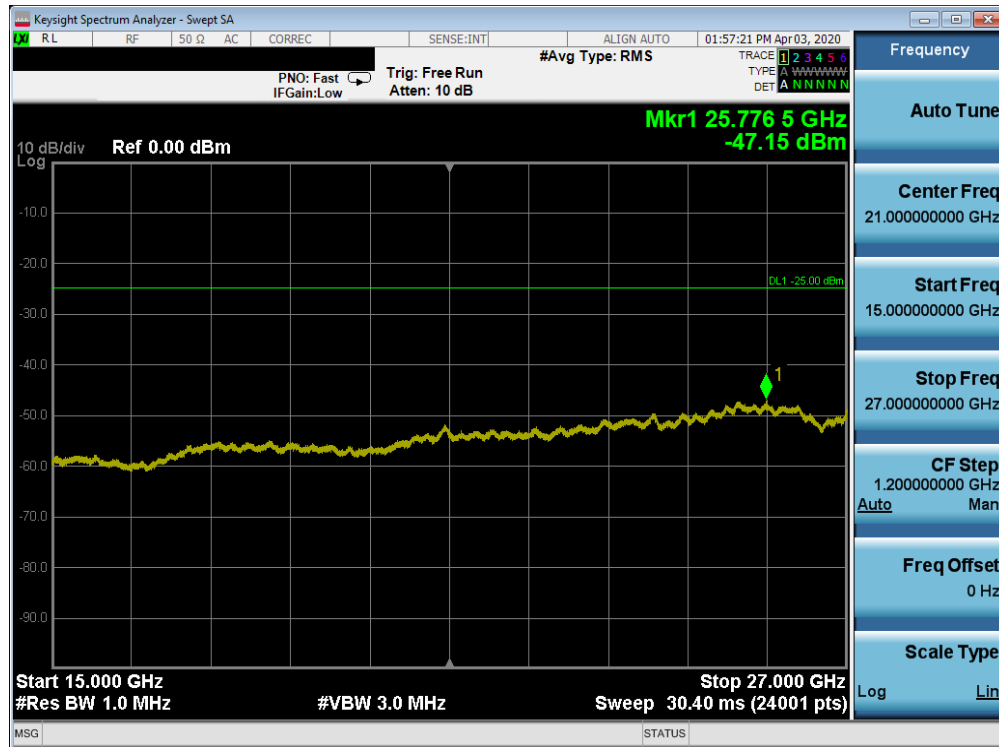


Plot 7-281. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-282. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

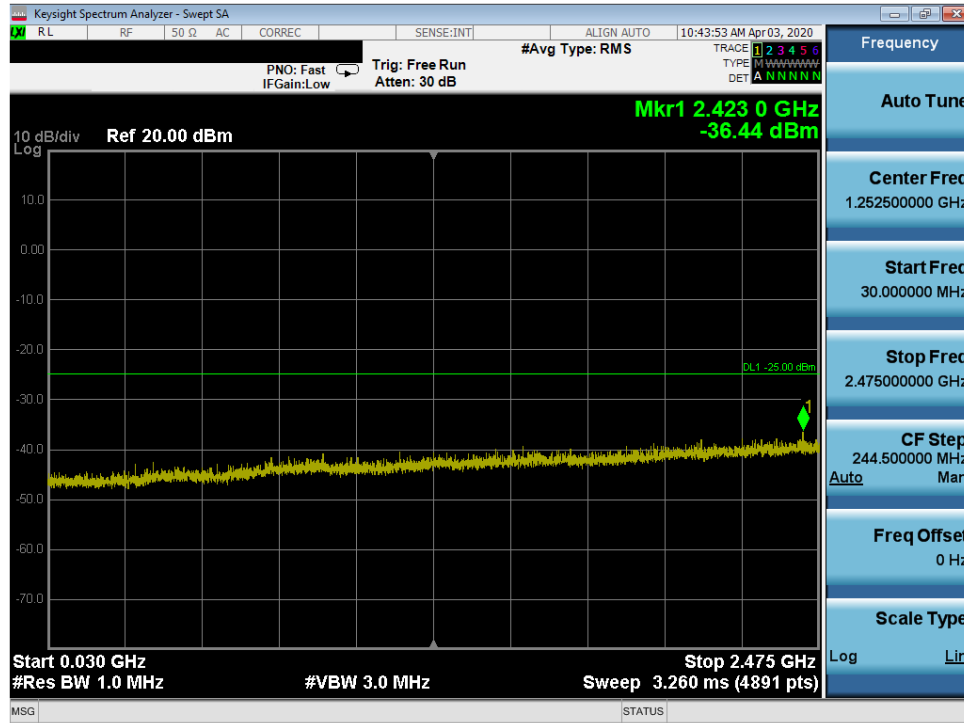
FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 163 of 438



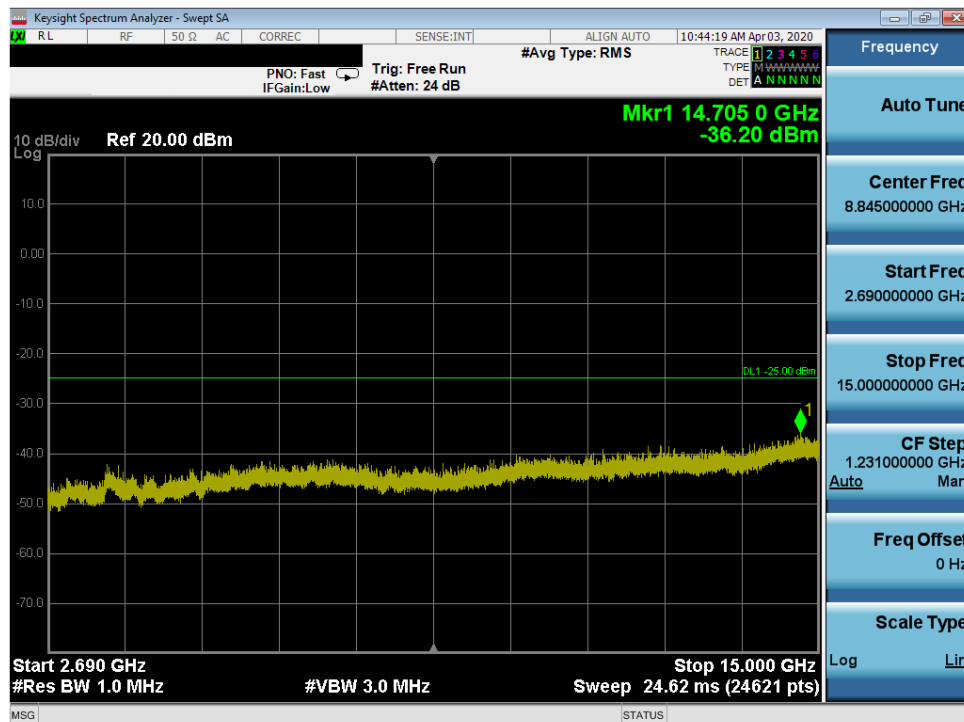
Plot 7-283. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 164 of 438

Band 41

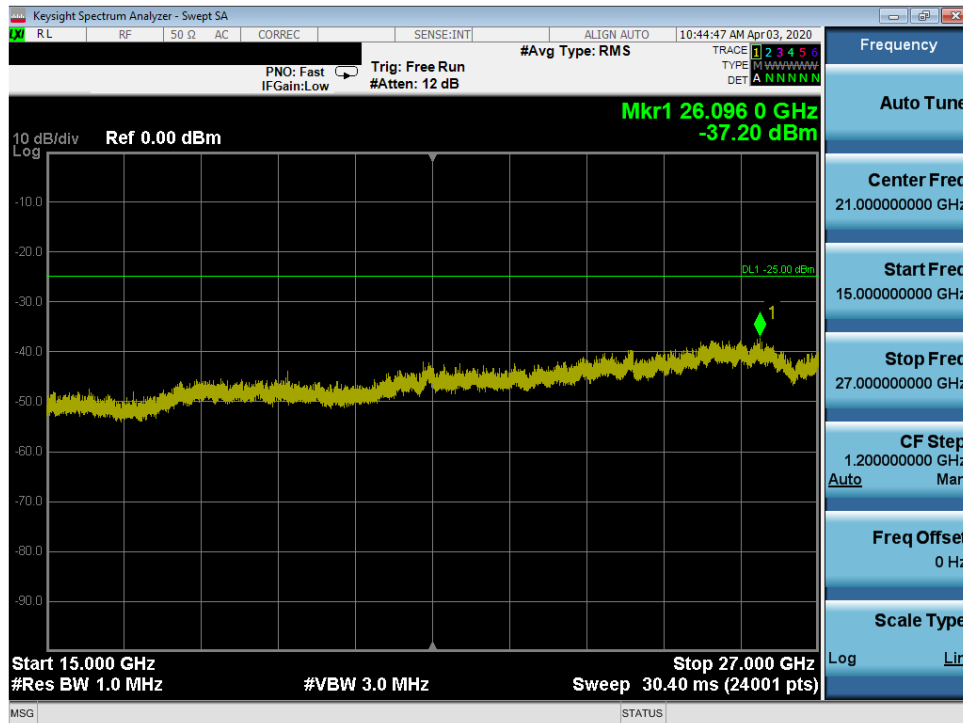


Plot 7-284. Conducted Spurious Plot (Band 41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

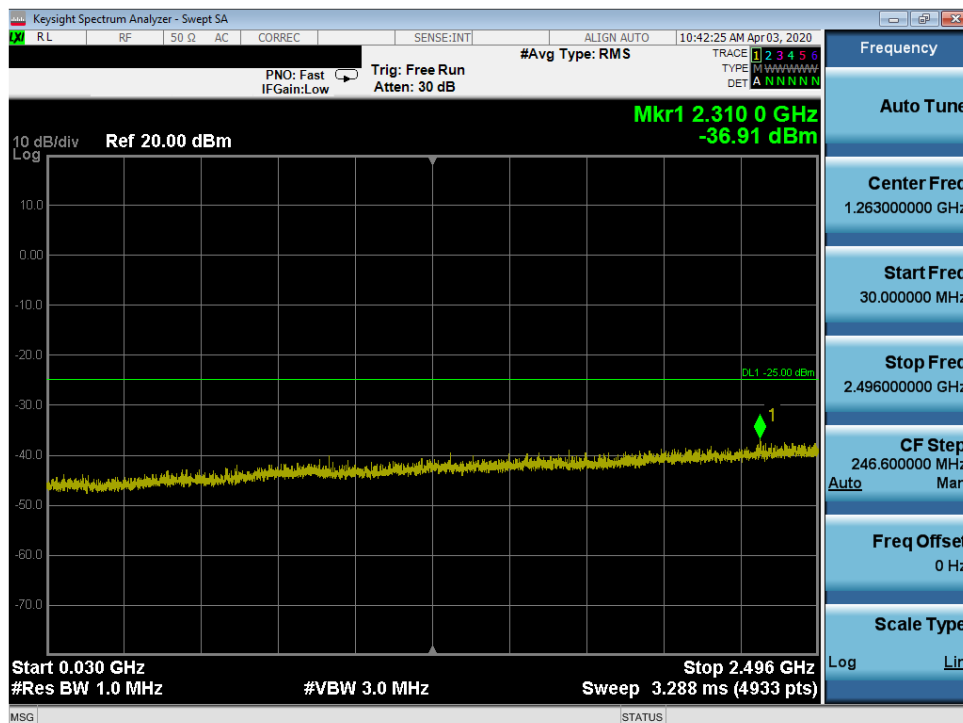


Plot 7-285. Conducted Spurious Plot (Band 41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFG900UM	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset	Page 165 of 438

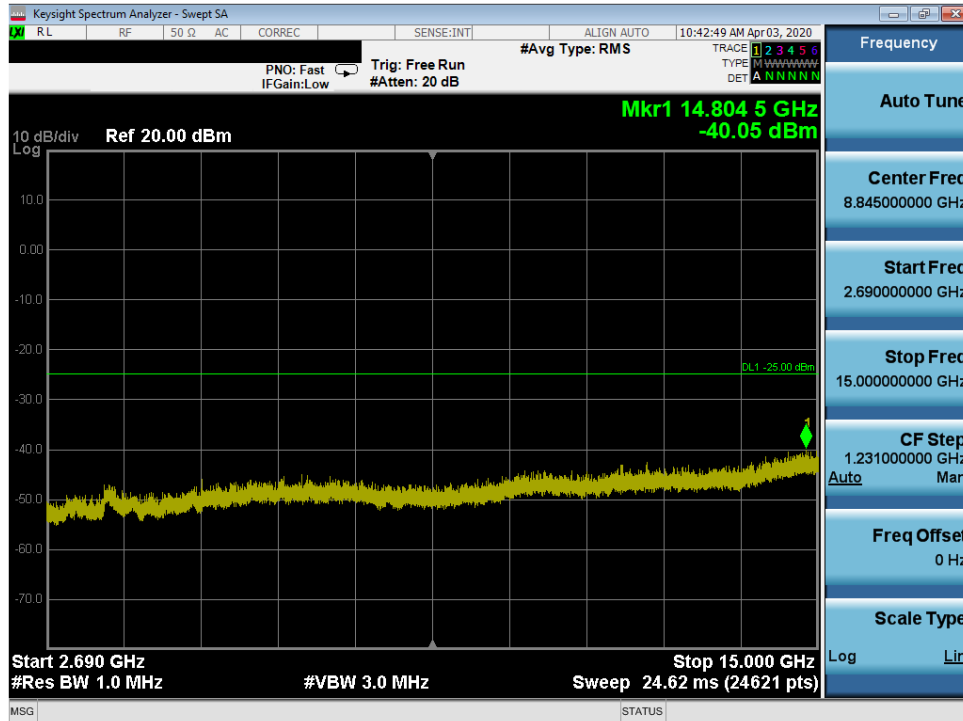


Plot 7-286. Conducted Spurious Plot (Band 41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

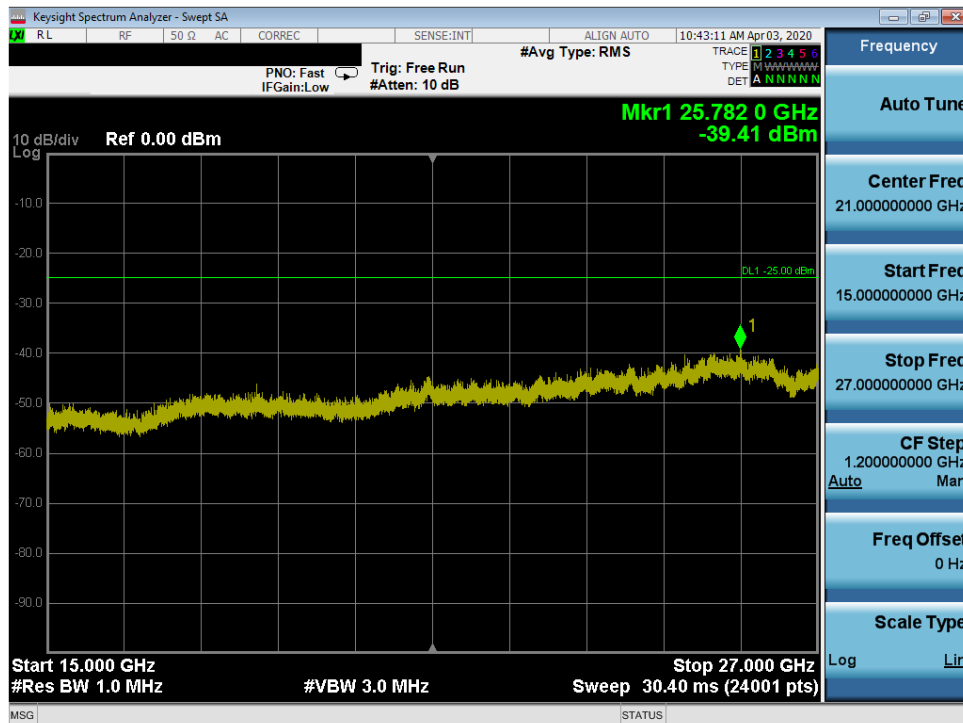


Plot 7-287. Conducted Spurious Plot (Band 41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset	Page 166 of 438

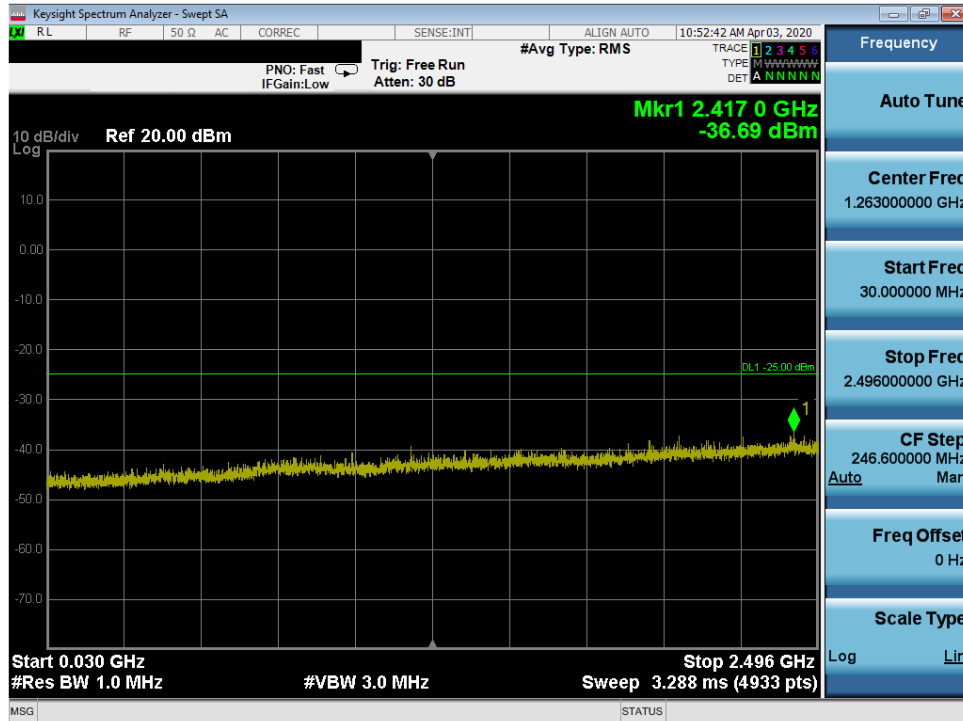


Plot 7-288. Conducted Spurious Plot (Band 41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

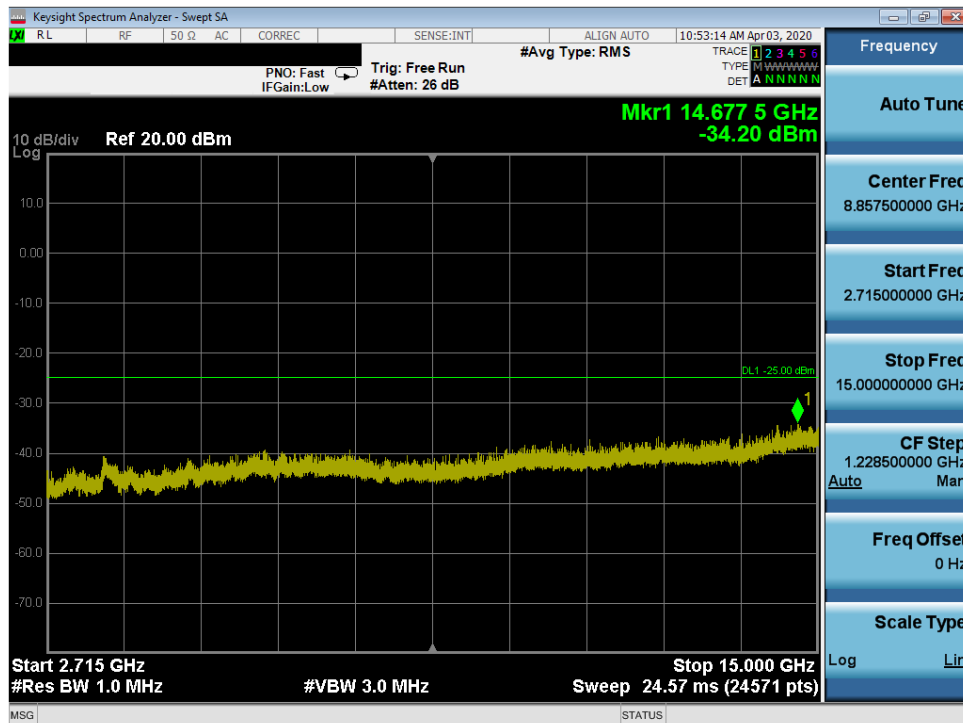


Plot 7-289. Conducted Spurious Plot (Band 41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 167 of 438

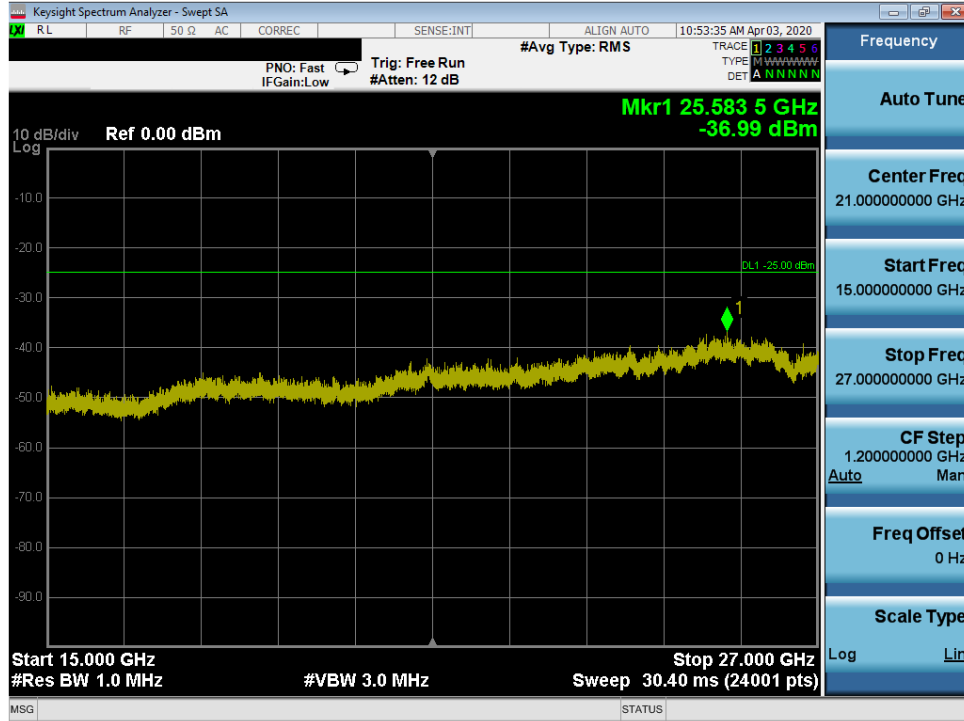


Plot 7-290. Conducted Spurious Plot (Band 41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-291. Conducted Spurious Plot (Band 41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

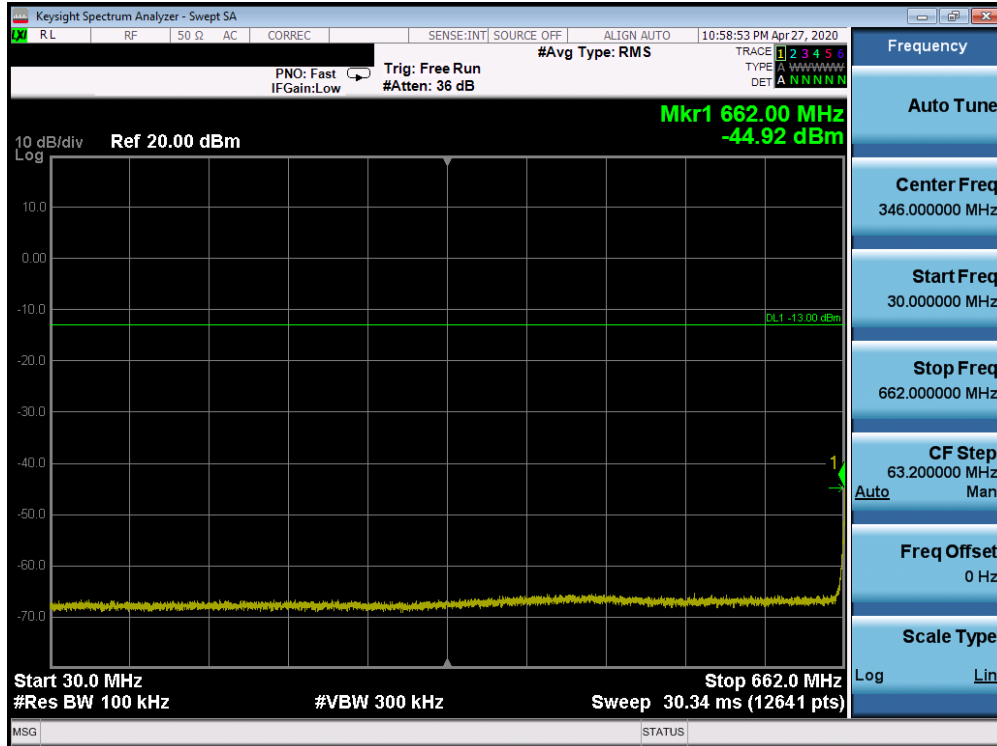
FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 168 of 438



