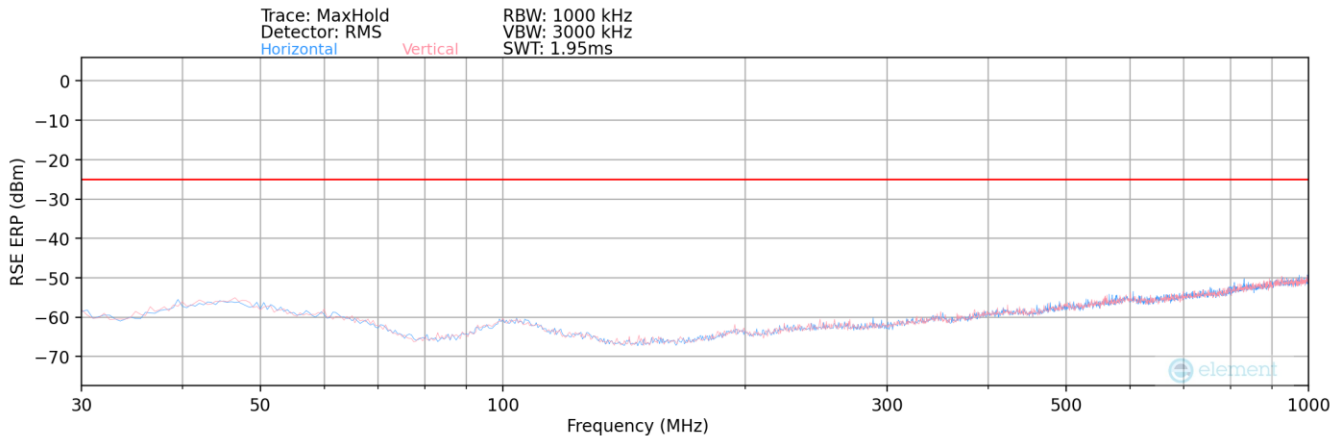
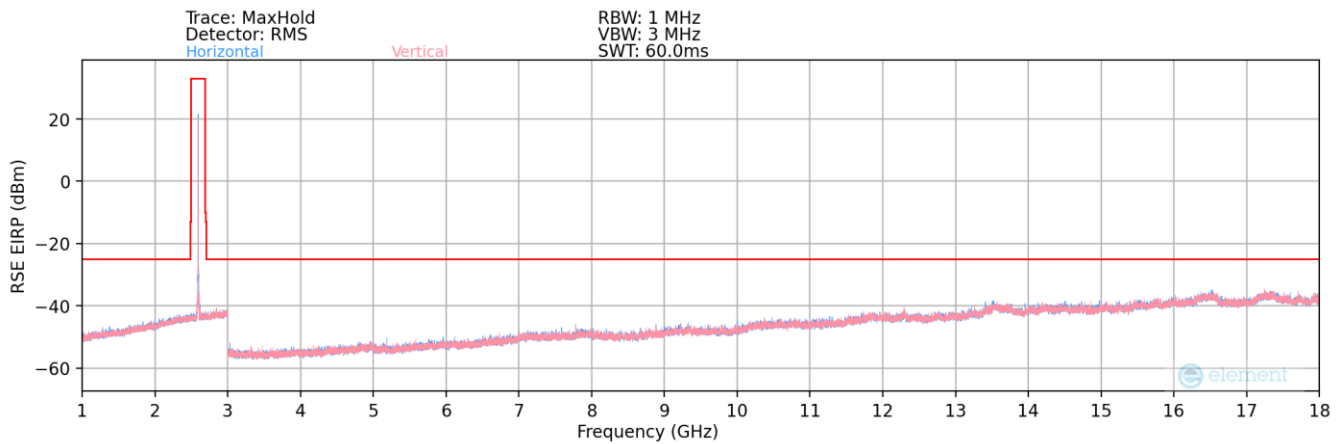


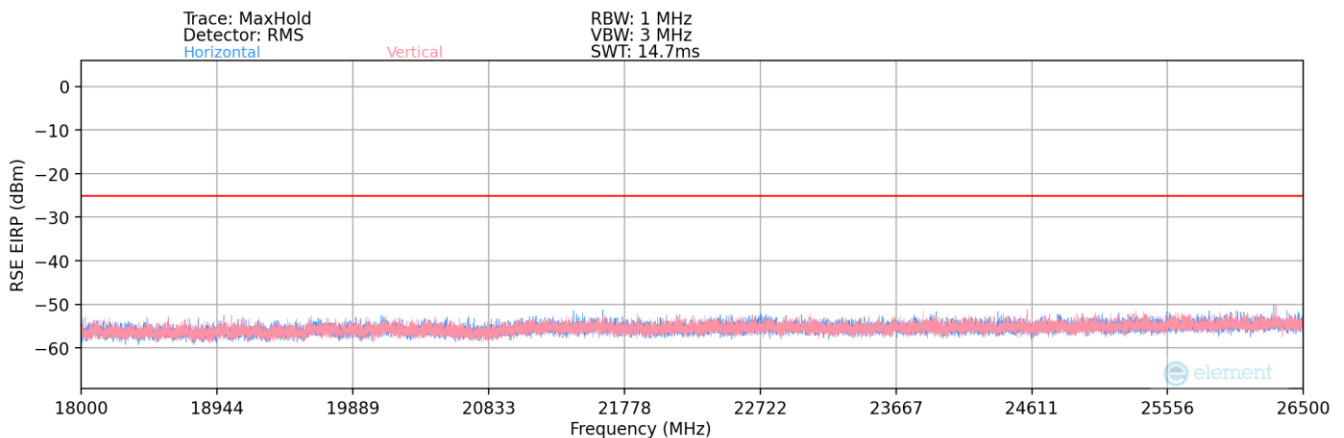
LTE Band 41(PC3)/38 – Ant2



Plot 7-269. Radiated Spurious Plot (LTE Band 41(PC3)/38 – Below 1GHz – Ant2)



Plot 7-270. Radiated Spurious Plot (LTE Band 41(PC3)/38 – Ant2)



Plot 7-271. Radiated Spurious Plot (LTE Band 41(PC3)/38 – Above 18GHz – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 188 of 214

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
599.90	H	-	-	-66.18	-2.12	38.70	-58.71	-25.00	-33.71

Table 7-62. Radiated Spurious Data (LTE Band 41(PC3)/38 – Below 1GHz – Ant2)

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	186	303	-67.82	9.79	48.97	-46.29	-25.00	-21.29
7530.00	H	297	306	-68.80	15.68	53.88	-41.38	-25.00	-16.38
10040.00	H	132	309	-73.79	19.32	52.53	-42.72	-25.00	-17.72
12550.00	H	-	-	-76.06	23.80	54.74	-40.52	-25.00	-15.52
15060.00	H	-	-	-76.06	27.93	58.87	-36.39	-25.00	-11.39
17570.00	H	-	-	-76.40	31.17	61.77	-33.49	-25.00	-8.49

Table 7-63. Radiated Spurious Data (LTE Band 41(PC3)/38 – Low Channel – Ant2)

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	H	214	327	-68.94	10.16	48.22	-47.03	-25.00	-22.03
7779.00	H	269	64	-72.14	15.88	50.74	-44.52	-25.00	-19.52
10372.00	H	-	-	-73.41	20.07	53.66	-41.60	-25.00	-16.60
12965.00	H	-	-	-75.91	24.76	55.85	-39.41	-25.00	-14.41
15558.00	H	-	-	-76.32	29.36	60.04	-35.21	-25.00	-10.21

Table 7-64. Radiated Spurious Data (LTE Band 41(PC3)/38 – Mid Channel – Ant2)

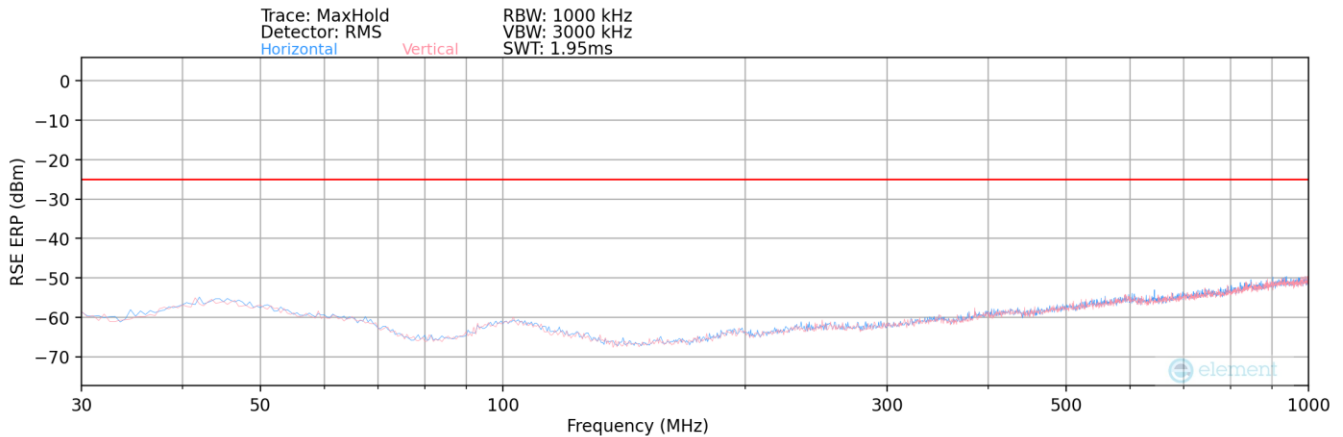
Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

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	H	301	336	-70.34	10.44	47.10	-48.16	-25.00	-23.16
8040.00	H	138	65	-69.09	16.42	54.33	-40.92	-25.00	-15.92
10720.00	H	-	-	-74.81	20.71	52.90	-42.36	-25.00	-17.36
13400.00	H	-	-	-75.79	25.40	56.61	-38.64	-25.00	-13.64
16080.00	H	-	-	-76.63	29.09	59.46	-35.80	-25.00	-10.80

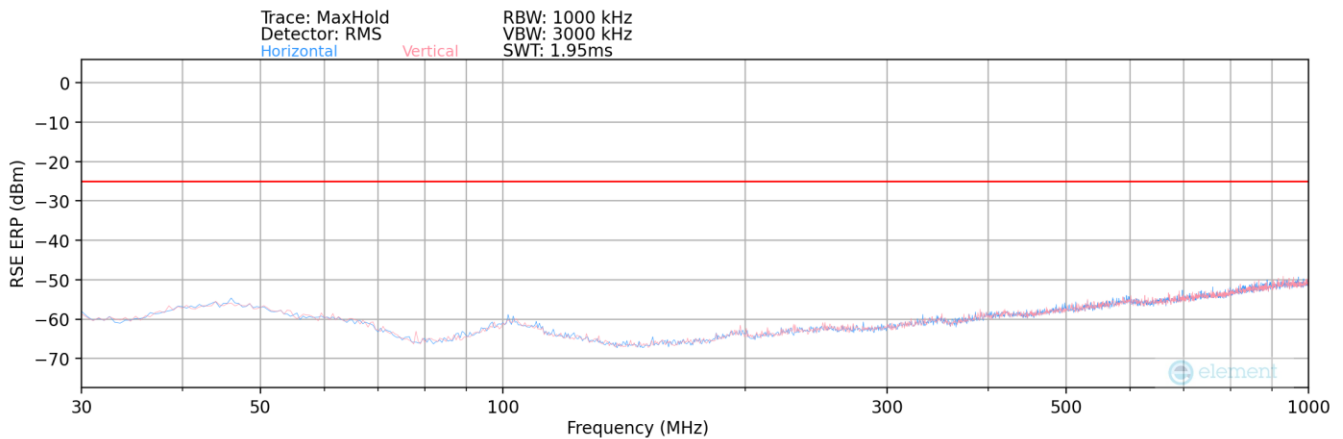
Table 7-65. Radiated Spurious Data (LTE Band 41(PC3)/38 – High Channel – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 189 of 214

