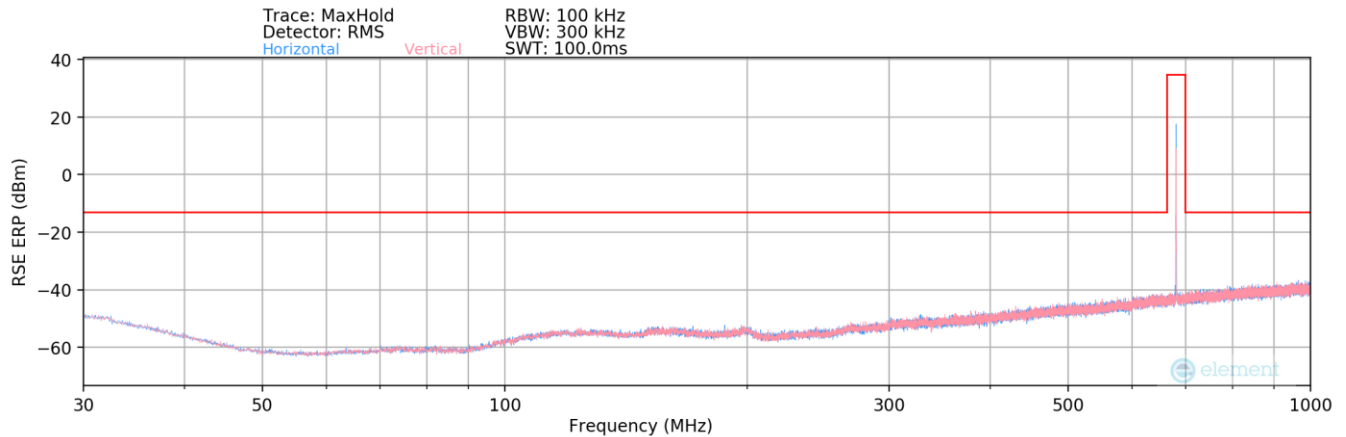
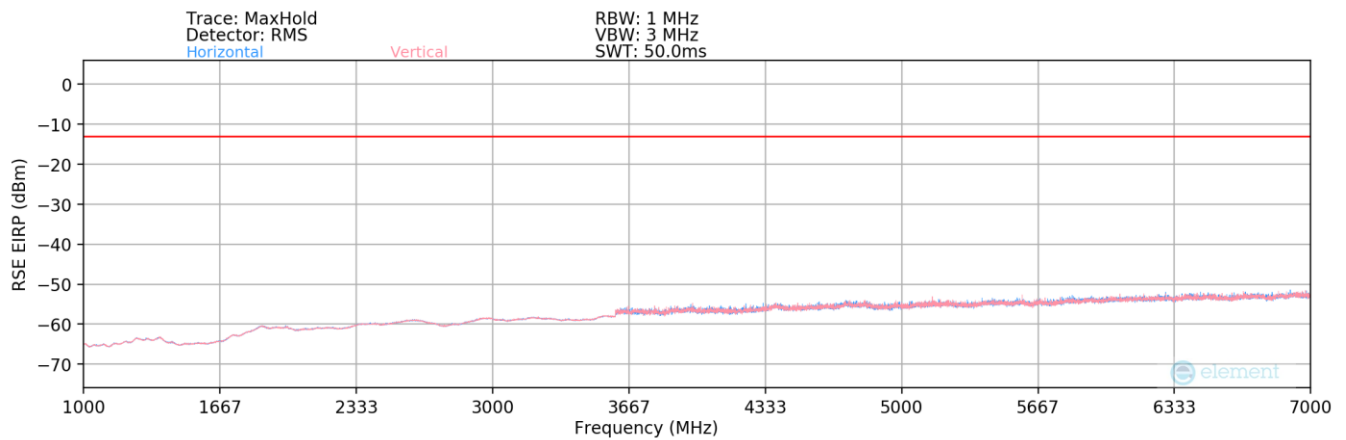


NR Band n71 – Ant A



Plot 7-468. Radiated Spurious Plot (NR n71 – Ant A)



Plot 7-469. Radiated Spurious Plot (NR n71 – Ant A)

Mode:	Stand Alone
Channel:	136100
Frequency (MHz):	680.5
Detector / Trace Mode:	RMS / Average
RBW / VBW:	100kHz / 300kHz

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]
484.00	V	-	-	-96.76	25.78	36.02	-61.39	-13.00	-48.39

Table 7-37. Radiated Spurious Data (NR Band n71 – Ant A)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 280 of 322

Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 53
Detector / Trace Mode:	RMS / Average

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]
1346.00	V	-	-	-76.94	-2.81	27.25	-68.01	-13.00	-55.01
2019.00	V	-	-	-76.74	-0.40	29.86	-65.39	-13.00	-52.39
2692.00	V	-	-	-77.56	1.27	30.71	-64.55	-13.00	-51.55

Table 7-38. Radiated Spurious Data (NR Band n71 – Low Channel – Ant A)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 53
Detector / Trace Mode:	RMS / Average

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]
1361.00	V	-	-	-76.29	-2.67	28.04	-67.22	-13.00	-54.22
2041.50	V	-	-	-77.09	-0.51	29.40	-65.86	-13.00	-52.86
2722.00	V	-	-	-77.24	0.77	30.53	-64.72	-13.00	-51.72

Table 7-39. Radiated Spurious Data (NR Band n71 – Mid Channel – Ant A)

Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 53
Detector / Trace Mode:	RMS / Average

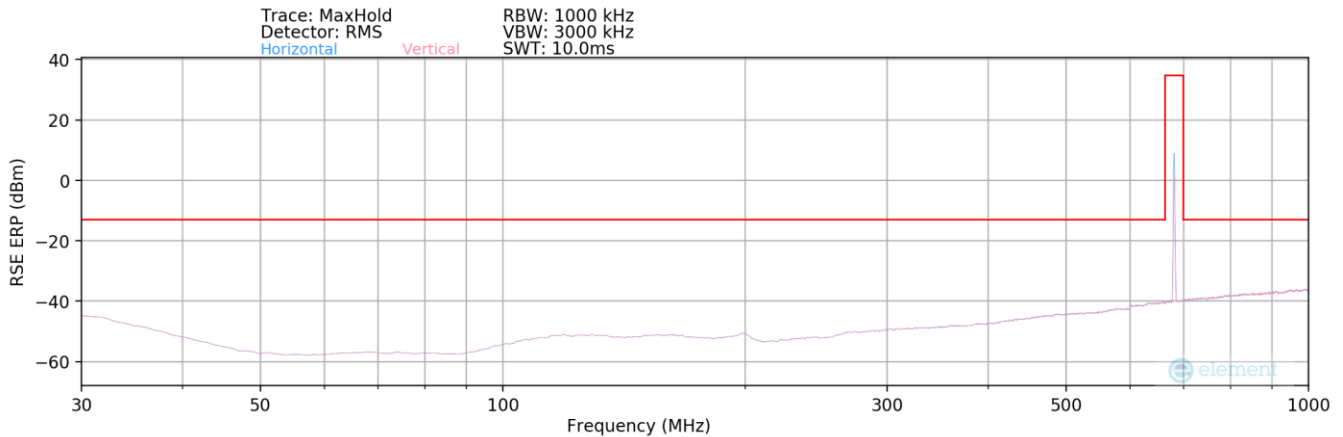
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	V	-	-	-76.26	-2.84	27.90	-67.36	-13.00	-54.36
2064.00	V	-	-	-77.00	-0.49	29.51	-65.74	-13.00	-52.74
2752.00	V	-	-	-77.46	0.47	30.01	-65.24	-13.00	-52.24

Table 7-40. Radiated Spurious Data (NR Band n71 – High Channel – Ant A)

