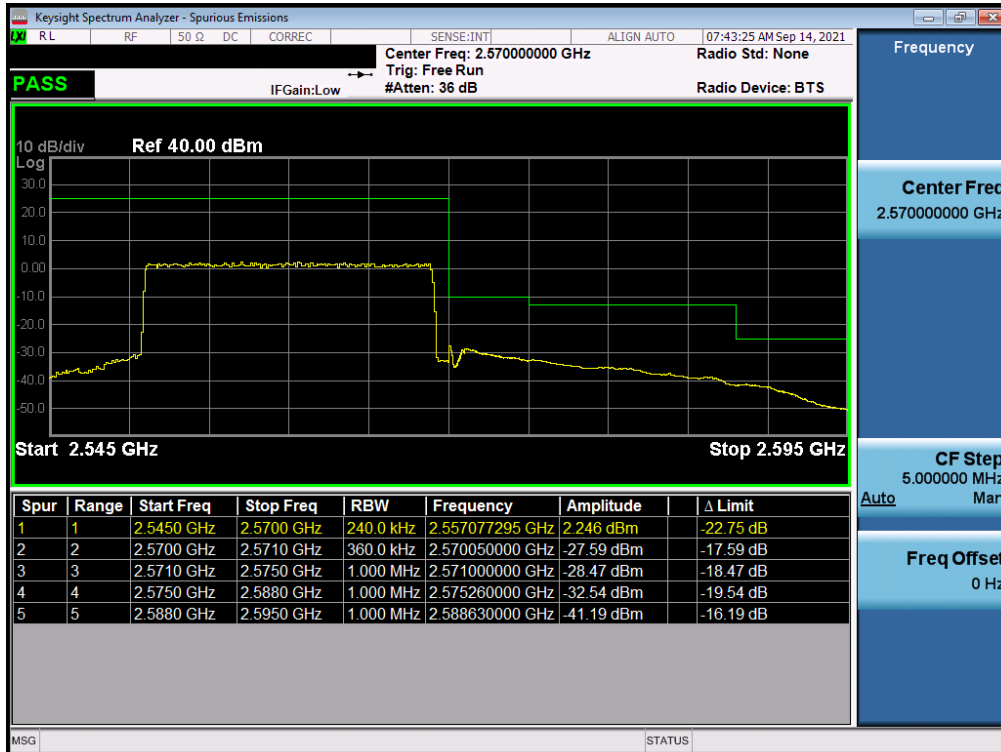
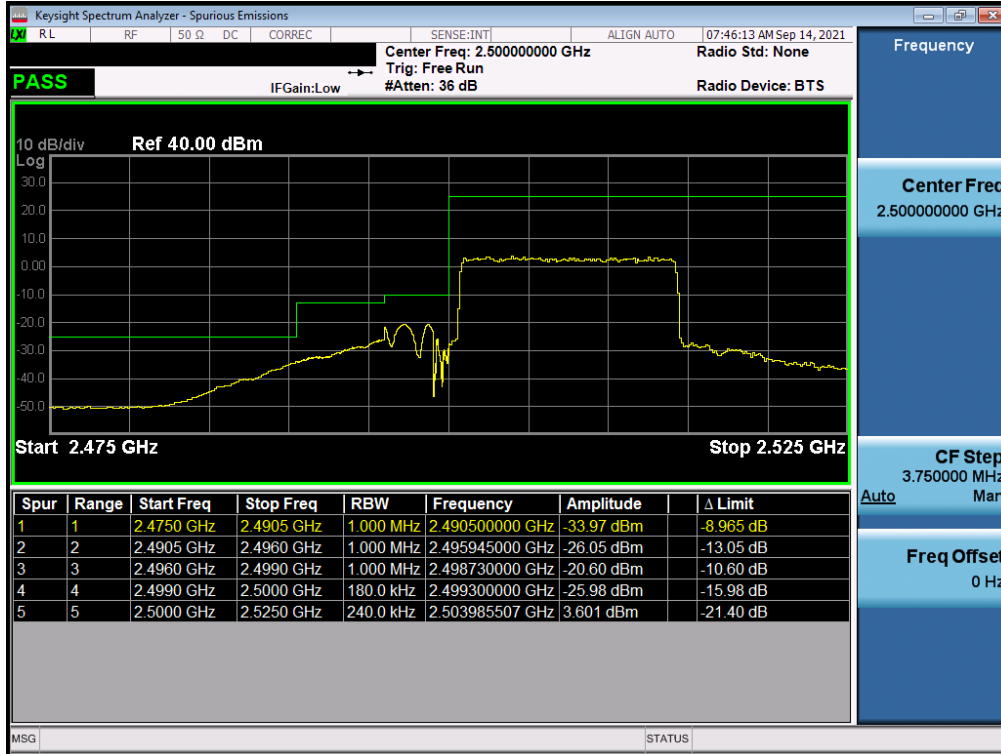


Plot 7-215. Lower ACP Plot (LTE Band 7 - 20MHz QPSK - Full RB)

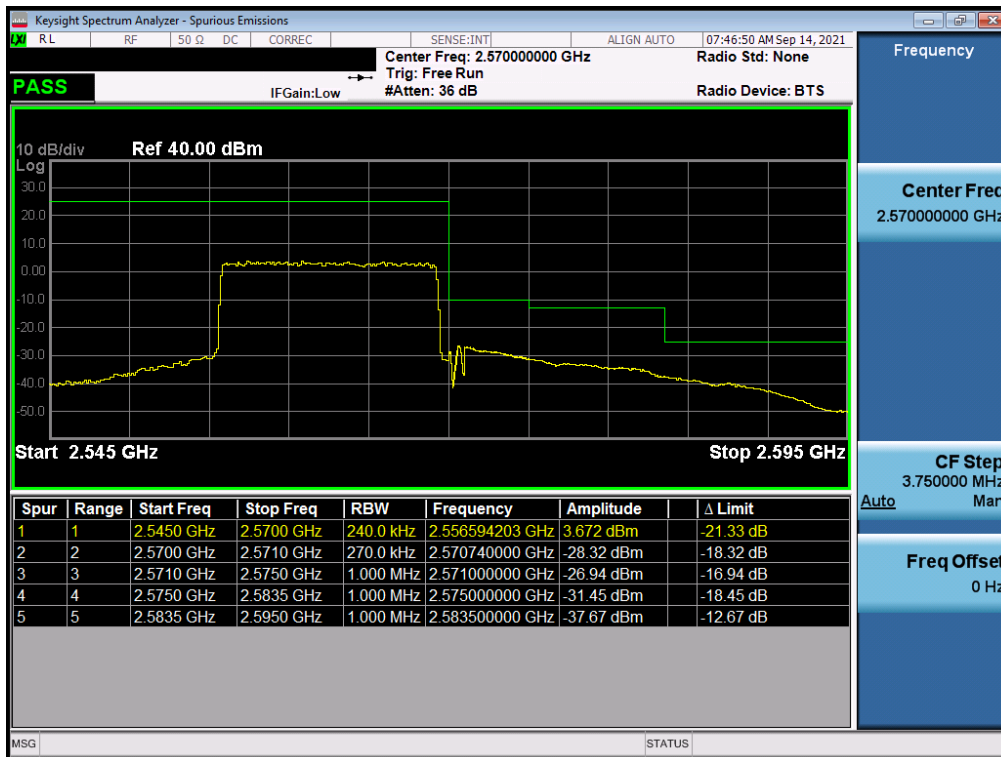


Plot 7-216. Upper ACP Plot (LTE Band 7 - 20MHz QPSK - Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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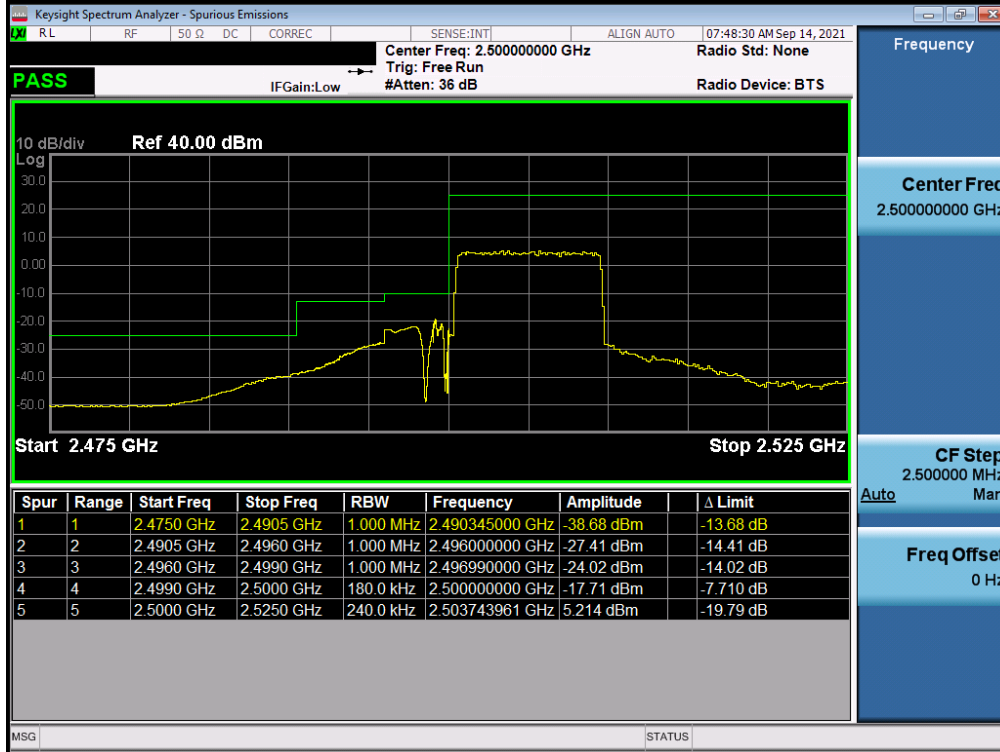


Plot 7-217. Lower ACP Plot (LTE Band 7 - 15MHz QPSK - Full RB)

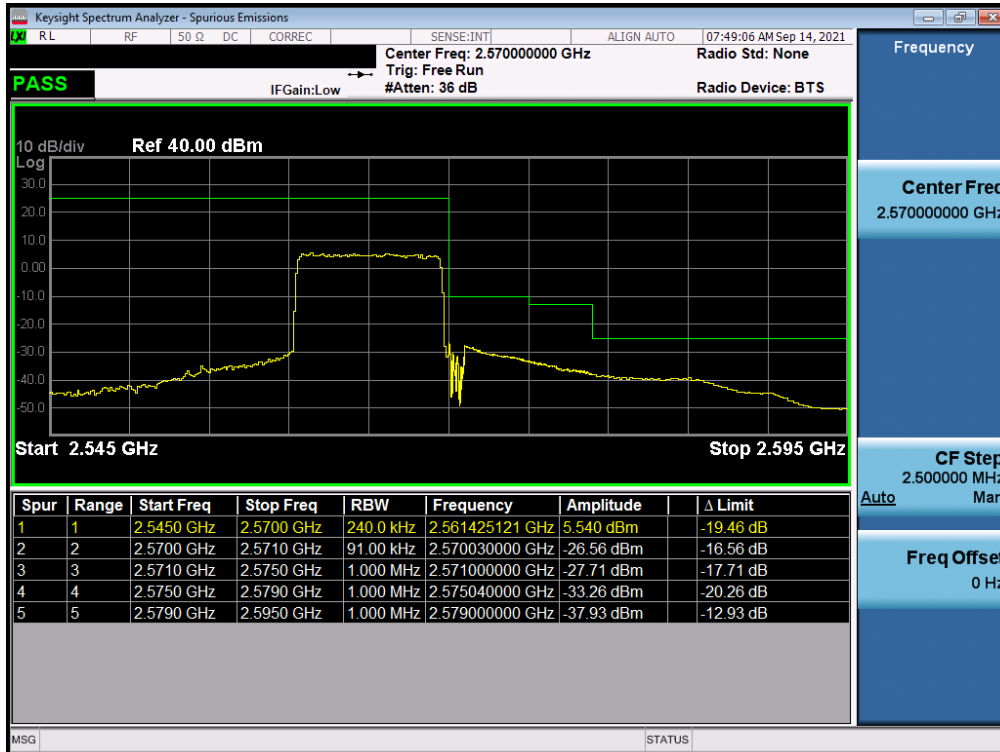


Plot 7-218. Upper ACP Plot (LTE Band 7 - 15MHz QPSK - Full RB)




FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 136 of 231

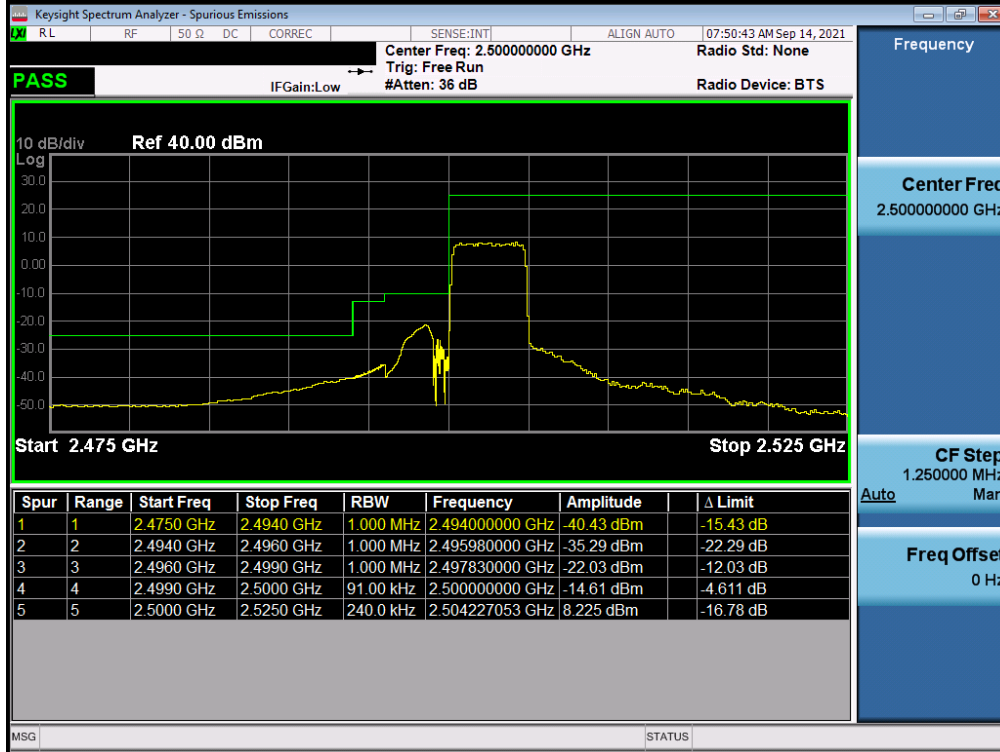


Plot 7-219. Lower ACP Plot (LTE Band 7 - 10MHz QPSK - Full RB)

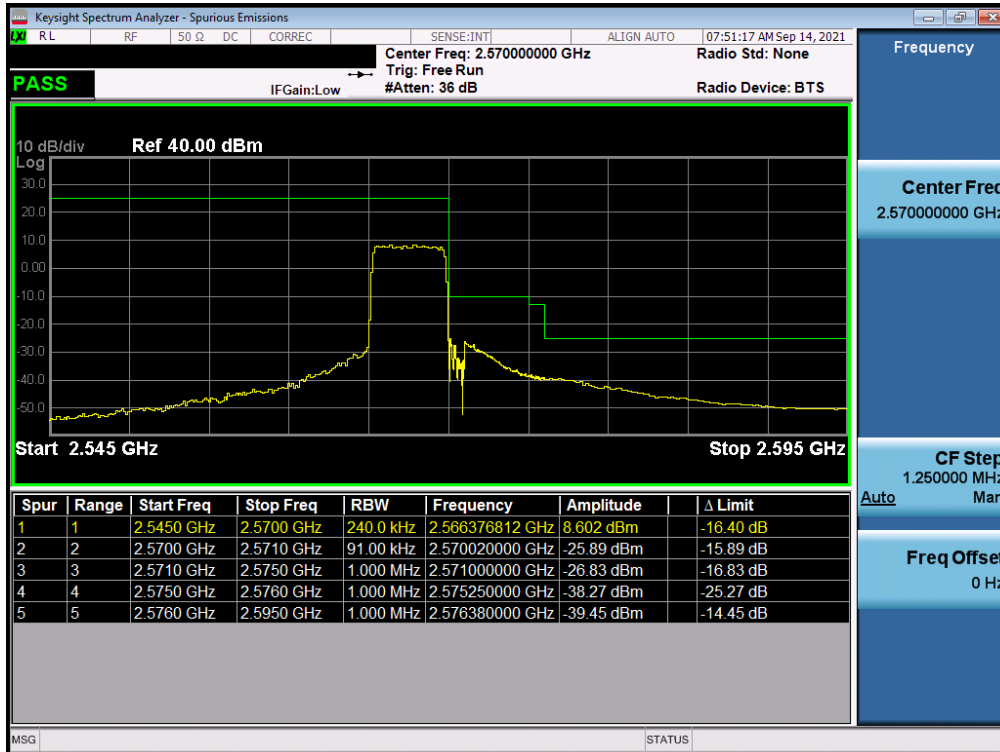


Plot 7-220. Upper ACP Plot (LTE Band 7 - 10MHz QPSK - Full RB)

FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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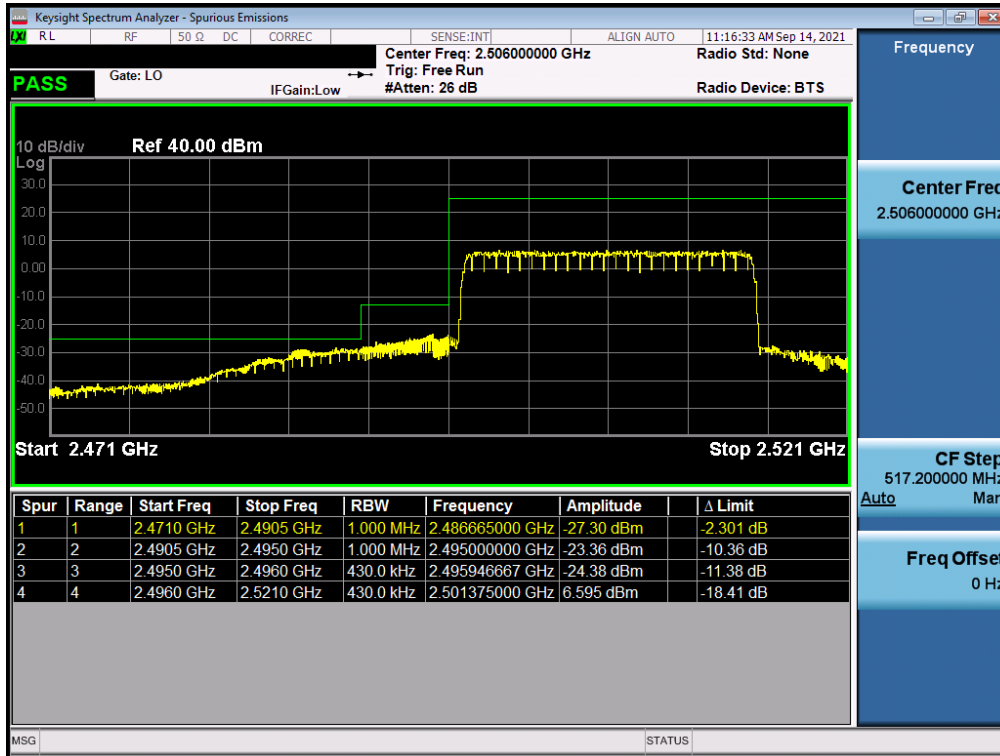
Plot 7-221. Lower ACP Plot (LTE Band 7 - 5MHz QPSK - Full RB)



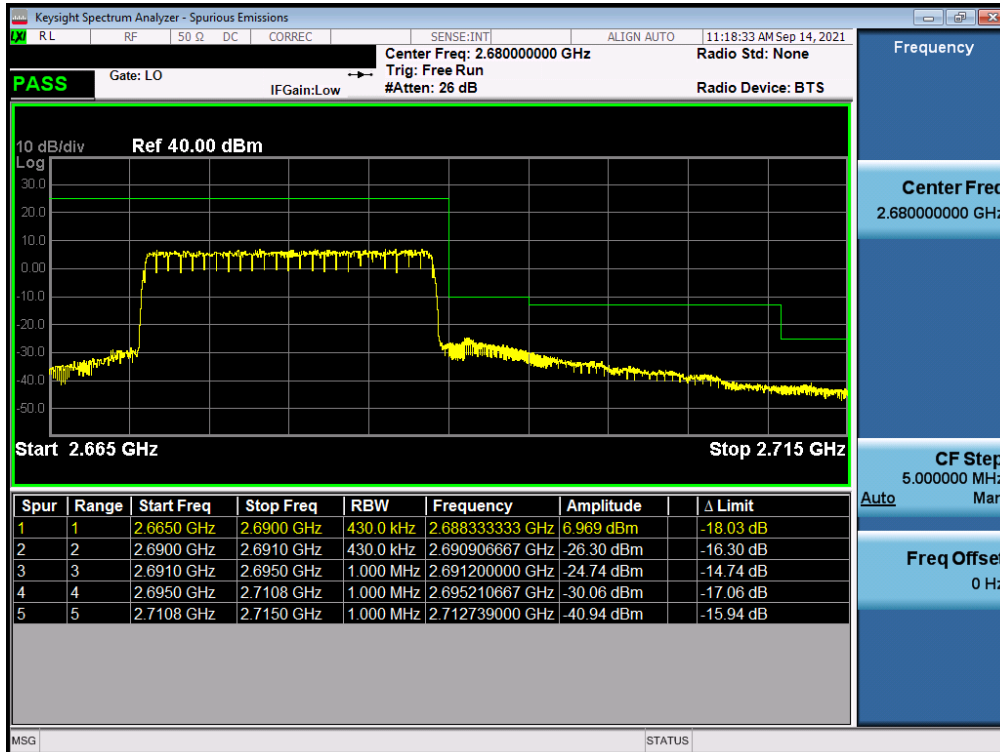
Plot 7-222. Upper ACP Plot (LTE Band 7 - 5MHz QPSK - Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41(PC2)

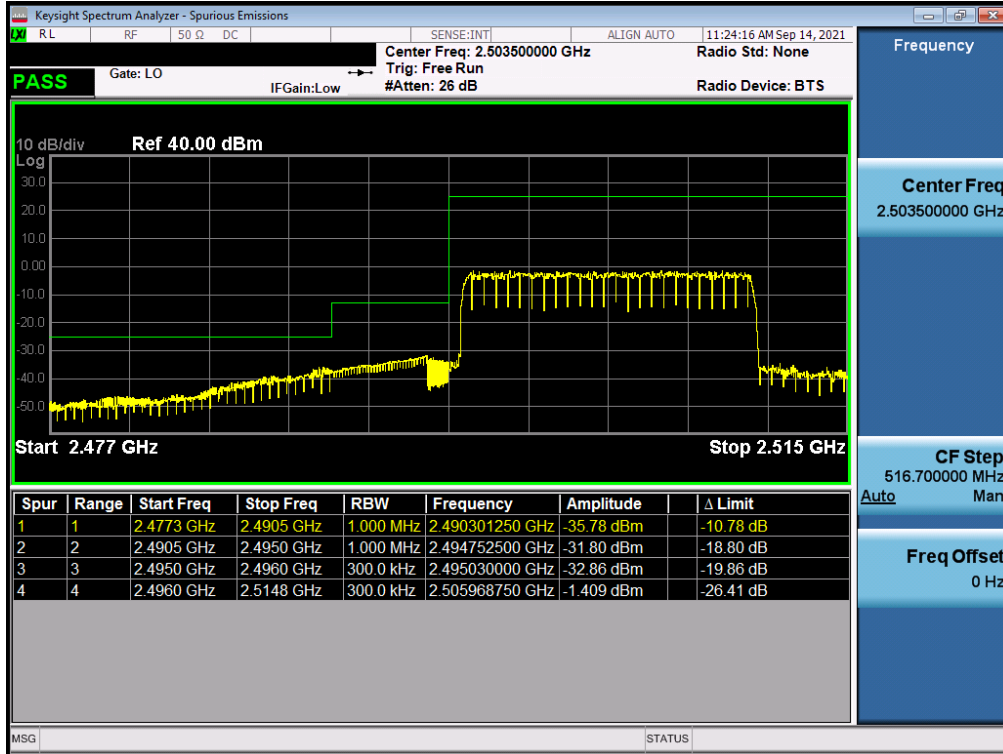


Plot 7-223. Lower ACP Plot (LTE Band 41(PC2) - 20MHz QPSK - Full RB)

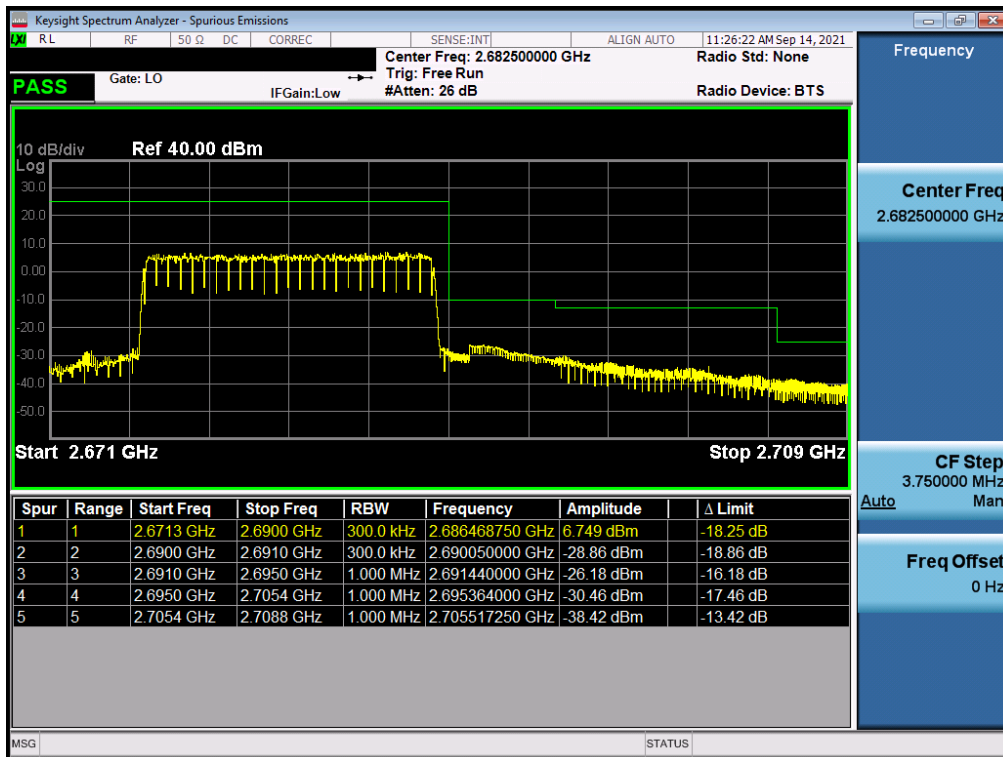


Plot 7-224. Upper ACP Plot (LTE Band 41(PC2) - 20MHz QPSK - Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 139 of 231

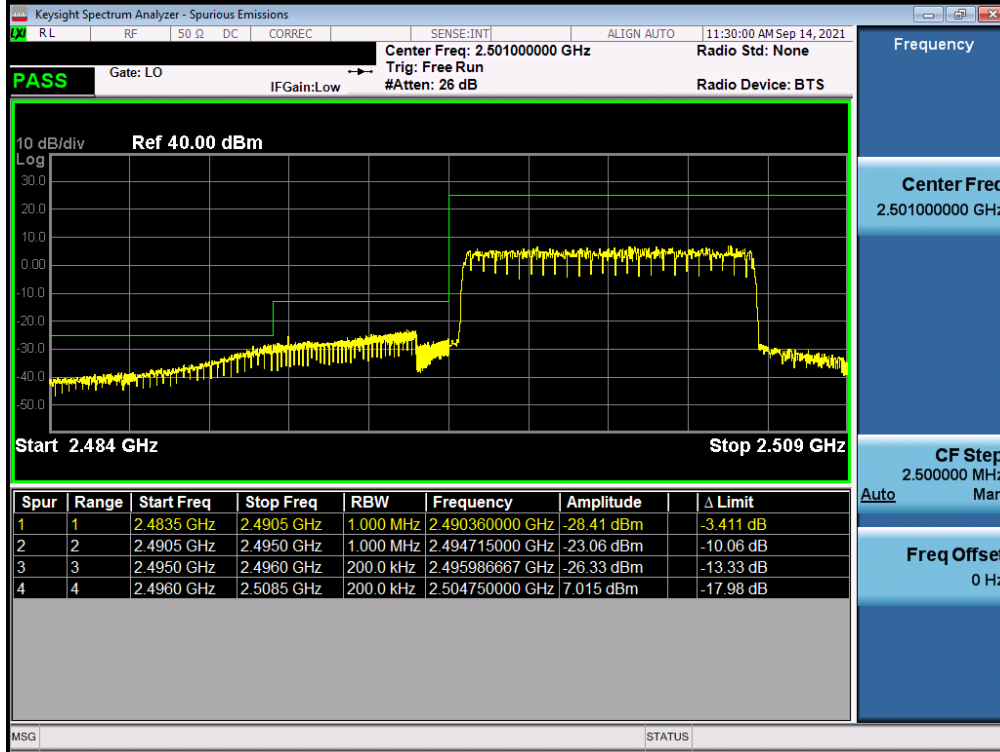


Plot 7-225. Lower ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB)

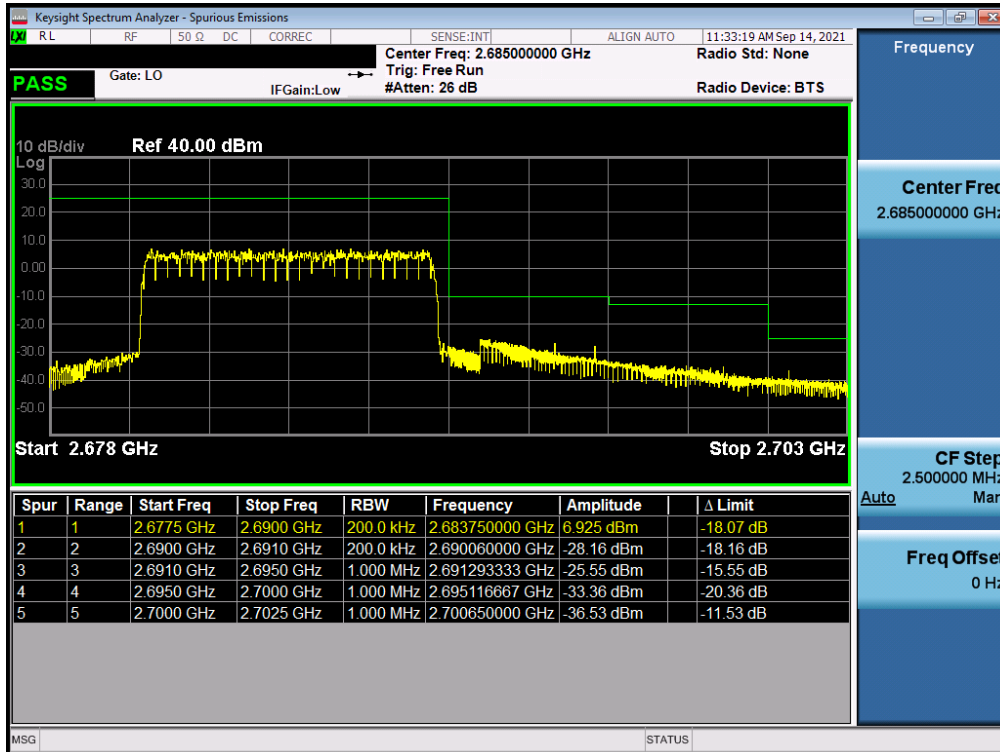


Plot 7-226. Upper ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 140 of 231

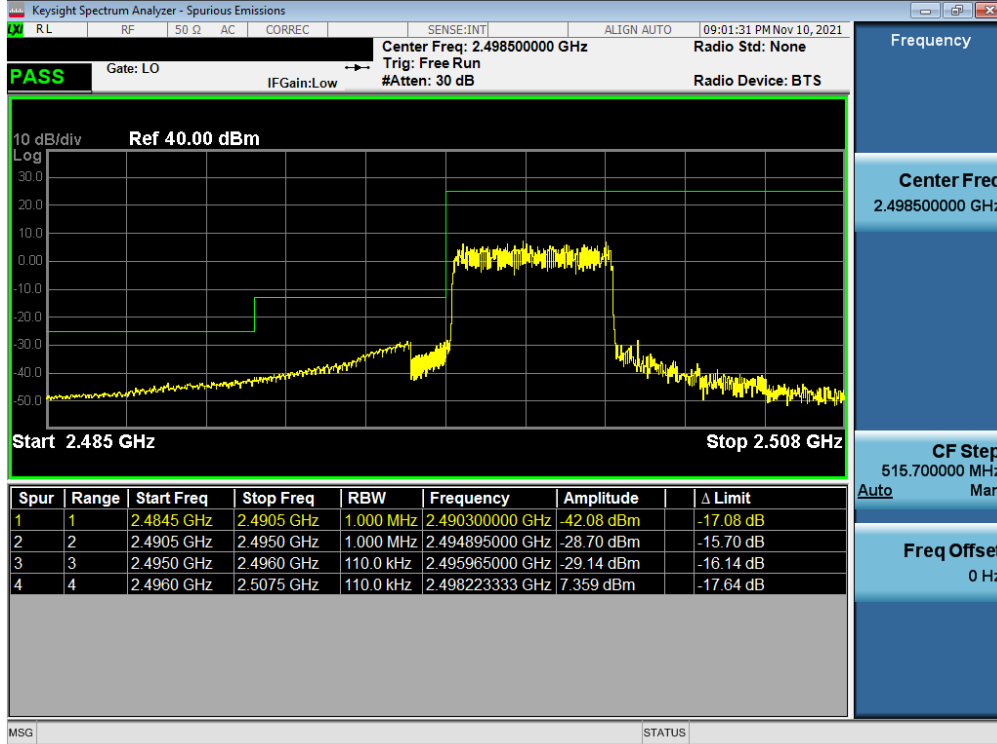


Plot 7-227. Lower ACP Plot (LTE Band 41(PC2) - 10MHz QPSK - Full RB)