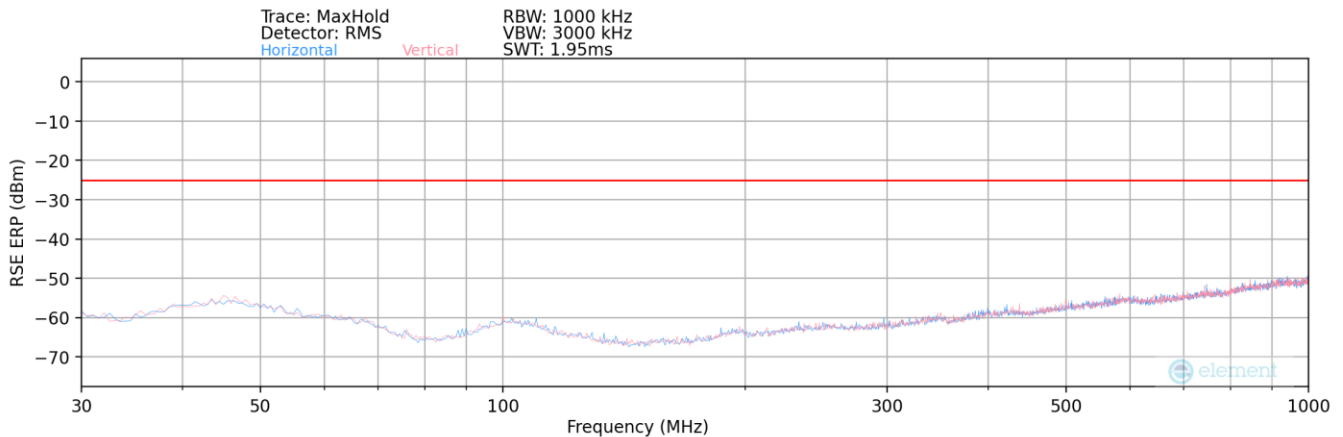
ULCA - LTE B41(PC2) – Ant2



Plot 7-272. Radiated Spurious Plot (LTE Band 41 – Below 1GHz – Low Channel – Ant2)

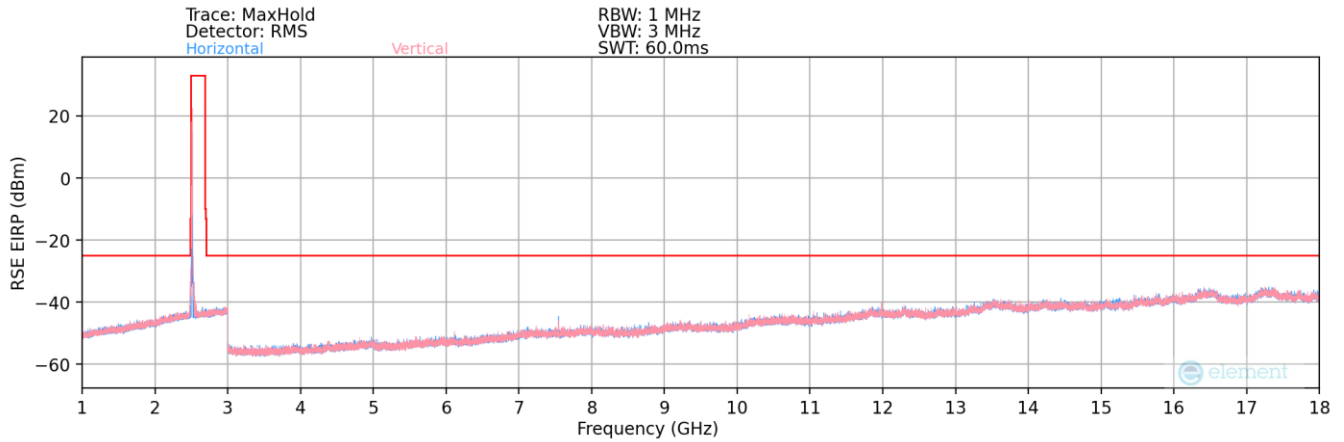


Plot 7-273. Radiated Spurious Plot (LTE Band 41 – Below 1GHz – Mid Channel – Ant2)

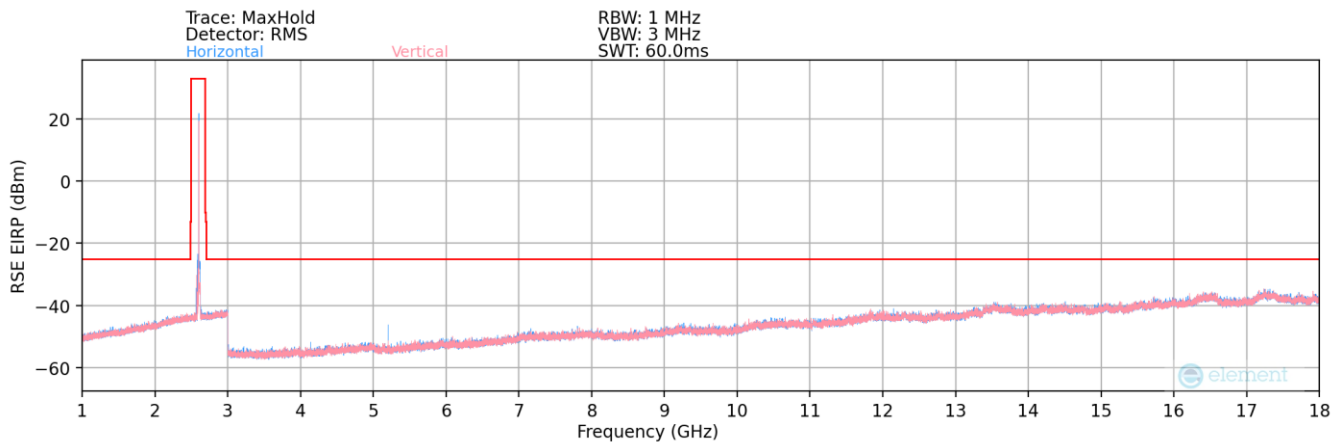


Plot 7-274. Radiated Spurious Plot (LTE Band 41 – Below 1GHz – High Channel – Ant2)

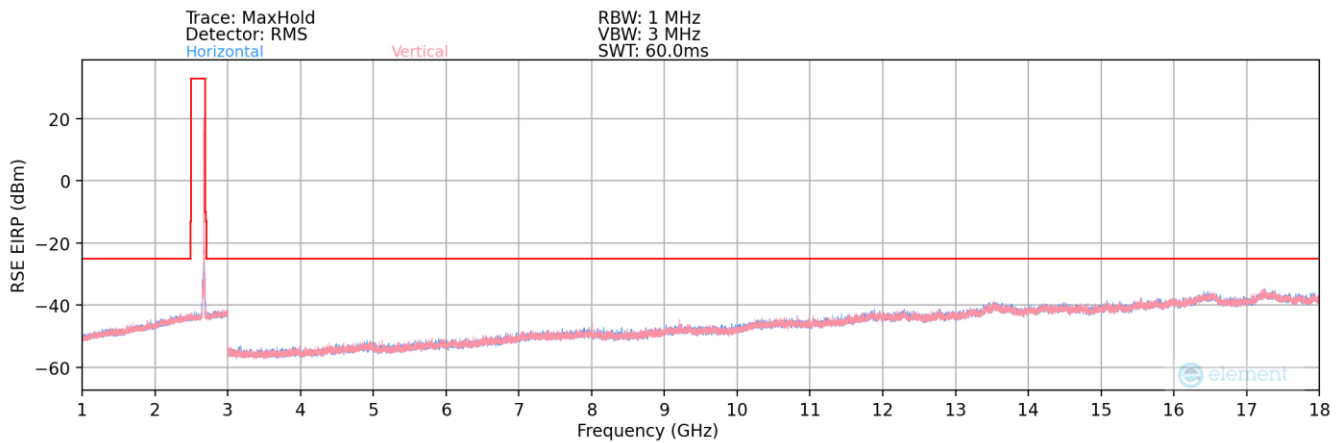
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 190 of 214



Plot 7-275. Radiated Spurious Plot (LTE Band 41 – Low Channel – Ant2)

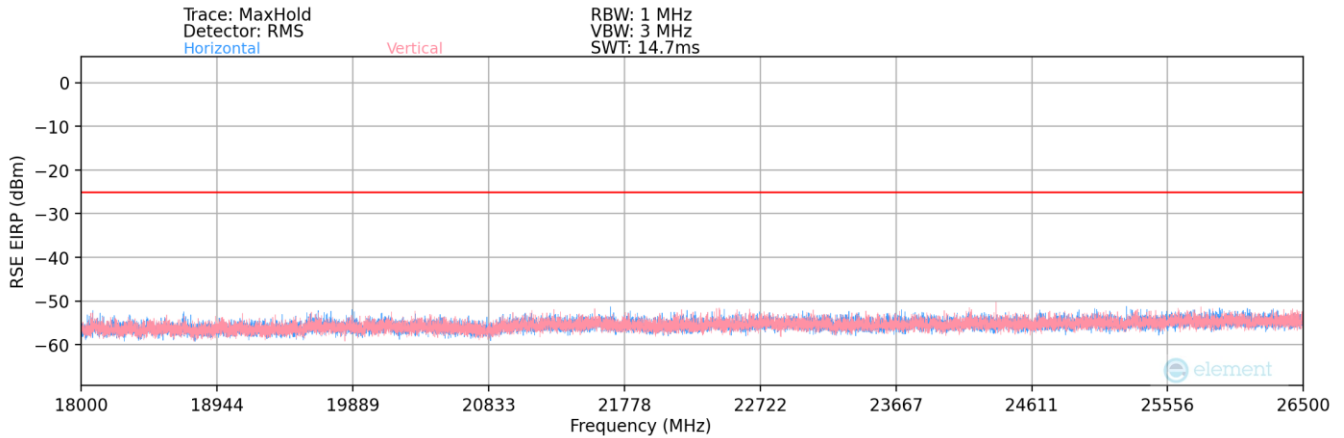


Plot 7-276. Radiated Spurious Plot (LTE Band 41 – Mid Channel – Ant2)

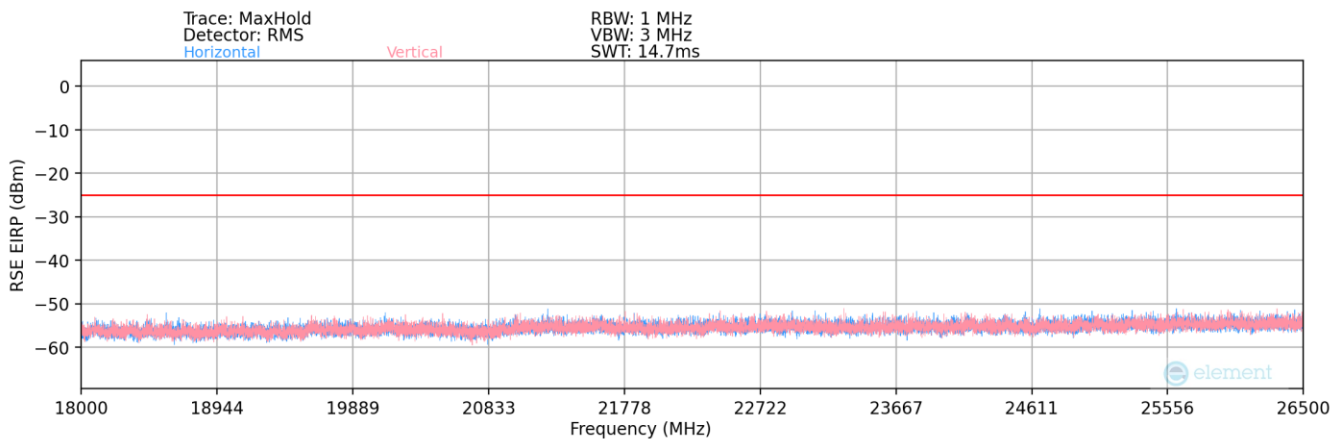


Plot 7-277. Radiated Spurious Plot (LTE Band 41 – High Channel – Ant2)