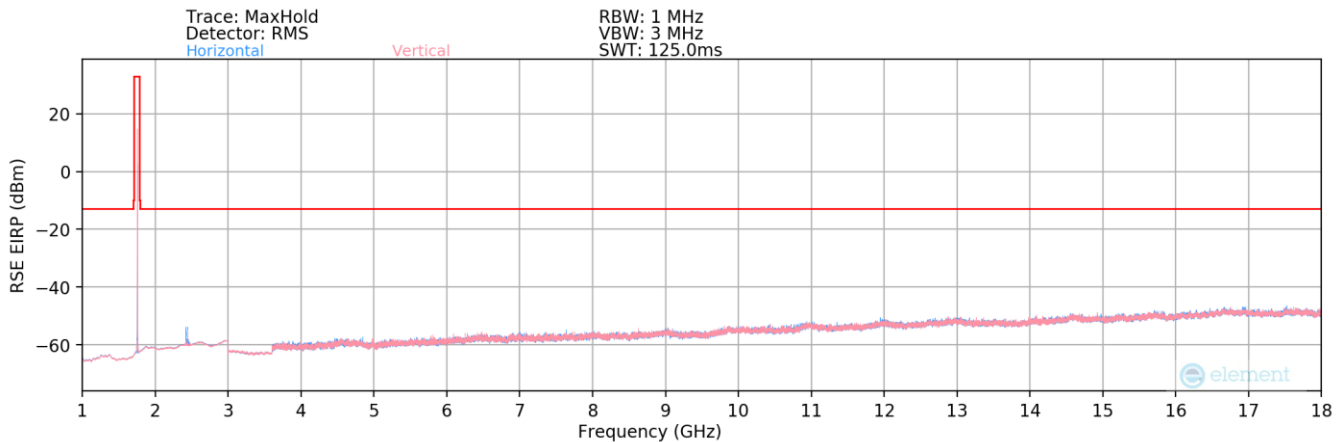
FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 281 of 322



EN-DC NR Band n71 – LTE Band B66 [Ant A]



Plot 7-470. Radiated Spurious Plot (NR n71 – LTE B66 [Ant A])



Plot 7-471. Radiated Spurious Plot (NR n71 – LTE B66 [Ant A])

Bandwidth (MHz):	20 & 20
Frequency (MHz):	680.5 & 1745
RB / Offset:	1/53 & 1/50
Mode:	EN-DC
Anchor Band:	B66

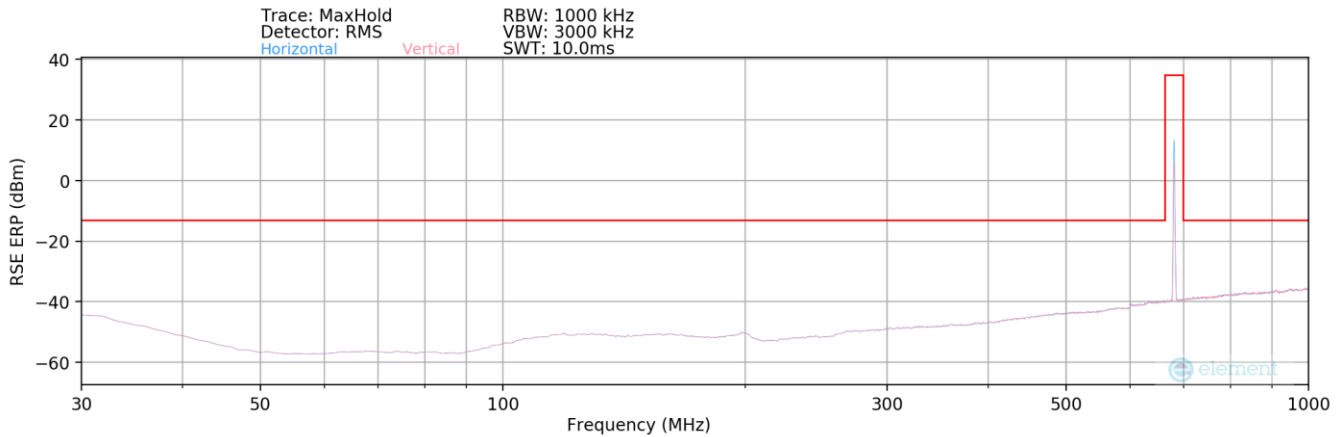
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
593.00	H	-	-	-101.13	27.13	33.00	-62.26	-13.00	-49.26
2429.00	H	263	206	-68.63	0.62	38.99	-56.27	-13.00	-43.27
3106.00	H	-	-	-74.21	3.10	35.89	-59.37	-13.00	-46.37
3874.00	H	-	-	-77.14	3.17	33.03	-62.22	-13.00	-49.22
4258.00	H	-	-	-76.67	3.37	33.70	-61.56	-13.00	-48.56

Table 7-41. Radiated Spurious Data (NR Band n71 – LTE B66 [Ant A])

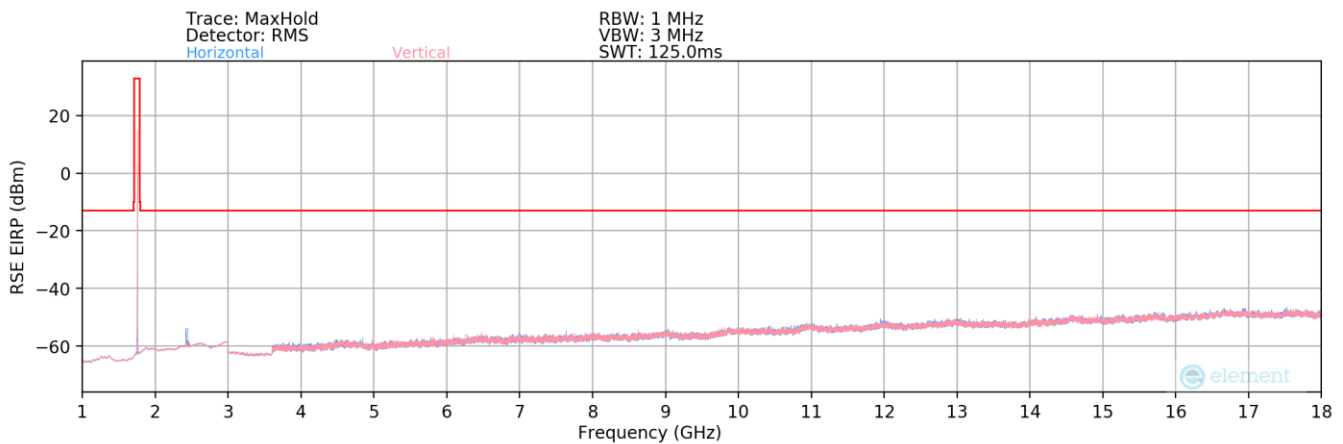
FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 282 of 322



EN-DC NR Band n71 – LTE Band B66 [Ant F]



Plot 7-472. Radiated Spurious Plot (NR n71 – LTE B66 [Ant F])



Plot 7-473. Radiated Spurious Plot (NR n71 – LTE B66 [Ant F])

Bandwidth (MHz):	20 / 10
Frequency (MHz):	673 / 1745
RB / Offset:	1 / 53 & 1 / 25
Mode:	EN-DC
Anchor Band:	66

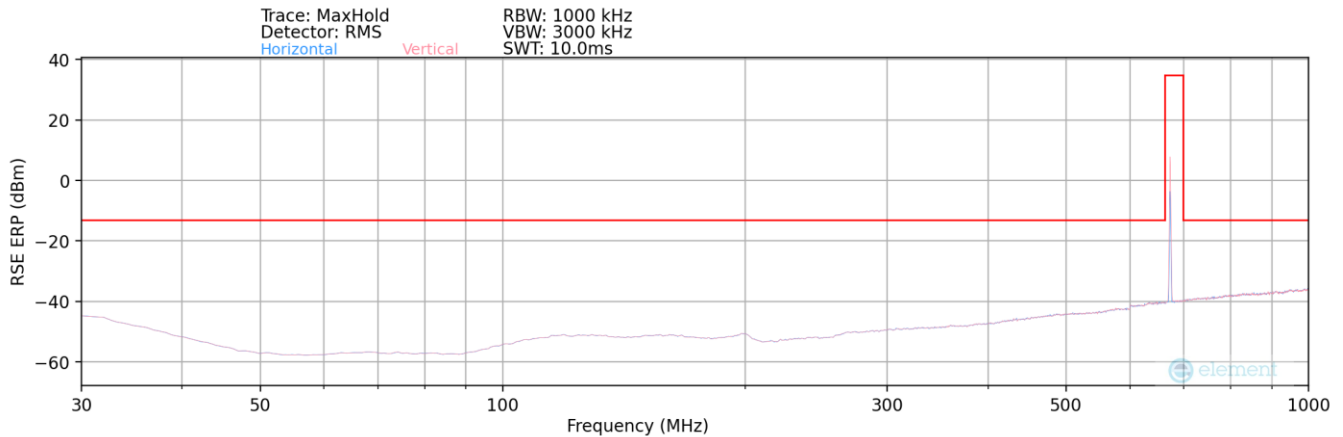
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1032.00	H	199	211	-76.94	-4.83	25.23	-70.03	-13.00	-57.03
3440.00	H	144	194	-55.05	1.71	53.66	-41.60	-13.00	-28.60
5160.00	H	145	194	-39.19	4.96	72.77	-22.49	-13.00	-9.49
6880.00	H	147	202	-63.92	7.15	50.23	-45.03	-13.00	-32.03
8600.00	H	200	208	-76.80	8.02	38.22	-57.04	-13.00	-44.04

