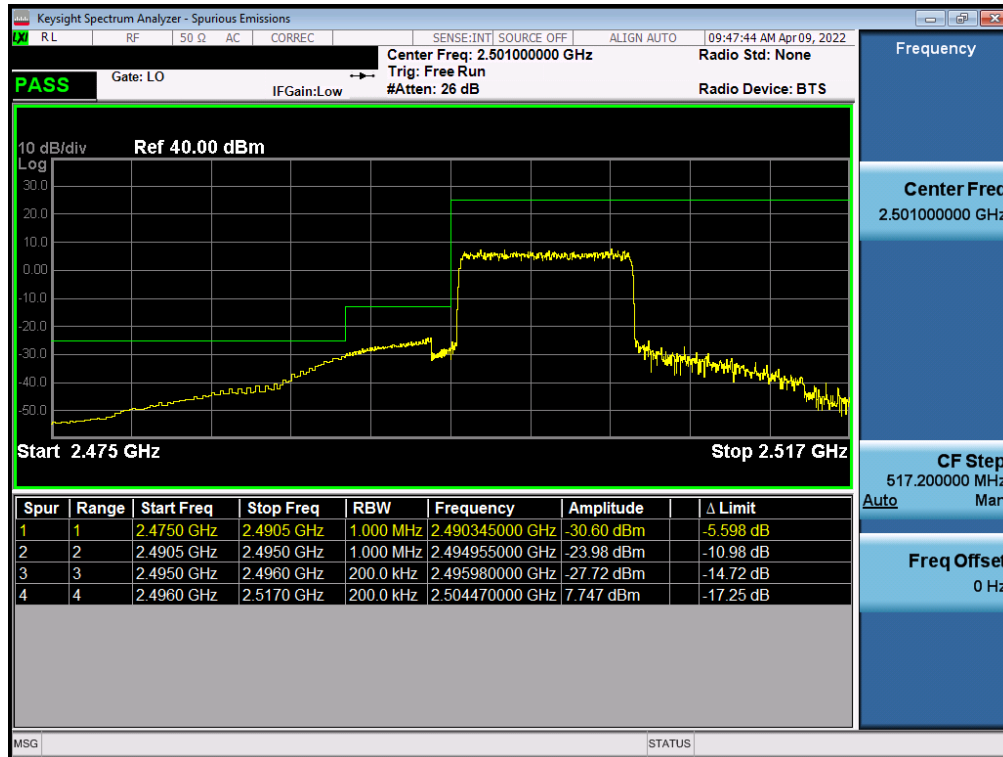


Plot 7-224. Lower ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB)



Plot 7-225. Upper ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB)

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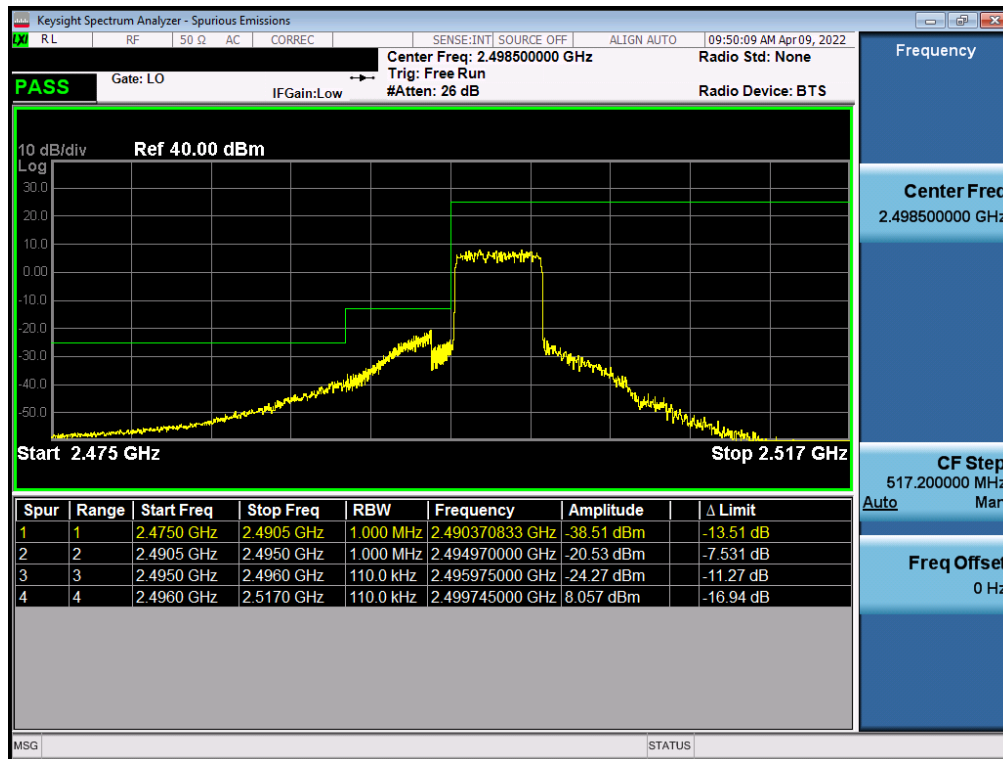


Plot 7-226. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB)

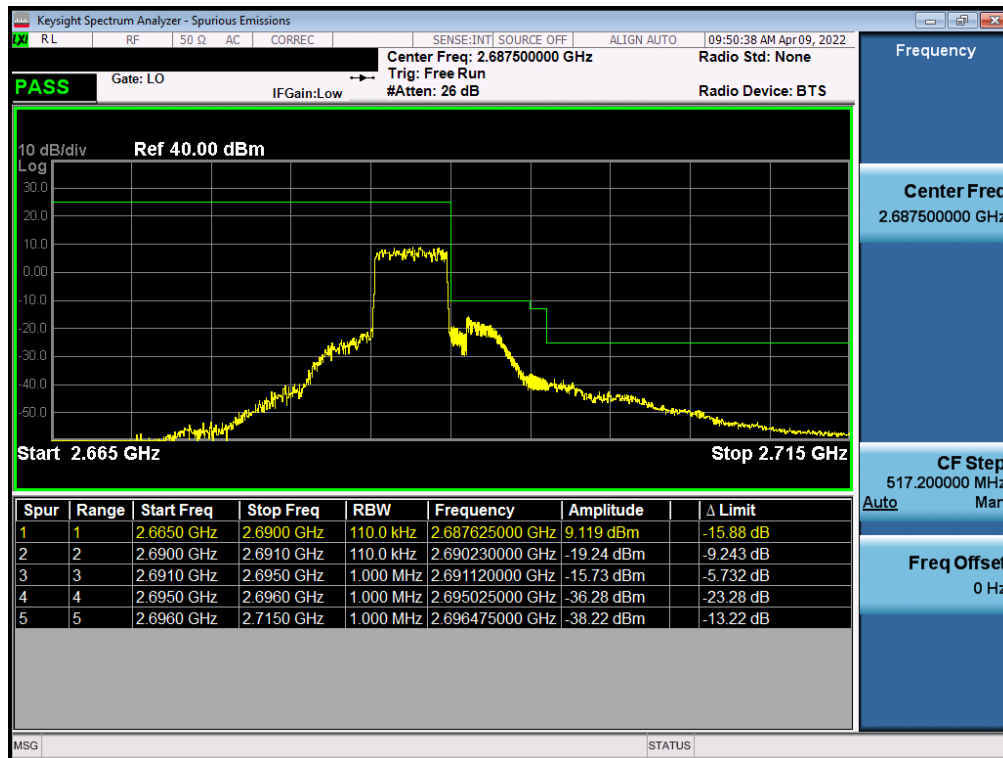


Plot 7-227. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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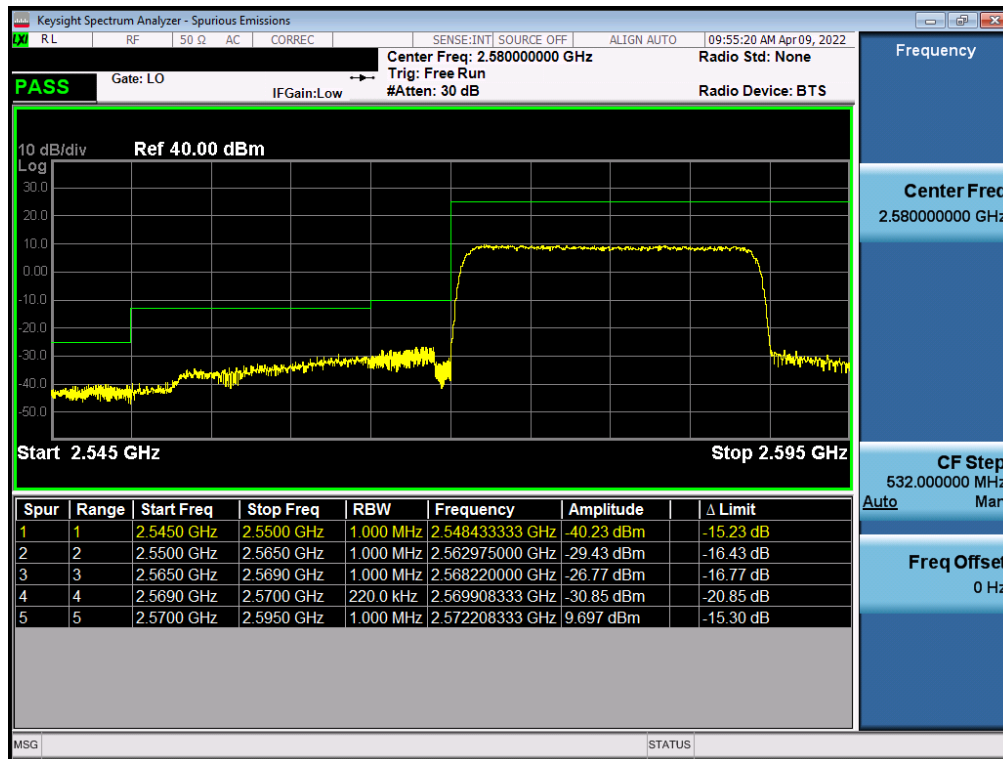
Plot 7-228. Lower ACP Plot (LTE Band 41(PC3) - 5MHz QPSK – Full RB)



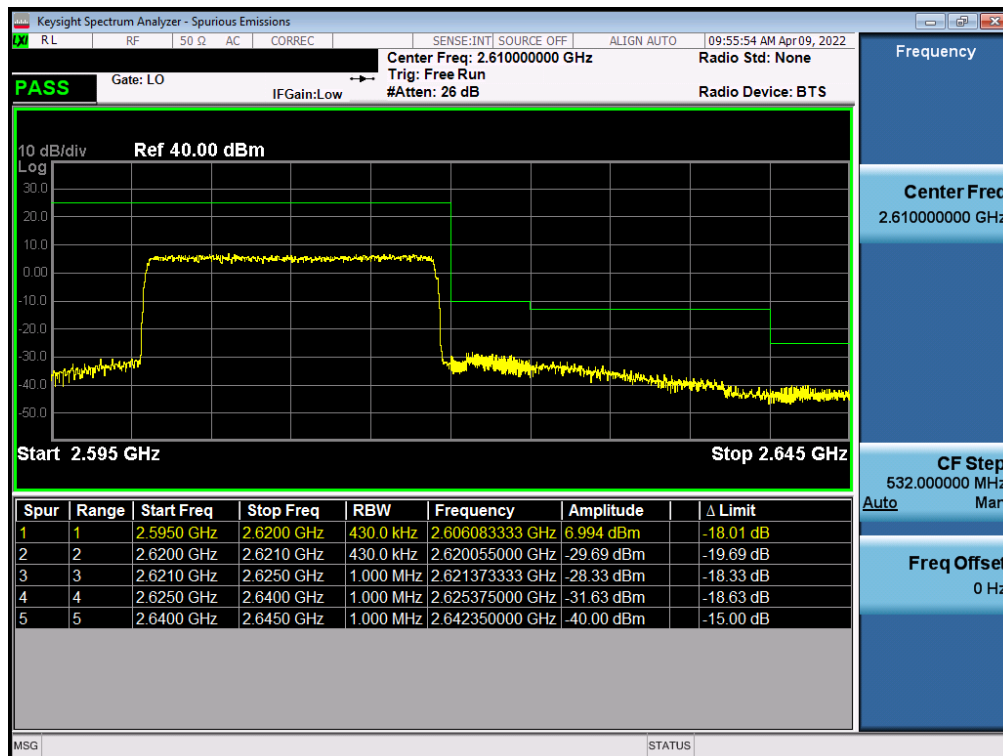
Plot 7-229. Upper ACP Plot (LTE Band 41(PC3) - 5MHz QPSK – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## LTE Band 38



Plot 7-230. Lower Band Edge Plot (LTE Band 38 - 20MHz QPSK – Full RB)

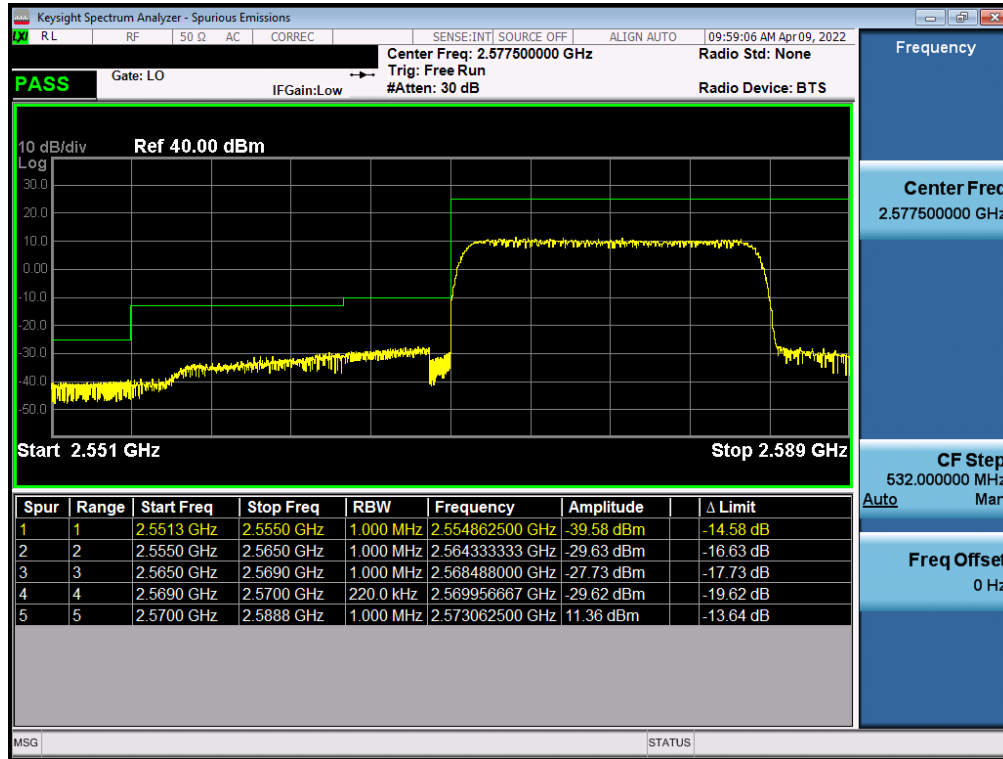


Plot 7-231. Upper Band Edge Plot (LTE Band 38 - 20MHz QPSK – Full RB)

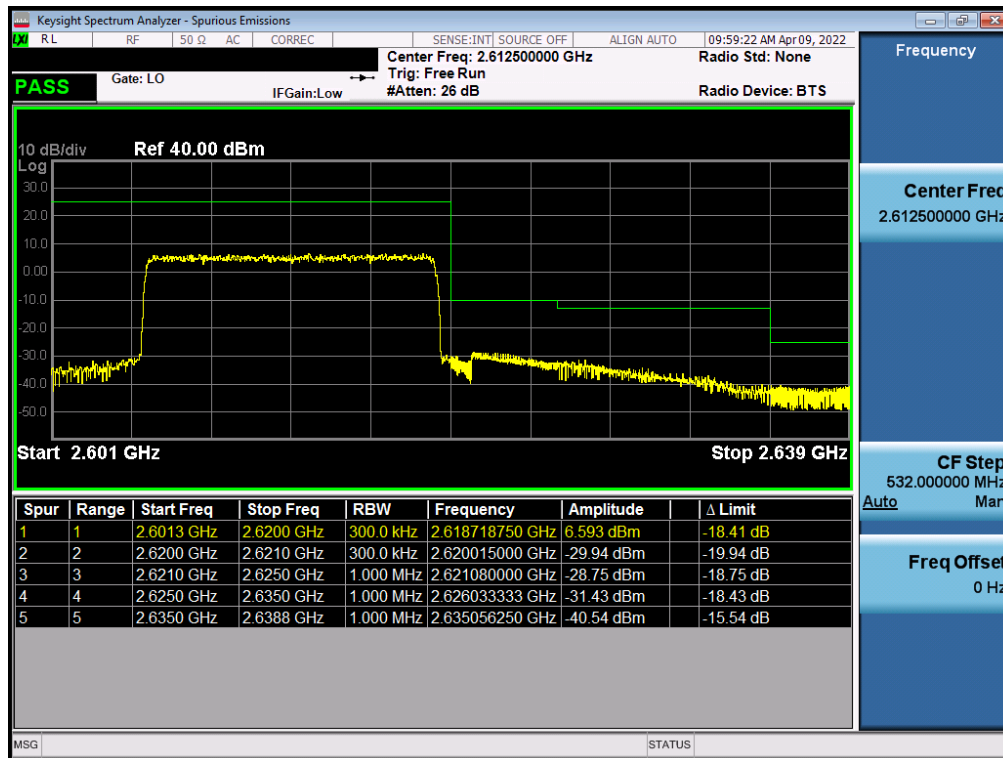
FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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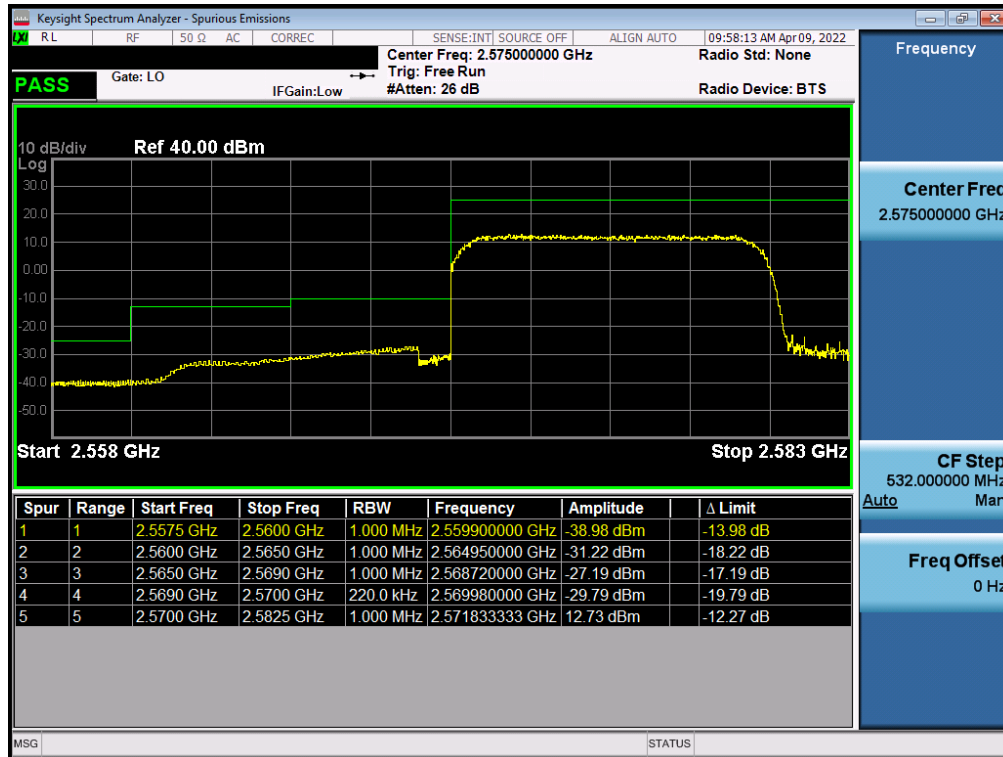


Plot 7-232. Lower Band Edge Plot (LTE Band 38 - 15MHz QPSK – Full RB)

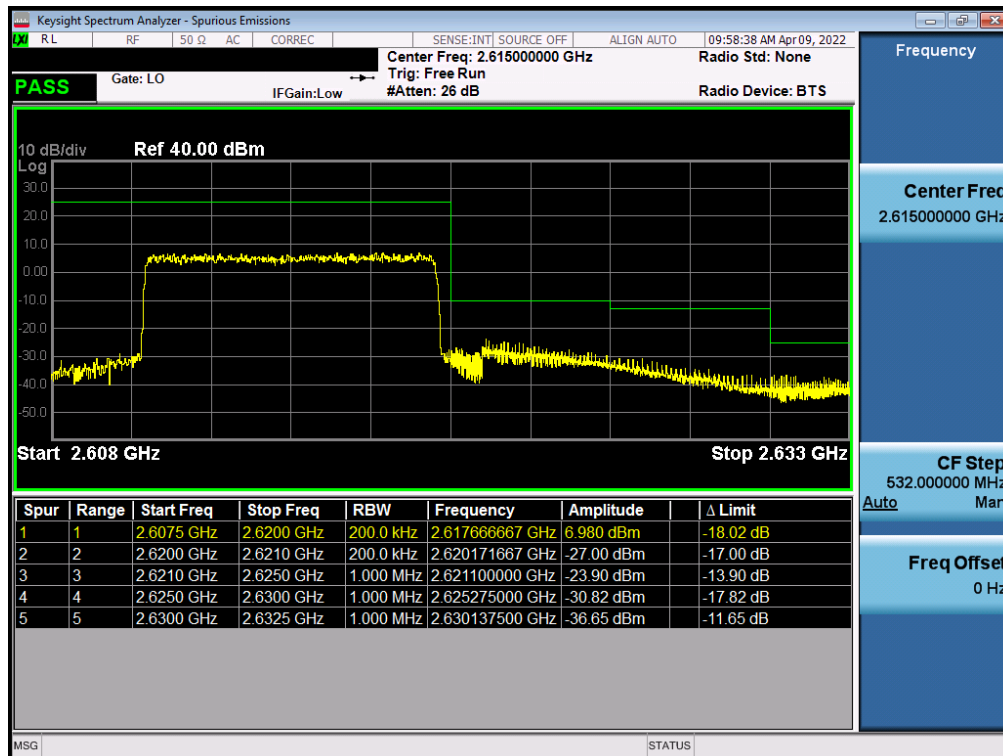


Plot 7-233. Upper Band Edge Plot (LTE Band 38 - 15MHz QPSK – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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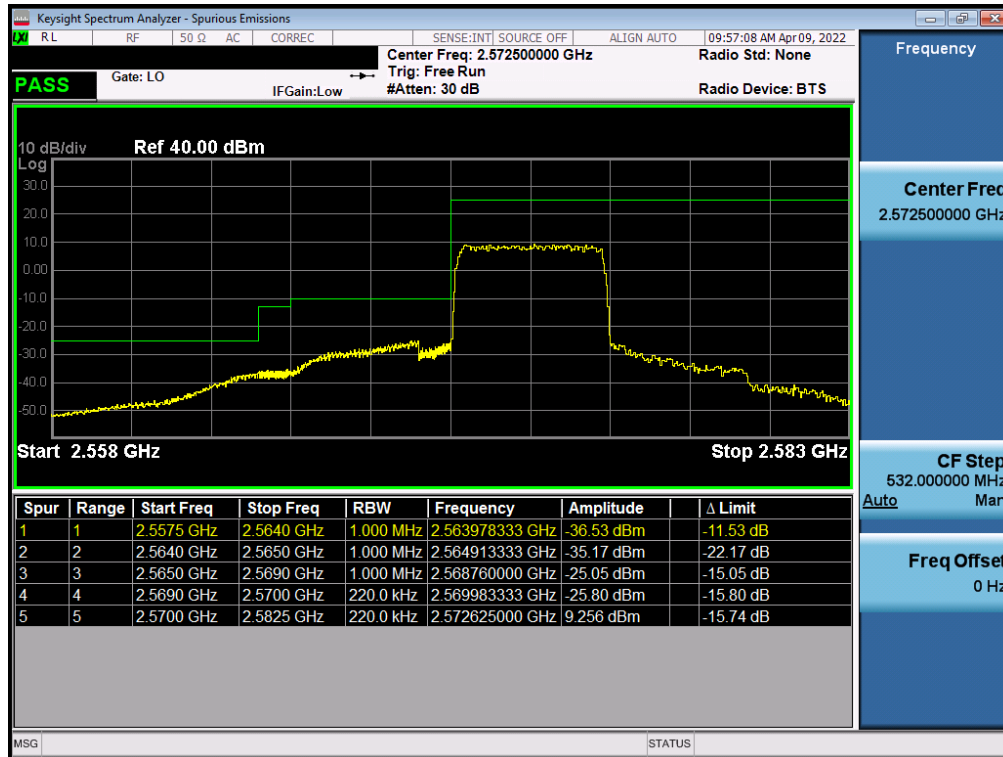
Plot 7-234. Lower Band Edge Plot (LTE Band 38 - 10MHz QPSK – Full RB)



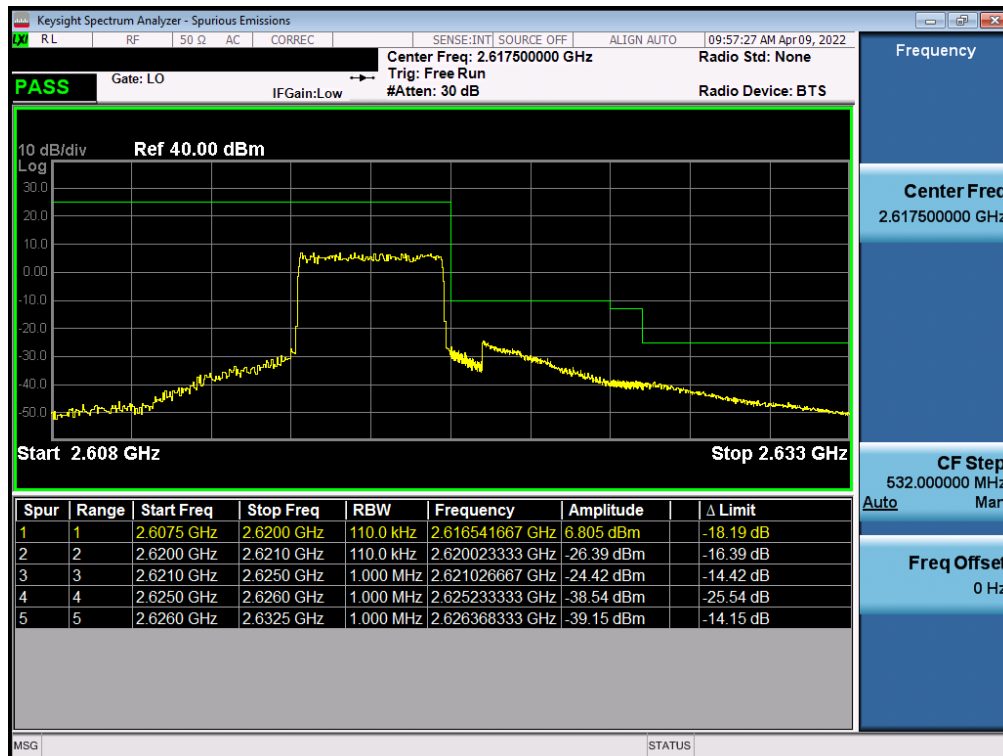
Plot 7-235. Upper Band Edge Plot (LTE Band 38 - 10MHz QPSK – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-236. Lower Band Edge Plot (LTE Band 38 - 5MHz QPSK - Full RB)



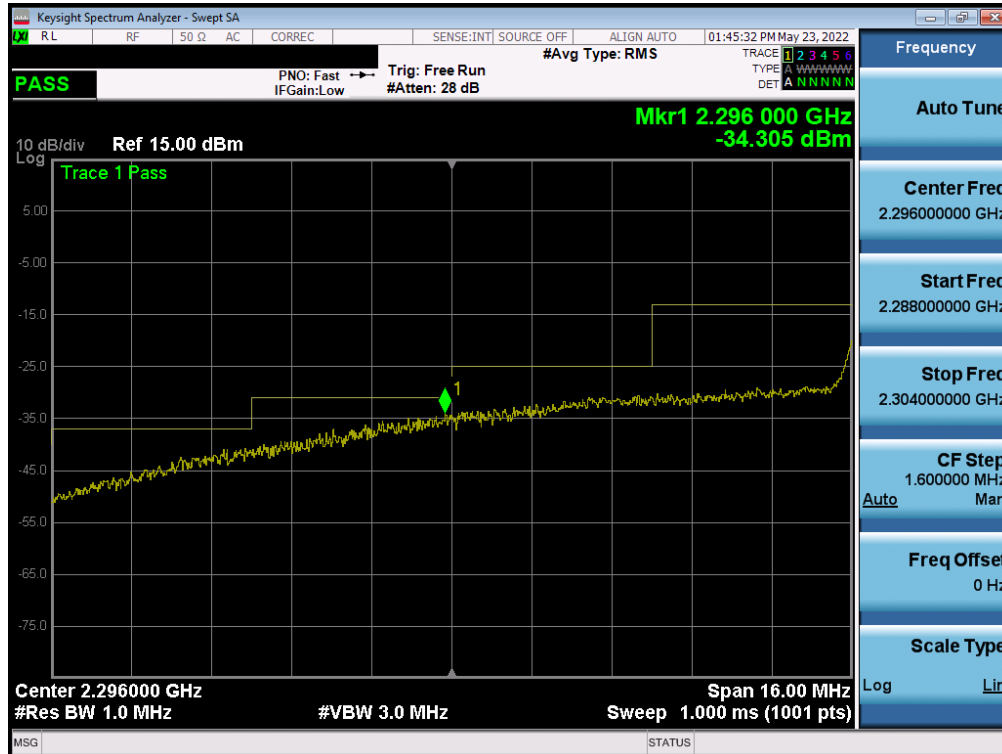
Plot 7-237. Upper Band Edge Plot (LTE Band 38 - 5MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n30 ANT B