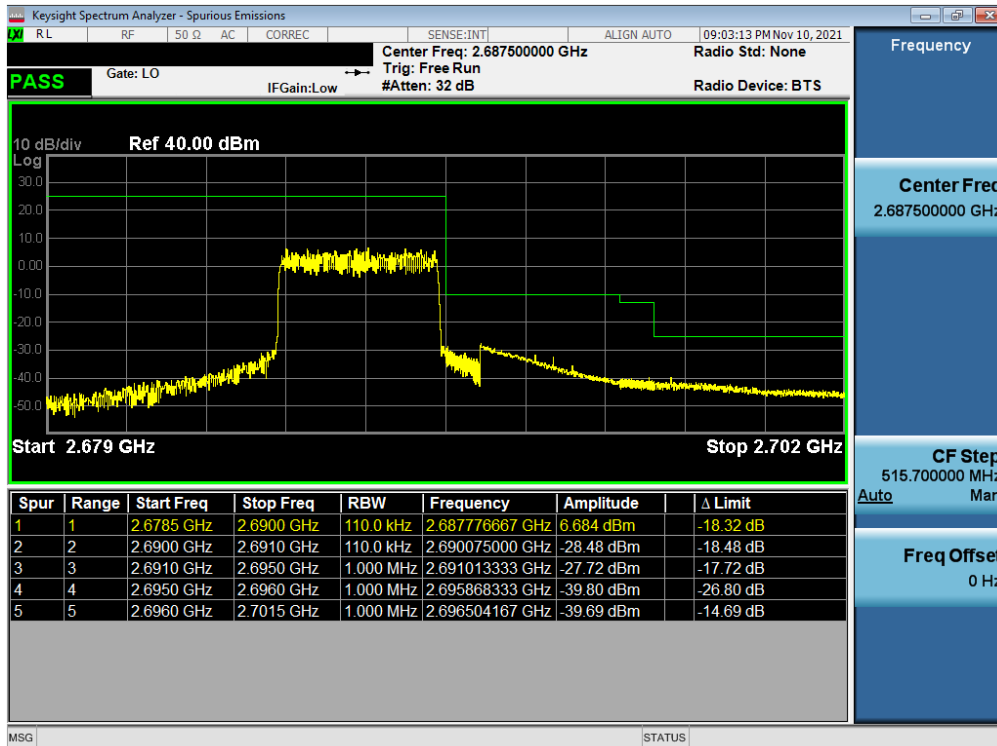


Plot 7-228. Upper ACP Plot (LTE Band 41(PC2) - 10MHz QPSK - Full RB)



FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 141 of 231



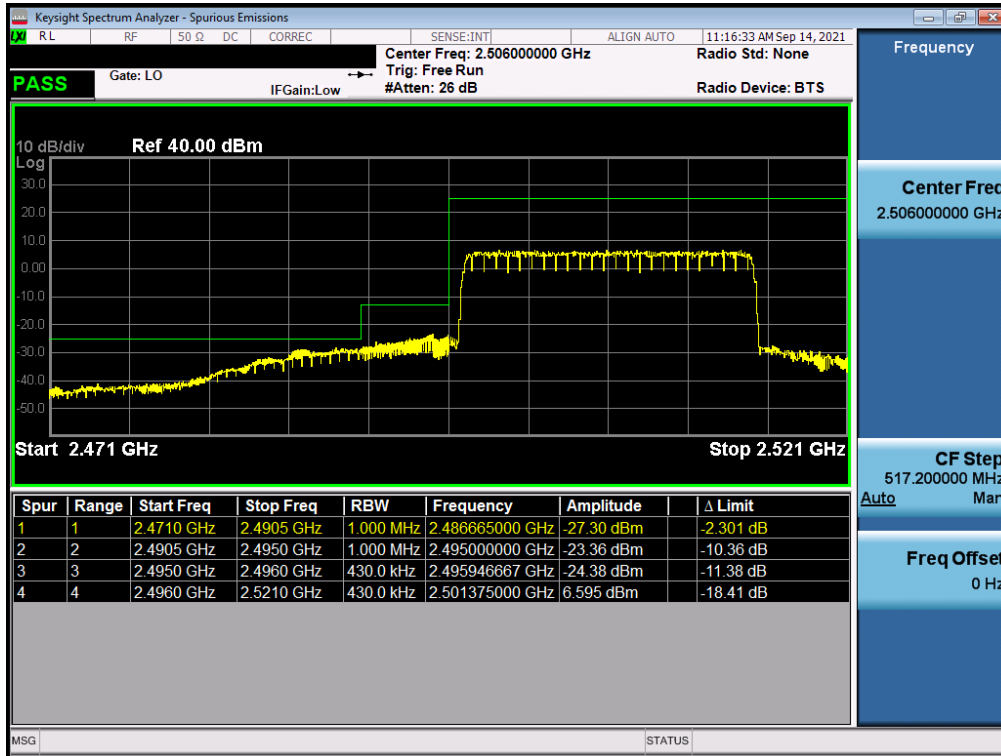
Plot 7-229. Lower ACP Plot (LTE Band 41(PC2) - 5MHz QPSK – Full RB)



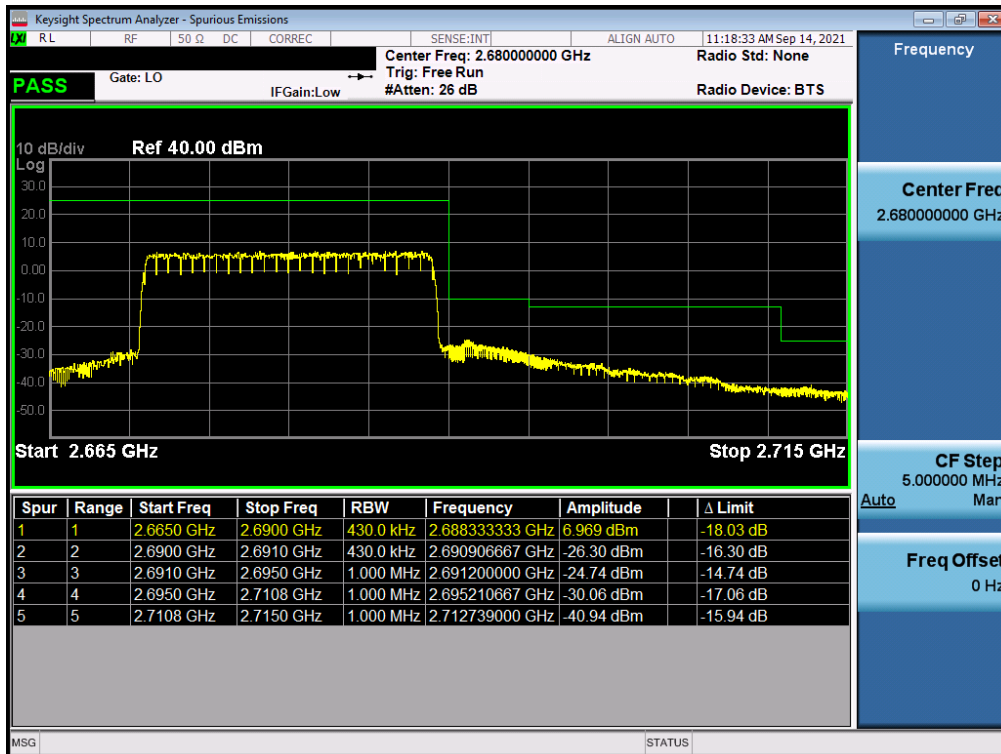
Plot 7-230. Upper ACP Plot (LTE Band 41(PC2) - 5MHz QPSK – Full RB)

FCC ID: A3LSMS908U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset	Page 142 of 231

LTE Band 41(PC3)

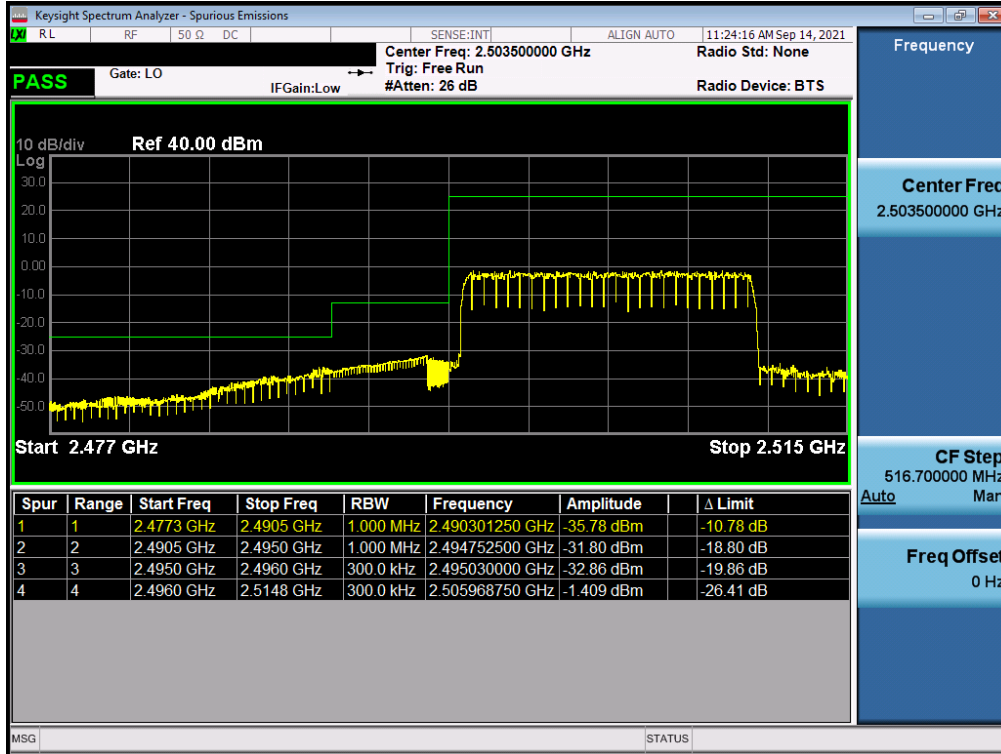


Plot 7-231. Lower ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB)

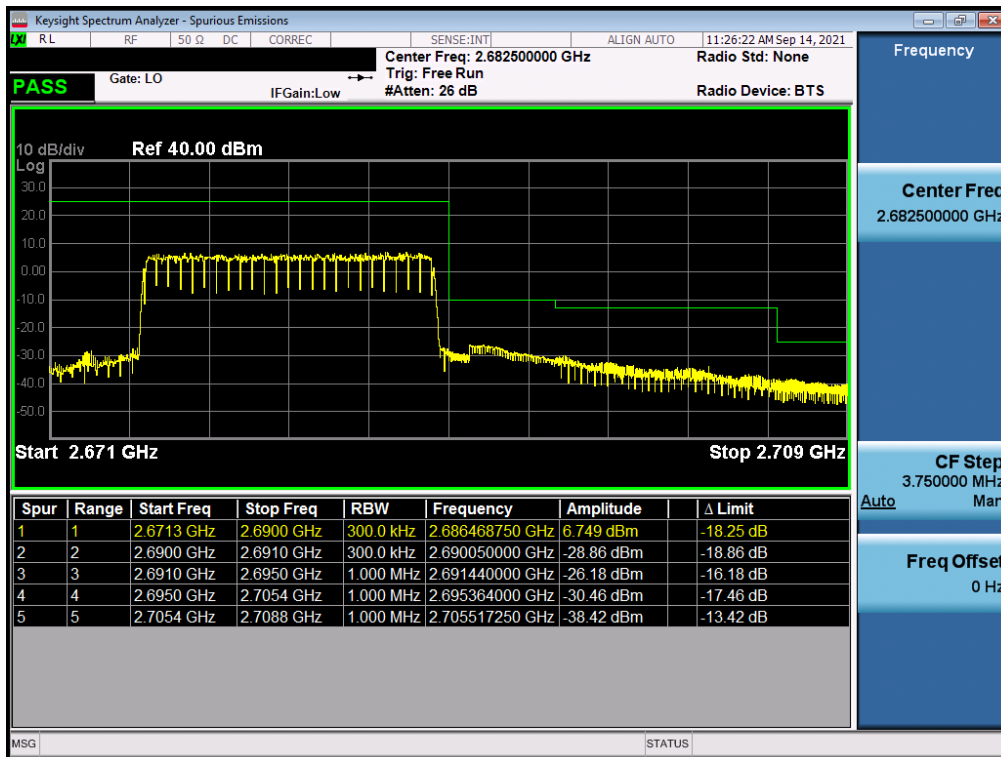


Plot 7-232. Upper ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 143 of 231

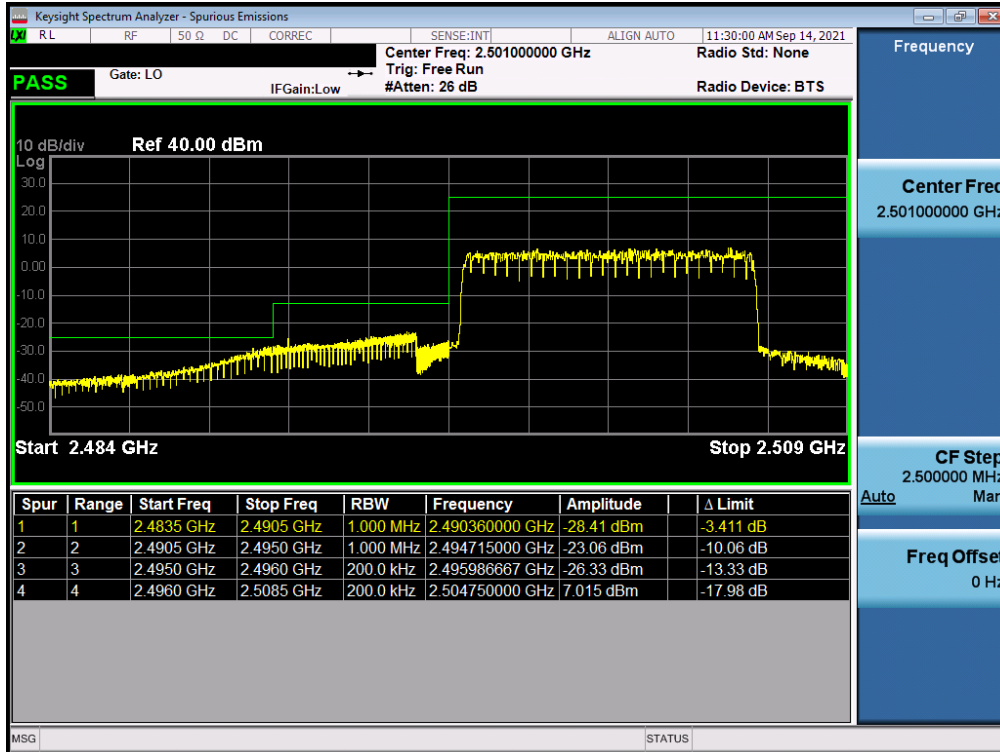


Plot 7-233. Lower ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB)

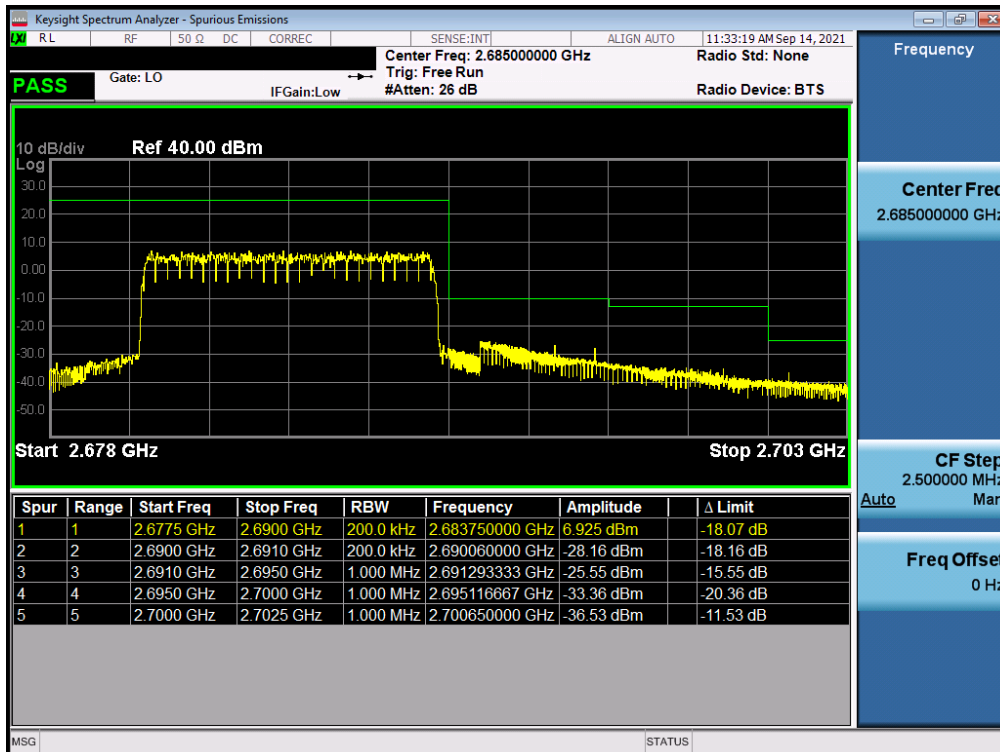


Plot 7-234. Upper ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 144 of 231

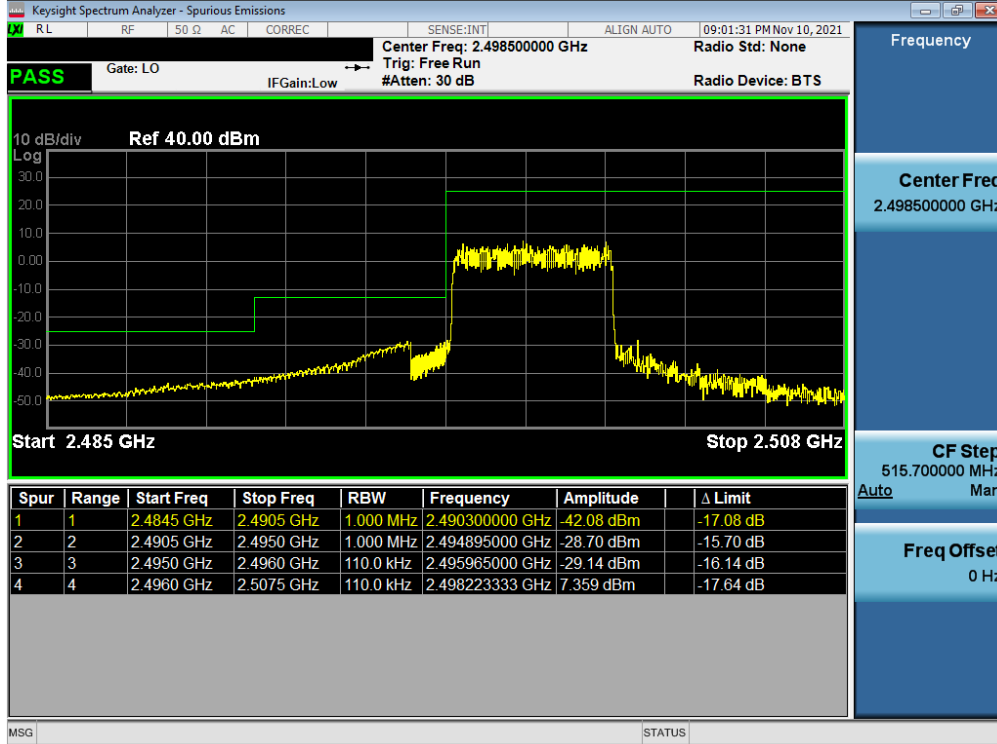


Plot 7-235. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK - Full RB)

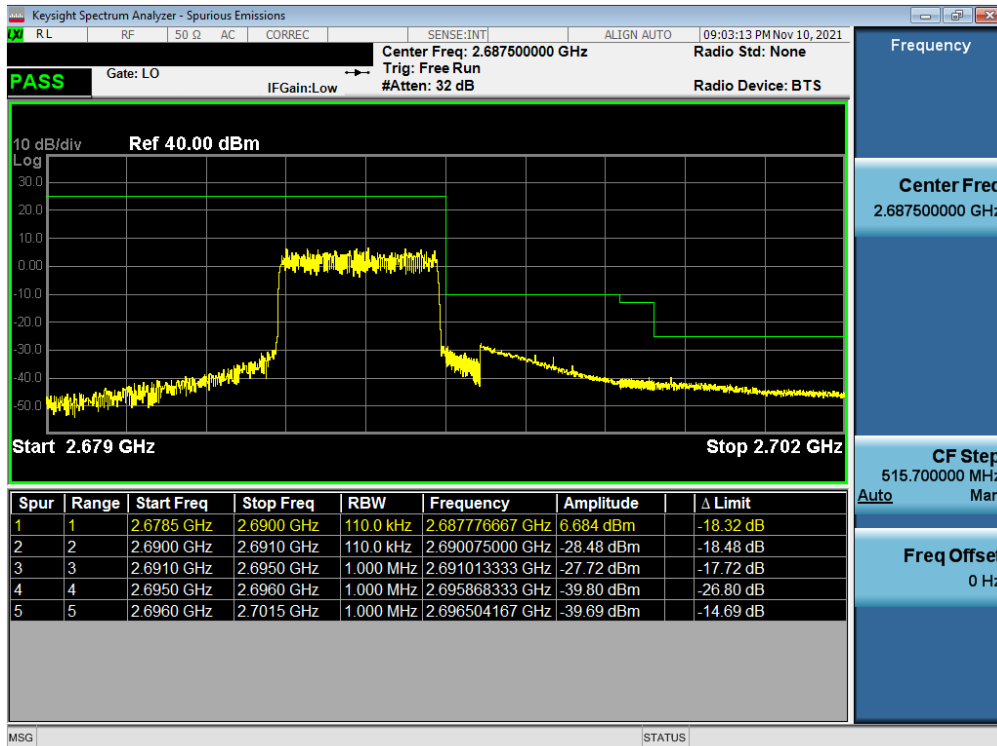


Plot 7-236. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK - Full RB)



FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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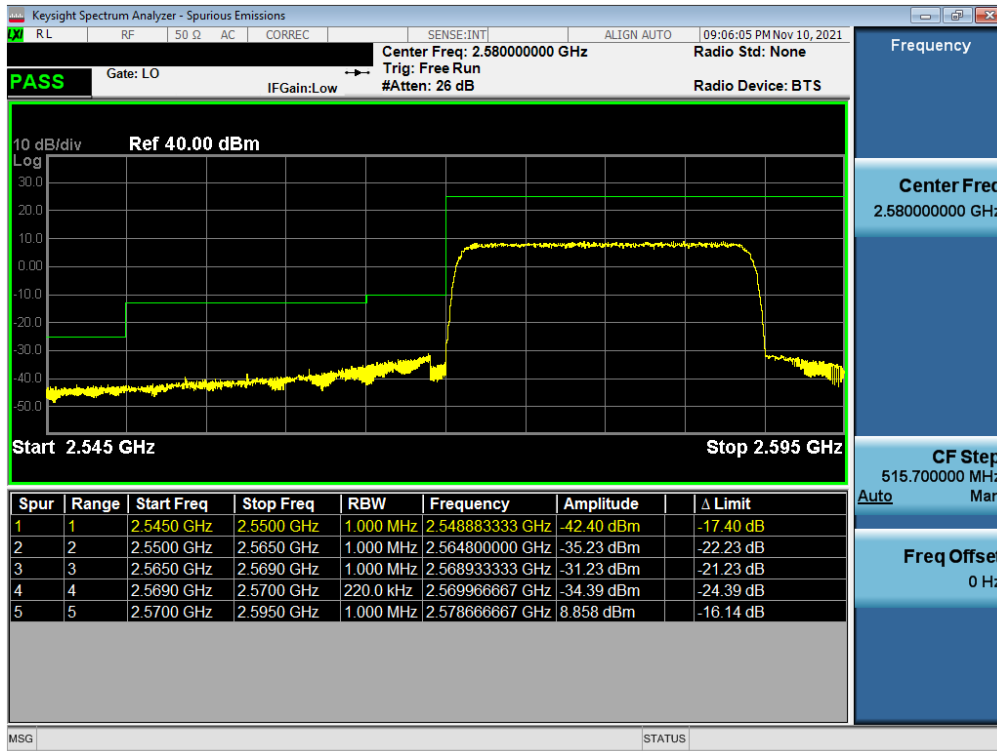
Plot 7-237. Lower ACP Plot (LTE Band 41(PC3) - 5MHz QPSK - Full RB)



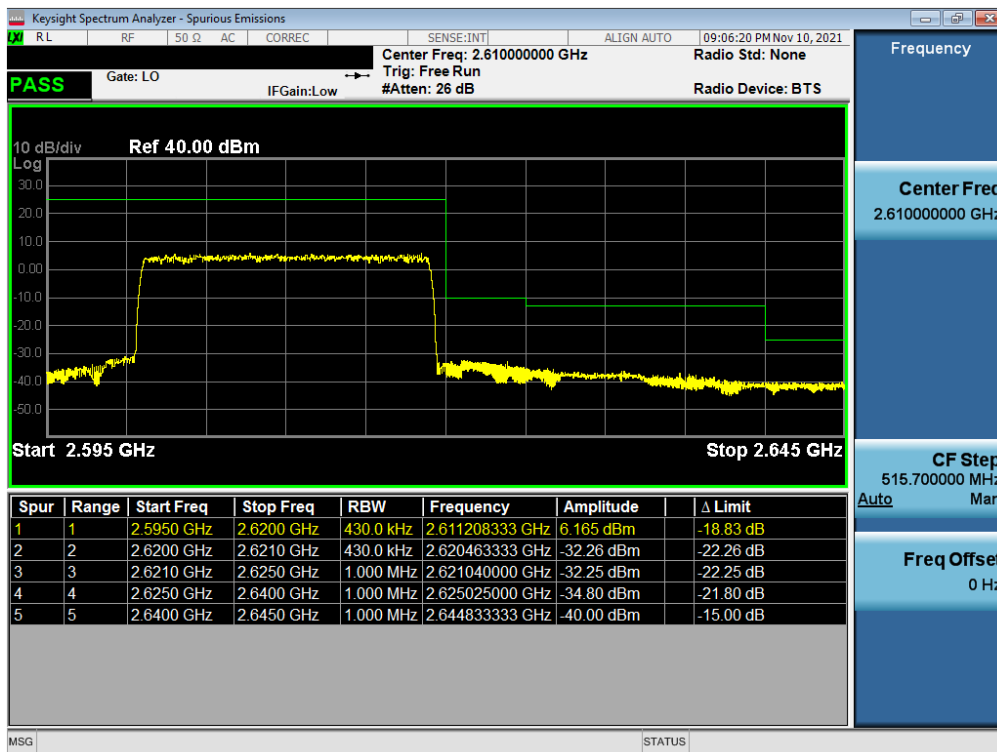
Plot 7-238. Upper ACP Plot (LTE Band 41(PC3) - 5MHz QPSK - Full RB)

FCC ID: A3LSMS908U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 38

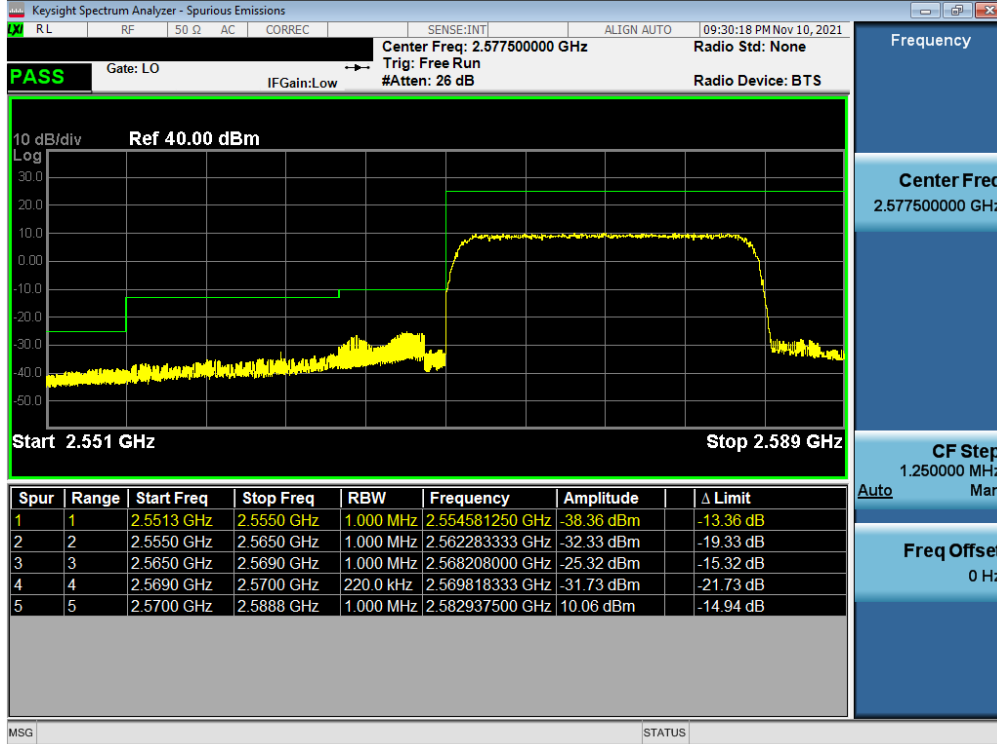


Plot 7-239. Lower Band Edge Plot (LTE Band 38 - 20MHz QPSK – Full RB)

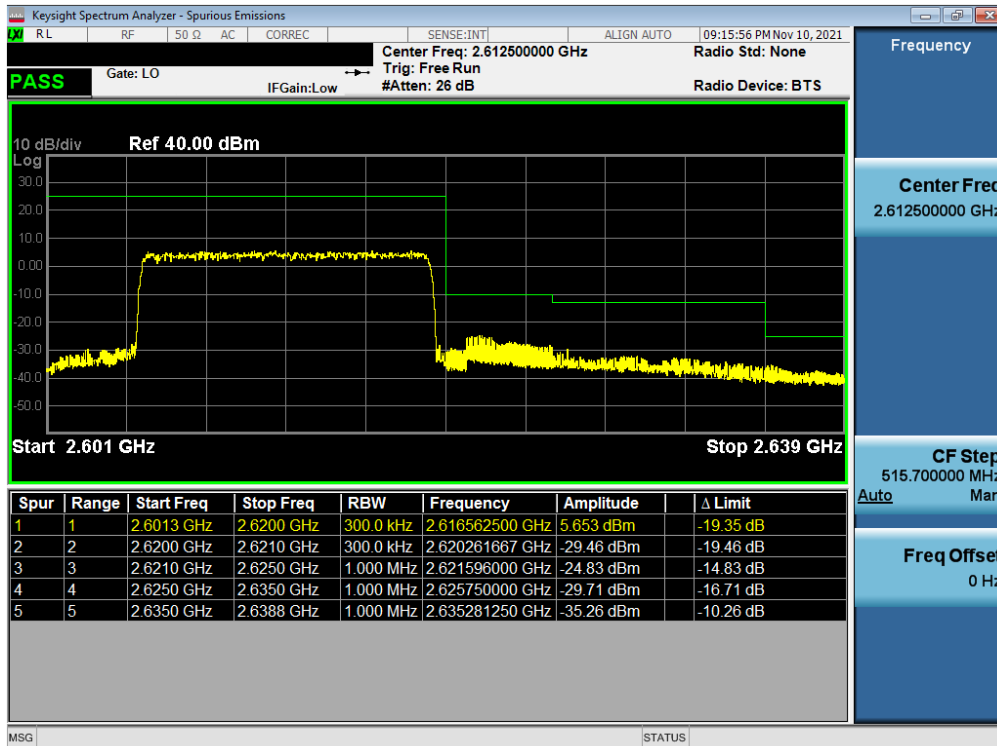


Plot 7-240. Upper Band Edge Plot (LTE Band 38 - 20MHz QPSK – Full RB)



FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 147 of 231

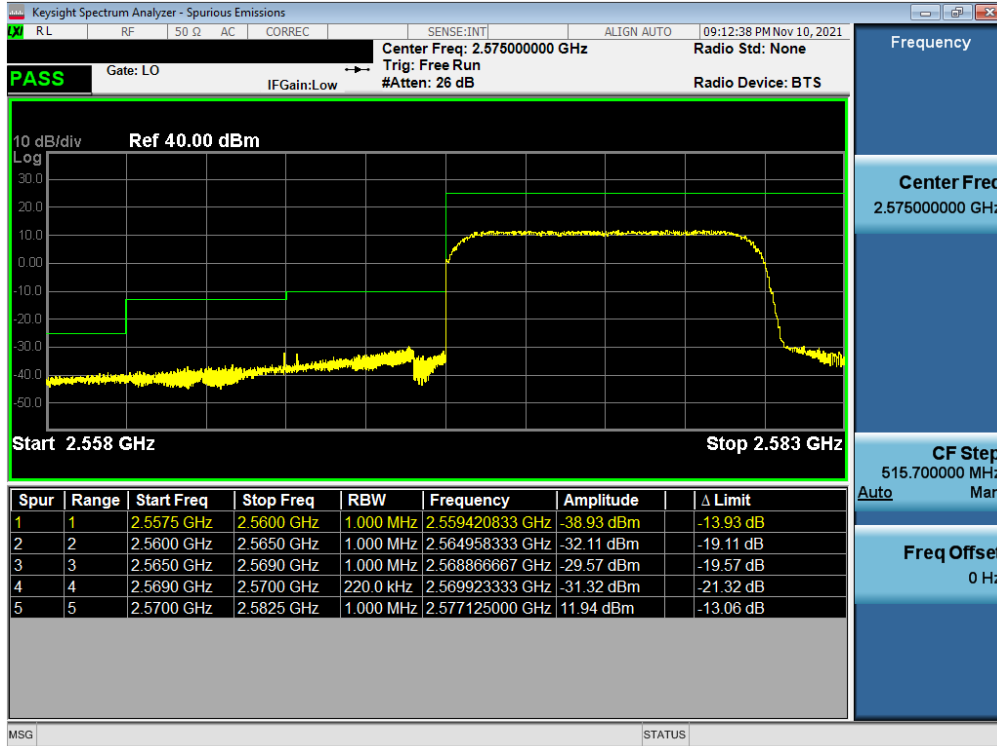


Plot 7-241. Lower Band Edge Plot (LTE Band 38 - 15MHz QPSK – Full RB)