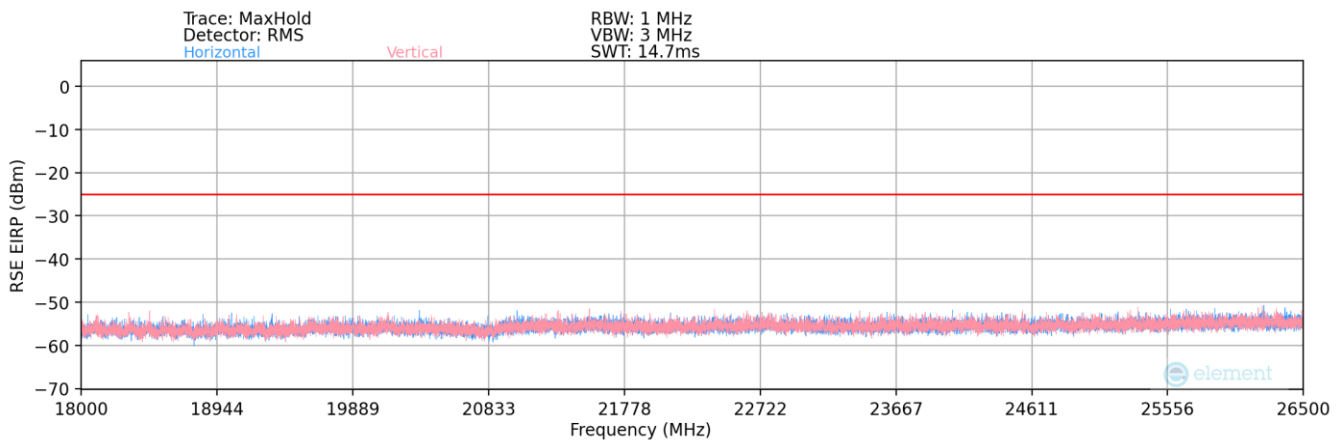
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 191 of 214



Plot 7-278. Radiated Spurious Plot (LTE Band 41 – 18GHz – Low Channel – Ant2)



Plot 7-279. Radiated Spurious Plot (LTE Band 41 – Above 18GHz – Mid Channel – Ant2)



Plot 7-280. Radiated Spurious Plot (LTE Band 41 – Above 18GHz – High Channel – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 192 of 214

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

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]
624.11	H	-	-	-66.36	-2.13	38.51	-58.90	-25.00	-33.90

Table 7-66. Radiated Spurious Data (LTE Band 41 – Below 1GHz – Ant2)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

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	H	192	320	-65.17	9.95	51.78	-43.47	-25.00	-18.47
7518.00	H	134	22	-70.21	15.75	52.54	-42.72	-25.00	-17.72
10024.00	H	-	-	-74.68	19.27	51.59	-43.66	-25.00	-18.66
12530.00	H	-	-	-75.34	24.00	55.66	-39.60	-25.00	-14.60
15036.00	H	-	-	-75.58	27.27	58.69	-36.57	-25.00	-11.57
17542.00	H	-	-	-75.99	31.24	62.25	-33.01	-25.00	-8.01

Table 7-67. Radiated Spurious Data (ULCA LTE B41(PC2) – Low Channel – Ant2)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

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	H	193	333	-66.65	10.16	50.51	-44.74	-25.00	-19.74
7779.00	H	364	311	-70.54	15.88	52.34	-42.92	-25.00	-17.92
10372.00	H	-	-	-73.93	20.07	53.14	-42.12	-25.00	-17.12
12965.00	H	-	-	-74.68	24.76	57.08	-38.18	-25.00	-13.18
15558.00	H	-	-	-75.33	29.36	61.03	-34.22	-25.00	-9.22

Table 7-68. Radiated Spurious Data (ULCA LTE B41(PC2) – Mid Channel – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 193 of 214



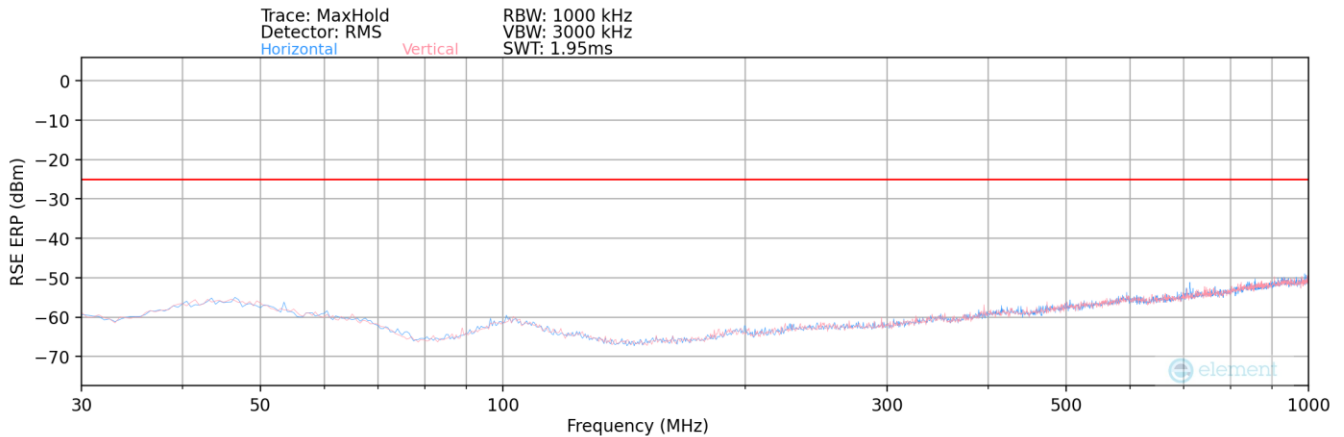
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

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	H	293	343	-70.32	10.44	47.12	-48.14	-25.00	-23.14
8040.00	H	272	71	-68.57	16.42	54.85	-40.40	-25.00	-15.40
10720.00	H	-	-	-74.01	20.71	53.70	-41.56	-25.00	-16.56
13400.00	H	-	-	-74.29	25.40	58.11	-37.14	-25.00	-12.14
16080.00	H	-	-	-75.23	29.09	60.86	-34.40	-25.00	-9.40

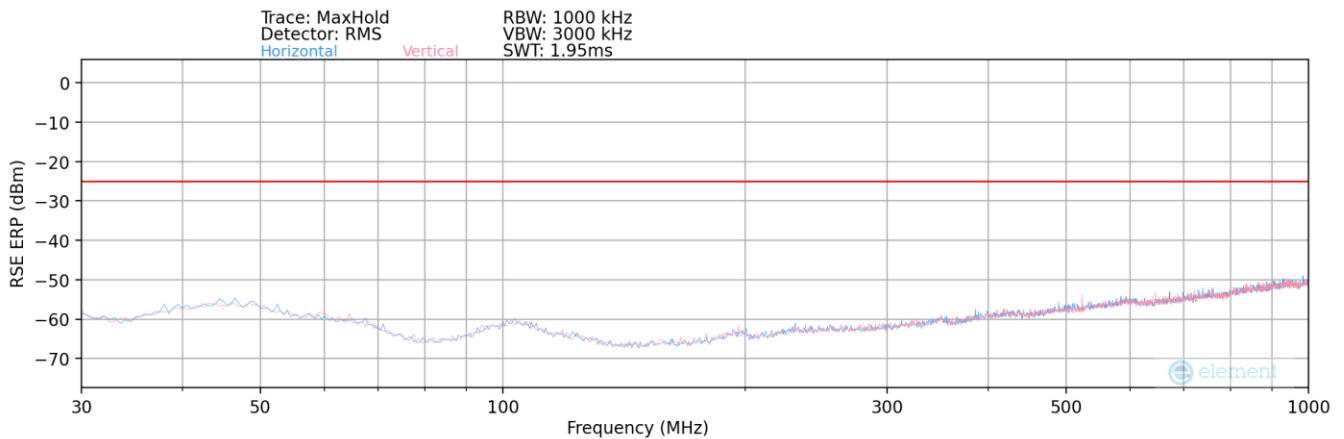
Table 7-69. Radiated Spurious Data (ULCA LTE B41(PC2) – High Channel – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 194 of 214

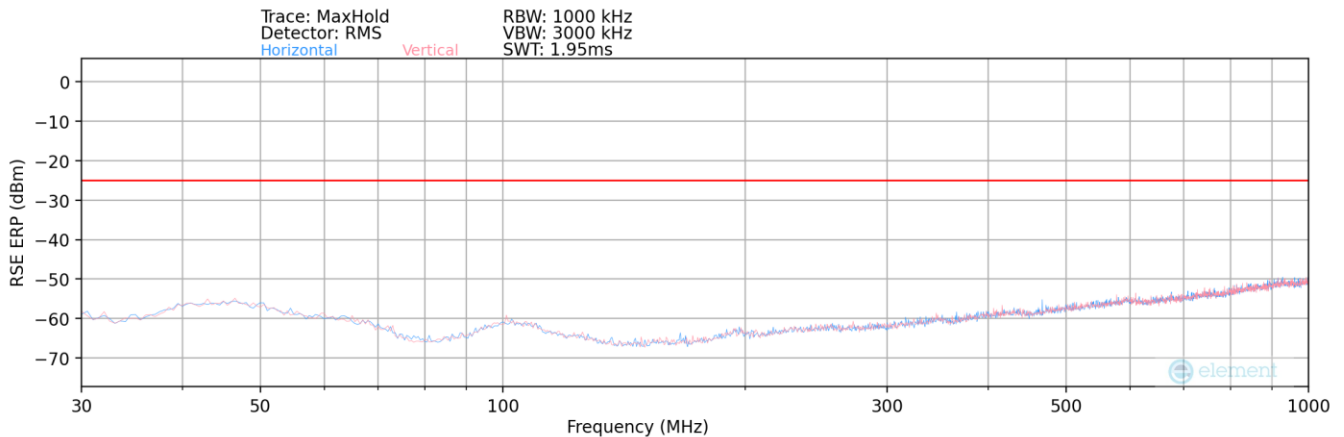
ULCA - LTE B41(PC3) – Ant2



Plot 7-281. Radiated Spurious Plot (LTE Band 41 – Below 1GHz – Low Channel – Ant2)

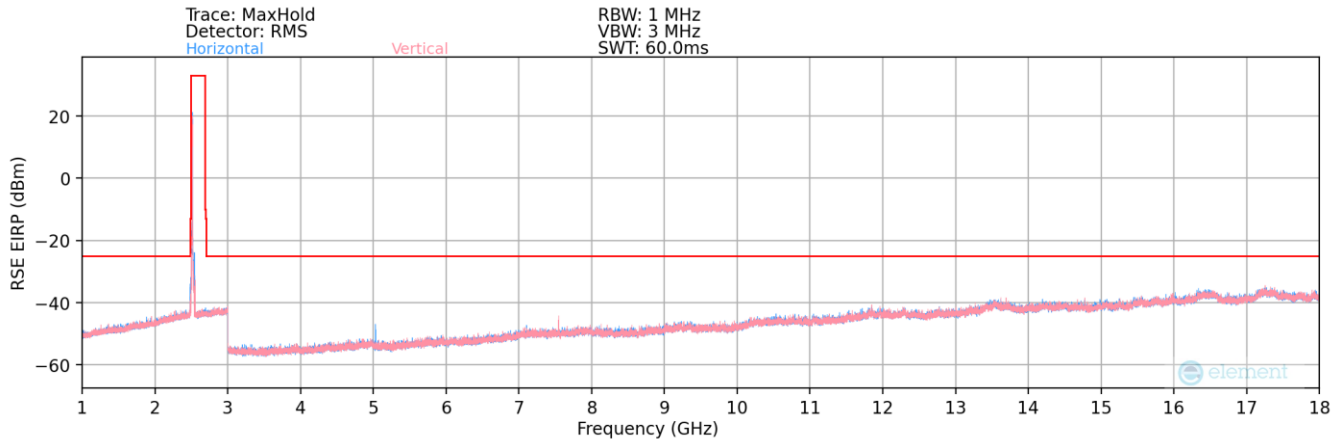


Plot 7-282. Radiated Spurious Plot (LTE Band 41 – Below 1GHz – Mid Channel – Ant2)