Table 7-42. Radiated Spurious Data (NR Band n71 – LTE B66 [Ant F])

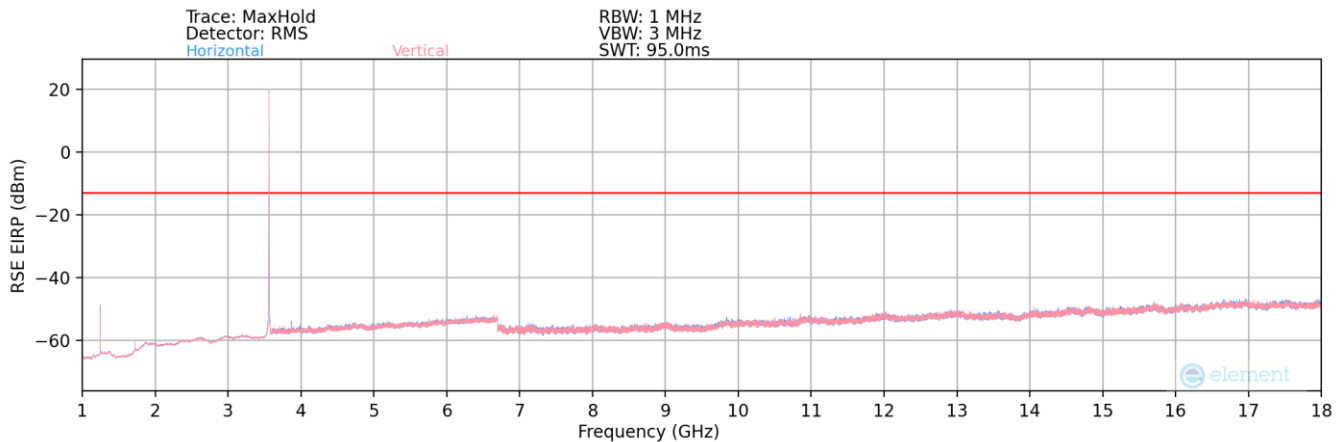
FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 283 of 322



EN-DC NR Band n71 – LTE Band B48



Plot 7-474. Radiated Spurious Plot (NR n71 – LTE B48)



Plot 7-475. Radiated Spurious Plot (NR n71 – LTE B48)

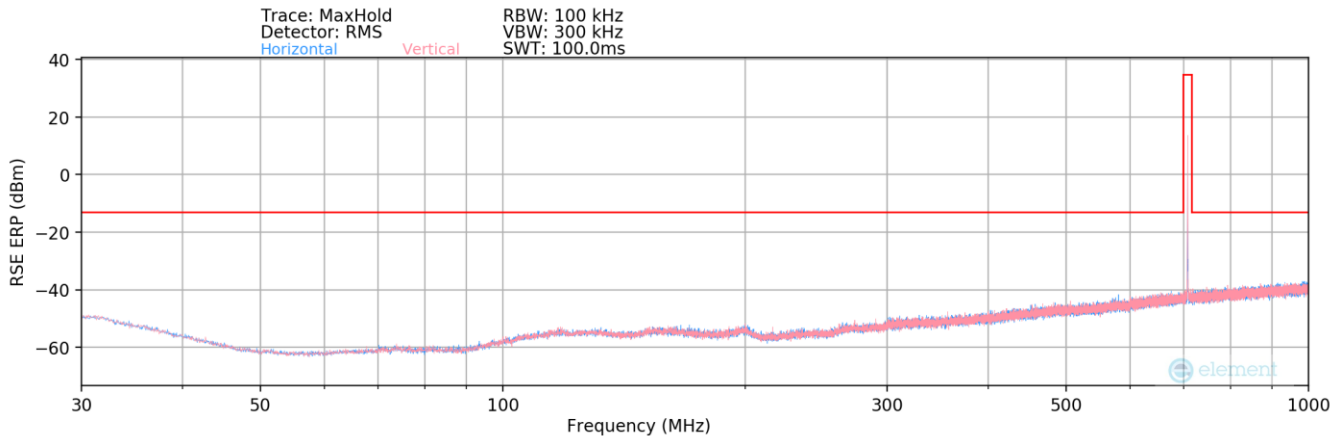
Bandwidth (MHz):	20 / 20
Frequency (MHz):	673 / 3625
RB / Offset:	1/53 & 1/50
Mode:	EN-DC
Anchor Band:	B48

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]
405.00	H	-	-	-98.09	23.40	32.31	-62.95	-13.00	-49.95
1151.00	H	-	-	-77.58	-4.33	25.09	-70.17	-13.00	-57.17
2887.00	H	-	-	-78.48	1.37	29.89	-65.37	-13.00	-52.37
4233.00	H	-	-	-79.24	2.93	30.69	-64.57	-13.00	-51.57
6642.00	H	-	-	-79.66	8.21	35.55	-59.71	-13.00	-46.71

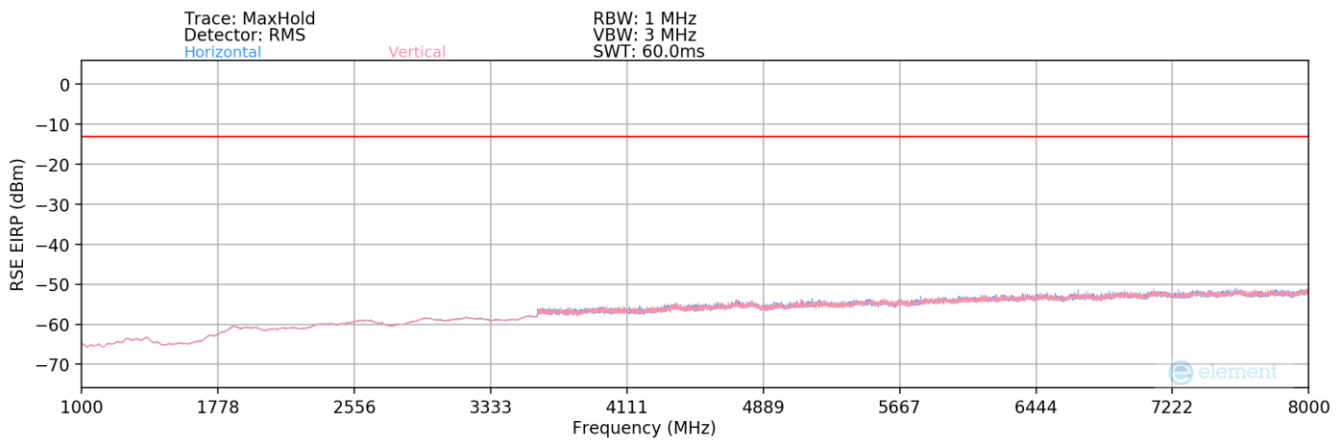
Table 7-43. Radiated Spurious Data (NR Band n71 – LTE B48)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 284 of 322

NR Band n12 – Ant A



Plot 7-476. Radiated Spurious Plot (NR n12 – Ant A)



Plot 7-477. Radiated Spurious Plot (NR n12 – Ant A)

Mode:	Stand Alone
Channel:	23095
Frequency (MHz):	707.5
Detector / Trace Mode:	RMS / Average
RBW / VBW:	100kHz / 300kHz