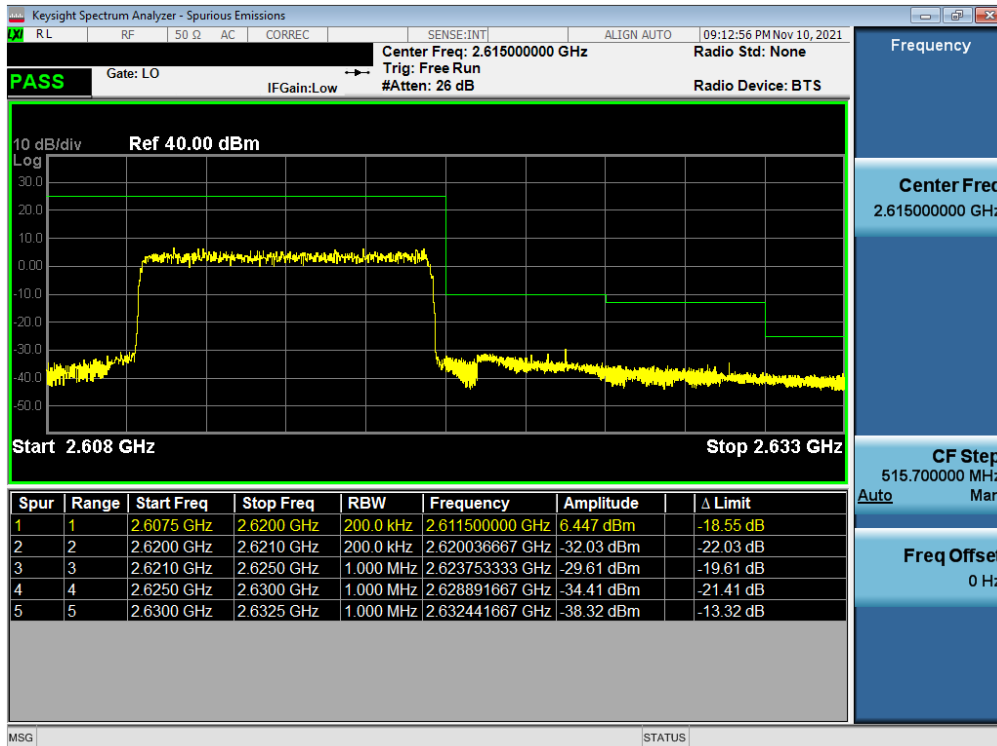


Plot 7-242. Upper Band Edge Plot (LTE Band 38 - 15MHz QPSK – Full RB)




FCC ID: A3LSMS908U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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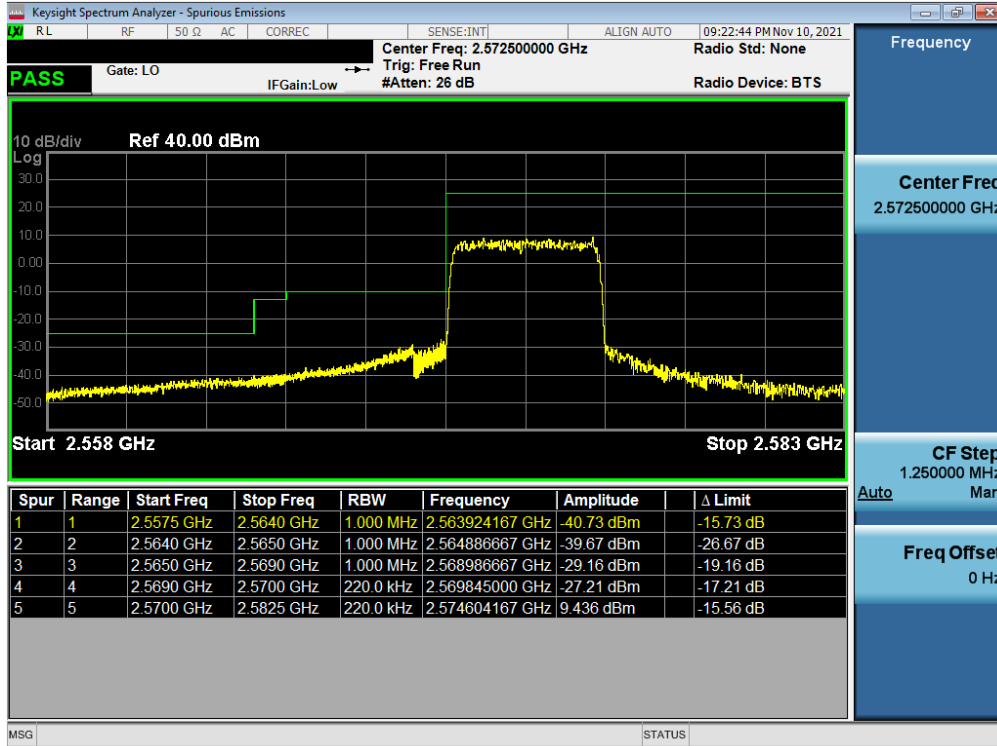


Plot 7-243. Lower Band Edge Plot (LTE Band 38 - 10MHz QPSK – Full RB)

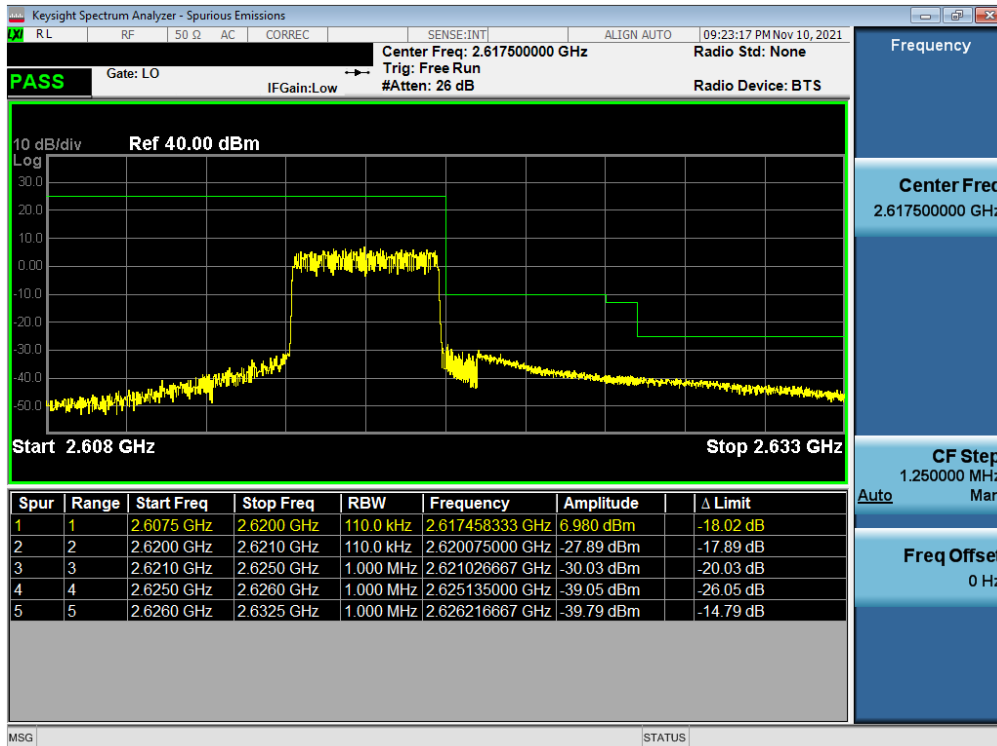


Plot 7-244. Upper Band Edge Plot (LTE Band 38 - 10MHz QPSK – Full RB)

FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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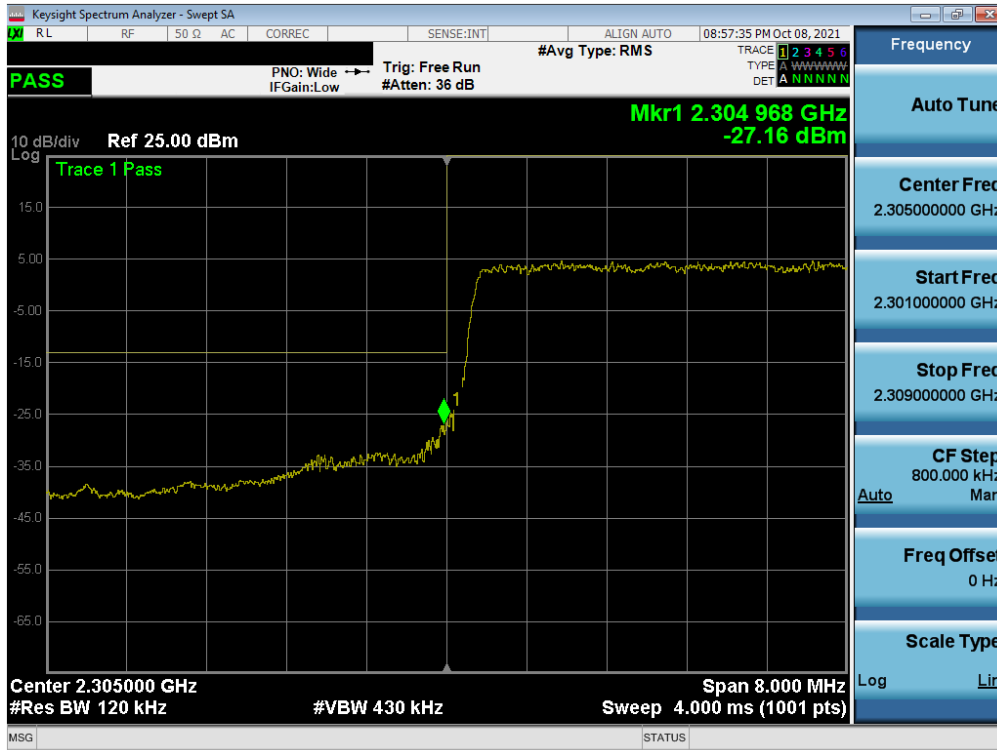
Plot 7-245. Lower Band Edge Plot (LTE Band 38 - 5MHz QPSK - Full RB)



Plot 7-246. Upper Band Edge Plot (LTE Band 38 - 5MHz QPSK - Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30 - Ant A



Plot 7-247. Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant A)

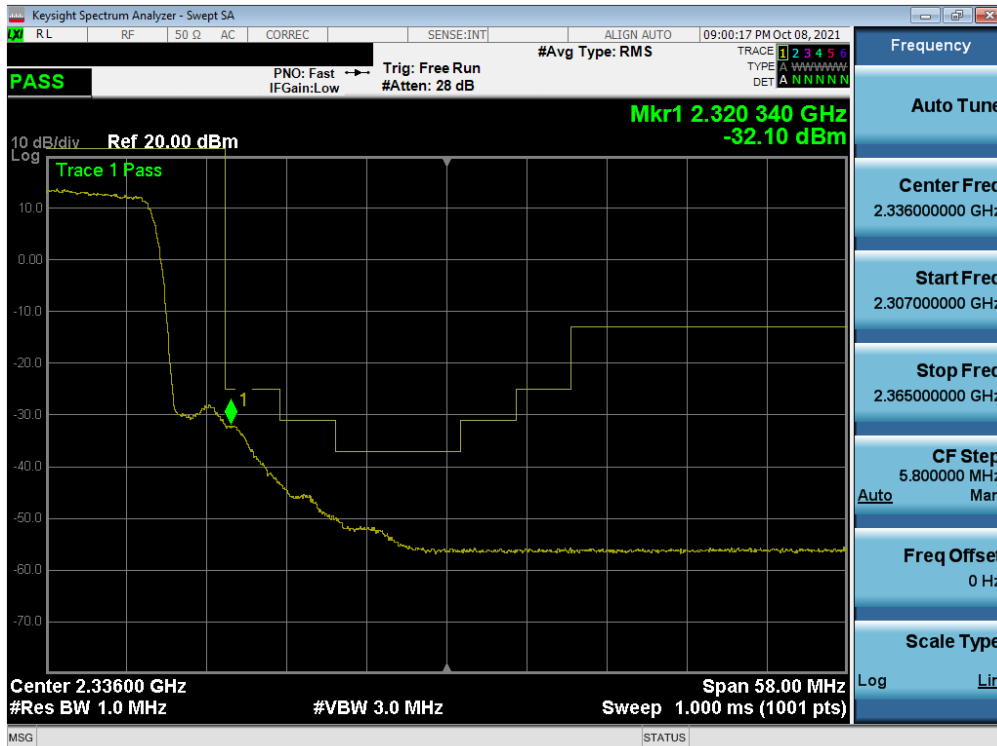


Plot 7-248. Extended Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant A)




FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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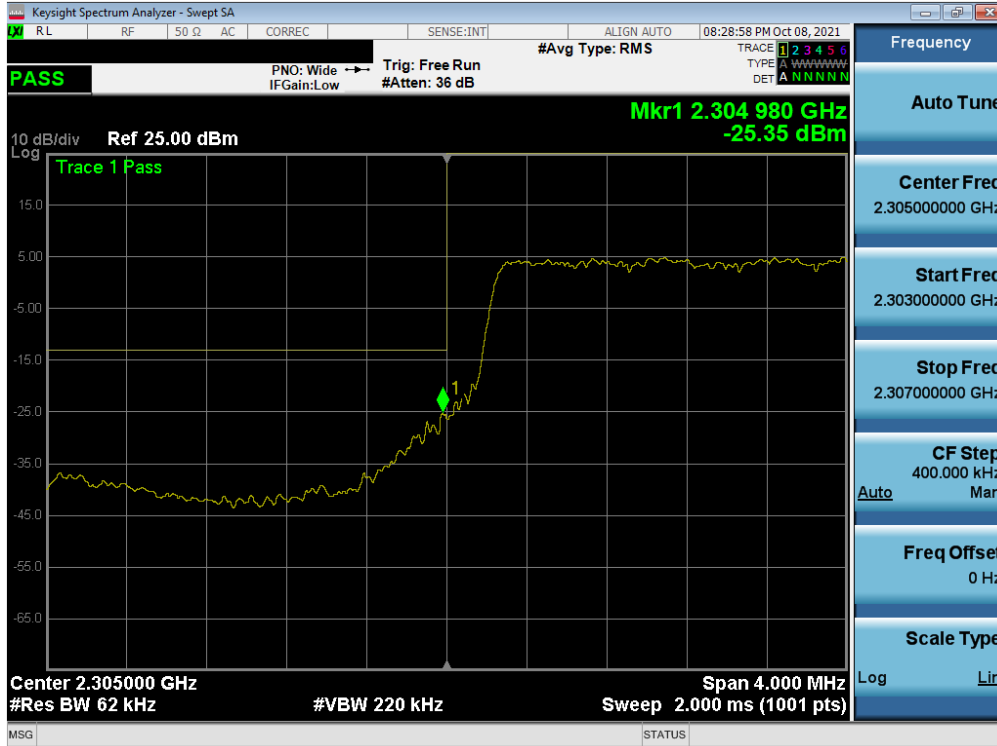


Plot 7-249. Upper Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant A)

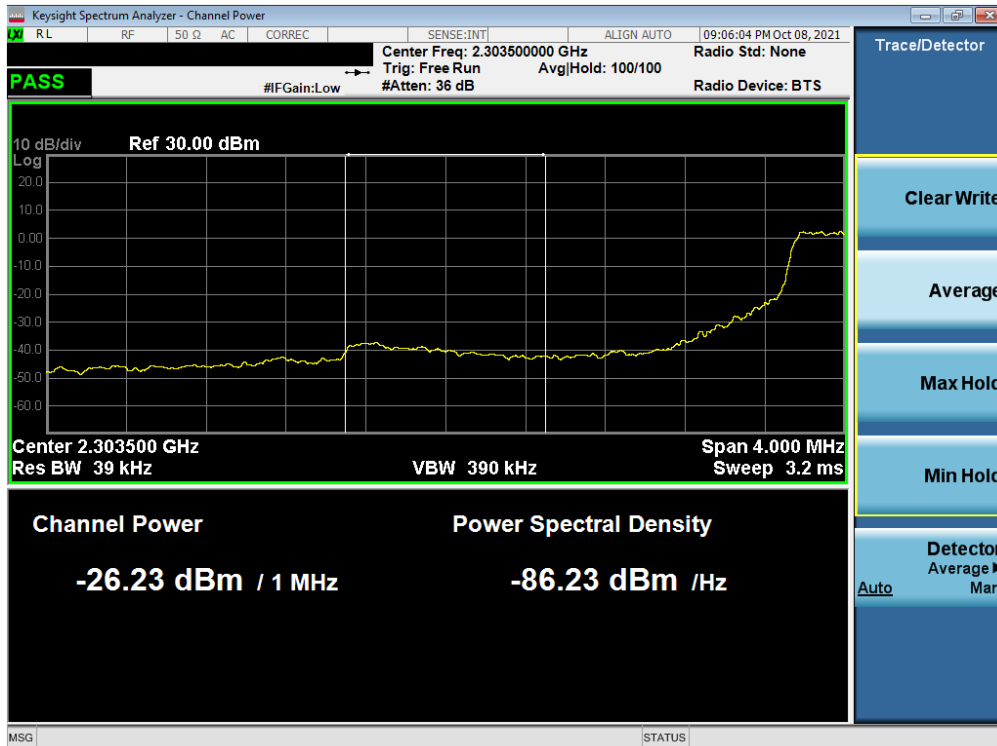


Plot 7-250. Extended Upper Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant A)

FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 152 of 231

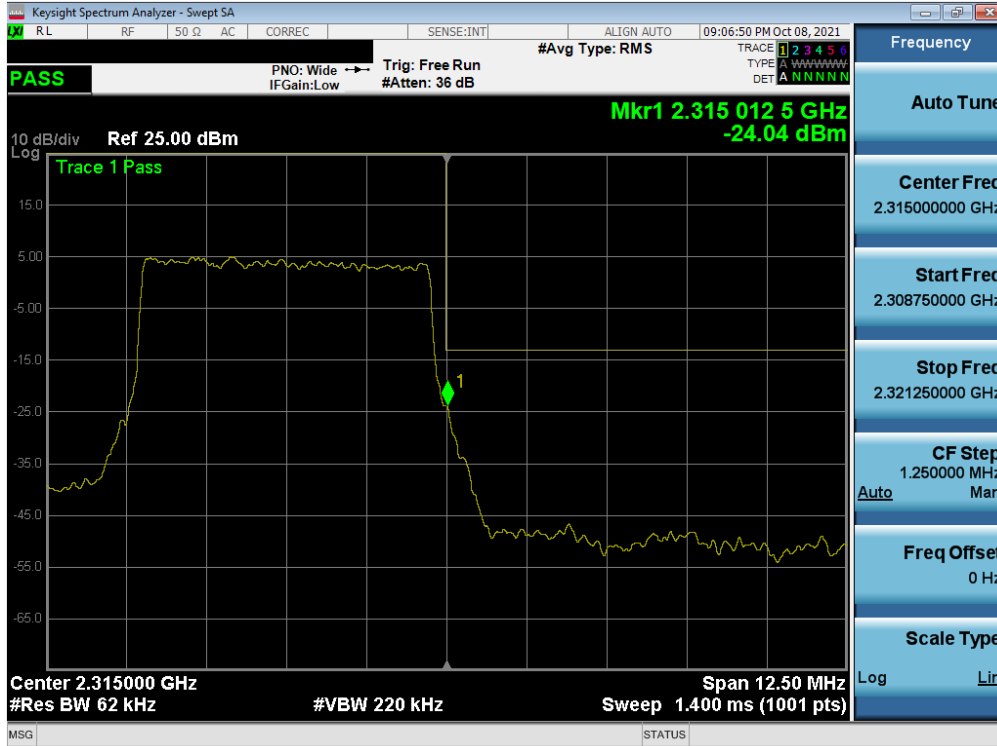


Plot 7-251. Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant A)

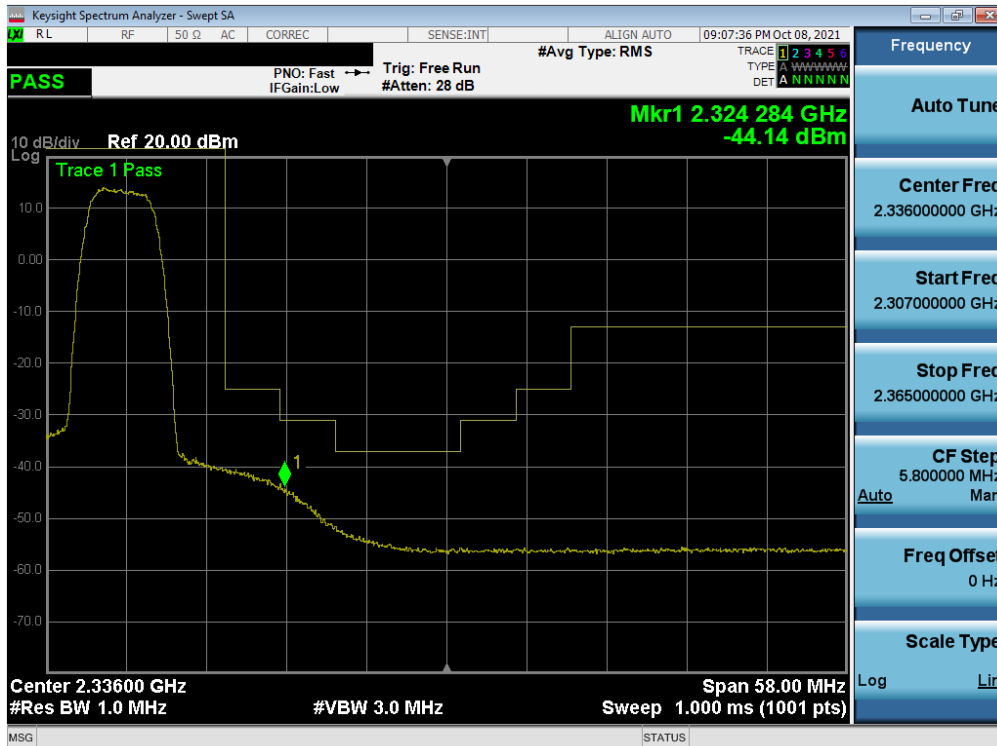


Plot 7-252. Extended Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant A)




FCC ID: A3LSMS908U	Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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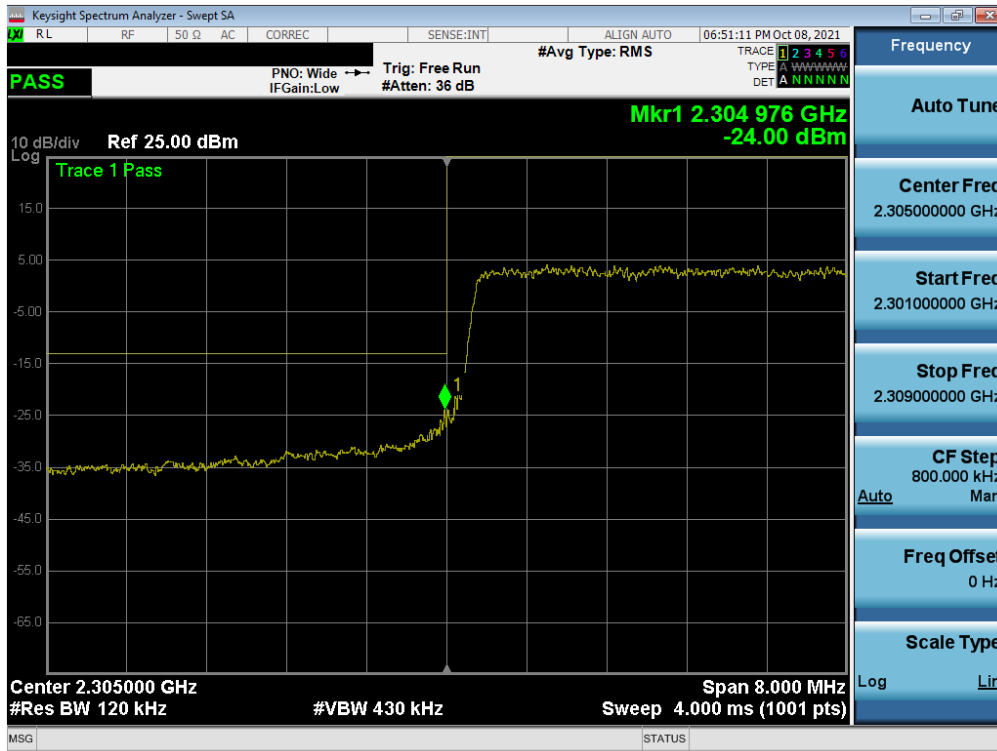
Plot 7-253. Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant A)



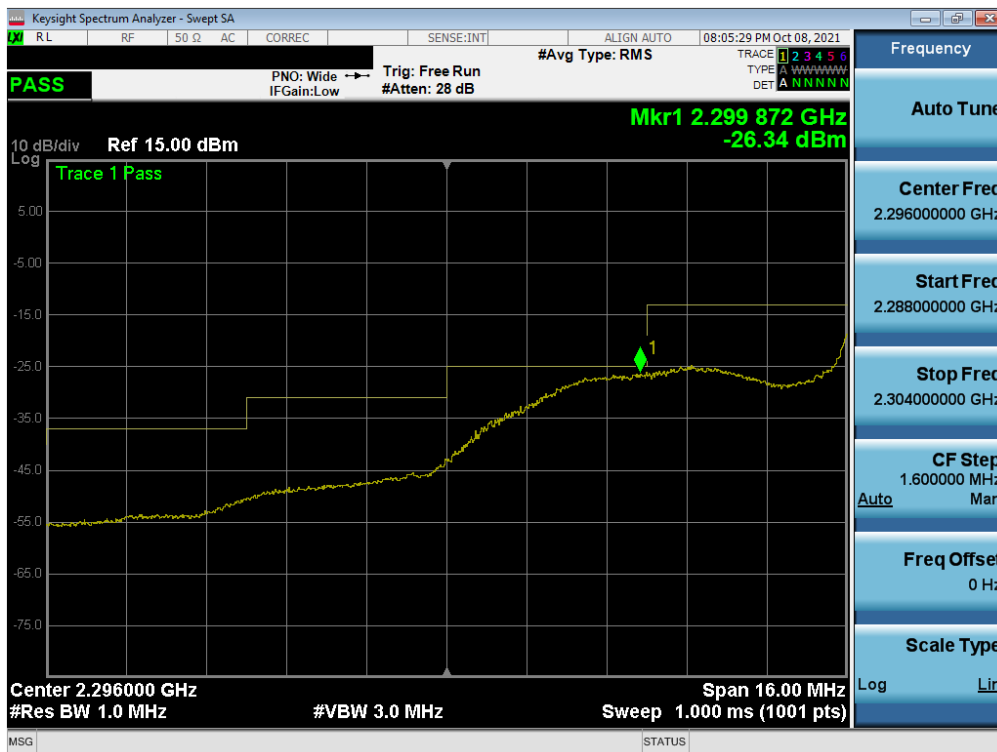
Plot 7-254. Extended Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant A)

FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30 - Ant J

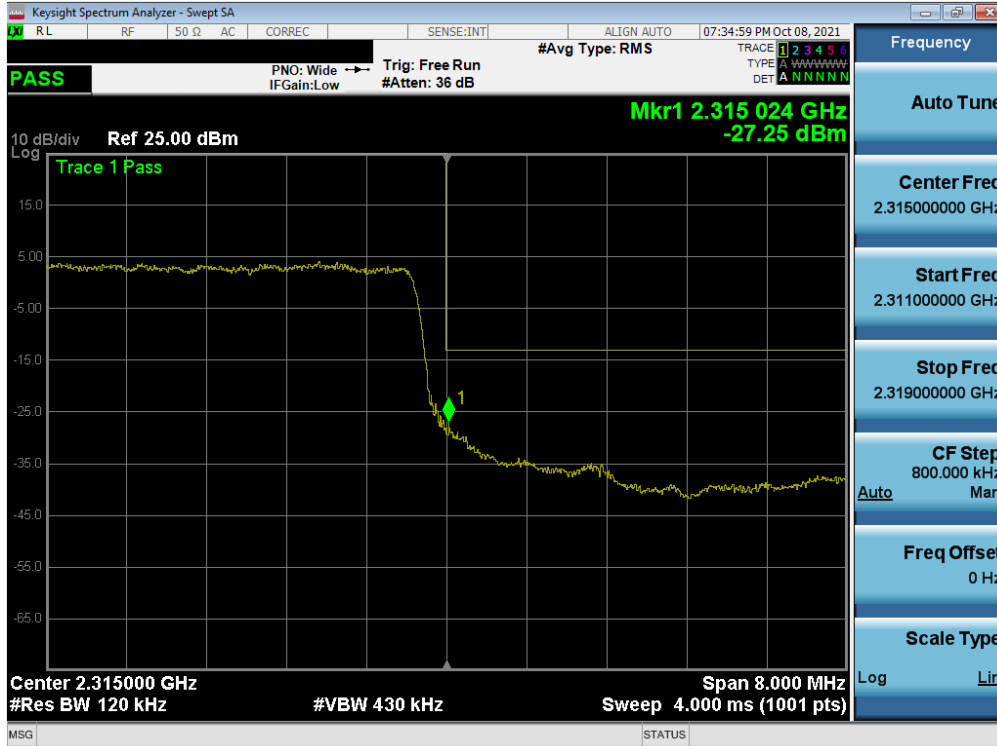


Plot 7-255. Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant J)

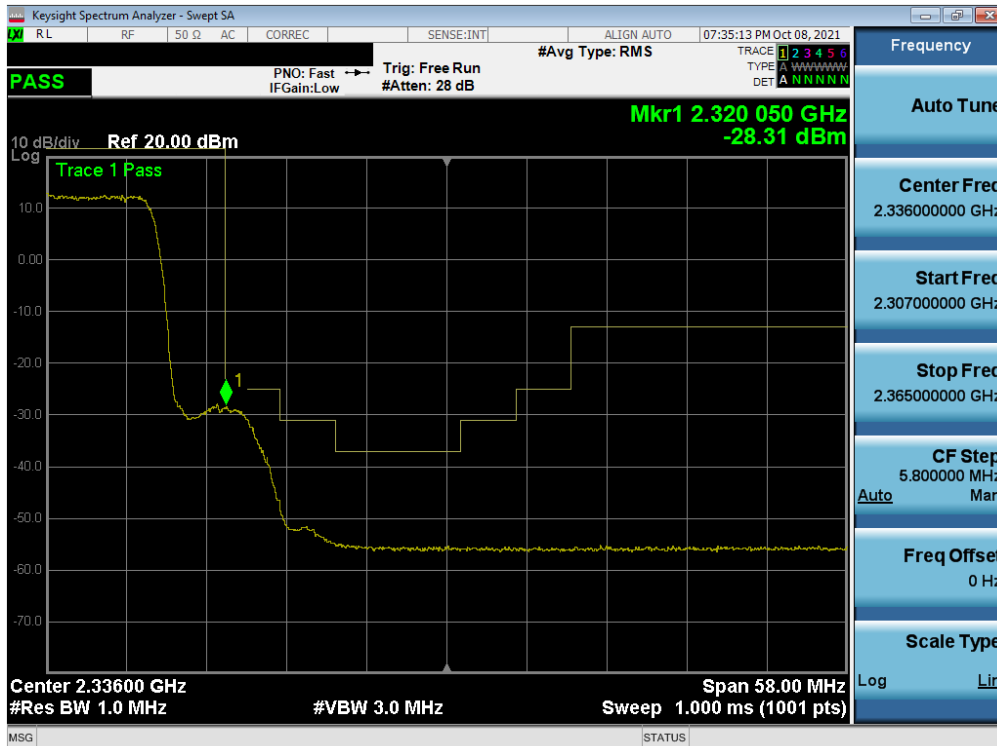


Plot 7-256. Extended Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant J)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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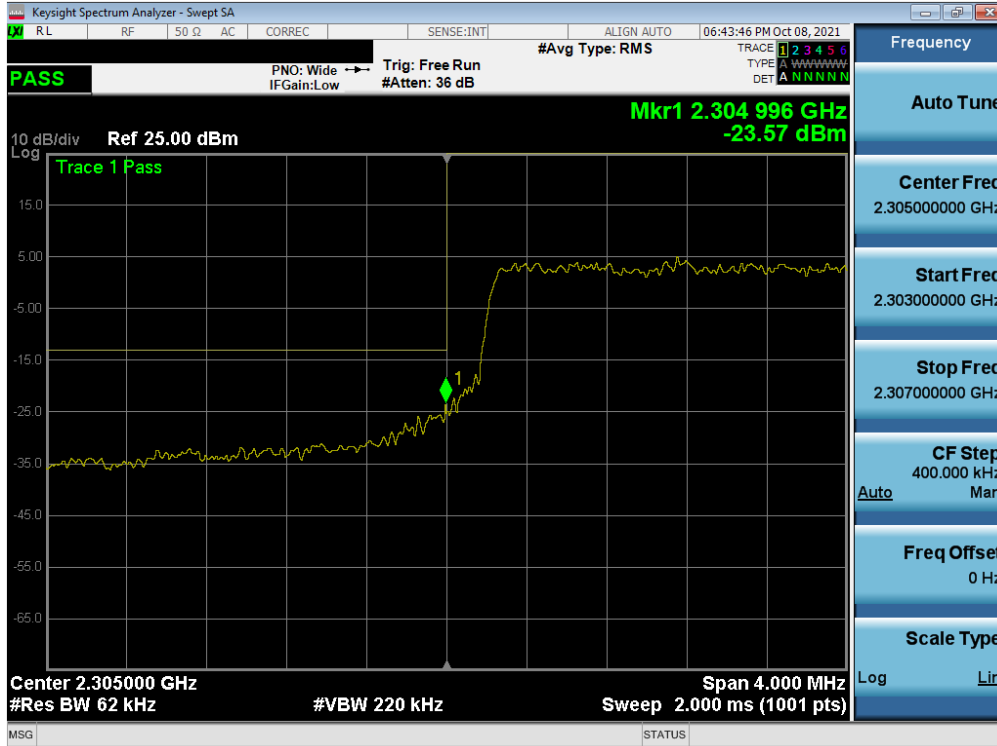


Plot 7-257. Upper Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant J)

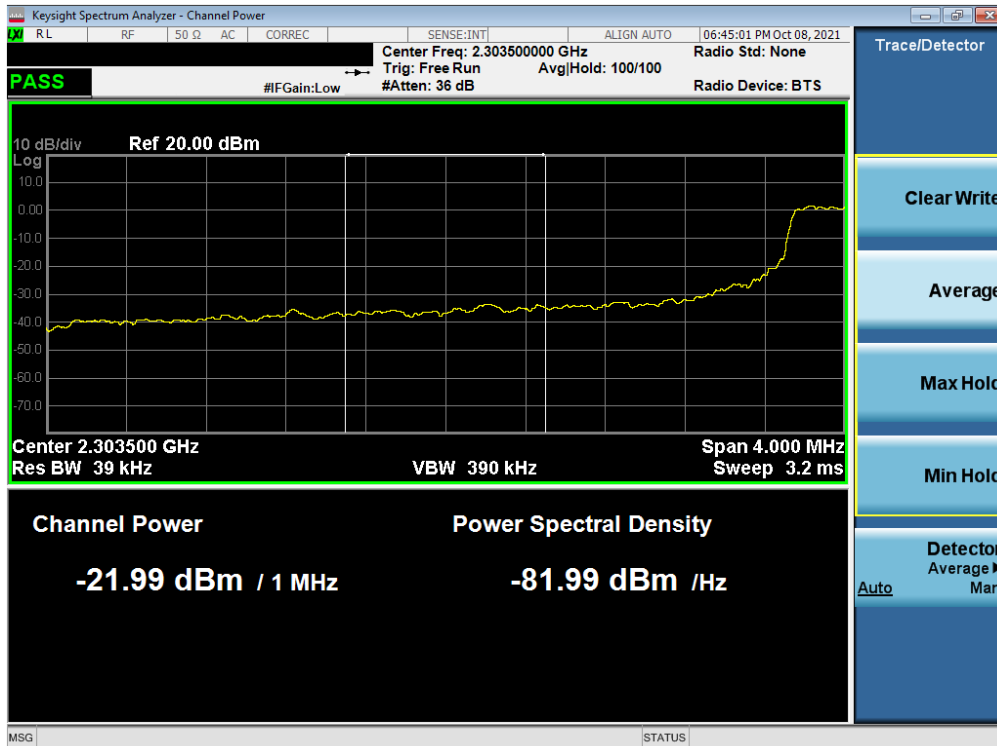


Plot 7-258. Extended Upper Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant J)