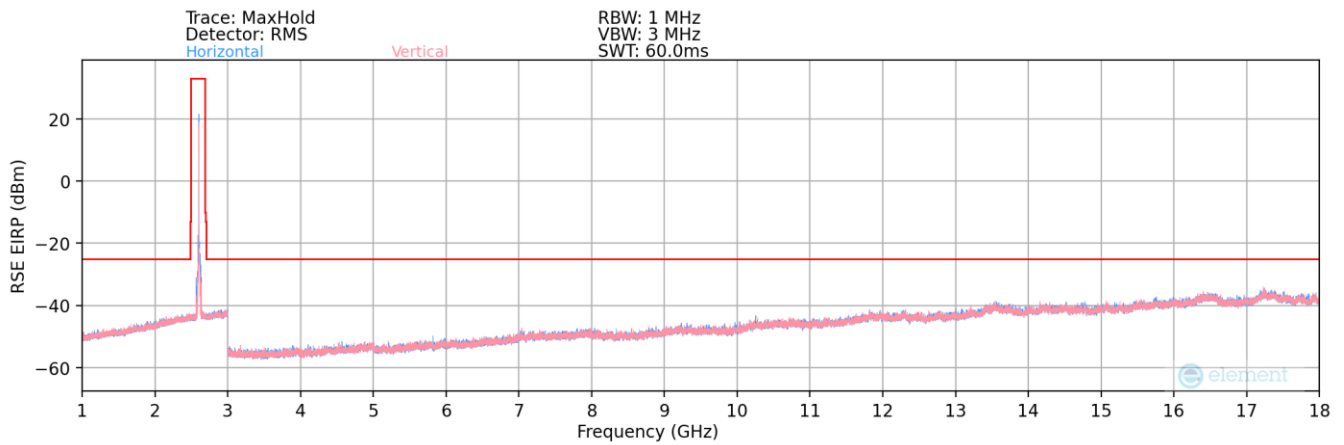


Plot 7-283. Radiated Spurious Plot (LTE Band 41 – Below 1GHz – High Channel – Ant2)

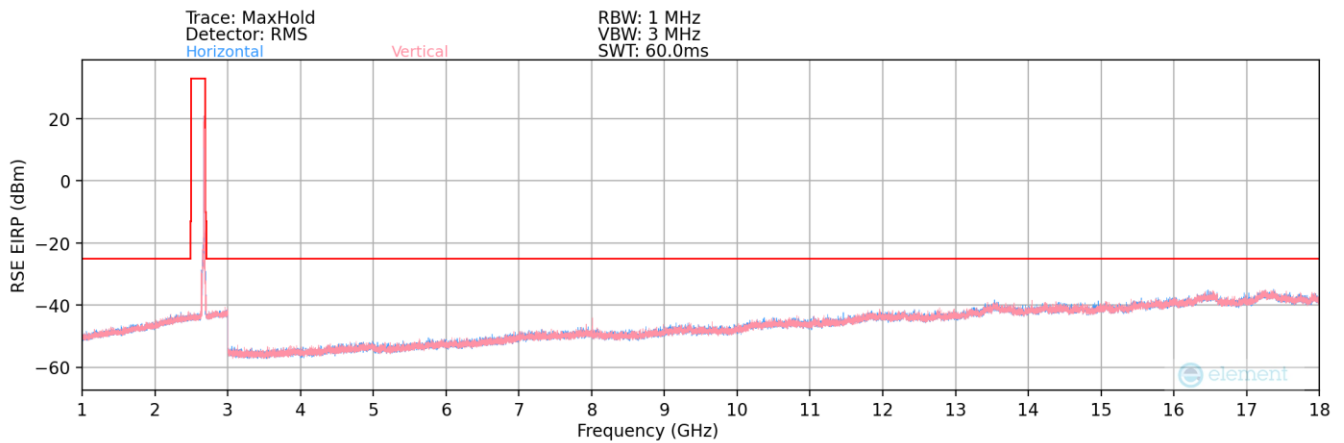
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 195 of 214



Plot 7-284. Radiated Spurious Plot (LTE Band 41 – Low Channel – Ant2)

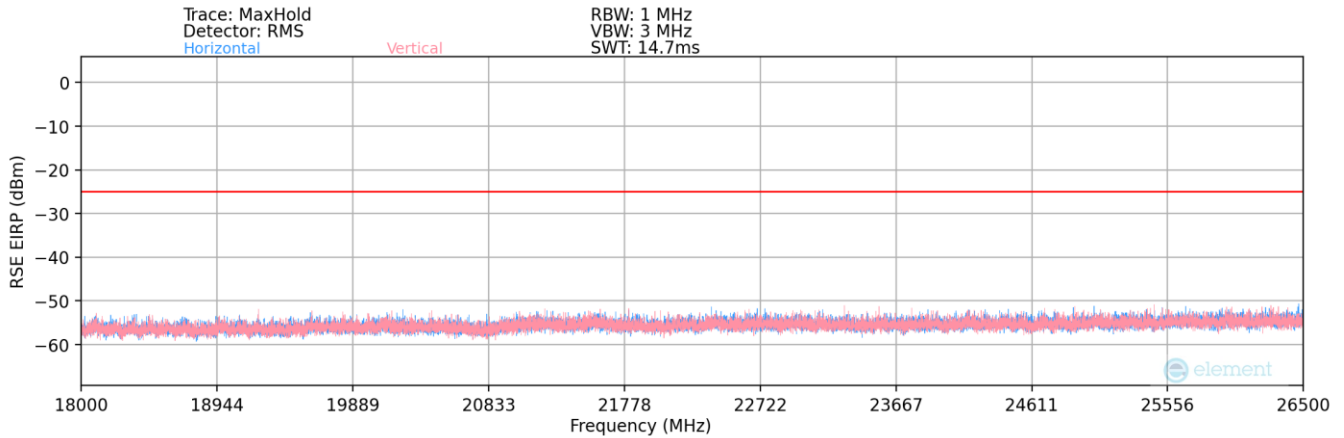


Plot 7-285. Radiated Spurious Plot (LTE Band 41 – Mid Channel – Ant2)

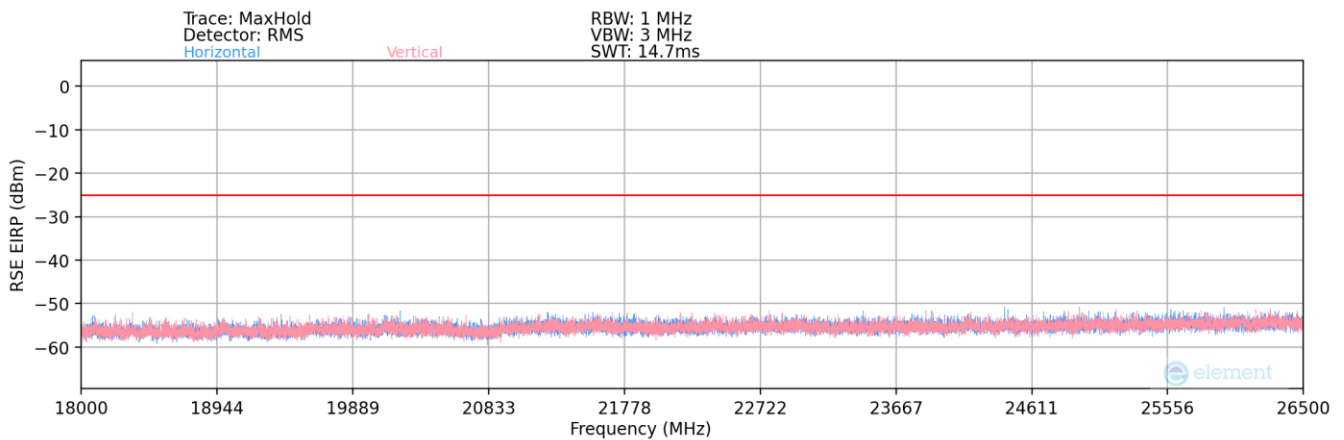


Plot 7-286. Radiated Spurious Plot (LTE Band 41 – High Channel – Ant2)

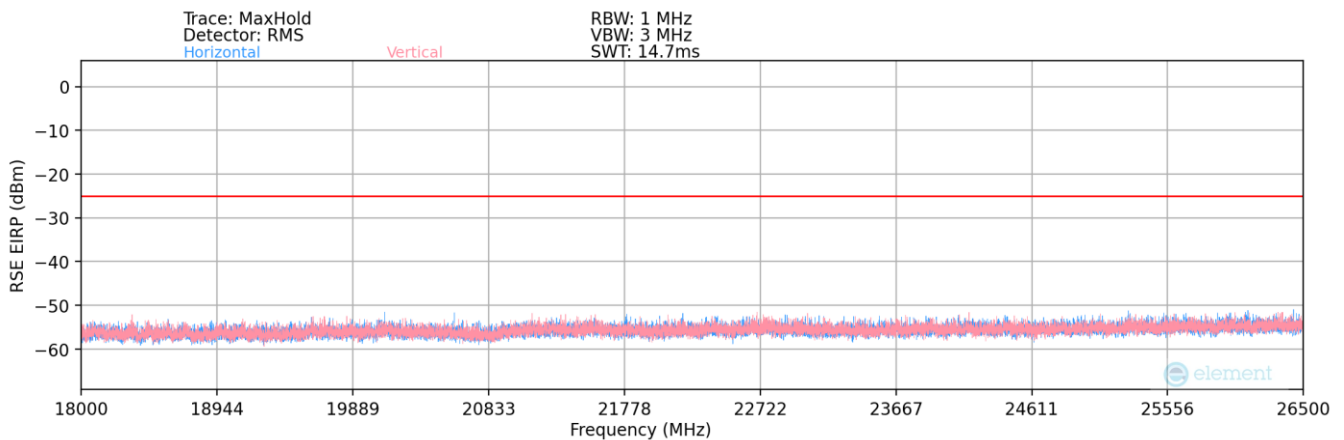
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 196 of 214



Plot 7-287. Radiated Spurious Plot (LTE Band 41 – 18GHz – Low Channel – Ant2)



Plot 7-288. Radiated Spurious Plot (LTE Band 41 – Above 18GHz – Mid Channel – Ant2)



Plot 7-289. Radiated Spurious Plot (LTE Band 41 – Above 18GHz – High Channel – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 197 of 214



PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

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]
624.11	H	-	-	-66.36	-2.13	38.51	-58.90	-25.00	-33.90

Table 7-70. Radiated Spurious Data (LTE Band 41 – Below 1GHz – Ant2)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

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	H	193	306	-65.74	9.95	51.21	-44.04	-25.00	-19.04
7518.00	H	140	25	-70.21	15.75	52.54	-42.72	-25.00	-17.72
10024.00	H	-	-	-75.00	19.27	51.27	-43.98	-25.00	-18.98
12530.00	H	-	-	-75.38	24.00	55.62	-39.64	-25.00	-14.64
15036.00	H	-	-	-76.10	27.27	58.17	-37.09	-25.00	-12.09
17542.00	H	-	-	-76.38	31.24	61.86	-33.40	-25.00	-8.40