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]
177.00	H	-	-	-97.13	18.92	28.79	-68.62	-13.00	-55.62

Table 7-44. Radiated Spurious Data (NR Band n12 – Ant A)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 285 of 322

Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 39
Detector / Trace Mode:	RMS / Average

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]
1413.00	H	-	-	-76.82	-3.70	26.48	-68.78	-13.00	-55.78
2119.50	H	161	38	-77.63	-0.20	29.17	-66.09	-13.00	-53.09
2826.00	H	-	-	-77.52	0.84	30.32	-64.94	-13.00	-51.94
3532.50	H	-	-	-77.80	2.52	31.72	-63.54	-13.00	-50.54
4239.00	H	-	-	-77.85	2.95	32.10	-63.16	-13.00	-50.16

Table 7-45. Radiated Spurious Data (NR Band n12 – Low Channel – Ant A)

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 39
Detector / Trace Mode:	RMS / Average

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]
1415.00	H	-	-	-76.43	-3.73	26.84	-68.42	-13.00	-55.42
2122.50	H	150	340	-77.40	-0.18	29.42	-65.84	-13.00	-52.84
2830.00	H	-	-	-77.65	0.85	30.20	-65.06	-13.00	-52.06
3537.50	H	-	-	-77.83	2.58	31.75	-63.50	-13.00	-50.50
4245.00	H	-	-	-77.97	2.96	31.99	-63.26	-13.00	-50.26

Table 7-46. Radiated Spurious Data (NR Band n12 – Mid Channel – Ant A)

Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 39
Detector / Trace Mode:	RMS / Average

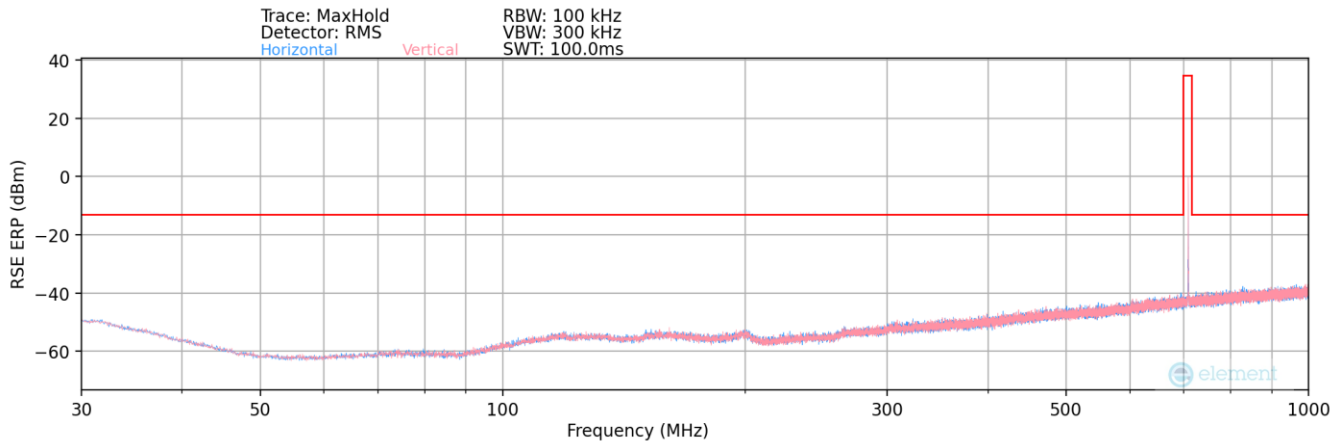
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.00	H	-	-	-76.57	-3.76	26.67	-68.59	-13.00	-55.59
2125.50	H	-	-	-77.54	-0.17	29.29	-65.97	-13.00	-52.97
2834.00	H	-	-	-77.62	0.88	30.26	-65.00	-13.00	-52.00

Table 7-47. Radiated Spurious Data (NR Band n12 – High Channel – Ant A)

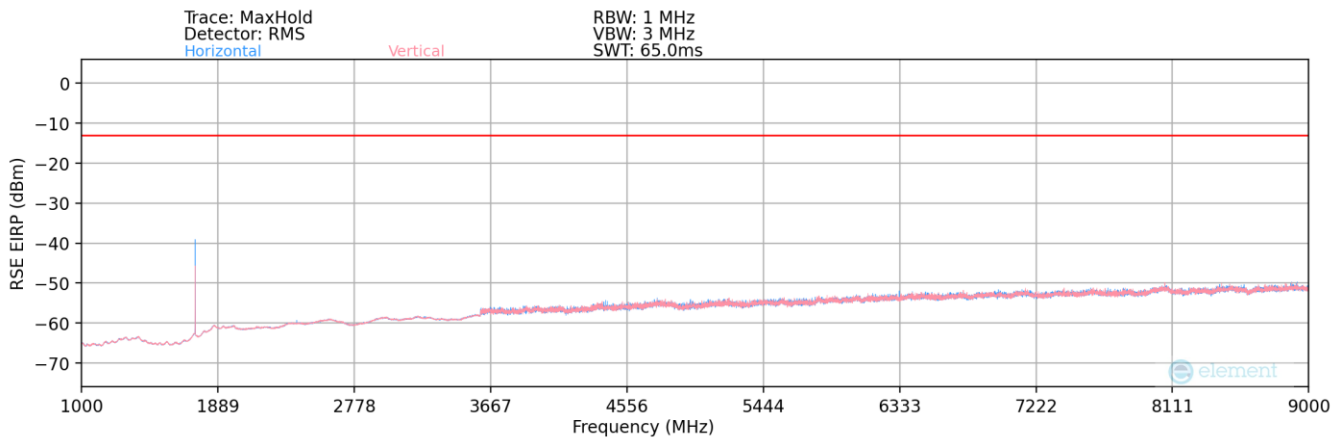
FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 286 of 322



EN-DC NR Band n12 – LTE Band B66 [Ant A]



Plot 7-478. Radiated Spurious Plot (NR n12 – LTE B66 [Ant A])



Plot 7-479. Radiated Spurious Plot (NR n12 – LTE B66 [Ant A])

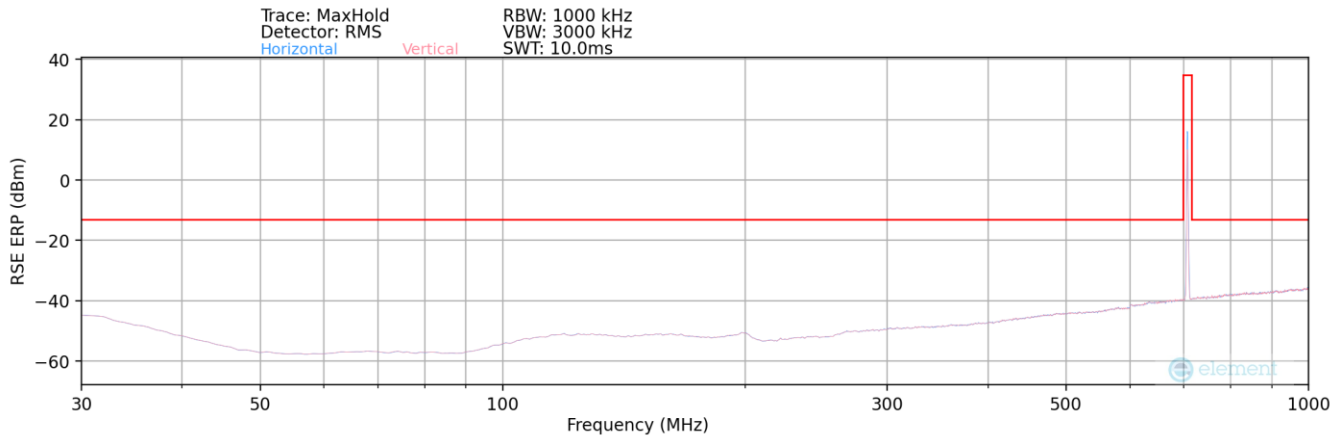
Bandwidth (MHz):	40 / 10
Frequency (MHz):	1880 / 707.5
RB / Offset:	1/53 & 1/25
Mode:	EN-DC
Anchor Band:	B66