FCC ID: A3LSMS908U	Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-259. Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant J)



Plot 7-260. Extended Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant J)




FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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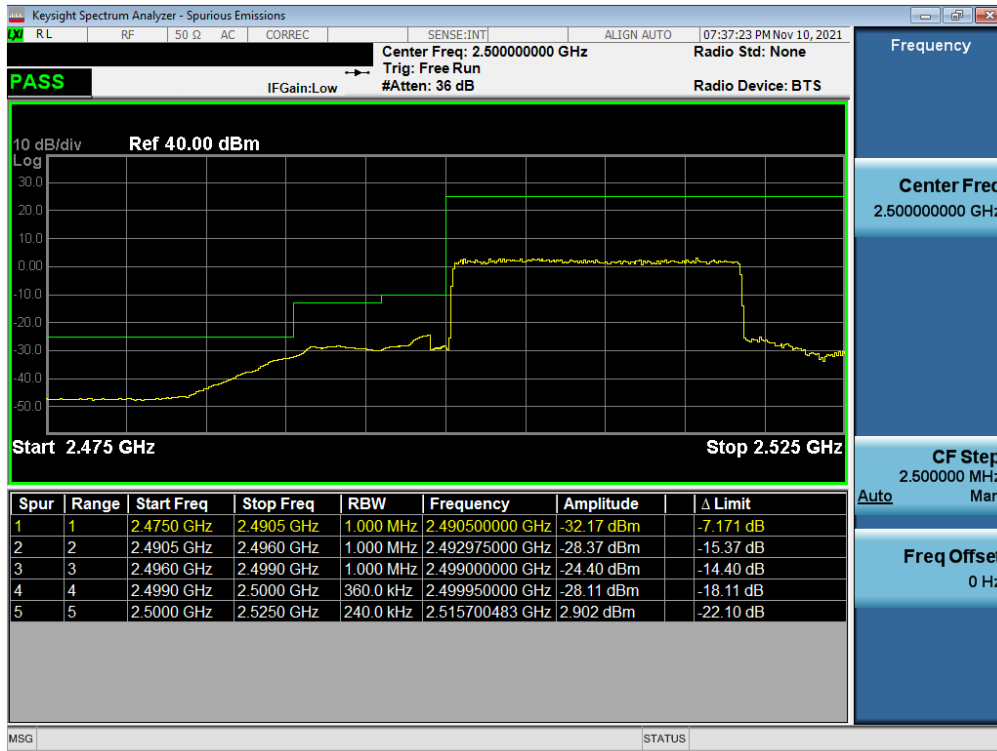
Plot 7-261. Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant J)



Plot 7-262. Extended Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant J)

FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7 - Ant B

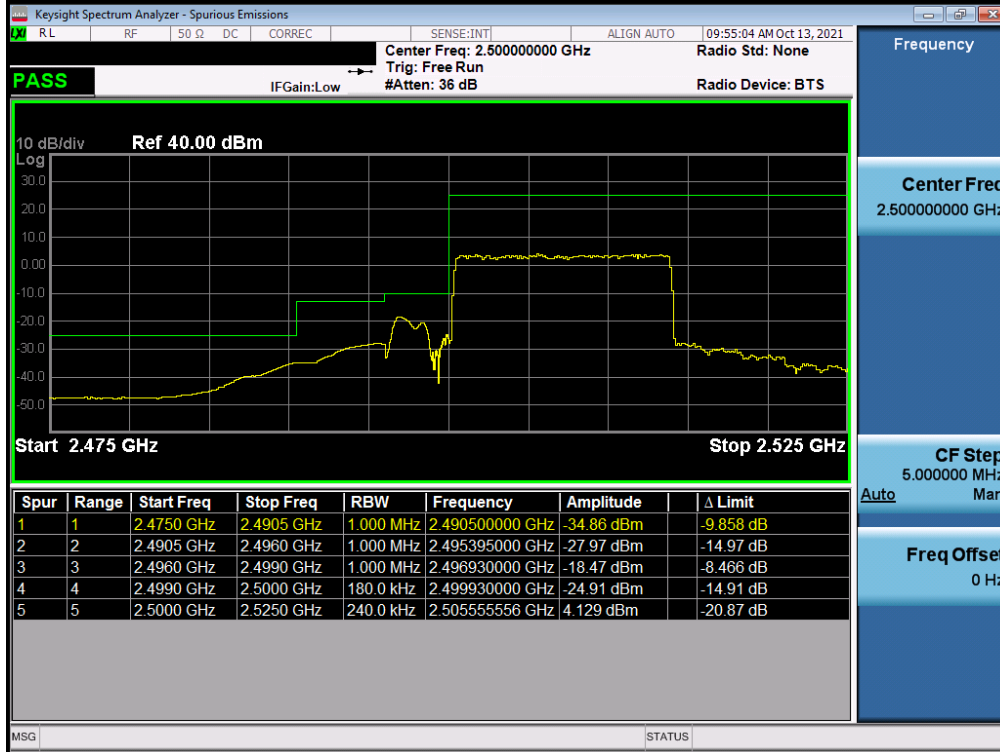


Plot 7-263. Lower Band Edge Plot (NR Band n7 - 40MHz CP-OFDM-QPSK – Full RB - Ant B)

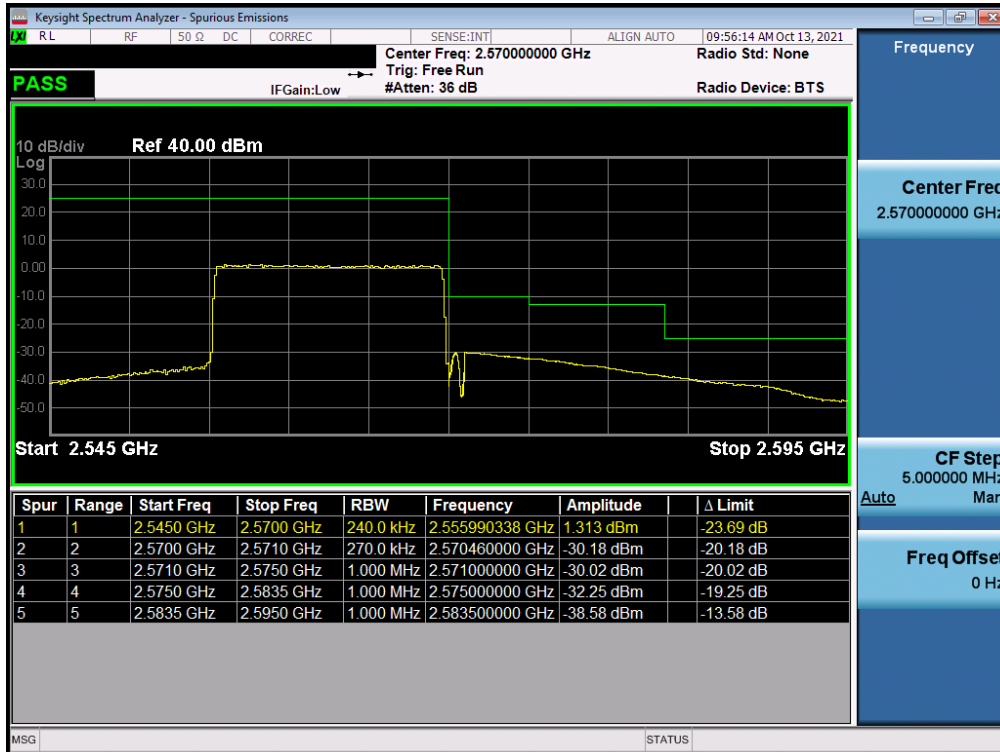


Plot 7-264. Upper Band Edge Plot (NR Band n7 - 40MHz CP-OFDM-QPSK – Full RB - Ant B)




FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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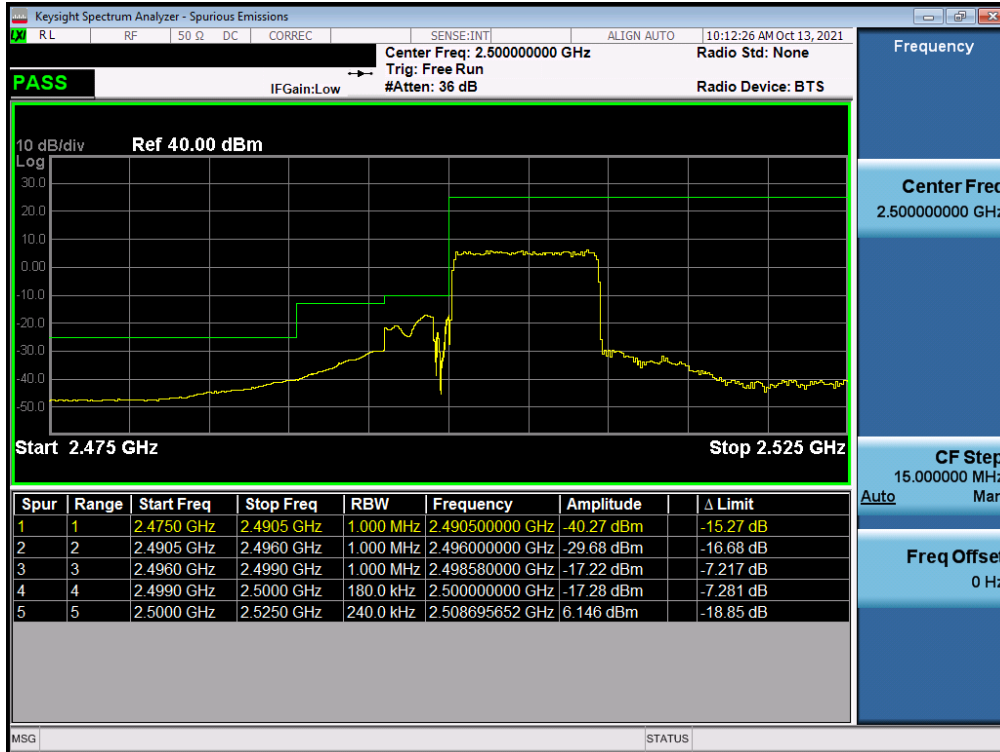


Plot 7-265. Lower Band Edge Plot (NR Band n7 - 30MHz CP-OFDM-QPSK – Full RB - Ant B)

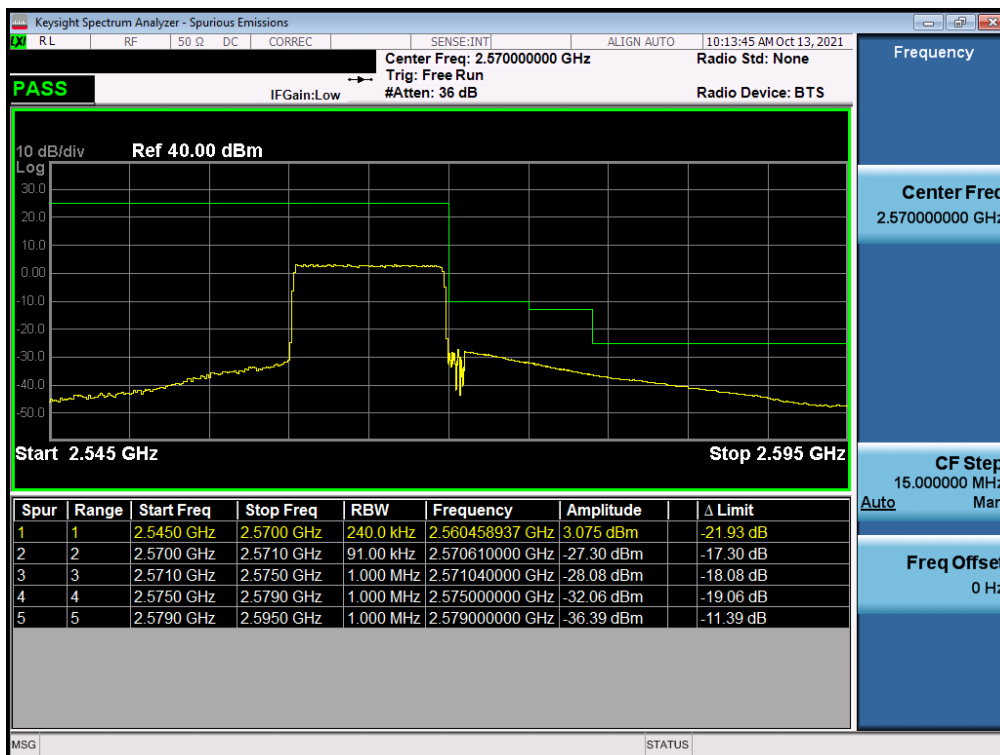


Plot 7-266. Upper Band Edge Plot (NR Band n7 - 30MHz CP-OFDM-QPSK – Full RB - Ant B)

FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-267. Lower Band Edge Plot (NR Band n7 - 25MHz CP-OFDM-QPSK – Full RB - Ant B)



Plot 7-268. Upper Band Edge Plot (NR Band n7 - 25MHz CP-OFDM-QPSK – Full RB - Ant B)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 161 of 231

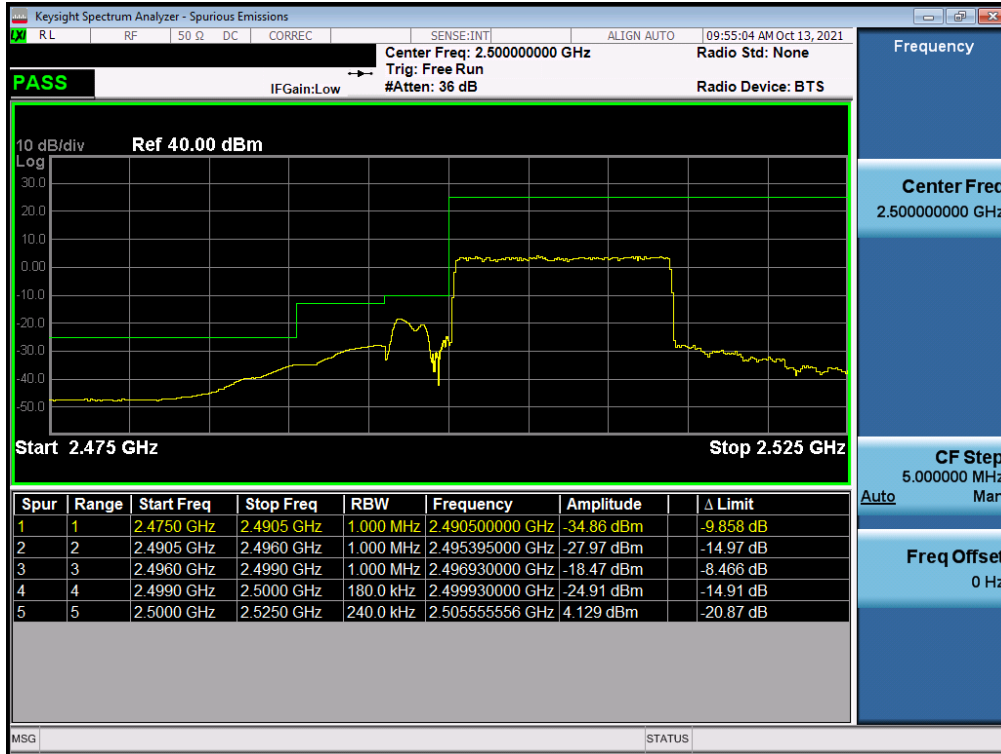


Plot 7-269. Lower Band Edge Plot (NR Band n7 - 20MHz CP-OFDM-QPSK – Full RB - Ant B)

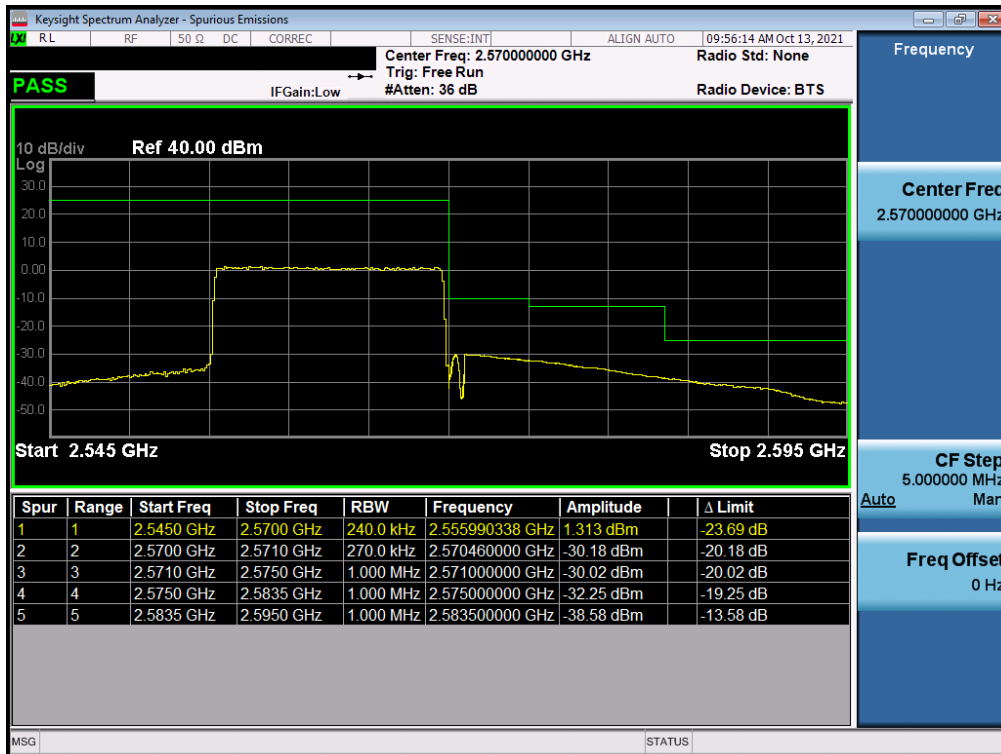


Plot 7-270. Upper Band Edge Plot (NR Band n7 - 20MHz CP-OFDM-QPSK – Full RB - Ant B)




FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 162 of 231

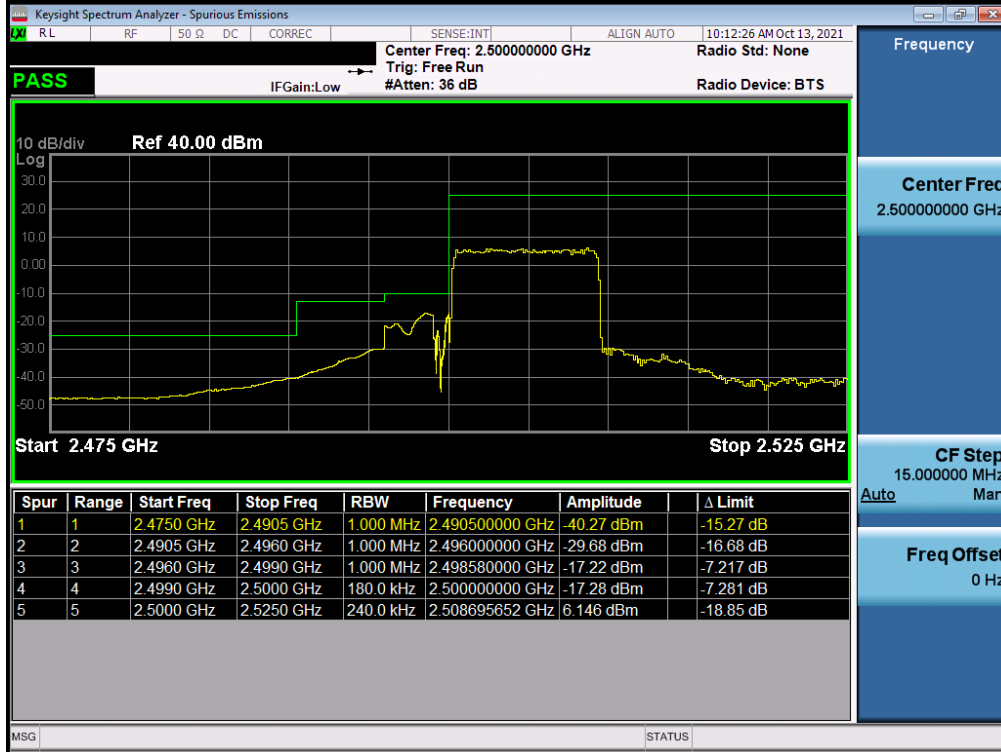


Plot 7-271. Lower Band Edge Plot (NR Band n7 - 15MHz CP-OFDM-QPSK – Full RB - Ant B)

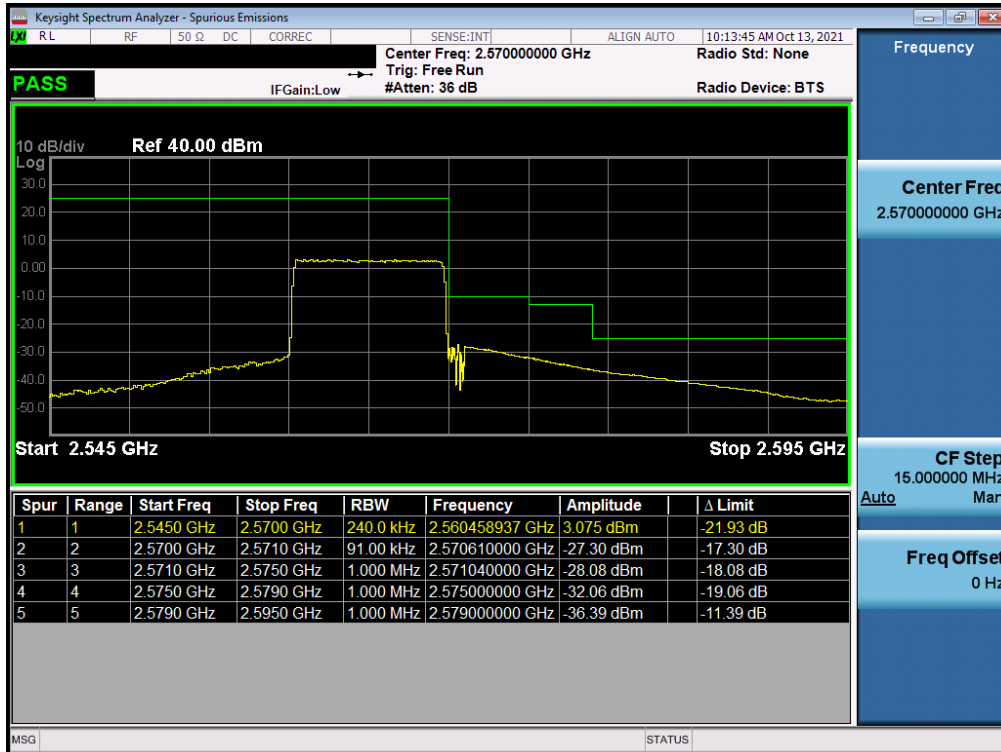


Plot 7-272. Upper Band Edge Plot (NR Band n7 - 15MHz CP-OFDM-QPSK – Full RB - Ant B)




FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 163 of 231

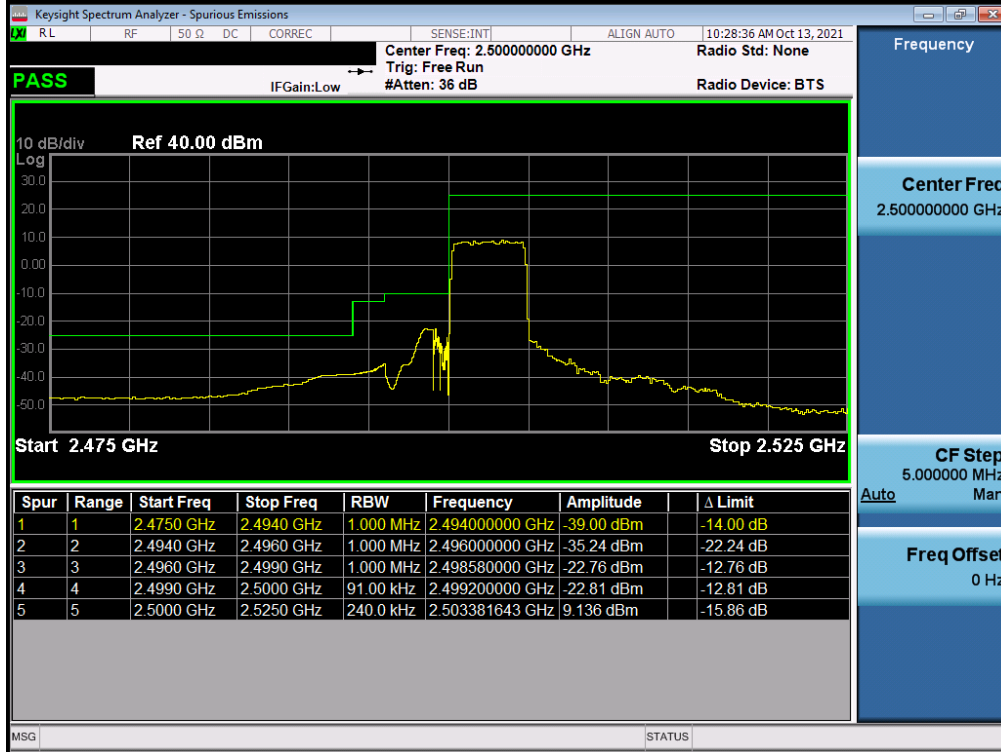


Plot 7-273. Lower Band Edge Plot (NR Band n7 - 10MHz CP-OFDM-QPSK – Full RB - Ant B)

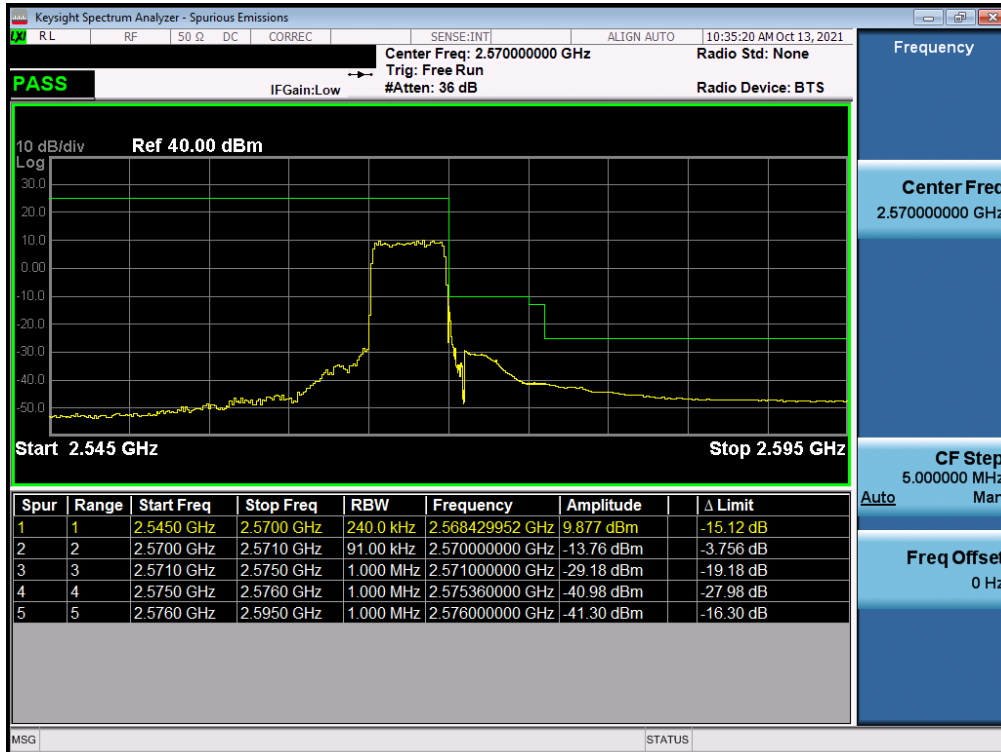


Plot 7-274. Upper Band Edge Plot (NR Band n7 - 10MHz CP-OFDM-QPSK – Full RB - Ant B)

FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 164 of 231



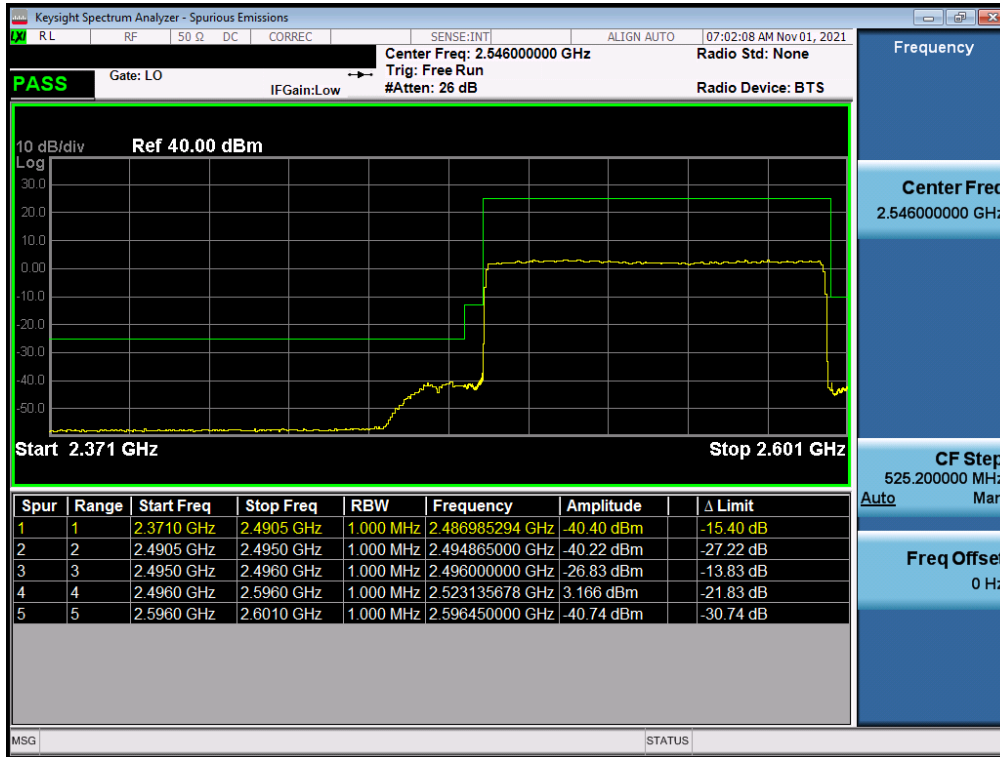
Plot 7-275. Lower Band Edge Plot (NR Band n7 - 5MHz CP-OFDM-QPSK - Full RB - Ant B)



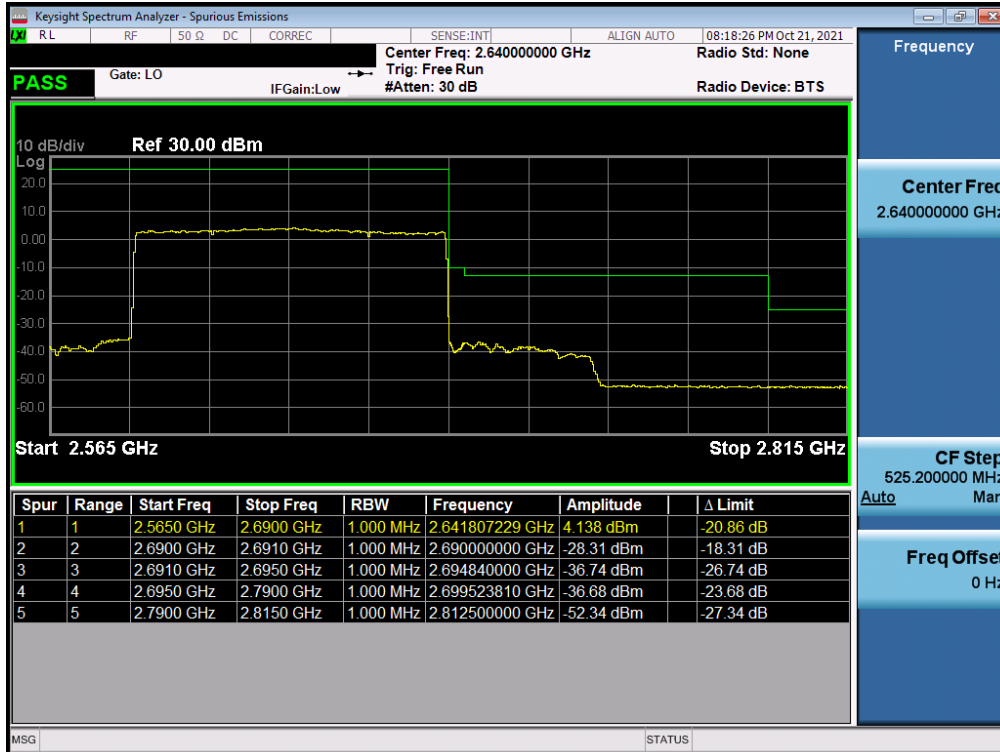
Plot 7-276. Upper Band Edge Plot (NR Band n7 - 5MHz CP-OFDM-QPSK - Full RB - Ant B)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 165 of 231