Table 7-71. Radiated Spurious Data (ULCA LTE B41(PC3) – Low Channel – Ant2)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

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	H	189	335	-67.12	10.16	50.04	-45.21	-25.00	-20.21
7779.00	H	263	315	-69.34	15.88	53.54	-41.72	-25.00	-16.72
10372.00	H	-	-	-74.08	20.07	52.99	-42.27	-25.00	-17.27
12965.00	H	-	-	-76.03	24.76	55.73	-39.53	-25.00	-14.53
15558.00	H	-	-	-75.88	29.36	60.48	-34.77	-25.00	-9.77

Table 7-72. Radiated Spurious Data (ULCA LTE B41(PC3) – Mid Channel – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 198 of 214



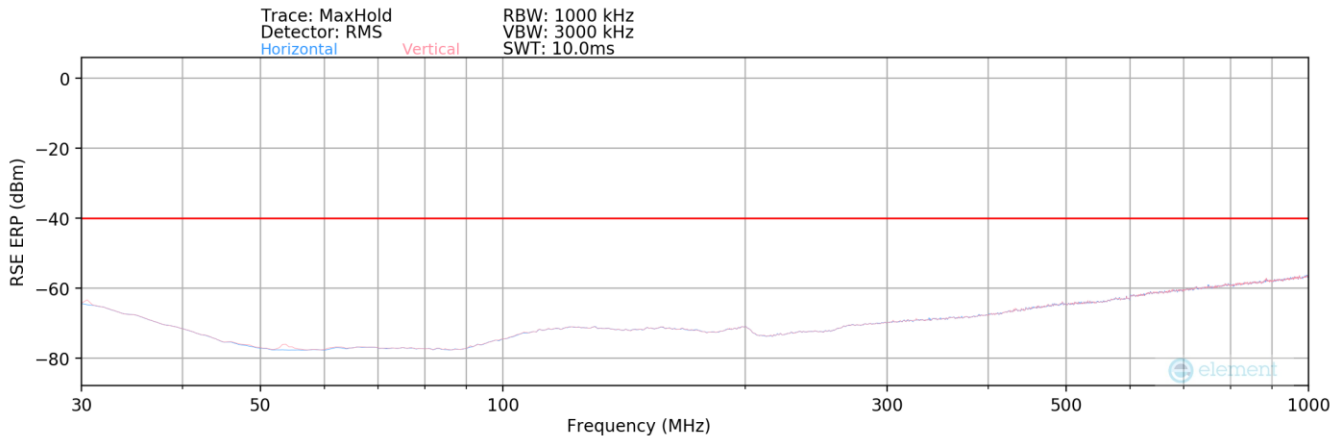
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

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	H	261	337	-71.05	10.44	46.39	-48.87	-25.00	-23.87
8040.00	H	121	62	-70.04	16.42	53.38	-41.87	-25.00	-16.87
10720.00	H	-	-	-74.59	20.71	53.12	-42.14	-25.00	-17.14
13400.00	H	-	-	-75.72	25.40	56.68	-38.57	-25.00	-13.57
16080.00	H	-	-	-76.41	29.09	59.68	-35.58	-25.00	-10.58

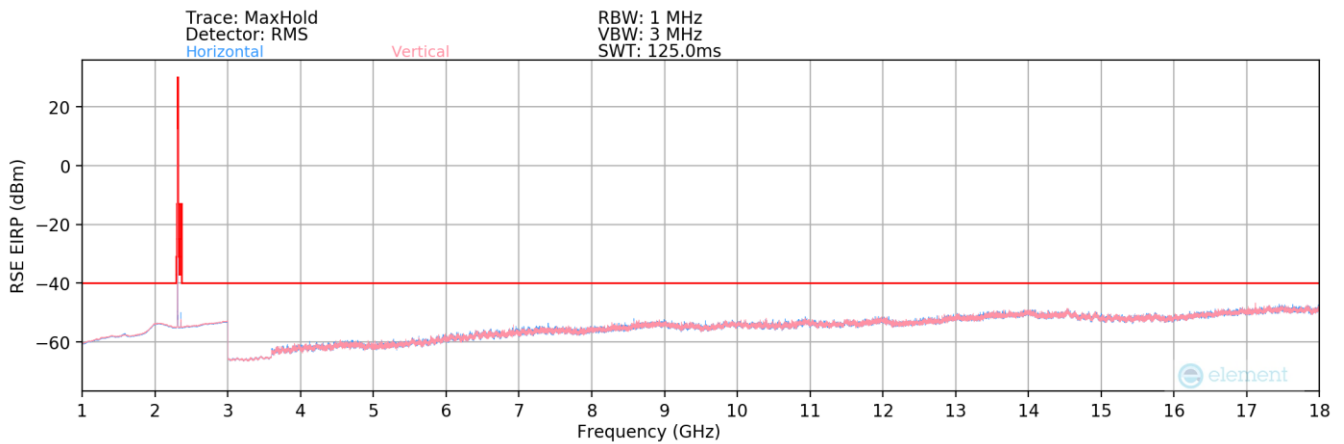
Table 7-73. Radiated Spurious Data (ULCA LTE B41(PC3) – High Channel – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 199 of 214

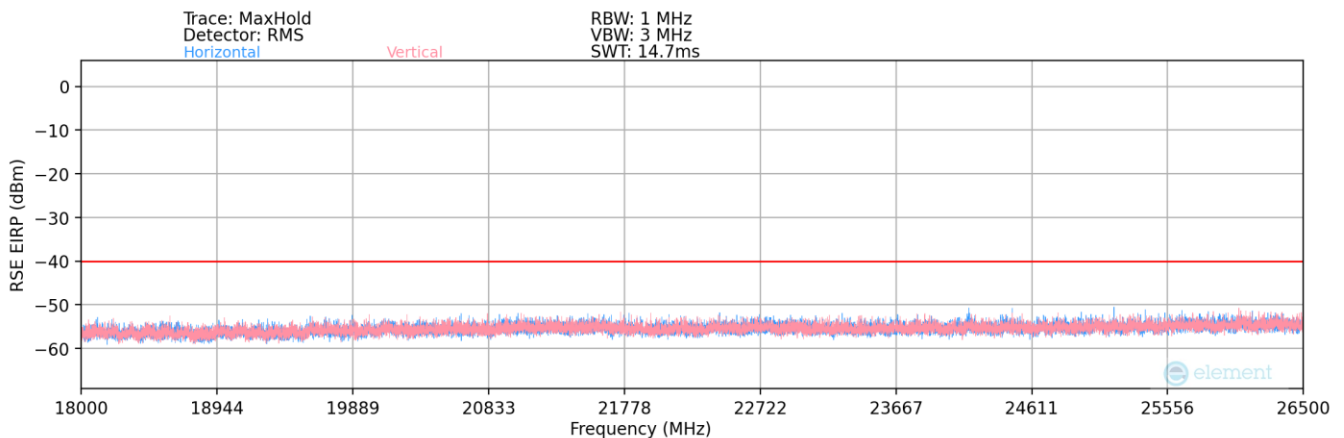
NR Band n30 – Ant2



Plot 7-290. Radiated Spurious Plot (NR Band n30 – Below 1GHz – Ant2)



Plot 7-291. Radiated Spurious Plot (NR Band n30 – Ant2)



Plot 7-292. Radiated Spurious Plot (NR Band n30 – Above 18GHz – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 200 of 214



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

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]
919.40	V	-	-	-89.20	31.54	49.34	-48.07	-40.00	-8.07

Table 7-74. Radiated Spurious Data (NR Band n30 – Below 1GHz – Ant2)

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

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	V	138	152	-74.72	2.79	35.07	-60.18	-40.00	-20.18
6930.00	V	122	195	-72.92	8.25	42.33	-52.93	-40.00	-12.93
9240.00	V	242	144	-76.54	10.63	41.09	-54.17	-40.00	-14.17
11550.00	V	-	-	-82.12	12.70	37.58	-57.68	-40.00	-17.68
13860.00	V	-	-	-82.55	16.56	41.01	-54.24	-40.00	-14.24
16170.00	V	-	-	-82.32	15.13	39.81	-55.45	-40.00	-15.45

Table 7-75. Radiated Spurious Data (NR Band n30 – Mid Channel – Ant2)

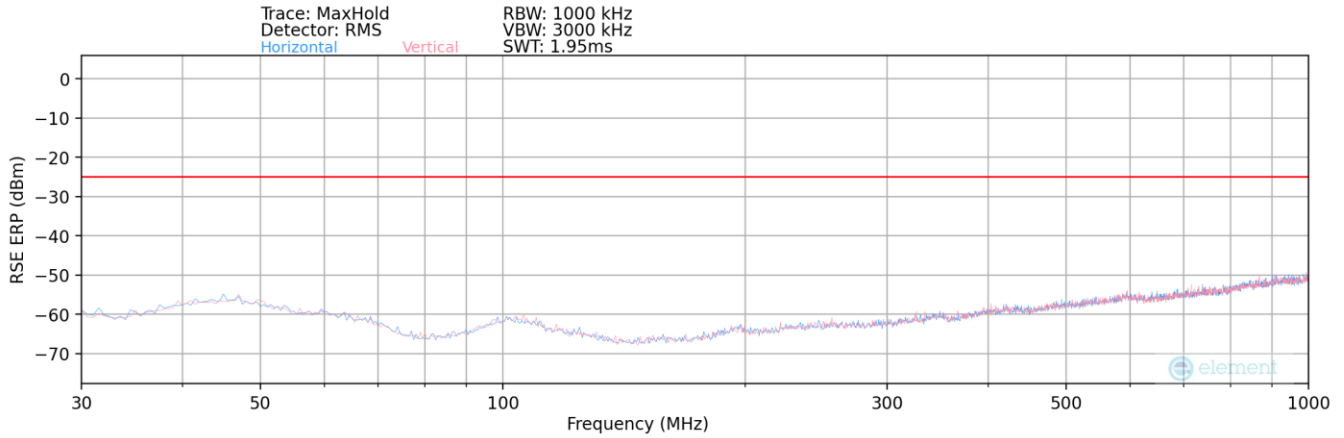
Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

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	V	163	40	-72.39	6.26	40.87	-54.39	-40.00	-14.39
6930.00	V	129	16	-73.23	12.25	46.02	-49.24	-40.00	-9.24
9240.00	V	145	36	-73.88	16.52	49.64	-45.62	-40.00	-5.62
11550.00	V	-	-	-80.61	18.21	44.60	-50.66	-40.00	-10.66
13860.00	V	-	-	-82.91	22.28	46.37	-48.89	-40.00	-8.89
16170.00	V	-	-	-82.59	22.11	46.52	-48.74	-40.00	-8.74

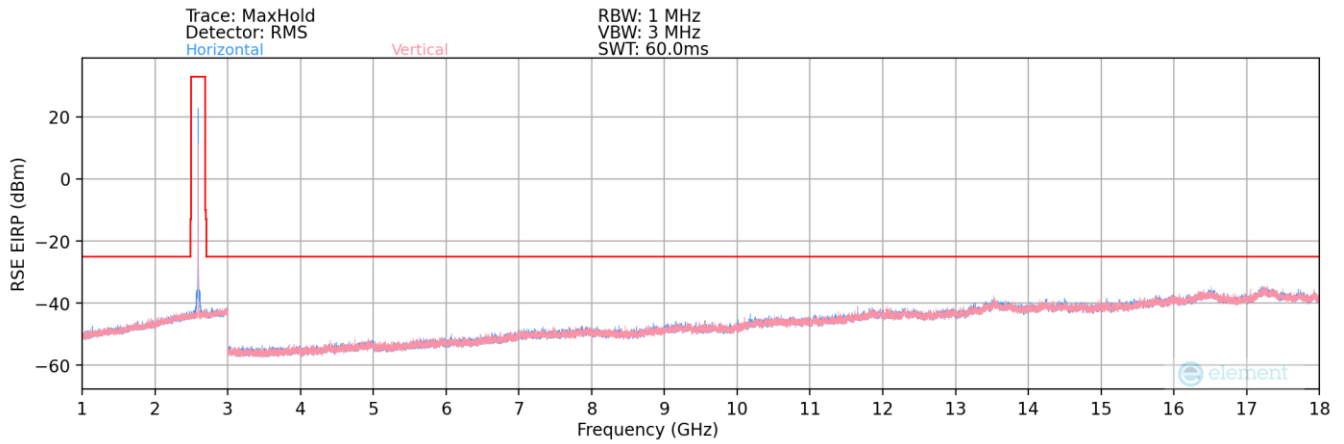
Table 7-76. Radiated Spurious Data with WCP (NR Band n30 – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 201 of 214