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]
330.00	H	-	-	-86.09	21.82	42.73	-52.53	-13.00	-39.53
1415.00	H	390	189	-70.52	-2.27	34.21	-61.05	-13.00	-48.05
2122.50	H	-	-	-71.42	0.56	36.14	-59.12	-13.00	-46.12
2830.00	H	-	-	-72.06	1.16	36.10	-59.16	-13.00	-46.16
3537.50	H	-	-	-72.26	2.91	37.65	-57.60	-13.00	-44.60
4245.00	H	-	-	-75.50	3.30	34.80	-60.46	-13.00	-47.46

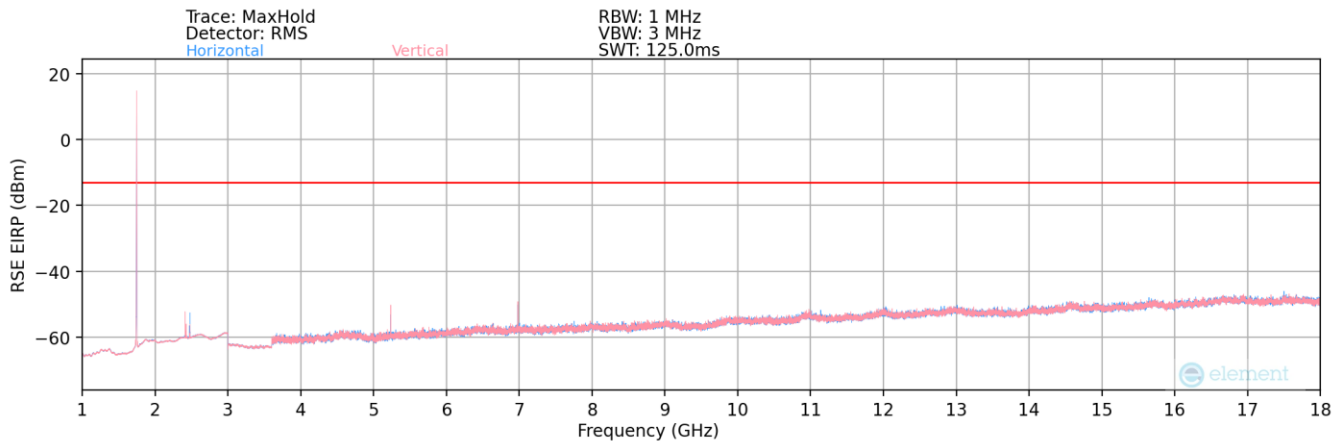
Table 7-48. Radiated Spurious Data (NR Band n12 – LTE B66 [Ant A])

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 287 of 322

EN-DC NR Band n12 – LTE Band B66 [Ant F]



Plot 7-480. Radiated Spurious Plot (NR n12 – LTE B66 [Ant F])



Plot 7-481. Radiated Spurious Plot (NR n12 – LTE B66 [Ant F])

Bandwidth (MHz):	15 & 20
Frequency (MHz):	707.5 & 1745
RB / Offset:	1 / 37 & 1/50
Mode:	EN-DC
Anchor Band:	B66

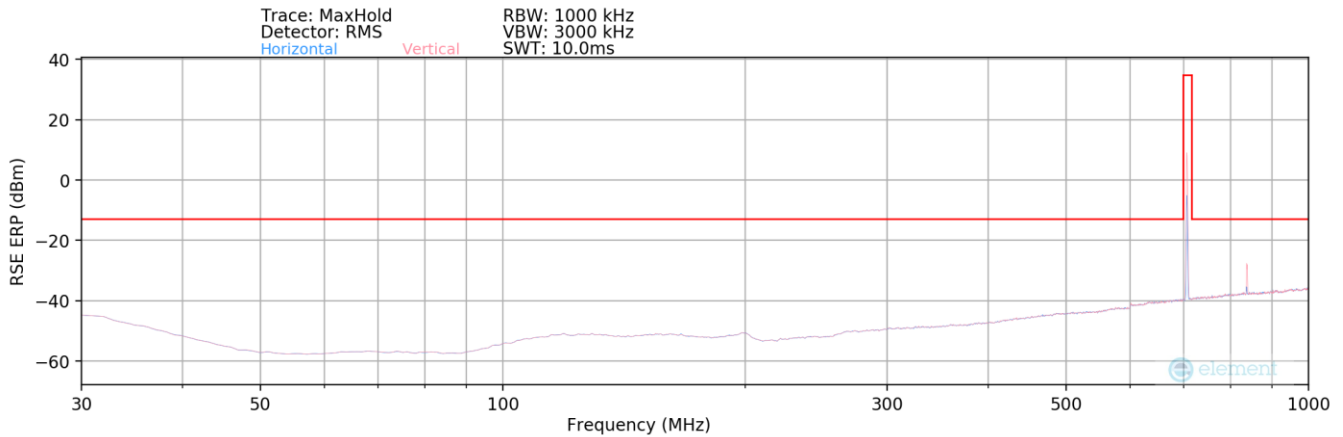
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
330.00	V	-	-	-108.56	21.82	20.26	-75.00	-13.00	-62.00
2418.00	V	121	133	-65.20	0.63	42.43	-52.83	-13.00	-39.83
5235.00	V	119	23	-73.58	5.03	38.45	-56.81	-13.00	-43.81
6980.00	V	120	24	-73.23	7.03	40.80	-54.46	-13.00	-41.46
7405.00	V	-	-	-79.72	7.43	34.71	-60.55	-13.00	-47.55
8065.00	V	-	-	-80.16	8.14	34.98	-60.28	-13.00	-47.28
8725.00	V	-	-	-80.34	8.37	35.03	-60.23	-13.00	-47.23

Table 7-49. Radiated Spurious Data (NR Band n12 – LTE B66 [Ant F])

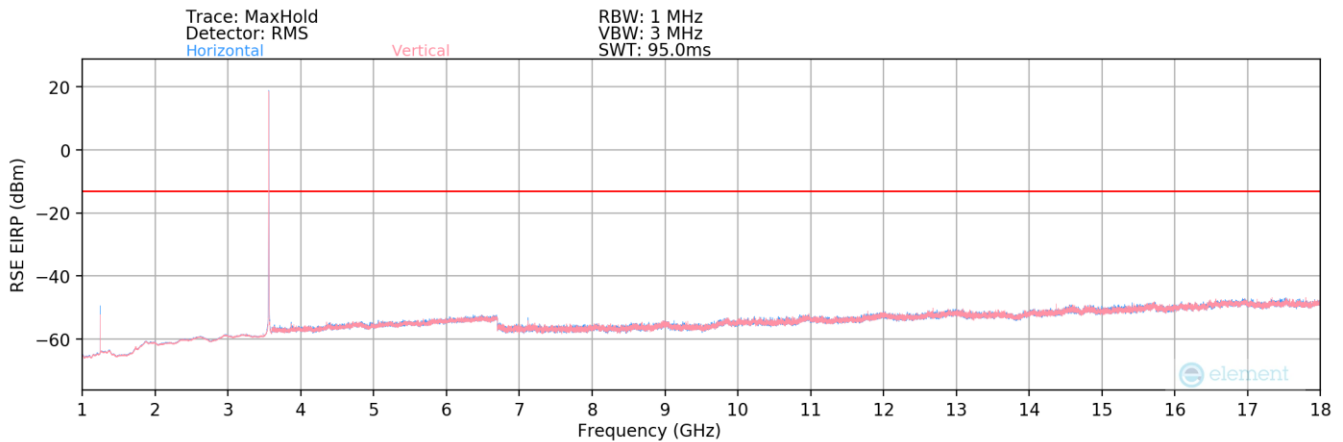
FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 288 of 322



EN-DC NR Band n12 – LTE Band B48



Plot 7-482. Radiated Spurious Plot (NR n12 – LTE B48)



Plot 7-483. Radiated Spurious Plot (NR n12 – LTE B48)