NR Band n41 - Ant J

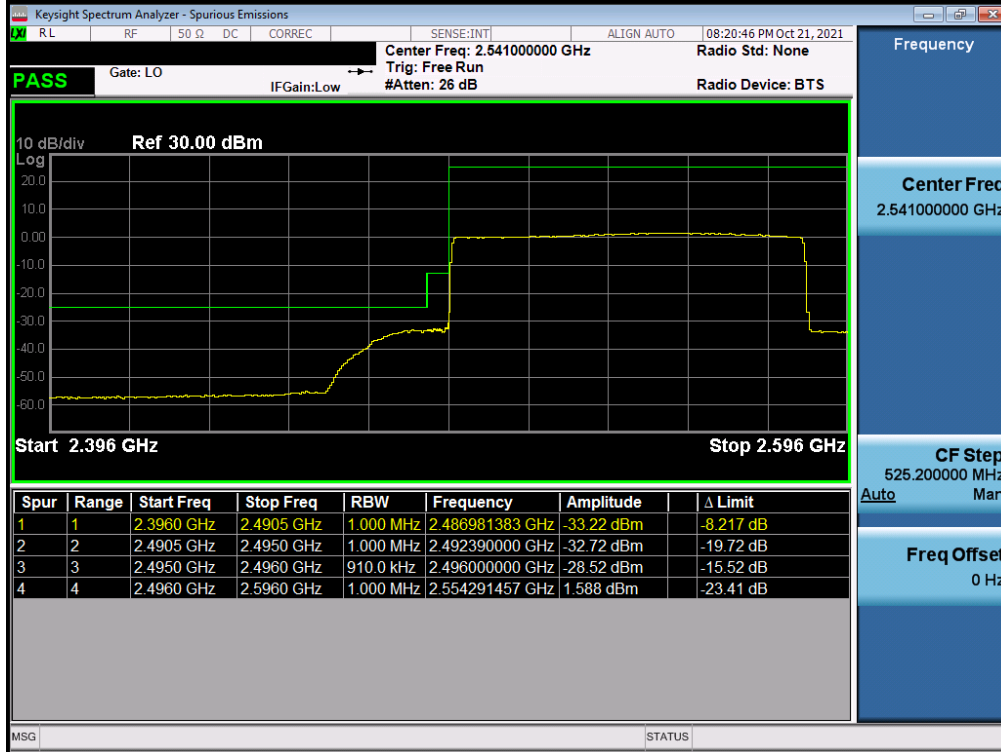


Plot 7-277. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant J)

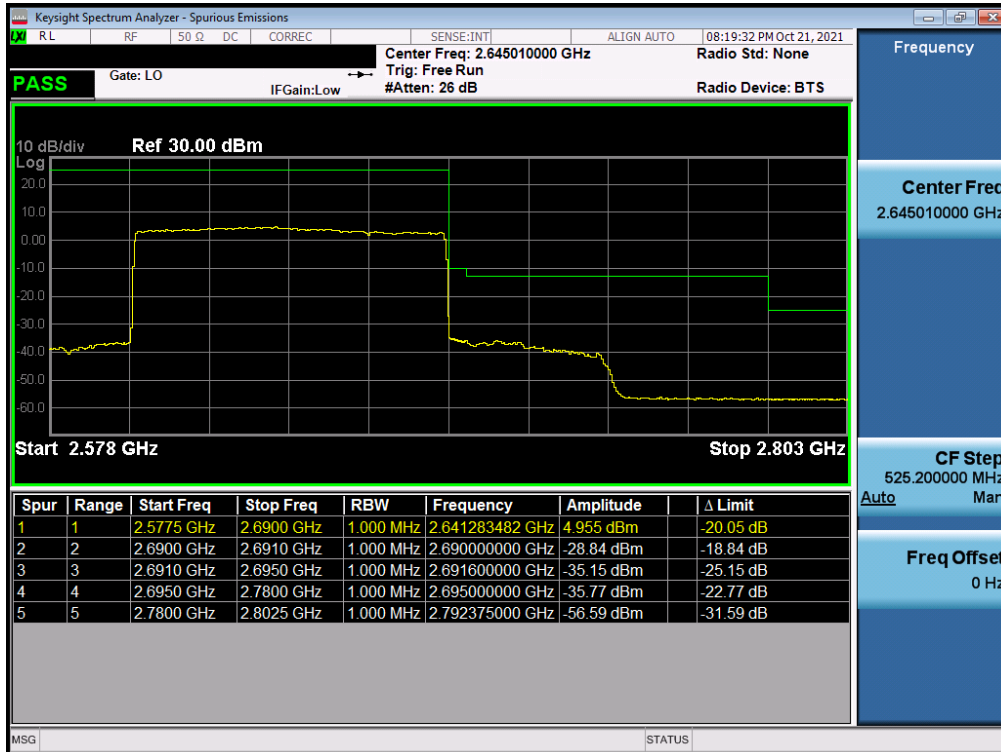


Plot 7-278. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant J)




FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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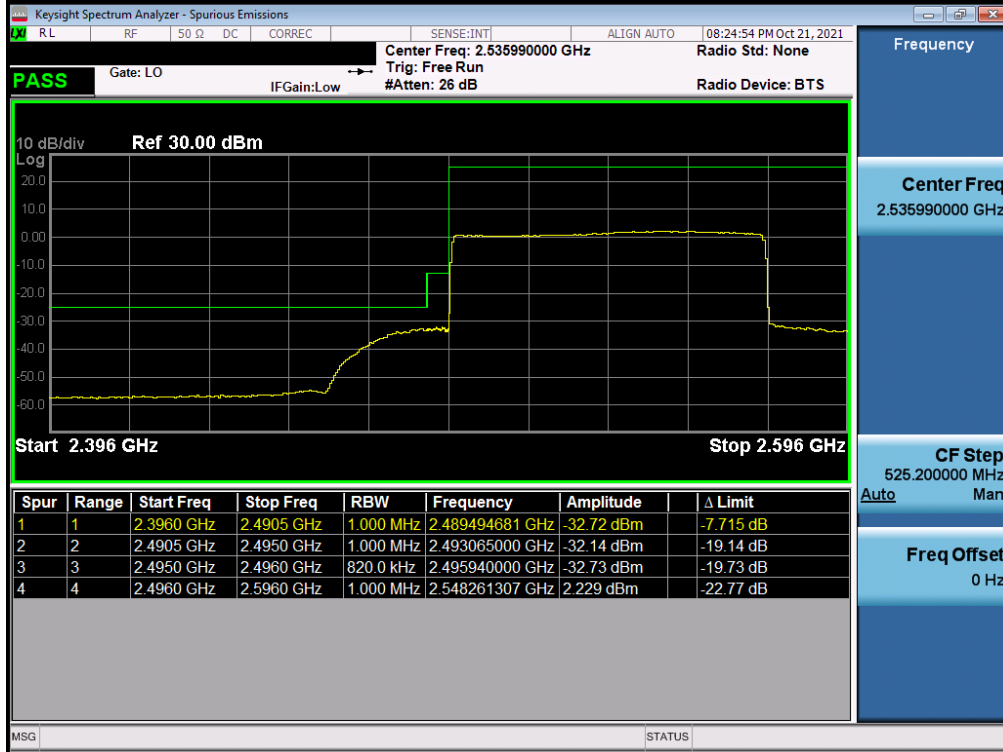


Plot 7-279. Lower ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK – Full RB - Ant J)

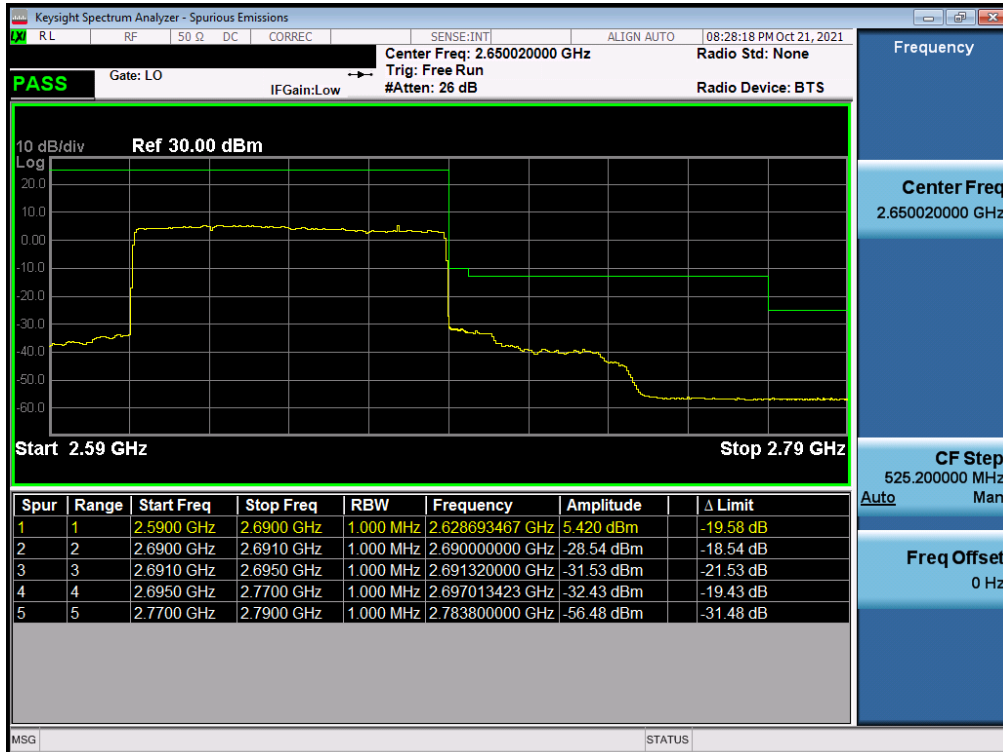


Plot 7-280. Upper ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK – Full RB - Ant J)




FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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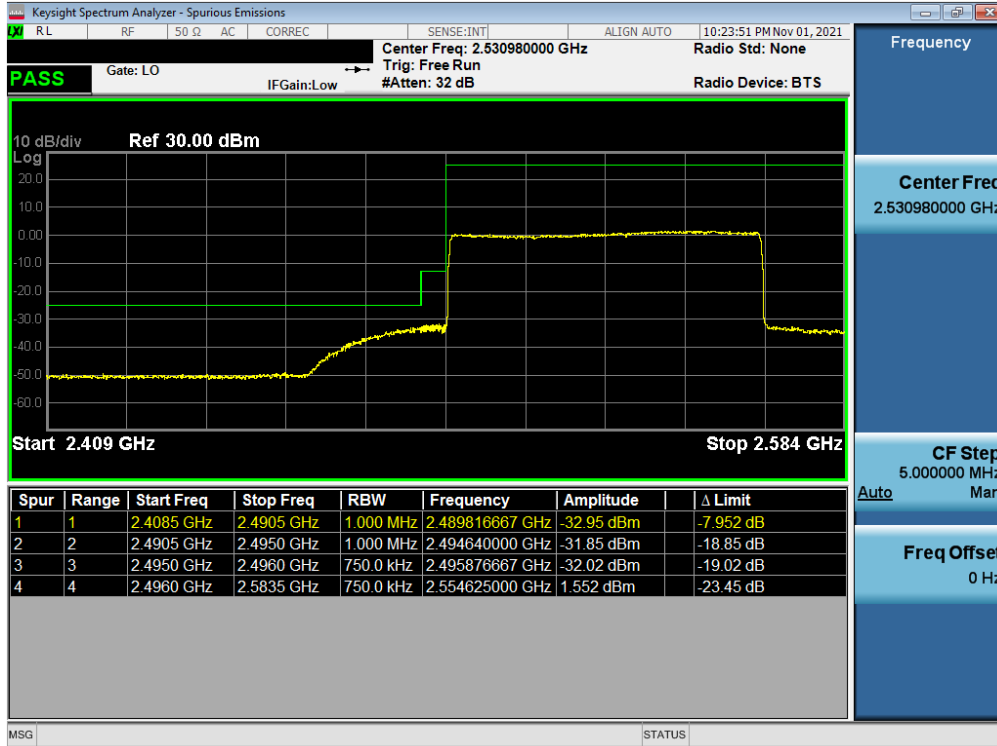


Plot 7-281. Lower ACP Plot (NR Band n41 - 80MHz CP-OFDM-QPSK – Full RB - Ant J)

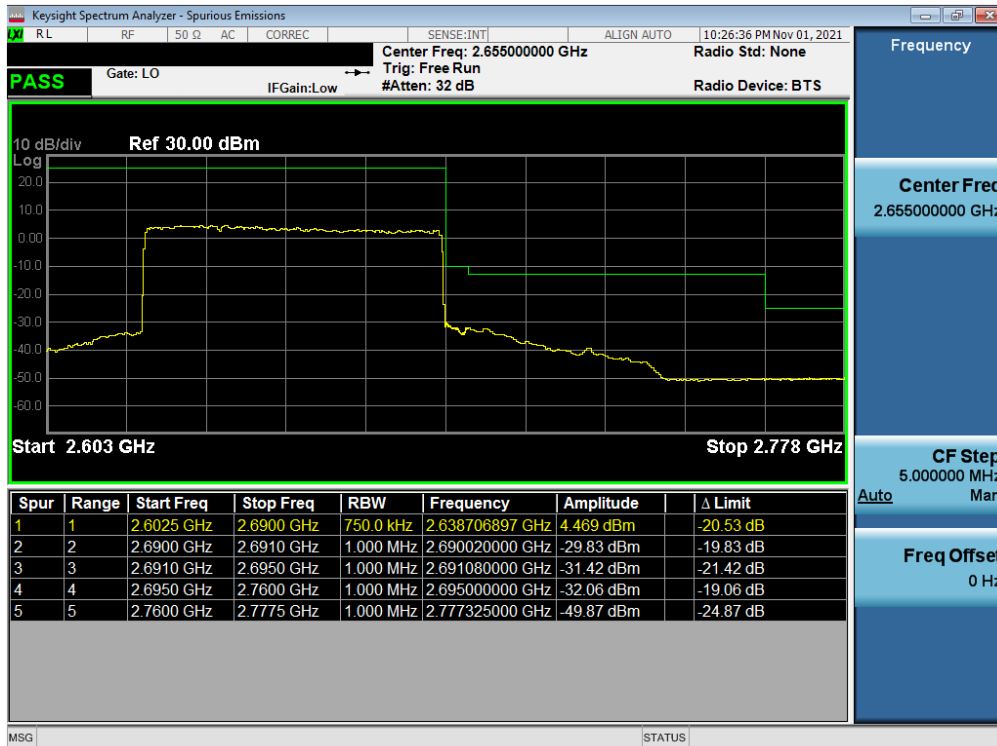


Plot 7-282. Upper ACP Plot (NR Band n41 - 80MHz CP-OFDM-QPSK – Full RB - Ant J)




FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 168 of 231

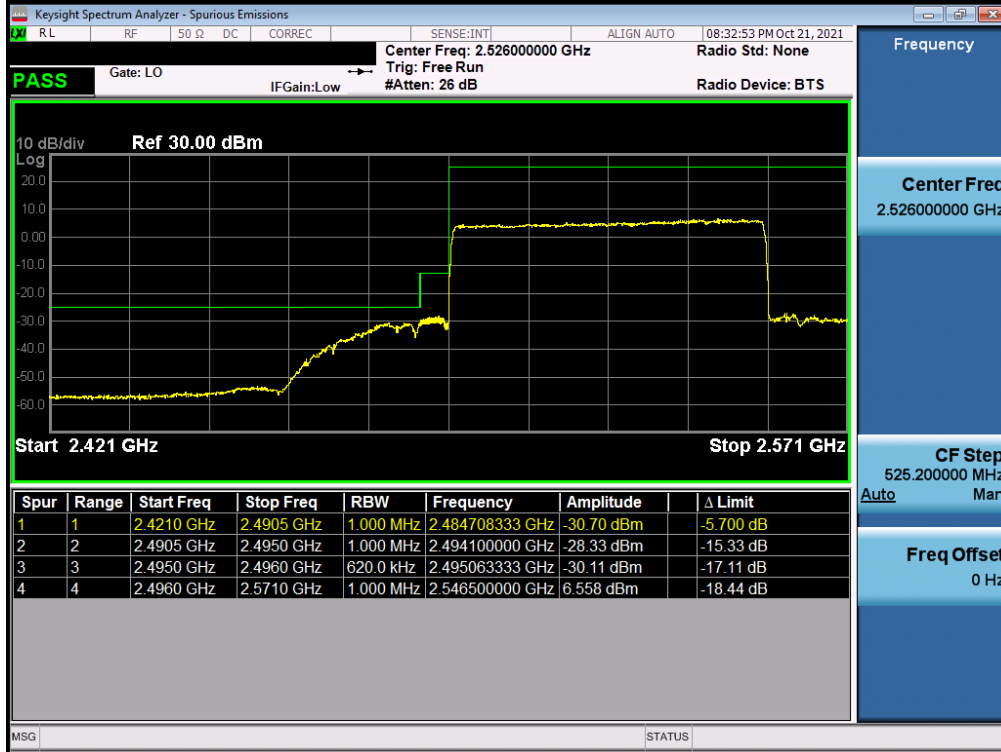


Plot 7-283. Lower ACP Plot (NR Band n41 - 70MHz CP-OFDM-QPSK – Full RB - Ant J)

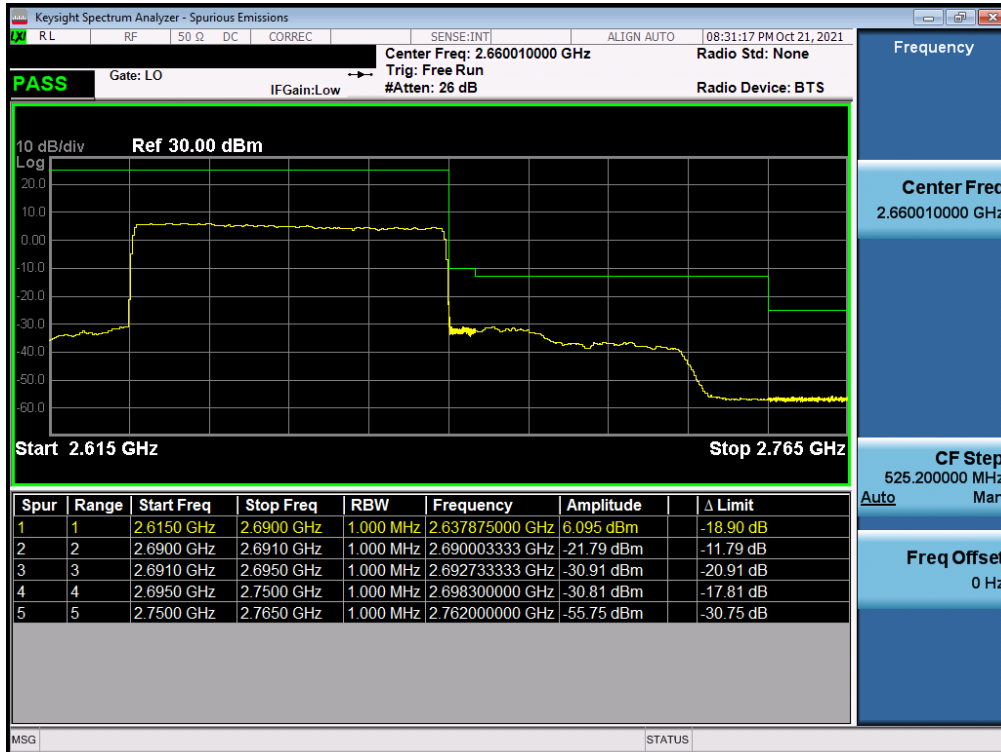


Plot 7-284. Upper ACP Plot (NR Band n41 - 70MHz CP-OFDM-QPSK – Full RB - Ant J)




FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 169 of 231

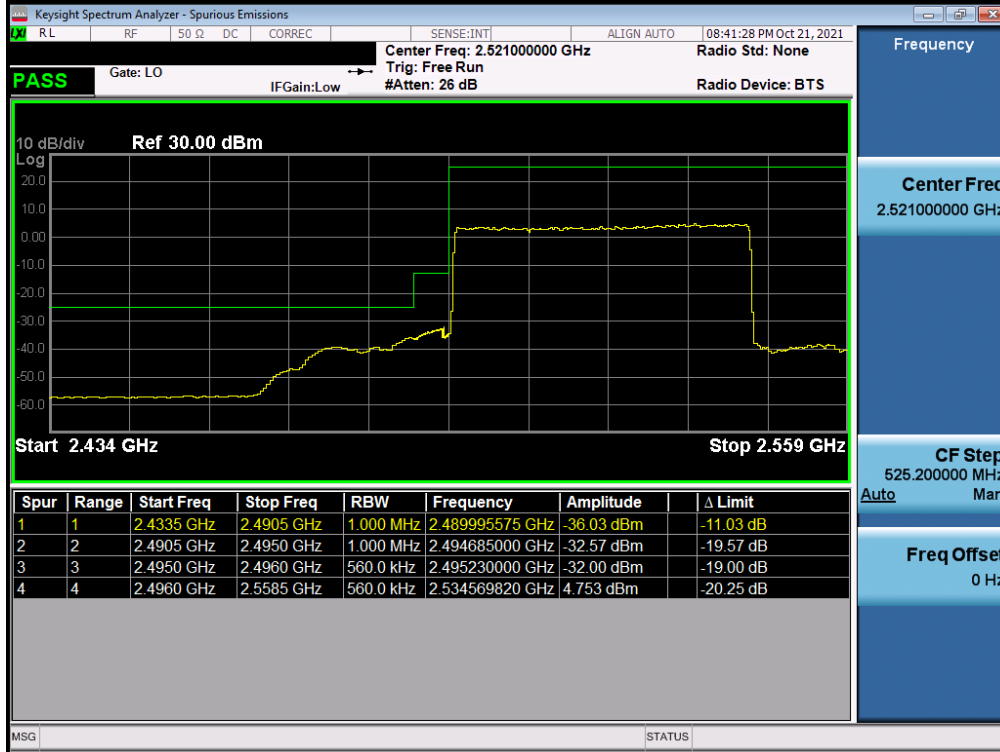


Plot 7-285. Lower ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK – Full RB - Ant J)

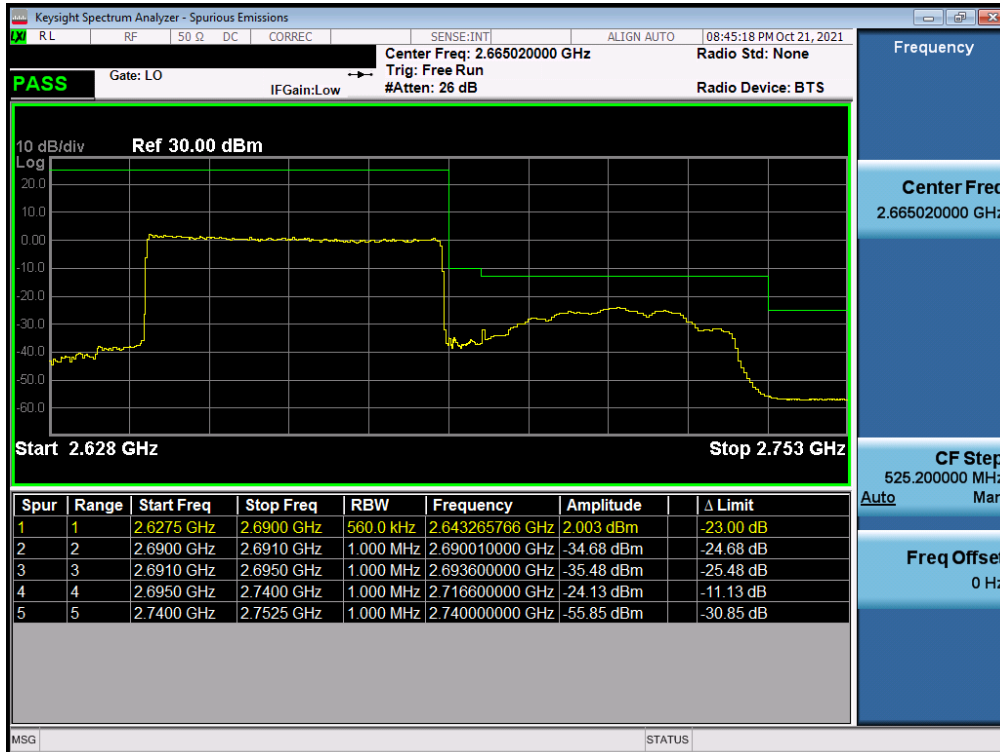


Plot 7-286. Upper ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK – Full RB - Ant J)

FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 170 of 231

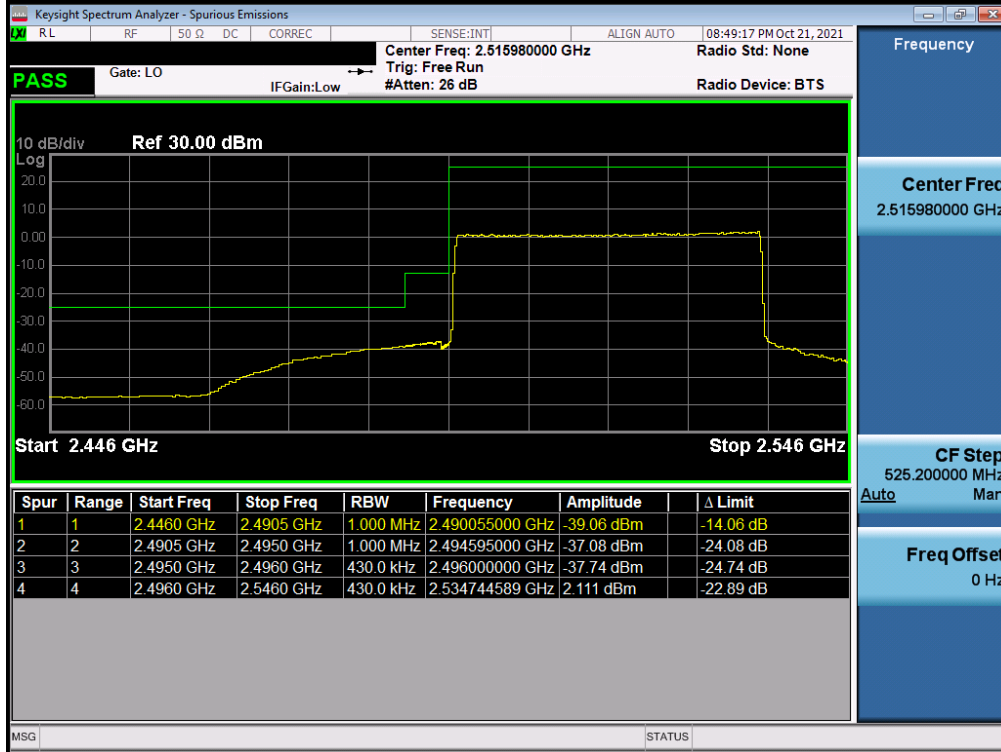


Plot 7-287. Lower ACP Plot (NR Band n41 - 50MHz CP-OFDM-QPSK – Full RB - Ant J)

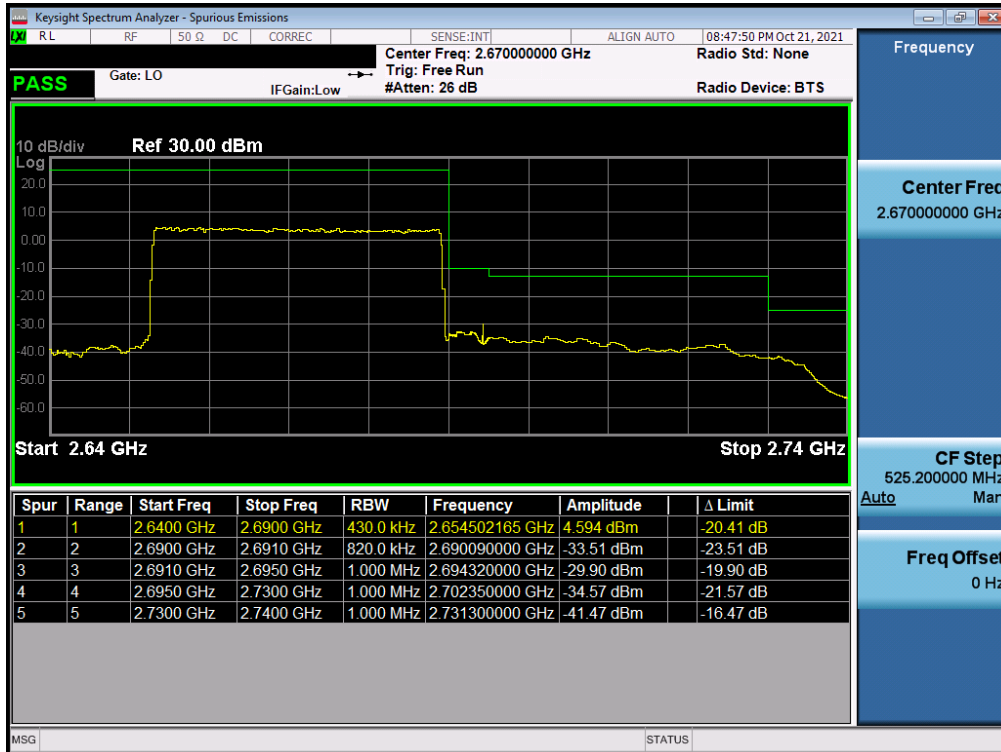


Plot 7-288. Upper ACP Plot (NR Band n41 - 50MHz CP-OFDM-QPSK – Full RB - Ant J)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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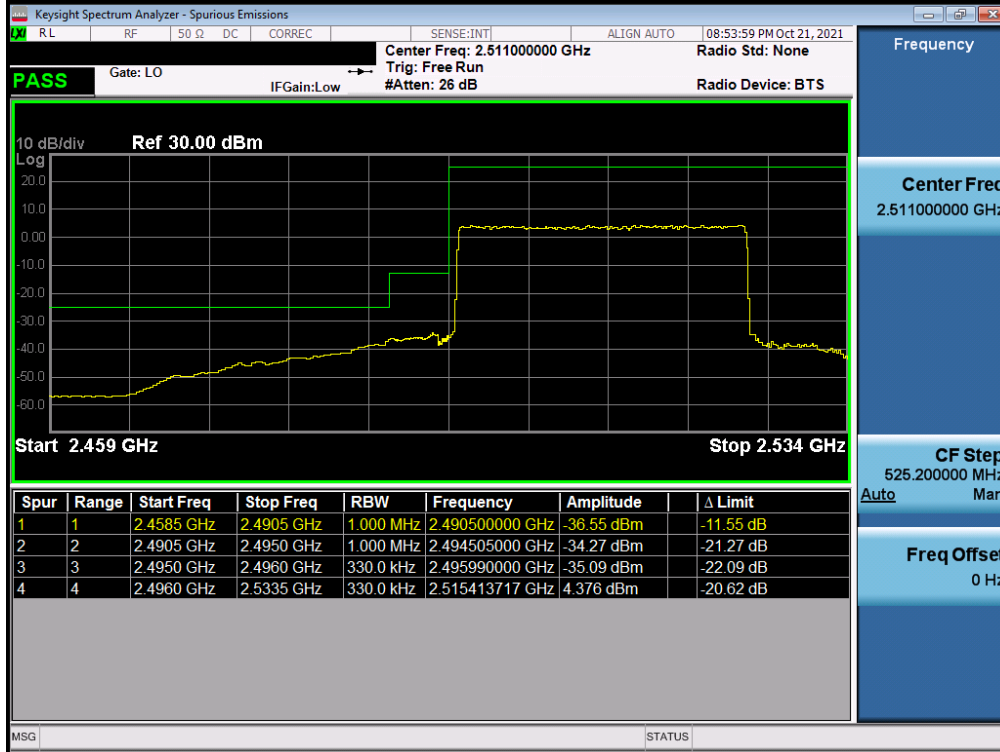


Plot 7-289. Lower ACP Plot (NR Band n41 - 40MHz CP-OFDM-QPSK - Full RB - Ant J)

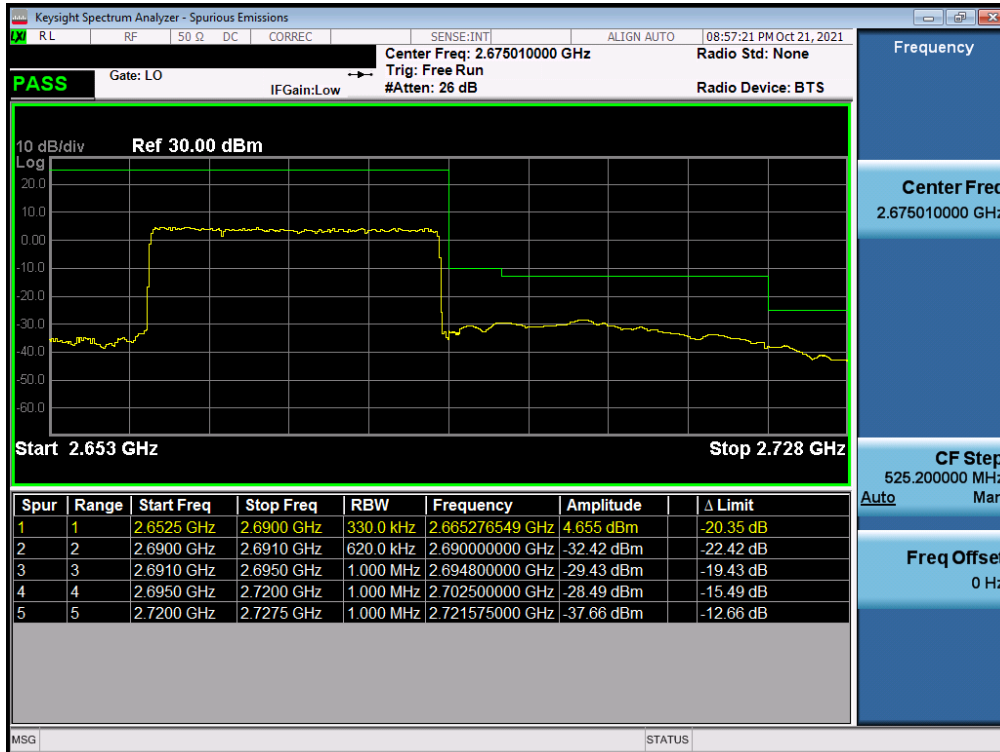


Plot 7-290. Upper ACP Plot (NR Band n41 - 40MHz CP-OFDM-QPSK - Full RB - Ant J)




FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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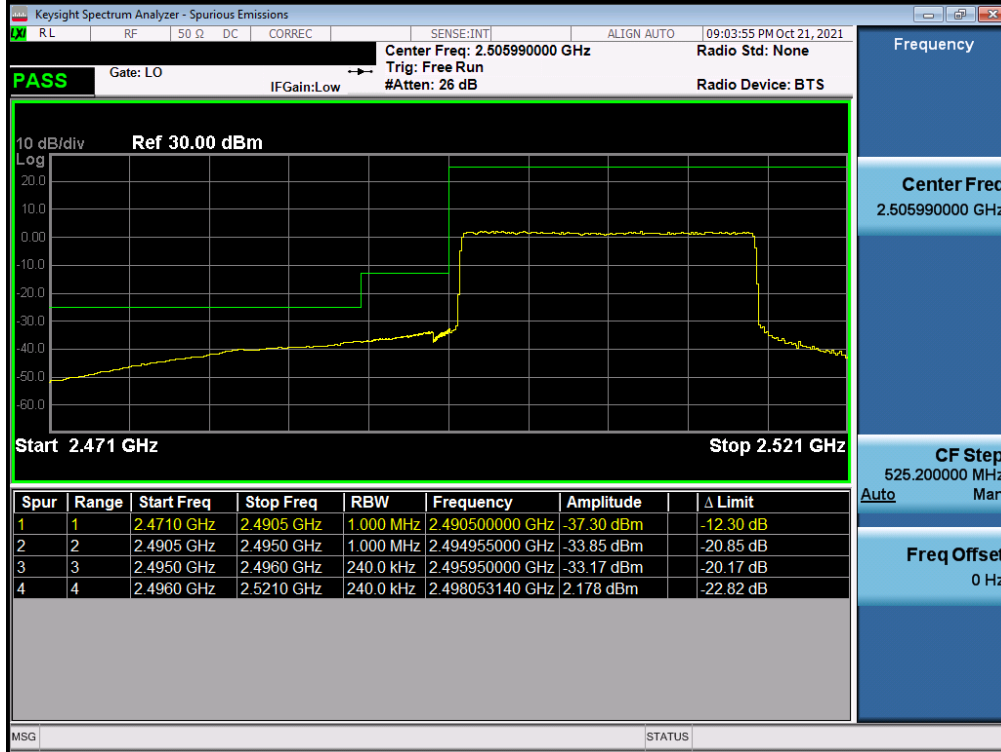


Plot 7-291. Lower ACP Plot (NR Band n41 - 30MHz CP-OFDM-QPSK – Full RB - Ant J)

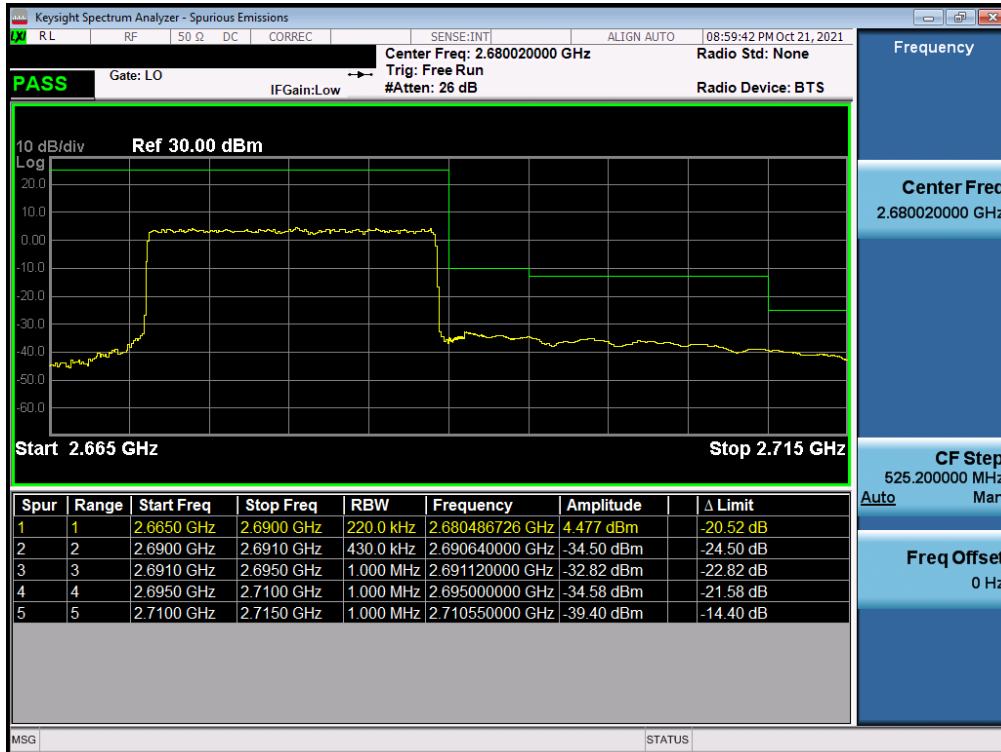


Plot 7-292. Upper ACP Plot (NR Band n41 - 30MHz CP-OFDM-QPSK – Full RB - Ant J)




FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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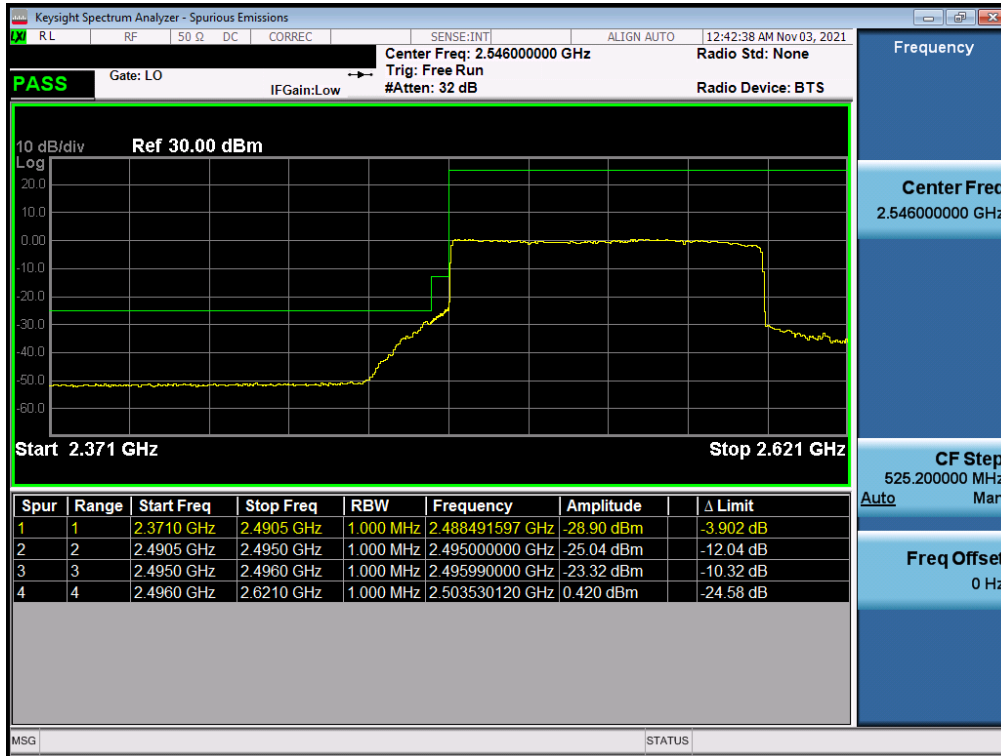
Plot 7-293. Lower ACP Plot (NR Band n41 - 20MHz CP-OFDM-QPSK – Full RB - Ant J)



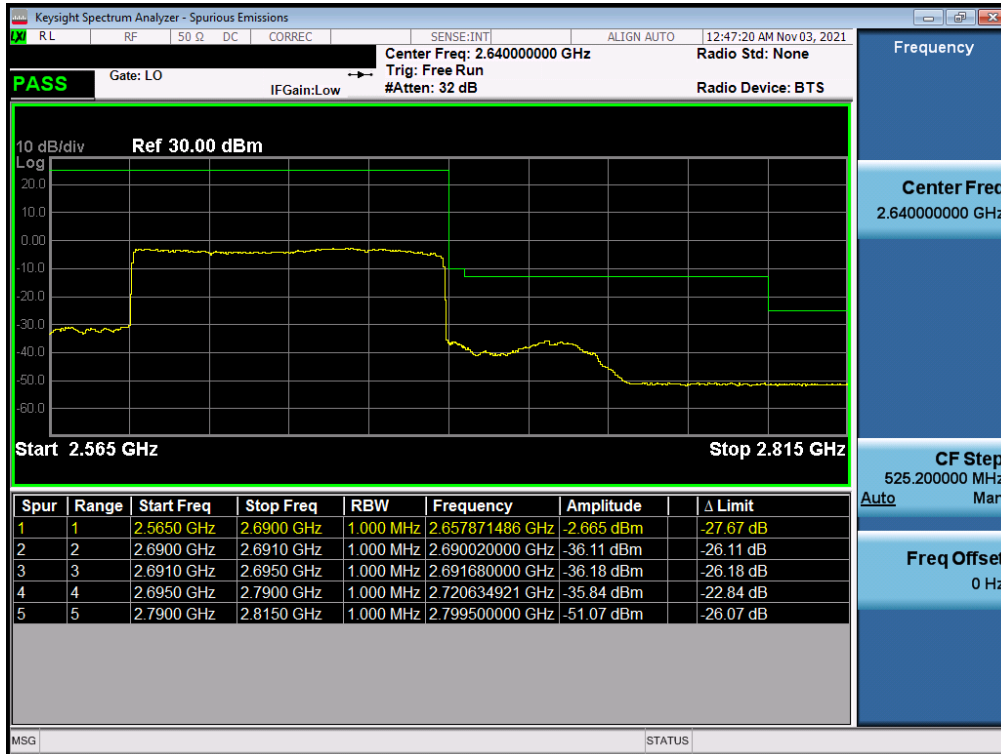
Plot 7-294. Upper ACP Plot (NR Band n41 - 20MHz CP-OFDM-QPSK – Full RB - Ant J)

FCC ID: A3LSMS908U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 174 of 231

NR Band n41 – SRS1 - Ant E



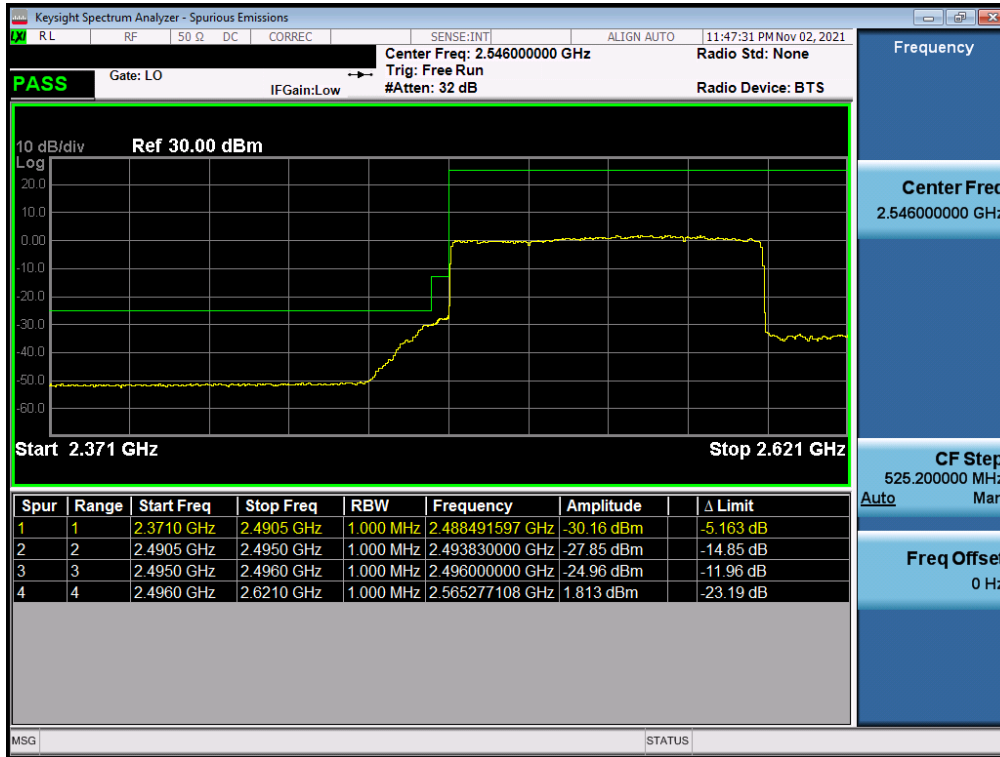
Plot 7-295. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant E)



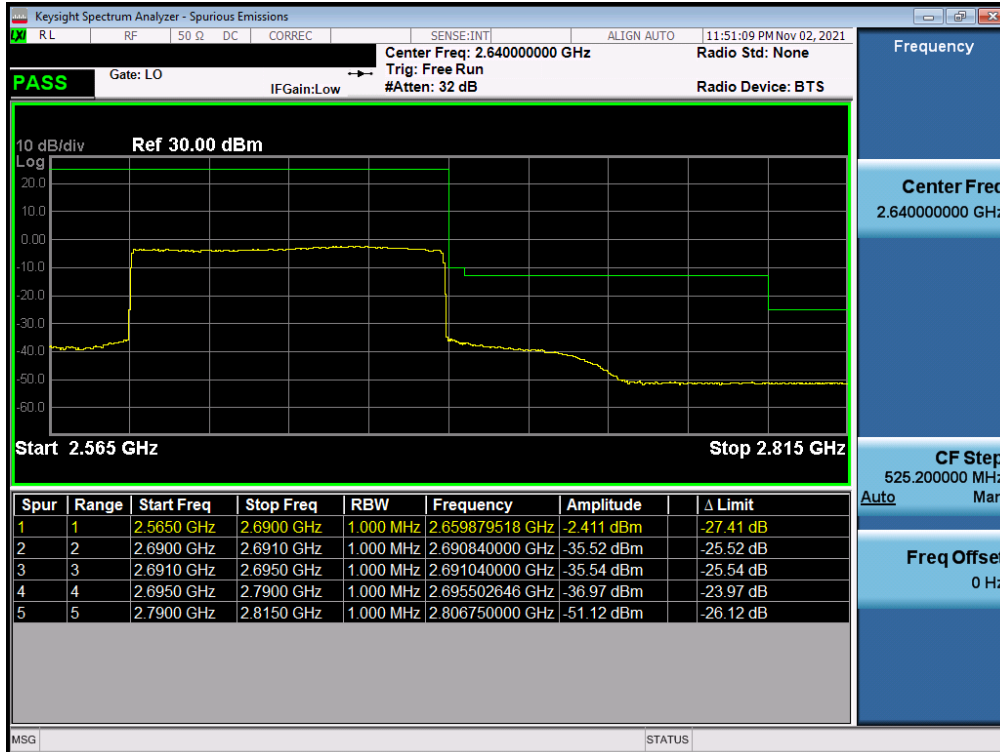
Plot 7-296. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant E)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 – SRS2 - Ant B



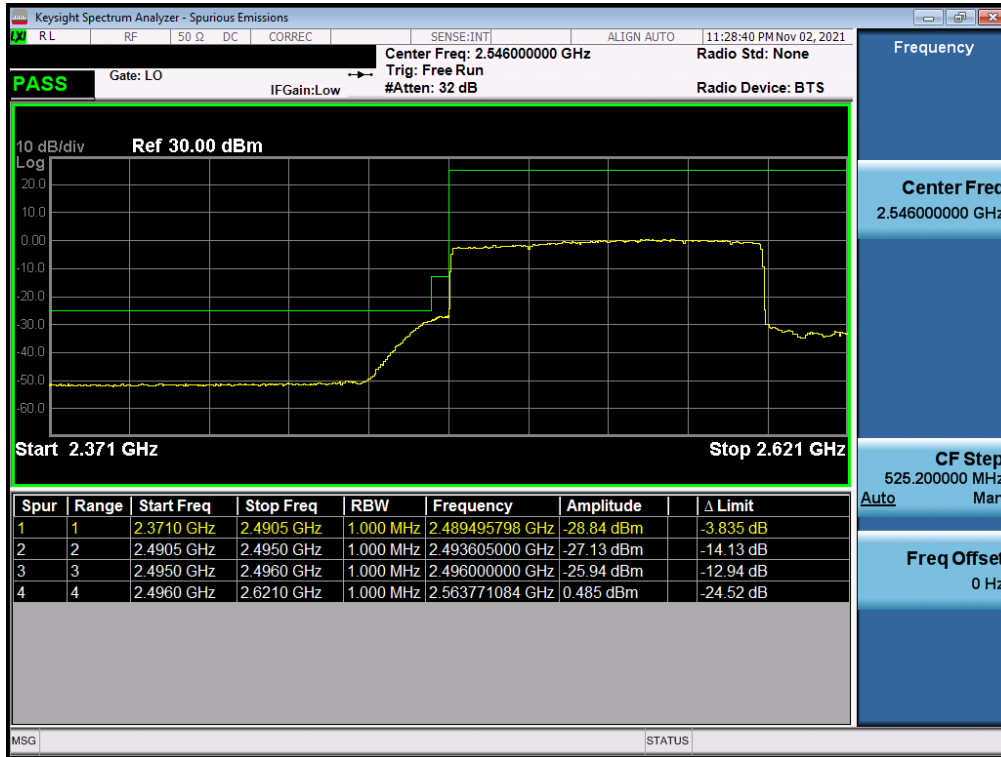
Plot 7-297. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant B)



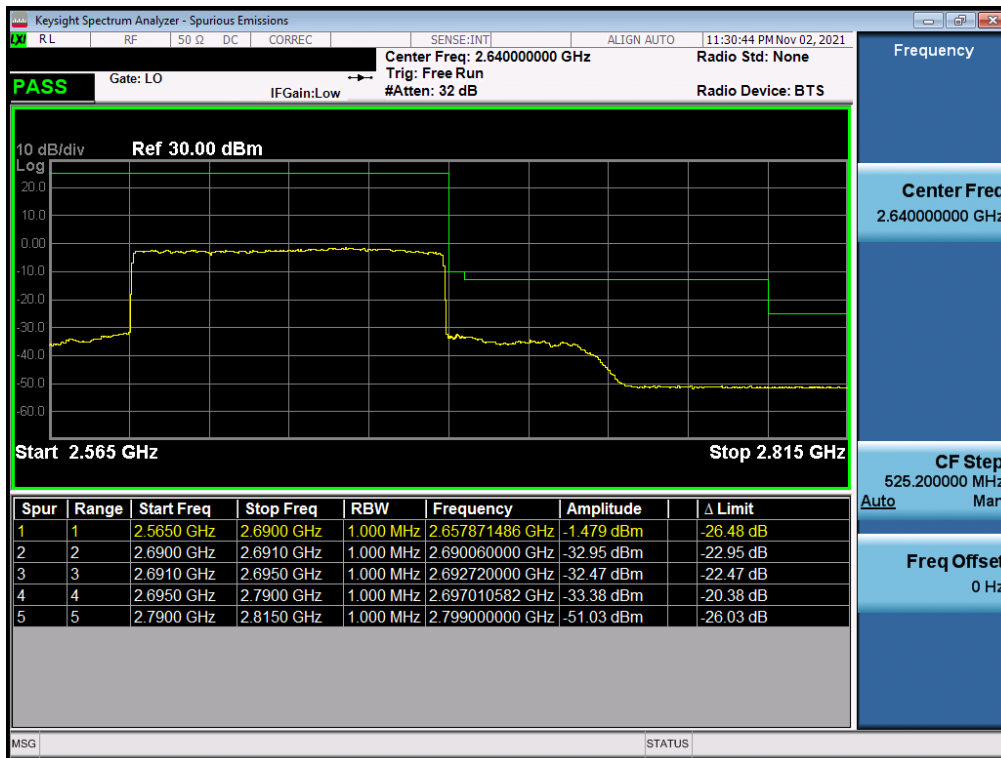
Plot 7-298. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant B)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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NR Band n41 – SRS3 - Ant D

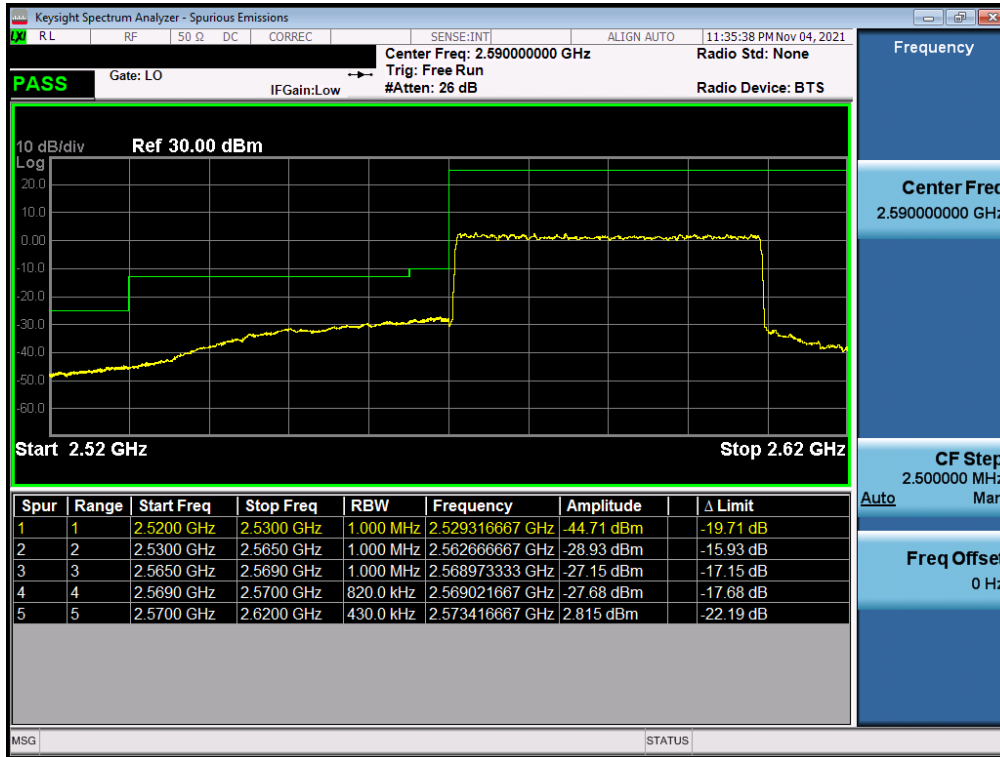


Plot 7-299. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant D)

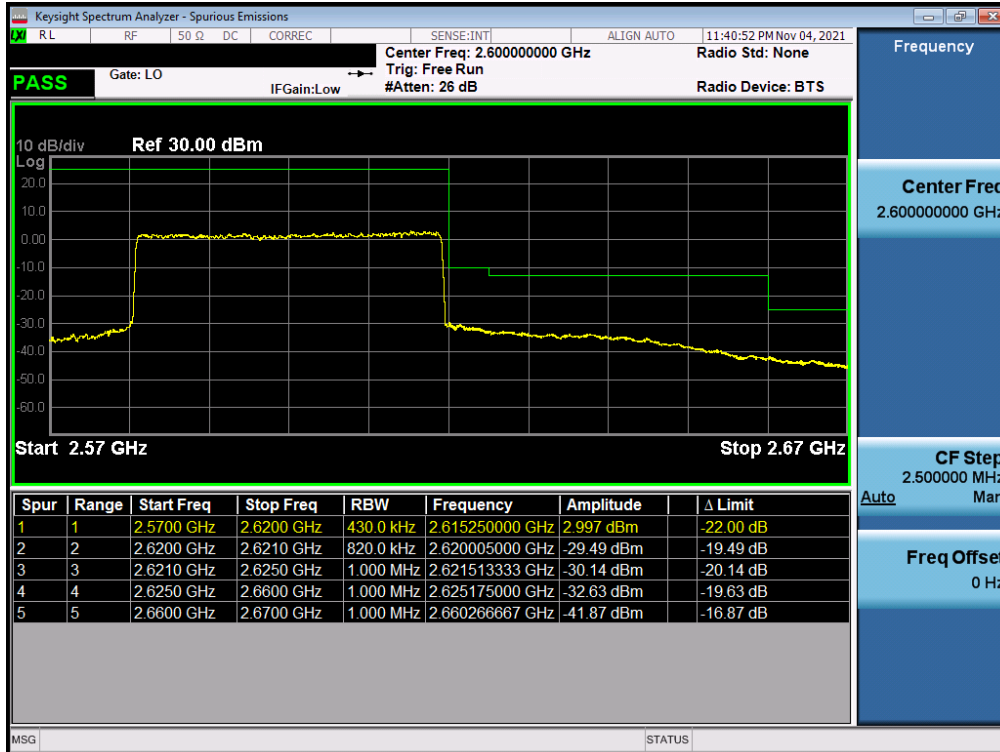


Plot 7-300. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant D)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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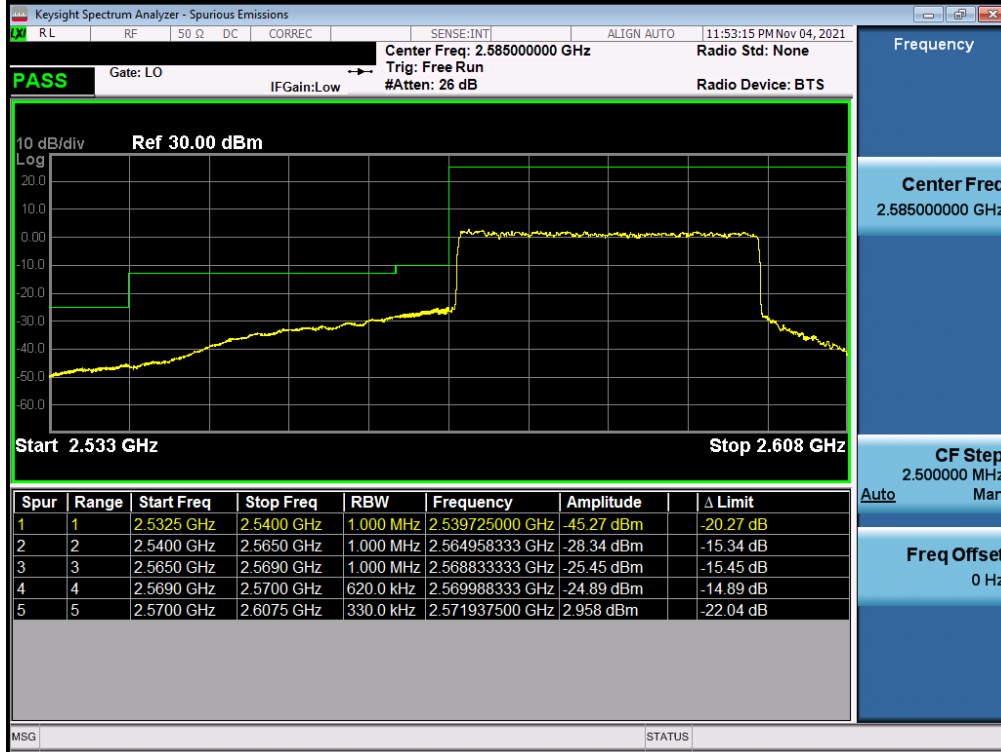


Plot 7-301. Lower Band Edge Plot (NR Band n38 - 40MHz CP-OFDM-QPSK - Full RB)

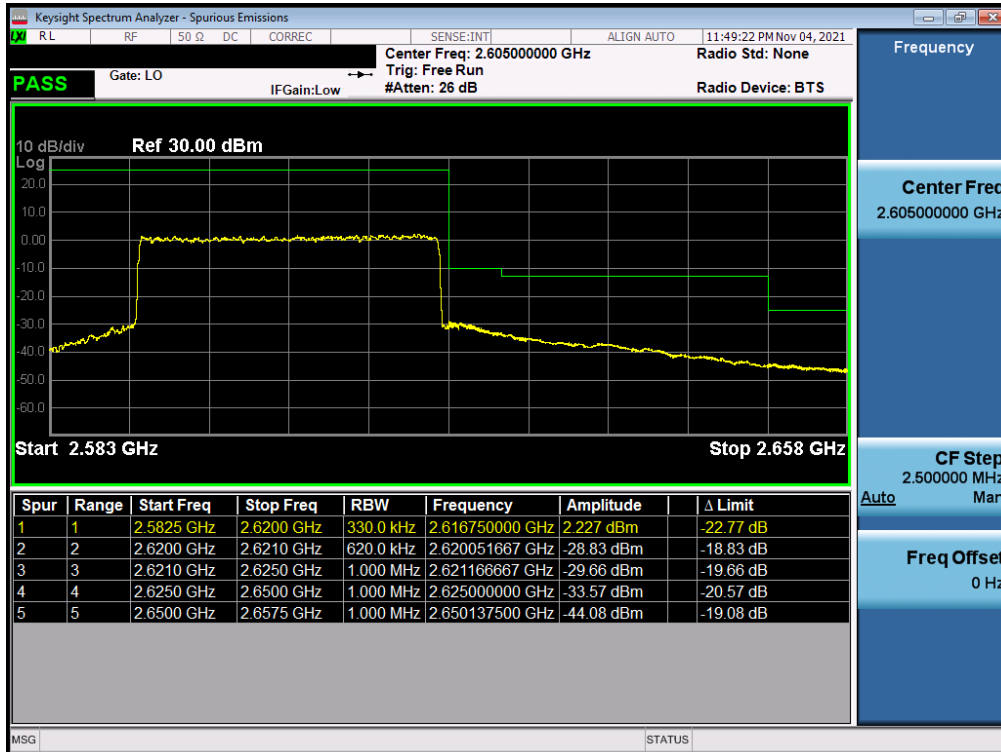


Plot 7-302. Upper Band Edge Plot (NR Band n38 - 40MHz CP-OFDM-QPSK - Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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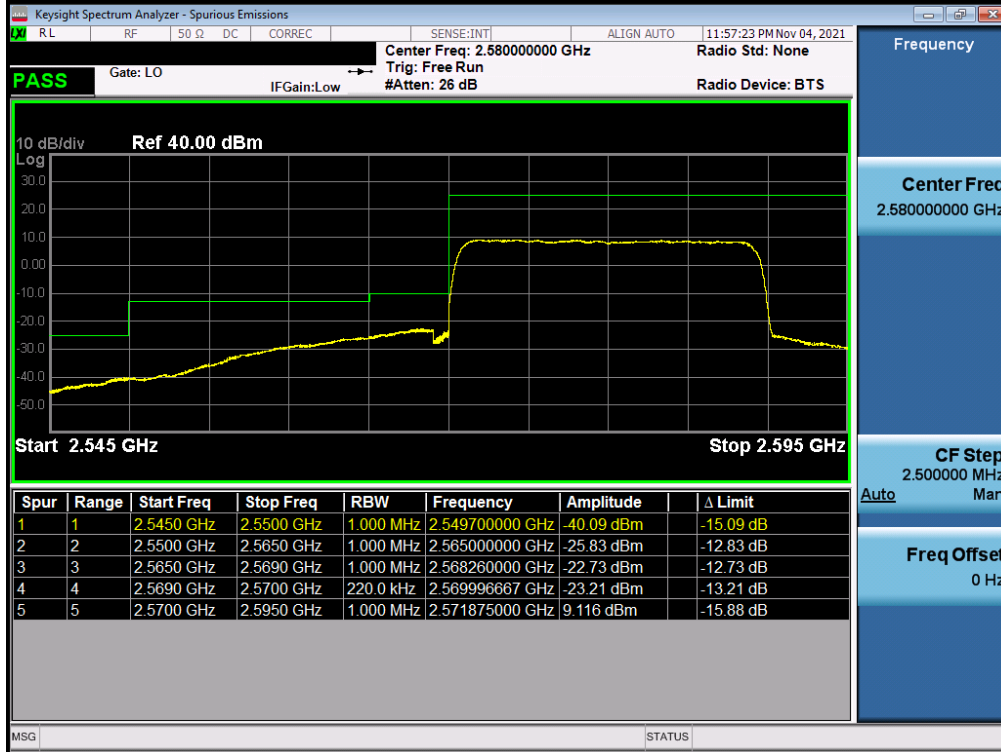


Plot 7-303. Lower Band Edge Plot (NR Band n38 - 30MHz CP-OFDM-QPSK – Full RB)

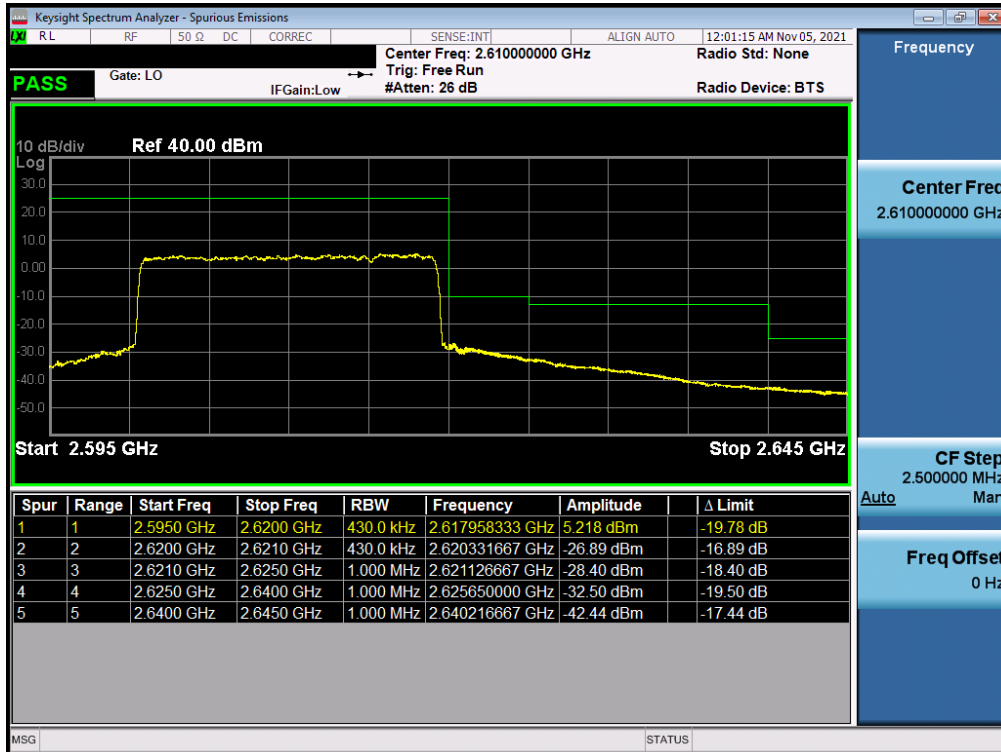


Plot 7-304. Upper Band Edge Plot (NR Band n38 - 30MHz CP-OFDM-QPSK – Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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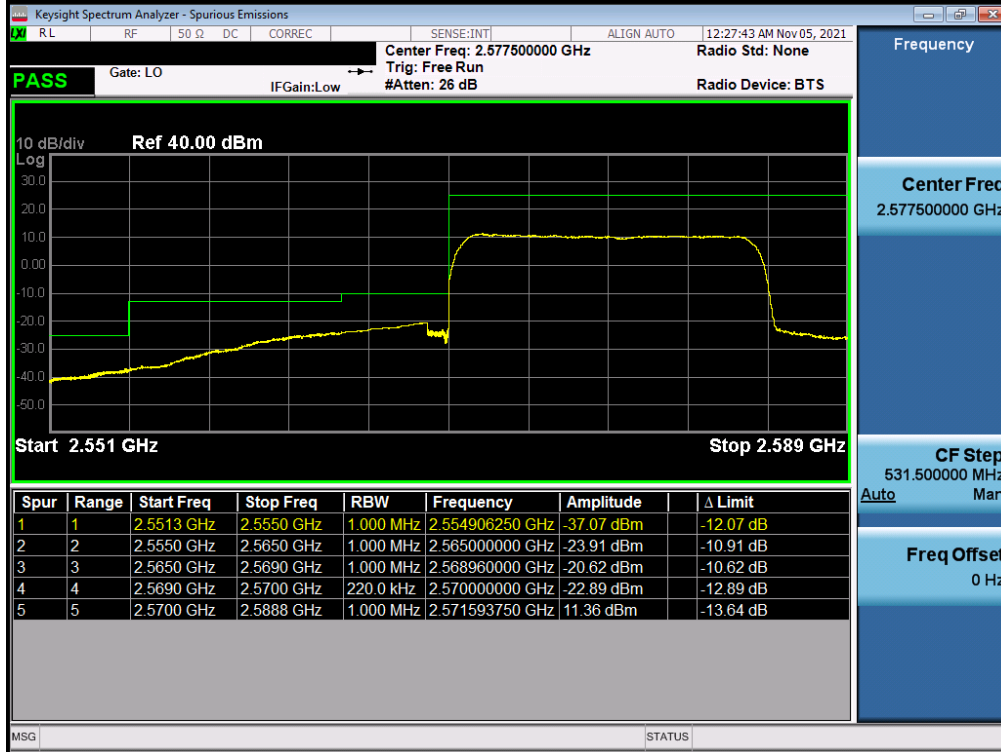