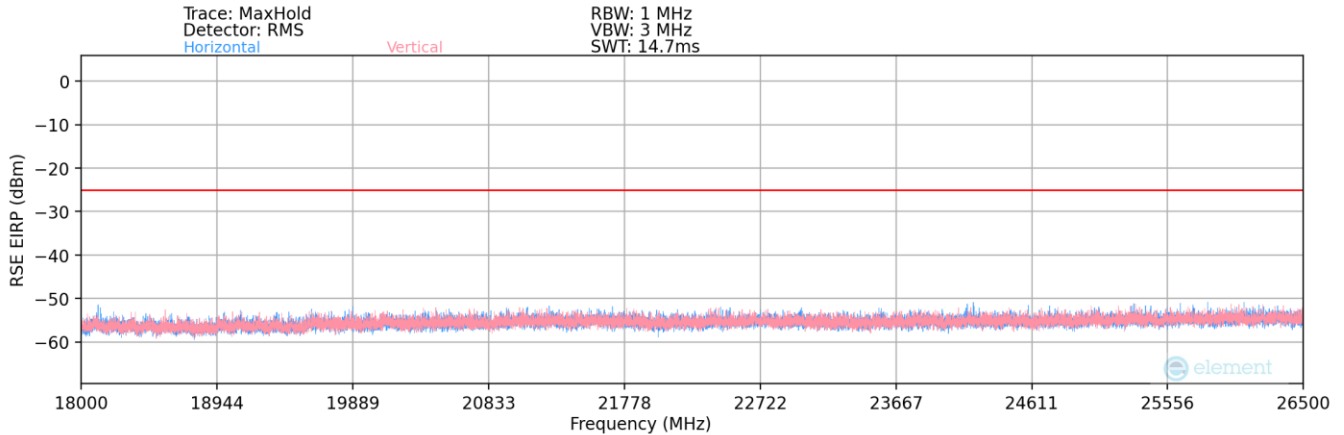
NR Band n41 – Ant2



Plot 7-293. Radiated Spurious Plot (NR Band n41 – Below 1GHz – Ant2)



Plot 7-294. Radiated Spurious Plot (NR Band n41 – Ant2)



Plot 7-295. Radiated Spurious Plot (NR Band n41 – Above 18GHz – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 202 of 214

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
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]
637.22	H	-	-	-66.63	-2.13	38.24	-59.17	-25.00	-34.17

Table 7-77. Radiated Spurious Data (NR Band n41 – Below 1GHz – Ant2)

Bandwidth (MHz):	100
Frequency (MHz):	2550.00
RB / Offset:	1 / 136
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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.00	V	115	86	-71.28	10.12	45.84	-49.42	-25.00	-24.42
7650.00	V	-	-	-73.23	15.62	49.39	-45.87	-25.00	-20.87
10200.00	V	-	-	-74.81	19.76	51.95	-43.31	-25.00	-18.31
12750.00	V	-	-	-76.28	23.56	54.28	-40.98	-25.00	-15.98

Table 7-78. Radiated Spurious Data (NR Band n41 – Low Channel – Ant2)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5185.98	V	108	91	-71.40	10.31	45.91	-49.35	-25.00	-24.35
7778.97	V	-	-	-73.19	15.45	49.26	-45.99	-25.00	-20.99
10371.96	V	-	-	-74.28	19.59	52.31	-42.95	-25.00	-17.95
12964.95	V	-	-	-75.10	24.06	55.96	-39.30	-25.00	-14.30

Table 7-79. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant2)

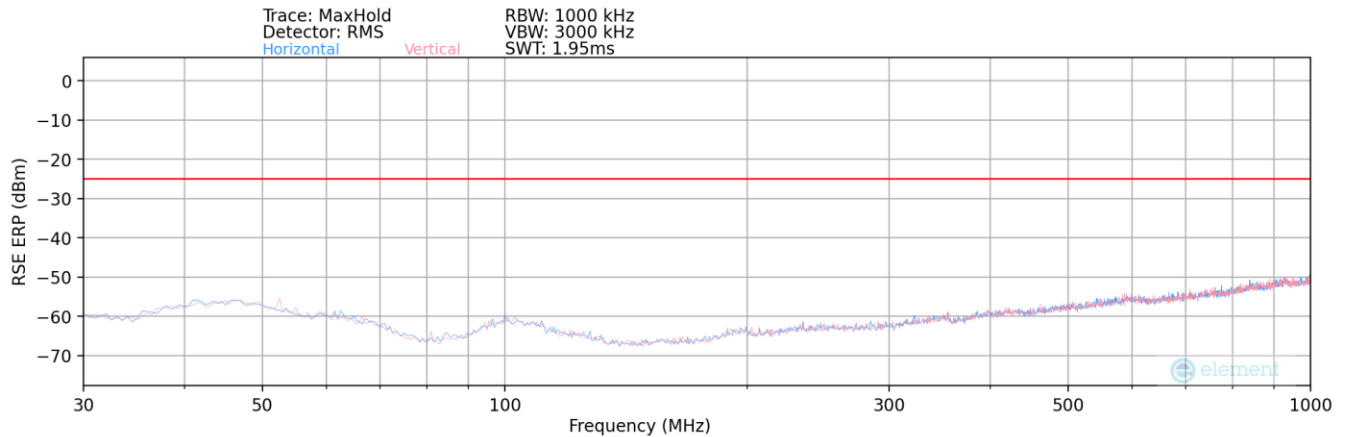
Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	V	357	349	-71.87	10.15	45.28	-49.98	-25.00	-24.98
7920.00	V	-	-	-72.91	15.54	49.63	-45.63	-25.00	-20.63
10560.00	V	-	-	-74.64	19.87	52.23	-43.03	-25.00	-18.03
13200.00	V	-	-	-76.06	24.40	55.34	-39.92	-25.00	-14.92

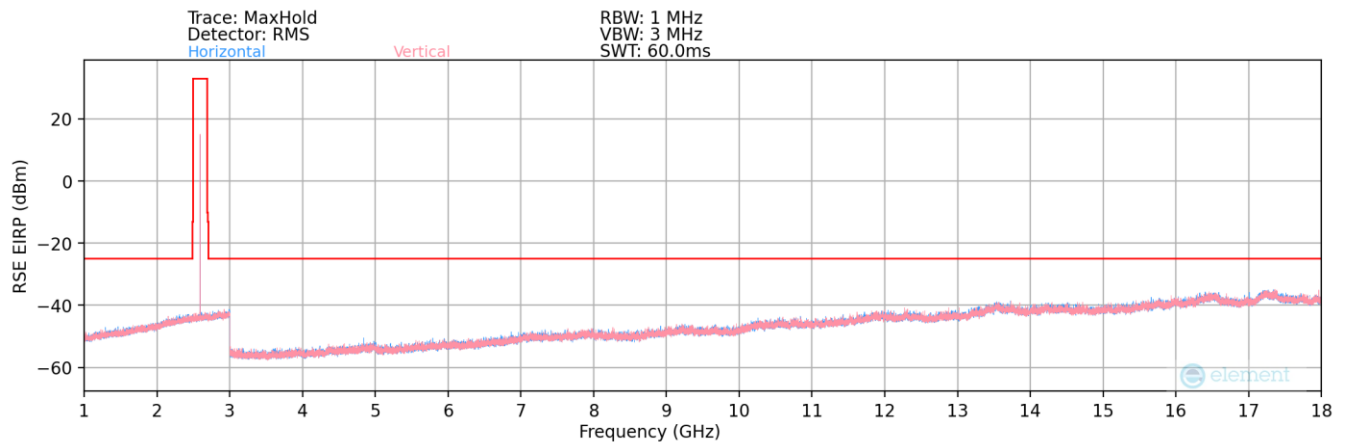
Table 7-80. Radiated Spurious Data (NR Band n41 – High Channel – Ant2)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 203 of 214

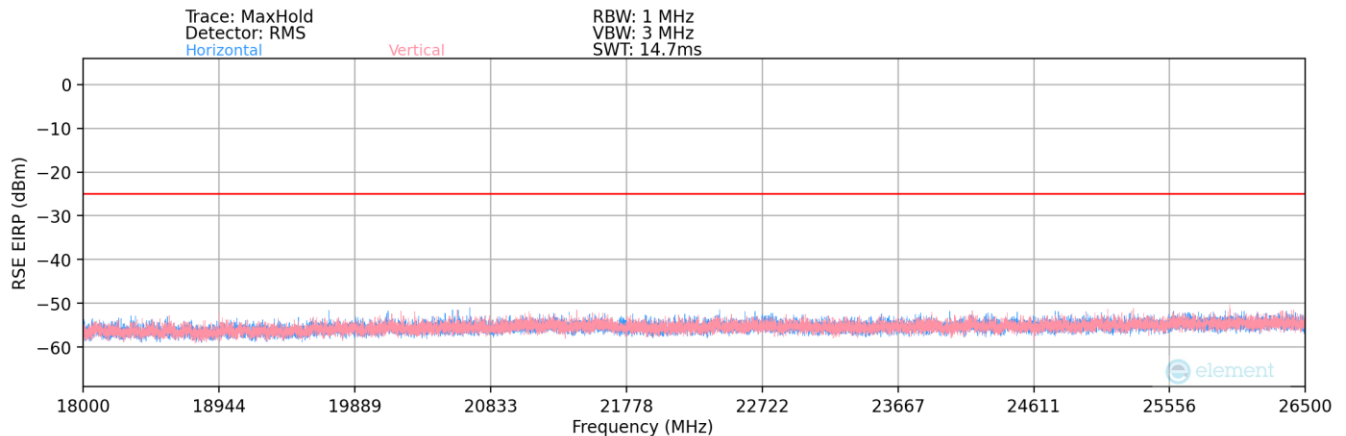
NR Band n41 – Ant3



Plot 7-296. Radiated Spurious Plot (NR Band n41 – Below 1GHz – Ant3)



Plot 7-297. Radiated Spurious Plot (NR Band n41 – Ant3)



Plot 7-298. Radiated Spurious Plot (NR Band n41 – Above 18GHz – Ant3)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 204 of 214

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136
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]
832.87	H	-	-	-67.93	1.00	40.07	-57.34	-25.00	-32.34

Table 7-81. Radiated Spurious Data (NR Band n41 – Below 1GHz – Ant3)

Bandwidth (MHz):	100
Frequency (MHz):	2550.00
RB / Offset:	1 / 136
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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.00	H	183	13	-68.81	10.12	48.31	-46.95	-25.00	-21.95
7650.00	H	107	347	-70.49	15.62	52.13	-43.13	-25.00	-18.13
10200.00	H	-	-	-75.51	19.76	51.25	-44.01	-25.00	-19.01
12750.00	H	-	-	-76.63	23.56	53.93	-41.33	-25.00	-16.33
15300.00	H	-	-	-76.65	26.89	57.24	-38.02	-25.00	-13.02