Plot 7-238. Lower Band Edge Plot (NR Band n30 - 10MHz - Full RB)

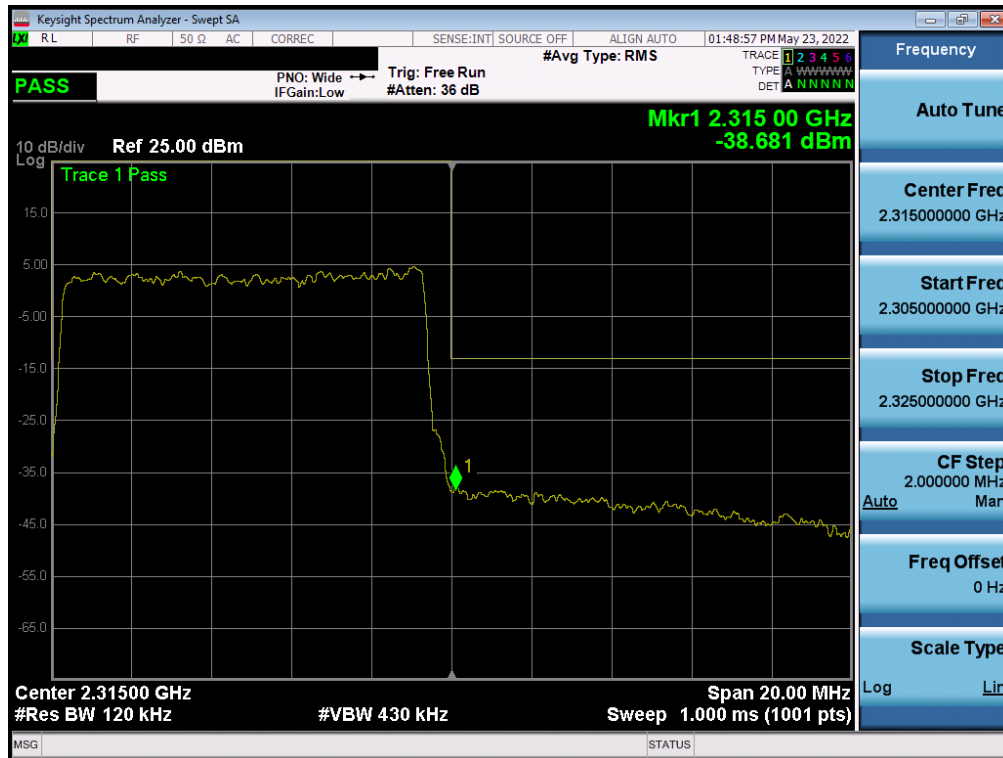


Plot 7-239. Extended Lower Band Edge Plot (NR Band n30 - 10MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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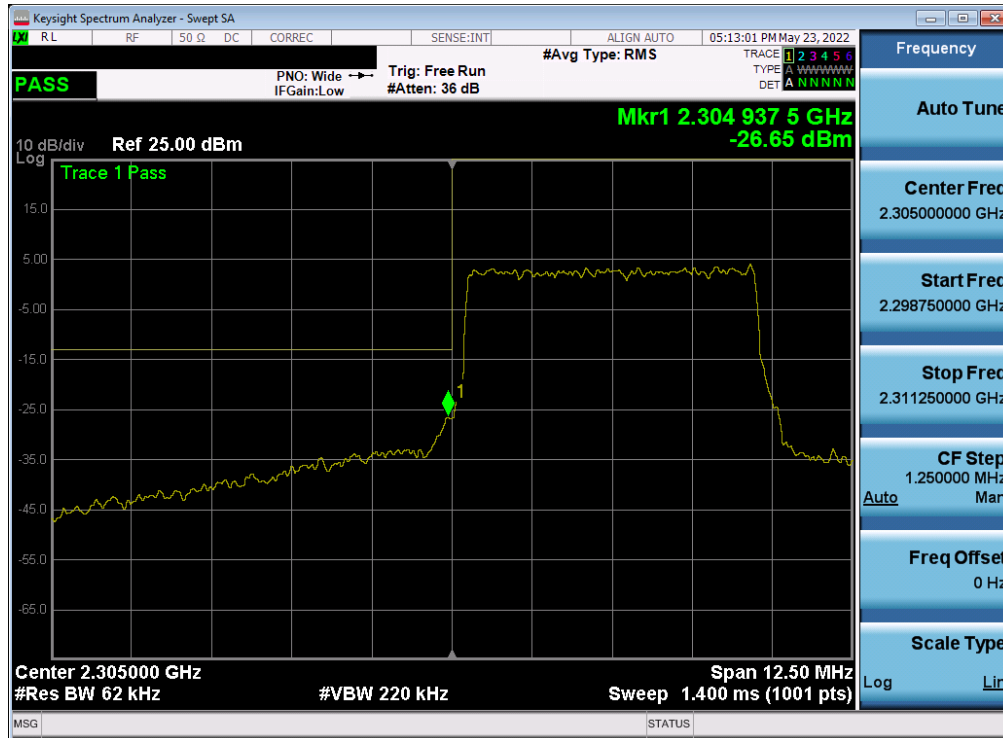


Plot 7-240. Upper Band Edge Plot (NR Band n30 - 10MHz – Full RB)



Plot 7-241. Extended Upper Band Edge Plot (NR Band n30 - 10MHz – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-242. Lower Band Edge Plot (NR Band n30 - 5MHz - Full RB)



Plot 7-243. Extended Lower Band Edge Plot (NR Band n30 - 5MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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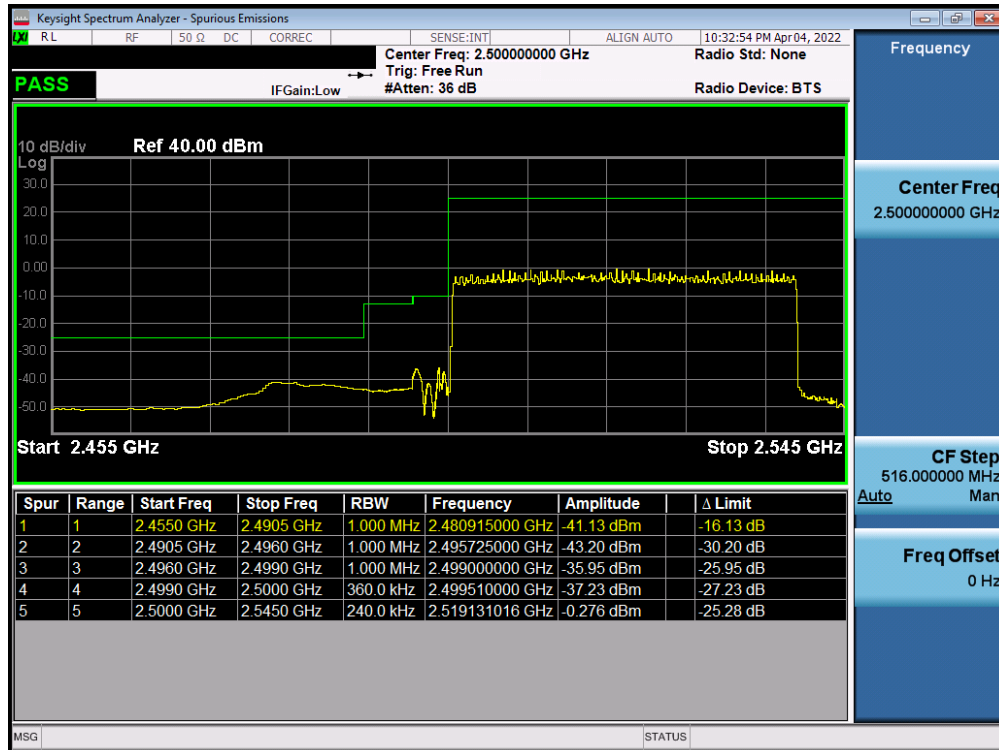
Plot 7-244. Upper Band Edge Plot (NR Band n30 - 5MHz - Full RB)



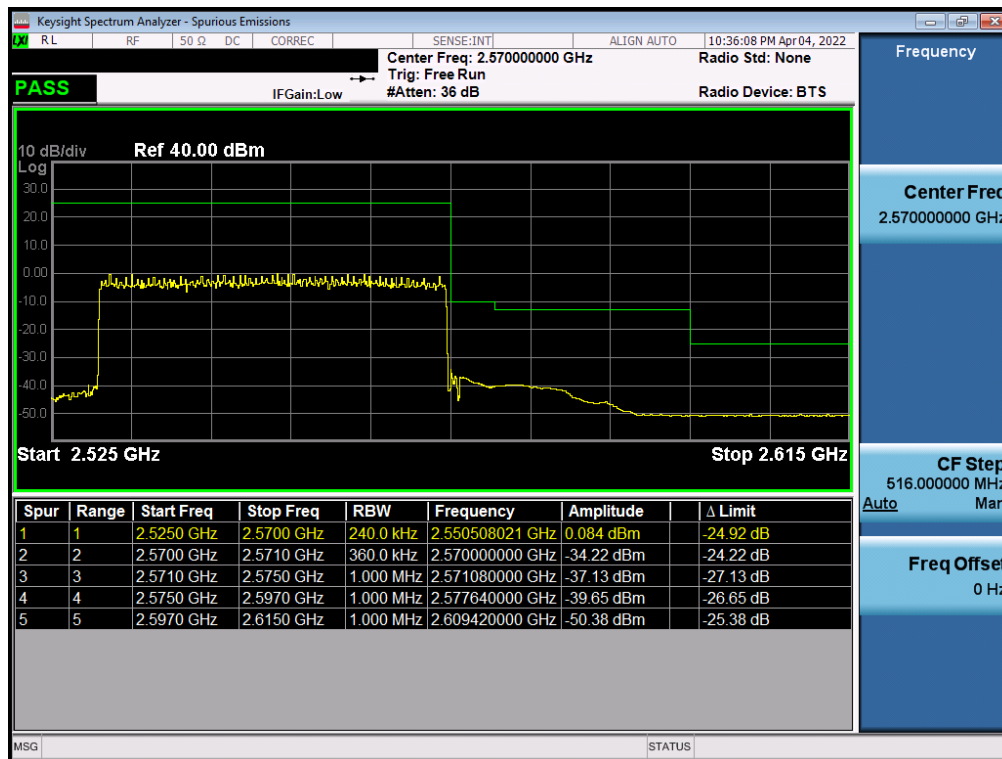
Plot 7-245. Extended Upper Band Edge Plot (NR Band n30 - 5MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n7 – ANT B

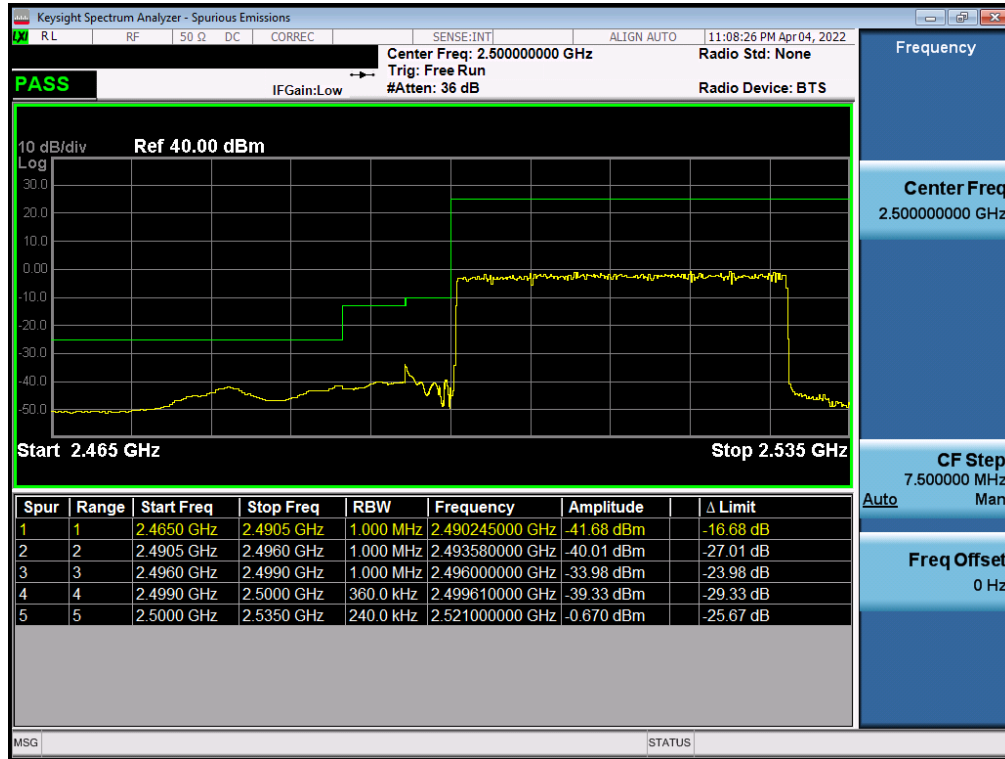


Plot 7-246. Lower Band Edge Plot (NR Band n7 - 40MHz – Full RB)

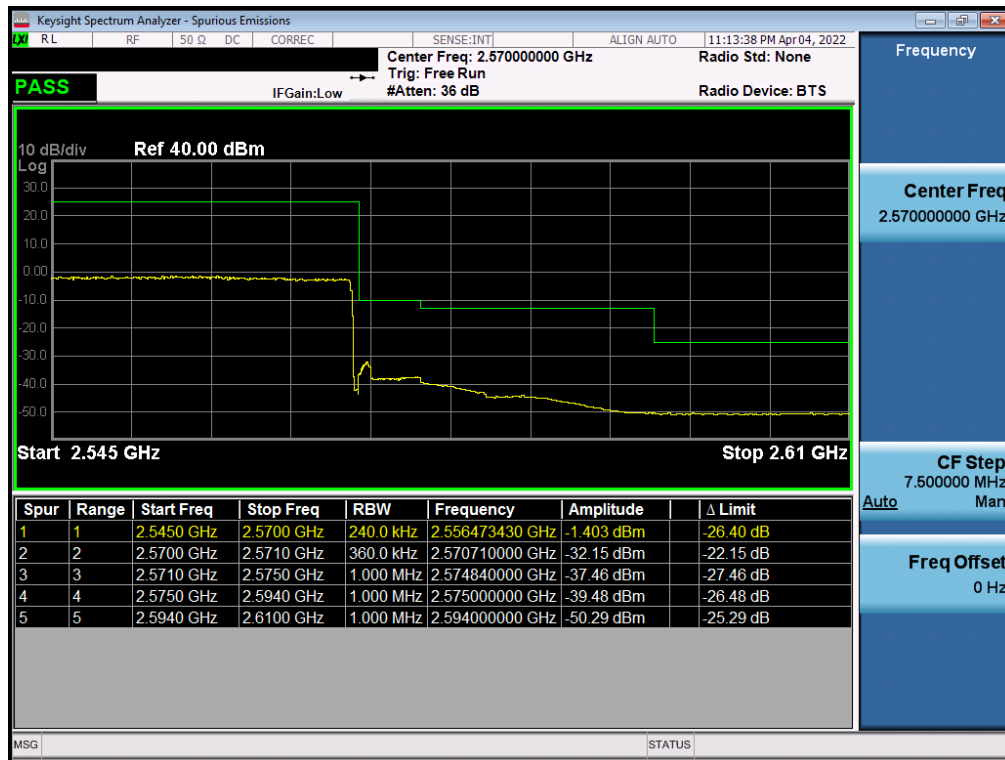


Plot 7-247. Upper Band Edge Plot (NR Band n7 - 40MHz – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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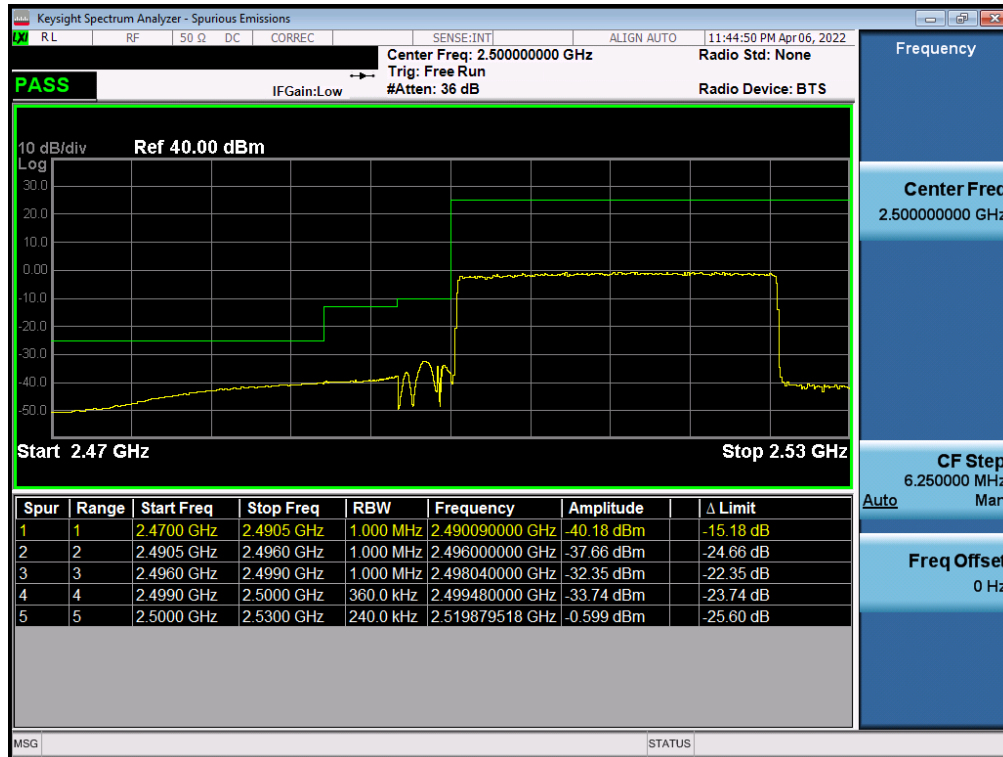


Plot 7-248. Lower Band Edge Plot (NR Band n7 - 30MHz - Full RB)

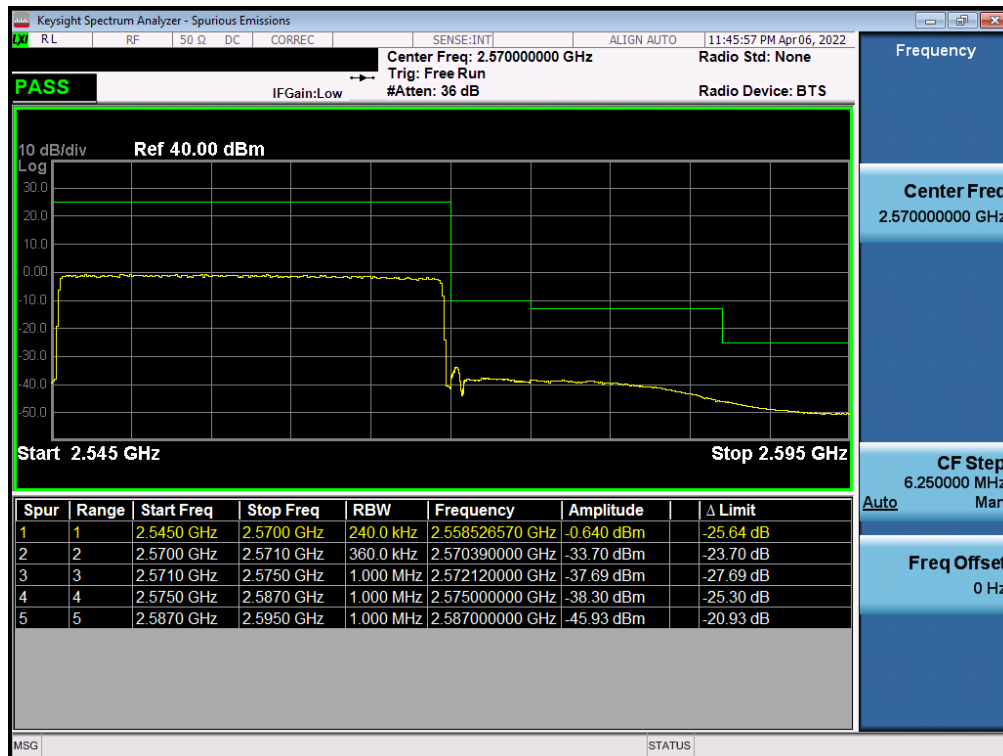


Plot 7-249. Upper Band Edge Plot (NR Band n7 - 30MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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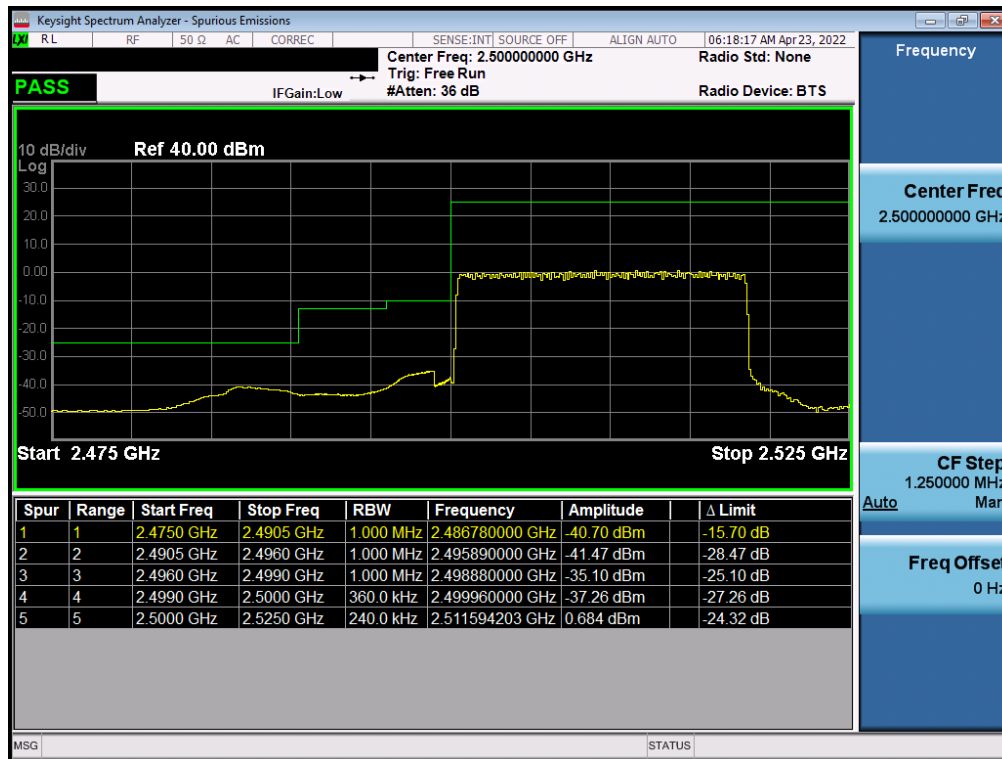
Plot 7-250. Lower Band Edge Plot (NR Band n7 - 25MHz - Full RB)



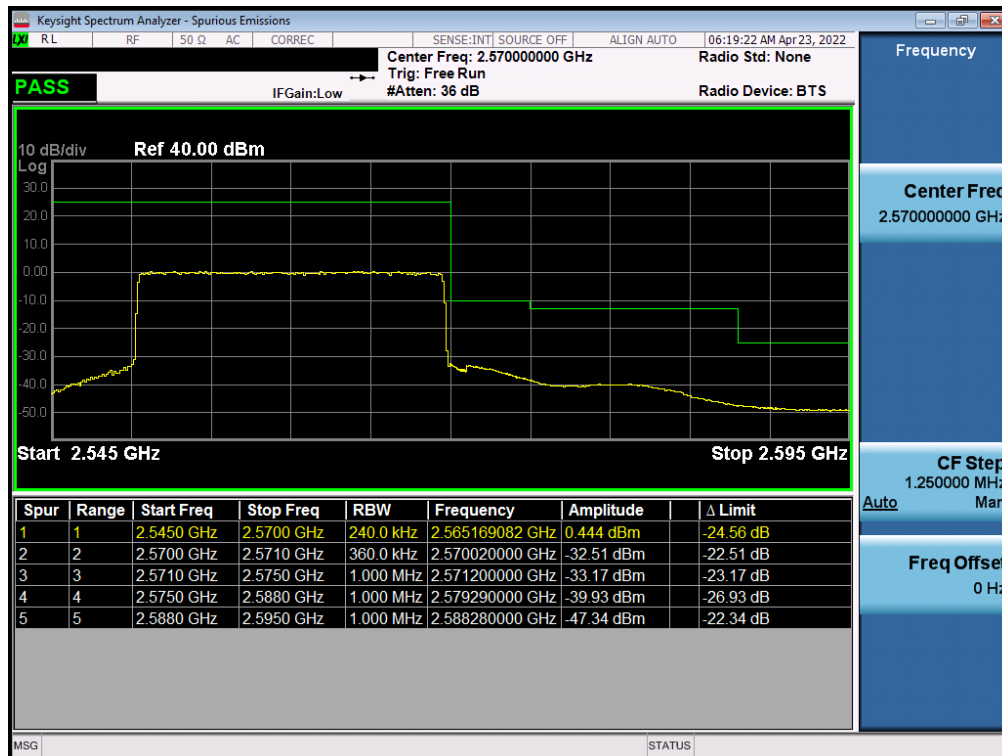
Plot 7-251. Upper Band Edge Plot (NR Band n7 - 25MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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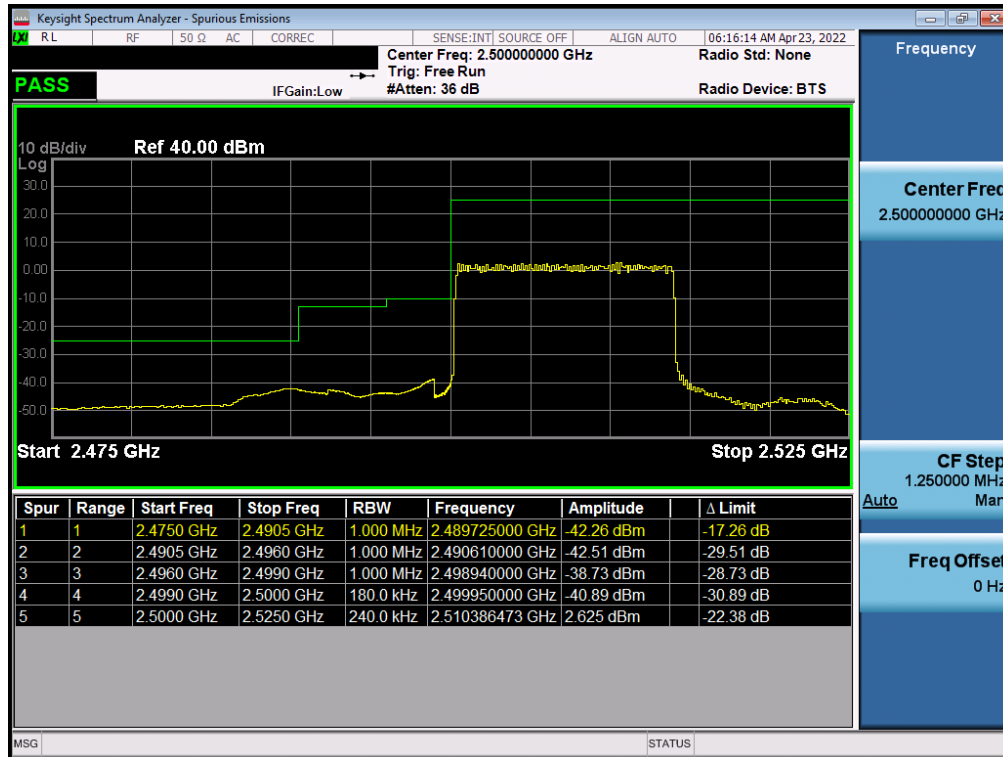


Plot 7-252. Lower Band Edge Plot (NR Band n7 - 20MHz – Full RB)