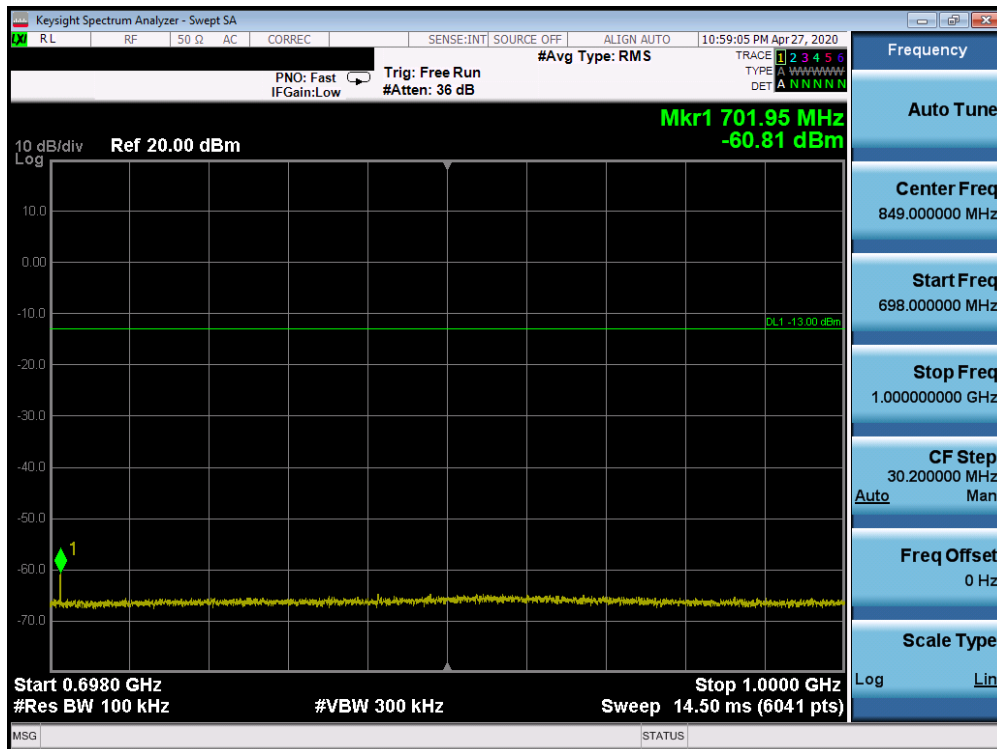
Plot 7-292. Conducted Spurious Plot (Band 41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 169 of 438

5G sub6 n71

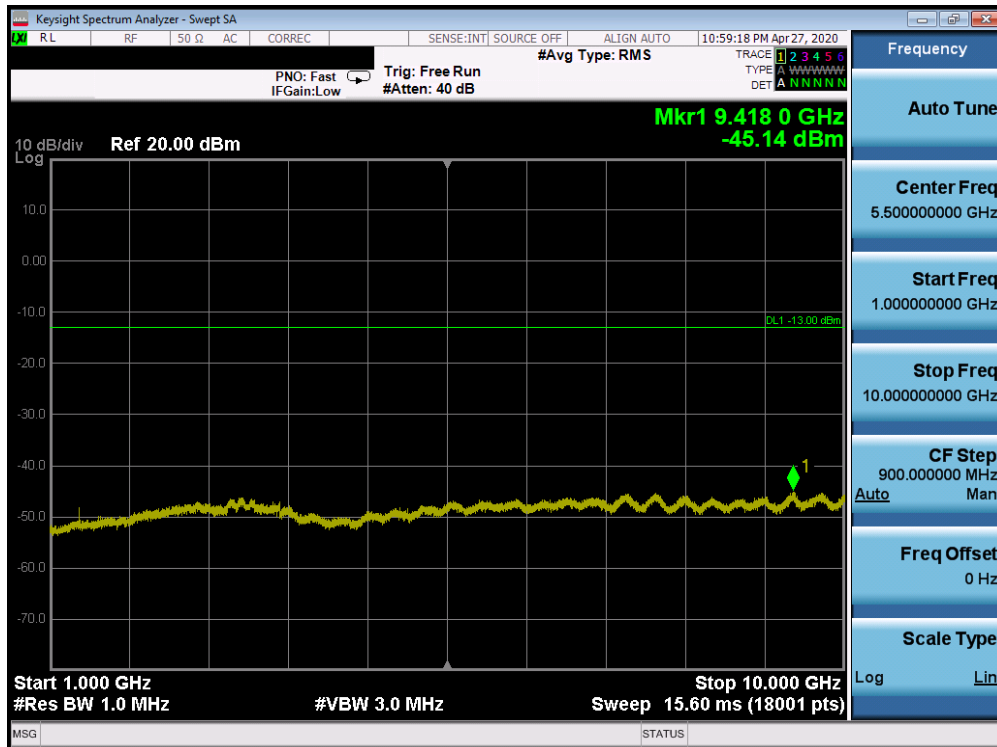


Plot 7-293. Conducted Spurious Plot (5G sub6 n71 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

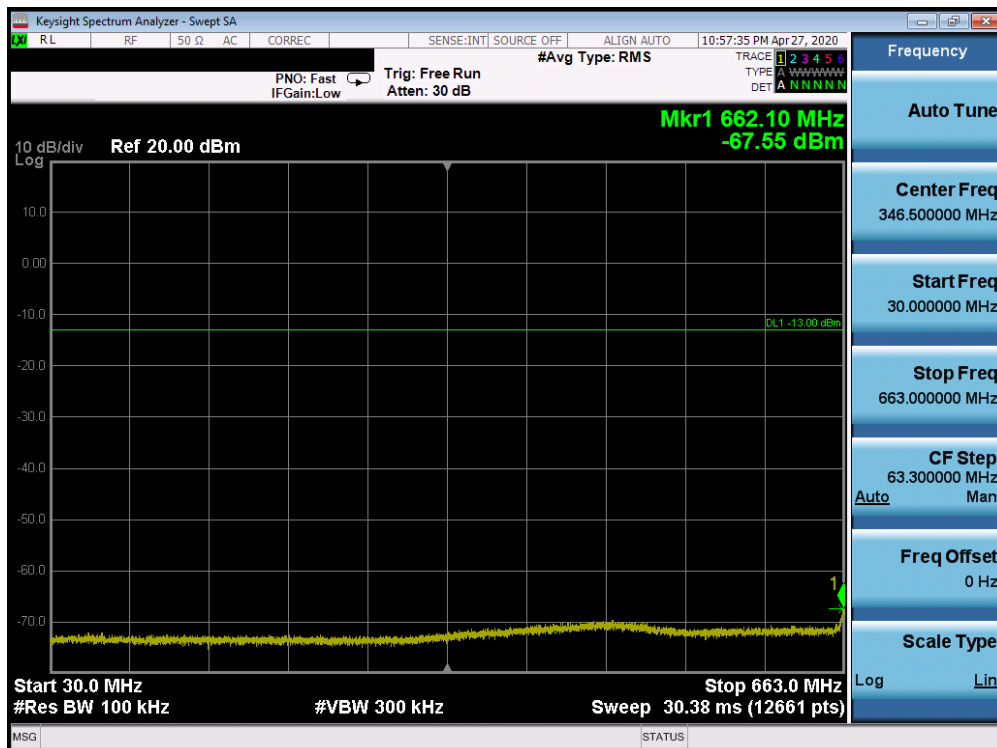


Plot 7-294. Conducted Spurious Plot (5G sub6 n71 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 170 of 438

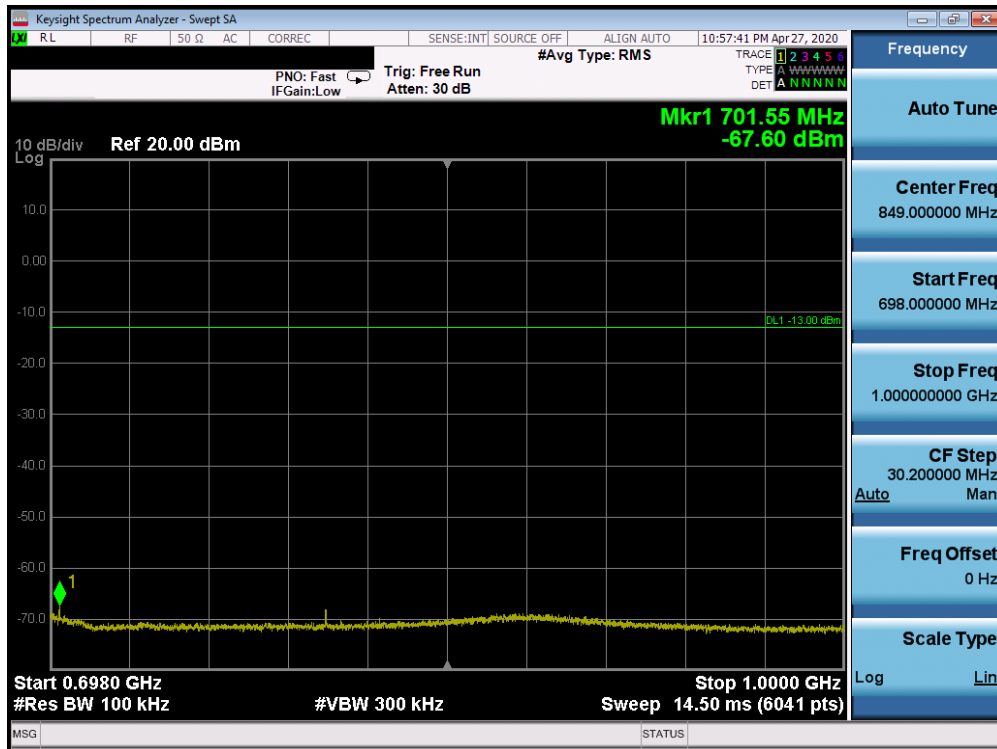


Plot 7-295. Conducted Spurious Plot (5G sub6 n71 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

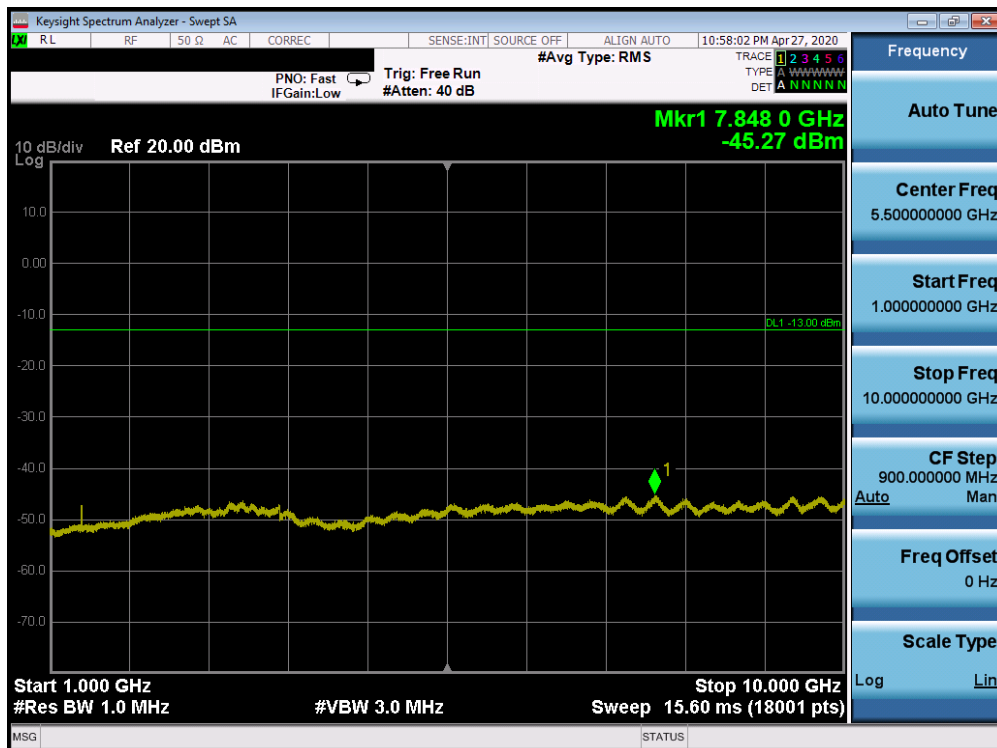


Plot 7-296. Conducted Spurious Plot (5G sub6 n71 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 171 of 438

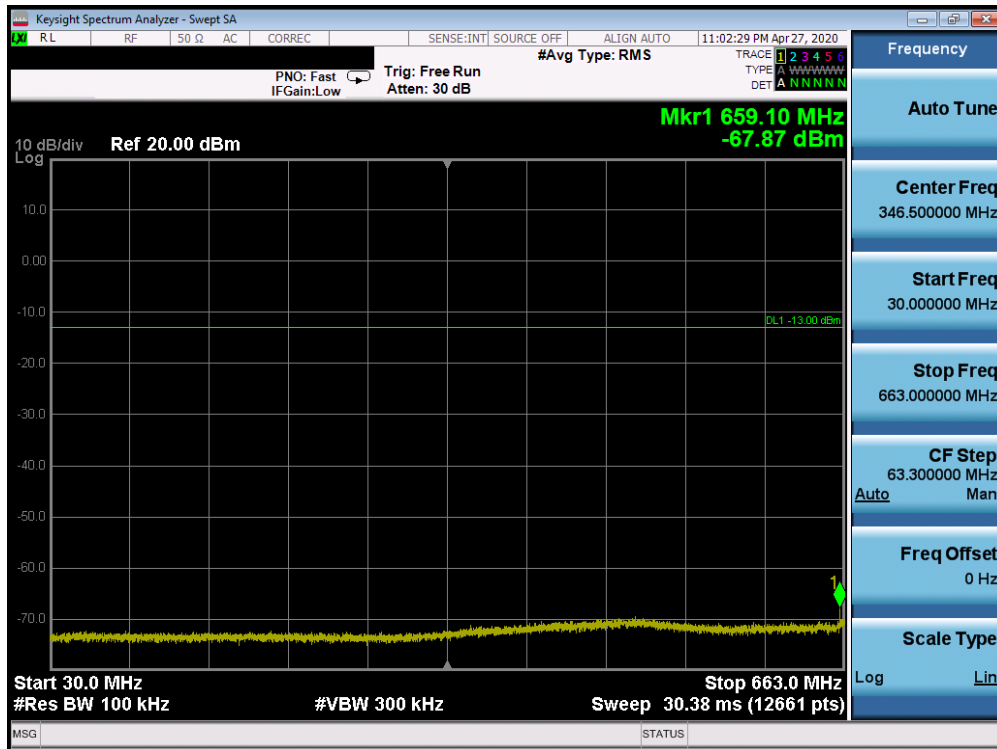


Plot 7-297. Conducted Spurious Plot (5G sub6 n71 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

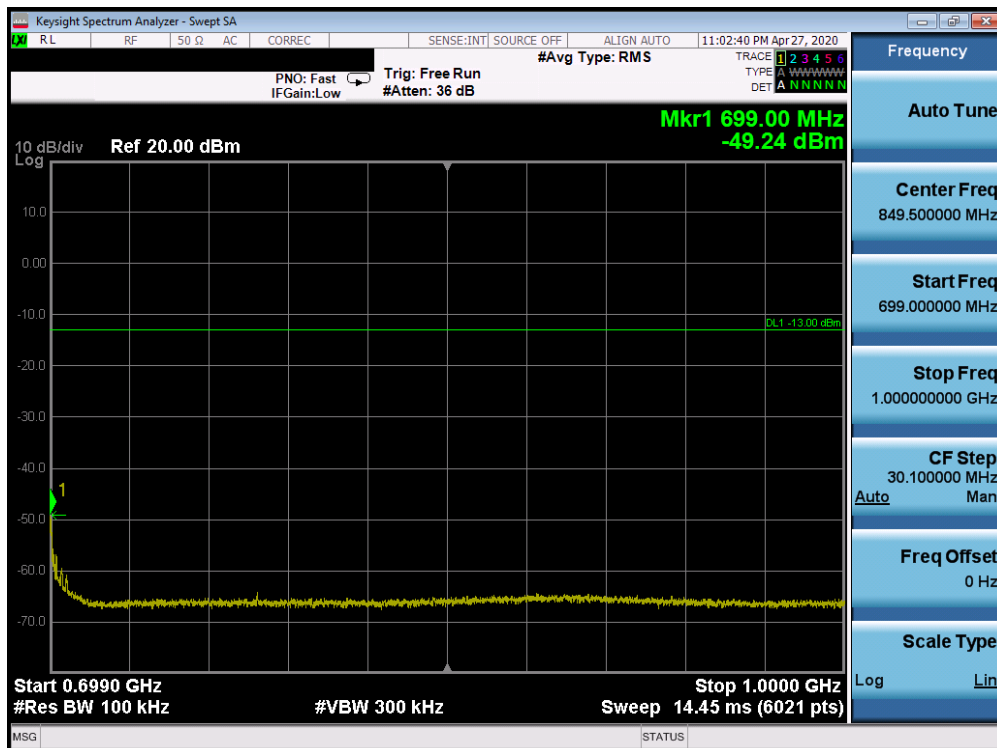


Plot 7-298. Conducted Spurious Plot (5G sub6 n71 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 172 of 438



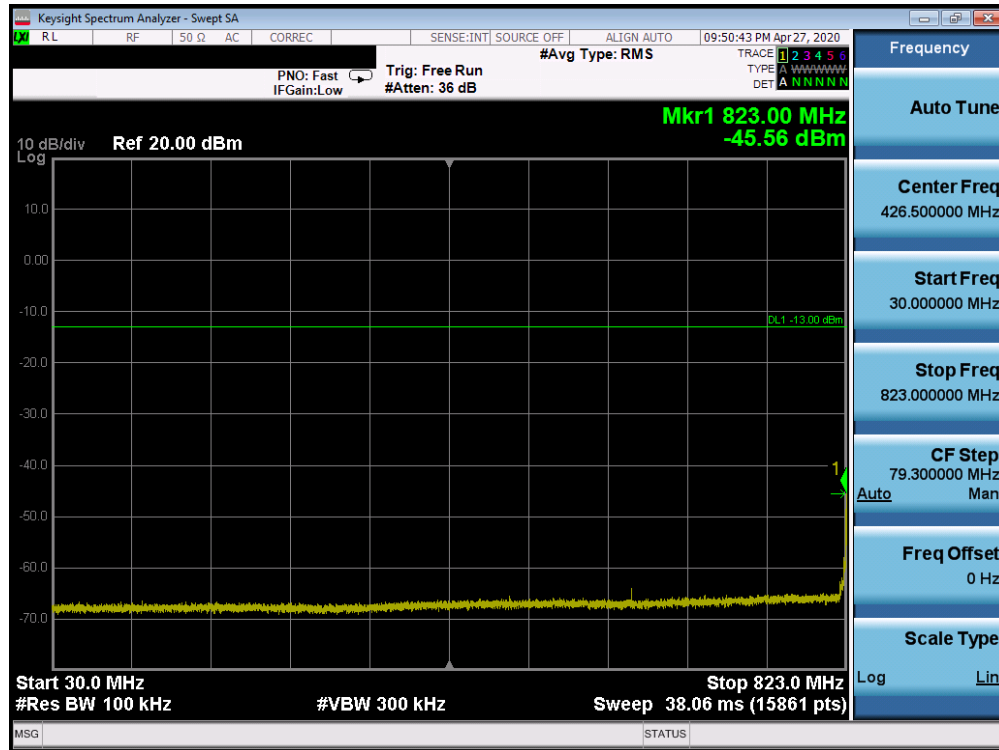
Plot 7-299. Conducted Spurious Plot (5G sub6 n71 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



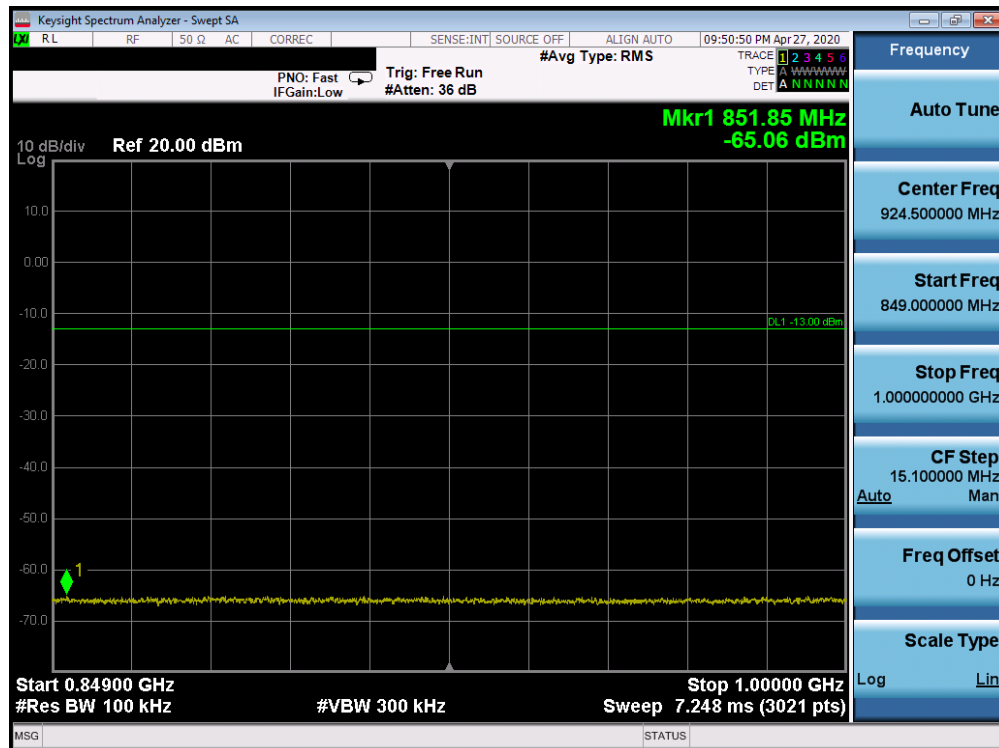
Plot 7-300. Conducted Spurious Plot (5G sub6 n71 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 173 of 438

5G sub6 n5

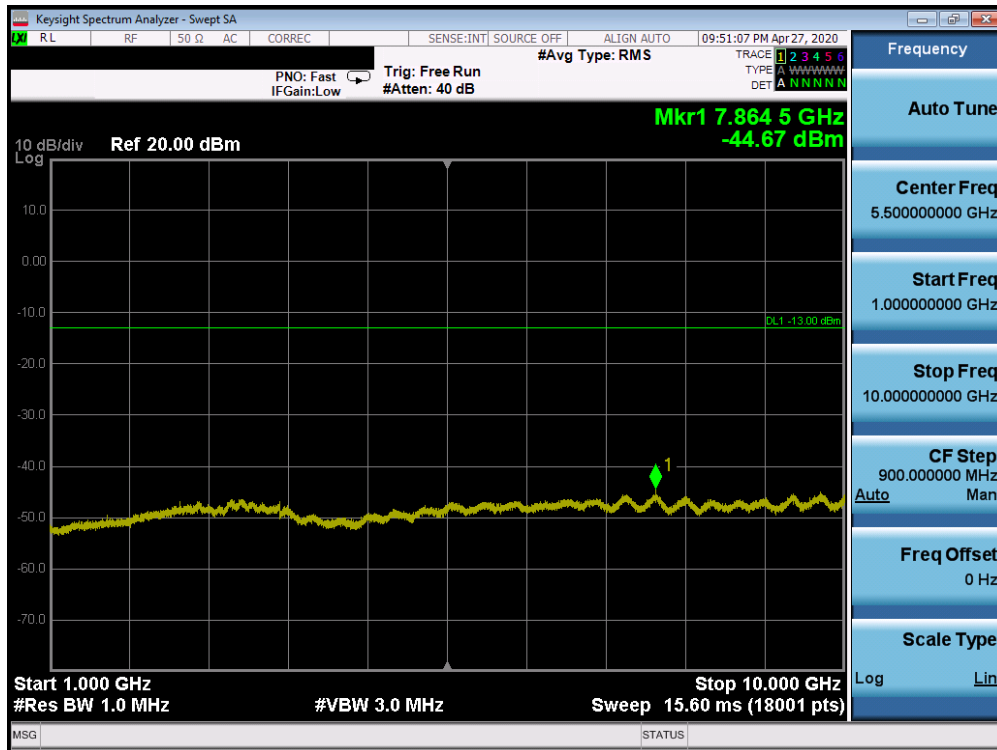


Plot 7-302. Conducted Spurious Plot (5G sub6 n5 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