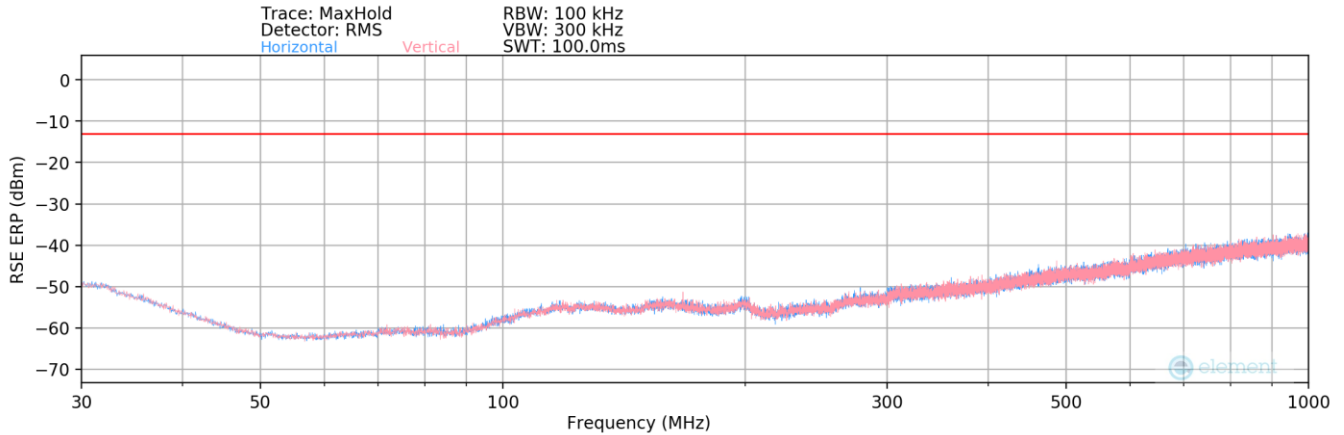
Bandwidth (MHz):	15 / 20
Frequency (MHz):	707.5 / 3625
RB / Offset:	1 / 39 & 1 / 50
Mode:	EN-DC
Anchor Band:	B48

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]
730.00	H	-	-	-89.82	29.41	46.59	-48.67	-13.00	-35.67
1437.50	H	-	-	-74.09	-4.03	28.88	-66.38	-13.00	-53.38
2145.00	H	-	-	-73.14	-0.09	33.77	-61.48	-13.00	-48.48
2852.50	H	-	-	-74.59	1.13	33.54	-61.72	-13.00	-48.72

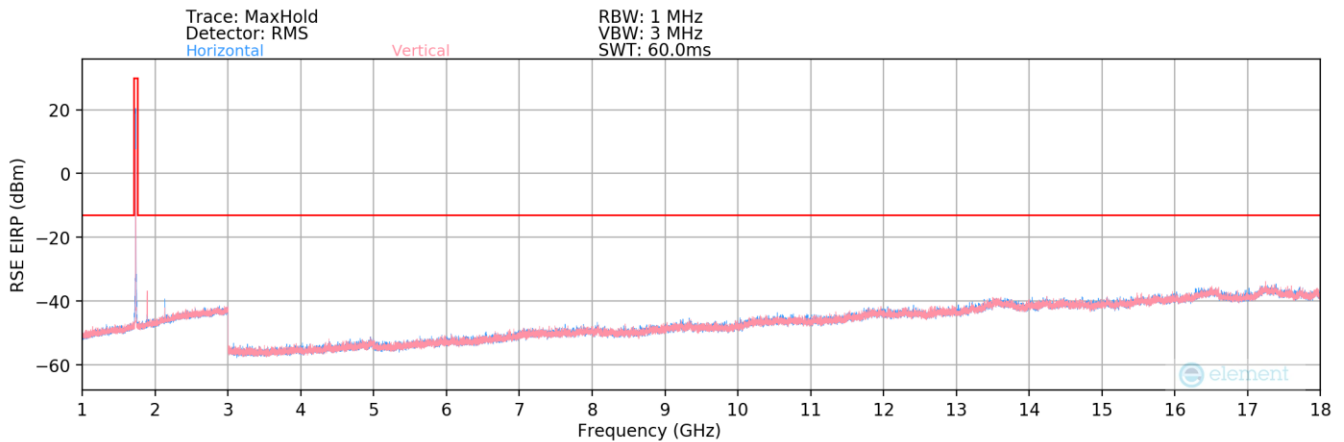
Table 7-50. Radiated Spurious Data (NR Band n12 – LTE B48)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 289 of 322

WCDMA AWS – Ant A



Plot 7-484. Radiated Spurious Plot (WCDMA AWS – Ant A)



Plot 7-485. Radiated Spurious Plot (WCDMA AWS – Ant A)

Mode:	Stand Alone
Channel:	1413
Frequency (MHz):	1732.6
Detector / Trace Mode:	RMS / Average
RBW / VBW:	100kHz / 300kHz

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]
71.80	V	-	-	-109.25	14.61	12.36	-85.05	-13.00	-72.05
167.30	V	-	-	-109.22	19.65	17.43	-79.98	-13.00	-66.98

7-51. Radiated Spurious Data (WCDMA AWS – Ant A)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 290 of 322

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

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]
3424.80	V	-	-	-79.85	7.01	34.16	-61.09	-13.00	-48.09
5137.20	V	-	-	-80.95	10.64	36.69	-58.57	-13.00	-45.57
6849.60	V	-	-	-82.18	14.02	38.84	-56.41	-13.00	-43.41

7-52. Radiated Spurious Data (WCDMA AWS – Low Channel – Ant A)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

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]
3465.20	V	-	-	-79.90	6.93	34.03	-61.23	-13.00	-48.23
5197.80	V	-	-	-81.26	10.26	36.00	-59.26	-13.00	-46.26
6930.40	V	-	-	-81.68	13.75	39.07	-56.19	-13.00	-43.19

Table 7-53. Radiated Spurious Data (WCDMA AWS – Mid Channel – Ant A)

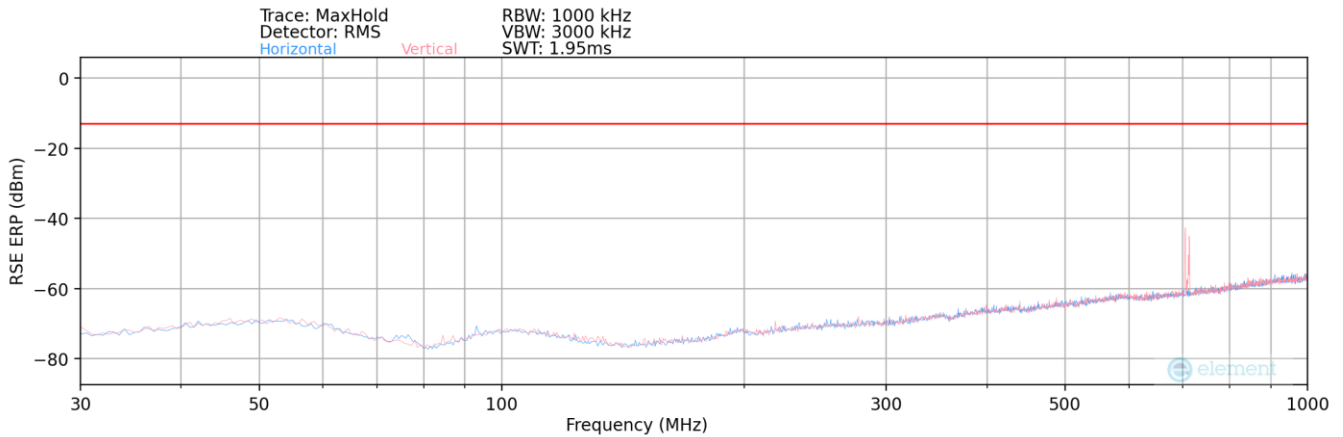
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

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]
3505.20	V	-	-	-80.21	7.09	33.88	-61.38	-13.00	-48.38
5257.80	V	-	-	-81.38	10.14	35.76	-59.50	-13.00	-46.50
7010.40	V	-	-	-82.13	14.52	39.39	-55.86	-13.00	-42.86