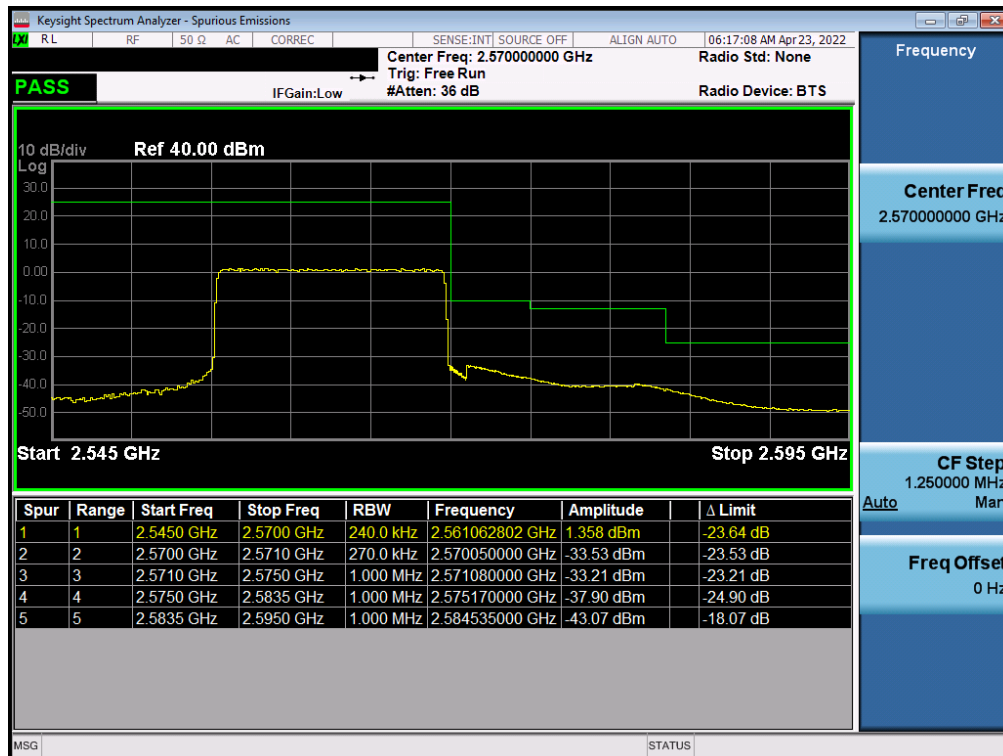


Plot 7-253. Upper Band Edge Plot (NR Band n7 - 20MHz – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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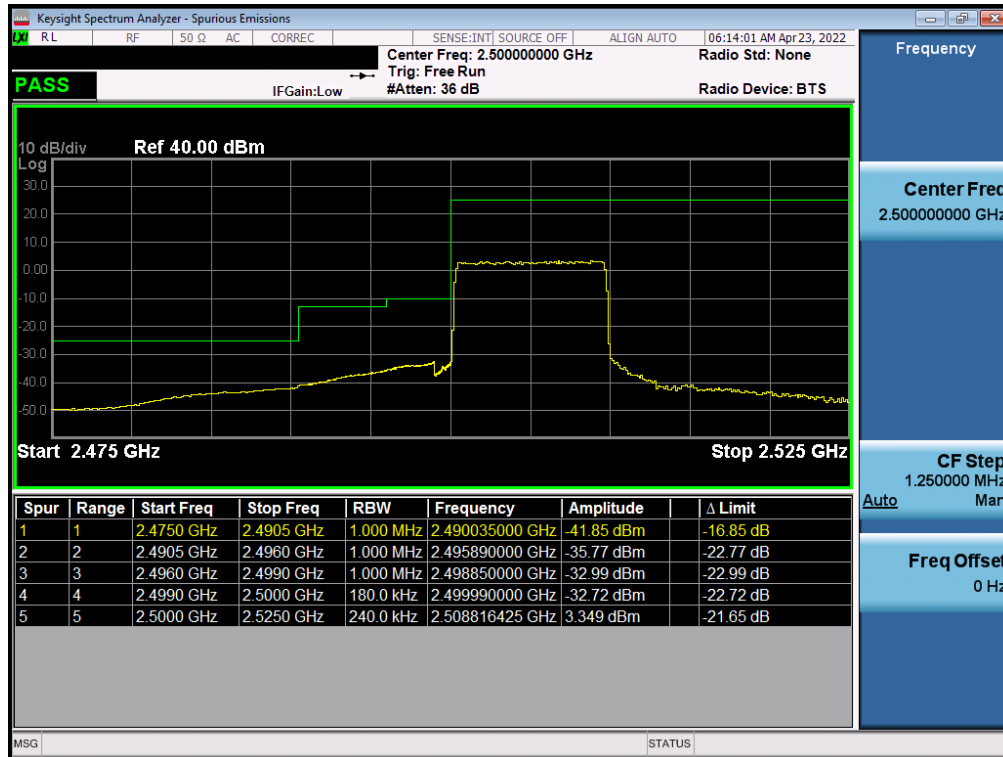


Plot 7-254. Lower Band Edge Plot (NR Band n7 - 15MHz - Full RB)

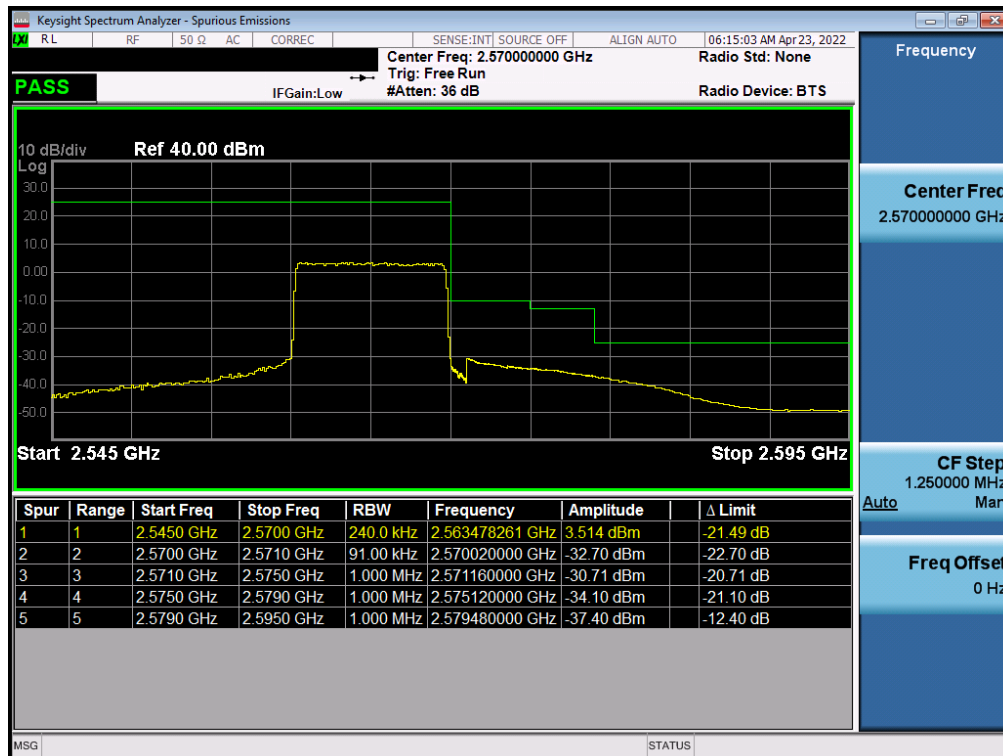


Plot 7-255. Upper Band Edge Plot (NR Band n7 - 15MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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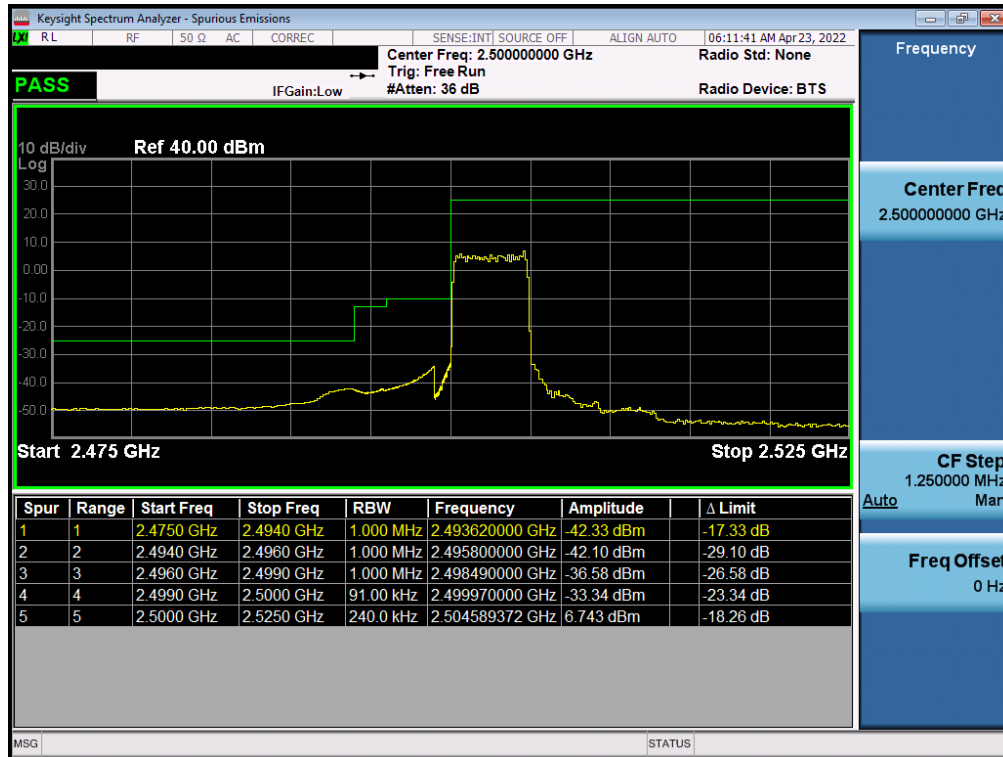


Plot 7-256. Lower Band Edge Plot (NR Band n7 - 10MHz - Full RB)

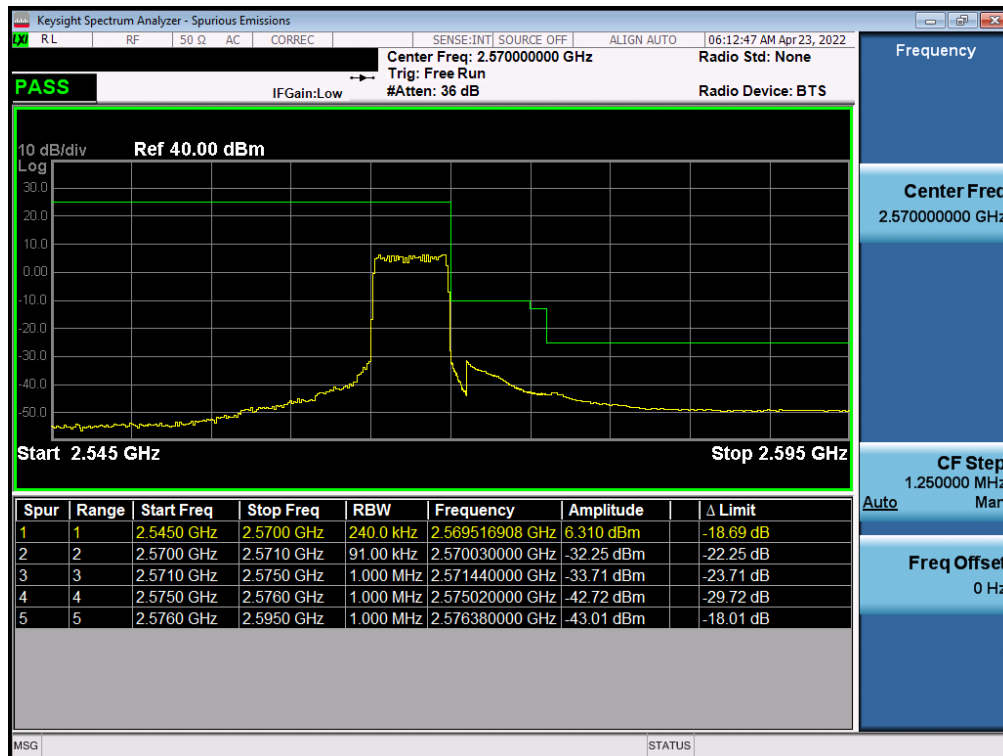


Plot 7-257. Upper Band Edge Plot (NR Band n7 - 10MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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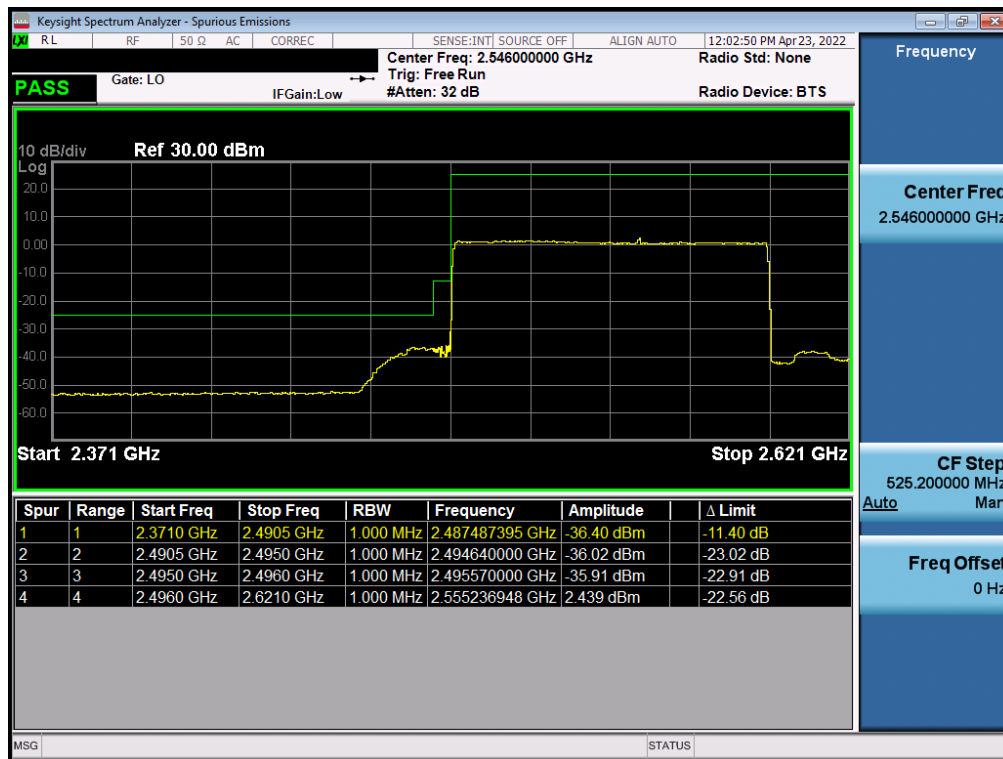
Plot 7-258. Lower Band Edge Plot (NR Band n7 - 5MHz - Full RB)



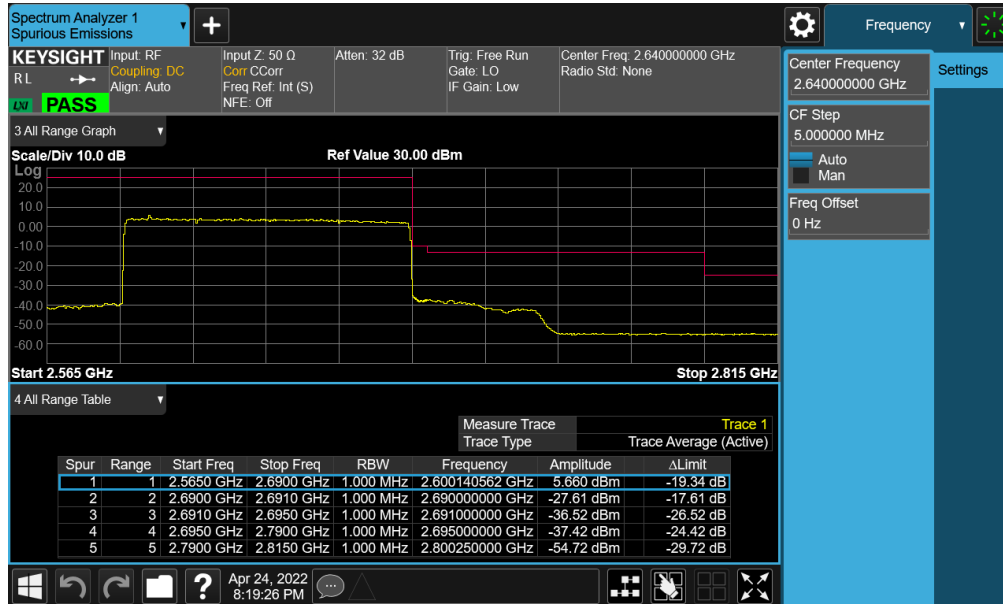
Plot 7-259. Upper Band Edge Plot (NR Band n7 - 5MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n41 – ANT I

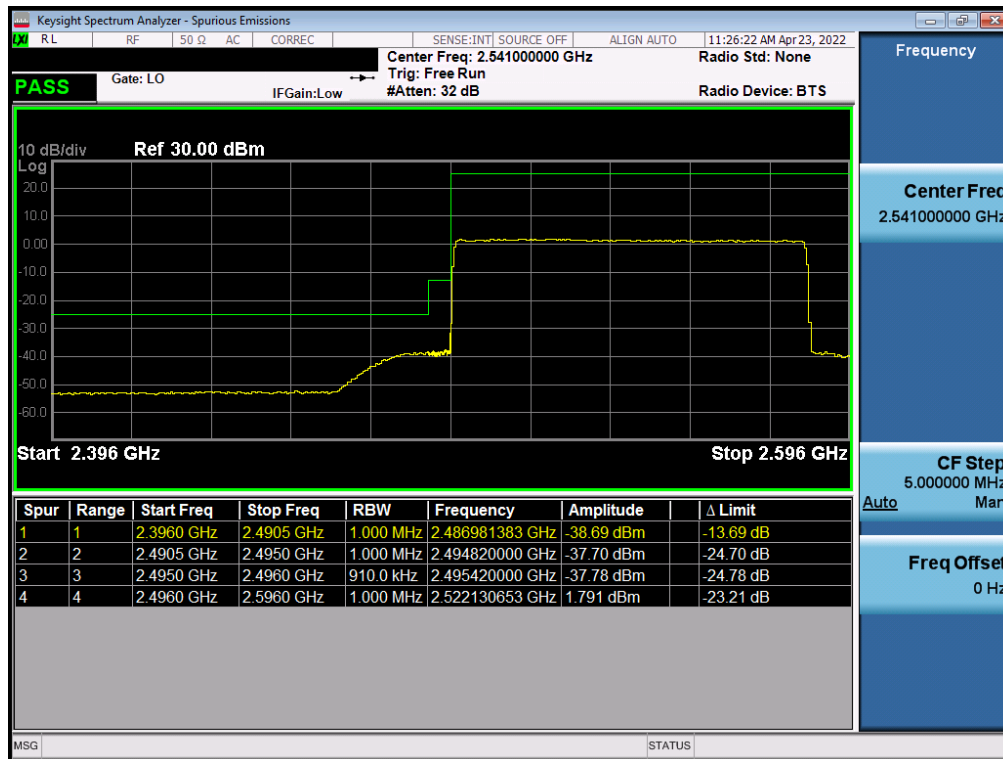


Plot 7-260. Lower ACP Plot (NR Band n41 - 100MHz – Full RB)

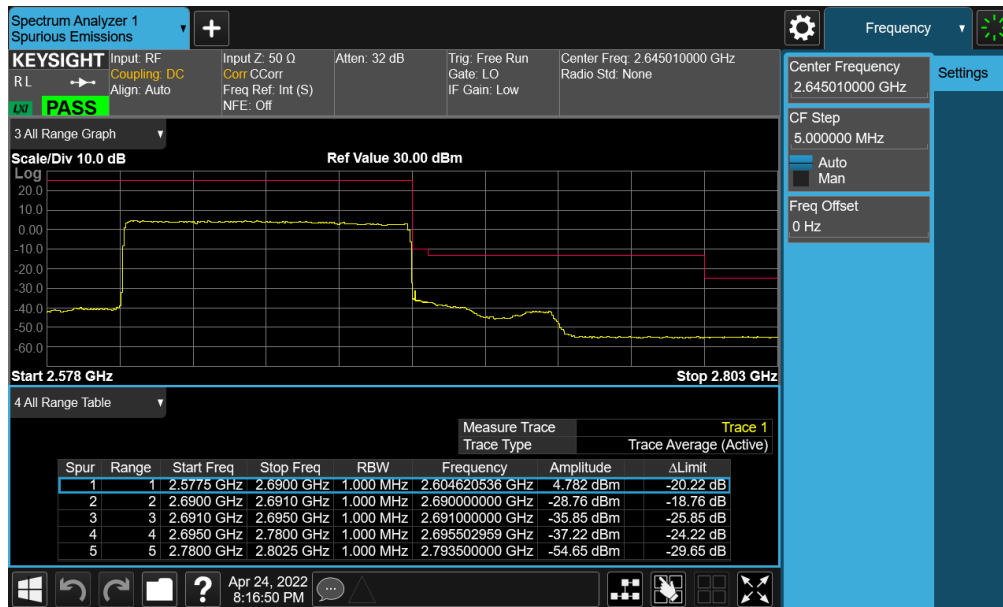


Plot 7-261. Upper ACP Plot (NR Band n41 - 100MHz – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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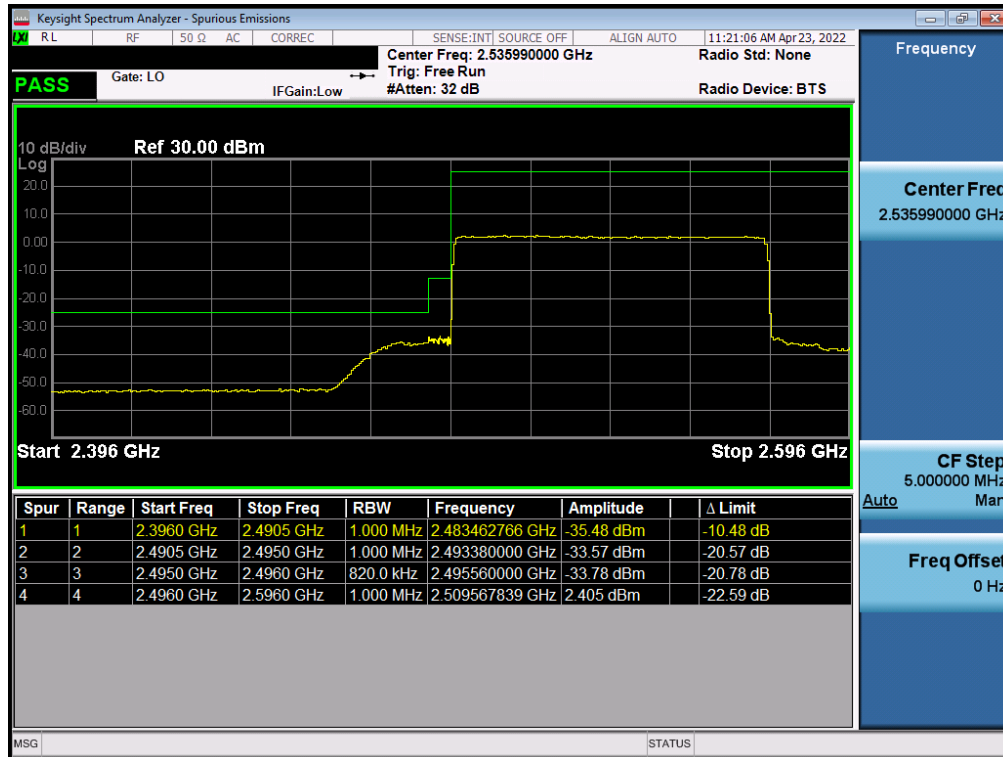
Plot 7-262. Lower ACP Plot (NR Band n41 - 90MHz – Full RB)



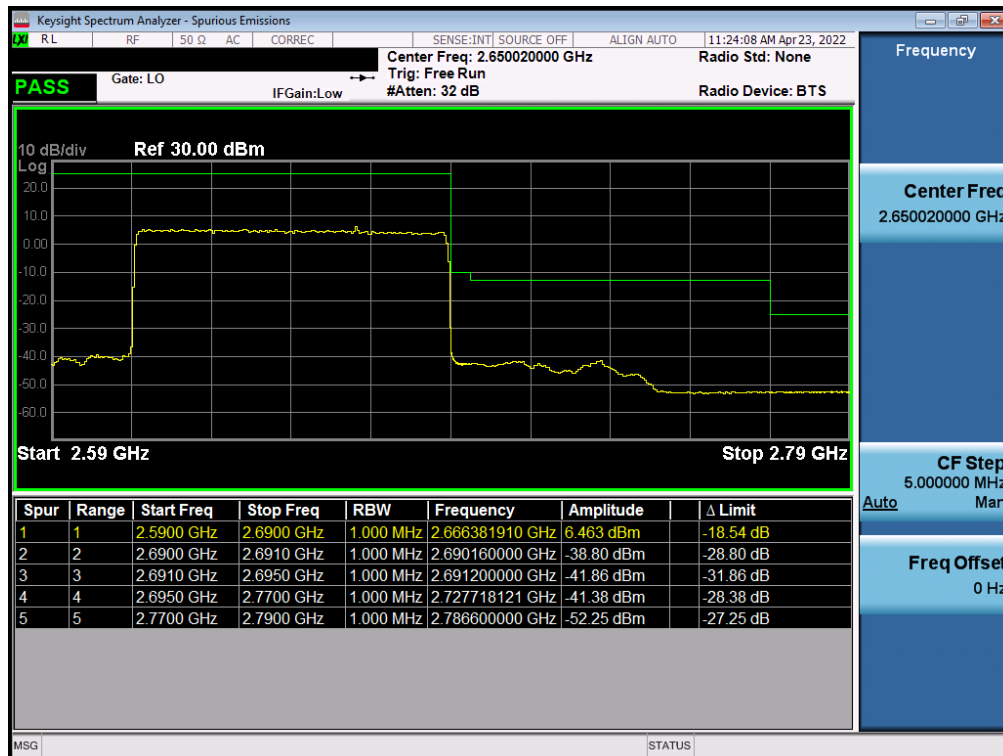
Plot 7-263. Upper ACP Plot (NR Band n41 - 90MHz – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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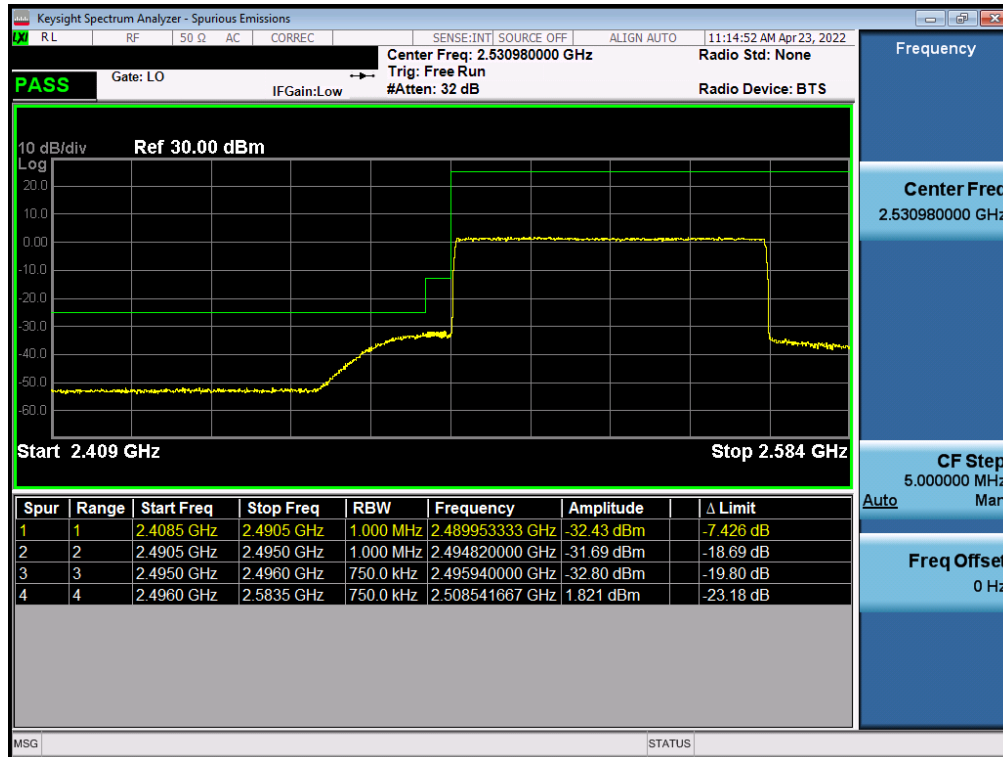


Plot 7-264. Lower ACP Plot (NR Band n41 - 80MHz - Full RB)

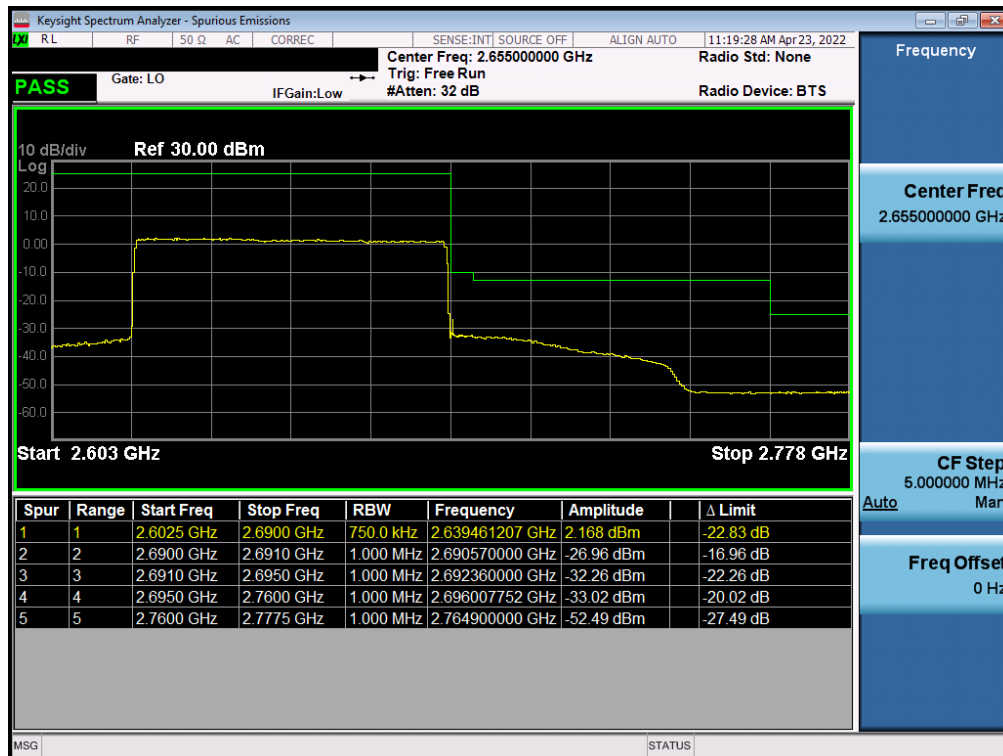


Plot 7-265. Upper ACP Plot (NR Band n41 - 80MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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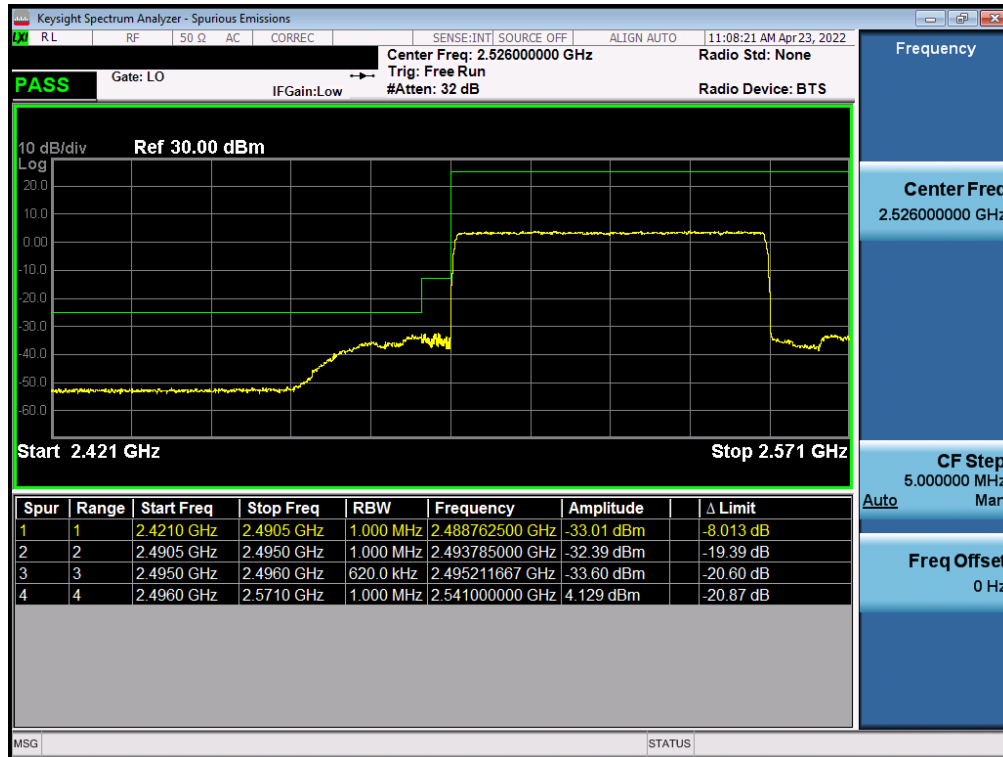