Table 7-82. Radiated Spurious Data (NR Band n41 – Low Channel – Ant3)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5185.98	H	185	355	-70.28	10.31	47.03	-48.23	-25.00	-23.23
7778.97	H	-	-	-73.06	15.45	49.39	-45.86	-25.00	-20.86
10371.96	H	-	-	-73.52	19.59	53.07	-42.19	-25.00	-17.19
12964.95	H	-	-	-75.18	24.06	55.88	-39.38	-25.00	-14.38

Table 7-83. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant3)

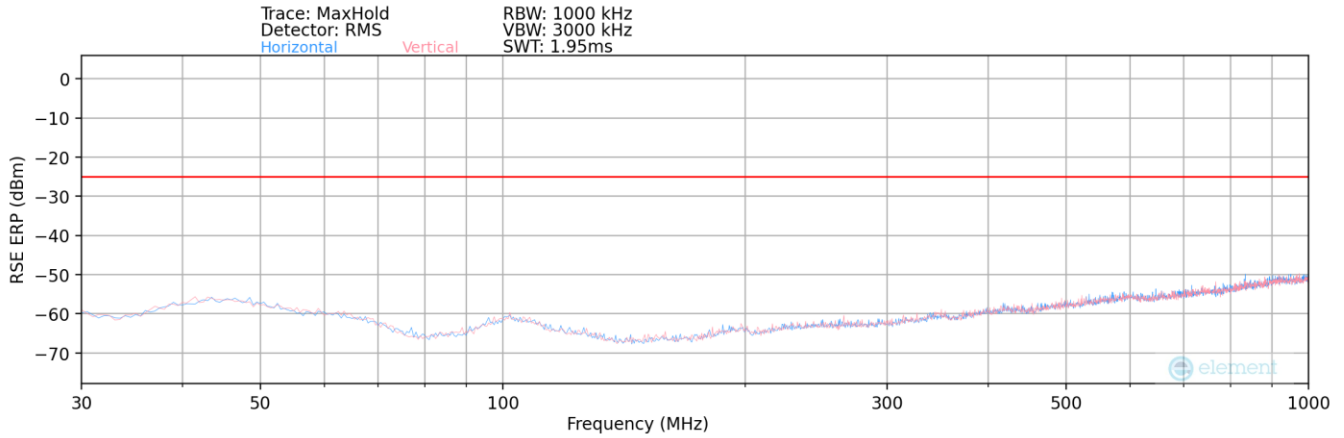
Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	H	131	354	-66.93	10.15	50.22	-45.04	-25.00	-20.04
7920.00	H	-	-	-73.67	15.54	48.87	-46.39	-25.00	-21.39
10560.00	H	-	-	-74.43	19.87	52.44	-42.82	-25.00	-17.82
13200.00	H	-	-	-75.84	24.40	55.56	-39.70	-25.00	-14.70

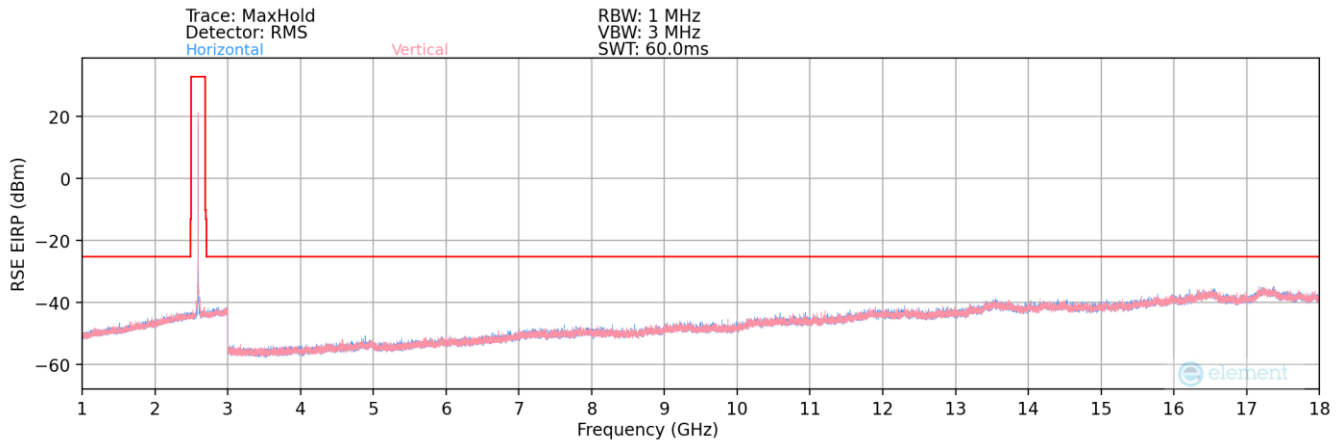
Table 7-84. Radiated Spurious Data (NR Band n41 – High Channel – Ant3)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 205 of 214

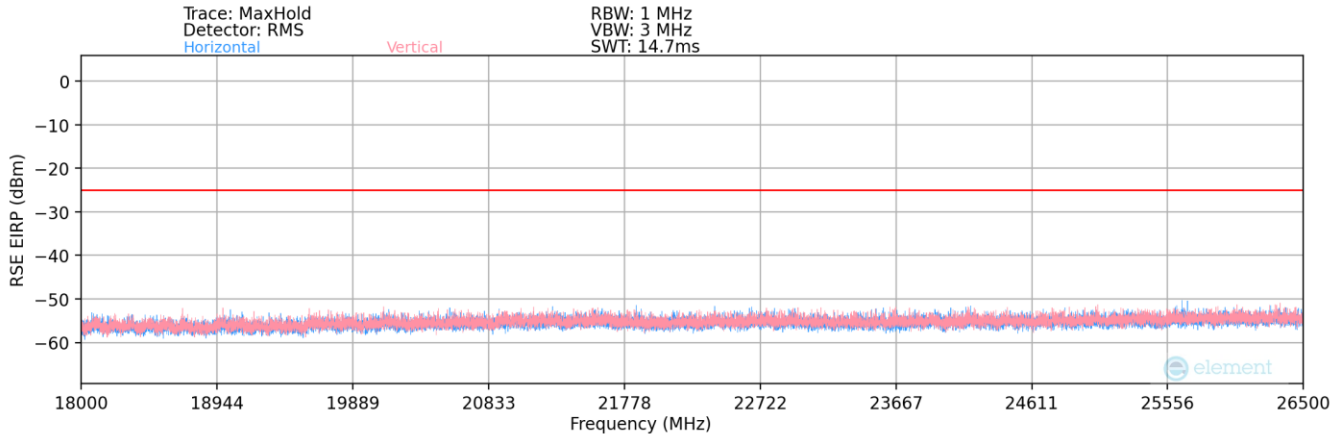
NR Band n41 – Ant4



Plot 7-299. Radiated Spurious Plot (NR Band n41 – Below 1GHz – Ant4)



Plot 7-300. Radiated Spurious Plot (NR Band n41 – Ant4)



Plot 7-301. Radiated Spurious Plot (NR Band n41 – Above 18GHz – Ant4)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 206 of 214

Bandwidth (MHz):	100
Frequency (MHz):	2550.00
RB / Offset:	1 / 136
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]
845.77	V	-	-	-67.98	1.48	40.50	-56.91	-25.00	-31.91

Table 7-85. Radiated Spurious Data (NR Band n41 – Below 1GHz – Ant4)

Bandwidth (MHz):	100
Frequency (MHz):	2550.00
RB / Offset:	1 / 136
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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.00	V	110	20	-70.14	10.12	46.98	-48.28	-25.00	-23.28
7650.00	V	305	343	-69.98	15.62	52.64	-42.62	-25.00	-17.62
10200.00	V	-	-	-74.87	19.76	51.89	-43.37	-25.00	-18.37
12750.00	V	-	-	-76.40	23.56	54.16	-41.10	-25.00	-16.10
15300.00	V	-	-	-77.07	26.89	56.82	-38.44	-25.00	-13.44

Table 7-86. Radiated Spurious Data (NR Band n41 – Low Channel – Ant4)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5185.98	V	110	14	-71.68	10.31	45.63	-49.63	-25.00	-24.63
7778.97	V	103	345	-70.11	15.45	52.34	-42.91	-25.00	-17.91
10371.96	V	-	-	-75.05	19.59	51.54	-43.72	-25.00	-18.72
12964.95	V	-	-	-75.48	24.06	55.58	-39.68	-25.00	-14.68
15557.94	V	-	-	-77.10	28.21	58.11	-37.15	-25.00	-12.15

Table 7-87. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant4)

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136
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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	V	113	359	-69.02	10.15	48.13	-47.13	-25.00	-22.13
7920.00	V	116	35	-71.70	15.54	50.84	-44.42	-25.00	-19.42
10560.00	V	-	-	-74.64	19.87	52.23	-43.03	-25.00	-18.03
13200.00	V	-	-	-75.98	24.40	55.42	-39.84	-25.00	-14.84

Table 7-88. Radiated Spurious Data (NR Band n41 – High Channel – Ant4)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 207 of 214



7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

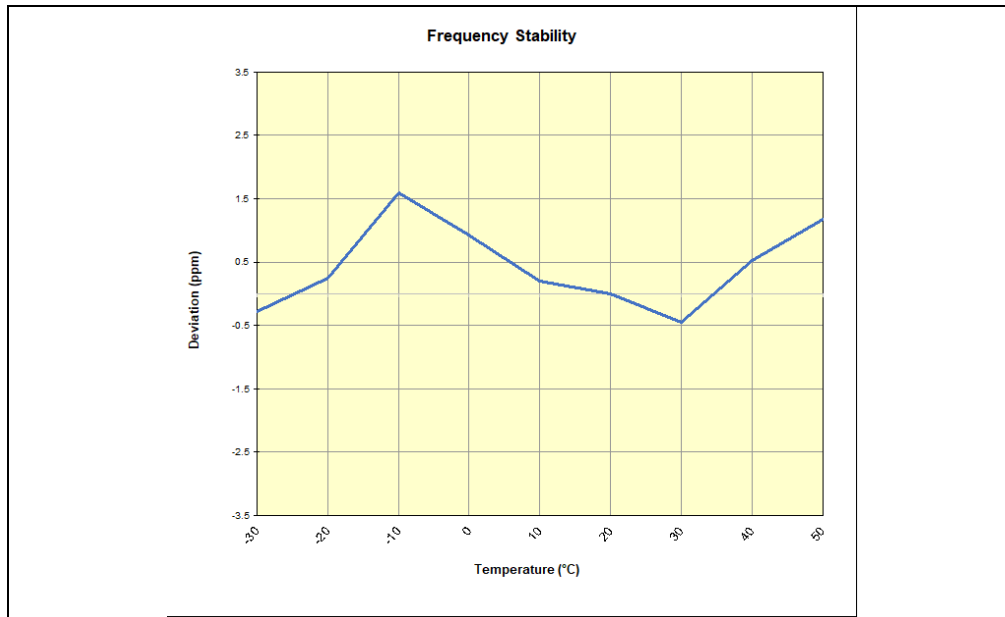
None

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 208 of 214

LTE Band 30

LTE Band 30					
Operating Frequency (Hz):		2,310,000,000			
Ref. Voltage (VDC):		4.43			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	2,310,386,883	-657	-0.0000284
		- 20	2,310,388,107	567	0.0000245
		- 10	2,310,391,238	3,697	0.0001600
		0	2,310,389,674	2,133	0.0000923
		+ 10	2,310,387,987	447	0.0000193
		+ 20 (Ref)	2,310,387,540	0	0.0000000
		+ 30	2,310,386,517	-1,024	-0.0000443
		+ 40	2,310,388,765	1,225	0.0000530
Battery Endpoint	3.27	+ 20	2,310,387,500	-40	-0.0000017