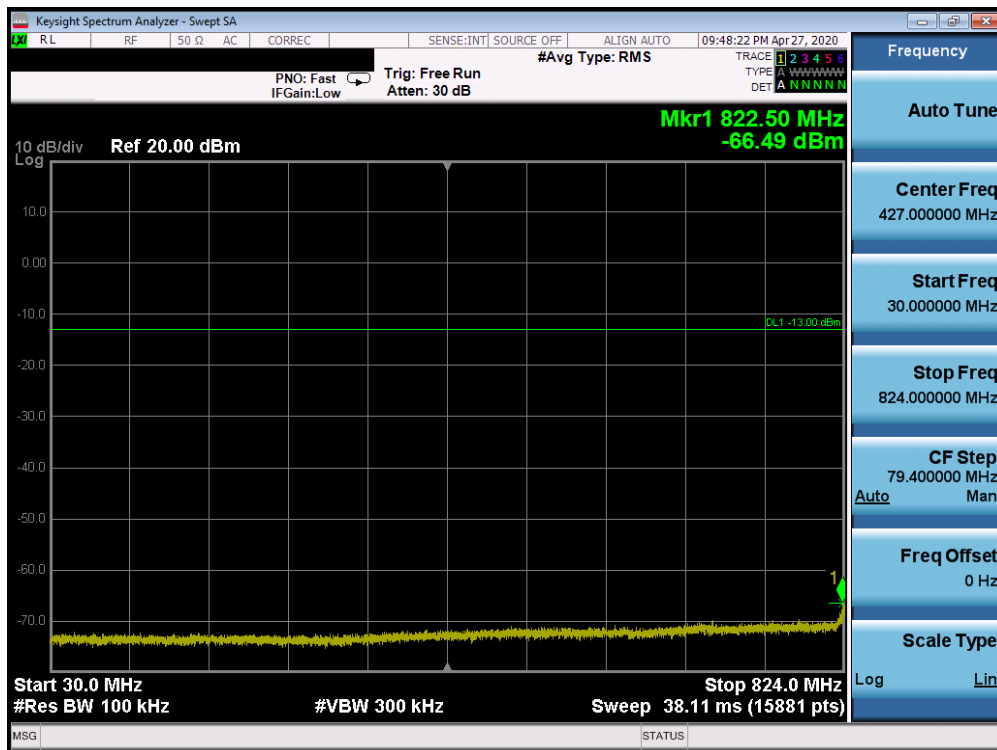


Plot 7-303. Conducted Spurious Plot (5G sub6 n5 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 175 of 438

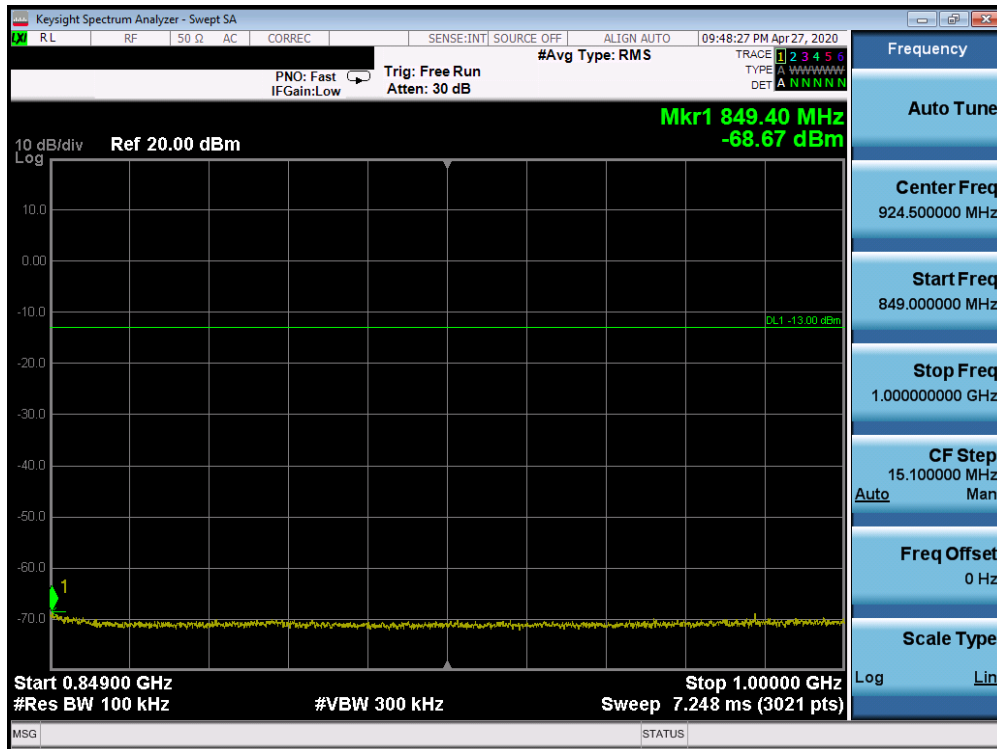


Plot 7-304. Conducted Spurious Plot (5G sub6 n5 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

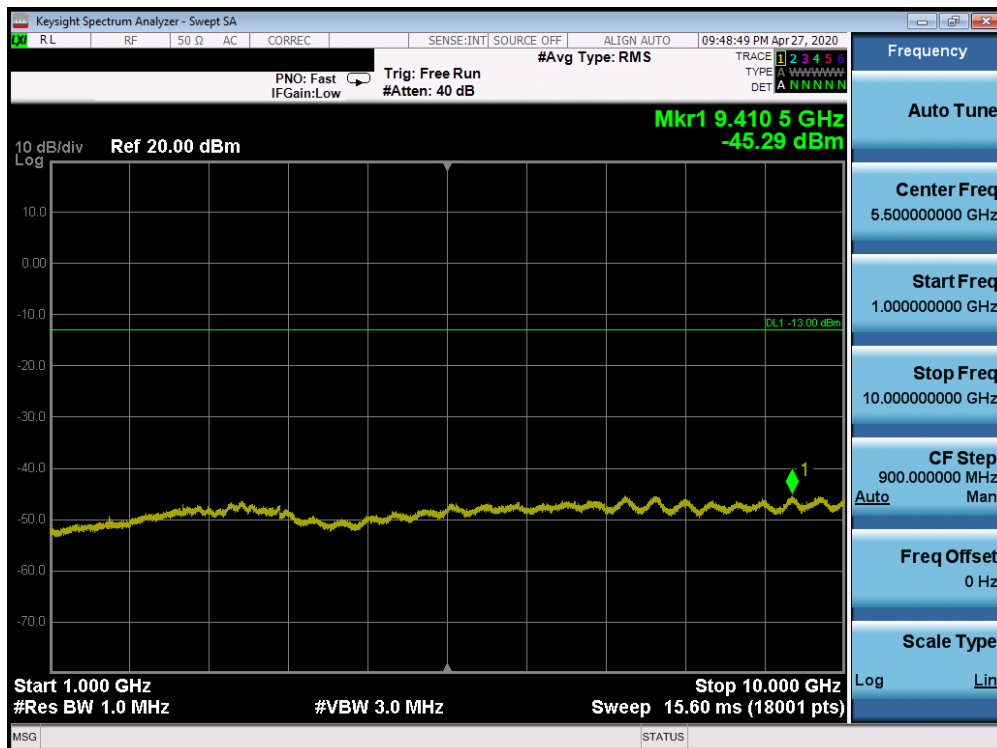


Plot 7-305. Conducted Spurious Plot (5G sub6 n5 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 176 of 438

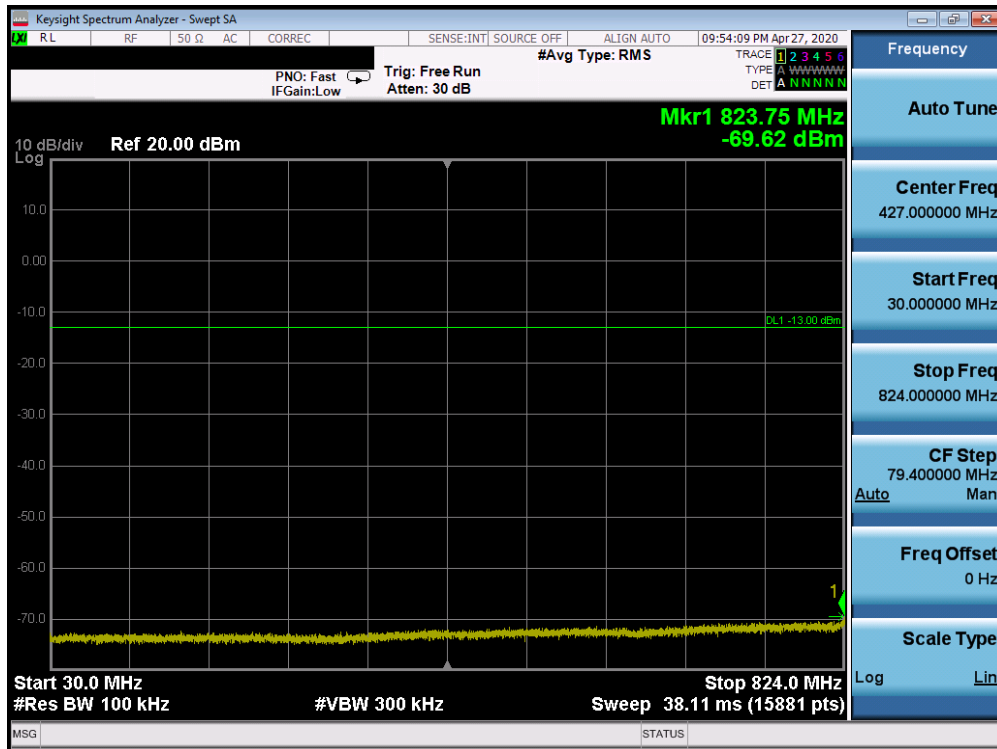


Plot 7-306. Conducted Spurious Plot (5G sub6 n5 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

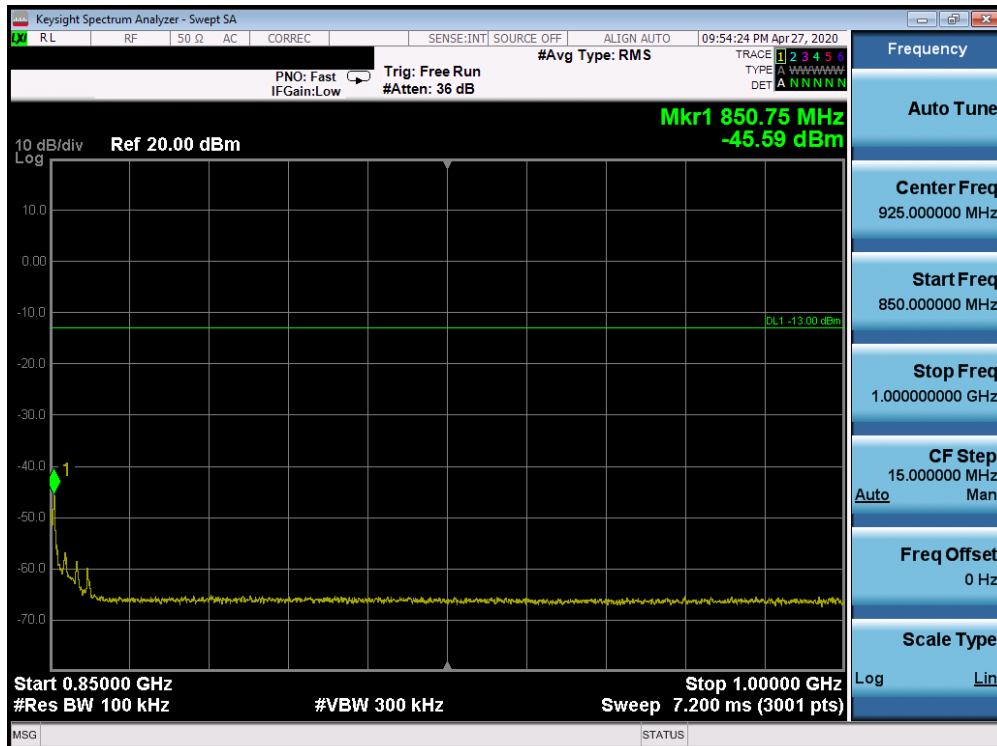


Plot 7-307. Conducted Spurious Plot (5G sub6 n5 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 177 of 438

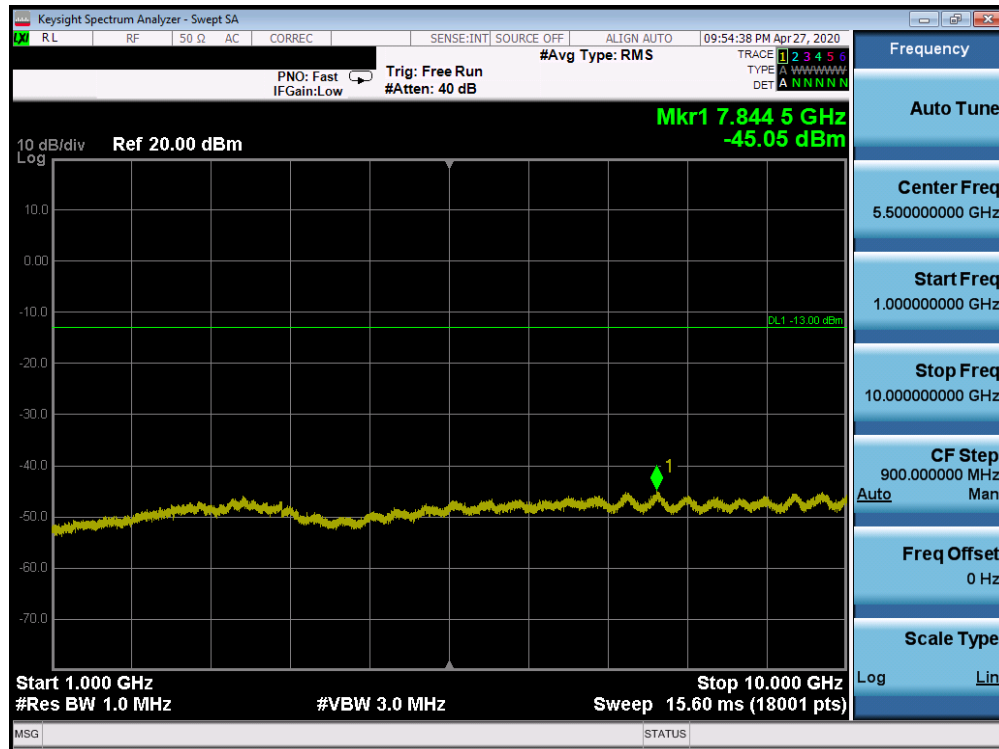


Plot 7-308. Conducted Spurious Plot (5G sub6 n5 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-309. Conducted Spurious Plot (5G sub6 n5 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

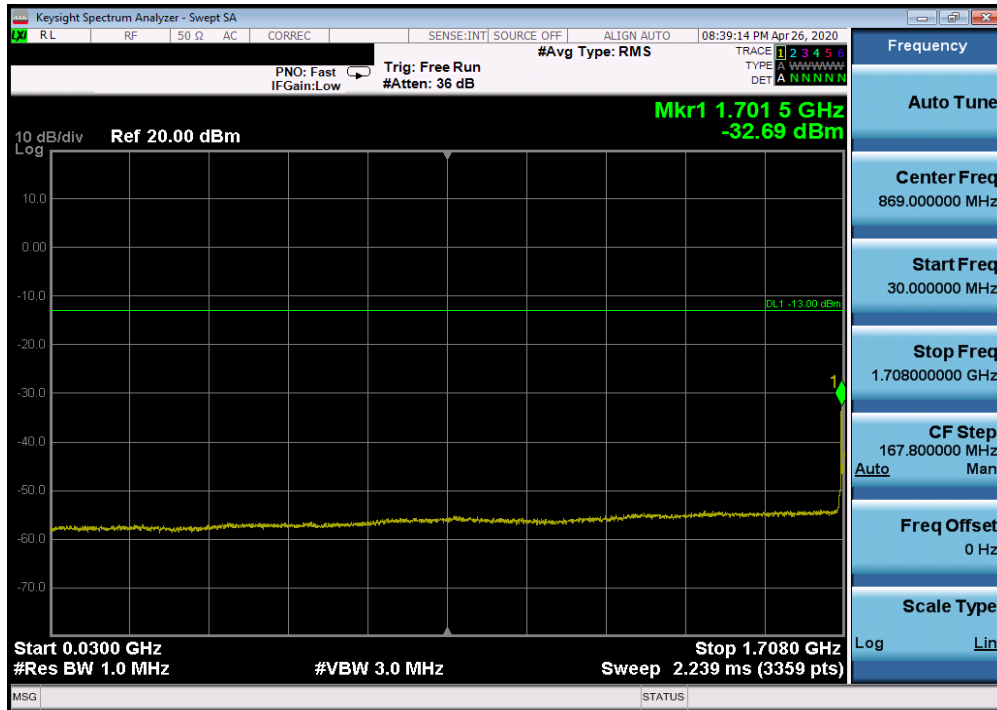
FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 178 of 438



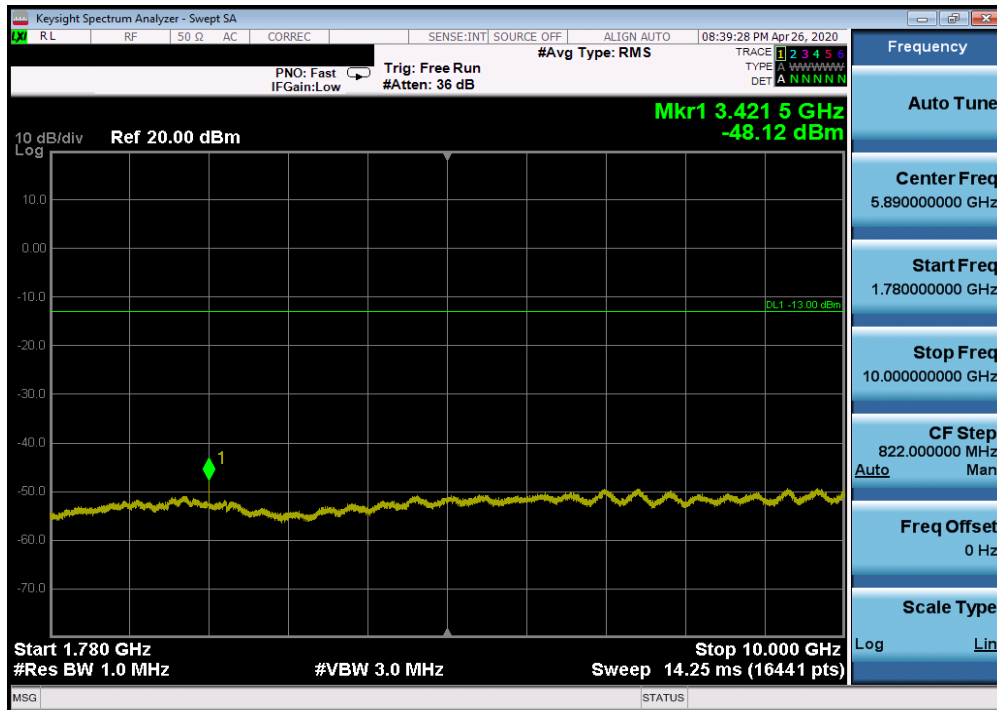
Plot 7-310. Conducted Spurious Plot (5G sub6 n5 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 179 of 438

5G sub6 n66

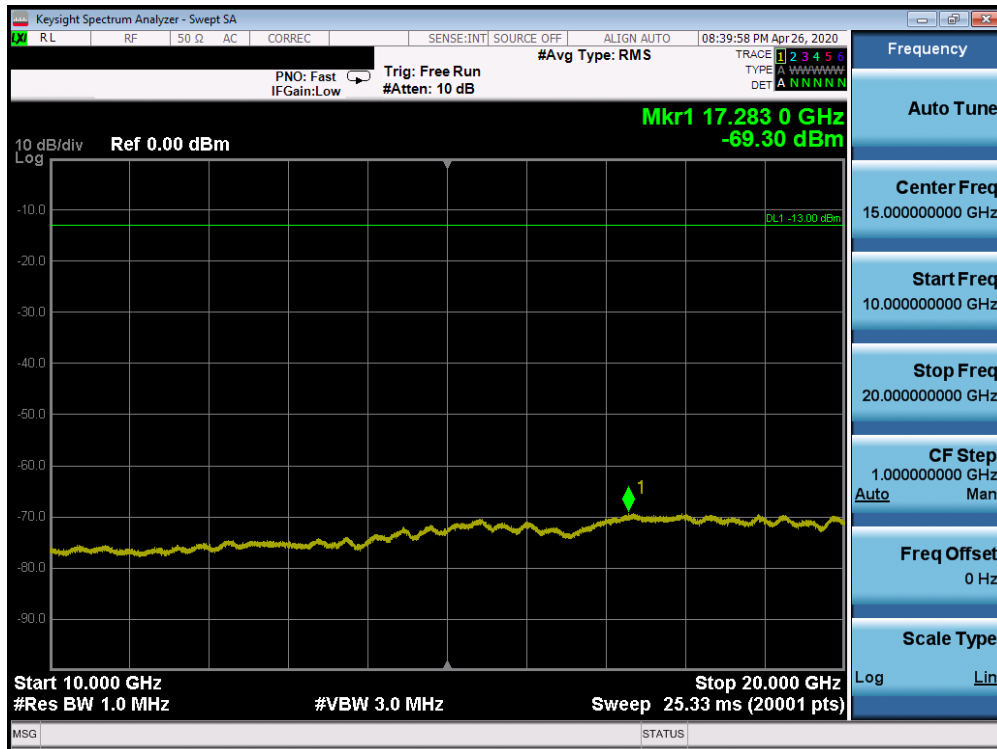


Plot 7-311. Conducted Spurious Plot (5G sub6 n66 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

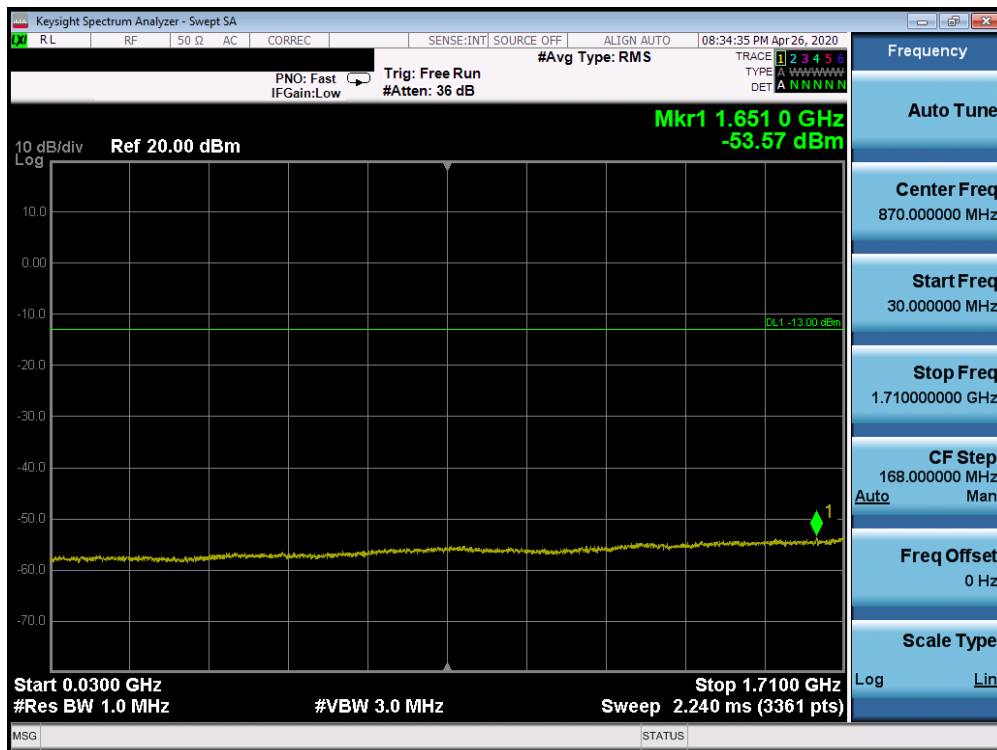


Plot 7-312. Conducted Spurious Plot (5G sub6 n66 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 180 of 438

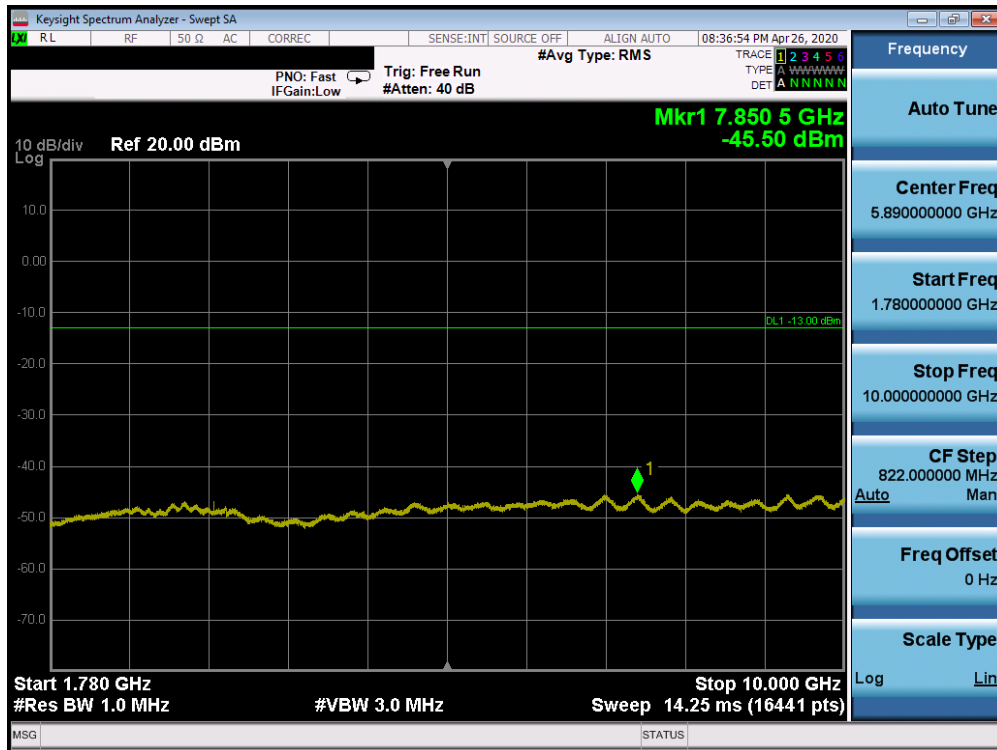


Plot 7-313. Conducted Spurious Plot (5G sub6 n66 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