Plot 7-266. Lower ACP Plot (NR Band n41 - 70MHz - Full RB)

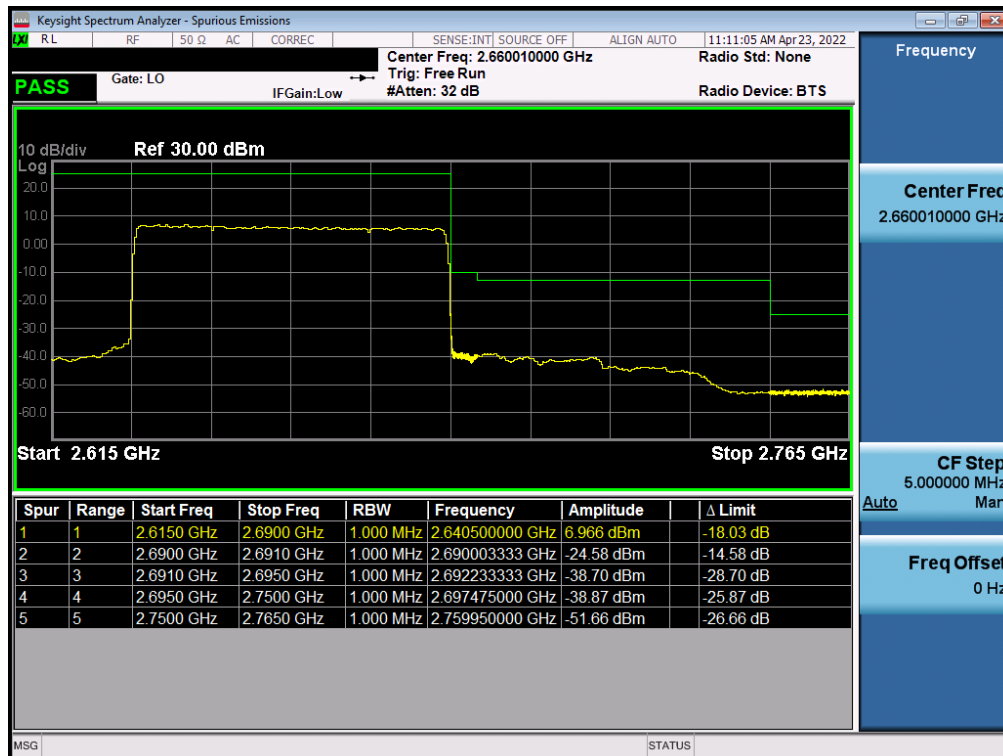


Plot 7-267. Upper ACP Plot (NR Band n41 - 70MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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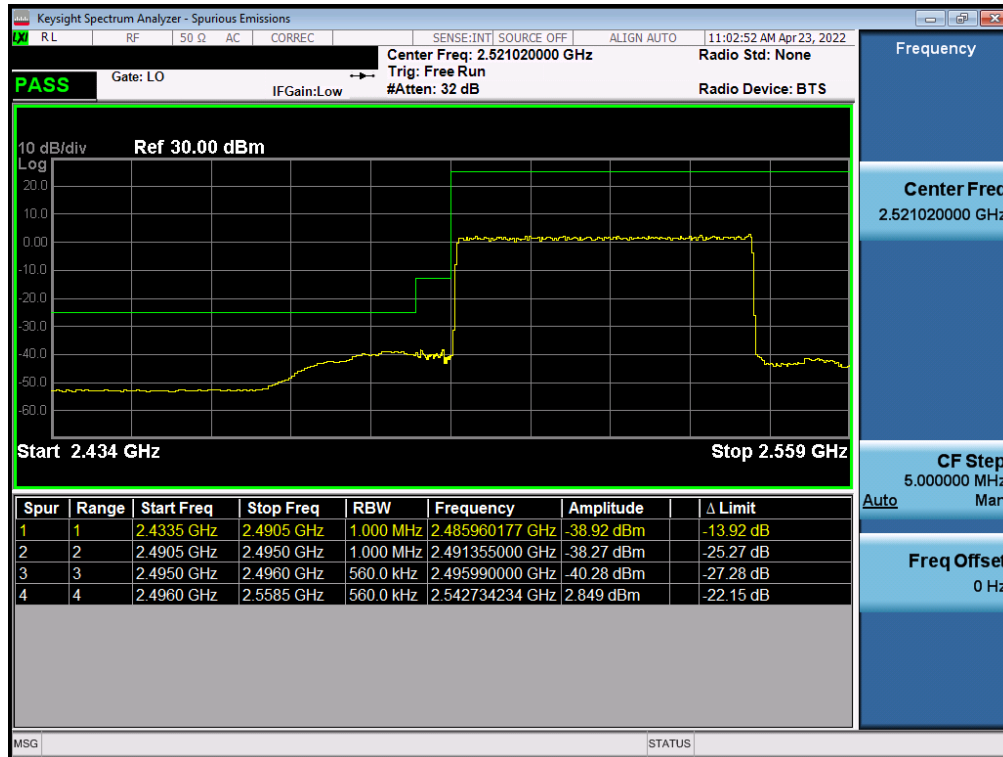


Plot 7-268. Lower ACP Plot (NR Band n41 - 60MHz - Full RB)

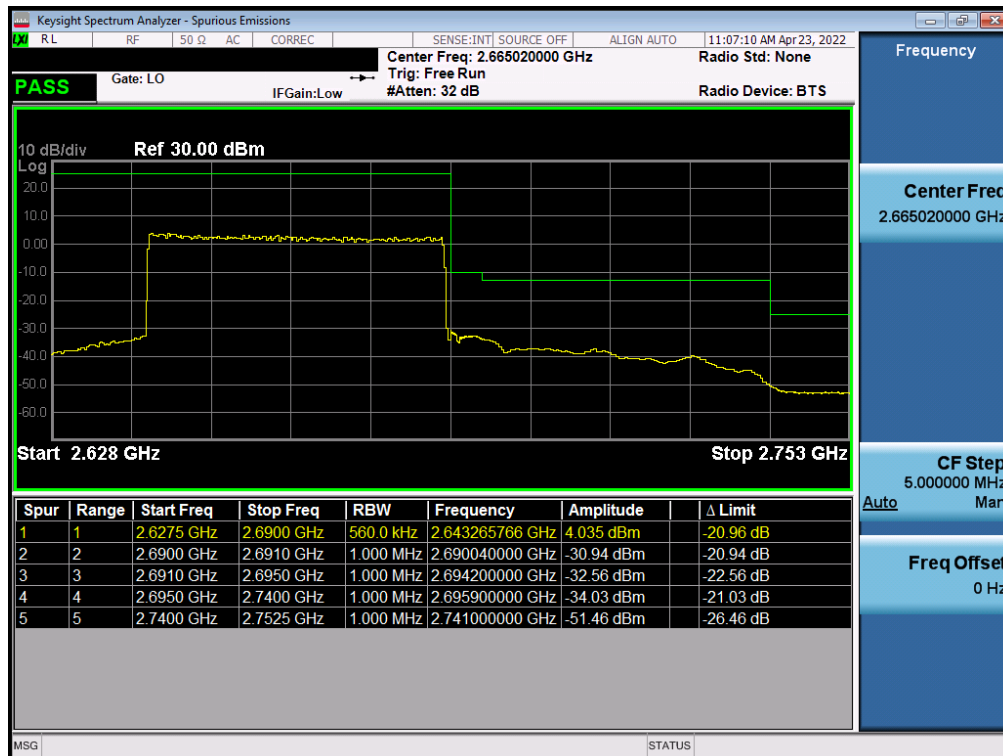


Plot 7-269. Upper ACP Plot (NR Band n41 - 60MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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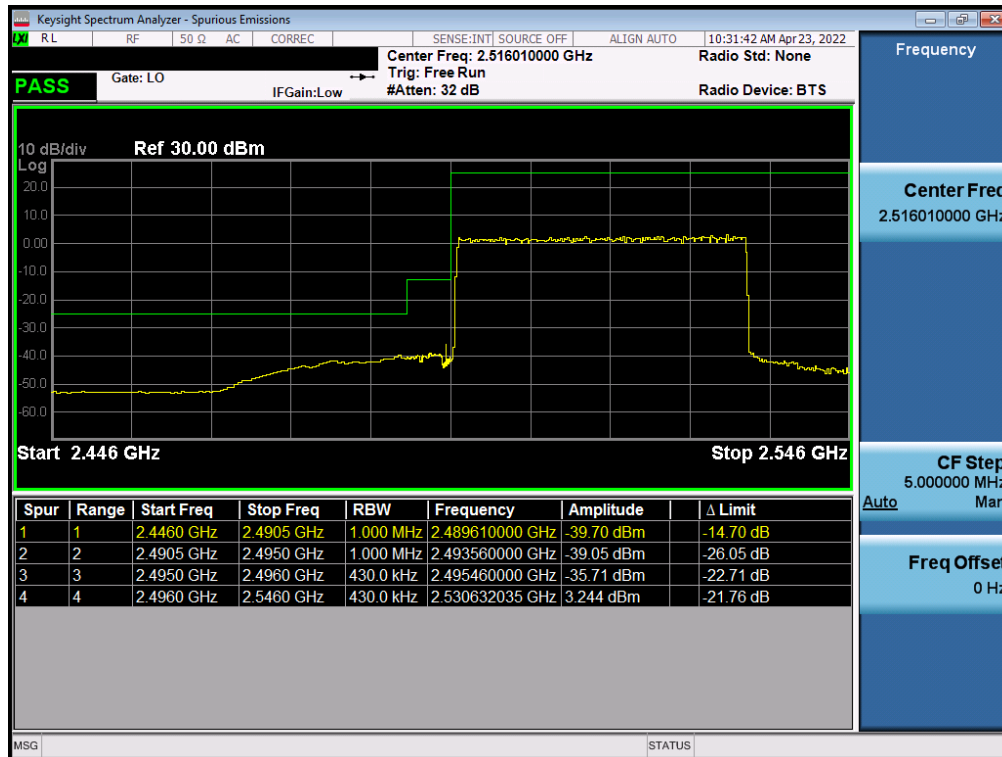


Plot 7-270. Lower ACP Plot (NR Band n41 - 50MHz - Full RB)

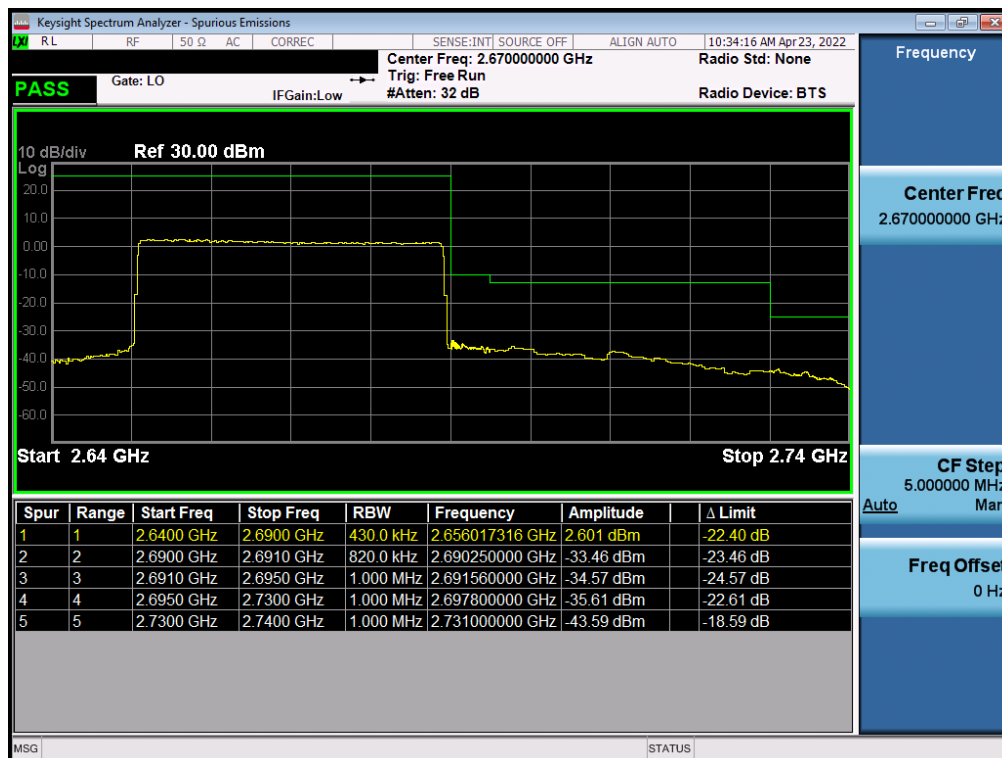


Plot 7-271. Upper ACP Plot (NR Band n41 - 50MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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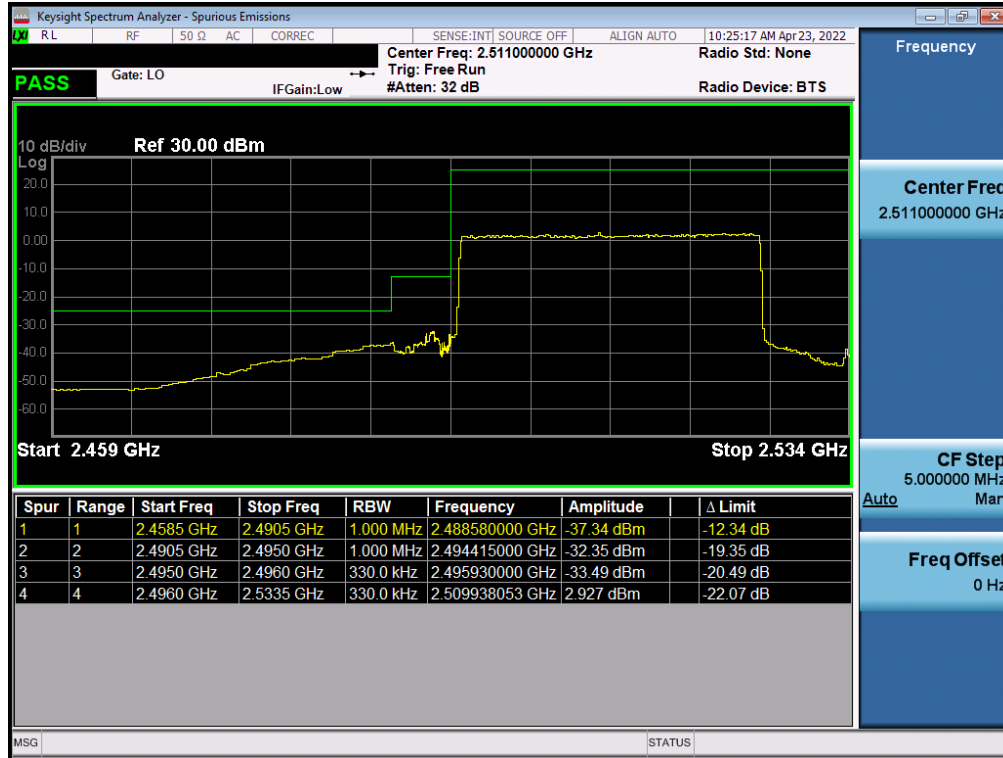


Plot 7-272. Lower ACP Plot (NR Band n41 - 40MHz - Full RB)

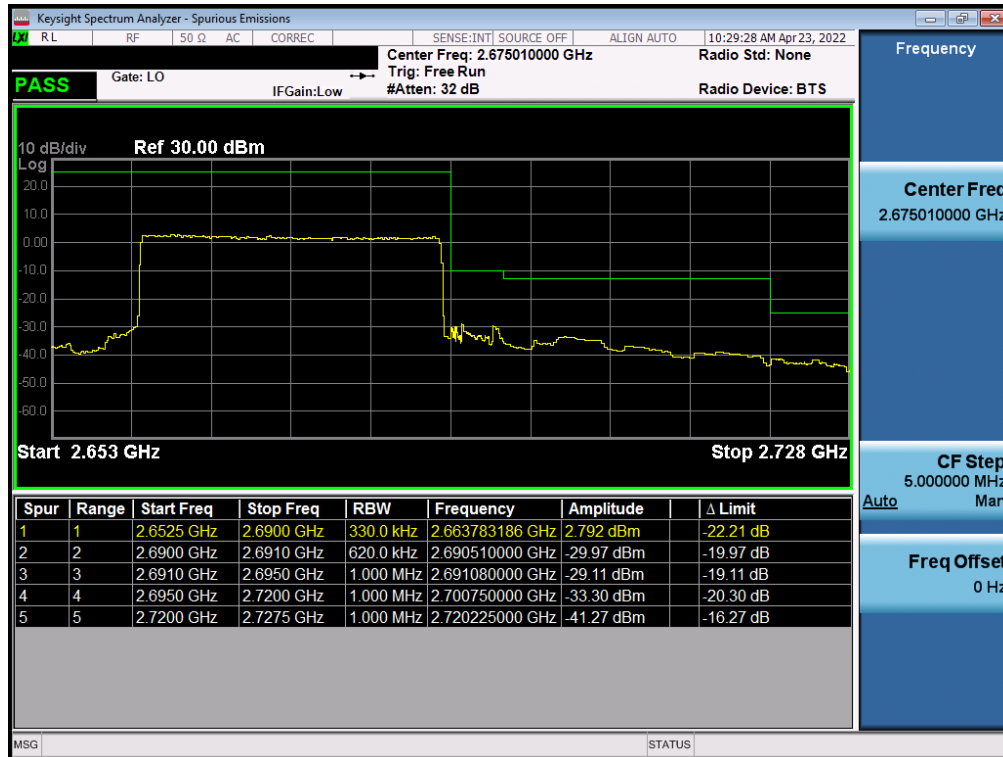


Plot 7-273. Upper ACP Plot (NR Band n41 - 40MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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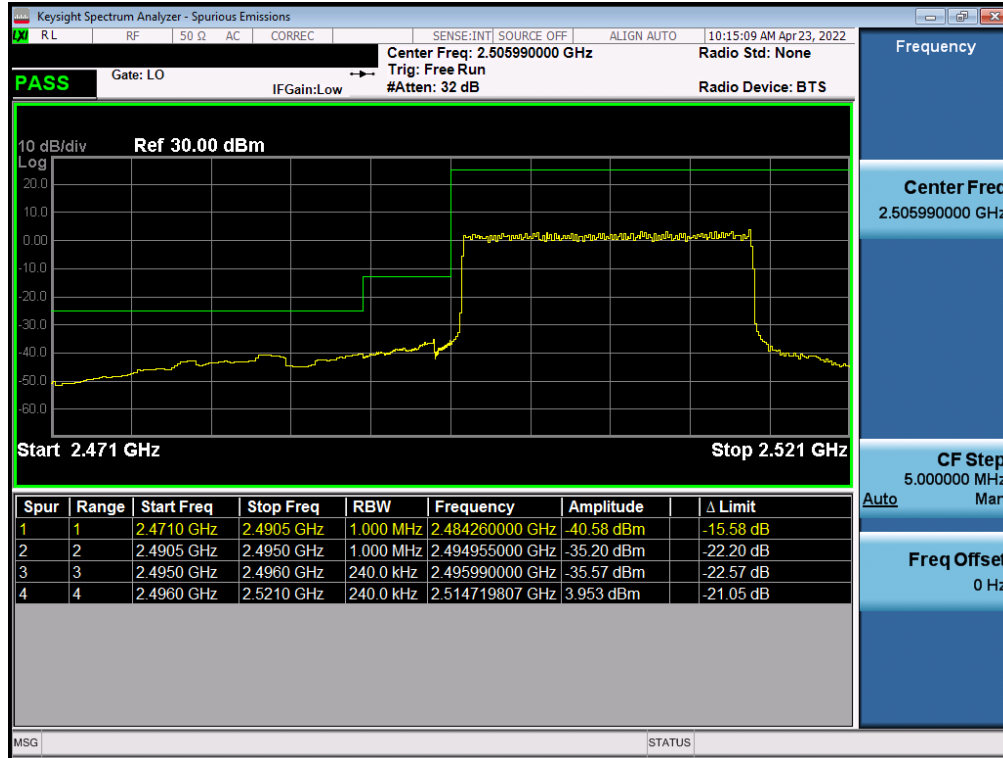
Plot 7-274. Lower ACP Plot (NR Band n41 - 30MHz - Full RB)



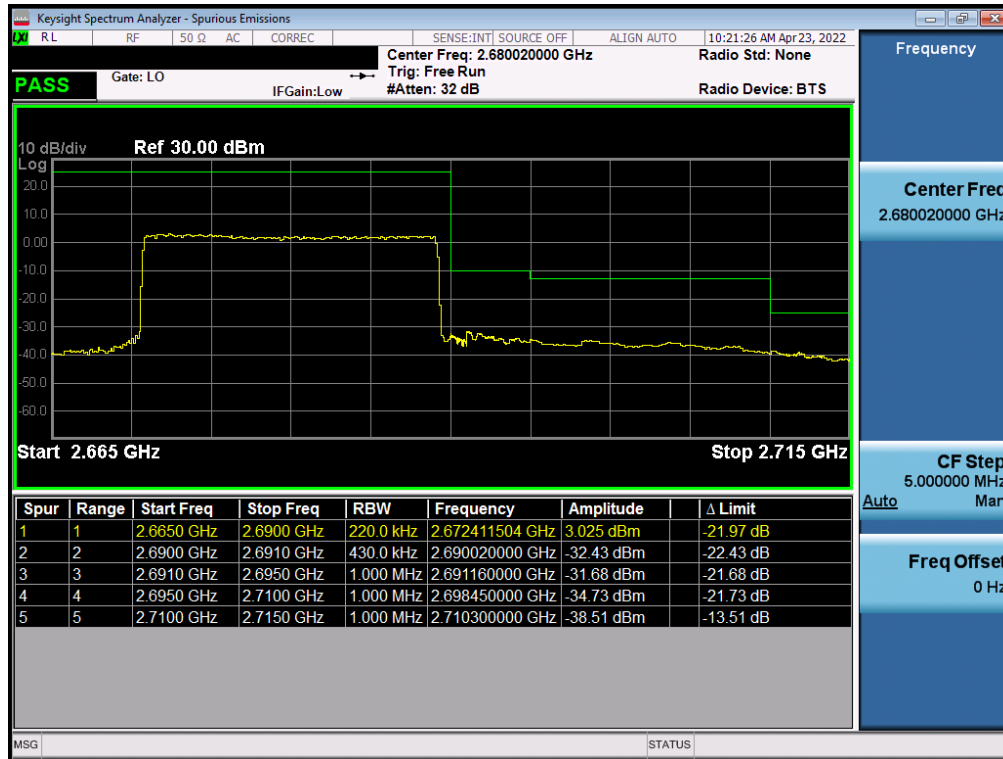
Plot 7-275. Upper ACP Plot (NR Band n41 - 30MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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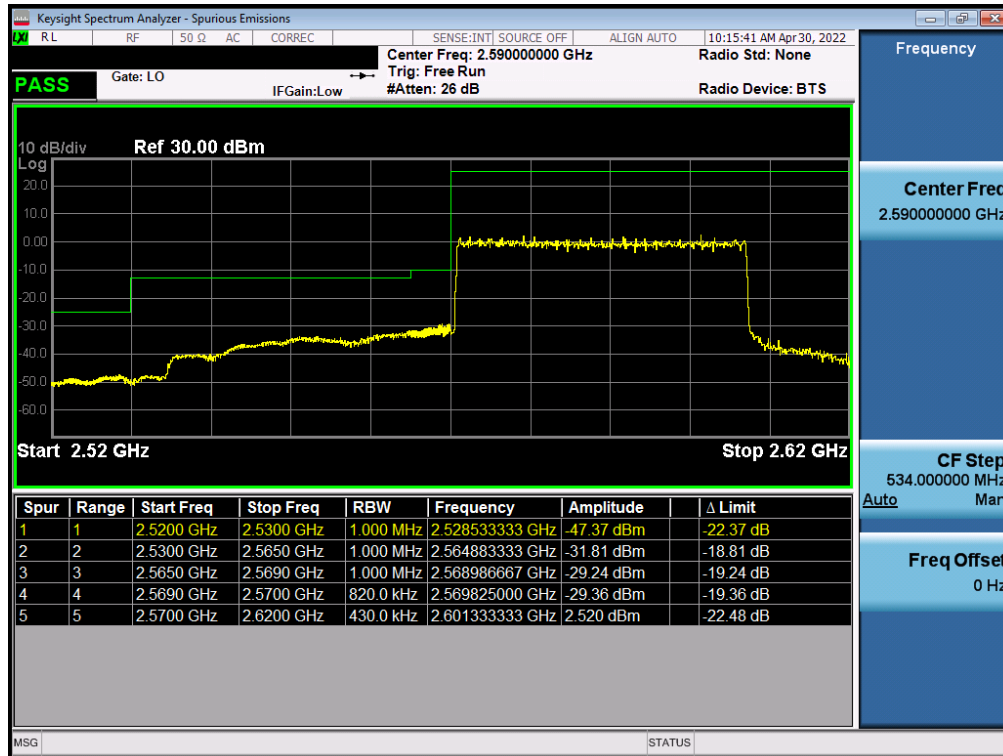
Plot 7-276. Lower ACP Plot (NR Band n41 - 20MHz - Full RB)



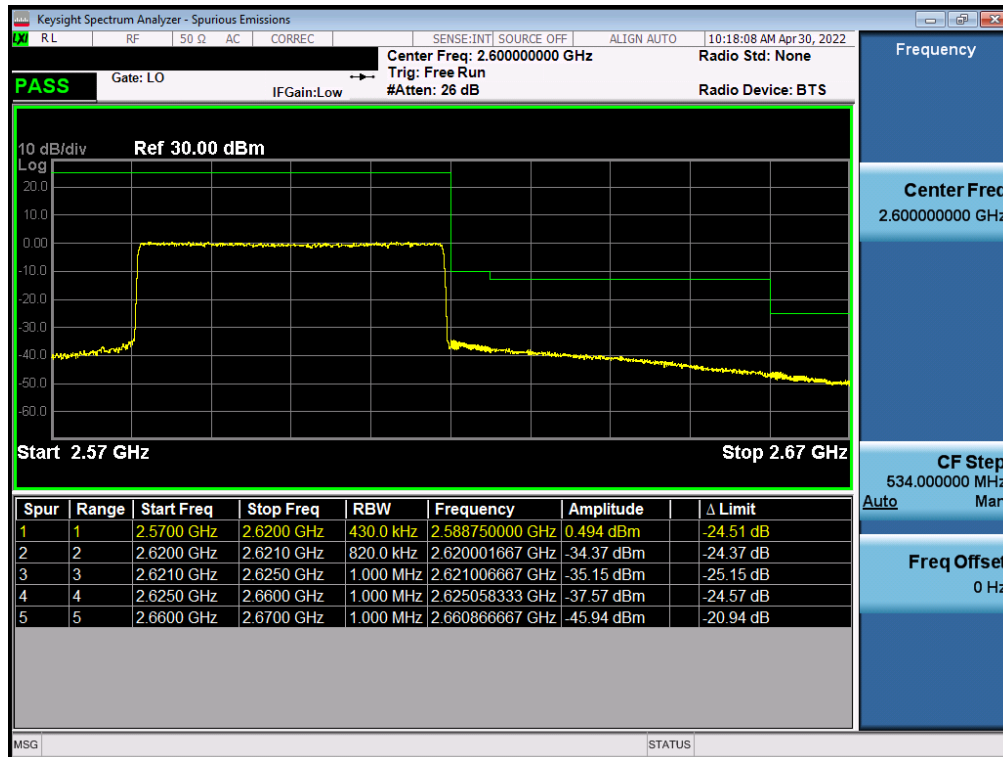
Plot 7-277. Upper ACP Plot (NR Band n41 - 20MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n38



Plot 7-278. Lower ACP Plot (NR Band n38 - 40MHz – Full RB)