Plot 7-305. Lower Band Edge Plot (NR Band n38 - 20MHz CP-OFDM-QPSK – Full RB)

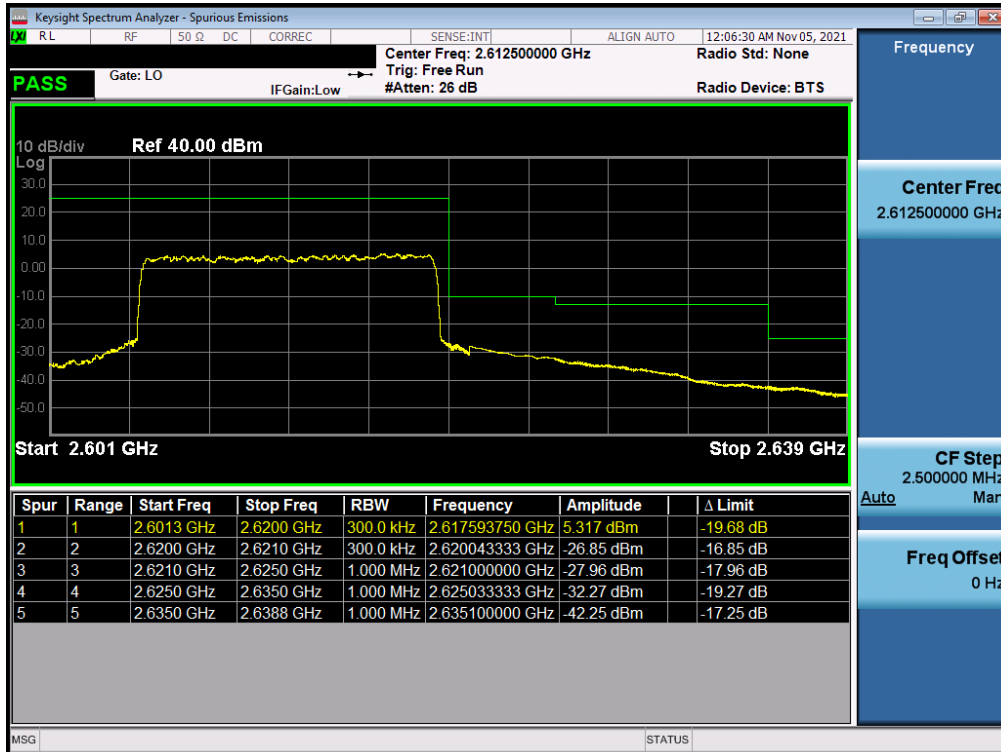


Plot 7-306. Upper Band Edge Plot (NR Band n38 - 20MHz CP-OFDM-QPSK – Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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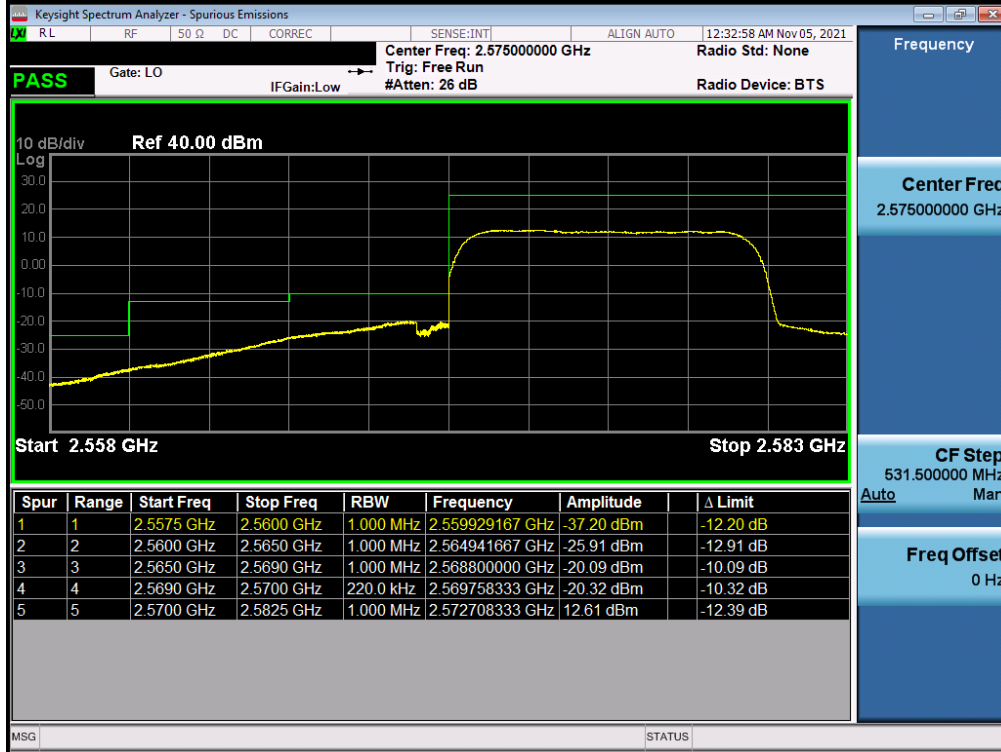


Plot 7-307. Lower Band Edge Plot (NR Band n38 - 15MHz CP-OFDM-QPSK – Full RB)

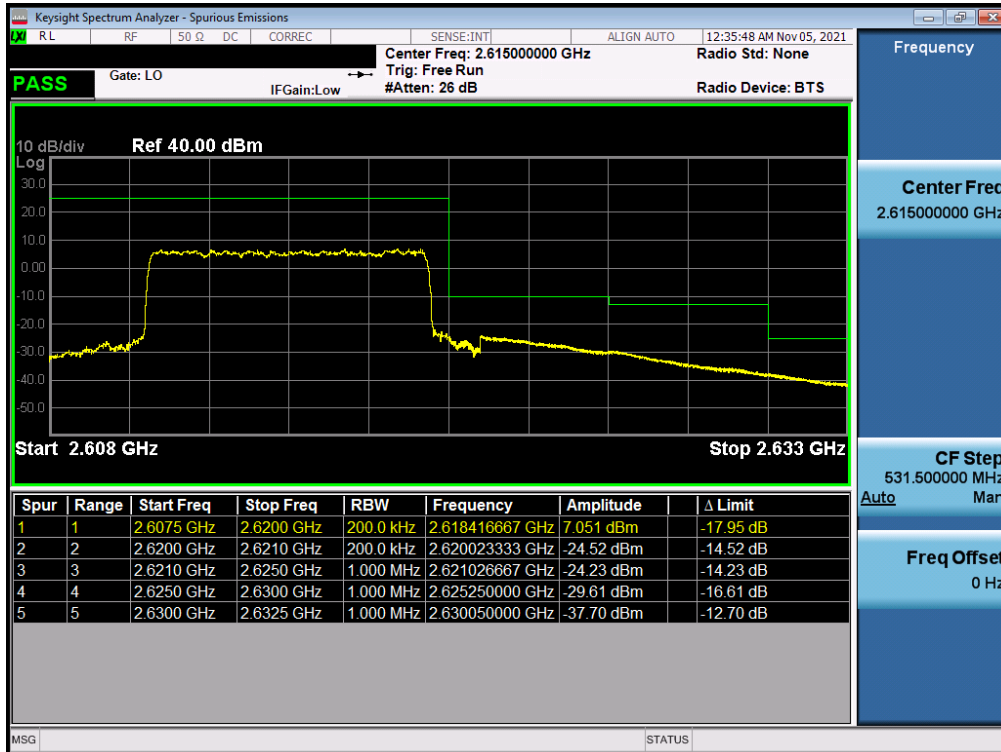


Plot 7-308. Upper Band Edge Plot (NR Band n38 - 15MHz CP-OFDM-QPSK – Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-309. Lower Band Edge Plot (NR Band n38 - 10MHz CP-OFDM-QPSK – Full RB)



Plot 7-310. Upper Band Edge Plot (NR Band n38 - 10MHz CP-OFDM-QPSK – Full RB)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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7.7 Radiated Power (EIRP)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.



Test Procedures Used

KDB 971168 D01 v03r01 - Section 5.2.1

ANSI/TIA-603-E-2016 - Section 2.2.17

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
2. RBW = 1 - 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

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Test Setup

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

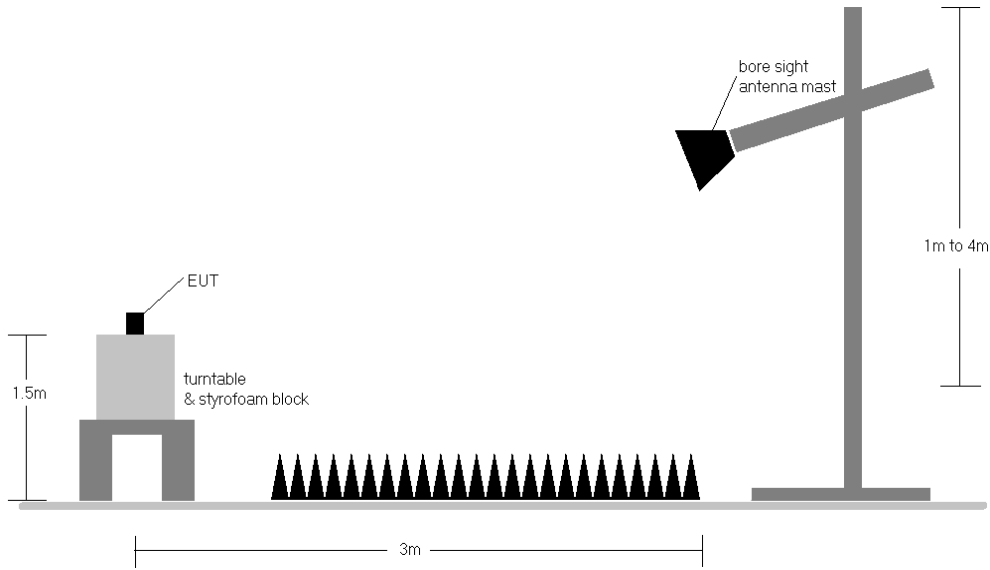




Figure 7-6. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	2310.0	V	155	310	10.37	1 / 25	11.94	22.31	0.170	23.98	-1.67
	16-QAM	2310.0	V	155	310	10.37	1 / 25	11.62	21.99	0.158	23.98	-1.99
5 MHz	QPSK	2307.5	V	155	310	10.36	1 / 12	12.11	22.47	0.177	23.98	-1.51
	QPSK	2310.0	V	155	310	10.37	1 / 12	11.99	22.36	0.172	23.98	-1.62
	QPSK	2312.5	V	155	310	10.36	1 / 0	11.98	22.33	0.171	23.98	-1.64
	16-QAM	2307.5	V	155	310	10.36	1 / 12	11.95	22.31	0.170	23.98	-1.67
10 MHz	Opposite Pol.	2310.0	H	100	92	10.37	1 / 25	10.68	21.05	0.127	23.98	-2.93
	WCP	2310.0	H	241	111	10.37	1 / 25	10.45	20.82	0.121	23.98	-3.16



Table 7-2. EIRP Data (LTE Band 30)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2510.0	H	180	155	9.51	1 / 50	12.60	22.11	0.163	33.01	-10.90
	QPSK	2535.0	H	115	146	9.40	1 / 0	12.29	21.69	0.148	33.01	-11.32
	QPSK	2560.0	H	109	136	9.43	1 / 99	11.79	21.22	0.132	33.01	-11.79
	16-QAM	2510.0	H	180	155	9.51	1 / 50	12.01	21.52	0.142	33.01	-11.49
15 MHz	QPSK	2507.5	H	180	155	9.50	1 / 0	12.63	22.14	0.164	33.01	-10.87
	QPSK	2535.0	H	115	146	9.40	1 / 74	12.27	21.68	0.147	33.01	-11.33
	QPSK	2562.5	H	109	136	9.43	1 / 37	11.76	21.19	0.131	33.01	-11.82
	16-QAM	2507.5	H	180	155	9.50	1 / 0	12.10	21.60	0.145	33.01	-11.41
10 MHz	QPSK	2505.0	H	180	155	9.50	1 / 0	12.81	22.31	0.170	33.01	-10.70
	QPSK	2535.0	H	115	146	9.40	1 / 25	12.40	21.80	0.151	33.01	-11.21
	QPSK	2565.0	H	109	136	9.42	1 / 49	11.84	21.26	0.134	33.01	-11.75
	16-QAM	2505.0	H	180	155	9.50	1 / 25	12.29	21.79	0.151	33.01	-11.22
5 MHz	QPSK	2502.5	H	180	155	9.49	1 / 0	12.93	22.42	0.175	33.01	-10.59
	QPSK	2535.0	H	115	146	9.40	1 / 12	12.44	21.84	0.153	33.01	-11.17
	QPSK	2567.5	H	109	136	9.42	1 / 12	11.96	21.37	0.137	33.01	-11.64
	16-QAM	2502.5	H	180	155	9.49	1 / 12	12.35	21.85	0.153	33.01	-11.16
20 MHz	Opposite Pol.	2510.0	V	150	267	9.40	1 / 50	10.96	20.36	0.109	33.01	-12.65
	WCP	2510.0	H	152	311	9.40	1 / 50	11.01	20.41	0.110	33.01	-12.60

Table 7-3. EIRP Data (LTE Band 7)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	139	135	9.50	1 / 50	16.02	25.52	0.357	33.01	-7.49
	QPSK	2593.0	H	112	146	9.49	1 / 0	16.03	25.52	0.357	33.01	-7.49
	QPSK	2680.0	H	126	131	9.87	1 / 0	16.16	26.03	0.401	33.01	-6.98
	16-QAM	2680.0	H	126	131	9.87	1 / 50	15.66	25.53	0.357	33.01	-7.48
15 MHz	QPSK	2503.5	H	139	135	9.50	1 / 0	15.03	24.52	0.283	33.01	-8.49
	QPSK	2593.0	H	112	146	9.49	1 / 0	15.94	25.43	0.349	33.01	-7.58
	QPSK	2682.5	H	126	131	9.87	1 / 37	16.10	25.96	0.395	33.01	-7.05
	16-QAM	2682.5	H	126	131	9.87	1 / 37	15.69	25.55	0.359	33.01	-7.46
10 MHz	QPSK	2501.0	H	139	135	9.49	1 / 25	16.21	25.70	0.372	33.01	-7.31
	QPSK	2593.0	H	112	146	9.49	1 / 25	16.36	25.85	0.385	33.01	-7.16
	QPSK	2685.0	H	126	131	9.86	1 / 25	15.42	25.28	0.337	33.01	-7.73
	16-QAM	2685.0	H	126	131	9.86	1 / 25	14.99	24.85	0.306	33.01	-8.16
5 MHz	QPSK	2498.5	H	139	135	9.49	1 / 12	16.49	25.98	0.396	33.01	-7.03
	QPSK	2593.0	H	112	146	9.49	1 / 12	16.13	25.62	0.365	33.01	-7.39
	QPSK	2687.5	H	126	131	9.86	1 / 12	16.21	26.06	0.404	33.01	-6.95
	16-QAM	2593.0	H	112	146	9.49	1 / 0	16.34	25.83	0.383	33.01	-7.18
20 MHz	Opposite Pol.	2680.0	V	120	85	9.51	1 / 50	15.29	24.80	0.302	33.01	-8.21
	WCP	2680.0	H	126	131	9.87	1/0	15.28	25.15	0.327	33.01	-7.86

Table 7-4. EIRP Data (LTE Band 41(PC2))

FCC ID: A3LSMS908U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset	Page 185 of 231

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	115	128	9.50	1 / 0	15.06	24.56	0.286	33.01	-8.45
	QPSK	2593.0	H	115	130	9.49	1 / 0	13.89	23.38	0.218	33.01	-9.63
	QPSK	2680.0	H	126	119	9.87	1 / 50	12.92	22.79	0.190	33.01	-10.22
	16-QAM	2506.0	H	115	128	9.50	1 / 0	13.22	22.72	0.187	33.01	-10.29
15 MHz	QPSK	2503.5	H	115	128	9.50	1 / 74	15.05	24.54	0.285	33.01	-8.47
	QPSK	2593.0	H	115	130	9.49	1 / 37	13.48	22.97	0.198	33.01	-10.04
	QPSK	2682.5	H	126	119	9.87	1 / 74	12.87	22.73	0.188	33.01	-10.28
	16-QAM	2503.5	H	115	128	9.50	1 / 74	13.04	22.53	0.179	33.01	-10.48
10 MHz	QPSK	2501.0	H	115	128	9.49	1 / 25	15.05	24.54	0.284	33.01	-8.47
	QPSK	2593.0	H	115	130	9.49	1 / 25	13.92	23.42	0.220	33.01	-9.59
	QPSK	2685.0	H	126	119	9.86	1 / 25	12.97	22.83	0.192	33.01	-10.18
	16-QAM	2501.0	H	115	128	9.49	1 / 0	13.23	22.72	0.187	33.01	-10.29
5 MHz	QPSK	2498.5	H	115	128	9.49	1 / 12	15.10	24.59	0.288	33.01	-8.42
	QPSK	2593.0	H	115	130	9.49	1 / 24	14.06	23.55	0.226	33.01	-9.46
	QPSK	2687.5	H	126	119	9.86	1 / 24	12.92	22.77	0.189	33.01	-10.24
	16-QAM	2498.5	H	115	128	9.49	1 / 12	13.63	23.12	0.205	33.01	-9.89
20 MHz	Opposite Pol.	2506.0	V	100	74	9.54	1/99	12.59	22.13	0.163	33.01	-10.88
	WCP	2506.0	H	115	128	9.50	1/0	13.28	22.78	0.190	33.01	-10.23



Table 7-5. EIRP Data (LTE Band 41(PC3)/38)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	$\pi/2$ BPSK	2310.0	V	113	45	10.37	1 / 13	9.73	20.10	0.102	23.98	-3.88
	QPSK	2310.0	V	113	45	10.37	1 / 13	9.66	20.03	0.101	23.98	-3.95
	16-QAM	2310.0	V	113	45	10.37	1 / 13	8.83	19.20	0.083	23.98	-4.78
5 MHz	$\pi/2$ BPSK	2307.5	V	113	45	10.36	1 / 12	9.62	19.98	0.099	23.98	-4.00
	$\pi/2$ BPSK	2310.0	V	113	45	10.37	1 / 12	9.67	20.04	0.101	23.98	-3.94
	$\pi/2$ BPSK	2312.5	V	113	45	10.36	1 / 12	9.82	20.18	0.104	23.98	-3.80
	QPSK	2307.5	V	113	45	10.36	1 / 12	9.76	20.12	0.103	23.98	-3.86
	QPSK	2310.0	V	113	45	10.37	1 / 12	9.67	20.04	0.101	23.98	-3.94
	QPSK	2312.5	V	113	45	10.36	1 / 12	9.83	20.19	0.105	23.98	-3.79
	16-QAM	2310.0	V	113	45	10.37	1 / 12	9.02	19.39	0.087	23.98	-4.58
10 MHz	QPSK (CP-OFDM)	2310.0	V	149	56	10.37	1 / 26	8.22	18.59	0.072	23.98	-5.39
	Opposite Pol.	2310.0	H	102	33	10.55	1 / 26	9.73	20.28	0.107	23.98	-3.70
	WCP	2310.0	V	124	148	10.37	1 / 26	5.43	15.80	0.038	23.98	-8.18

Table 7-6. EIRP Data (NR Band n30 - Ant A)



Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	$\pi/2$ BPSK	2310.0	H	216	181	10.55	1 / 26	11.20	21.75	0.149	23.98	-2.23
	QPSK	2310.0	H	216	181	10.55	1 / 26	11.06	21.61	0.145	23.98	-2.37
	16-QAM	2310.0	H	216	181	10.55	1 / 26	10.62	21.17	0.131	23.98	-2.81
5 MHz	$\pi/2$ BPSK	2307.5	H	216	181	10.52	1 / 18	11.28	21.79	0.151	23.98	-2.19
	$\pi/2$ BPSK	2310.0	H	216	181	10.55	1 / 6	11.08	21.63	0.145	23.98	-2.35
	$\pi/2$ BPSK	2312.5	H	216	181	10.56	1 / 18	11.30	21.86	0.154	23.98	-2.12
	QPSK	2307.5	H	216	181	10.52	1 / 18	11.01	21.53	0.142	23.98	-2.45
	QPSK	2310.0	H	216	181	10.55	1 / 6	10.77	21.32	0.135	23.98	-2.66
	QPSK	2312.5	H	216	181	10.56	1 / 18	10.54	21.10	0.129	23.98	-2.87
	16-QAM	2307.5	H	216	181	10.52	1 / 18	10.47	20.98	0.125	23.98	-2.99
10 MHz	QPSK (CP-OFDM)	2310.0	H	218	174	10.55	1 / 26	10.30	20.85	0.121	23.98	-3.13
	Opposite Pol.	2310.0	V	101	309	10.37	52 / 0	10.63	21.00	0.126	23.98	-2.98
	WCP	2310.0	H	103	166	10.55	1 / 26	10.07	20.62	0.115	23.98	-3.36

Table 7-7. EIRP Data (NR Band n30 - Ant J)

FCC ID: A3LSMS908U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset	Page 186 of 231



Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	π/2 BPSK	2520.0	H	153	38	9.51	1/54	13.53	23.04	0.201	33.01	-9.97
		2535.0	H	109	53	9.40	1/108	13.17	22.57	0.181	33.01	-10.44
		2550.0	H	203	47	9.43	1/108	13.73	23.16	0.207	33.01	-9.85
	QPSK	2520.0	H	153	38	9.51	1/54	13.59	23.10	0.204	33.01	-9.91
		2535.0	H	109	53	9.40	1/108	13.40	22.80	0.191	33.01	-10.21
		2550.0	H	203	47	9.43	1/108	13.64	23.07	0.203	33.01	-9.94
16-QAM	2550.0	H	203	47	9.43	1/108	12.85	22.28	0.169	33.01	-10.73	
30 MHz	π/2 BPSK	2515.0	H	153	38	9.50	1/40	13.66	23.16	0.207	33.01	-9.85
		2535.0	H	109	53	9.40	1/80	13.13	22.53	0.179	33.01	-10.48
		2555.0	H	203	47	9.43	1/119	13.54	22.96	0.198	33.01	-10.05
	QPSK	2515.0	H	153	38	9.50	1/40	13.48	22.98	0.199	33.01	-10.03
		2535.0	H	109	53	9.40	1/80	13.22	22.62	0.183	33.01	-10.39
		2555.0	H	203	47	9.43	1/119	13.44	22.87	0.194	33.01	-10.14
16-QAM	2515.0	H	153	38	9.50	1/40	12.75	22.25	0.168	33.01	-10.76	
25 MHz	π/2 BPSK	2512.5	H	153	38	9.50	1/33	13.94	23.44	0.221	33.01	-9.57
		2535.0	H	109	53	9.40	1/99	13.15	22.55	0.180	33.01	-10.46
		2557.5	H	203	47	9.42	1/33	13.81	23.23	0.210	33.01	-9.78
	QPSK	2512.5	H	153	38	9.50	1/33	13.76	23.26	0.212	33.01	-9.75
		2535.0	H	109	53	9.40	1/99	13.13	22.54	0.179	33.01	-10.47
		2557.5	H	203	47	9.42	1/33	13.65	23.07	0.203	33.01	-9.94
16-QAM	2512.5	H	153	38	9.50	1/33	13.03	22.52	0.179	33.01	-10.49	
20 MHz	π/2 BPSK	2510.0	H	153	38	9.51	1 / 79	13.38	22.89	0.194	33.01	-10.12
		2535.0	H	109	53	9.40	1 / 79	12.87	22.27	0.169	33.01	-10.74
		2560.0	H	203	47	9.43	1 / 79	13.42	22.85	0.193	33.01	-10.16
	QPSK	2510.0	H	153	38	9.51	1 / 79	13.20	22.71	0.187	33.01	-10.30
		2535.0	H	109	53	9.40	1 / 79	12.82	22.22	0.167	33.01	-10.79
		2560.0	H	203	47	9.43	1 / 79	13.32	22.75	0.188	33.01	-10.26
16-QAM	2510.0	H	153	38	9.51	1 / 79	12.43	21.94	0.156	33.01	-11.07	
15 MHz	π/2 BPSK	2507.5	H	153	38	9.50	1 / 20	13.51	23.02	0.200	33.01	-9.99
		2535.0	H	109	53	9.40	1 / 20	12.80	22.20	0.166	33.01	-10.81
		2562.5	H	203	47	9.43	1 / 58	13.38	22.81	0.191	33.01	-10.20
	QPSK	2507.5	H	153	38	9.50	1 / 20	13.16	22.66	0.185	33.01	-10.35
		2535.0	H	109	53	9.40	1 / 20	12.79	22.19	0.166	33.01	-10.82
		2562.5	H	203	47	9.43	1 / 58	13.40	22.83	0.192	33.01	-10.18
16-QAM	2507.5	H	153	38	9.50	1 / 20	12.69	22.20	0.166	33.01	-10.81	
10 MHz	π/2 BPSK	2505.0	H	153	38	9.50	1 / 38	13.72	23.22	0.210	33.01	-9.79
		2535.0	H	109	53	9.40	1 / 38	13.05	22.45	0.176	33.01	-10.56
		2565.0	H	203	47	9.42	1 / 38	13.61	23.04	0.201	33.01	-9.98
	QPSK	2505.0	H	153	38	9.50	1 / 38	13.47	22.97	0.198	33.01	-10.04
		2535.0	H	109	53	9.40	1 / 38	13.02	22.42	0.175	33.01	-10.59
		2565.0	H	203	47	9.42	1 / 38	13.41	22.83	0.192	33.01	-10.18
16-QAM	2565.0	H	203	47	9.42	1 / 38	13.04	22.46	0.176	33.01	-10.55	
5 MHz	π/2 BPSK	2502.5	H	153	38	9.49	1 / 6	13.77	23.26	0.212	33.01	-9.75
		2535.0	H	109	53	9.40	1 / 12	13.09	22.49	0.177	33.01	-10.52
		2567.5	H	203	47	9.42	1 / 6	13.66	23.08	0.203	33.01	-9.94
	QPSK	2502.5	H	153	38	9.49	1 / 6	13.41	22.90	0.195	33.01	-10.11
		2535.0	H	109	53	9.40	1 / 12	13.06	22.46	0.176	33.01	-10.55
		2567.5	H	203	47	9.42	1 / 6	13.40	22.81	0.191	33.01	-10.20
16-QAM	2502.5	H	153	38	9.49	1 / 6	12.85	22.34	0.172	33.01	-10.67	
40 MHz	QPSK (CP-OFDM)	2550.0	H	203	46	9.43	1 / 53	12.32	21.75	0.150	33.01	-11.26
	QPSK (Opposite Pol.)	2550.0	V	113	32	9.40	1 / 79	13.32	22.72	0.187	33.01	-10.29
	QPSK (WCP)	2550.0	H	242	35	9.43	1 / 26	13.41	22.84	0.192	33.01	-10.17

Table 7-8. EIRP Data (NR Band n7 - Ant B)

FCC ID: A3LSMS908U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset	Page 187 of 231

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	2546.0	H	143	40	9.38	1 / 68	14.08	23.46	0.222	33.01	-9.55
	π/2 BPSK	2593.0	H	102	50	9.49	1 / 136	14.56	24.05	0.254	33.01	-8.96
	π/2 BPSK	2640.0	H	133	47	9.89	1 / 136	14.52	24.41	0.276	33.01	-8.60
	QPSK	2546.0	H	143	40	9.38	1 / 68	13.70	23.08	0.203	33.01	-9.93
	QPSK	2593.0	H	102	50	9.49	1 / 136	14.27	23.76	0.238	33.01	-9.25
	QPSK	2640.0	H	133	47	9.89	1 / 136	14.18	24.07	0.255	33.01	-8.94
16-QAM	2640.0	H	133	47	9.89	1 / 136	13.91	23.80	0.240	33.01	-9.21	
90 MHz	π/2 BPSK	2541.0	H	143	40	9.39	1 / 183	14.38	23.76	0.238	33.01	-9.25
	π/2 BPSK	2593.0	H	102	50	9.49	1 / 61	14.59	24.08	0.256	33.01	-8.93
	π/2 BPSK	2645.0	H	133	47	9.91	1 / 61	14.52	24.43	0.277	33.01	-8.58
	QPSK	2541.0	H	143	40	9.39	1 / 183	13.45	22.83	0.192	33.01	-10.18
	QPSK	2593.0	H	102	50	9.49	1 / 61	14.68	24.17	0.261	33.01	-8.84
	QPSK	2645.0	H	133	47	9.91	1 / 61	14.14	24.06	0.255	33.01	-8.95
16-QAM	2645.0	H	133	47	9.91	1 / 61	13.66	23.58	0.228	33.01	-9.43	
80 MHz	π/2 BPSK	2536.0	H	143	40	9.40	1 / 162	14.20	23.60	0.229	33.01	-9.41
	π/2 BPSK	2593.0	H	102	50	9.49	1 / 54	14.68	24.17	0.261	33.01	-8.84
	π/2 BPSK	2650.0	H	133	47	9.93	1 / 54	14.49	24.43	0.277	33.01	-8.58
	QPSK	2536.0	H	143	40	9.40	1 / 162	13.50	22.90	0.195	33.01	-10.12
	QPSK	2593.0	H	102	50	9.49	1 / 54	14.53	24.02	0.252	33.01	-8.99
	QPSK	2650.0	H	133	47	9.93	1 / 54	14.28	24.21	0.264	33.01	-8.80
16-QAM	2650.0	H	133	47	9.93	1 / 54	14.13	24.06	0.255	33.01	-8.95	
70 MHz	π/2 BPSK	2531.0	H	143	40	9.43	1 / 40	14.11	23.54	0.226	33.01	-9.47
	π/2 BPSK	2593.0	H	102	50	9.49	1 / 40	14.72	24.22	0.264	33.01	-8.79
	π/2 BPSK	2655.0	H	133	47	9.85	1 / 40	15.11	24.96	0.314	33.01	-8.05
	QPSK	2531.0	H	143	40	9.43	1 / 40	13.10	22.53	0.179	33.01	-10.48
	QPSK	2593.0	H	102	50	9.49	1 / 40	14.68	24.17	0.261	33.01	-8.84
	QPSK	2655.0	H	133	47	9.85	1 / 40	14.52	24.37	0.274	33.01	-8.64
16-QAM	2655.0	H	133	47	9.85	1 / 40	14.15	24.00	0.251	33.01	-9.01	
60 MHz	π/2 BPSK	2526.0	H	143	40	9.43	1 / 121	14.15	23.58	0.228	33.01	-9.43
	π/2 BPSK	2593.0	H	102	50	9.49	1 / 40	14.93	24.42	0.277	33.01	-8.59
	π/2 BPSK	2660.0	H	133	47	9.85	1 / 81	14.44	24.29	0.268	33.01	-8.72
	QPSK	2526.0	H	143	40	9.43	1 / 121	13.50	22.93	0.196	33.01	-10.08
	QPSK	2593.0	H	102	50	9.49	1 / 40	15.25	24.74	0.298	33.01	-8.27
	QPSK	2660.0	H	133	47	9.85	1 / 81	14.21	24.06	0.255	33.01	-8.95
16-QAM	2660.0	H	133	47	9.85	1 / 81	13.83	23.68	0.233	33.01	-9.33	
50 MHz	π/2 BPSK	2521.0	H	143	40	9.45	1 / 33	14.03	23.48	0.223	33.01	-9.53
	π/2 BPSK	2593.0	H	102	50	9.49	1 / 33	15.64	25.13	0.326	33.01	-7.88
	π/2 BPSK	2665.0	H	133	47	9.84	1 / 33	14.68	24.51	0.283	33.01	-8.50
	QPSK	2521.0	H	143	40	9.45	1 / 33	13.34	22.79	0.190	33.01	-10.22
	QPSK	2593.0	H	102	50	9.49	1 / 33	15.18	24.67	0.293	33.01	-8.34
	QPSK	2665.0	H	133	47	9.84	1 / 33	14.06	23.90	0.245	33.01	-9.11
16-QAM	2665.0	H	133	47	9.84	1 / 33	13.47	23.31	0.214	33.01	-9.70	
40 MHz	π/2 BPSK	2516.0	H	143	40	9.48	1 / 53	14.37	23.85	0.243	33.01	-9.16
	π/2 BPSK	2593.0	H	102	50	9.49	1 / 26	15.01	24.50	0.282	33.01	-8.51
	π/2 BPSK	2670.0	H	133	47	9.82	1 / 53	15.27	25.09	0.323	33.01	-7.92
	QPSK	2516.0	H	143	40	9.48	1 / 53	14.18	23.65	0.232	33.01	-9.36
	QPSK	2593.0	H	102	50	9.49	1 / 26	14.94	24.43	0.277	33.01	-8.58
	QPSK	2670.0	H	133	47	9.82	1 / 53	13.35	23.17	0.207	33.01	-9.84
16-QAM	2670.0	H	133	47	9.82	1 / 53	14.05	23.87	0.244	33.01	-9.14	
30 MHz	π/2 BPSK	2511.0	H	143	40	9.50	1 / 19	14.35	23.86	0.243	33.01	-9.15
	π/2 BPSK	2593.0	H	102	50	9.49	1 / 19	15.08	24.57	0.287	33.01	-8.44
	π/2 BPSK	2675.0	H	133	47	9.85	1 / 19	14.75	24.60	0.289	33.01	-8.41
	QPSK	2511.0	H	143	40	9.50	1 / 19	13.51	23.01	0.200	33.01	-10.00
	QPSK	2593.0	H	102	50	9.49	1 / 19	15.22	24.71	0.296	33.01	-8.30
	QPSK	2675.0	H	133	47	9.85	1 / 19	14.47	24.32	0.270	33.01	-8.69
16-QAM	2675.0	H	133	47	9.85	1 / 19	13.99	23.83	0.242	33.01	-9.18	
20 MHz	π/2 BPSK	2506.0	H	143	40	9.50	1 / 13	14.29	23.79	0.239	33.01	-9.22
	π/2 BPSK	2593.0	H	102	50	9.49	1 / 13	14.83	24.32	0.270	33.01	-8.69
	π/2 BPSK	2680.0	H	133	47	9.87	1 / 13	14.03	23.90	0.246	33.01	-9.11
	QPSK	2506.0	H	143	40	9.50	1 / 13	13.95	23.45	0.222	33.01	-9.56
	QPSK	2593.0	H	102	50	9.49	1 / 13	14.94	24.43	0.277	33.01	-8.58
	QPSK	2680.0	H	133	47	9.87	1 / 13	13.64	23.51	0.224	33.01	-9.50
16-QAM	2593.0	H	102	50	9.49	1 / 13	13.71	23.20	0.209	33.01	-9.81	
100 MHz	QPSK (CP-OFDM)	2640.0	H	102	-47	9.89	1 / 136	13.37	23.26	0.212	33.01	-9.75
	QPSK (Opposite Pol.)	2640.0	V	130	328	9.50	1 / 136	13.65	23.15	0.207	33.01	-9.86
	QPSK (WCP)	2640.0	H	109	40	9.89	1 / 204	14.28	24.17	0.261	33.01	-8.84