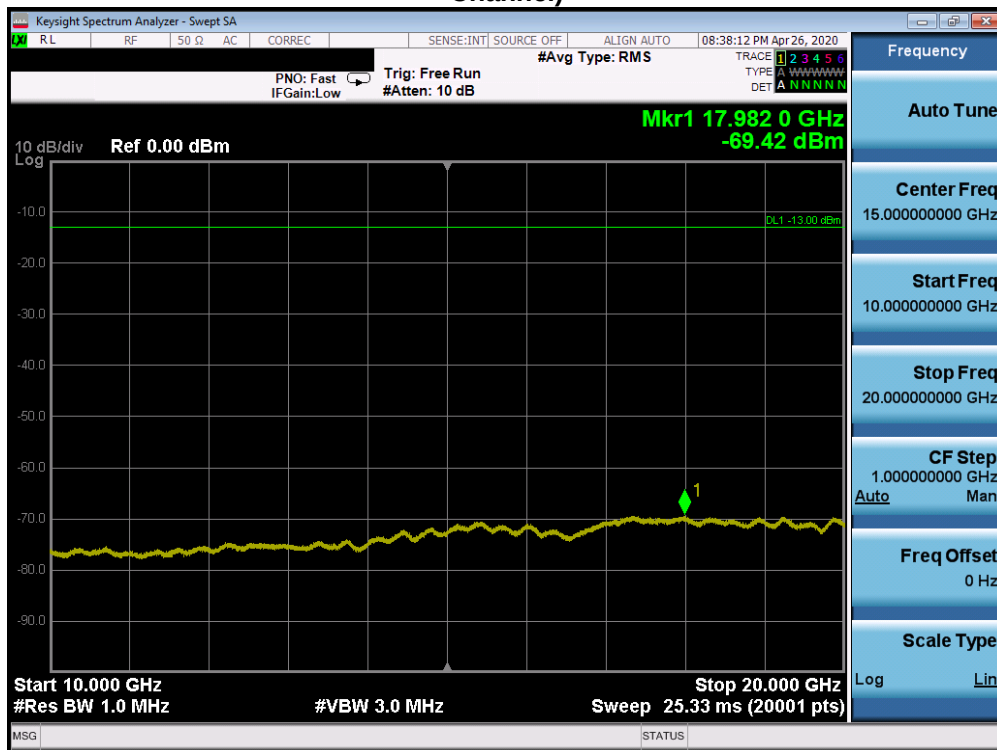


Plot 7-314. Conducted Spurious Plot (5G sub6 n66 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 181 of 438

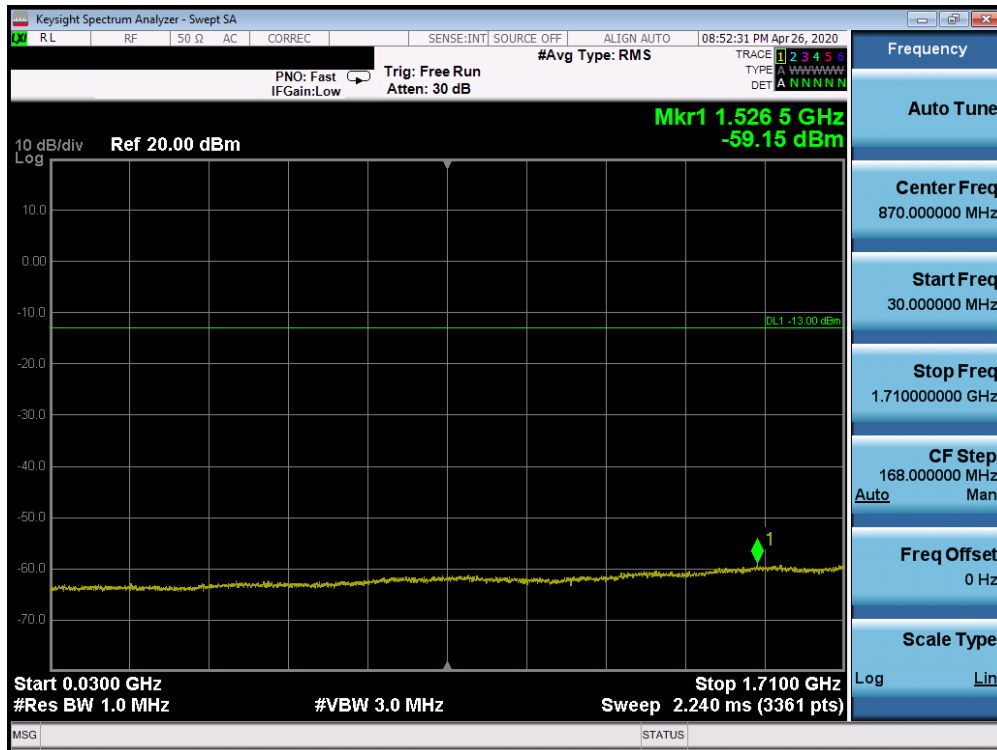


Plot 7-315. Conducted Spurious Plot (5G sub6 n66 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

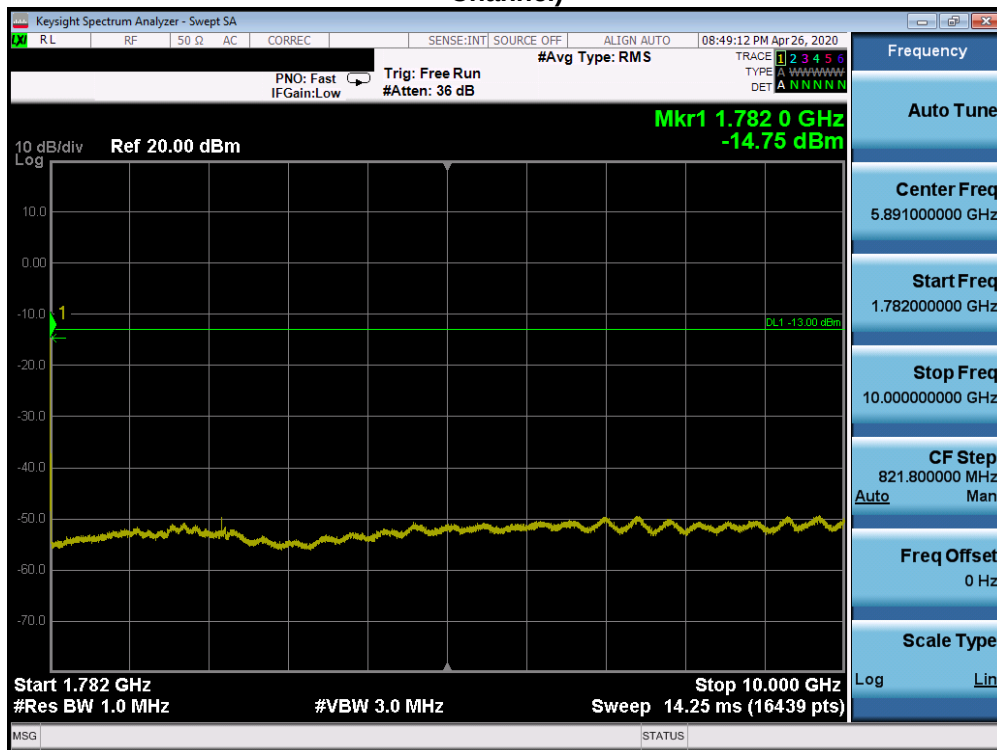


Plot 7-316. Conducted Spurious Plot (5G sub6 n66 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 182 of 438

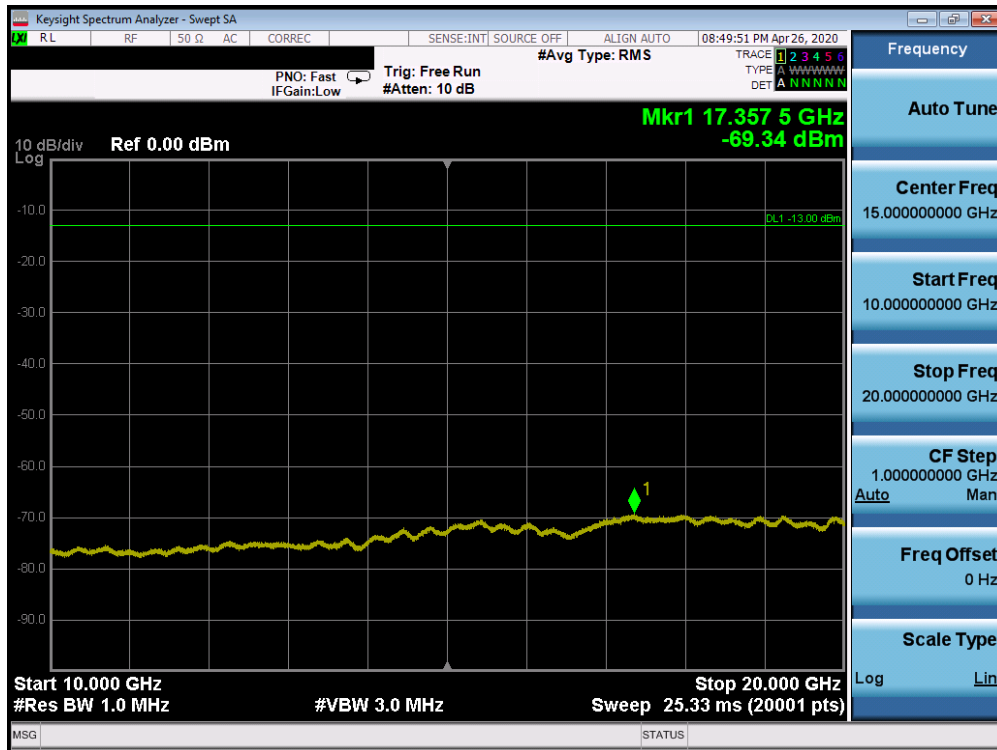


Plot 7-317. Conducted Spurious Plot (5G sub6 n66 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-318. Conducted Spurious Plot (5G sub6 n66 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

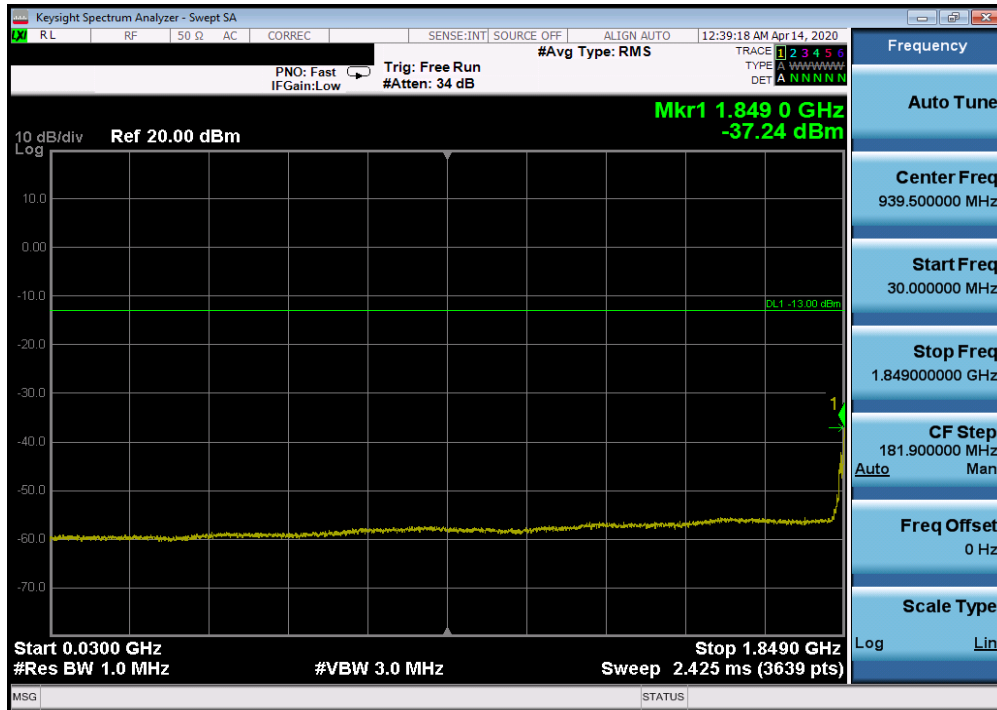
FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 183 of 438



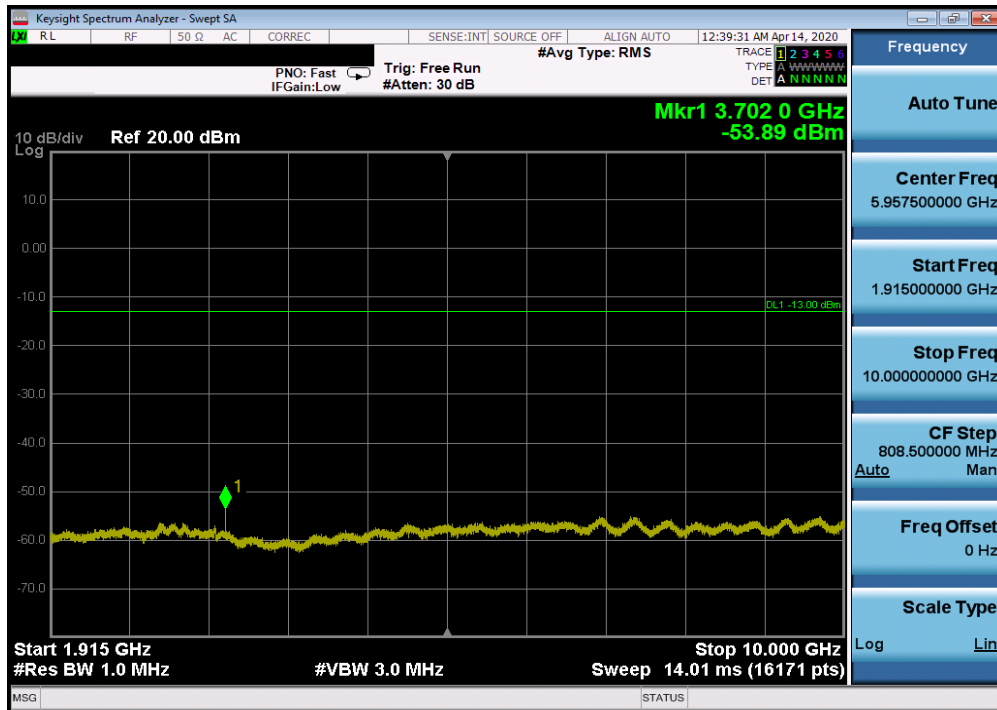
Plot 7-319. Conducted Spurious Plot (5G sub6 n66 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 184 of 438

5G sub6 n25/2

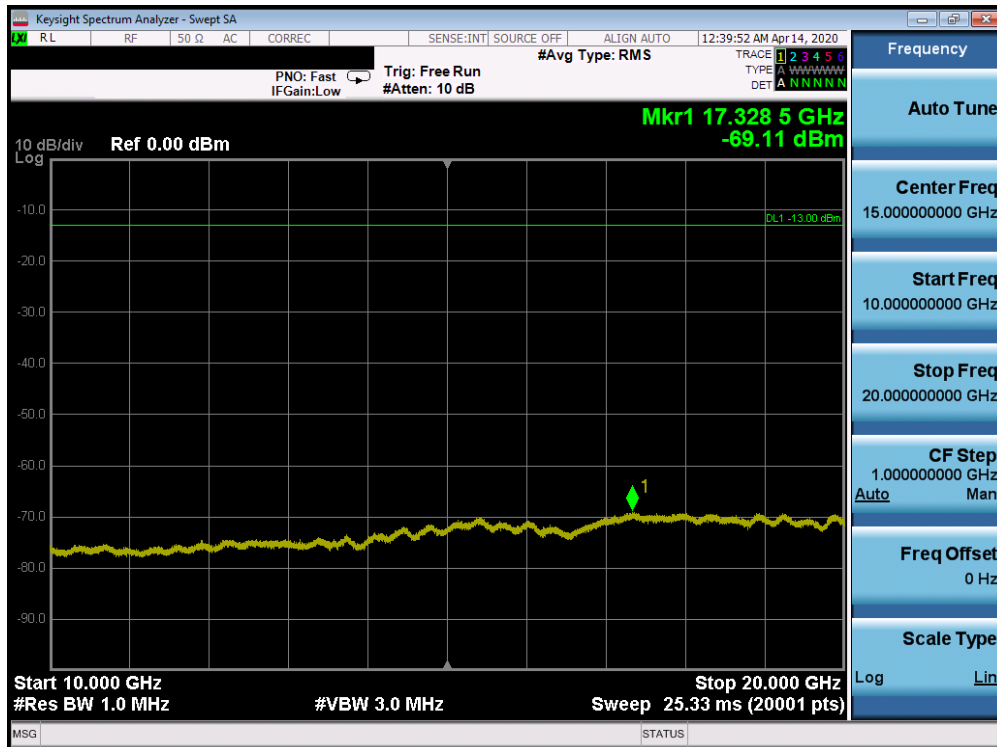


Plot 7-320. Conducted Spurious Plot (5G sub6 n25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

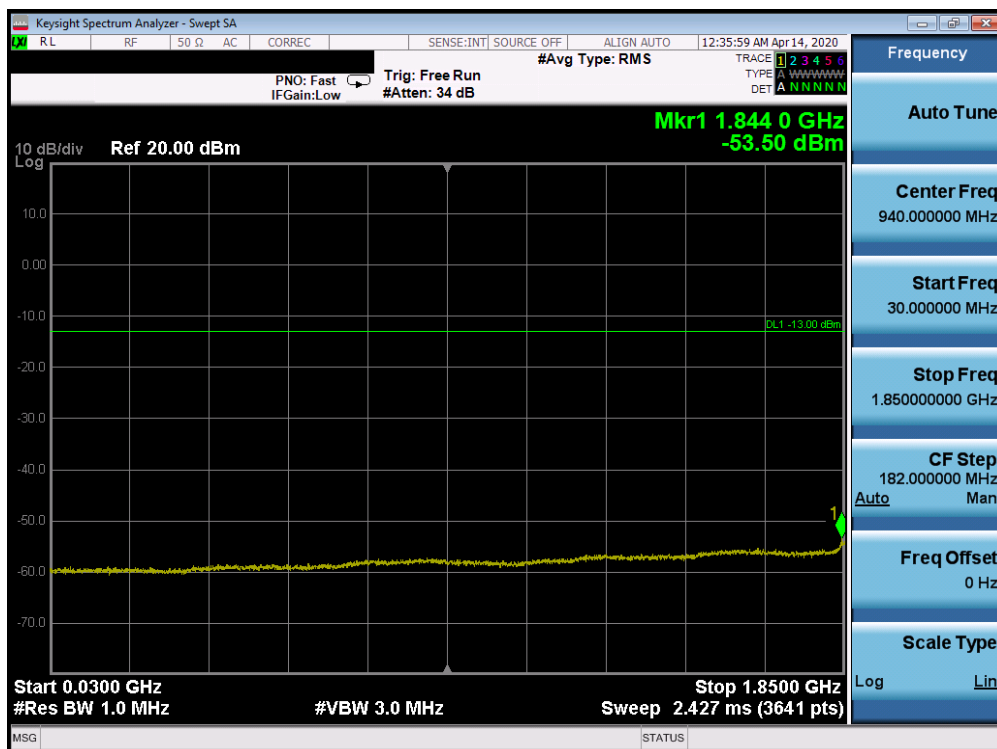


Plot 7-321. Conducted Spurious Plot (5G sub6 n25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 185 of 438

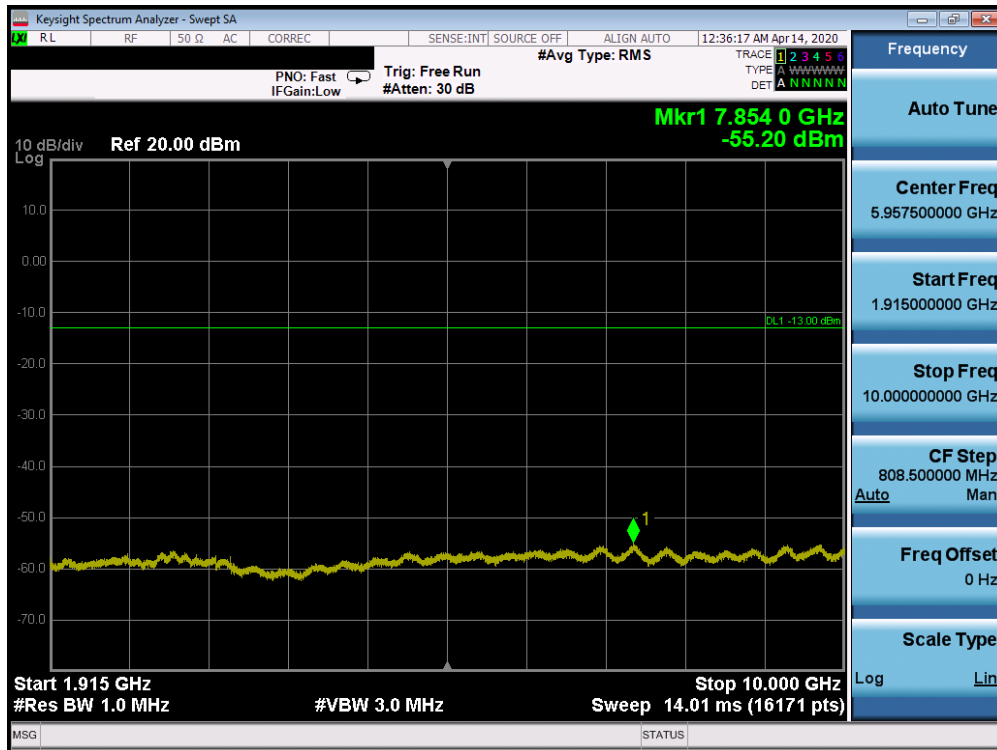


Plot 7-322. Conducted Spurious Plot (5G sub6 n25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

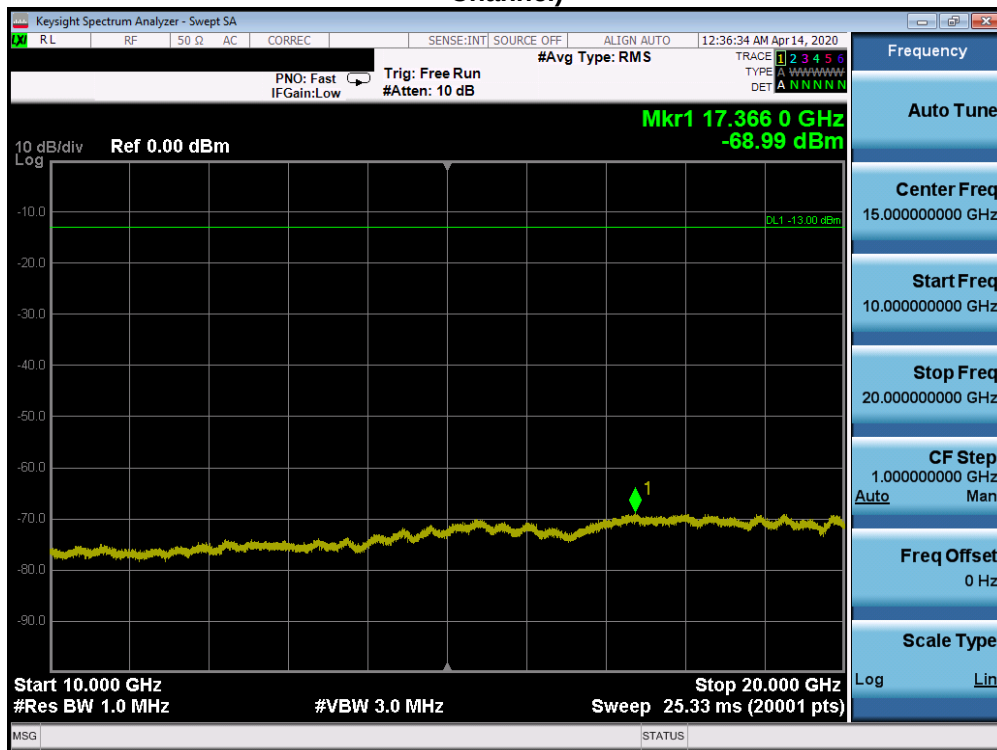


Plot 7-323. Conducted Spurious Plot (5G sub6 n25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 186 of 438