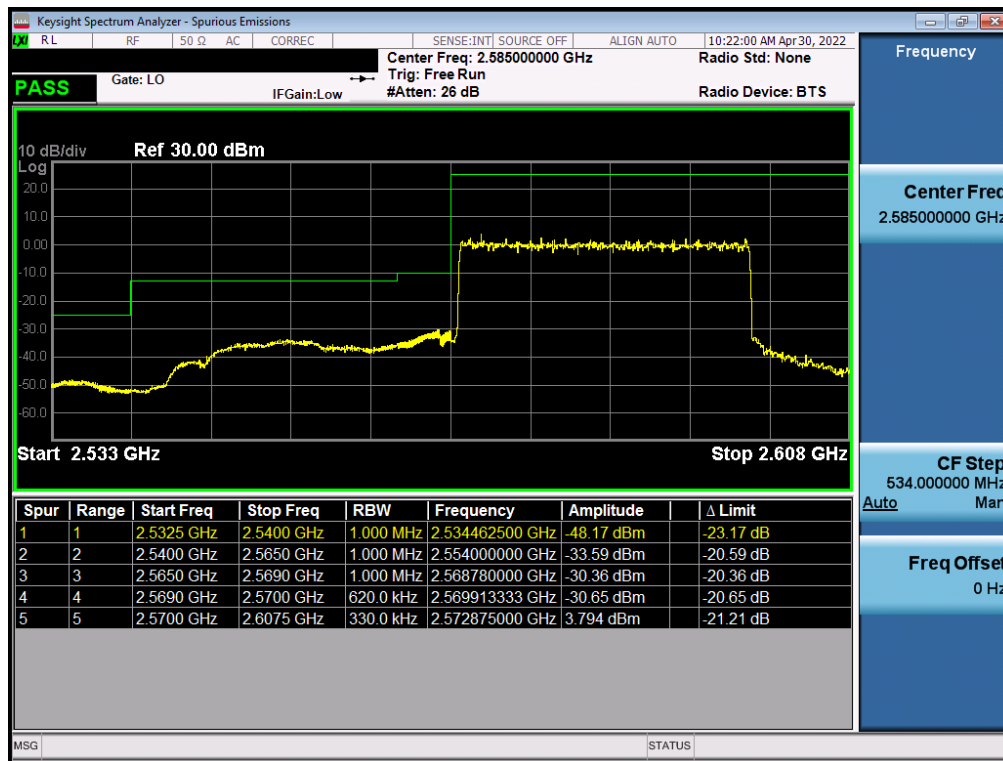


Plot 7-279. Upper ACP Plot (NR Band n38 - 40MHz – Full RB)

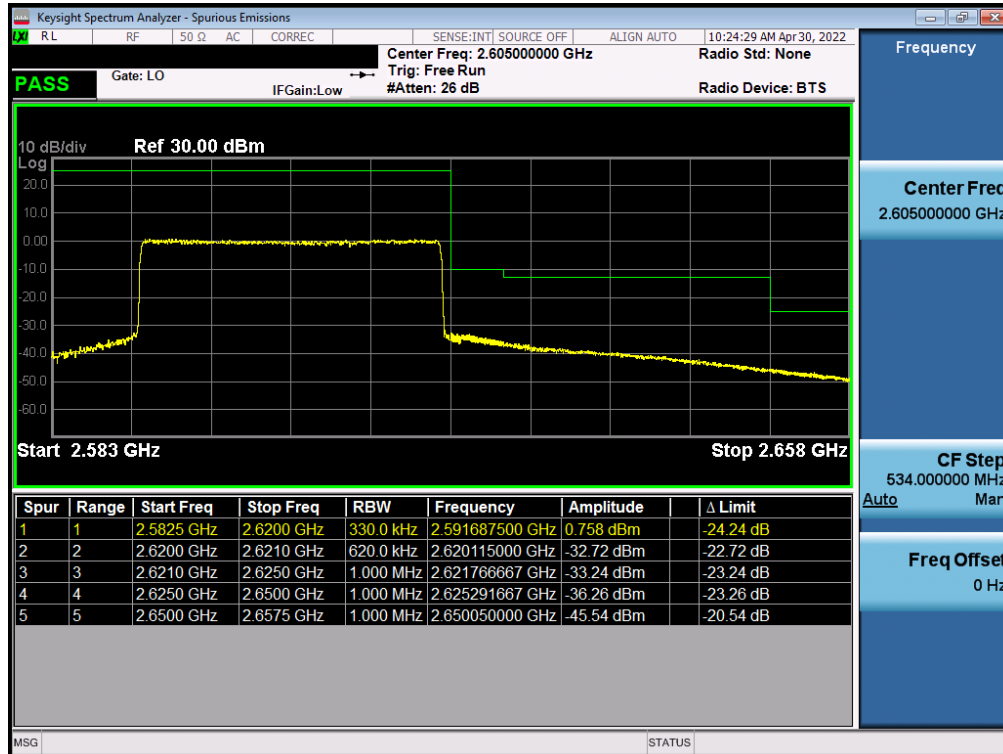
FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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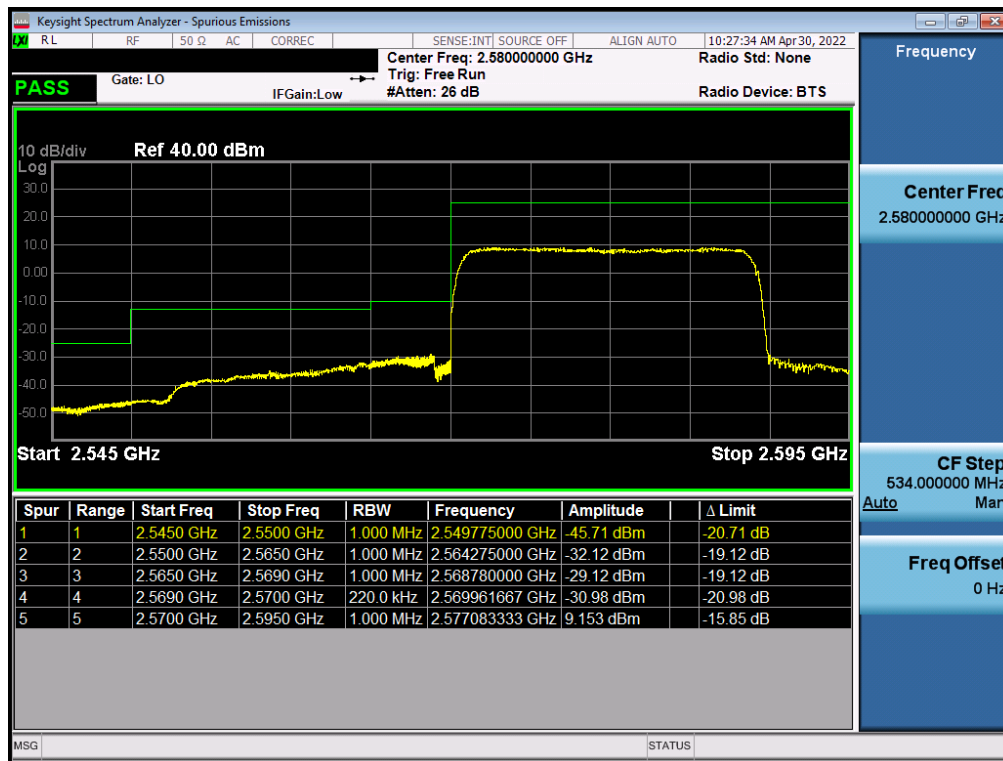


Plot 7-280. Lower ACP Plot (NR Band n38 - 30MHz - Full RB)

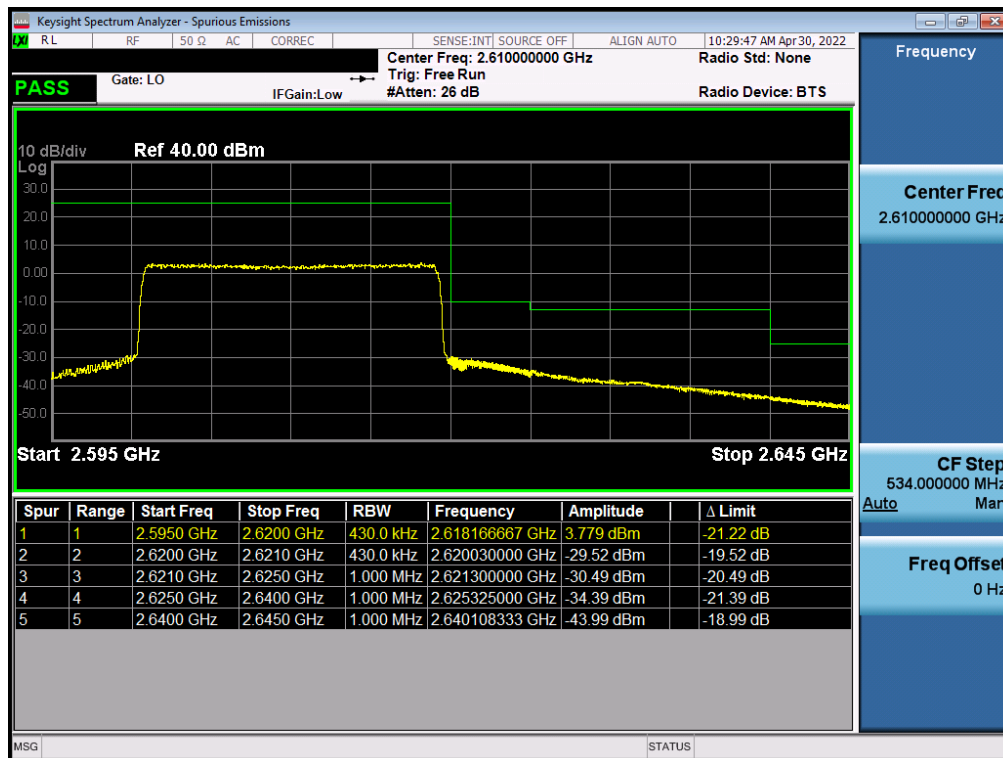


Plot 7-281. Upper ACP Plot (NR Band n38 - 30MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-05.A3L	Test Dates: 4/8/2022 - 6/30/2022	EUT Type: Portable Handset	Page 163 of 238

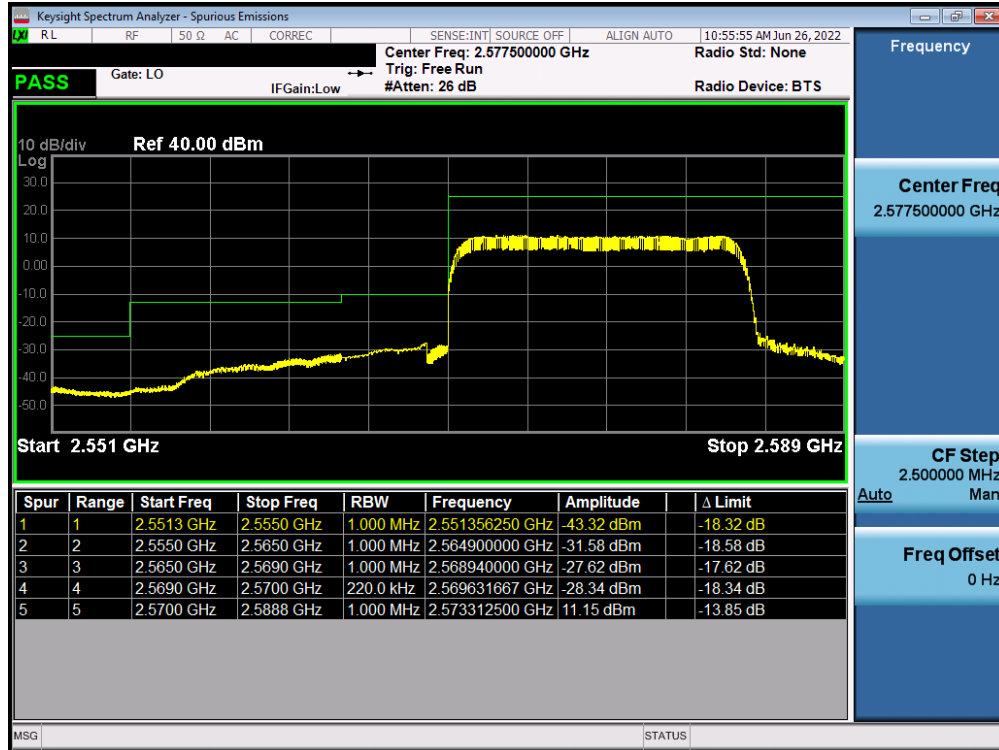


Plot 7-282. Lower ACP Plot (NR Band n38 - 20MHz - Full RB)

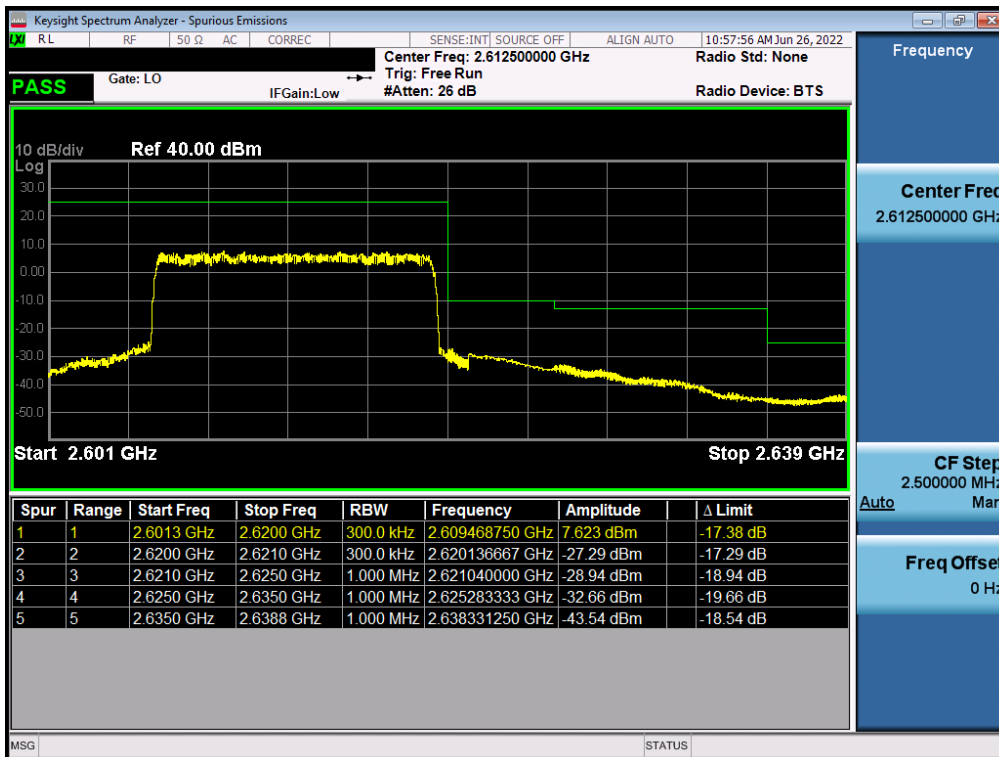


Plot 7-283. Upper ACP Plot (NR Band n38 - 20MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-05.A3L	Test Dates: 4/8/2022 - 6/30/2022	EUT Type: Portable Handset	Page 164 of 238

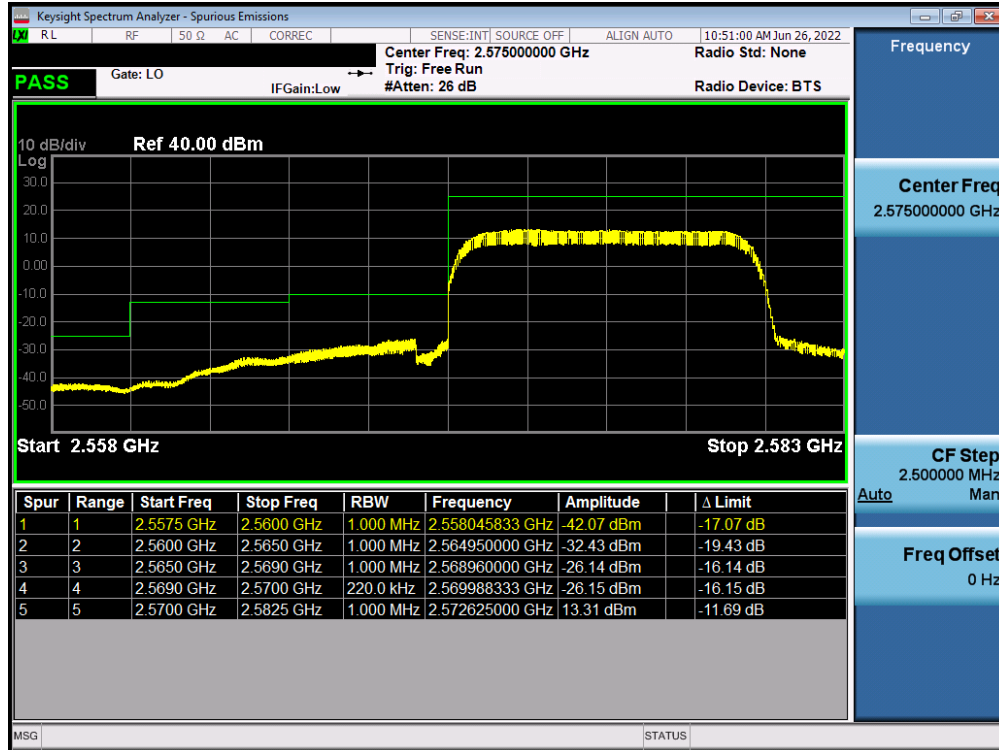


Plot 7-284. Lower ACP Plot (NR Band n38 - 15MHz - Full RB)

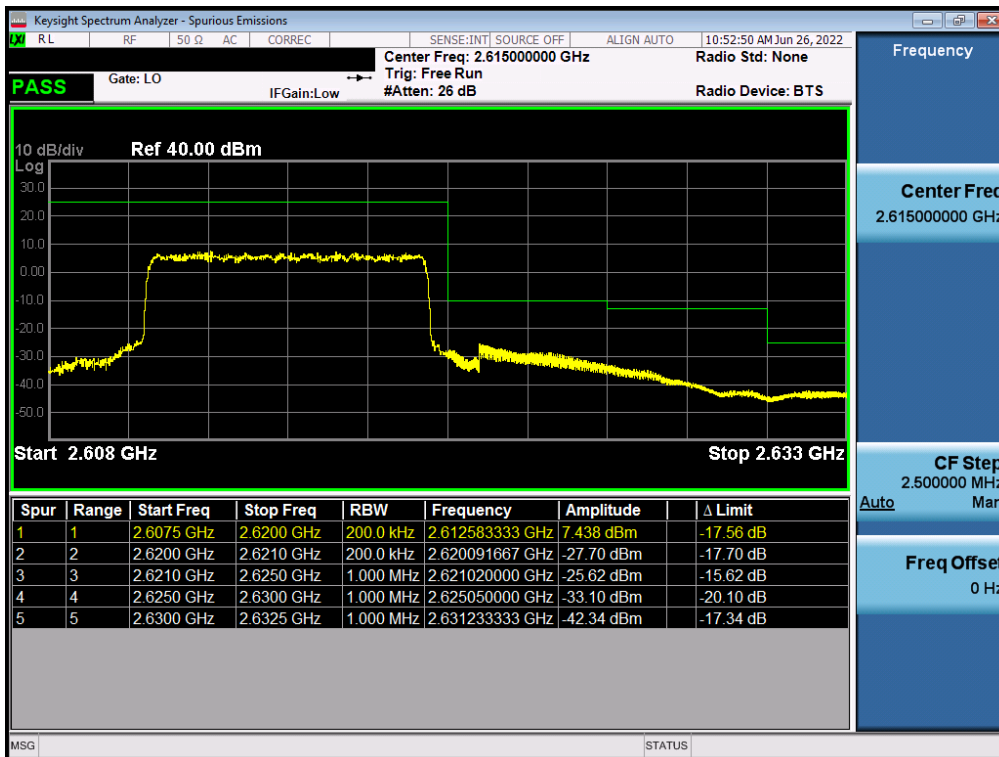


Plot 7-285. Upper ACP Plot (NR Band n38 - 15MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-05.A3L	Test Dates: 4/8/2022 - 6/30/2022	EUT Type: Portable Handset	Page 165 of 238



Plot 7-286. Lower ACP Plot (NR Band n38 - 10MHz - Full RB)



Plot 7-287. Upper ACP Plot (NR Band n38 - 10MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-05.A3L	Test Dates: 4/8/2022 - 6/30/2022	EUT Type: Portable Handset	Page 166 of 238

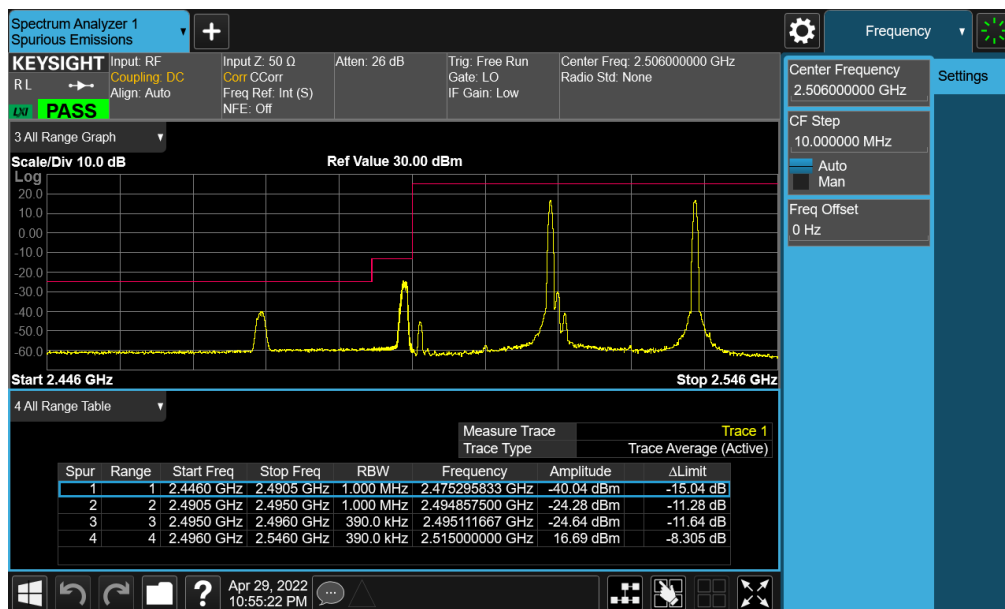


<b>FCC ID:</b> A3LSMF721U	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2204080051-05.A3L	<b>Test Dates:</b> 4/8/2022 - 6/30/2022	<b>EUT Type:</b> Portable Handset	Page 167 of 238

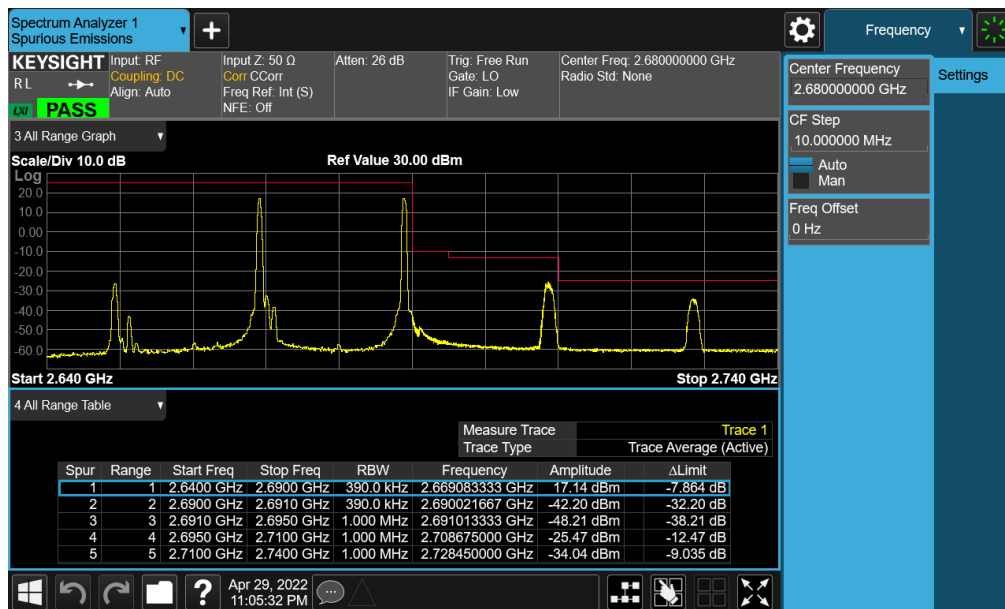
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## ULCA - LTE Band 41(PC2)



Plot 7-288. Lower ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – PCC RB/Offset 1/99 SCC RB/Offset 1/99)



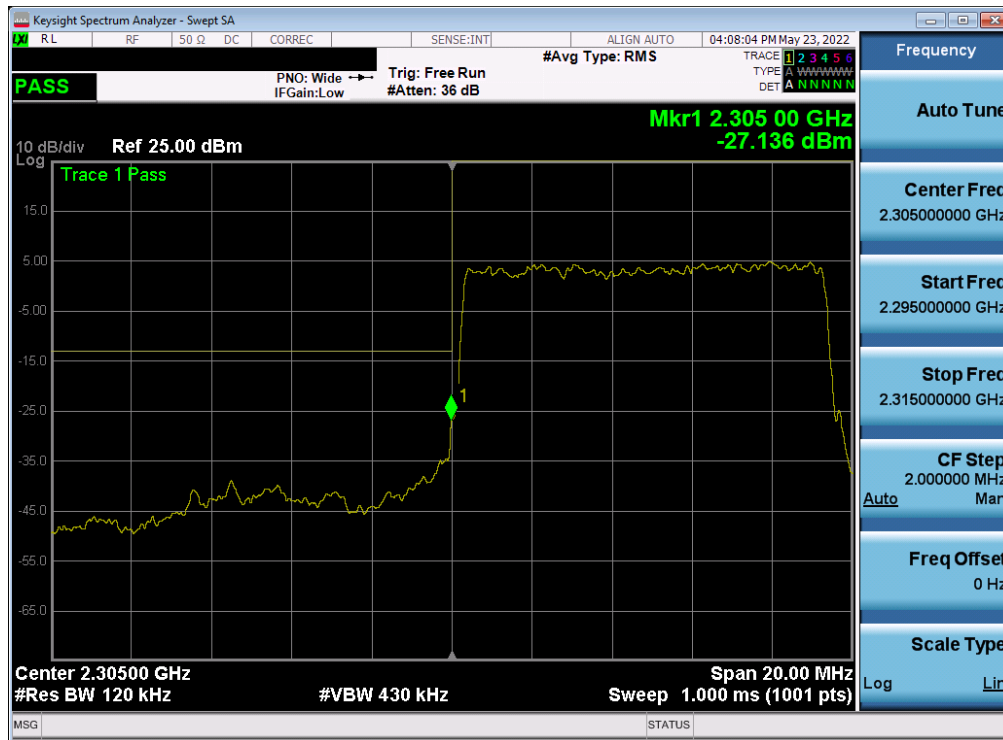
Plot 7-289. Upper ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – PCC RB/Offset 1/99 SCC RB/Offset 1/99)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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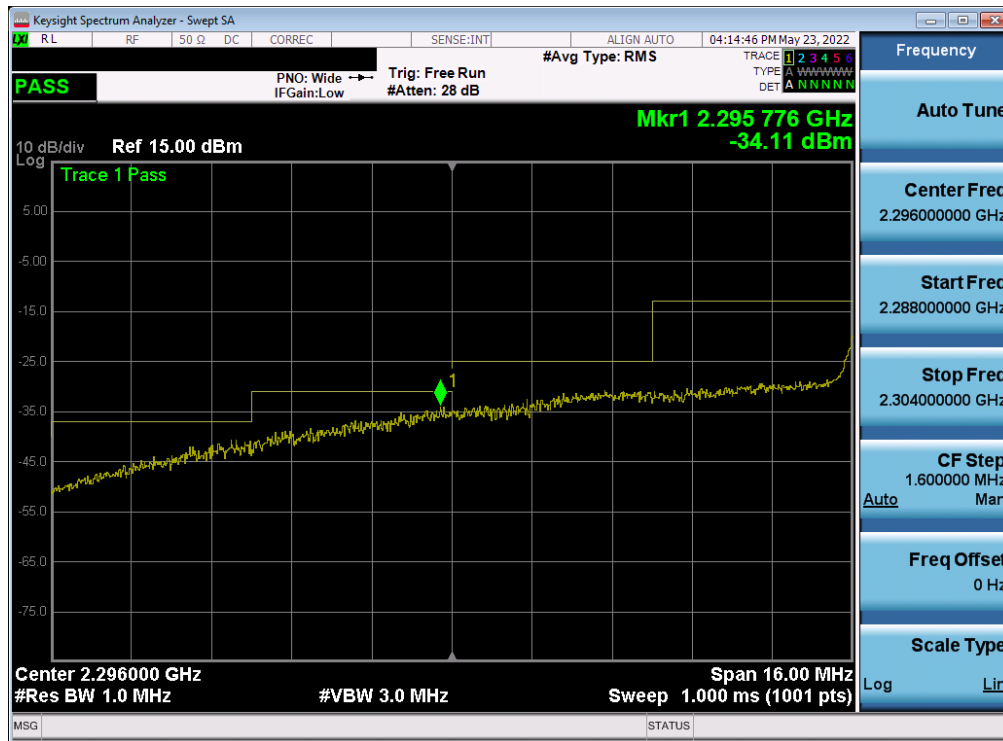
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## NR Band n30 – ANT I



Plot 7-290. Lower Band Edge Plot (NR Band n30 - 10MHz – Full RB)



Plot 7-291. Extended Lower Band Edge Plot (NR Band n30 - 10MHz – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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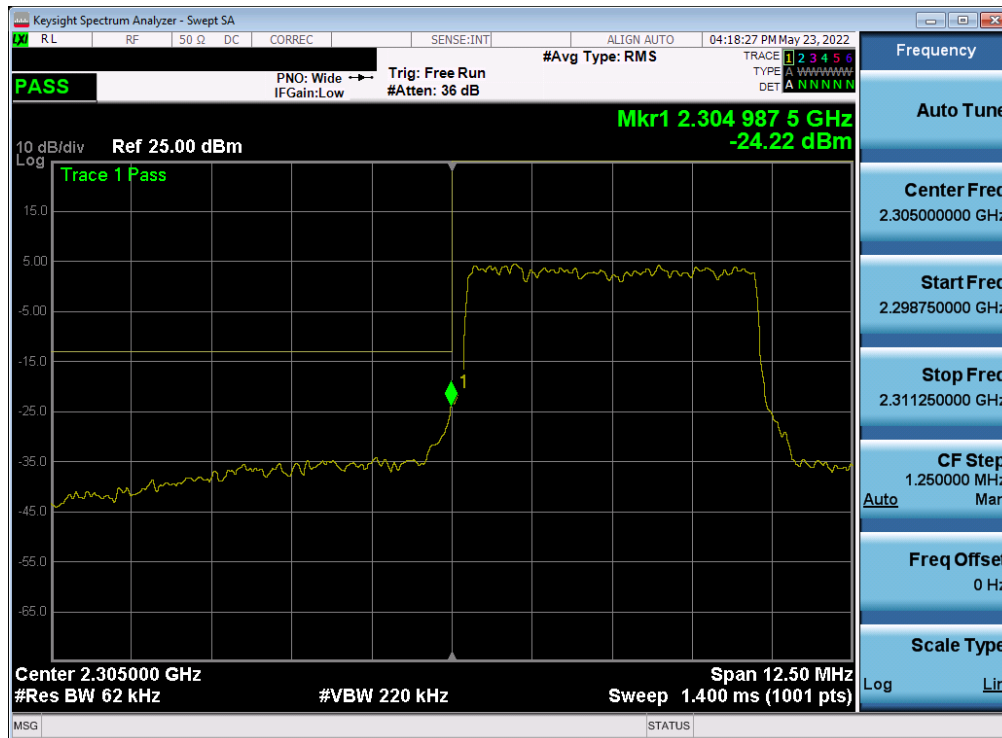