Table 7-9. EIRP Data (NR Band n41 - Ant J)

FCC ID: A3LSMS908U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2550.0	H	109	234	9.37	1 / 68	7.58	16.95	0.050	33.01	-16.06
	$\pi/2$ BPSK	2593.0	H	115	237	9.49	1 / 68	4.35	13.84	0.024	33.01	-19.17
	$\pi/2$ BPSK	2640.0	H	123	233	9.89	1 / 204	2.14	12.03	0.016	33.01	-20.98
	QPSK	2550.0	H	109	234	9.37	1 / 68	7.62	16.99	0.050	33.01	-16.02
	QPSK	2593.0	H	115	237	9.49	1 / 68	4.44	13.93	0.025	33.01	-19.08
	QPSK	2640.0	H	123	233	9.89	1 / 204	2.13	12.02	0.016	33.01	-20.99
	16-QAM	2550.0	H	109	234	9.37	1 / 68	6.59	15.96	0.039	33.01	-17.05
100 MHz	QPSK (CP-OFDM)	2550.0	H	109	234	9.37	1 / 136	5.38	14.75	0.030	33.01	-18.26
	QPSK (Opposite Pol.)	2550.0	V	130	167	9.35	1 / 68	4.46	13.81	0.024	33.01	-19.20



Table 7-10. EIRP Data (NR Band n41 - SRS1 - Ant E)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2550.0	H	107	136	9.37	1 / 136	12.14	21.51	0.142	33.01	-11.50
	$\pi/2$ BPSK	2593.0	H	100	148	9.49	1 / 68	10.90	20.39	0.109	33.01	-12.62
	$\pi/2$ BPSK	2640.0	H	101	137	9.89	1 / 204	11.66	21.55	0.143	33.01	-11.46
	QPSK	2550.0	H	107	136	9.37	1 / 136	11.81	21.18	0.131	33.01	-11.83
	QPSK	2593.0	H	100	148	9.49	1 / 68	10.73	20.22	0.105	33.01	-12.79
	QPSK	2640.0	H	101	137	9.89	1 / 204	11.38	21.27	0.134	33.01	-11.74
	16-QAM	2550.0	H	107	136	9.37	1 / 136	11.67	21.04	0.127	33.01	-11.97
100 MHz	QPSK (CP-OFDM)	2640.0	H	101	137	9.89	1/204	9.06	18.95	0.079	33.01	-14.06
	QPSK (Opposite Pol.)	2640.0	V	100	326	9.50	1/136	5.85	15.35	0.034	33.01	-17.66

Table 7-11. EIRP Data (NR Band n41 – SRS2 - Ant B)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2550.0	V	104	343	9.35	1 / 204	4.15	13.50	0.022	33.01	-19.51
	$\pi/2$ BPSK	2593.0	V	118	341	9.46	1 / 68	0.00	9.46	0.009	33.01	-23.55
	$\pi/2$ BPSK	2640.0	V	104	336	9.50	1 / 68	1.05	10.55	0.011	33.01	-22.46
	QPSK	2550.0	V	104	343	9.35	1 / 204	3.89	13.24	0.021	33.01	-19.77
	QPSK	2593.0	V	118	341	9.46	1 / 68	0.50	9.96	0.010	33.01	-23.05
	QPSK	2640.0	V	104	336	9.50	1 / 68	0.92	10.42	0.011	33.01	-22.59
	16-QAM	2550.0	V	104	343	9.35	1 / 204	2.07	11.42	0.014	33.01	-21.59
100 MHz	QPSK (CP-OFDM)	2550.0	V	104	343	9.35	1 / 204	2.46	11.81	0.015	33.01	-21.20
	QPSK (Opposite Pol.)	2550.0	H	100	180	9.37	1 / 136	1.98	11.35	0.014	33.01	-21.66

Table 7-12. EIRP Data (NR Band n41 – SRS3 - Ant D)

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7.9 Radiated Spurious Emissions Measurements

Test Overview



Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 - Section 5.8

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

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

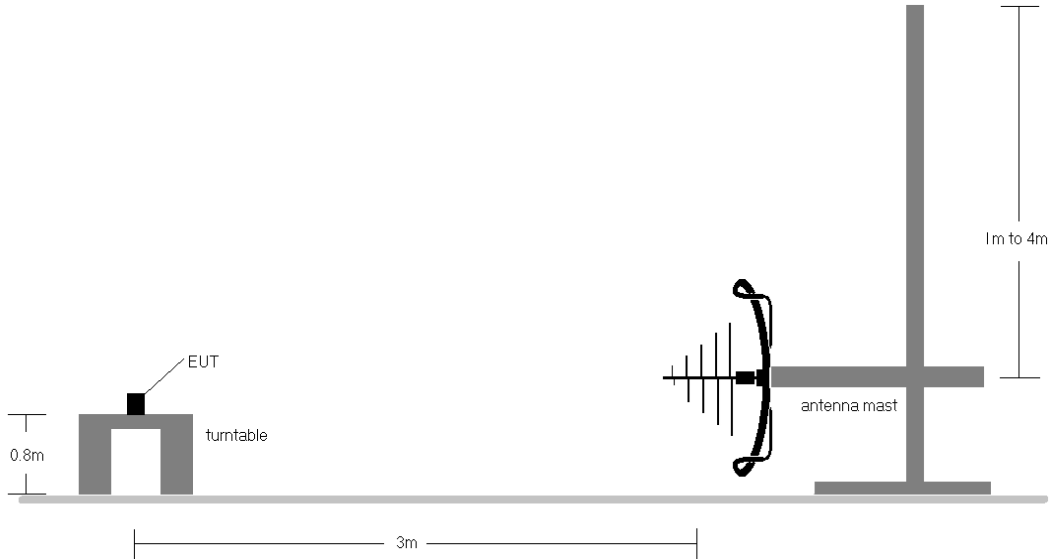


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

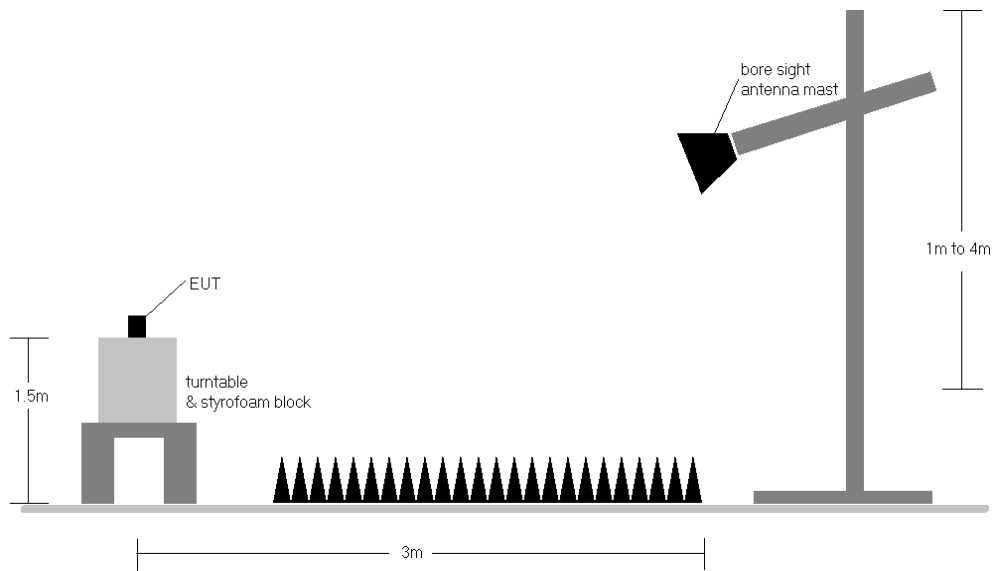




Figure 7-8. Test Instrument & Measurement Setup >1 GHz

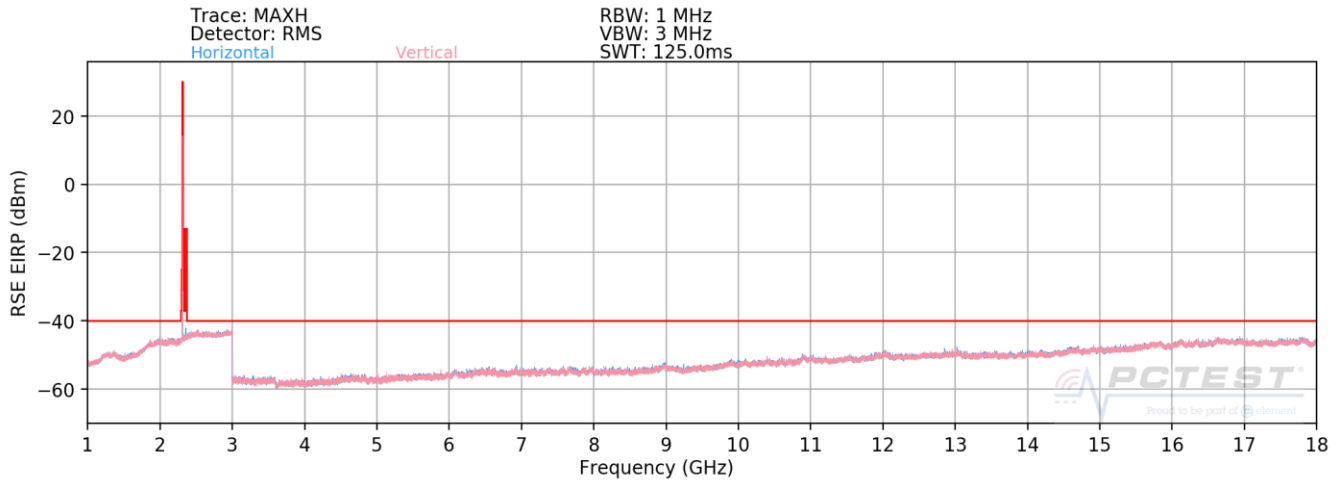
FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 191 of 231

Test Notes

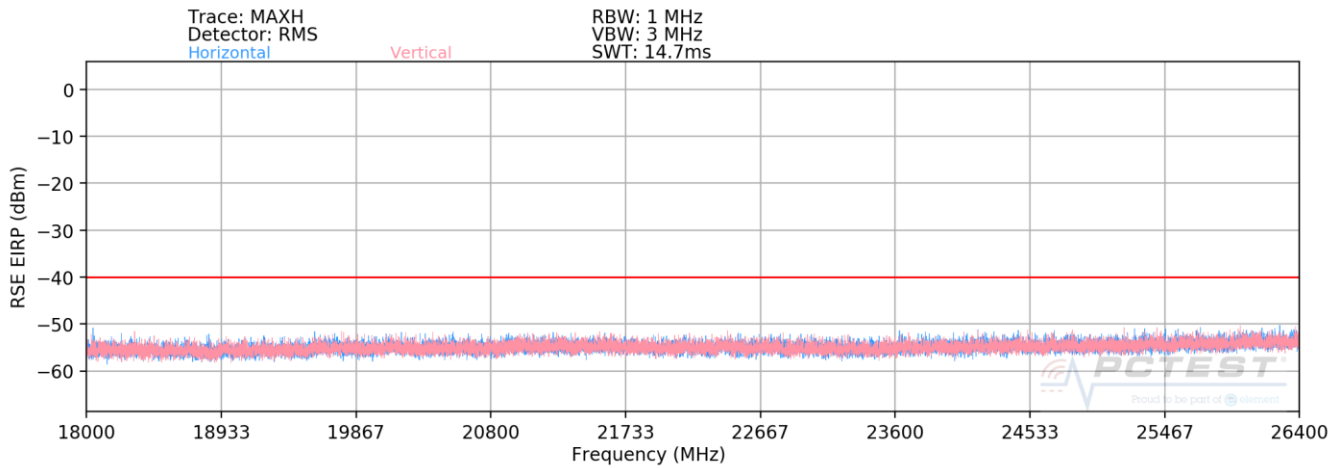
- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 8) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 9) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emission caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.
- 10) Spurious emissions measurements are included in this section to address compliance of the NR FR1 ULCA capability. The EUT was set to transmit at the widest bandwidth and on the middle channel of each band.

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LTE Band 30



Plot 7-311. Radiated Spurious Plot (LTE Band 30)



Plot 7-312. Radiated Spurious Plot (LTE Band 30)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.00	H	229	25	-74.29	5.64	38.35	-56.91	-40.00	-16.91
6930.00	H	248	356	-74.03	8.21	41.18	-54.07	-40.00	-14.07
9240.00	H	169	357	-74.46	9.33	41.87	-53.39	-40.00	-13.39
11550.00	H	-	-	-80.97	13.56	39.59	-55.67	-40.00	-15.67
13860.00	H	-	-	-81.12	14.92	40.80	-54.45	-40.00	-14.45
16170.00	H	-	-	-81.74	17.98	43.24	-52.01	-40.00	-12.01



Table 7-13. Radiated Spurious Data (LTE Band 30 – Mid Channel)

FCC ID: A3LSMS908U	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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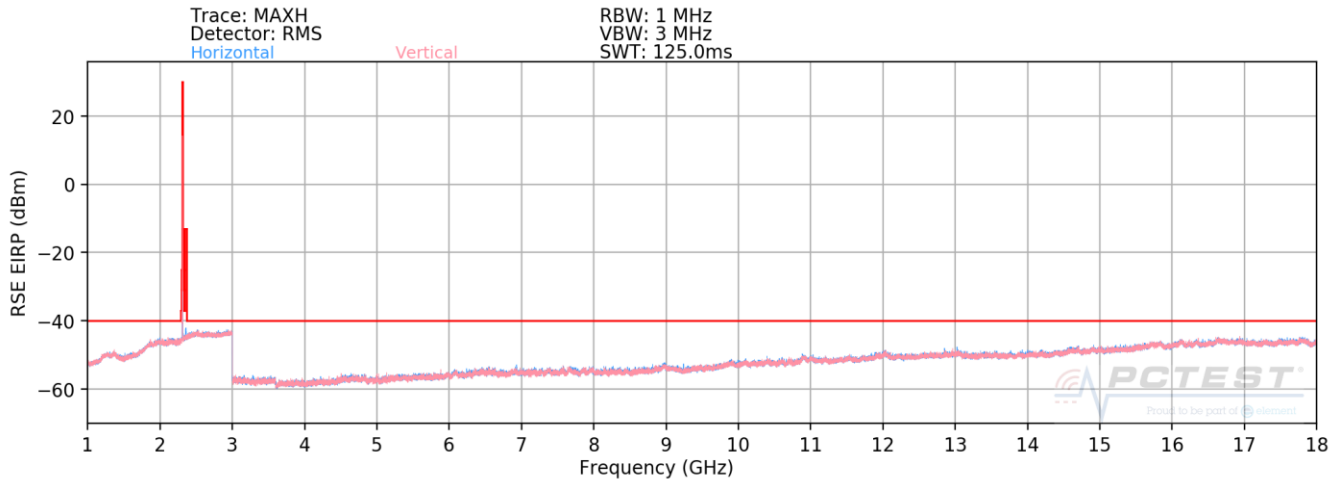
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.00	H	150	217	-75.72	5.64	36.92	-58.34	-40.00	-18.34
6930.00	H	212	209	-76.98	8.21	38.23	-57.02	-40.00	-17.02
9240.00	H	117	164	-75.94	9.33	40.39	-54.87	-40.00	-14.87
11550.00	H	-	-	-80.96	13.56	39.60	-55.66	-40.00	-15.66
13860.00	H	142	242	-77.96	14.92	43.96	-51.29	-40.00	-11.29
16170.00	H	-	-	-81.66	17.98	43.32	-51.93	-40.00	-11.93

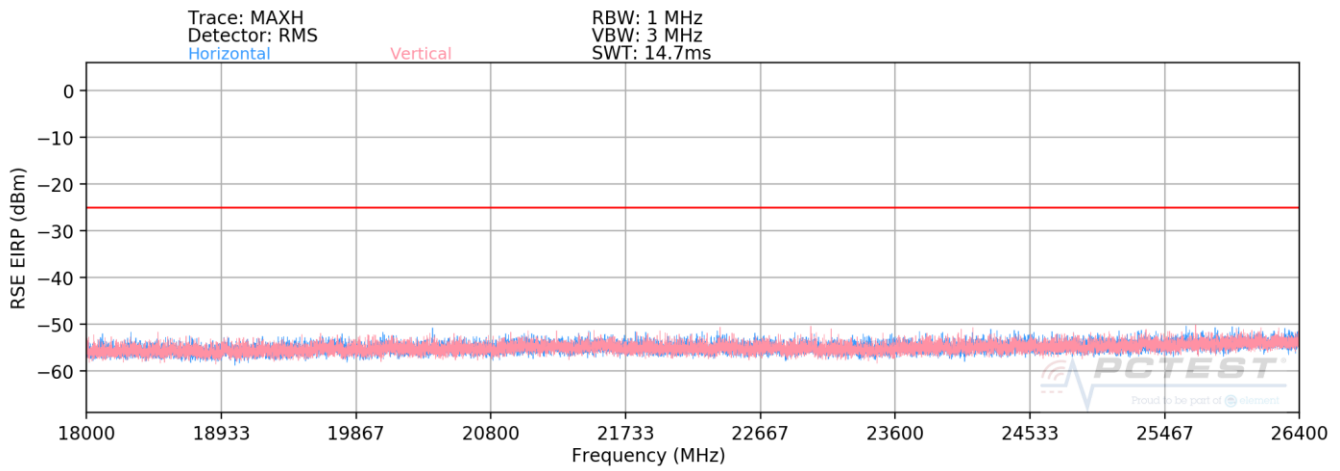
Table 7-14. Radiated Spurious Data with WCP (LTE Band 30)

FCC ID: A3LSMS908U	 PCTEST <small>Proud to be part of element</small>	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 194 of 231

LTE Band 7



Plot 7-313. Radiated Spurious Plot (LTE Band 7)



Plot 7-314. Radiated Spurious Plot (LTE Band 7)

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.00	H	121	22	-68.44	6.03	44.59	-50.67	-25.00	-25.67
7530.00	H	-	-	-79.98	8.68	35.70	-59.56	-25.00	-34.56
10040.00	H	155	51	-72.65	10.90	45.25	-50.00	-25.00	-25.00
12550.00	H	219	297	-80.32	14.48	41.16	-54.10	-25.00	-29.10
15060.00	H	135	26	-79.03	15.70	43.67	-51.59	-25.00	-26.59
17570.00	H	-	-	-80.48	17.64	44.16	-51.10	-25.00	-26.10

Table 7-15. Radiated Spurious Data (LTE Band 7 – Low Channel)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset		Page 195 of 231

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.00	H	116	340	-69.49	5.91	43.42	-51.84	-25.00	-26.84
7605.00	H	392	338	-77.05	8.45	38.40	-56.86	-25.00	-31.86
10140.00	H	247	51	-76.85	11.26	41.41	-53.84	-25.00	-28.84
12675.00	H	161	7	-79.71	14.34	41.63	-53.62	-25.00	-28.62
15210.00	H	243	83	-79.76	16.42	43.66	-51.60	-25.00	-26.60
17745.00	H	-	-	-81.27	18.48	44.21	-51.05	-25.00	-26.05

Table 7-16. Radiated Spurious Data (LTE Band 7 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	H	139	341	-72.91	6.08	40.17	-55.09	-25.00	-30.09
7680.00	H	140	151	-78.28	9.16	37.88	-57.38	-25.00	-32.38
10240.00	H	164	51	-78.28	11.48	40.20	-55.06	-25.00	-30.06
12800.00	H	209	29	-79.04	14.36	42.32	-52.94	-25.00	-27.94
15360.00	H	156	318	-78.51	16.12	44.61	-50.64	-25.00	-25.64
17920.00	H	-	-	-81.31	17.92	43.61	-51.64	-25.00	-26.64

Table 7-17. Radiated Spurious Data (LTE Band 7 – High Channel)

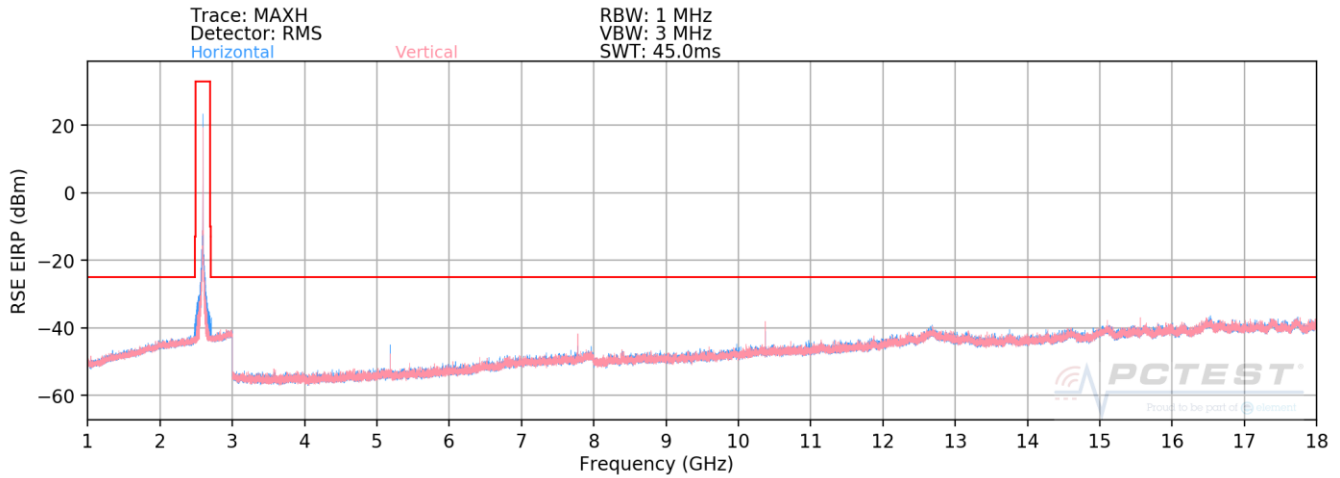
Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.00	H	197	232	-73.12	6.03	39.91	-55.35	-25.00	-30.35
7530.00	H	283	224	-79.54	8.68	36.14	-59.12	-25.00	-34.12
10040.00	H	154	130	-75.16	10.90	42.74	-52.51	-25.00	-27.51
12550.00	H	137	197	-80.77	14.48	40.71	-54.55	-25.00	-29.55
15060.00	H	245	251	-80.97	15.70	41.73	-53.53	-25.00	-28.53
17570.00	H	-	-	-80.34	17.64	44.30	-50.96	-25.00	-25.96

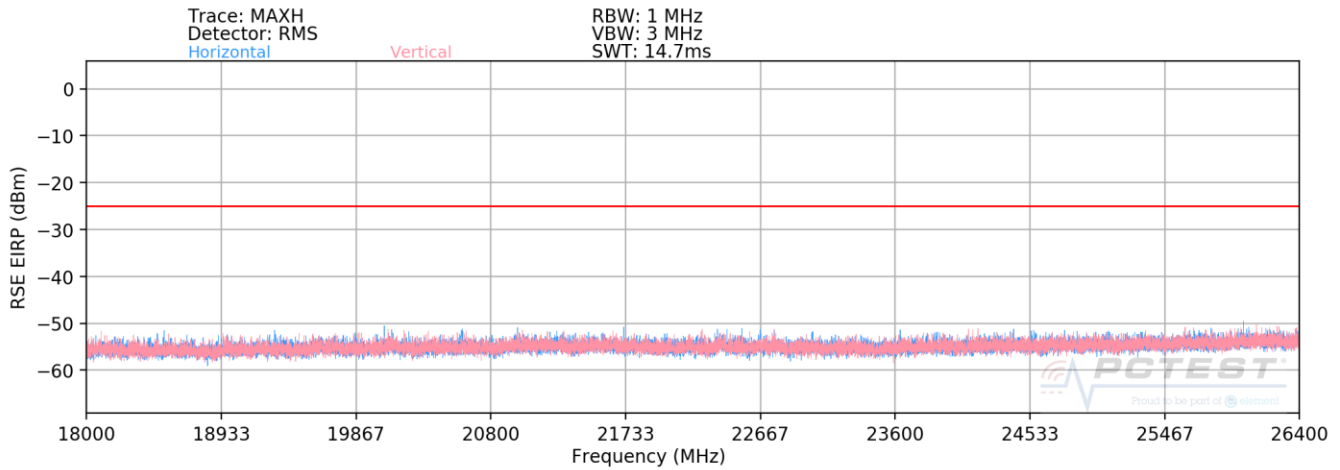
Table 7-18. Radiated Spurious Data with WCP (LTE Band 7)

FCC ID: A3LSMS908U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41(PC2)



Plot 7-315. Radiated Spurious Plot (LTE Band 41(PC2))



Plot 7-316. Radiated Spurious Plot (LTE Band 41(PC2))

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	V	102	154	-63.81	7.36	50.55	-44.71	-25.00	-19.71
7518.00	V	100	13	-64.28	12.66	55.38	-39.88	-25.00	-14.88
10024.00	V	107	105	-62.21	15.24	60.03	-35.23	-25.00	-10.23
12530.00	V	-	-	-73.51	19.96	53.45	-41.81	-25.00	-16.81
15036.00	V	104	82	-70.79	21.96	58.17	-37.09	-25.00	-12.09
17542.00	V	-	-	-74.52	26.05	58.53	-36.73	-25.00	-11.73

Table 7-19. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M210909102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset	Page 197 of 231	

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	V	100	242	-65.30	7.75	49.45	-45.81	-25.00	-20.81
7779.00	V	107	26	-64.81	12.97	55.16	-40.10	-25.00	-15.10
10372.00	V	109	312	-61.19	15.93	61.74	-33.51	-25.00	-8.51
12965.00	V	-	-	-73.62	19.86	53.24	-42.02	-25.00	-17.02
15558.00	V	102	256	-71.95	22.76	57.81	-37.45	-25.00	-12.45

Table 7-20. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	V	118	282	-67.70	8.55	47.85	-47.41	-25.00	-22.41
8040.00	V	102	39	-63.88	12.88	56.00	-39.25	-25.00	-14.25
10720.00	V	104	295	-60.05	16.25	63.20	-32.06	-25.00	-7.06
13400.00	V	-	-	-74.00	20.50	53.50	-41.75	-25.00	-16.75
16080.00	V	100	297	-71.65	23.46	58.81	-36.45	-25.00	-11.45

Table 7-21. Radiated Spurious Data (LTE Band 41(PC2) – High Channel)

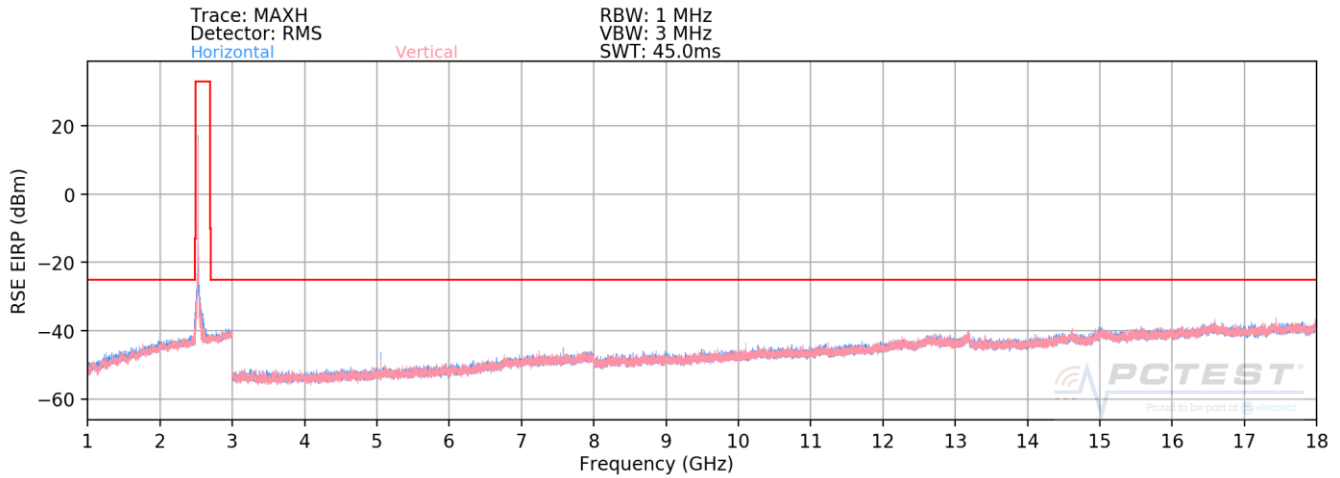
Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	V	114	344	-67.47	8.55	48.08	-47.18	-25.00	-22.18
8040.00	V	115	23	-68.69	12.88	51.19	-44.06	-25.00	-19.06
10720.00	V	120	295	-66.87	16.25	56.38	-38.88	-25.00	-13.88
13400.00	V	-	-	-74.45	20.50	53.05	-42.20	-25.00	-17.20
16080.00	V	133	82	-73.59	23.46	56.87	-38.39	-25.00	-13.39

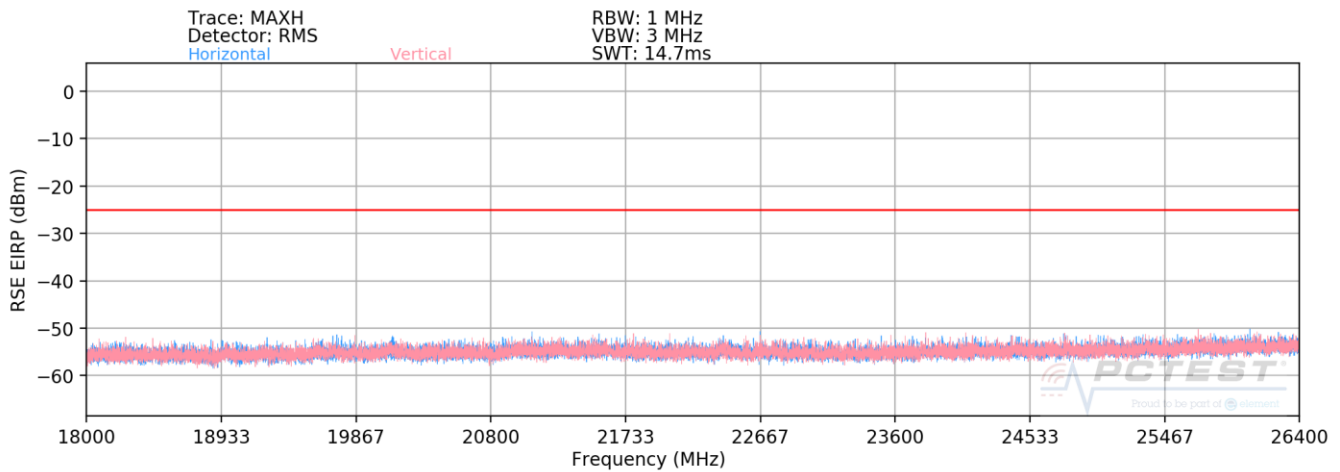
Table 7-22. Radiated Spurious Data with WCP (LTE Band 41(PC2))

FCC ID: A3LSMS908U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41(PC3)/38



Plot 7-317. Radiated Spurious Plot (LTE Band 41(PC3)/38)



Plot 7-318. Radiated Spurious Plot (LTE Band 41(PC3)/38)

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	V	107	179	-74.92	9.11	41.19	-54.06	-25.00	-29.06
7518.00	V	102	209	-79.63	13.82	41.19	-54.07	-25.00	-29.07
10024.00	V	112	342	-80.35	16.14	42.79	-52.47	-25.00	-27.47
12530.00	V	-	-	-83.36	19.25	42.89	-52.37	-25.00	-27.37
15036.00	V	-	-	-81.72	22.45	47.73	-47.53	-25.00	-22.53
17542.00	V	-	-	-81.86	26.06	51.20	-44.06	-25.00	-19.06

Table 7-23. Radiated Spurious Data (LTE Band 41(PC3)/38 – Low Channel)

FCC ID: A3LSMS908U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	V	307	336	-78.37	8.85	37.48	-57.78	-25.00	-32.78
7779.00	V	-	-	-79.73	13.73	41.00	-54.25	-25.00	-29.25
10372.00	V	384	13	-80.69	16.67	42.98	-52.28	-25.00	-27.28
12965.00	V	-	-	-81.69	19.61	44.92	-50.33	-25.00	-25.33
15558.00	V	-	-	-82.30	23.25	47.95	-47.31	-25.00	-22.31

Table 7-24. Radiated Spurious Data (LTE Band 41(PC3)/38 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	V	141	157	-77.82	9.83	39.01	-56.25	-25.00	-31.25
8040.00	V	-	-	-80.48	13.67	40.19	-55.07	-25.00	-30.07
10720.00	V	273	211	-76.53	16.98	47.45	-47.81	-25.00	-22.81
13400.00	V	-	-	-82.39	20.64	45.25	-50.01	-25.00	-25.01
16080.00	V	107	182	-80.05	23.85	50.80	-44.46	-25.00	-19.46

Table 7-25. Radiated Spurious Data (LTE Band 41(PC3)/38 – High Channel)

FCC ID: A3LSMS908U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109090102-05-R1.A3L	Test Dates: 9/14 - 11/12/2021	EUT Type: Portable Handset	Page 200 of 231	