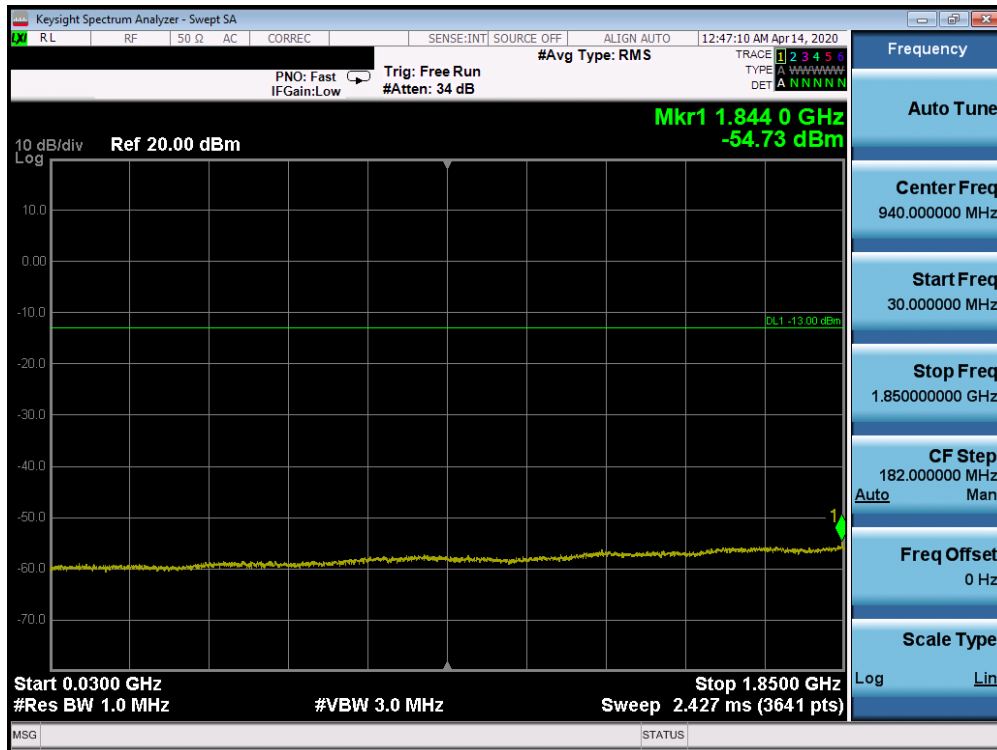


Plot 7-324. Conducted Spurious Plot (5G sub6 n25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

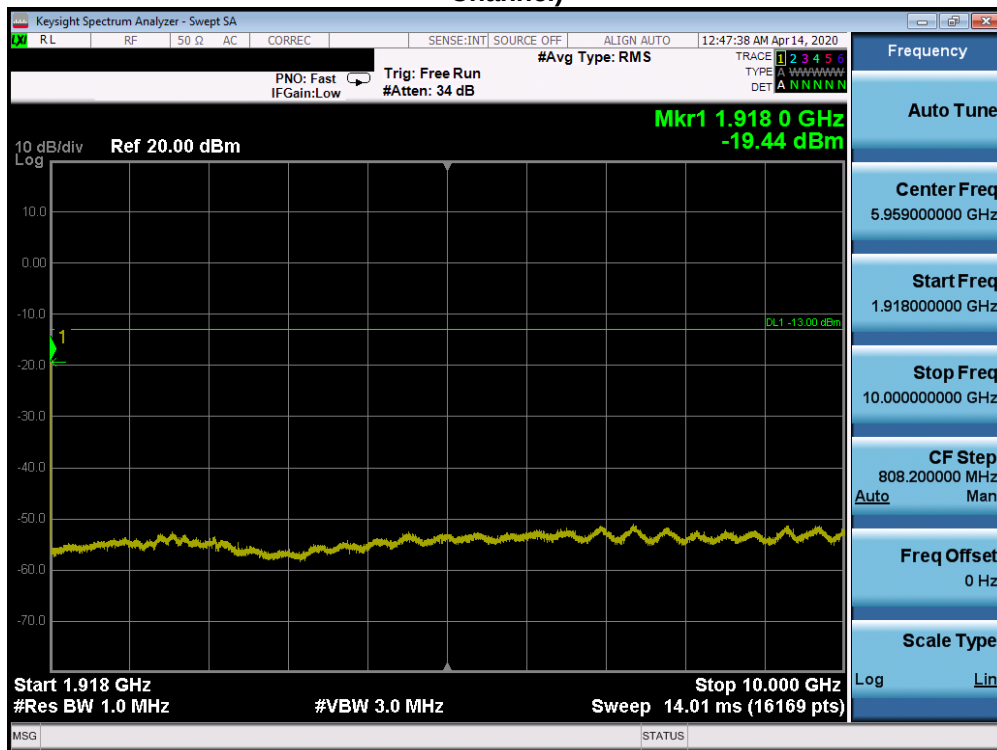


Plot 7-325. Conducted Spurious Plot (5G sub6 n25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 187 of 438

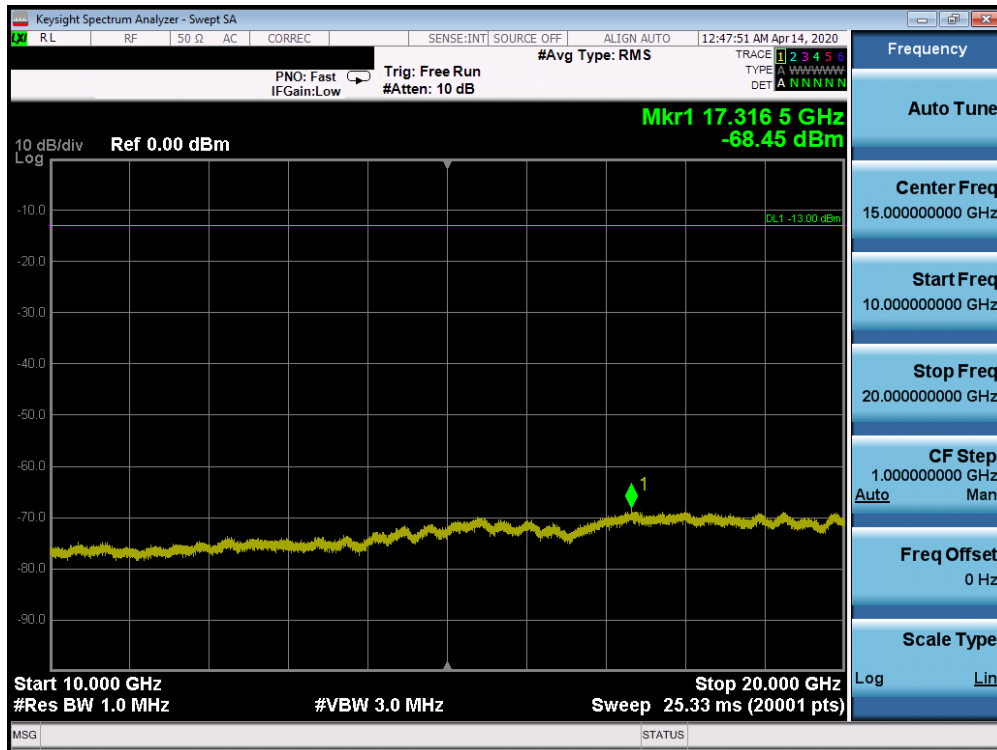


Plot 7-326. Conducted Spurious Plot (5G sub6 n25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-327. Conducted Spurious Plot (5G sub6 n25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

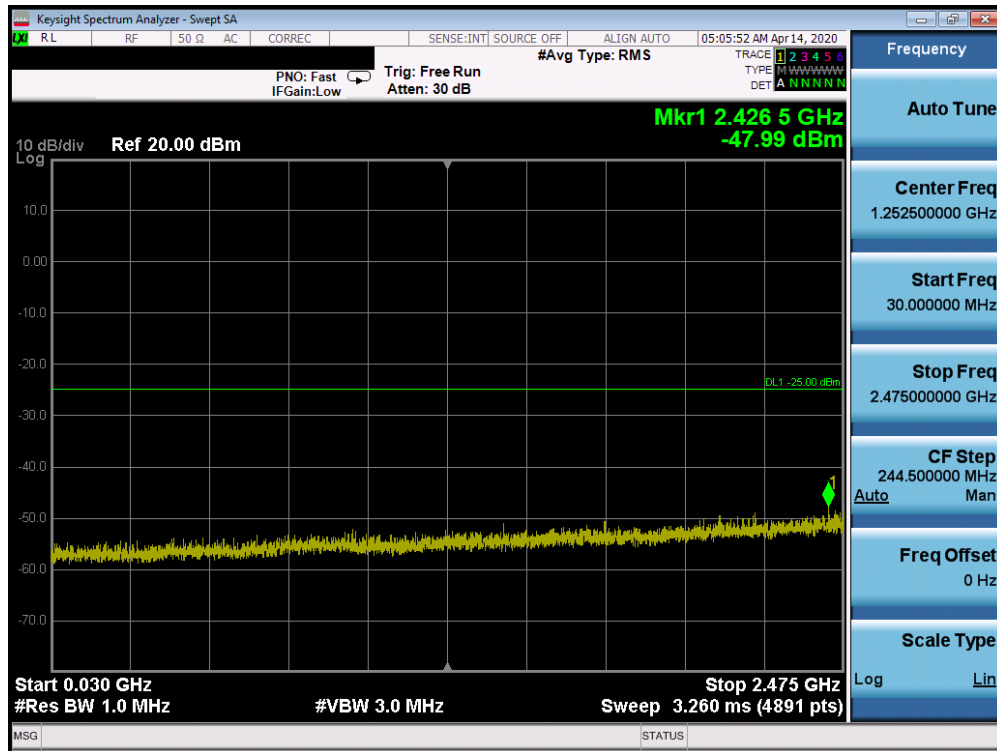
FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 188 of 438



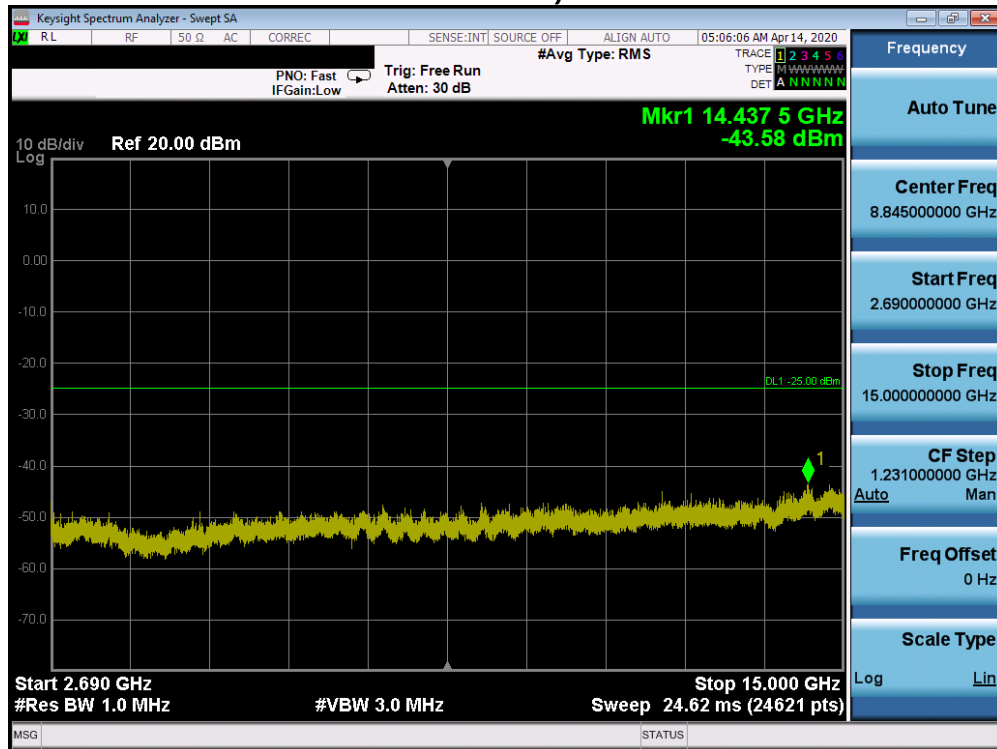
Plot 7-328. Conducted Spurious Plot (5G sub6 n25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 189 of 438

5G sub6 n41

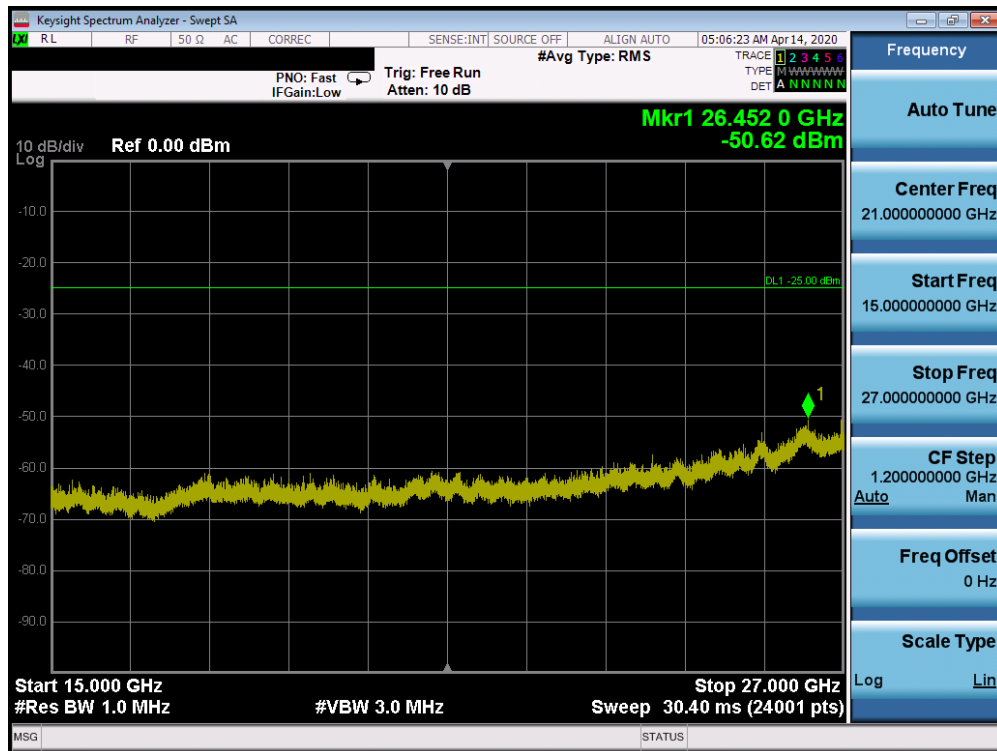


Plot 7-329. Conducted Spurious Plot (5G sub6 n41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

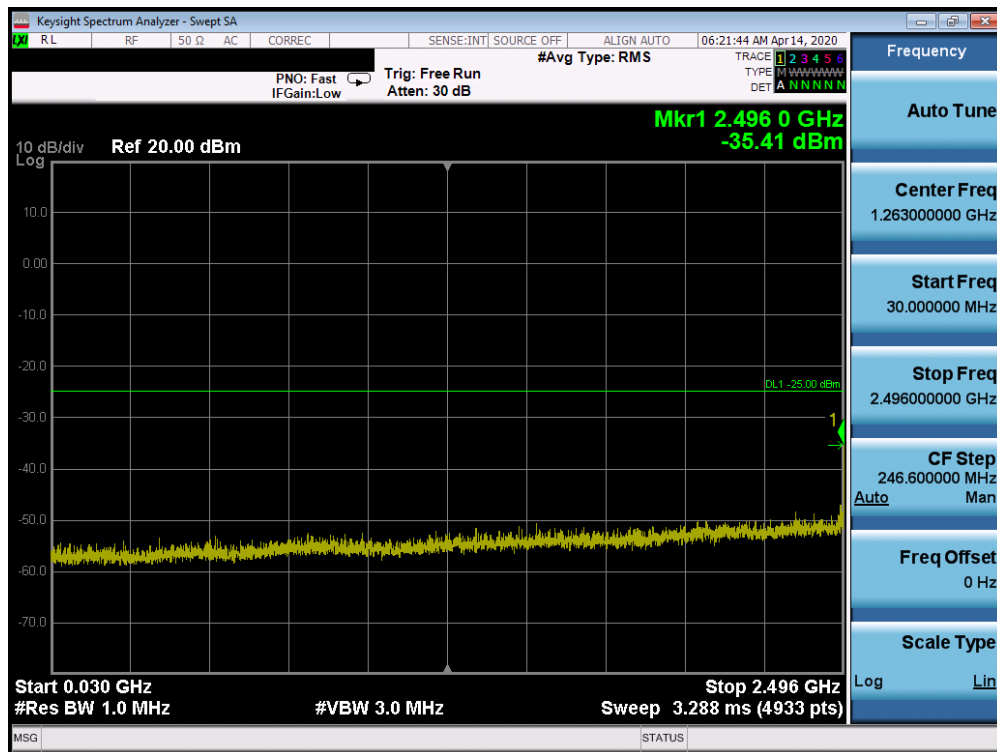


Plot 7-330. Conducted Spurious Plot (5G sub6 n41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 190 of 438

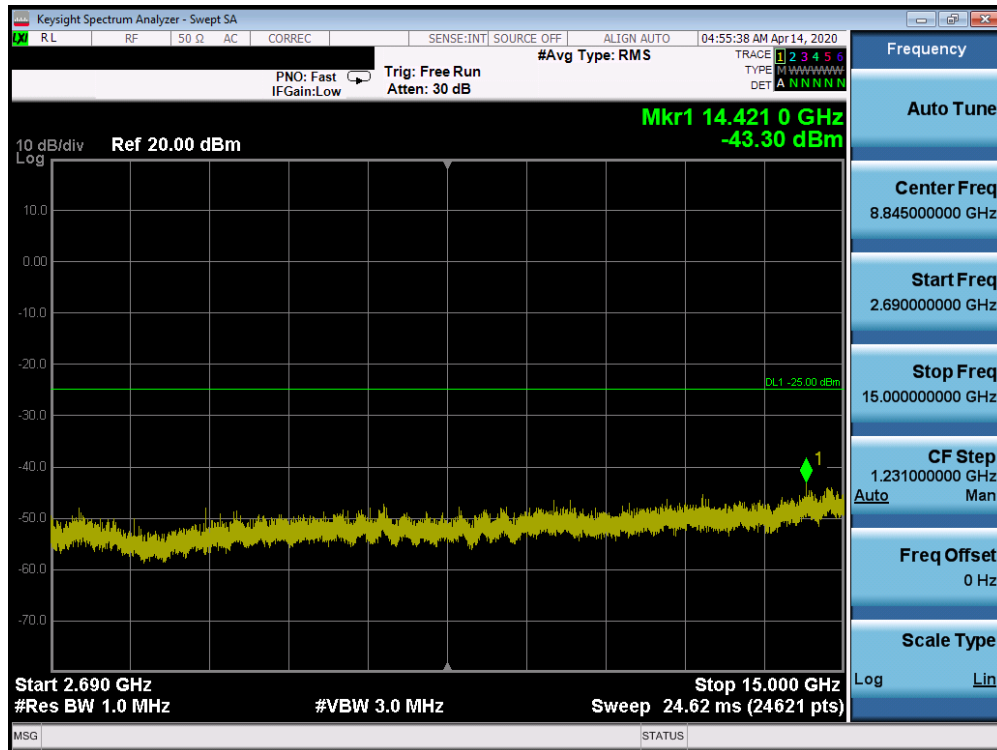


Plot 7-331. Conducted Spurious Plot (5G sub6 n41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

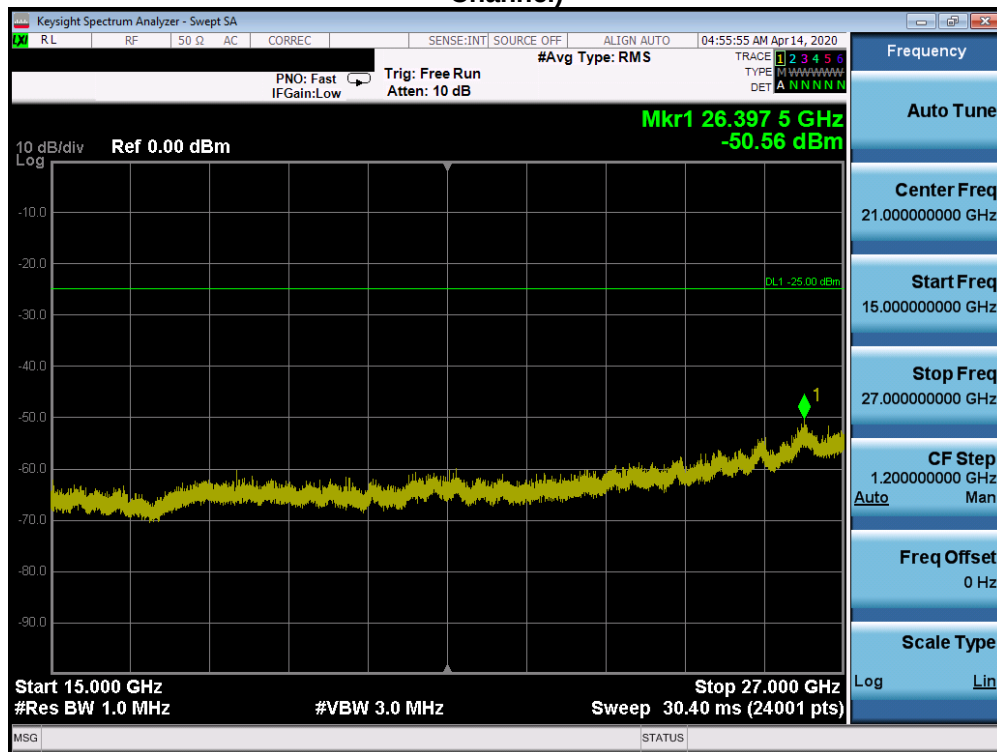


Plot 7-332. Conducted Spurious Plot (5G sub6 n41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 191 of 438

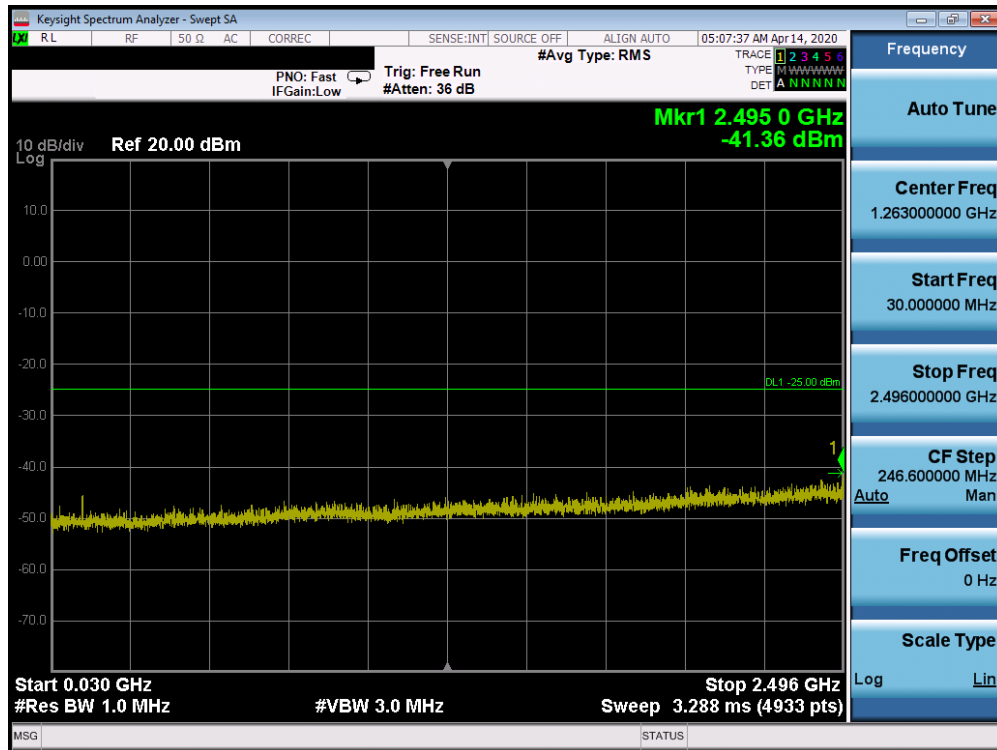


Plot 7-333. Conducted Spurious Plot (5G sub6 n41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