Plot 7-292. Upper Band Edge Plot (NR Band n30 - 10MHz - Full RB)

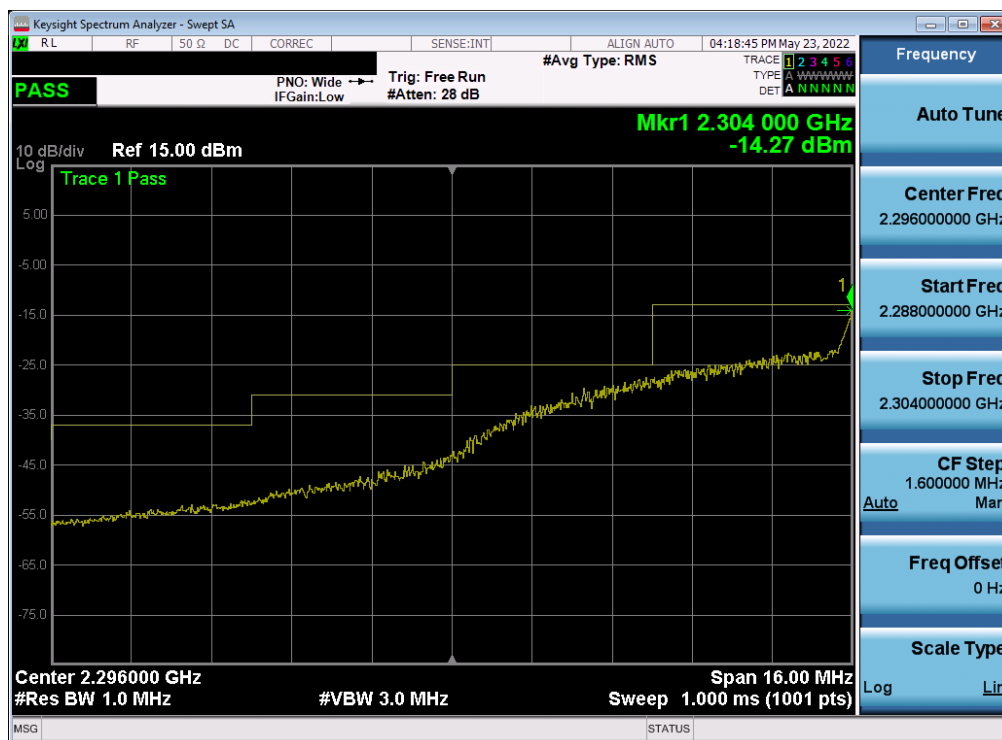


Plot 7-293. Extended Upper Band Edge Plot (NR Band n30 - 10MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-294. Lower Band Edge Plot (NR Band n30 - 5MHz - Full RB)

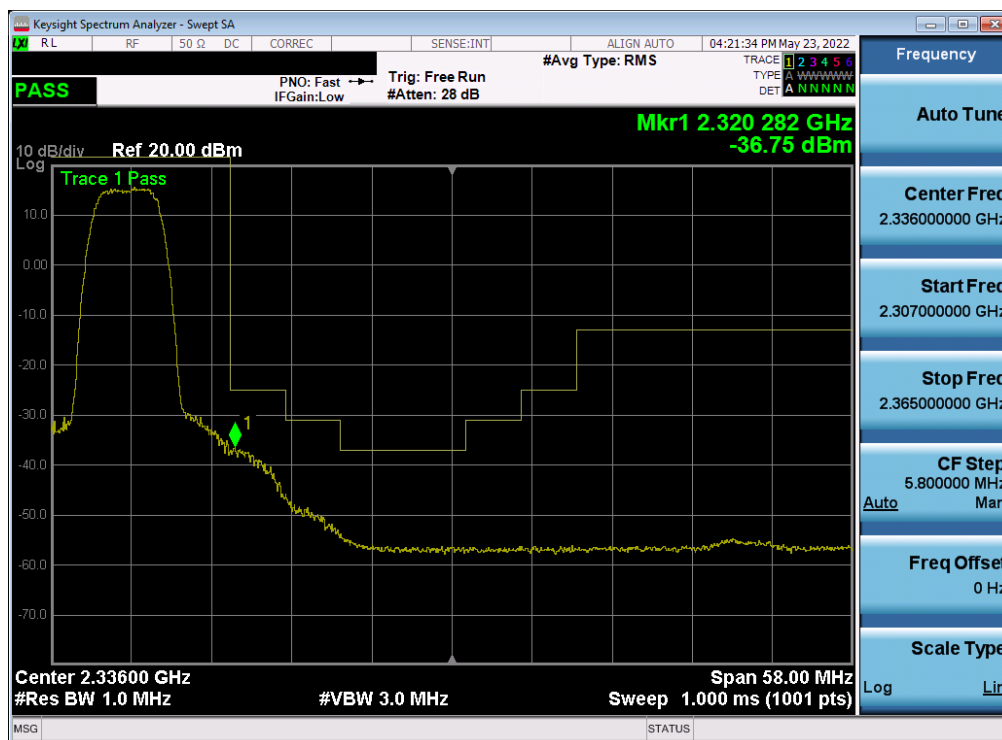


Plot 7-295. Extended Lower Band Edge Plot (NR Band n30 - 5MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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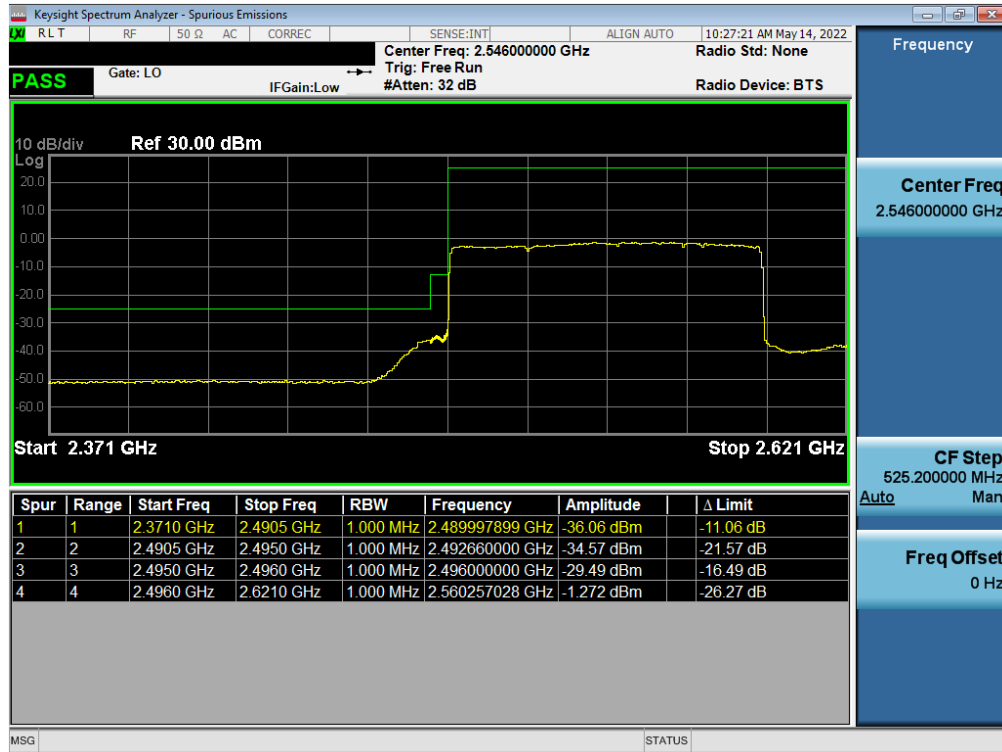
Plot 7-296. Upper Band Edge Plot (NR Band n30 - 5MHz - Full RB)



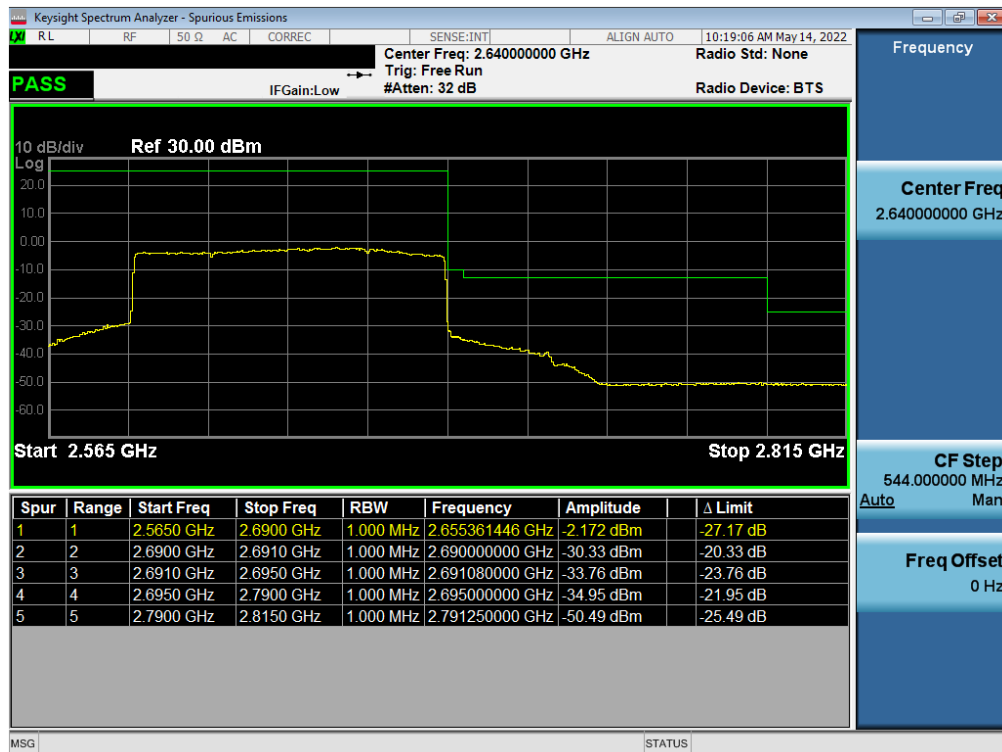
Plot 7-297. Extended Upper Band Edge Plot (NR Band n30 - 5MHz - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-05.A3L	Test Dates: 4/8/2022 - 6/30/2022	EUT Type: Portable Handset	Page 172 of 238

## NR Band n41 ANT B



Plot 7-298. Lower ACP Plot (NR Band n41 - 100MHz – Full RB)



Plot 7-299. Upper ACP Plot (NR Band n41 - 100MHz – Full RB)

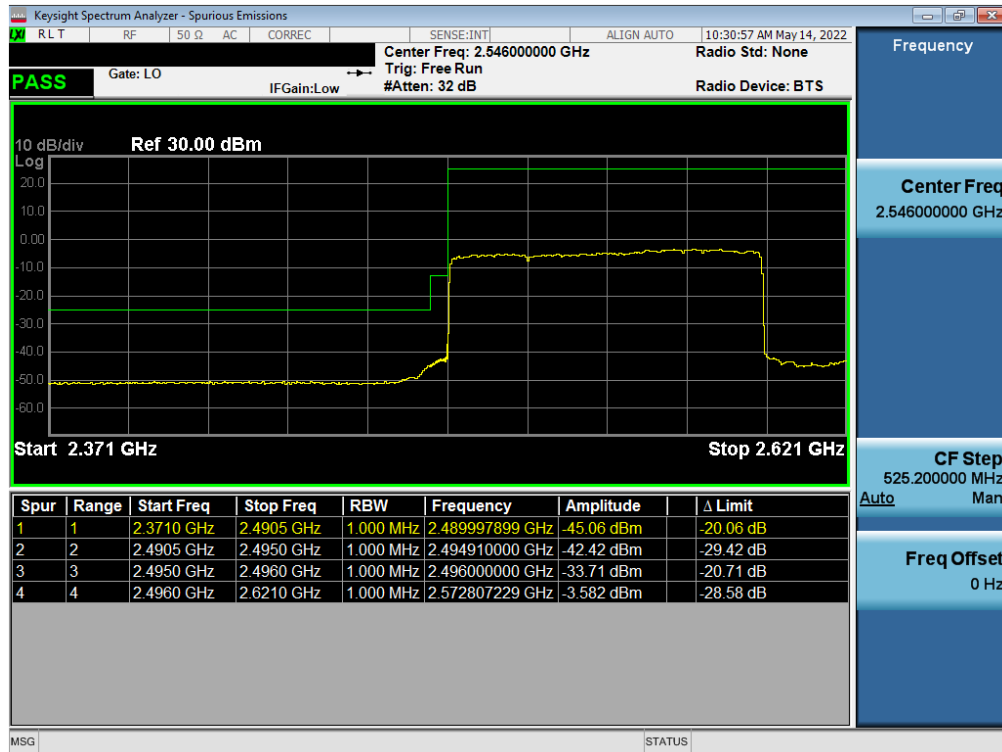
FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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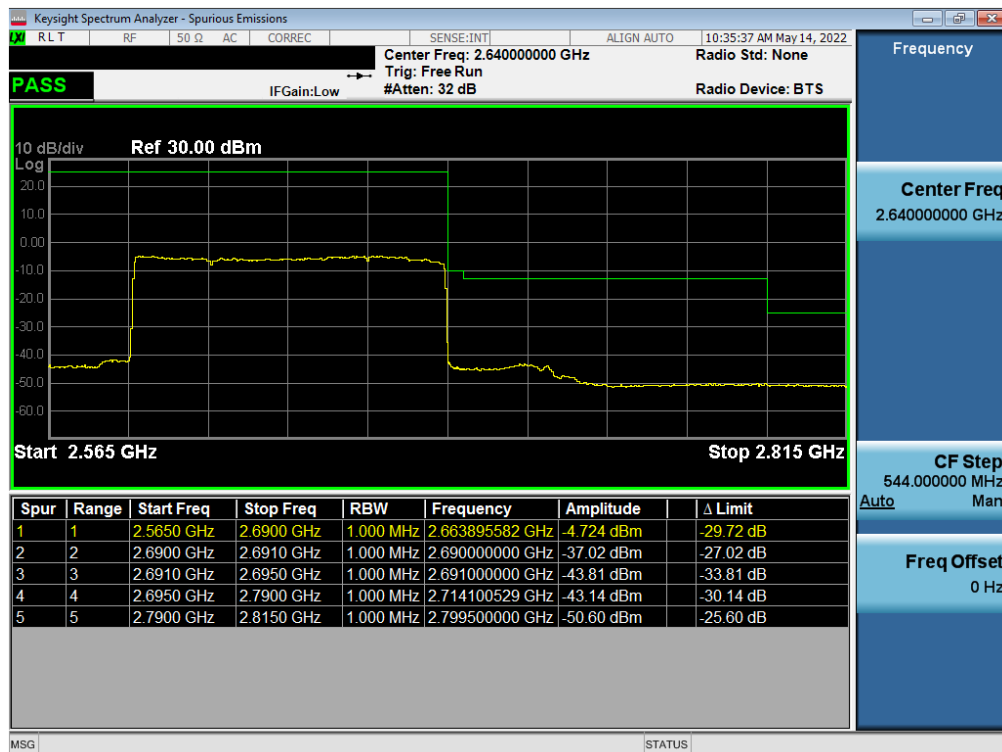
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## NR Band n41 – ANT F



Plot 7-300. Lower ACP Plot (NR Band n41 - 100MHz – Full RB)



Plot 7-301. Upper ACP Plot (NR Band n41 - 100MHz – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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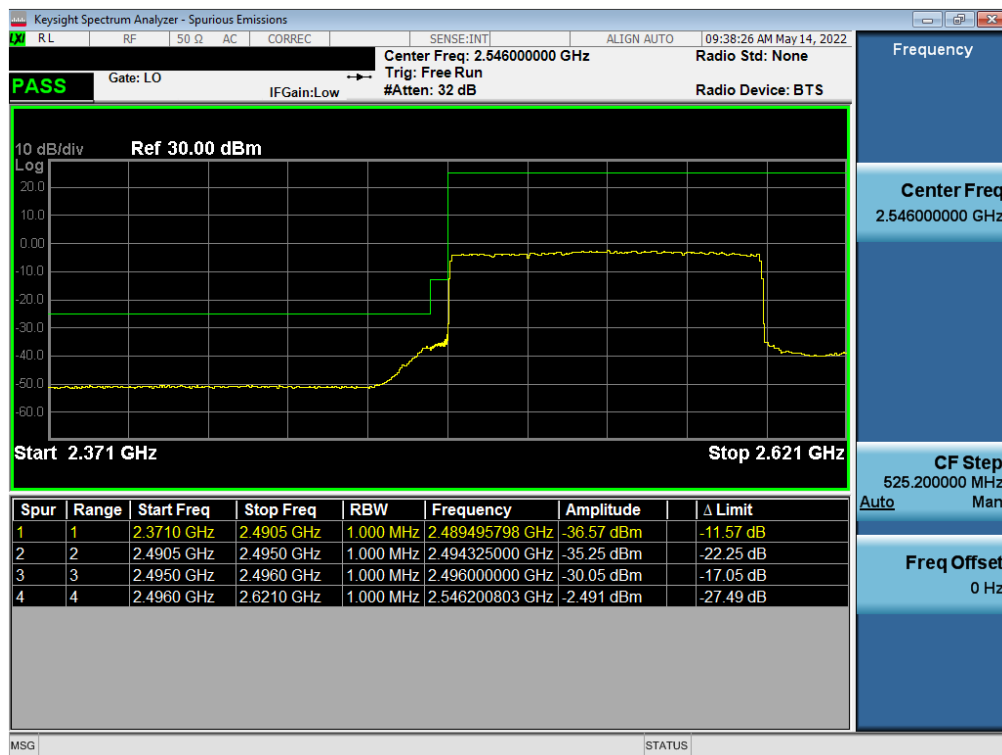
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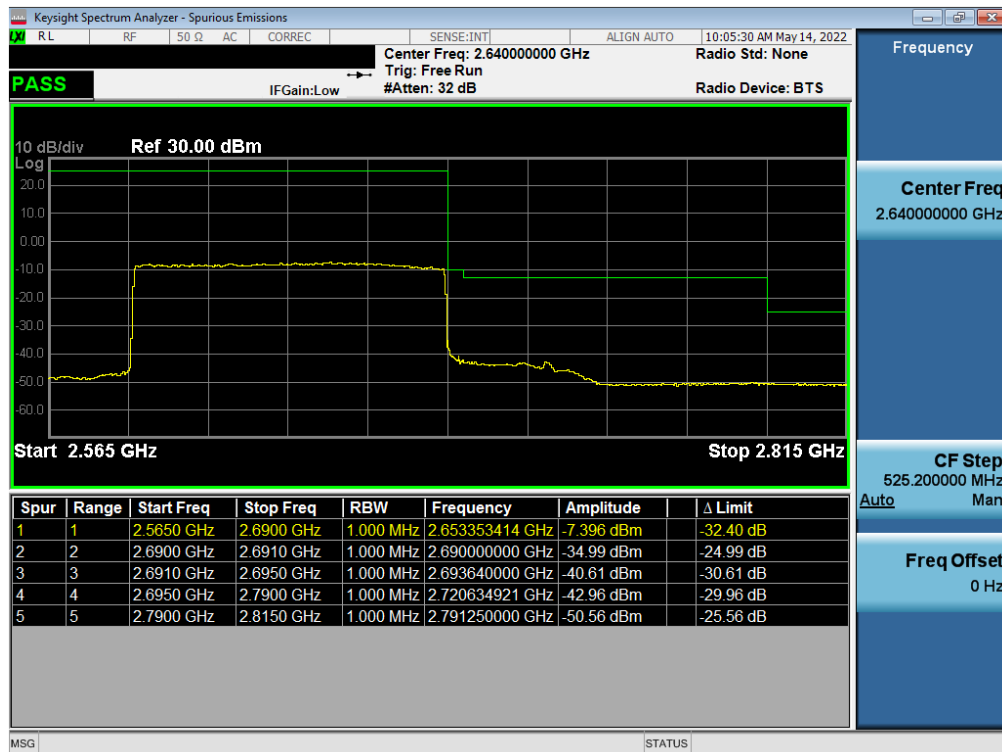
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## NR Band n41 – ANT C



Plot 7-302. Lower ACP Plot (NR Band n41 - 100MHz – Full RB)



Plot 7-303. Upper ACP Plot (NR Band n41 - 100MHz – Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## 7.6 Radiated Power (EIRP)

### Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements 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

ANSI C63.26-2015 – Section 5.2.4.4

### Test Settings

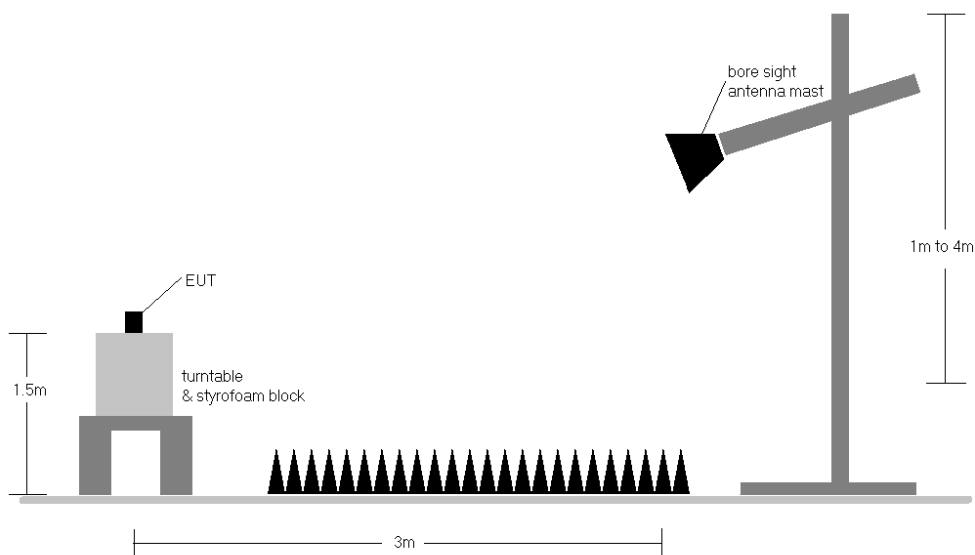
1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not 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 7-5. 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	H	108	210	10.55	1 / 49	11.54	<b>22.09</b>	0.162	23.98	-1.89
	16-QAM	2310.0	H	108	210	10.55	1 / 49	10.73	21.28	0.134	23.98	-2.70
5 MHz	QPSK	2307.5	H	108	210	10.52	1 / 0	11.58	22.10	0.162	23.98	-1.88
	QPSK	2310.0	H	108	210	10.55	1 / 12	11.73	<b>22.27</b>	0.169	23.98	-1.71
	QPSK	2312.5	H	108	210	10.56	1 / 12	11.04	21.60	0.145	23.98	-2.38
	16-QAM	2312.5	H	108	210	10.56	1 / 0	10.88	21.44	0.139	23.98	-2.54
10 MHz	Opposite Pol.	2310.0	V	142	285	10.37	1 / 49	11.35	21.72	0.149	23.98	-2.26
	QPSK (Half)	2310.0	V	151	285	10.37	1 / 25	11.54	21.91	0.155	23.98	-2.07
	WCP	2310.0	H	107	210	10.55	1 / 49	10.32	20.87	0.122	23.98	-3.11

Table 7-1. 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	115	186	9.51	1 / 50	13.07	<b>22.58</b>	0.181	33.01	-10.43
	QPSK	2535.0	H	146	184	9.40	1 / 50	12.38	21.78	0.151	33.01	-11.23
	QPSK	2560.0	H	146	182	9.43	1 / 50	12.70	22.13	0.163	33.01	-10.88
	16-QAM	2510.0	H	115	186	9.51	1 / 50	12.29	<b>21.80</b>	0.151	33.01	-11.21
15 MHz	QPSK	2507.5	H	115	186	9.50	1 / 74	13.10	<b>22.60</b>	0.182	33.01	-10.41
	QPSK	2535.0	H	146	184	9.40	1 / 37	12.33	21.73	0.149	33.01	-11.28
	QPSK	2562.5	H	146	182	9.43	1 / 37	12.76	22.19	0.165	33.01	-10.82
	16-QAM	2507.5	H	115	186	9.50	1 / 74	12.22	<b>21.72</b>	0.149	33.01	-11.29
10 MHz	QPSK	2505.0	H	115	186	9.50	1 / 25	13.08	<b>22.58</b>	0.181	33.01	-10.43
	QPSK	2535.0	H	146	184	9.40	1 / 25	12.44	21.84	0.153	33.01	-11.17
	QPSK	2565.0	H	146	182	9.42	1 / 25	12.78	22.20	0.166	33.01	-10.81
	16-QAM	2505.0	H	115	186	9.50	1 / 25	12.23	<b>21.73</b>	0.149	33.01	-11.28
5 MHz	QPSK	2502.5	H	115	186	9.49	1 / 24	13.11	<b>22.60</b>	0.182	33.01	-10.41
	QPSK	2535.0	H	146	184	9.40	1 / 12	12.53	21.93	0.156	33.01	-11.08
	QPSK	2567.5	H	146	182	9.42	1 / 12	12.77	22.18	0.165	33.01	-10.83
	16-QAM	2502.5	H	115	186	9.49	1 / 24	12.35	<b>21.84</b>	0.153	33.01	-11.17
20 MHz	Opposite Pol.	2510.0	V	195	175	9.54	1 / 50	11.92	21.46	0.140	33.01	-11.55
	QPSK (Open)	2510.0	H	149	198	9.51	1 / 50	12.20	21.71	0.148	33.01	-11.30
	WCP	2510.0	H	118	193	9.51	1 / 50	11.54	21.05	0.127	33.01	-11.96

Table 7-2. 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	113	190	9.50	1 / 50	14.90	24.40	0.275	33.01	-8.61
	QPSK	2593.0	H	143	183	9.49	1 / 50	14.32	23.81	0.241	33.01	-9.20
	QPSK	2680.0	H	108	184	9.87	1 / 50	15.68	<b>25.55</b>	0.359	33.01	-7.46
	16-QAM	2680.0	H	108	184	9.87	1 / 50	14.85	<b>24.72</b>	0.297	33.01	-8.29
15 MHz	QPSK	2503.5	H	113	190	9.50	1 / 74	15.08	24.58	0.287	33.01	-8.43
	QPSK	2593.0	H	143	183	9.49	1 / 0	14.43	23.92	0.247	33.01	-9.09
	QPSK	2682.5	H	108	184	9.87	1 / 0	15.73	<b>25.60</b>	0.363	33.01	-7.41
	16-QAM	2682.5	H	108	184	9.87	1 / 37	14.86	<b>24.73</b>	0.297	33.01	-8.28
10 MHz	QPSK	2501.0	H	113	190	9.49	1 / 25	14.78	24.28	0.268	33.01	-8.73
	QPSK	2593.0	H	143	183	9.49	1 / 25	13.95	23.44	0.221	33.01	-9.57
	QPSK	2685.0	H	108	184	9.86	1 / 49	15.77	<b>25.63</b>	0.366	33.01	-7.38
	16-QAM	2685.0	H	108	184	9.86	1 / 49	14.87	<b>24.73</b>	0.297	33.01	-8.28
5 MHz	QPSK	2498.5	H	113	190	9.49	1 / 0	14.33	23.82	0.241	33.01	-9.19
	QPSK	2593.0	H	143	183	9.49	1 / 24	14.26	23.75	0.237	33.01	-9.26
	QPSK	2687.5	H	108	184	9.86	1 / 24	15.72	<b>25.57</b>	0.361	33.01	-7.44
	16-QAM	2687.5	H	108	184	9.86	1 / 12	14.41	<b>24.26</b>	0.267	33.01	-8.75
20 MHz	Opposite Pol.	2680.0	V	143	184	9.51	1 / 50	14.27	23.78	0.239	33.01	-9.23
	QPSK (Open)	2680.0	H	158	208	9.87	1 / 50	15.53	25.40	0.347	33.01	-7.61
	WCP	2680.0	H	124	188	9.87	1 / 50	13.28	23.15	0.207	33.01	-9.86

Table 7-3. EIRP Data (LTE Band 41(PC2))