Table 7-89. LTE Band 30 Frequency Stability Data



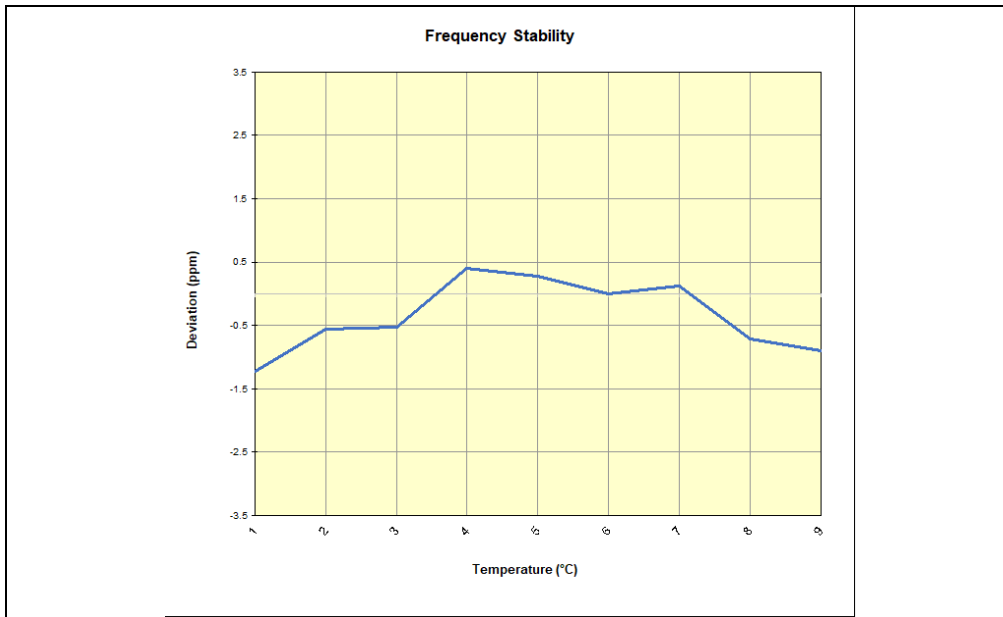
Plot 7-302. LTE Band 30 Frequency Stability Chart

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 209 of 214

LTE Band 7

LTE Band 7					
Operating Frequency (Hz):		2,535,000,000			
Ref. Voltage (VDC):		4.43			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	2,535,729,149	-3,111	-0.0001227
		- 20	2,535,730,866	-1,394	-0.0000550
		- 10	2,535,730,927	-1,333	-0.0000526
		0	2,535,733,295	1,035	0.0000408
		+ 10	2,535,732,947	687	0.0000271
		+ 20 (Ref)	2,535,732,260	0	0.0000000
		+ 30	2,535,732,563	303	0.0000120
		+ 40	2,535,730,441	-1,819	-0.0000717
Battery Endpoint	3.27	+ 20	2,535,732,200	-60	-0.0000024

Table 7-90. LTE Band 7 Frequency Stability Data



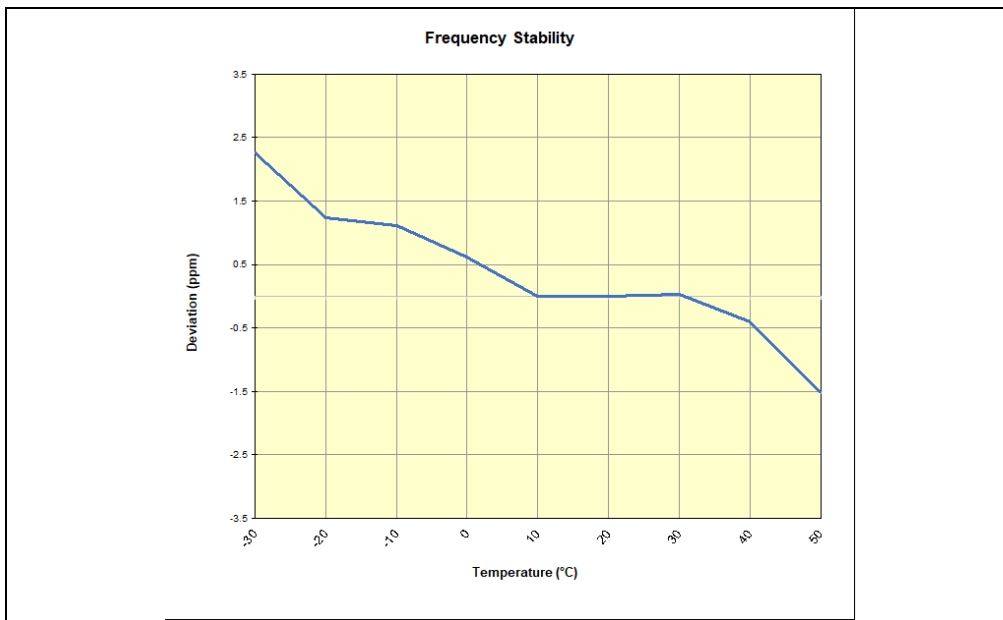
Plot 7-303. LTE Band 7 Frequency Stability Chart

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 210 of 214

LTE Band 41/38

LTE Band 41 PC2					
		Operating Frequency (Hz):		2,593,000,000	
		Ref. Voltage (VDC):		4.43	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	2,593,405,907	5,870	0.0002263
		- 20	2,593,403,257	3,220	0.0001242
		- 10	2,593,402,933	2,896	0.0001117
		0	2,593,401,630	1,593	0.0000614
		+ 10	2,593,400,042	4	0.0000002
		+ 20 (Ref)	2,593,400,037	0	0.0000000
		+ 30	2,593,400,104	67	0.0000026
		+ 40	2,593,398,997	-1,040	-0.0000401
		+ 50	2,593,396,092	-3,945	-0.0001521
Battery Endpoint	3.27	+ 20	2,593,400,005	-32	-0.0000012

Table 7-91. LTE Band 41/38 Frequency Stability Data



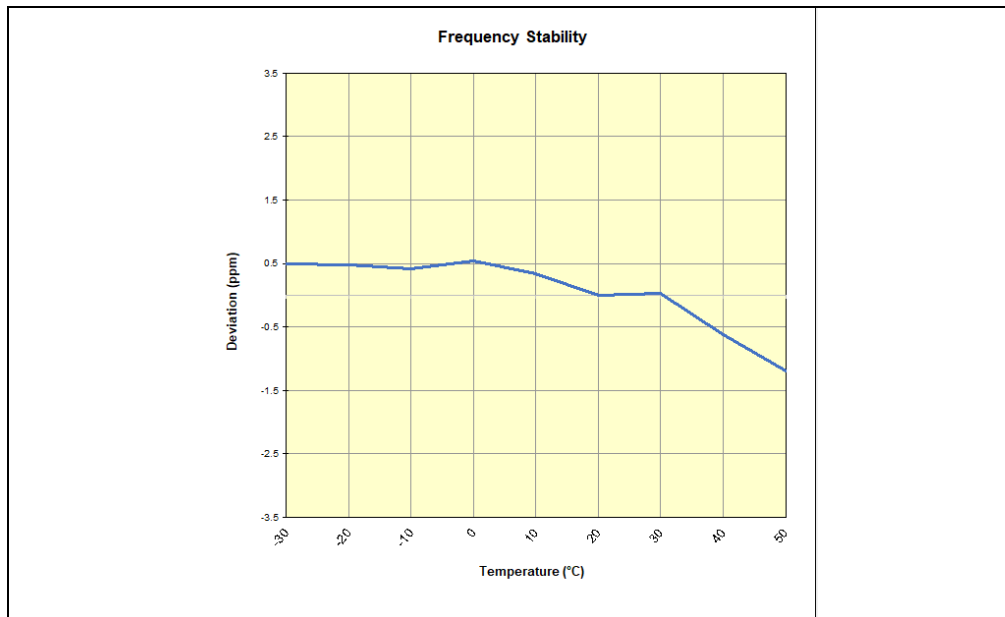
Plot 7-304. LTE Band 41/38 Frequency Stability Chart

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 211 of 214

NR Band n30

NR Band n30					
		Operating Frequency (Hz):		2,310,000,000	
		Ref. Voltage (VDC):		4.43	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	2,310,142,242	1,130	0.0000489
		- 20	2,310,142,231	1,118	0.0000484
		- 10	2,310,142,074	961	0.0000416
		0	2,310,142,358	1,245	0.0000539
		+ 10	2,310,141,909	796	0.0000345
		+ 20 (Ref)	2,310,141,113	0	0.0000000
		+ 30	2,310,141,170	57	0.0000025
		+ 40	2,310,139,678	-1,434	-0.0000621
		+ 50	2,310,138,368	-2,745	-0.0001188
Battery Endpoint	3.27	+ 20	2,310,141,100	-13	-0.0000005

Table 7-92. NR Band n30 Frequency Stability Data



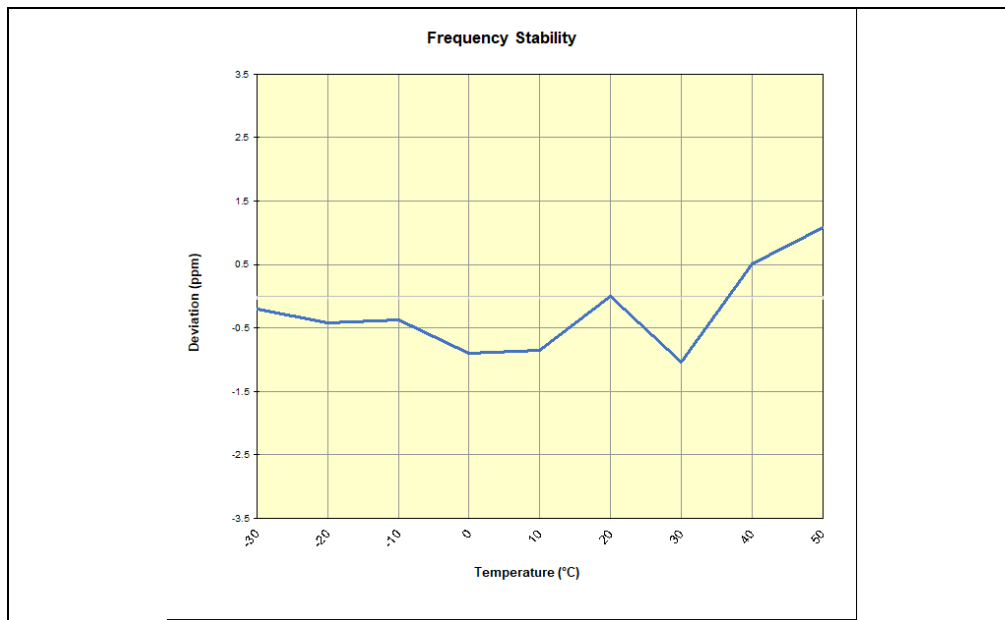
Plot 7-305. NR Band n30 Frequency Stability Chart

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 212 of 214

NR Band n41

NR Band n41					
		Operating Frequency (Hz):		2,593,000,000	
		Ref. Voltage (VDC):		4.43	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	2,593,052,826	-542	-0.0000209
		- 20	2,593,052,289	-1,080	-0.0000416
		- 10	2,593,052,415	-953	-0.0000368
		0	2,593,051,055	-2,313	-0.0000892
		+ 10	2,593,051,171	-2,198	-0.0000848
		+ 20 (Ref)	2,593,053,368	0	0.0000000
		+ 30	2,593,050,693	-2,675	-0.0001032
		+ 40	2,593,054,698	1,329	0.0000513
		+ 50	2,593,056,190	2,822	0.0001088
Battery Endpoint	3.27	+ 20	2,593,053,300	-68	-0.0000026

Table 7-93. NR Band n41 Frequency Stability Data



Plot 7-306. NR Band n41 Frequency Stability Chart

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 213 of 214

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS711U** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-08.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 214 of 214