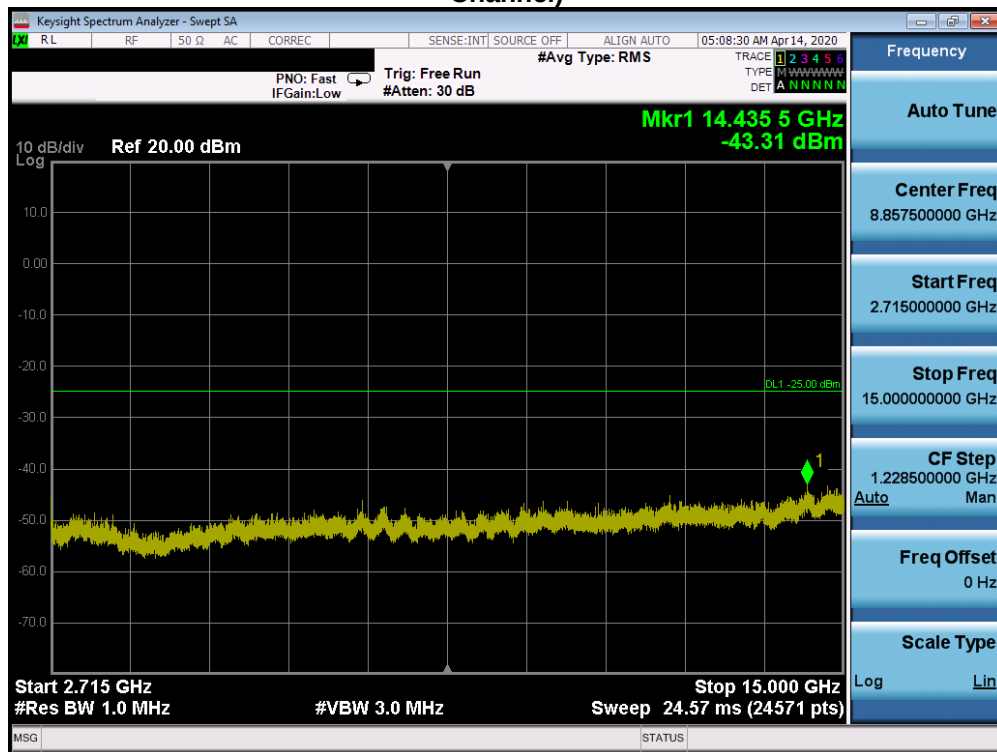


Plot 7-334. Conducted Spurious Plot (5G sub6 n41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 192 of 438

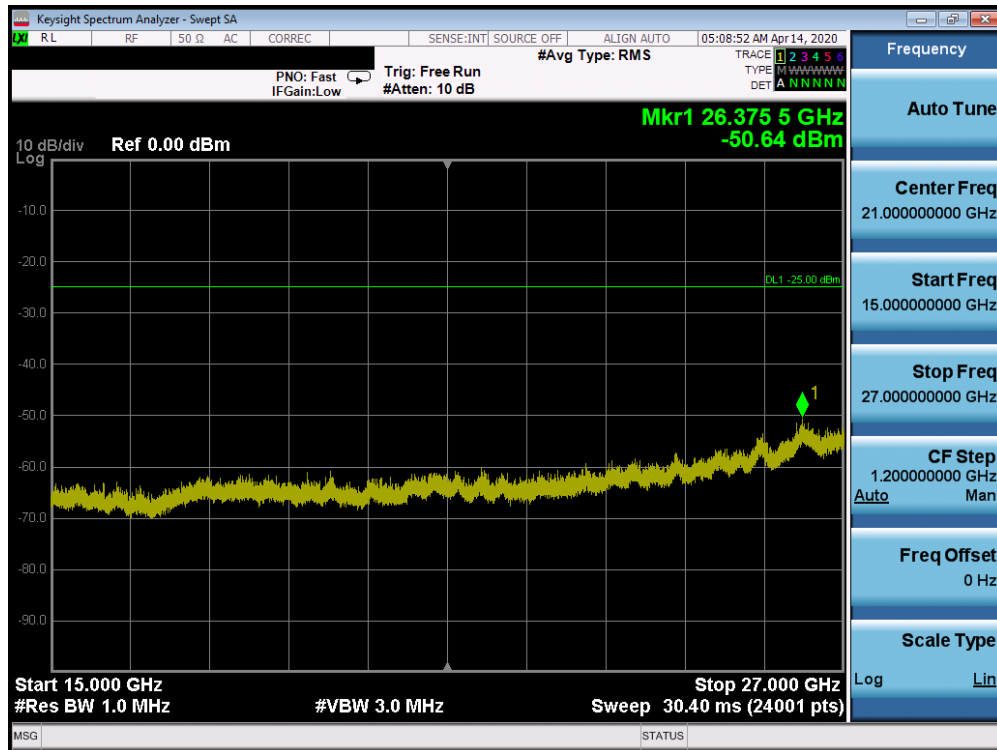


Plot 7-335. Conducted Spurious Plot (5G sub6 n41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-336. Conducted Spurious Plot (5G sub6 n41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 193 of 438



Plot 7-337. Conducted Spurious Plot (5G sub6 n41 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 194 of 438

7.4 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

The minimum permissible attenuation level for Band 30 is $> 43 + 10 \log_{10}(P_{\text{Watts}})$ at 2300-2305MHz & 2345-2360MHz, $> 55 + 10 \log_{10}(P_{\text{Watts}})$ at 2320-2324MHz & 2341-2345MHz, $> 61 + 10 \log_{10}(P_{\text{Watts}})$ at 2324-2328MHz & 2337-2341MHz, $> 67 + 10 \log_{10}(P_{\text{Watts}})$ at 2288-2292MHz & 2328-2337MHz, and $> 70 + 10 \log_{10}(P_{\text{Watts}})$ at frequencies $< 2288\text{MHz}$ & $> 2365\text{MHz}$.

The minimum permissible attenuation level for Band 7 and 41 is as noted in the Test Notes on the following page.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW $\geq 1\%$ of the emission bandwidth
4. VBW $\geq 3 \times$ RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times$ Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

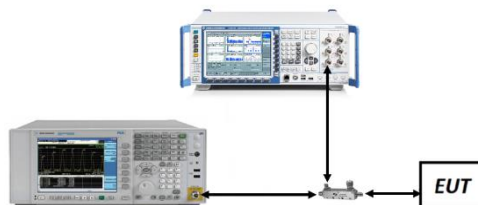


Figure 7-3. Test Instrument & Measurement Setup

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 195 of 438

Test Notes

Per 22.917(b) 24.238(a) 27.53(h) in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Per 27.53(g) for operations in the 698-746 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

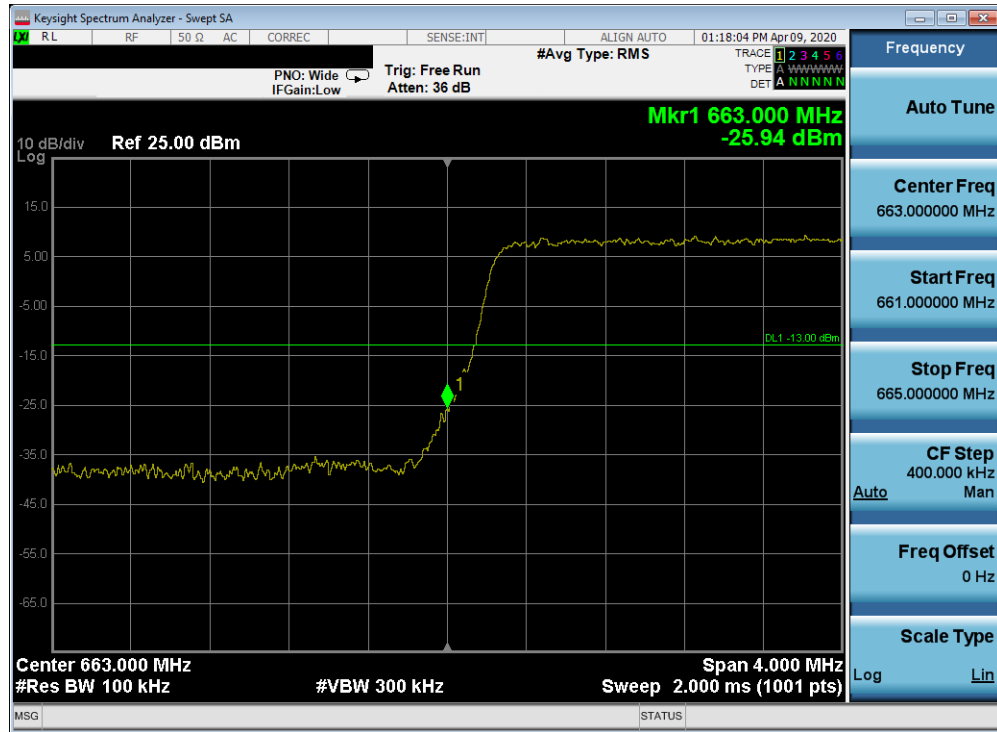
For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is $65 + 10 \log_{10}(P) = -35\text{dBm}$ in a 6.25kHz bandwidth.

Per 27.53(a)(5) in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.

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Band 71

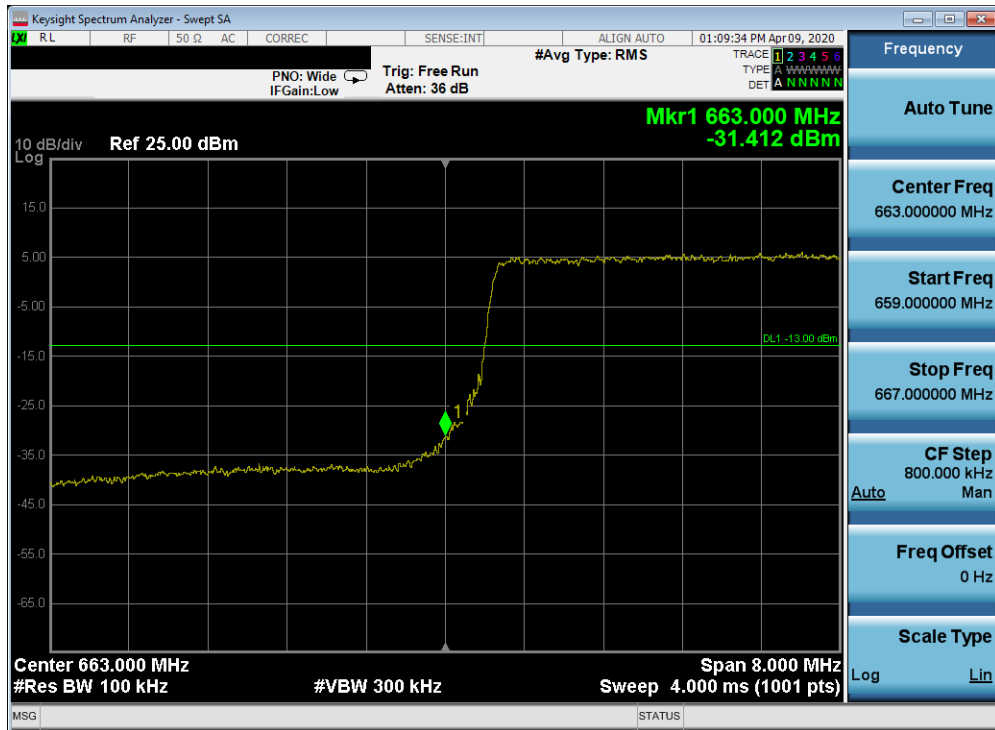


Plot 7-338. Lower Band Edge Plot (Band 71 - 5MHz QPSK - Full RB Configuration)

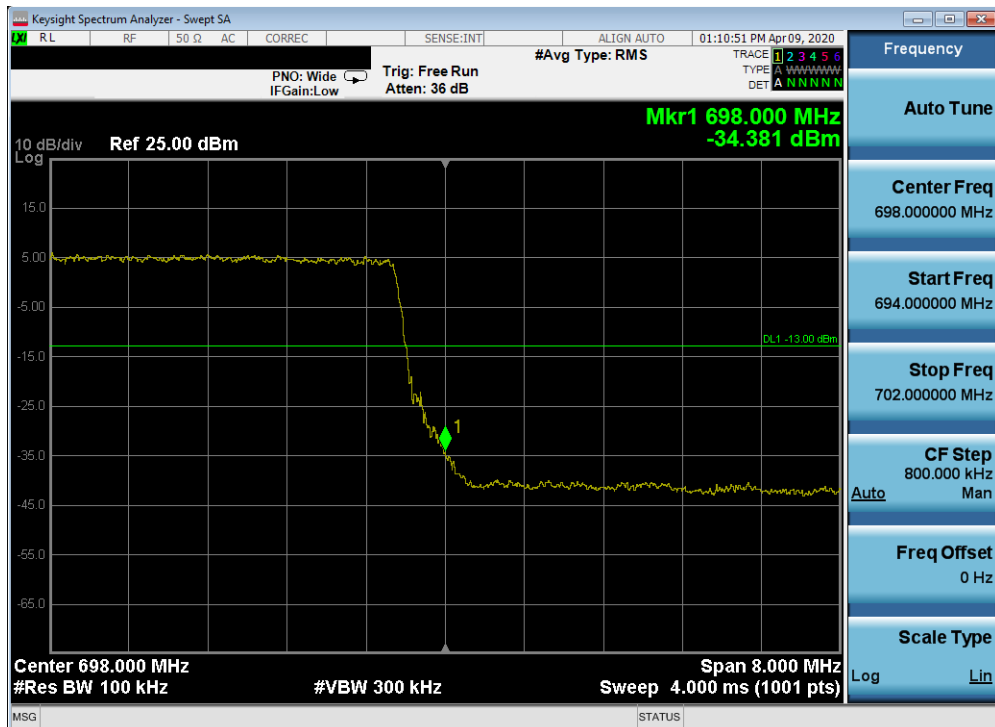


Plot 7-339. Upper Band Edge Plot (Band 71 - 5MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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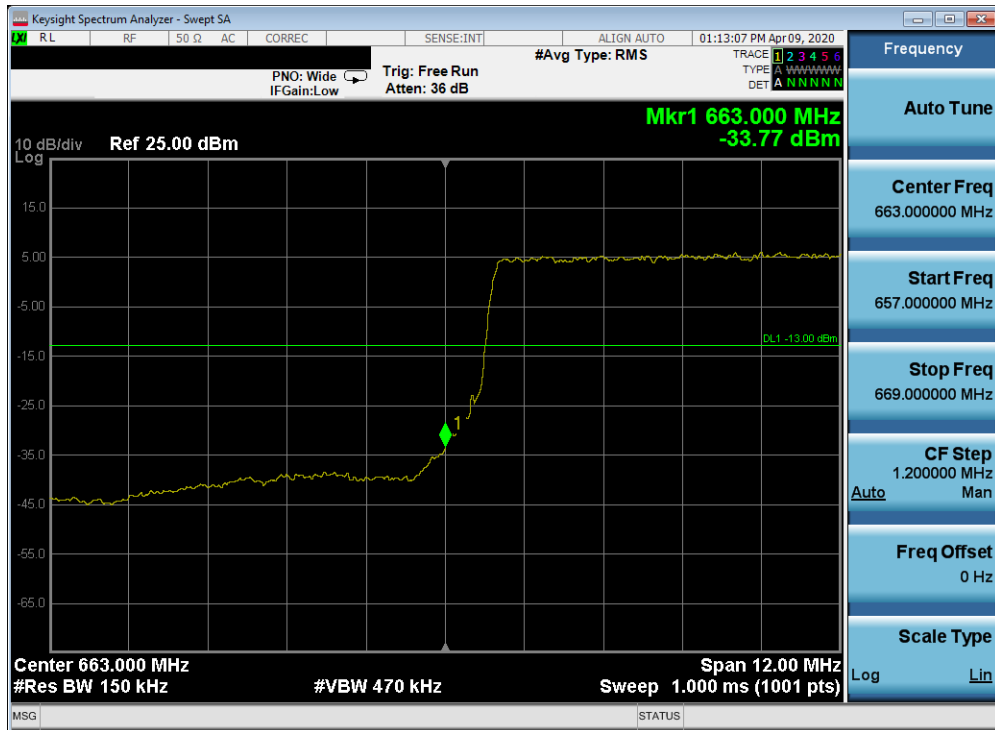


Plot 7-340. Lower Band Edge Plot (Band 71 - 10MHz QPSK - Full RB Configuration)

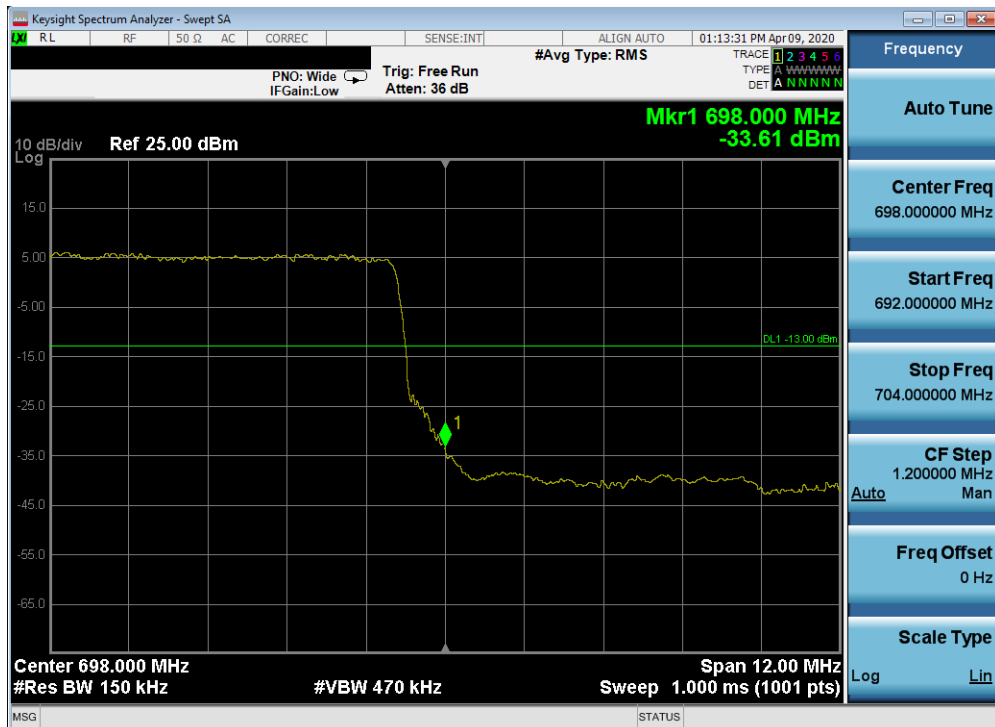


Plot 7-341. Upper Band Edge Plot (Band 71 - 10MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 198 of 438

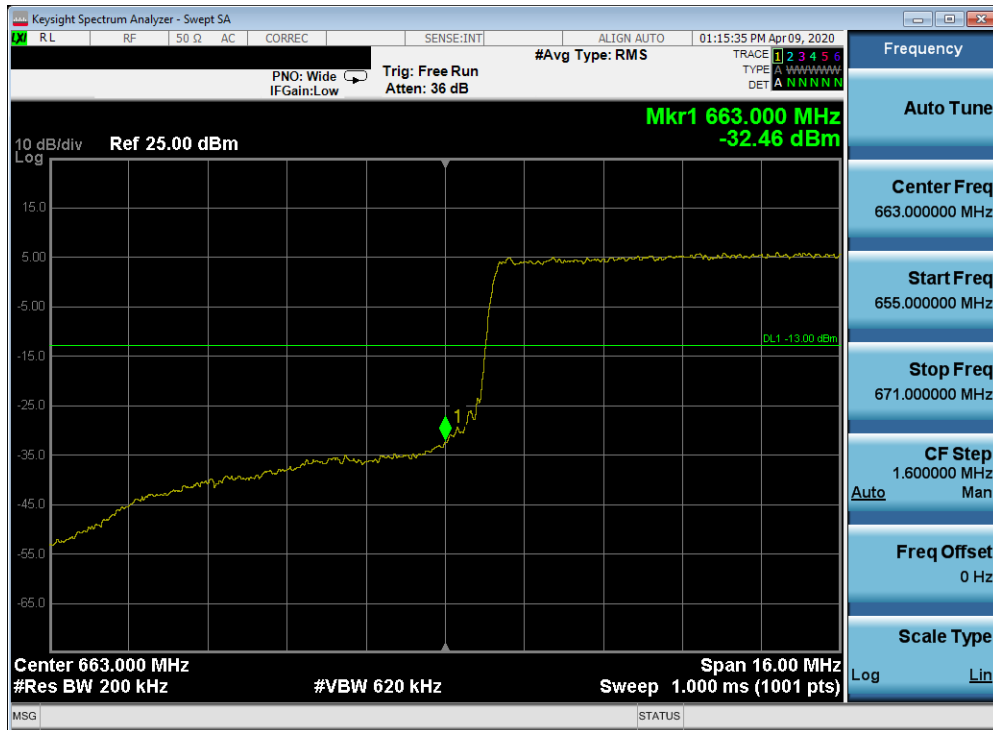


Plot 7-342. Lower Band Edge Plot (Band 71 - 15MHz QPSK - Full RB Configuration)

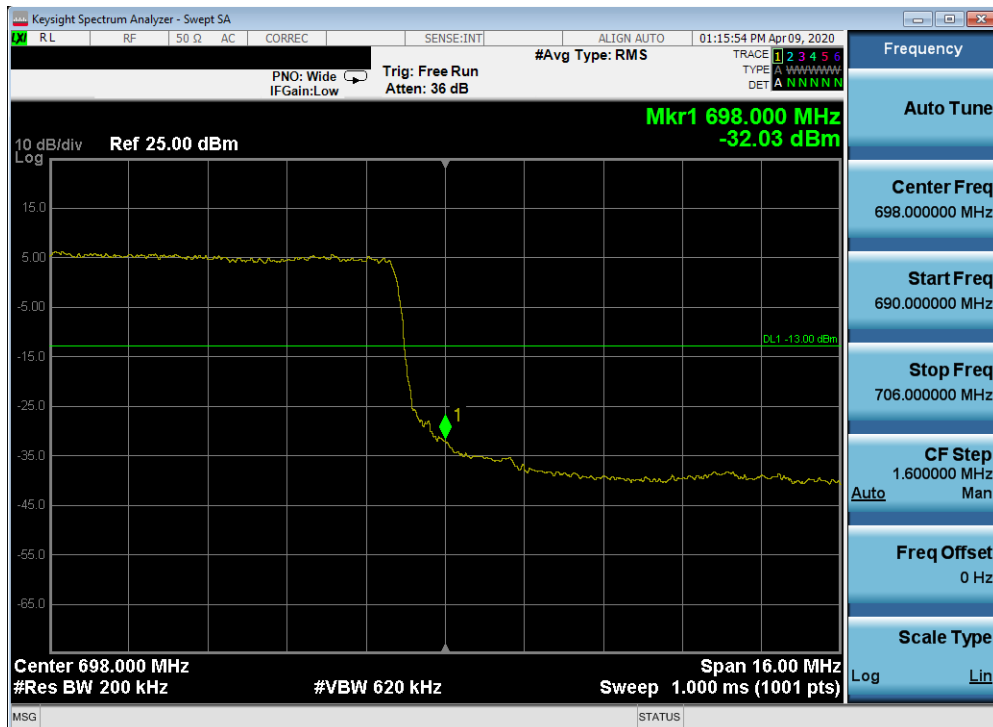


Plot 7-343. Upper Band Edge Plot (Band 71 - 15MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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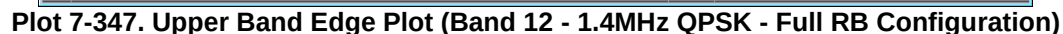
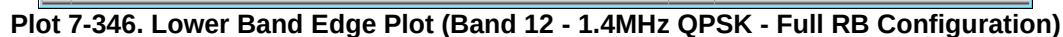


Plot 7-344. Lower Band Edge Plot (Band 71 - 20MHz QPSK - Full RB Configuration)

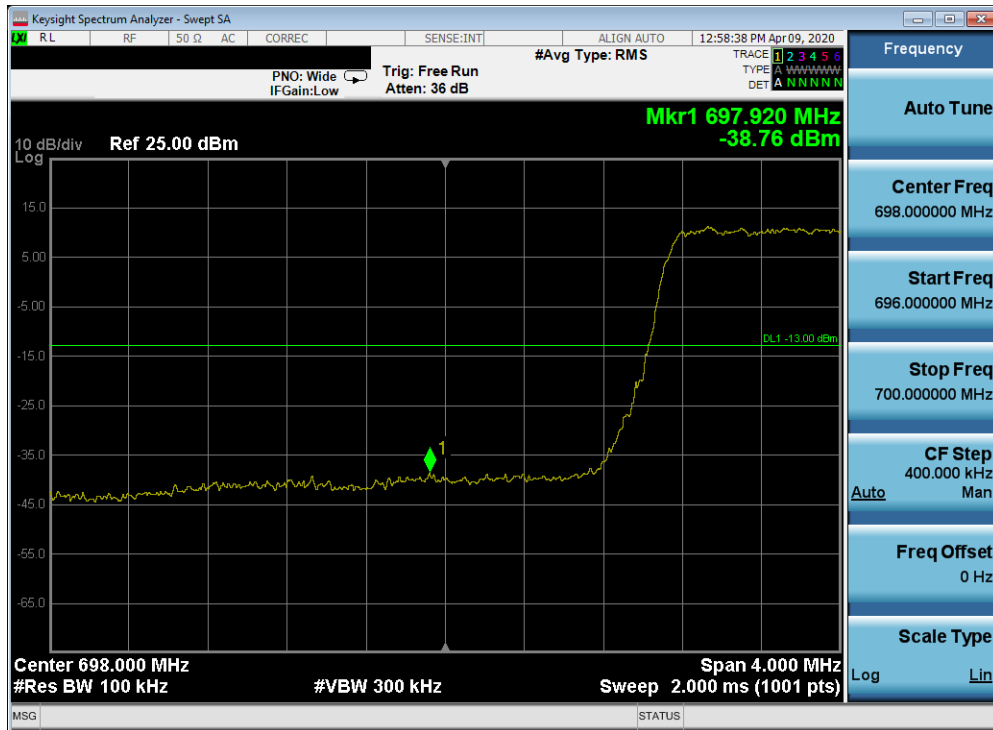


Plot 7-345. Upper Band Edge Plot (Band 71 - 20MHz QPSK - Full RB Configuration)