FCC ID: A3LSMF721U	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]
20 MHz	QPSK	2506.0	H	118	203	9.50	1 / 50	13.05	22.55	0.180	33.01	-10.46
	QPSK	2593.0	H	108	205	9.49	1 / 50	13.04	22.53	0.179	33.01	-10.48
	QPSK	2680.0	H	189	188	9.87	1 / 50	14.23	<b>24.10</b>	0.257	33.01	-8.91
	16-QAM	2680.0	H	189	188	9.87	1 / 50	13.26	23.13	0.206	33.01	-9.88
15 MHz	QPSK	2503.5	H	118	203	9.50	1 / 74	13.11	22.60	0.182	33.01	-10.41
	QPSK	2593.0	H	108	205	9.49	1 / 74	13.47	22.96	0.198	33.01	-10.05
	QPSK	2682.5	H	189	188	9.87	1 / 37	14.13	<b>24.00</b>	0.251	33.01	-9.01
	16-QAM	2682.5	H	189	188	9.87	1 / 37	13.68	23.55	0.226	33.01	-9.46
10 MHz	QPSK	2501.0	H	118	203	9.49	1 / 49	13.17	22.66	0.184	33.01	-10.35
	QPSK	2593.0	H	108	205	9.49	1 / 25	13.30	22.79	0.190	33.01	-10.22
	QPSK	2685.0	H	189	188	9.86	1 / 25	14.25	<b>24.12</b>	0.258	33.01	-8.89
	16-QAM	2685.0	H	189	188	9.86	1 / 25	13.62	23.48	0.223	33.01	-9.53
5 MHz	QPSK	2498.5	H	118	203	9.49	1 / 24	13.91	23.41	0.219	33.01	-9.61
	QPSK	2593.0	H	108	205	9.49	1 / 24	14.33	23.83	0.241	33.01	-9.18
	QPSK	2687.5	H	189	188	9.86	1 / 24	15.10	<b>24.96</b>	0.313	33.01	-8.05
	16-QAM	2687.5	H	189	188	9.86	1 / 24	14.65	24.51	0.282	33.01	-8.50
20 MHz	Opposite Pol.	2680.0	V	146	261	9.51	1 / 50	13.25	22.76	0.189	33.01	-10.25
	QPSK (Open)	2680.0	H	155	187	9.87	1 / 50	13.55	23.42	0.220	33.01	-9.59
	WCP	2680.0	H	130	222	9.87	1 / 50	10.79	20.66	0.116	33.01	-12.35

Table 7-4. 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	H	149	204	10.55	1 / 38	11.61	22.16	0.164	23.98	-1.82
	QPSK	2310.0	H	149	204	10.55	1 / 38	11.63	<b>22.18</b>	0.165	23.98	-1.80
	16-QAM	2310.0	H	149	204	10.55	1 / 38	10.67	21.22	0.132	23.98	-2.76
5 MHz	$\pi/2$ BPSK	2307.5	H	149	204	10.52	1 / 6	11.03	21.55	0.143	23.98	-2.43
	$\pi/2$ BPSK	2310.0	H	149	204	10.55	1 / 6	10.96	21.50	0.141	23.98	-2.47
	$\pi/2$ BPSK	2312.5	H	149	204	10.56	1 / 18	11.63	<b>22.19</b>	0.165	23.98	-1.79
	QPSK	2307.5	H	149	204	10.52	1 / 6	11.26	21.77	0.150	23.98	-2.20
	QPSK	2310.0	H	149	204	10.55	1 / 6	11.35	21.90	0.155	23.98	-2.08
	QPSK	2312.5	H	149	204	10.56	1 / 18	11.59	22.15	0.164	23.98	-1.83
	16-QAM	2312.5	H	149	204	10.56	1 / 18	10.85	21.41	0.138	23.98	-2.57
10 MHz	QPSK (CP-OFDM)	2310.0	H	149	202	10.55	1 / 13	10.21	20.76	0.119	23.98	-3.22
	QPSK (Half)	2310.0	V	192	277	10.37	1 / 38	8.20	18.57	0.072	23.98	-5.41
	Opposite Pol.	2310.0	V	153	310	10.37	1 / 26	11.26	21.63	0.146	23.98	-2.35
	WCP	2310.0	H	117	184	10.55	1 / 26	10.24	20.79	0.120	23.98	-3.19

Table 7-5. EIRP Data (NR Band n30 – ANT B)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-05.A3L	Test Dates: 4/8/2022 - 6/30/2022	EUT Type: Portable Handset	Page 180 of 238

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	$\pi/2$ BPSK	2520.0	H	147	186	9.45	1 / 161	12.51	21.96	0.157	33.01	-11.05
	$\pi/2$ BPSK	2535.0	H	115	188	9.40	1 / 161	12.77	<b>22.17</b>	0.165	33.01	-10.84
	$\pi/2$ BPSK	2550.0	H	149	184	9.37	1 / 161	12.60	21.97	0.157	33.01	-11.04
	QPSK	2520.0	H	147	186	9.45	1 / 161	12.51	21.96	0.157	33.01	-11.05
	QPSK	2535.0	H	115	188	9.40	1 / 161	12.70	22.10	0.162	33.01	-10.91
	QPSK	2550.0	H	149	184	9.37	1 / 161	12.54	21.91	0.155	33.01	-11.10
30 MHz	16-QAM	2535.0	H	115	188	9.40	1 / 108	12.35	21.75	0.150	33.01	-11.26
	$\pi/2$ BPSK	2515.0	H	147	186	9.48	1 / 119	13.18	<b>22.66</b>	0.184	33.01	-10.35
	$\pi/2$ BPSK	2535.0	H	115	188	9.40	1 / 80	13.05	22.45	0.176	33.01	-10.56
	$\pi/2$ BPSK	2555.0	H	149	184	9.40	1 / 119	12.65	22.05	0.160	33.01	-10.96
	QPSK	2515.0	H	147	186	9.48	1 / 119	13.07	22.55	0.180	33.01	-10.46
	QPSK	2535.0	H	115	188	9.40	1 / 80	12.96	22.37	0.172	33.01	-10.64
25 MHz	QPSK	2555.0	H	149	184	9.40	1 / 119	12.68	22.08	0.161	33.01	-10.93
	16-QAM	2535.0	H	115	188	9.40	1 / 80	12.75	22.16	0.164	33.01	-10.85
	$\pi/2$ BPSK	2512.5	H	147	186	9.49	1 / 33	11.66	21.15	0.130	33.01	-11.86
	$\pi/2$ BPSK	2535.0	H	115	188	9.40	1 / 99	12.74	22.14	0.164	33.01	-10.87
	$\pi/2$ BPSK	2557.5	H	149	184	9.42	1 / 99	11.74	21.16	0.131	33.01	-11.85
	QPSK	2512.5	H	147	186	9.49	1 / 33	11.77	21.26	0.134	33.01	-11.75
20 MHz	QPSK	2535.0	H	115	188	9.40	1 / 99	11.66	21.06	0.128	33.01	-11.95
	QPSK	2557.5	H	149	184	9.42	1 / 99	11.96	21.37	0.137	33.01	-11.64
	16-QAM	2535.0	H	115	188	9.40	1 / 99	11.39	20.79	0.120	33.01	-12.22
	$\pi/2$ BPSK	2510.0	H	147	186	9.51	1 / 53	12.33	21.84	0.153	33.01	-11.17
	$\pi/2$ BPSK	2535.0	H	115	188	9.40	1 / 26	12.61	22.01	0.159	33.01	-11.00
	$\pi/2$ BPSK	2560.0	H	149	184	9.43	1 / 53	12.16	21.59	0.144	33.01	-11.42
15 MHz	QPSK	2510.0	H	147	186	9.51	1 / 53	12.67	<b>22.18</b>	0.165	33.01	-10.83
	QPSK	2535.0	H	115	188	9.40	1 / 26	12.56	21.97	0.157	33.01	-11.04
	QPSK	2560.0	H	149	184	9.43	1 / 53	12.34	21.77	0.150	33.01	-11.24
	16-QAM	2535.0	H	115	188	9.40	1 / 26	12.31	21.71	0.148	33.01	-11.30
	$\pi/2$ BPSK	2507.5	H	147	186	9.50	1 / 58	12.42	21.92	0.156	33.01	-11.09
	$\pi/2$ BPSK	2535.0	H	115	188	9.40	1 / 39	11.92	21.33	0.136	33.01	-11.68
10 MHz	$\pi/2$ BPSK	2562.5	H	149	184	9.43	1 / 20	12.55	21.98	0.158	33.01	-11.03
	QPSK	2507.5	H	147	186	9.50	1 / 58	12.70	<b>22.21</b>	0.166	33.01	-10.80
	QPSK	2535.0	H	115	188	9.40	1 / 39	12.13	21.54	0.142	33.01	-11.47
	QPSK	2562.5	H	149	184	9.43	1 / 20	12.35	21.78	0.151	33.01	-11.23
	16-QAM	2562.5	H	149	184	9.43	1 / 20	11.93	21.36	0.137	33.01	-11.65
	$\pi/2$ BPSK	2505.0	H	147	186	9.50	1 / 38	12.79	<b>22.28</b>	0.169	33.01	-10.73
5 MHz	$\pi/2$ BPSK	2535.0	H	115	188	9.40	1 / 13	12.28	21.68	0.147	33.01	-11.33
	$\pi/2$ BPSK	2565.0	H	149	184	9.42	1 / 26	12.64	22.06	0.161	33.01	-10.95
	QPSK	2505.0	H	147	186	9.50	1 / 38	12.60	22.10	0.162	33.01	-10.91
	QPSK	2535.0	H	115	188	9.40	1 / 13	12.32	21.72	0.149	33.01	-11.29
	QPSK	2565.0	H	149	184	9.42	1 / 26	12.47	21.90	0.155	33.01	-11.11
	16-QAM	2535.0	H	115	188	9.40	1 / 13	12.04	21.45	0.139	33.01	-11.56
40 MHz	$\pi/2$ BPSK	2502.5	H	147	186	9.49	1 / 18	11.95	21.45	0.140	33.01	-11.56
	$\pi/2$ BPSK	2535.0	H	115	188	9.40	1 / 18	12.08	21.49	0.141	33.01	-11.52
	$\pi/2$ BPSK	2567.5	H	149	184	9.42	1 / 6	12.25	<b>21.66</b>	0.147	33.01	-11.35
	QPSK	2502.5	H	147	186	9.49	1 / 18	11.99	21.49	0.141	33.01	-11.52
	QPSK	2535.0	H	115	188	9.40	1 / 18	12.22	21.62	0.145	33.01	-11.39
	QPSK	2567.5	H	149	184	9.42	1 / 6	12.07	21.49	0.141	33.01	-11.52
40 MHz	16-QAM	2535.0	H	115	188	9.40	1 / 18	11.70	21.11	0.129	33.01	-11.90
	QPSK (CP-OFDM)	2535.0	H	115	188	9.40	1 / 161	11.02	20.42	0.110	33.01	-12.59
	QPSK (Open)	2535.0	H	175	191	9.40	1 / 161	12.42	21.82	0.152	33.01	-11.19
	QPSK (Opposite Pol.)	2535.0	V	153	174	9.49	1 / 161	11.52	21.01	0.126	33.01	-12.00
40 MHz	QPSK (WCP)	2535.0	H	153	213	9.40	1 / 108	9.12	18.52	0.071	33.01	-14.49

Table 7-6. EIRP Data (NR Band n7 – ANT B)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-05.A3L	Test Dates: 4/8/2022 - 6/30/2022	EUT Type: Portable Handset	Page 181 of 238

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	2546.0	H	133	197	9.38	1 / 136	16.53	25.91	0.390	33.01	-7.10
	$\pi/2$ BPSK	2593.0	H	153	194	9.49	1 / 136	17.71	<b>27.20</b>	0.525	33.01	-5.81
	$\pi/2$ BPSK	2640.0	H	112	192	9.89	1 / 68	17.07	26.96	0.497	33.01	-6.05
	QPSK	2546.0	H	133	197	9.38	1 / 136	16.04	25.42	0.348	33.01	-7.59
	QPSK	2593.0	H	153	194	9.49	1 / 136	17.20	26.69	0.467	33.01	-6.32
	QPSK	2640.0	H	112	192	9.89	1 / 68	17.14	27.03	0.505	33.01	-5.98
90 MHz	16-QAM	2640.0	H	112	192	9.89	1 / 68	16.18	26.07	0.405	33.01	-6.94
	$\pi/2$ BPSK	2541.0	H	133	197	9.39	1 / 122	16.03	25.42	0.348	33.01	-7.59
	$\pi/2$ BPSK	2593.0	H	153	194	9.49	1 / 122	17.25	26.74	0.472	33.01	-6.27
	$\pi/2$ BPSK	2645.0	H	112	192	9.91	1 / 122	16.35	26.27	0.423	33.01	-6.74
	QPSK	2541.0	H	133	197	9.39	1 / 122	15.67	25.06	0.320	33.01	-7.96
	QPSK	2593.0	H	153	194	9.49	1 / 122	16.85	26.34	0.430	33.01	-6.67
80 MHz	QPSK	2645.0	H	112	192	9.91	1 / 122	16.96	<b>26.87</b>	0.487	33.01	-6.14
	16-QAM	2645.0	H	112	192	9.91	1 / 122	16.23	26.14	0.412	33.01	-6.87
	$\pi/2$ BPSK	2536.0	H	133	197	9.40	1 / 108	16.16	25.56	0.360	33.01	-7.45
	$\pi/2$ BPSK	2593.0	H	153	194	9.49	1 / 108	17.54	<b>27.03</b>	0.505	33.01	-5.98
	$\pi/2$ BPSK	2650.0	H	112	192	9.93	1 / 108	16.40	26.33	0.430	33.01	-6.68
	QPSK	2536.0	H	133	197	9.40	1 / 108	15.66	25.06	0.321	33.01	-7.95
70 MHz	QPSK	2593.0	H	153	194	9.49	1 / 108	16.84	26.33	0.430	33.01	-6.68
	QPSK	2650.0	H	112	192	9.93	1 / 108	16.89	26.82	0.481	33.01	-6.19
	16-QAM	2650.0	H	112	192	9.93	1 / 108	15.99	25.93	0.391	33.01	-7.08
	$\pi/2$ BPSK	2536.0	H	133	197	9.40	1 / 108	16.33	25.73	0.374	33.01	-7.29
	$\pi/2$ BPSK	2593.0	H	153	194	9.49	1 / 108	17.26	<b>26.75</b>	0.473	33.01	-6.26
	$\pi/2$ BPSK	2655.0	H	112	192	9.93	1 / 108	16.43	26.36	0.433	33.01	-6.65
60 MHz	QPSK	2531.0	H	133	197	9.40	1 / 108	15.84	25.24	0.334	33.01	-7.77
	QPSK	2593.0	H	153	194	9.49	1 / 108	16.72	26.21	0.418	33.01	-6.80
	QPSK	2655.0	H	112	192	9.93	1 / 108	16.52	26.46	0.442	33.01	-6.55
	16-QAM	2593.0	H	153	194	9.49	1 / 108	16.35	25.84	0.384	33.01	-7.17
	$\pi/2$ BPSK	2526.0	H	133	197	9.43	1 / 81	15.99	25.42	0.349	33.01	-7.59
	$\pi/2$ BPSK	2593.0	H	153	194	9.49	1 / 81	17.34	26.83	0.482	33.01	-6.18
50 MHz	$\pi/2$ BPSK	2660.0	H	112	192	9.85	1 / 40	16.96	26.81	0.480	33.01	-6.20
	QPSK	2526.0	H	133	197	9.43	1 / 81	15.81	25.24	0.334	33.01	-7.77
	QPSK	2593.0	H	153	194	9.49	1 / 81	17.04	26.53	0.450	33.01	-6.48
	QPSK	2660.0	H	112	192	9.85	1 / 40	17.07	<b>26.92</b>	0.492	33.01	-6.09
	16-QAM	2660.0	H	112	192	9.85	1 / 40	16.26	26.11	0.408	33.01	-6.90
	$\pi/2$ BPSK	2521.0	H	133	197	9.45	1 / 99	16.57	26.02	0.400	33.01	-6.99
40 MHz	$\pi/2$ BPSK	2593.0	H	153	194	9.49	1 / 99	17.81	<b>27.30</b>	0.537	33.01	-5.71
	$\pi/2$ BPSK	2665.0	H	112	192	9.84	1 / 99	17.16	26.99	0.500	33.01	-6.02
	QPSK	2521.0	H	133	197	9.45	1 / 66	15.85	25.30	0.339	33.01	-7.71
	QPSK	2593.0	H	153	194	9.49	1 / 66	17.06	26.55	0.452	33.01	-6.46
	QPSK	2665.0	H	112	192	9.84	1 / 66	16.97	26.80	0.479	33.01	-6.21
	16-QAM	2665.0	H	112	192	9.84	1 / 99	16.31	26.15	0.412	33.01	-6.86
30 MHz	$\pi/2$ BPSK	2516.0	H	133	197	9.48	1 / 79	16.71	26.19	0.416	33.01	-6.82
	$\pi/2$ BPSK	2593.0	H	153	194	9.49	1 / 79	17.92	<b>27.41</b>	0.551	33.01	-5.60
	$\pi/2$ BPSK	2670.0	H	112	192	9.82	1 / 79	17.30	27.12	0.516	33.01	-5.89
	QPSK	2516.0	H	133	197	9.48	1 / 53	15.82	25.30	0.339	33.01	-7.71
	QPSK	2593.0	H	153	194	9.49	1 / 53	17.03	26.52	0.449	33.01	-6.49
	QPSK	2670.0	H	112	192	9.82	1 / 79	16.86	26.69	0.466	33.01	-6.32
20 MHz	16-QAM	2670.0	H	112	192	9.82	1 / 79	16.50	26.32	0.429	33.01	-6.69
	$\pi/2$ BPSK	2511.0	H	133	197	9.50	1 / 58	16.14	25.64	0.367	33.01	-7.37
	$\pi/2$ BPSK	2593.0	H	153	194	9.49	1 / 39	17.54	<b>27.03</b>	0.505	33.01	-5.98
	$\pi/2$ BPSK	2675.0	H	112	192	9.85	1 / 39	16.59	26.43	0.440	33.01	-6.58
	QPSK	2511.0	H	133	197	9.50	1 / 39	15.76	25.26	0.336	33.01	-7.75
	QPSK	2593.0	H	153	194	9.49	1 / 39	17.03	26.53	0.449	33.01	-6.49
100 MHz	QPSK	2675.0	H	112	192	9.85	1 / 39	16.88	26.72	0.470	33.01	-6.29
	16-QAM	2675.0	H	112	192	9.85	1 / 39	16.24	26.09	0.406	33.01	-6.92
	$\pi/2$ BPSK	2506.0	H	133	197	9.50	1 / 25	16.30	25.80	0.380	33.01	-7.21
	$\pi/2$ BPSK	2593.0	H	153	194	9.49	1 / 25	17.71	<b>27.20</b>	0.525	33.01	-5.81
	$\pi/2$ BPSK	2680.0	H	112	192	9.87	1 / 25	16.91	26.78	0.477	33.01	-6.23
	QPSK	2506.0	H	133	197	9.50	1 / 25	15.93	25.43	0.349	33.01	-7.58
100 MHz	QPSK	2593.0	H	153	194	9.49	1 / 204	16.85	26.34	0.431	33.01	-6.67
	QPSK (CP-OFDM)	2593.0	H	153	195	9.49	1 / 204	15.97	25.46	0.352	33.01	-7.55
	QPSK (Closed)	2593.0	H	112	297	9.49	1 / 204	17.30	26.76	0.474	33.01	-6.25
	QPSK (Opposite Pol.)	2593.0	V	231	260	9.46	1 / 204	17.30	26.76	0.474	33.01	-6.25
100 MHz	QPSK (WCP)	2593.0	H	188	2	9.49	1 / 136	9.66	19.15	0.082	33.01	-13.86

Table 7-7. EIRP Data (NR Band n41 – ANT 1)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-05.A3L	Test Dates: 4/8/2022 - 6/30/2022	EUT Type: Portable Handset	Page 182 of 238

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	130	195	10.55	1 / 38	11.84	<b>22.39</b>	0.173	23.98	-1.59
	QPSK	2310.0	H	130	195	10.55	1 / 38	11.83	22.38	0.173	23.98	-1.60
	16-QAM	2310.0	H	130	195	10.55	1 / 38	10.87	21.42	0.139	23.98	-2.56
5 MHz	$\pi/2$ BPSK	2307.5	H	130	195	10.52	1 / 6	11.62	22.14	0.164	23.98	-1.84
	$\pi/2$ BPSK	2310.0	H	130	195	10.55	1 / 6	11.60	<b>22.14</b>	0.164	23.98	-1.84
	$\pi/2$ BPSK	2312.5	H	130	195	10.56	1 / 6	11.43	21.99	0.158	23.98	-1.99
	QPSK	2307.5	H	130	195	10.52	1 / 6	11.51	22.03	0.160	23.98	-1.95
	QPSK	2310.0	H	130	195	10.55	1 / 6	11.48	22.03	0.159	23.98	-1.95
	QPSK	2312.5	H	130	195	10.56	1 / 6	11.39	21.95	0.157	23.98	-2.03
	16-QAM	2310.0	H	130	195	10.55	1 / 6	10.70	21.25	0.133	23.98	-2.73
10 MHz	QPSK (CP-OFDM)	2310.0	H	130	195	10.55	1 / 38	10.40	20.95	0.124	23.98	-3.03
	QPSK (Half)	2310.0	H	172	300	10.55	1 / 38	9.23	19.78	0.095	23.98	-4.20
	Opposite Pol.	2310.0	V	310	270	10.37	1 / 26	10.80	21.17	0.131	23.98	-2.81
	WCP	2310.0	H	277	41	10.55	1 / 38	4.84	15.39	0.035	23.98	-8.59

Table 7-8. EIRP Data (NR Band n30 – ANT I)

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	2546.0	H	103	211	9.38	1 / 204	7.87	17.25	0.053	33.01	-15.76
	$\pi/2$ BPSK	2593.0	H	102	201	9.49	1 / 68	7.69	17.18	0.052	33.01	-15.83
	$\pi/2$ BPSK	2640.0	H	103	208	9.89	1 / 204	8.90	18.79	0.076	33.01	-14.22
	QPSK	2546.0	H	103	211	9.38	1 / 204	8.22	17.60	0.058	33.01	-15.41
	QPSK	2593.0	H	102	201	9.49	1 / 68	6.88	16.37	0.043	33.01	-16.64
	QPSK	2640.0	H	103	208	9.89	1 / 204	9.19	<b>19.08</b>	0.081	33.01	-13.93

Table 7-9. EIRP Data (NR Band n41- 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	109	293	9.35	1 / 68	6.61	15.96	0.039	33.01	-17.05
	$\pi/2$ BPSK	2593.0	V	117	280	9.46	1 / 136	6.90	<b>16.36</b>	0.043	33.01	-16.65
	$\pi/2$ BPSK	2640.0	V	104	308	9.50	1 / 204	4.81	14.31	0.027	33.01	-18.70
	QPSK	2550.0	V	109	293	9.35	1 / 68	6.42	15.77	0.038	33.01	-17.24
	QPSK	2593.0	V	117	280	9.46	1 / 136	6.25	15.71	0.037	33.01	-17.30
	QPSK	2640.0	V	104	308	9.50	1 / 204	4.69	14.19	0.026	33.01	-18.82

Table 7-10. EIRP Data (NR Band n41 – ANT F)

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	142	38	9.37	1 / 204	-3.54	5.83	0.004	33.01	-27.18
	$\pi/2$ BPSK	2593.0	H	139	33	9.49	1 / 204	-5.60	3.89	0.002	33.01	-29.12
	$\pi/2$ BPSK	2640.0	H	137	38	9.89	1 / 204	-1.41	<b>8.48</b>	0.007	33.01	-24.53
	QPSK	2550.0	H	142	38	9.37	1 / 204	-3.74	5.63	0.004	33.01	-27.38
	QPSK	2593.0	H	139	33	9.49	1 / 204	-5.57	3.92	0.002	33.01	-29.09
	QPSK	2640.0	H	137	38	9.89	1 / 204	-1.63	8.26	0.007	33.01	-24.75

Table 7-11. EIRP Data (NR Band n41 – ANT C)

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## 7.7 Radiated Spurious Emissions Measurements

### Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) 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

ANSI C63.26-2015 – Section 5.5.4

### Test Settings

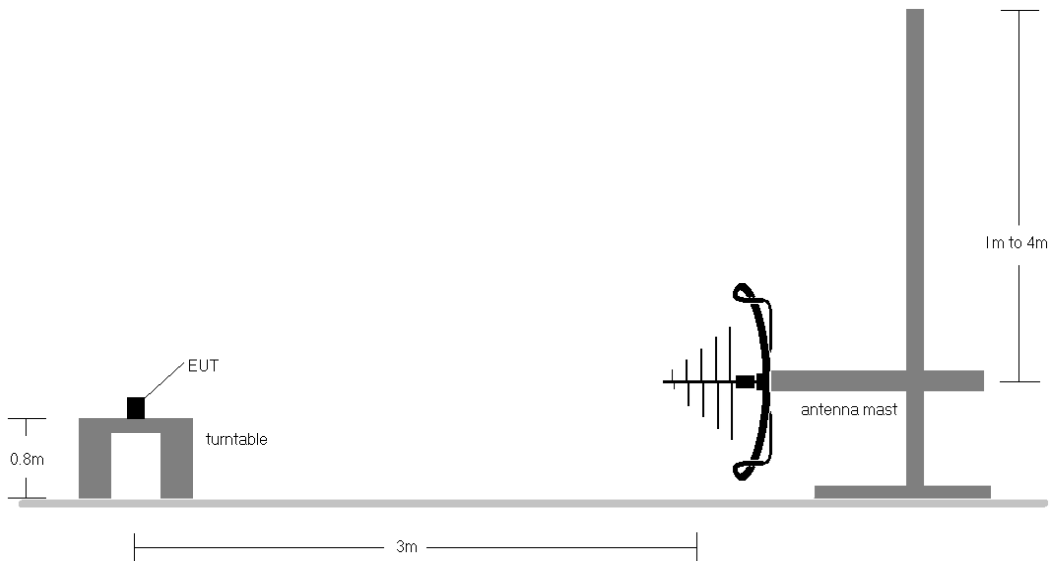
1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW  $\geq 3 \times$  RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $\geq 2 \times$  span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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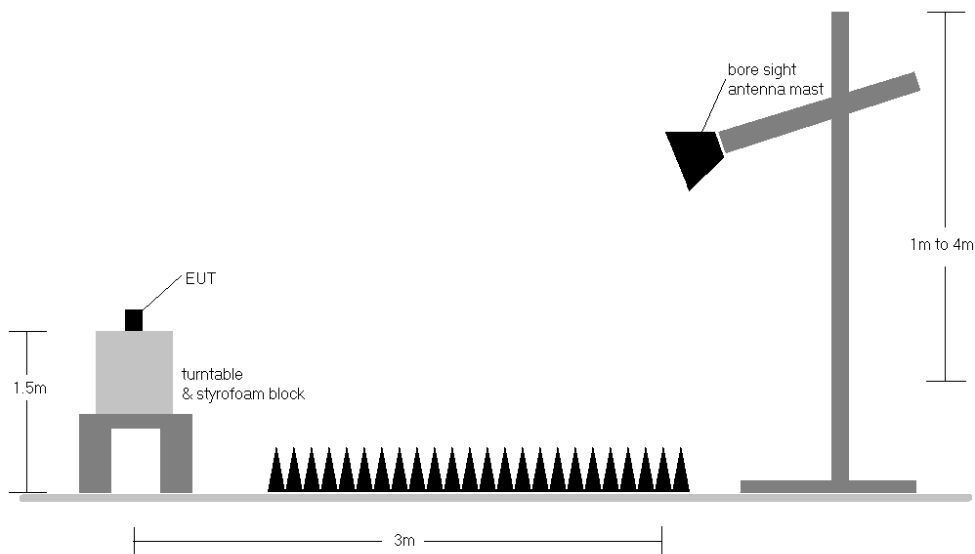
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## Test Setup

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



**Figure 7-6. Test Instrument & Measurement Setup < 1GHz**



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

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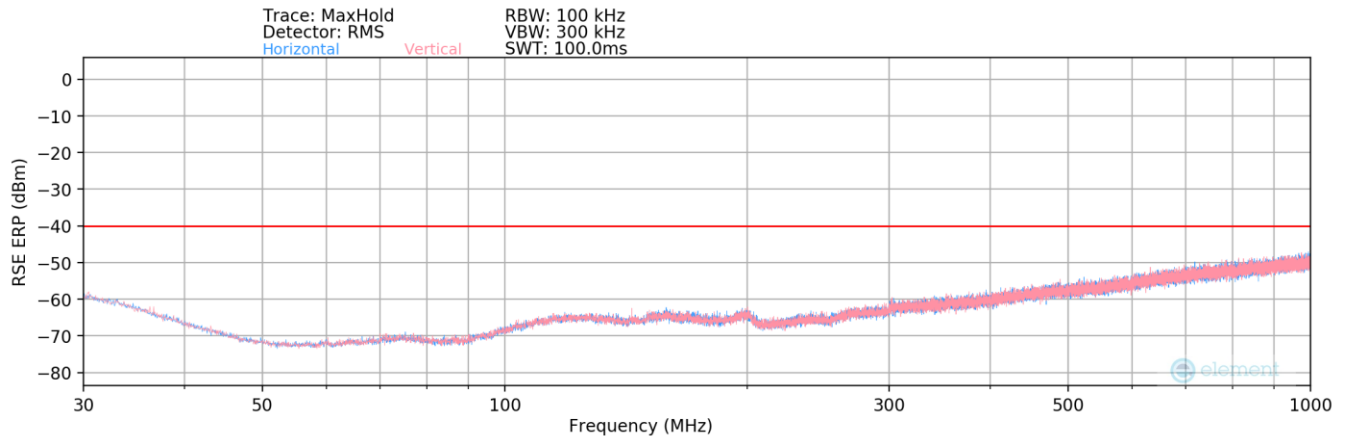
## Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - a)  $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b)  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$ ; 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 emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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## LTE Band 30