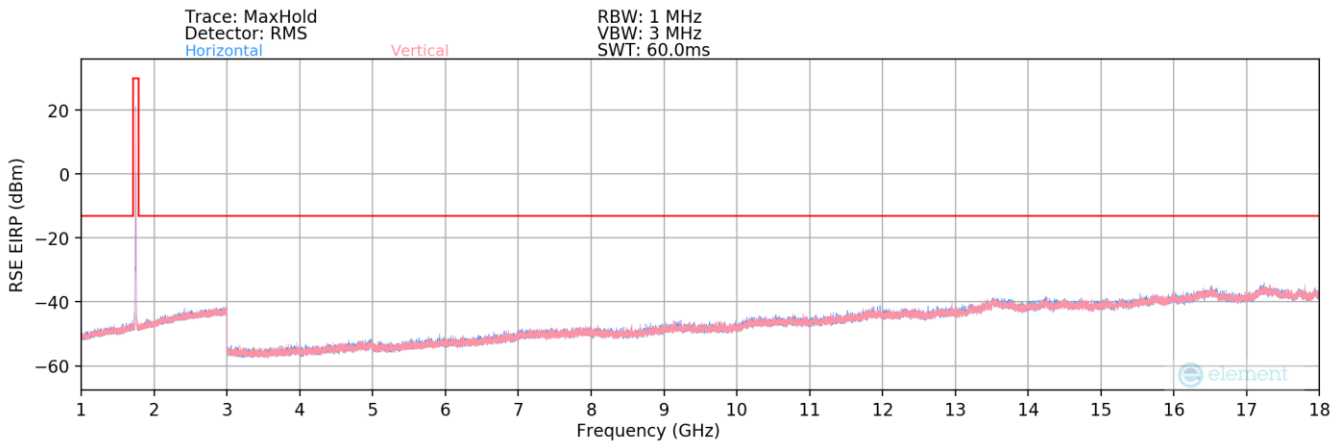
Table 7-54. Radiated Spurious Data (WCDMA AWS – High Channel – Ant A)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 291 of 322

LTE Band 66/4 – Ant A



Plot 7-486. Radiated Spurious Plot (LTE Band 66/4 – Ant A)



Plot 7-487. Radiated Spurious Plot (LTE Band 66/4 – Ant A)

Mode:	Stand Alone
Channel:	Mid
Frequency (MHz):	1745
Detector / Trace Mode:	RMS / Average
RBW / VBW:	100kHz / 300kHz

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]
714.16	V	-	-	-80.17	-6.53	20.30	-77.11	-13.00	-64.11

Table 7-55. Radiated Spurious Data (LTE Band 66/4 – Ant A)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 292 of 322



Bandwidth (MHz):	20
Frequency (MHz):	1720
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]
3440.00	V	-	-	-79.59	5.49	32.90	-62.35	-13.00	-49.35
5160.00	V	-	-	-81.55	7.98	33.43	-61.83	-13.00	-48.83
6880.00	V	-	-	-81.97	11.68	36.71	-58.55	-13.00	-45.55

Table 7-56. Radiated Spurious Data (LTE Band 66/4 – Low Channel – Ant A)

Bandwidth (MHz):	20
Frequency (MHz):	1745
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]
3490.00	V	-	-	-79.87	5.35	32.48	-62.78	-13.00	-49.78
5235.00	V	-	-	-81.25	7.92	33.67	-61.59	-13.00	-48.59
6980.00	V	-	-	-81.97	10.90	35.93	-59.33	-13.00	-46.33

Table 7-57. Radiated Spurious Data (LTE Band 66/4 – Mid Channel – Ant A)

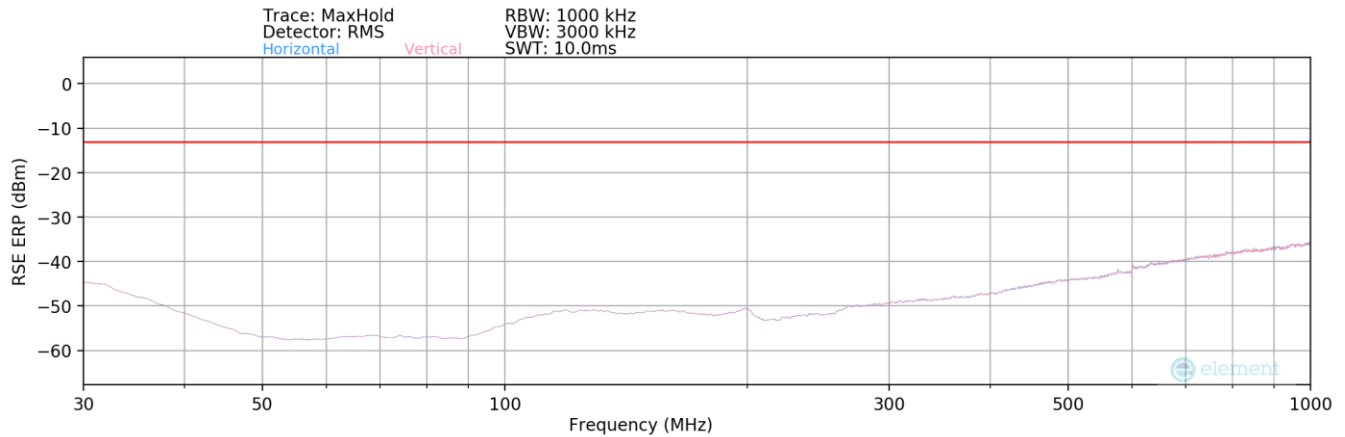
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

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]
3540.00	V	-	-	-80.00	5.19	32.19	-63.07	-13.00	-50.07
5310.00	V	-	-	-81.71	8.26	33.55	-61.70	-13.00	-48.70
7080.00	V	-	-	-82.20	11.45	36.25	-59.01	-13.00	-46.01

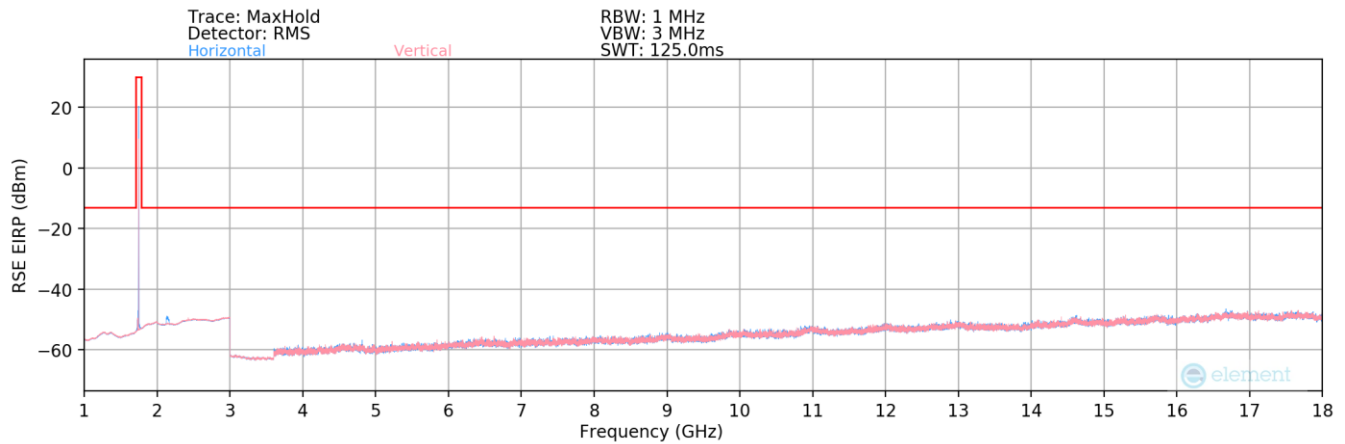
Table 7-58. Radiated Spurious Data (LTE Band 66/4 – High Channel – Ant A)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 293 of 322

NR Band n66 – Ant A



Plot 7-488. Radiated Spurious Plot (NR Band n66 – Ant A)



Plot 7-489. Radiated Spurious Plot (NR Band n66 – Ant A)

Mode:	Stand Alone
Channel:	132322
Frequency (MHz):	1745
Detector / Trace Mode:	RMS / Average
RBW / VBW:	100kHz / 300kHz

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]
133.00	V	-	-	-90.92	20.09	36.17	-61.24	-13.00	-48.24

Table 7-59. Radiated Spurious Data (NR Band n66 – Ant A)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 294 of 322

Bandwidth (MHz):	40
Frequency (MHz):	1730
RB / Offset:	1 / 108
Detector / Trace Mode:	RMS / Average