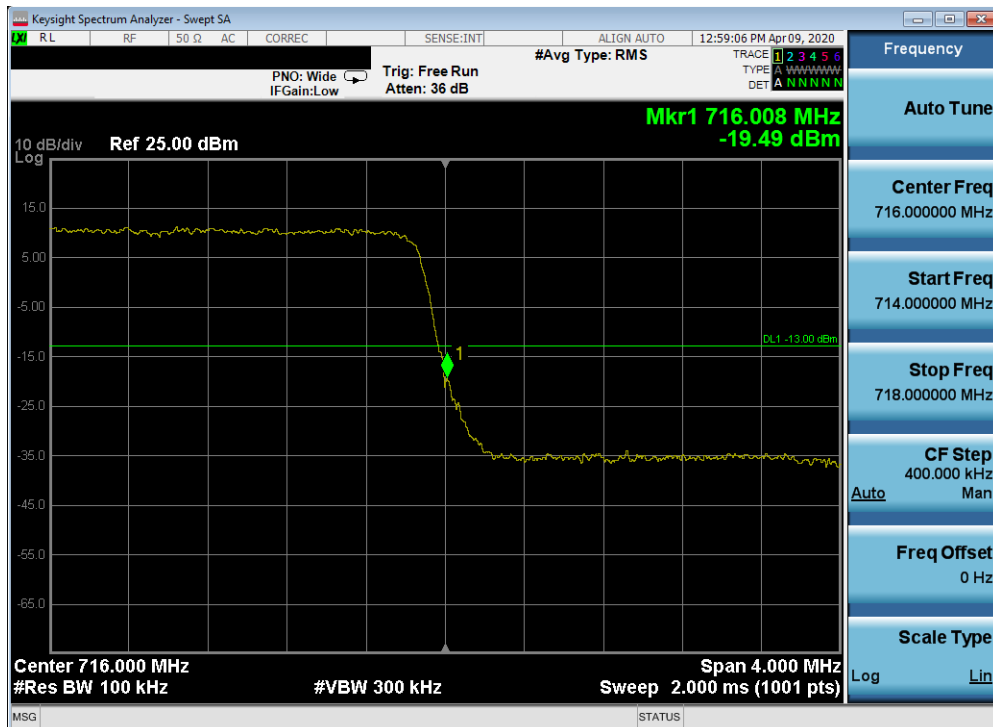
FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 200 of 438

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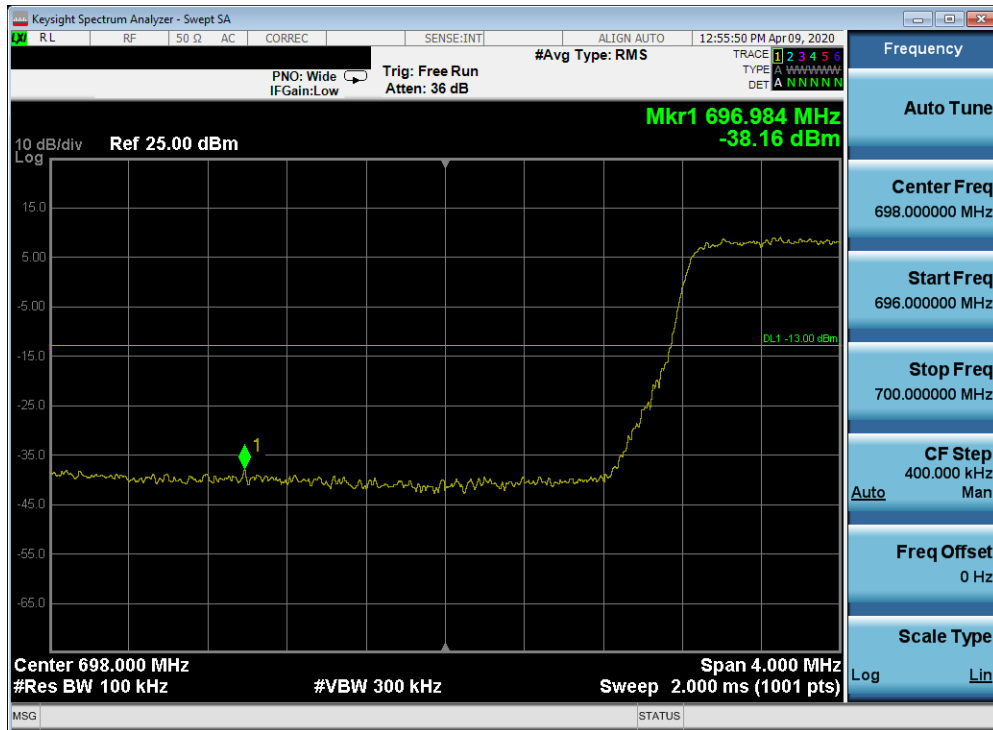


Plot 7-348. Lower Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

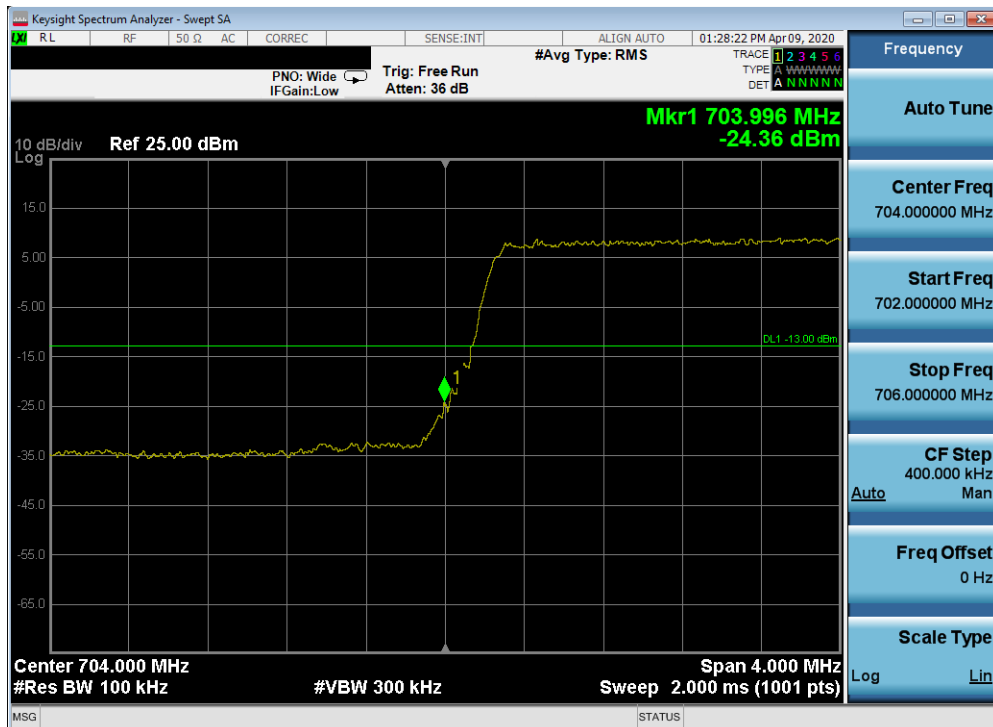


Plot 7-349. Upper Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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Plot 7-350. Lower Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)

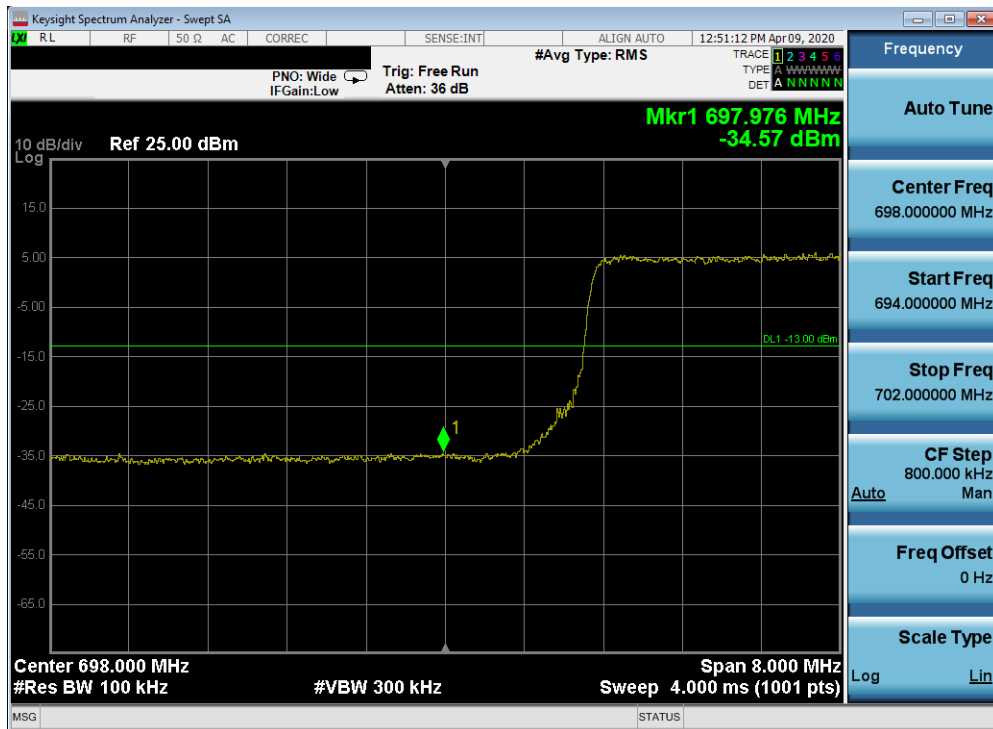


Plot 7-351. Lower Band Edge Plot (Band 17 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 203 of 438

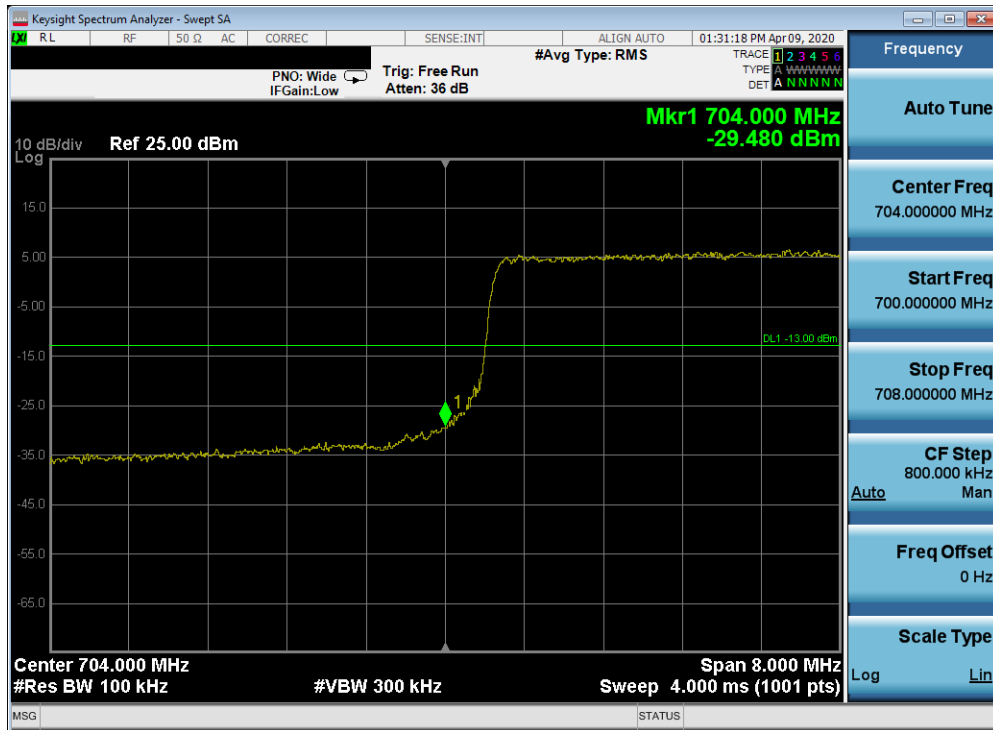


Plot 7-352. Upper Band Edge Plot (Band 12/17 - 5.0MHz QPSK - Full RB Configuration)

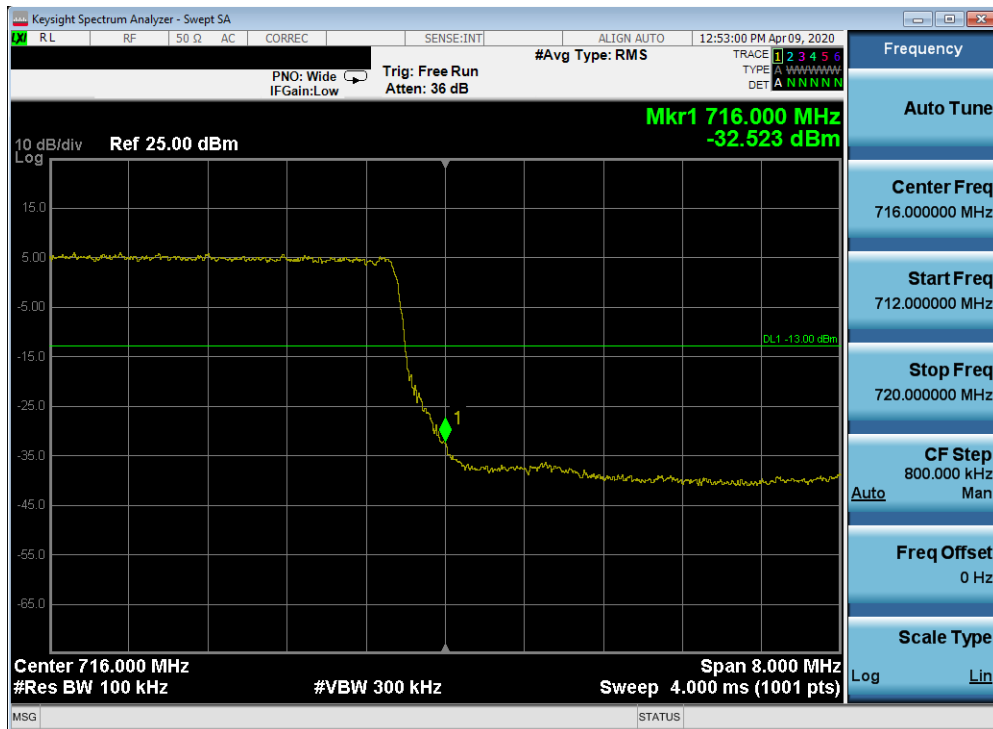


Plot 7-353. Lower Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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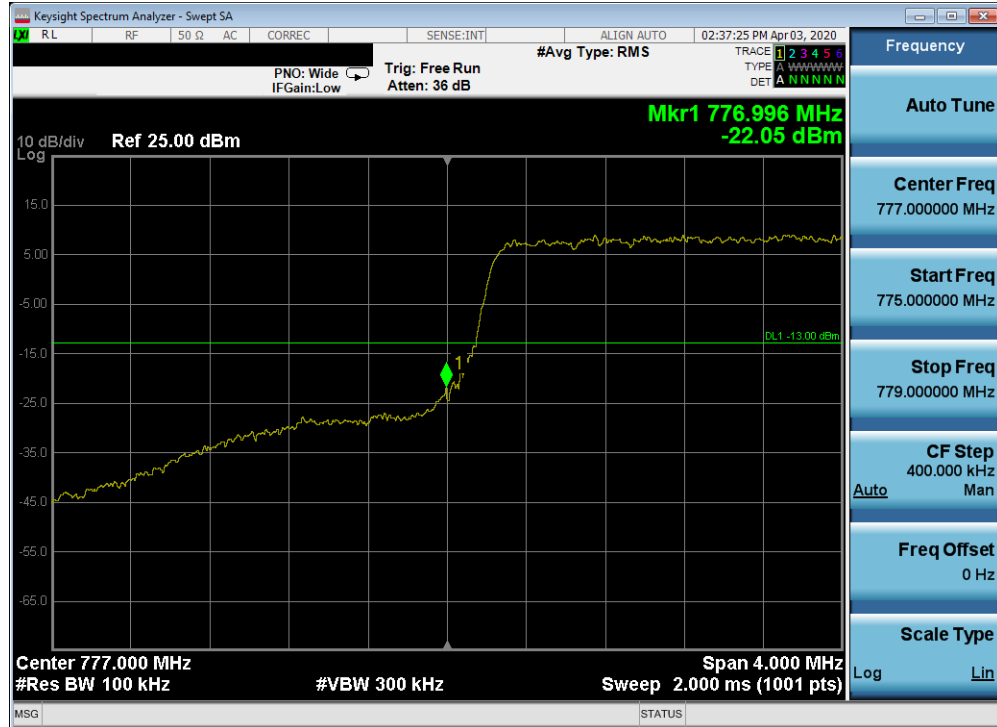
Plot 7-354. Lower Band Edge Plot (Band 17 - 10.0MHz QPSK - Full RB Configuration)



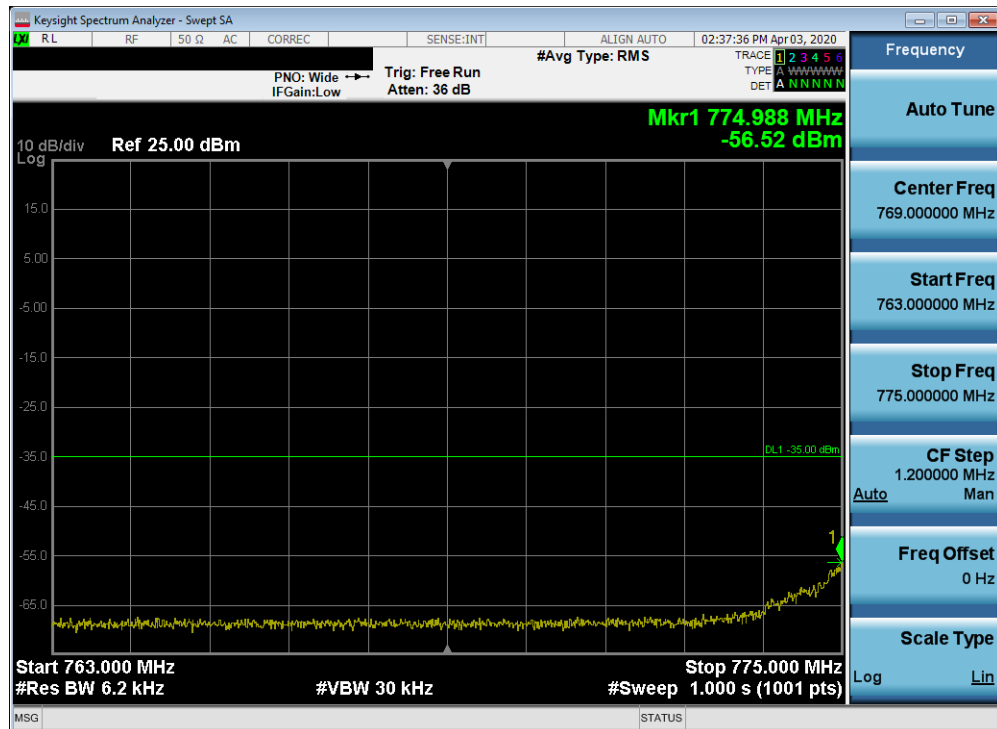
Plot 7-355. Upper Band Edge Plot (Band 12/17 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 205 of 438

Band 13

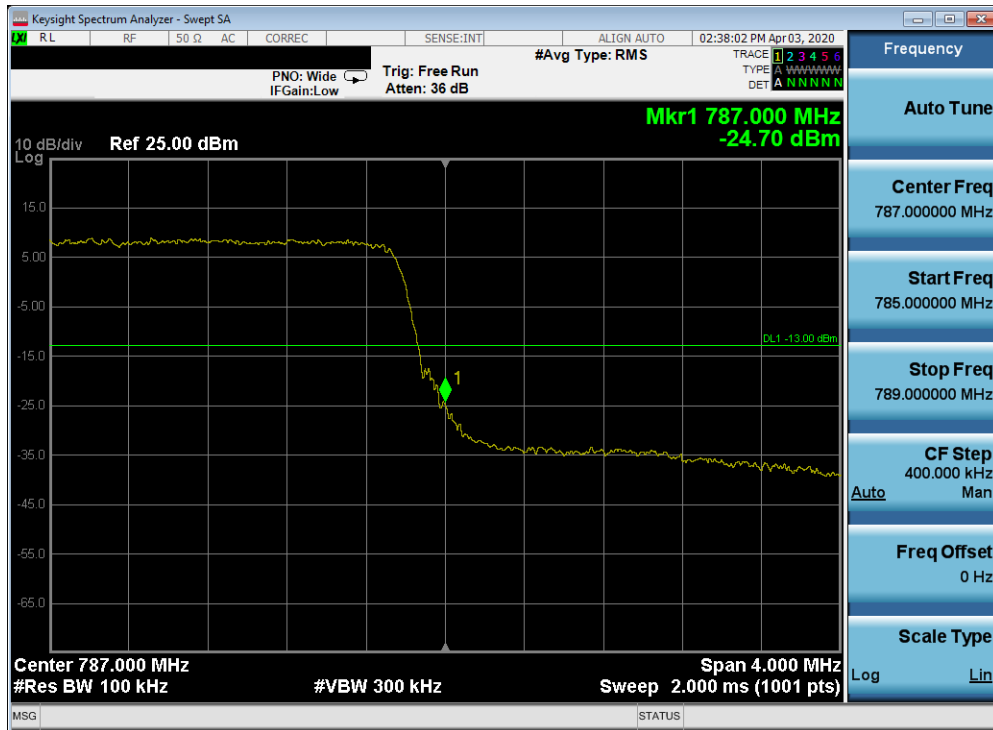


Plot 7-356. Lower Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

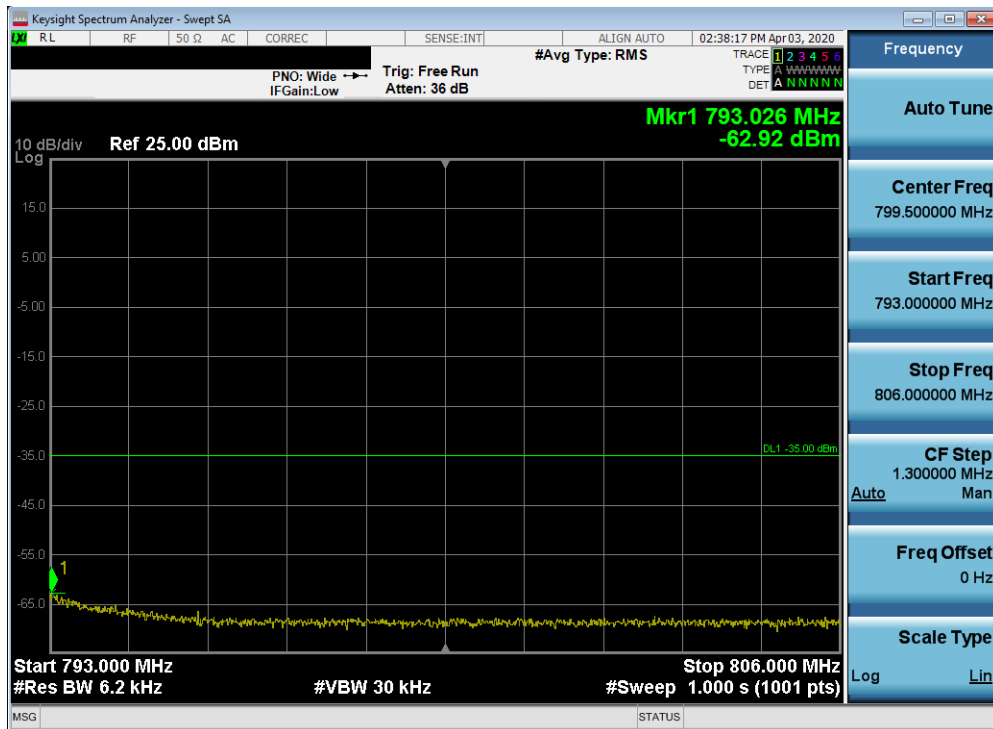


Plot 7-357. Lower Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
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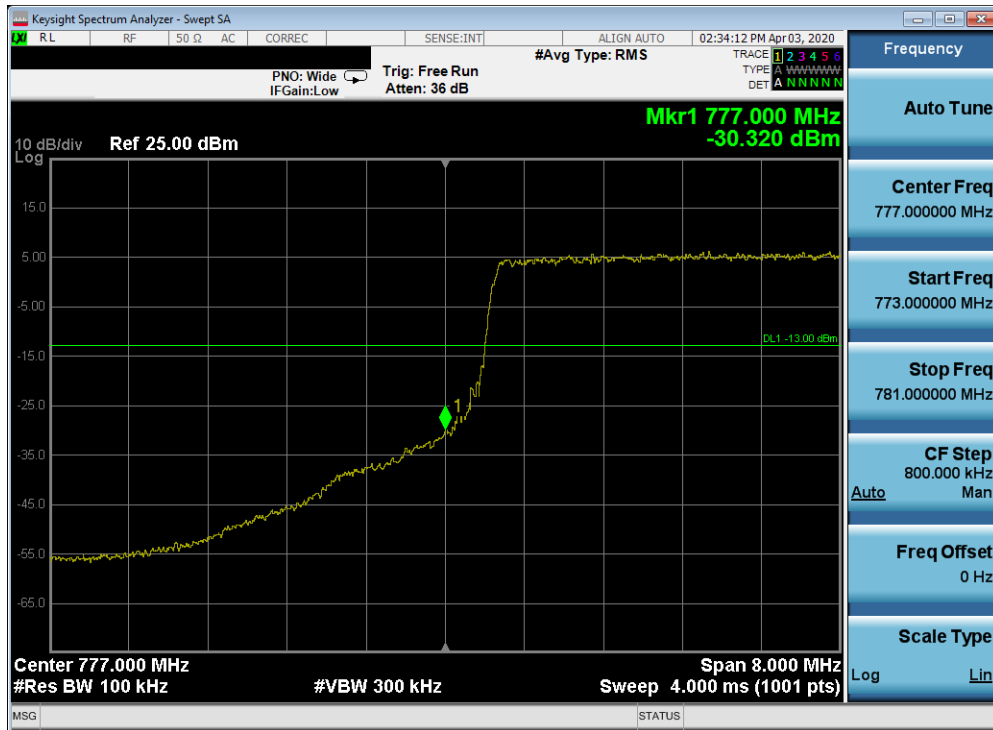