Plot 7-304. Radiated Spurious Plot 30MHz – 1GHz (LTE Band 30) – Open

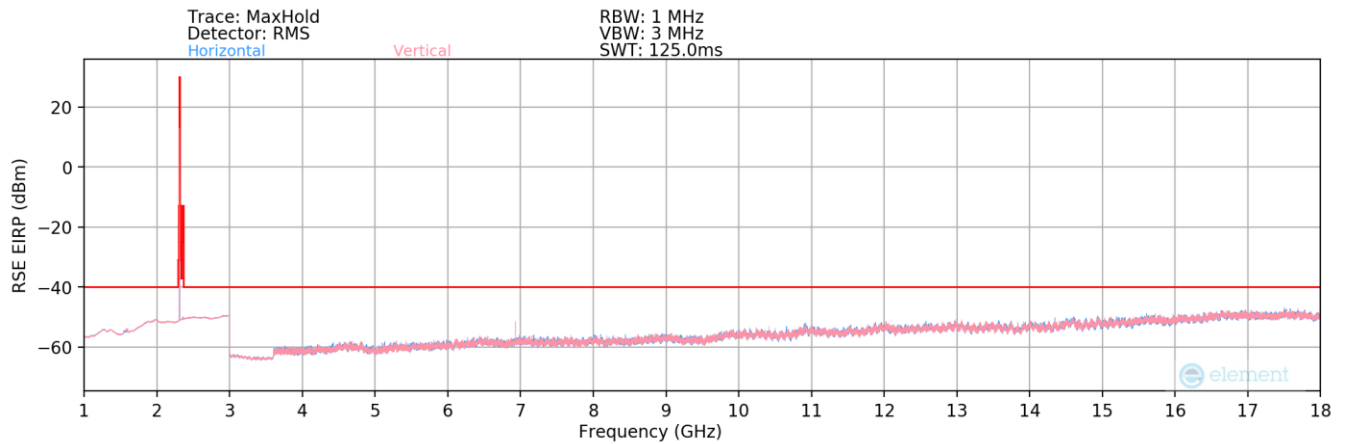
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
79.3	V	-	-	-90.96	14.50	30.54	-66.86	-40.00	-26.86
190.5	V	-	-	-90.35	18.60	35.25	-62.15	-40.00	-22.15
318.2	V	-	-	-90.07	21.67	38.60	-58.80	-40.00	-18.80

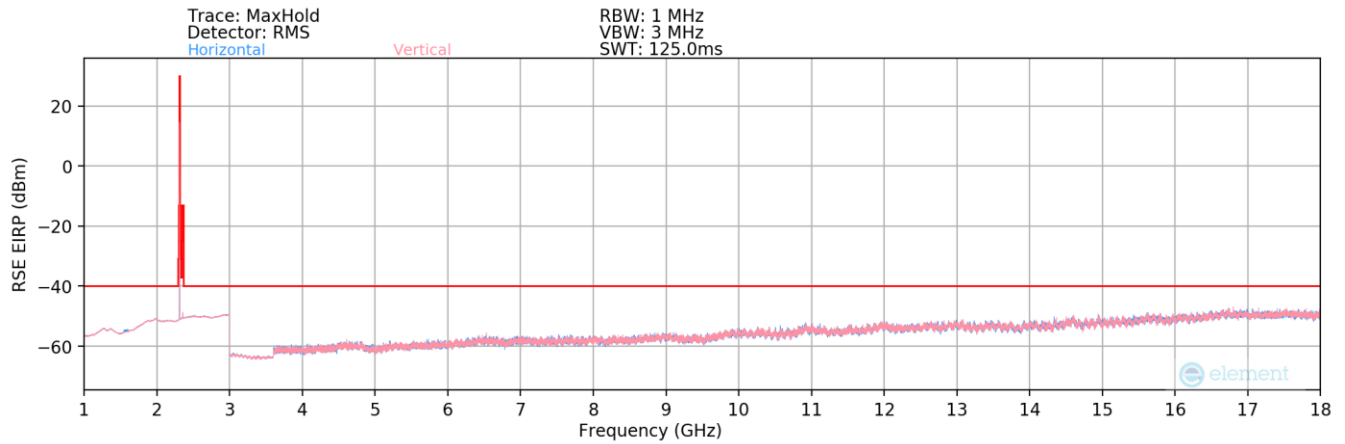
Table 7-12. Radiated Spurious Data 30MHz – 1GHz (LTE Band 30) – Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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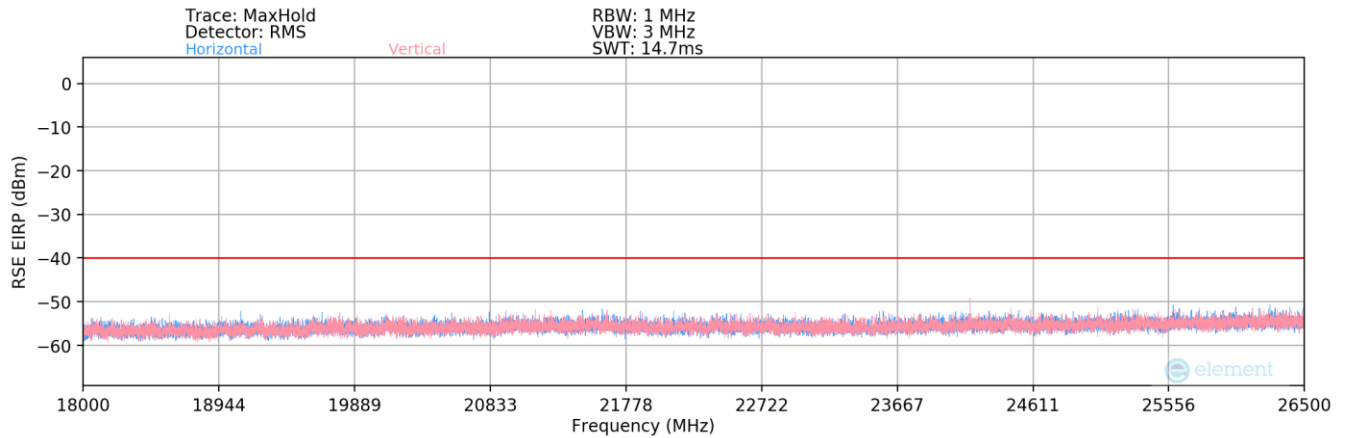
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Plot 7-305. Radiated Spurious Plot (LTE Band 30) – Open



Plot 7-306. Radiated Spurious Plot (LTE Band 30) – Closed



Plot 7-307. Radiated Spurious Plot (LTE Band 30) – Open

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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]
4620.0	V	-	-	-78.59	4.36	32.77	-62.49	-40.00	-22.49
6930.0	V	140	35	-79.19	7.75	35.56	-59.70	-40.00	-19.70
9240.0	V	-	-	-80.22	8.79	35.57	-59.69	-40.00	-19.69
11550.0	V	-	-	-81.84	12.95	38.11	-57.14	-40.00	-17.14

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

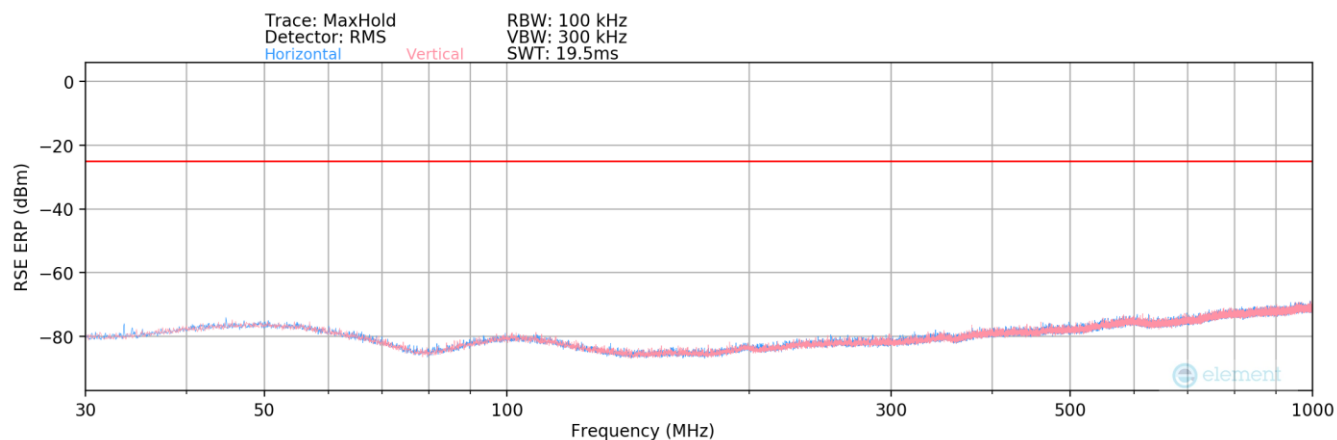
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

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]
4620.0	V	-	-	-78.57	4.36	32.79	-62.47	-40.00	-22.47
6930.0	V	-	-	-79.90	7.75	34.85	-60.41	-40.00	-20.41
9240.0	V	-	-	-80.18	8.79	35.61	-59.65	-40.00	-19.65

Table 7-14. Radiated Spurious Data With WCP (LTE Band 30 – Mid Channel) – Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## LTE Band 7



Plot 7-308. Radiated Spurious Plot 30MHz – 1GHz (LTE Band 7) – Half Open

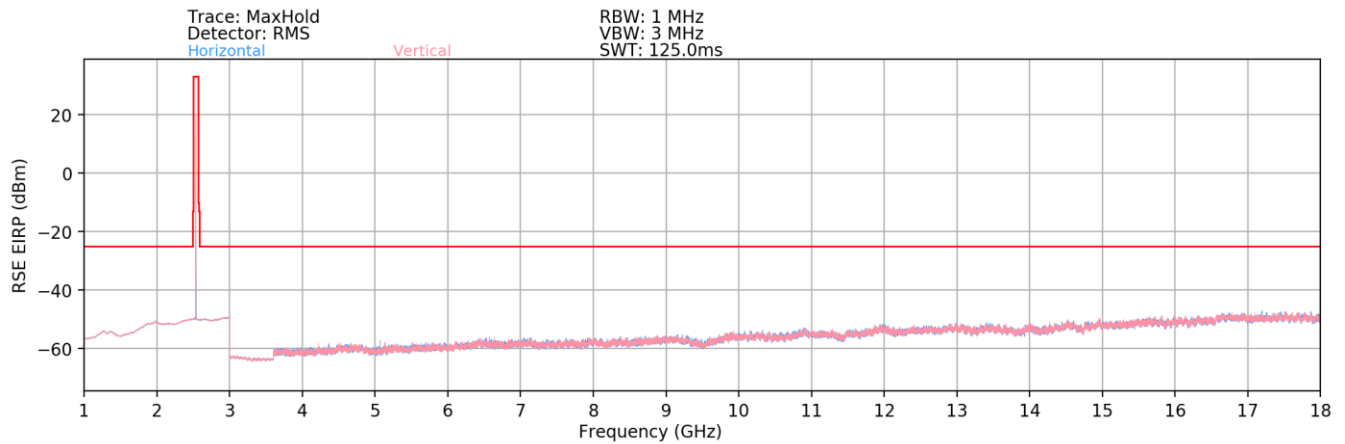
Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
507.0	H	-	-	-74.89	-9.65	22.46	-74.95	-25.00	-49.95
633.8	H	-	-	-74.11	-7.51	25.38	-72.03	-25.00	-47.03
845.0	H	-	-	-70.31	-4.05	32.64	-64.76	-25.00	-39.76

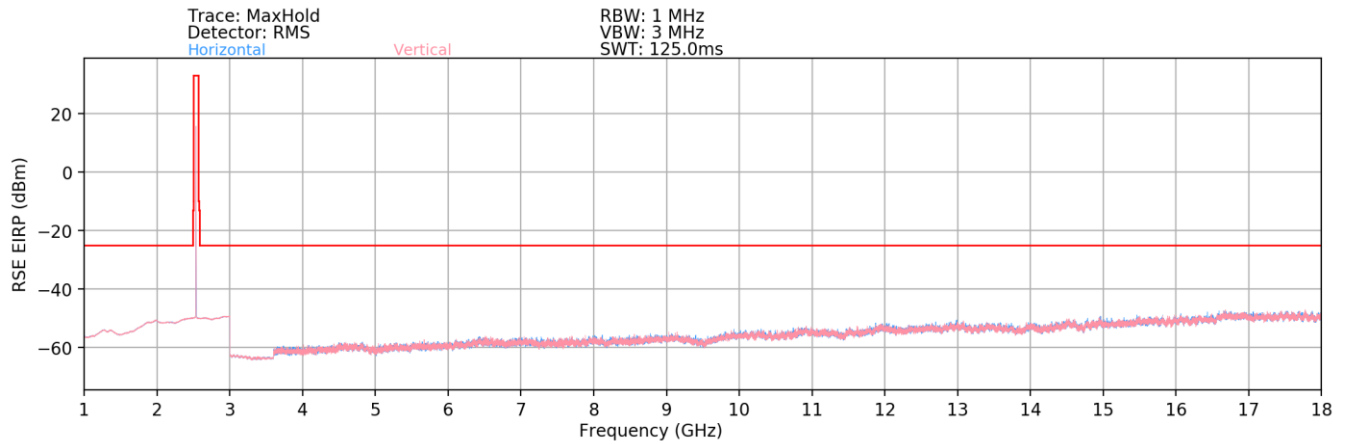
Table 7-15. Radiated Spurious Data (LTE Band 7)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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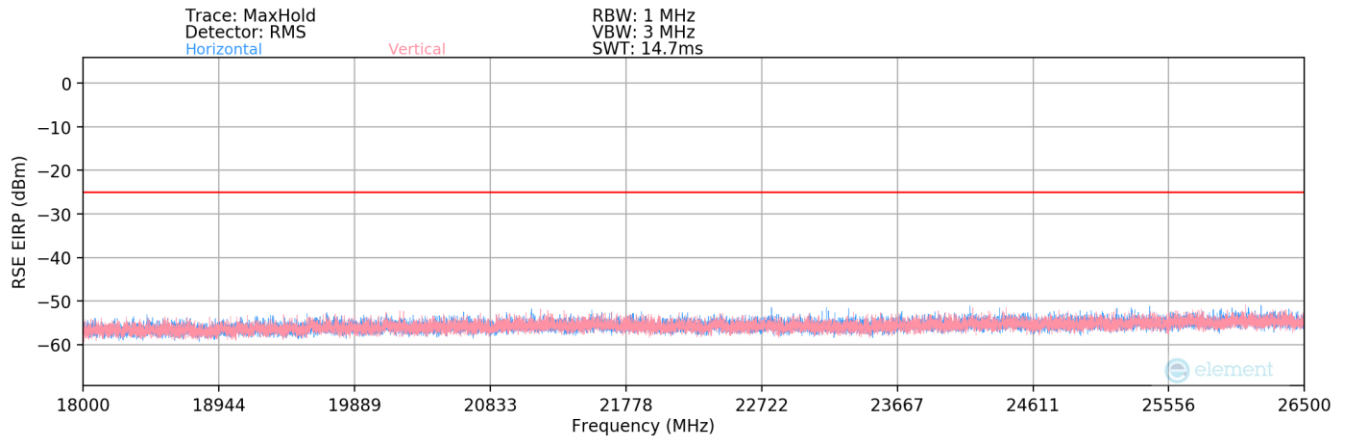
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**Plot 7-309. Radiated Spurious Plot (LTE Band 7) – Half Open**



**Plot 7-310. Radiated Spurious Plot (LTE Band 7) – Closed**



**Plot 7-311. Radiated Spurious Plot (LTE Band 7) – Half Open**

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
5020.0	H	256	320	-74.52	4.51	36.99	-58.26	-25.00	-33.26
7530.0	H	293	59	-75.32	7.87	39.55	-55.71	-25.00	-30.71
10040.0	H	-	-	-80.21	10.41	37.20	-58.06	-25.00	-33.06
12550.0	H	-	-	-81.83	14.06	39.23	-56.03	-25.00	-31.03
15060.0	H	-	-	-82.01	15.50	40.49	-54.77	-25.00	-29.77

Table 7-16. Radiated Spurious Data (LTE Band 7 – Low Channel) – Half Open

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]
5070.0	H	247	9	-71.80	4.71	39.91	-55.35	-25.00	-30.35
7605.0	H	395	48	-75.95	8.19	39.24	-56.02	-25.00	-31.02
10140.0	H	-	-	-80.61	11.14	37.53	-57.72	-25.00	-32.72
12675.0	H	-	-	-81.40	13.95	39.55	-55.70	-25.00	-30.70
15210.0	H	-	-	-81.80	16.17	41.37	-53.89	-25.00	-28.89

Table 7-17. Radiated Spurious Data (LTE Band 7 – Mid Channel) – Half Open

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]
5120.0	H	289	19	-72.89	4.88	38.99	-56.26	-25.00	-31.26
7680.0	H	304	53	-76.73	7.54	37.81	-57.45	-25.00	-32.45
10240.0	H	-	-	-80.93	11.51	37.58	-57.68	-25.00	-32.68
12800.0	H	-	-	-81.75	14.21	39.46	-55.80	-25.00	-30.80
15360.0	H	-	-	-81.83	15.92	41.09	-54.16	-25.00	-29.16

Table 7-18. Radiated Spurious Data (LTE Band 7 – High Channel) – Half Open

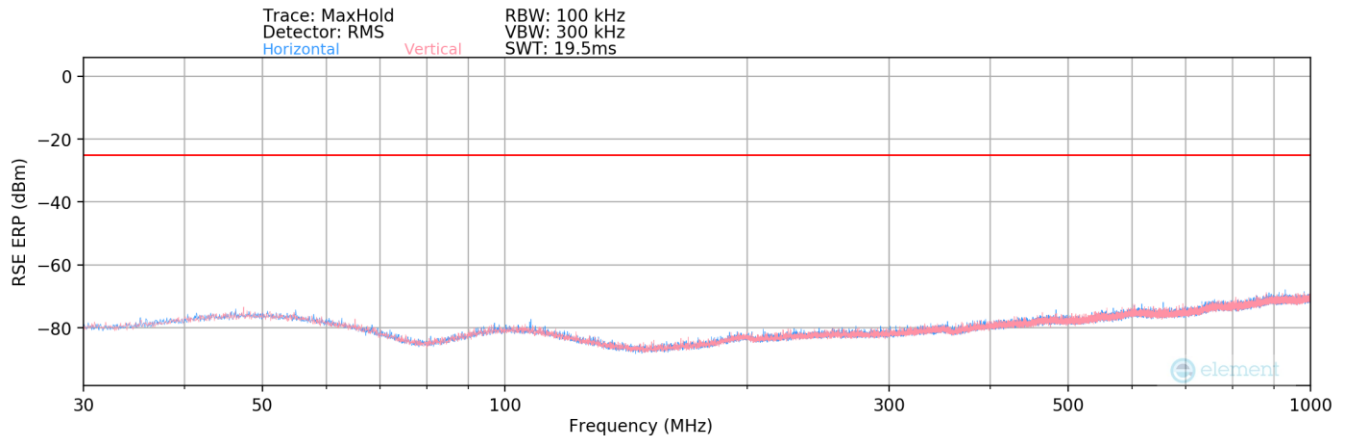
Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50

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]
5070.0	H	271	286	-74.57	4.71	37.14	-58.12	-25.00	-33.12
7605.0	H	171	83	-77.69	8.19	37.50	-57.76	-25.00	-32.76
10140.0	H	-	-	-80.89	11.14	37.25	-58.00	-25.00	-33.00
12675.0	H	-	-	-81.38	13.95	39.57	-55.68	-25.00	-30.68
15210.0	H	-	-	-81.79	16.17	41.38	-53.88	-25.00	-28.88

Table 7-19. Radiated Spurious Data with WCP (LTE Band 7) – Half Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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## LTE Band 41(PC2)



Plot 7-312. Radiated Spurious Plot 30MHz – 1GHz (LTE Band 41(PC2)) – Half Open

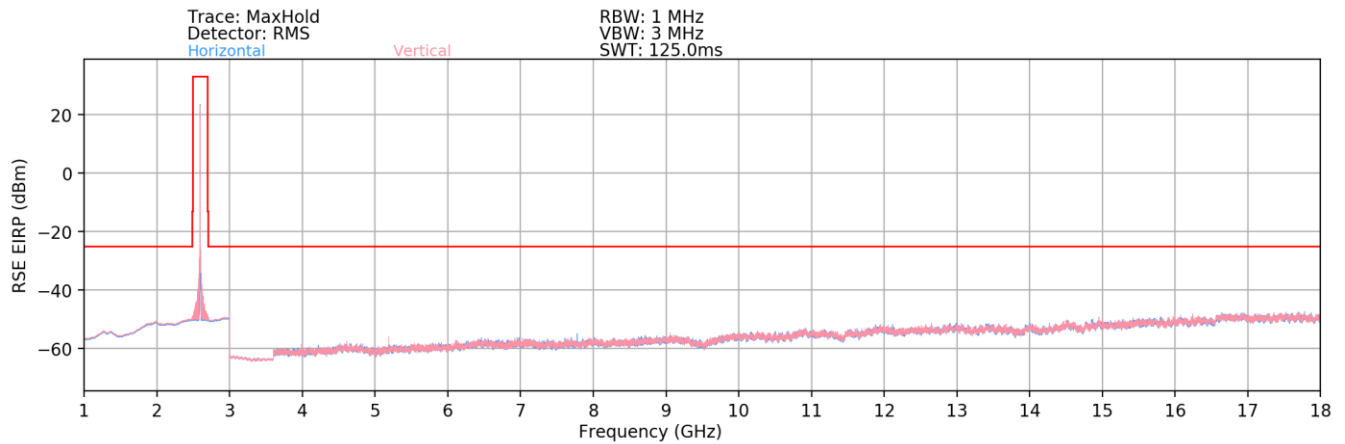
Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
501.2	H	-	-	-75.01	-9.69	22.30	-75.11	-25.00	-50.11
626.5	H	-	-	-73.58	-7.66	25.76	-71.65	-25.00	-46.65
835.3	H	-	-	-69.28	-4.39	33.33	-64.08	-25.00	-39.08

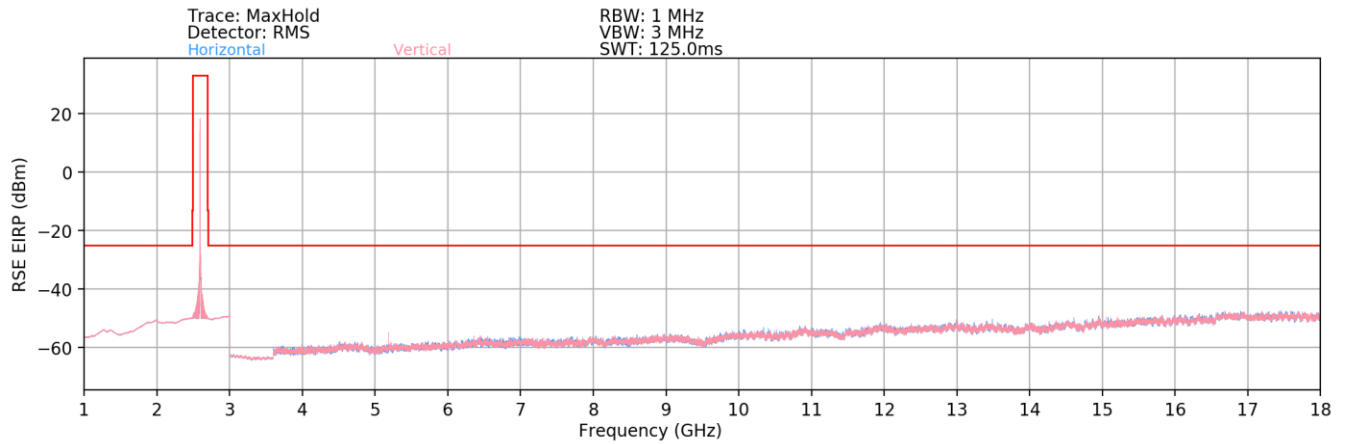
Table 7-20. Radiated Spurious Data 30MHz – 1GHz (LTE Band 41(PC2)) – Half Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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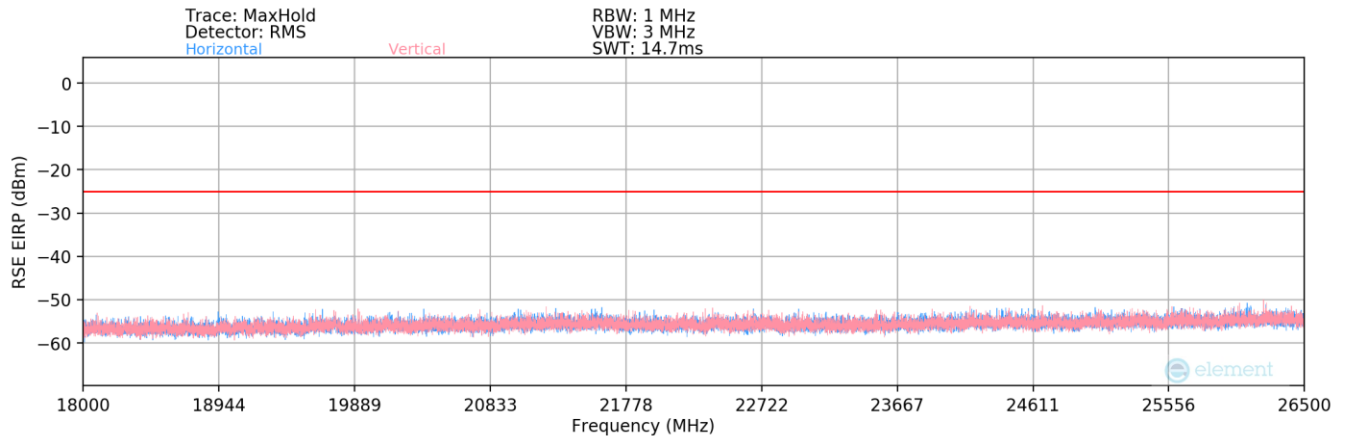
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**Plot 7-313. Radiated Spurious Plot (LTE Band 41(PC2)) – Half Open**



**Plot 7-314. Radiated Spurious Plot (LTE Band 41(PC2)) - Closed**



**Plot 7-315. Radiated Spurious Plot (LTE Band 41(PC2)) – Half Open**

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
5012.0	H	372	8	-70.81	4.32	40.51	-54.74	-25.00	-29.74
7518.0	H	296	53	-72.06	7.81	42.75	-52.51	-25.00	-27.51
10024.0	H	-	-	-77.75	10.39	39.64	-55.62	-25.00	-30.62
12530.0	H	-	-	-79.20	13.85	41.65	-53.61	-25.00	-28.61
15036.0	H	-	-	-79.06	15.63	43.57	-51.68	-25.00	-26.68

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

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]
5186.0	H	344	9	-68.91	5.18	43.27	-51.99	-25.00	-26.99
7779.0	H	335	82	-74.20	7.47	40.27	-54.99	-25.00	-29.99
10372.0	H	-	-	-78.96	11.18	39.22	-56.03	-25.00	-31.03
12965.0	H	-	-	-78.76	14.27	42.51	-52.74	-25.00	-27.74
15558.0	H	-	-	-78.53	16.00	44.47	-50.79	-25.00	-25.79

Table 7-22. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel) – Half Open

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]
5360.0	H	292	11	-72.45	5.17	39.72	-55.54	-25.00	-30.54
8040.0	H	270	77	-74.61	8.11	40.50	-54.76	-25.00	-29.76
10720.0	H	-	-	-78.40	11.72	40.32	-54.94	-25.00	-29.94
13400.0	H	-	-	-78.72	14.19	42.47	-52.79	-25.00	-27.79
16080.0	H	-	-	-78.91	17.01	45.10	-50.16	-25.00	-25.16

Table 7-23. Radiated Spurious Data (LTE Band 41(PC2) – High Channel) – Half Open

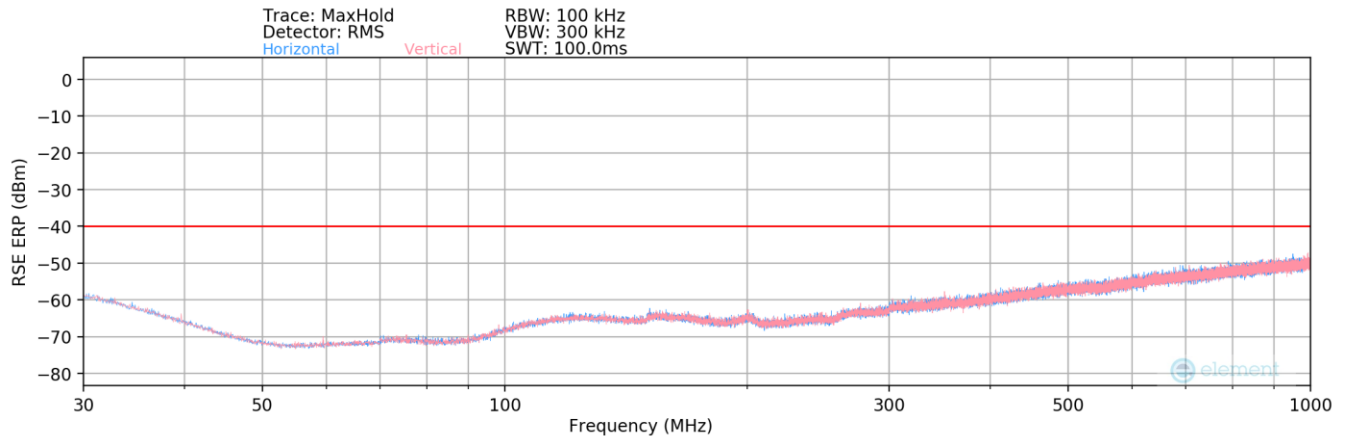
Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

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]
5186.0	H	300	280	-70.67	5.18	41.51	-53.75	-25.00	-28.75
7779.0	H	195	155	-76.29	7.47	38.18	-57.08	-25.00	-32.08
10372.0	H	-	-	-78.68	11.18	39.50	-55.75	-25.00	-30.75
12965.0	H	-	-	-78.73	14.27	42.54	-52.71	-25.00	-27.71
15558.0	H	-	-	-78.48	16.00	44.52	-50.74	-25.00	-25.74

Table 7-24. Radiated Spurious Data with WCP (LTE Band 41(PC2)) – Half Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-05.A3L	Test Dates: 4/8/2022 - 6/30/2022	EUT Type: Portable Handset	Page 195 of 238

## NR Band n30 ANT B



Plot 7-316. Radiated Spurious Plot 30MHz – 1GHz (NR Band n30) – Open

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 26
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
462.0	V	-	-	-89.05	24.81	42.76	-54.65	-40.00	-14.65
577.5	V	-	-	-89.69	26.64	43.95	-53.46	-40.00	-13.46
770.0	V	-	-	-85.98	29.06	50.08	-47.33	-40.00	-7.33

Table 7-25. Radiated Spurious Data 30MHz – 1GHz (NR Band n30) – Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-05.A3L	Test Dates: 4/8/2022 - 6/30/2022	EUT Type: Portable Handset	Page 196 of 238

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