Plot 7-358. Upper Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

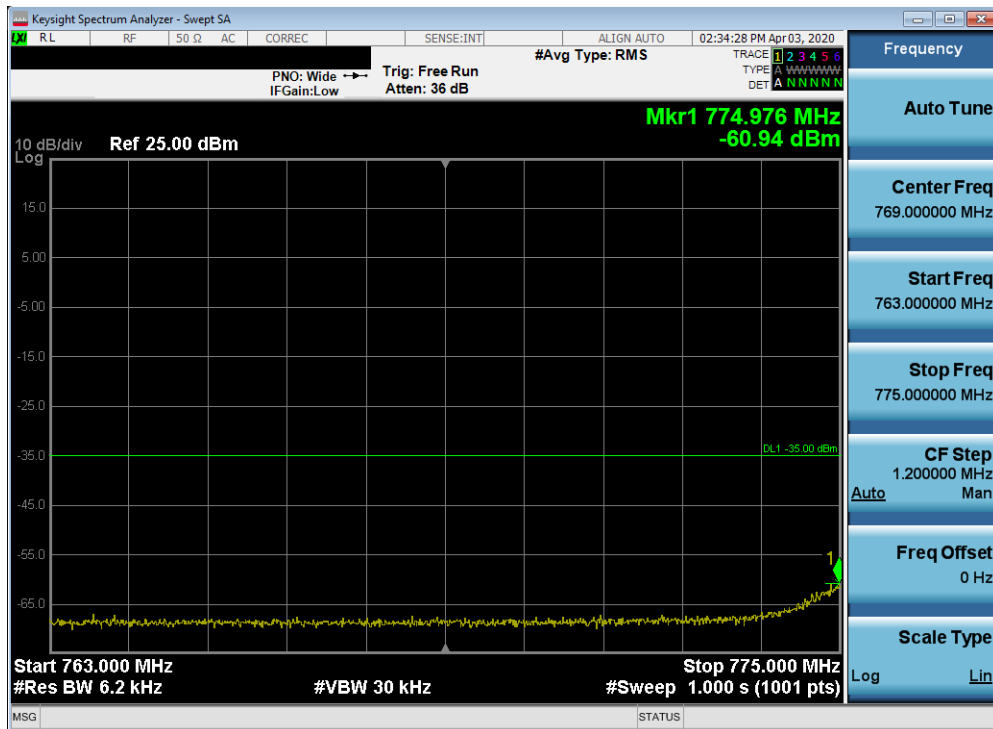


Plot 7-359. Upper Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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Plot 7-360. Lower Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

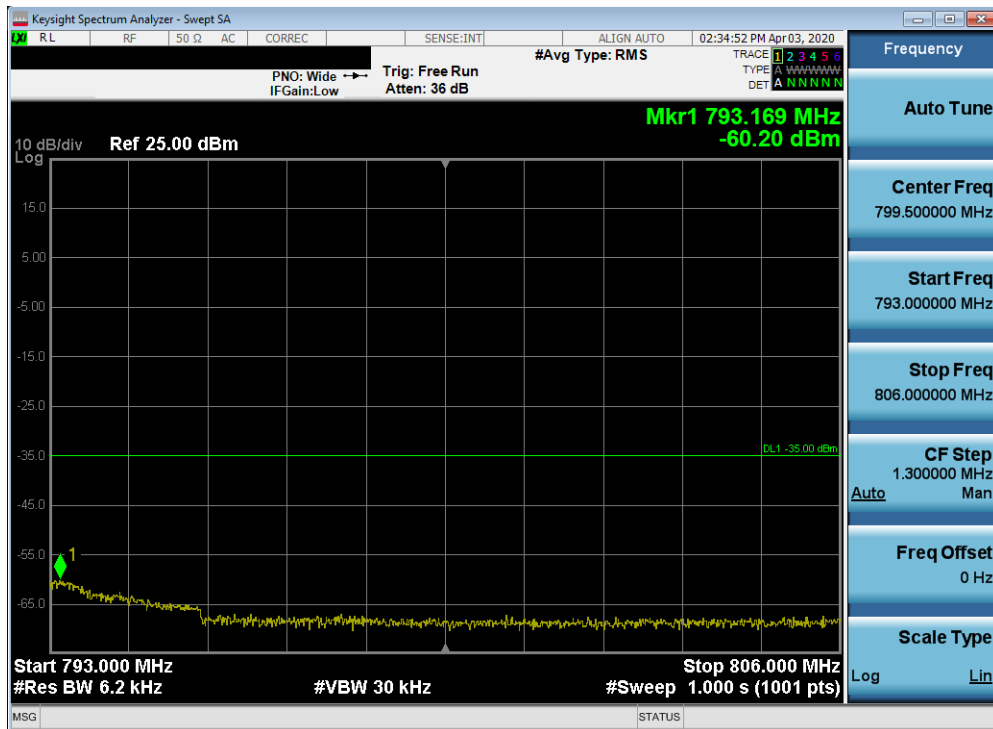


Plot 7-361. Lower Emission Mask Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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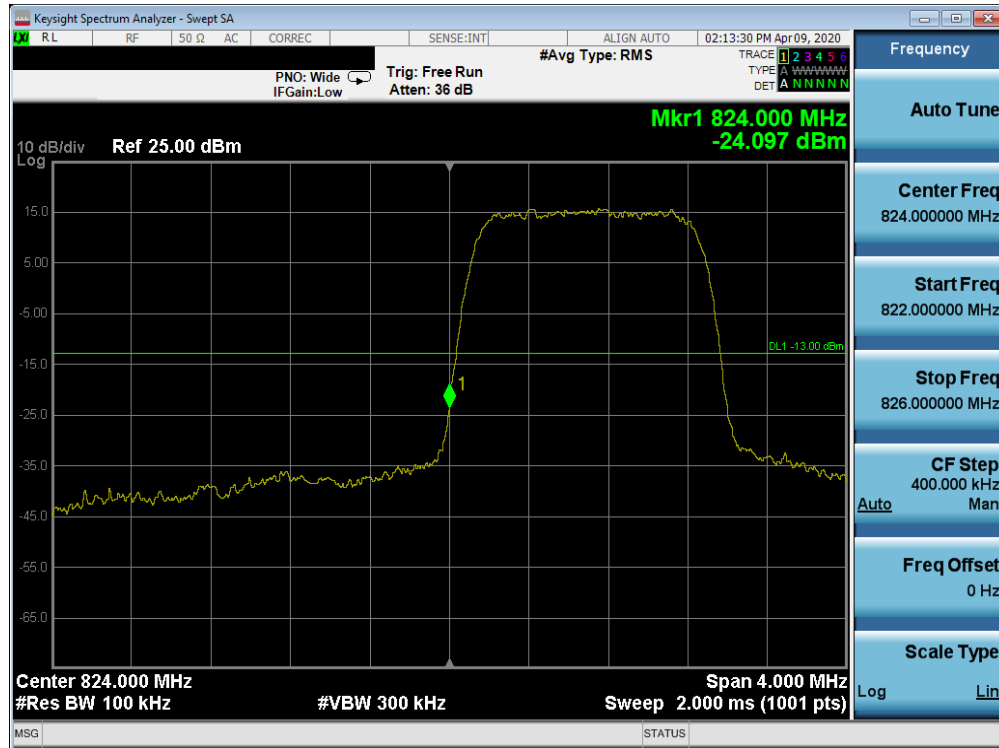
Plot 7-362. Upper Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



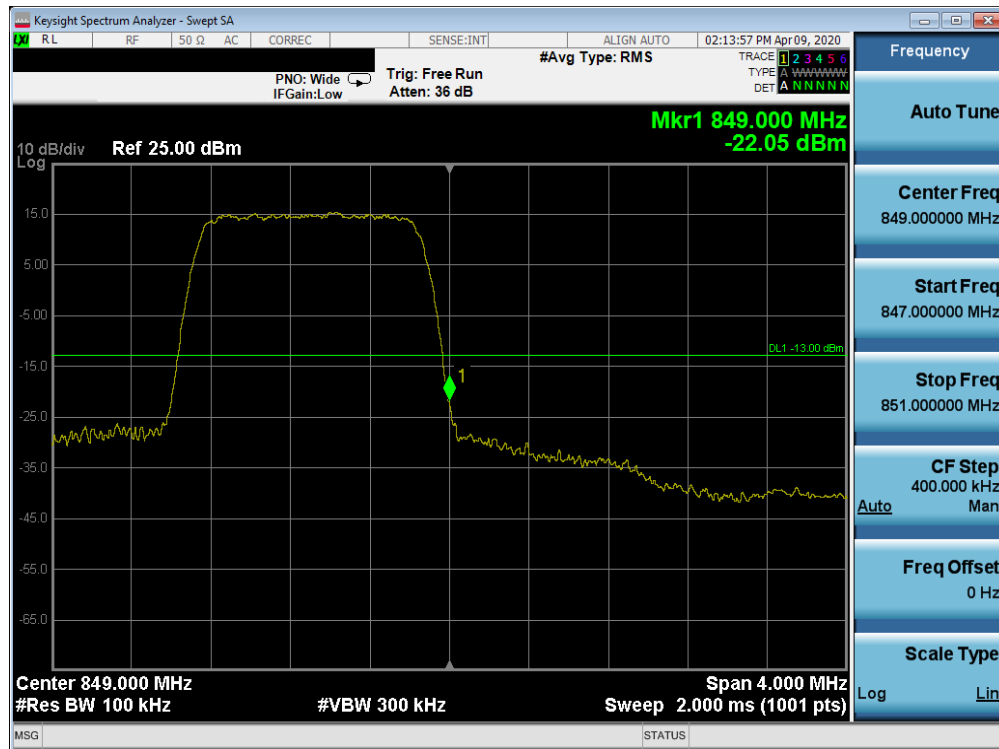
Plot 7-363. Upper Emission Mask Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 209 of 438

Band 5

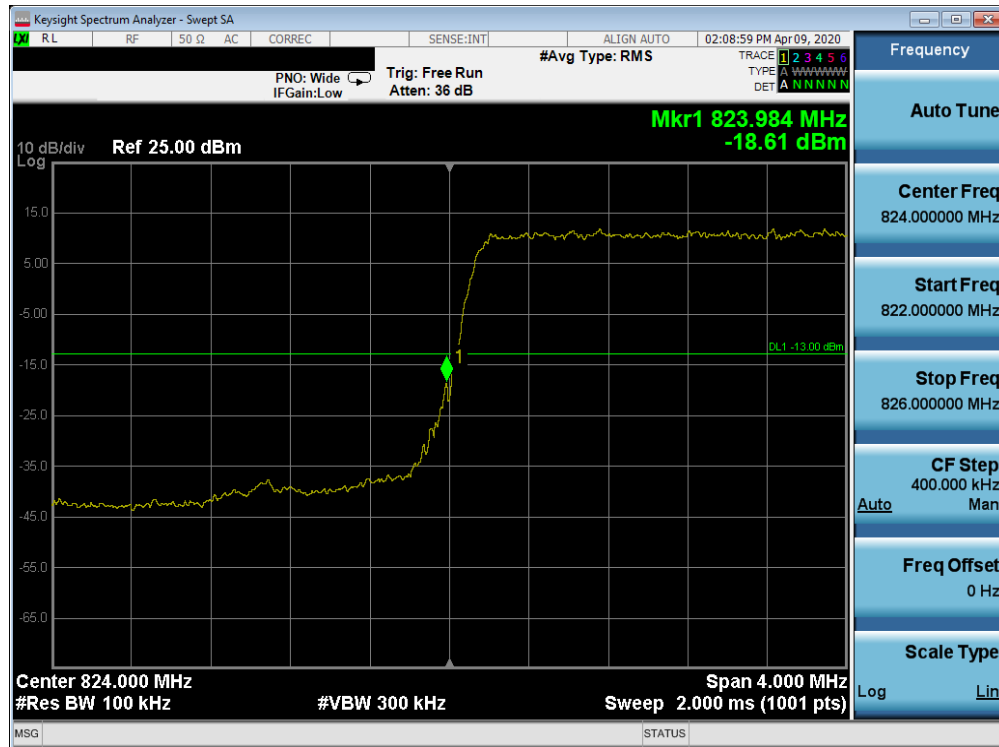


Plot 7-364. Lower Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)

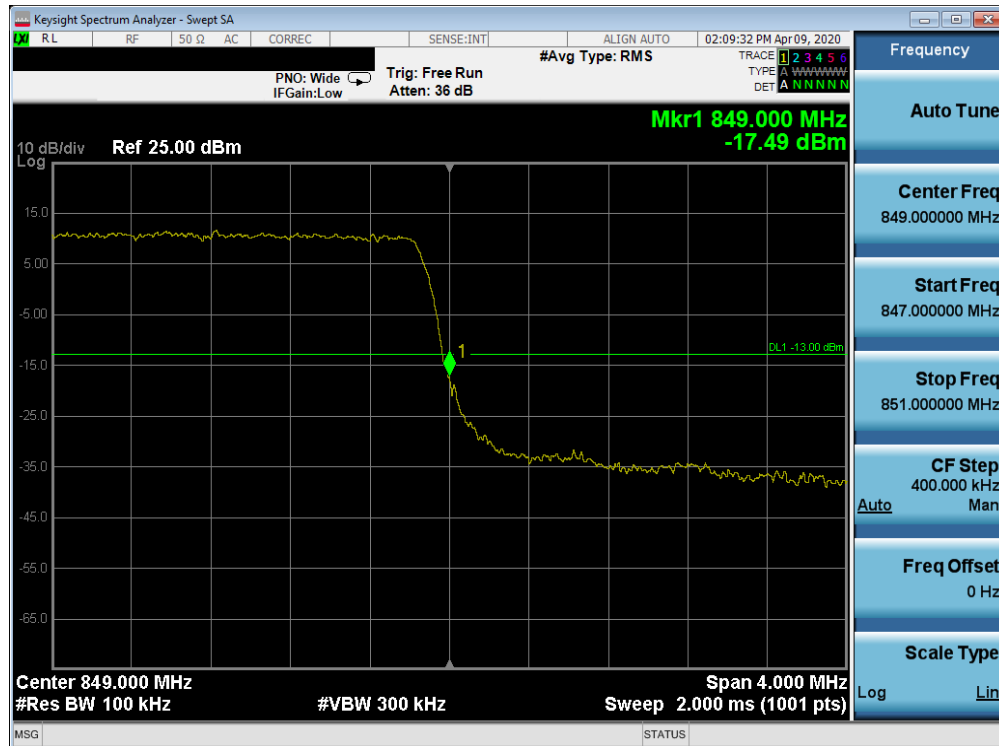


Plot 7-365. Upper Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 210 of 438

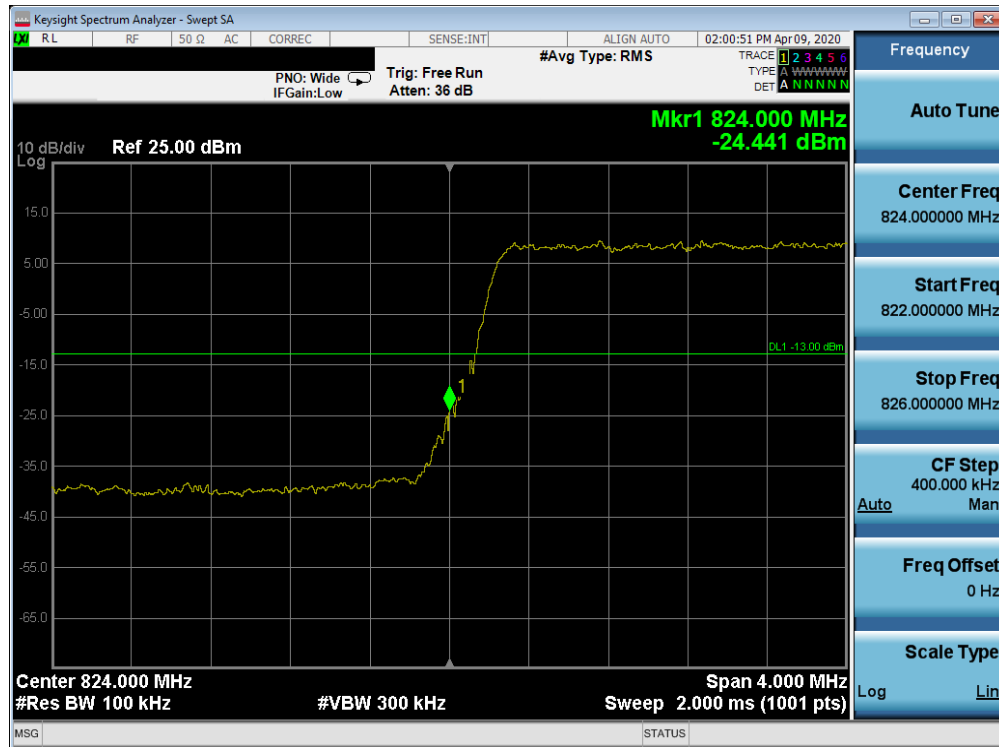


Plot 7-366. Lower Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)

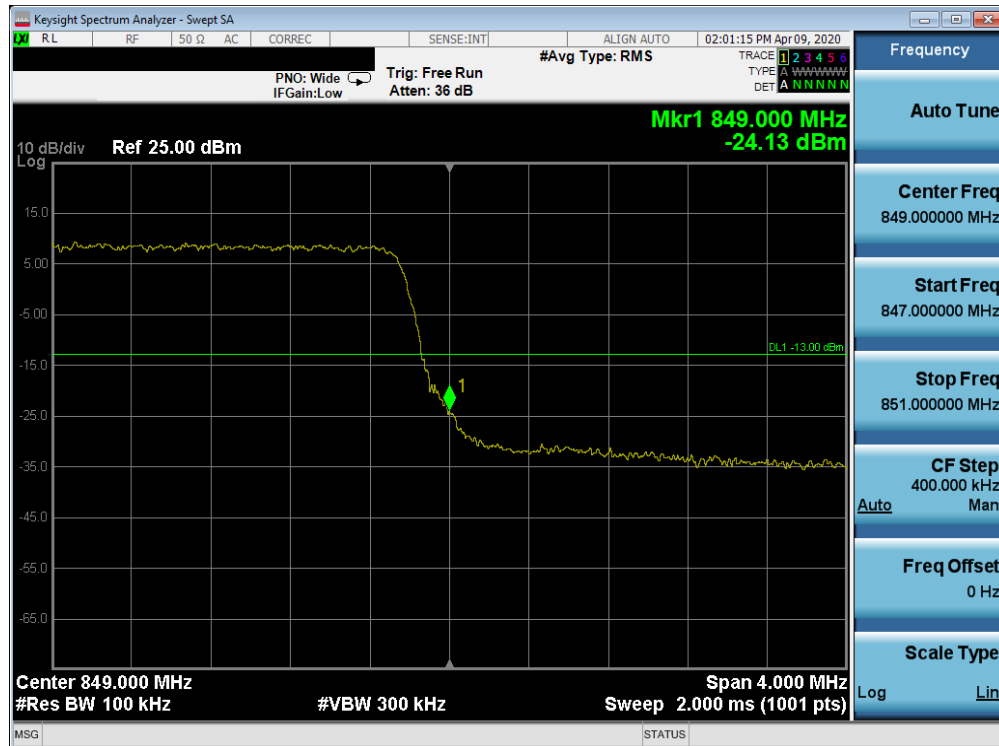


Plot 7-367. Upper Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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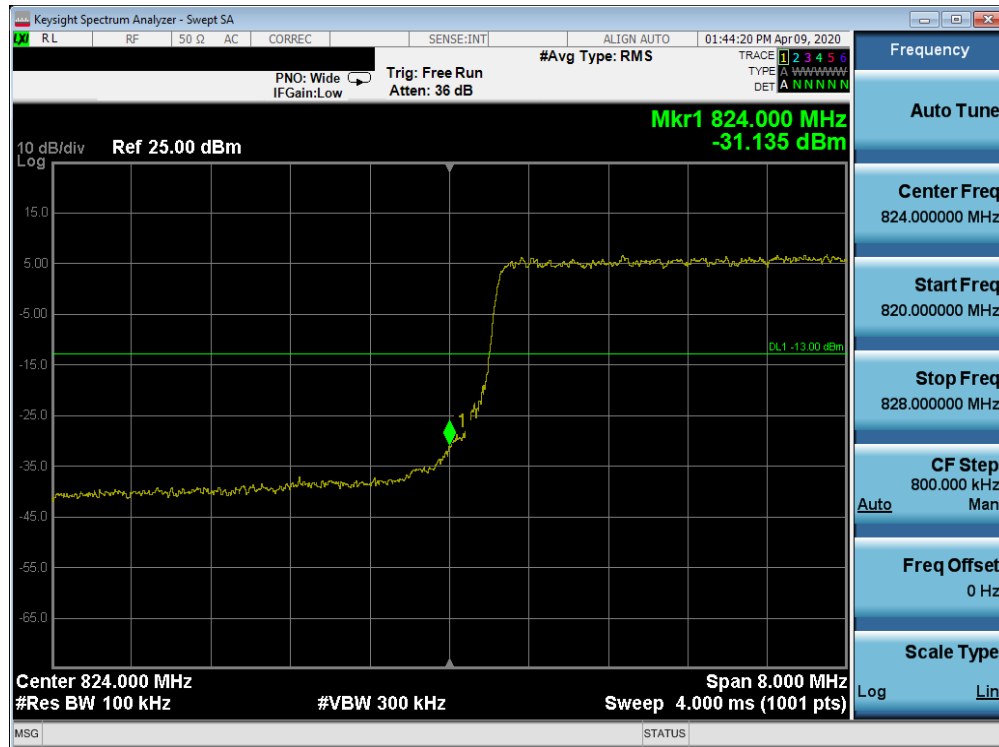


Plot 7-368. Lower Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)

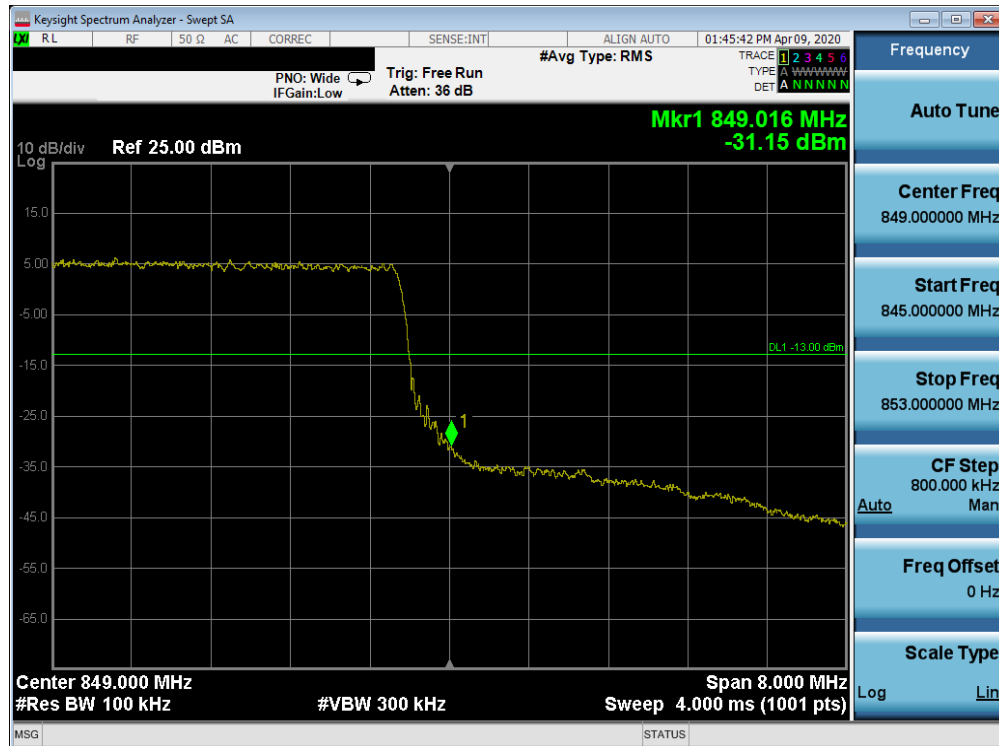


Plot 7-369. Upper Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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Plot 7-370. Lower Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-371. Upper Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFG900UM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2003200048-03.ZNF	Test Dates: 3/23-5/29/2020	EUT Type: Portable Handset		Page 213 of 438