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]
3460.00	V	171	336	-77.79	2.84	32.05	-63.21	-13.00	-50.21
5190.00	V	-	-	-79.40	5.07	32.67	-62.59	-13.00	-49.59
6920.00	V	-	-	-79.65	7.36	34.71	-60.55	-13.00	-47.55
8650.00	V	-	-	-80.84	8.90	35.06	-60.20	-13.00	-47.20

Table 7-60. Radiated Spurious Data (NR Band n66 – Low Channel – Ant A)

Bandwidth (MHz):	40
Frequency (MHz):	1745
RB / Offset:	1 / 108
Detector / Trace Mode:	RMS / Average

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]
3490.00	V	162	280	-77.27	2.54	32.27	-62.99	-13.00	-49.99
5235.00	V	-	-	-79.29	5.03	32.74	-62.52	-13.00	-49.52
6980.00	V	-	-	-79.21	7.03	34.82	-60.44	-13.00	-47.44
8725.00	V	-	-	-80.37	8.37	35.00	-60.26	-13.00	-47.26

Table 7-61. Radiated Spurious Data (NR Band n66 – Mid Channel – Ant A)

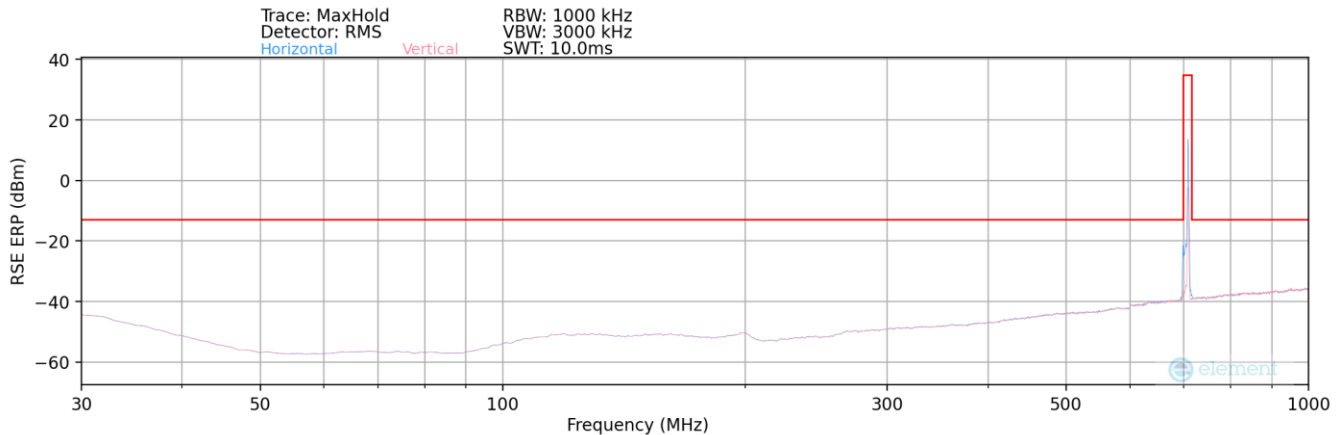
Bandwidth (MHz):	40
Frequency (MHz):	1760
RB / Offset:	1 / 108
Detector / Trace Mode:	RMS / Average

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]
3520.00	V	148	291	-77.23	2.60	32.37	-62.88	-13.00	-49.88
5280.00	V	-	-	-79.21	4.75	32.54	-62.72	-13.00	-49.72
7040.00	V	-	-	-79.35	6.88	34.53	-60.73	-13.00	-47.73
8800.00	V	-	-	-80.03	8.29	35.26	-60.00	-13.00	-47.00

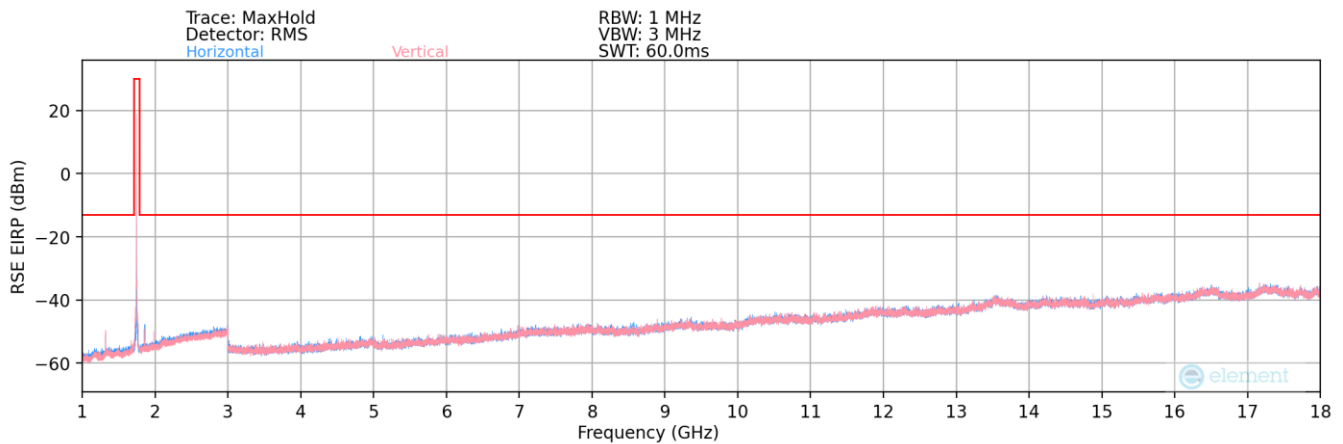
Table 7-62. Radiated Spurious Data (NR Band n66 – High Channel – Ant A)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 295 of 322

EN-DC NR Band n66 [Ant A] – LTE Band B12 [Ant A]



Plot 7-490. Radiated Spurious Plot (NR n66 [Ant A] – LTE B12 [Ant A])



Plot 7-491. Radiated Spurious Plot (NR n66 [Ant A] – LTE B12 [Ant A])

Bandwidth (MHz):	40 & 10
Frequency (MHz):	1745 & 707.5
RB / Offset:	1 / 108 & 1 / 25
Mode:	EN-DC
Anchor Band:	12

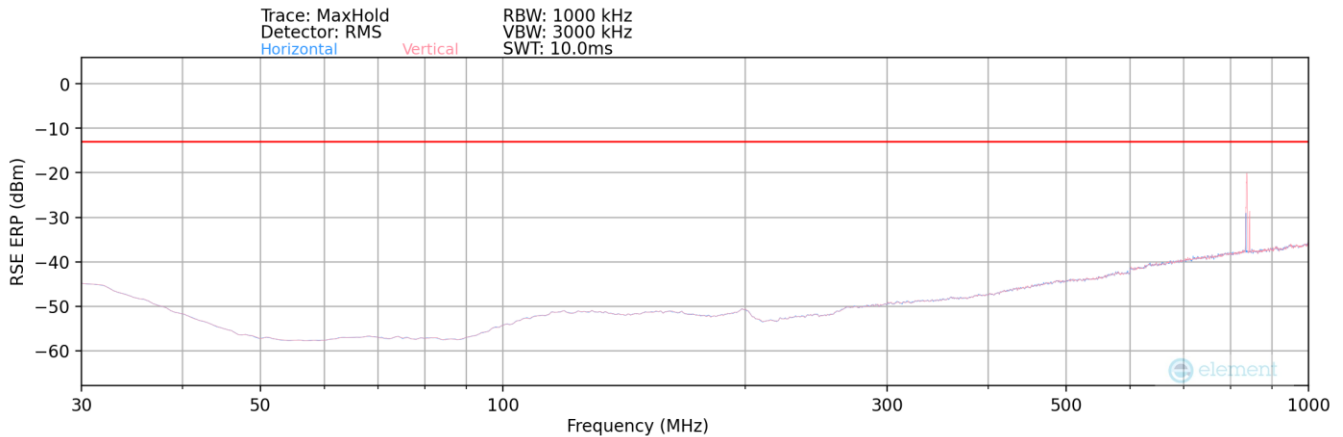
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
330.00	H	-	-	-108.75	21.82	20.07	-75.19	-13.00	-62.19
2421.00	V	120	209	-60.16	0.61	47.45	-47.80	-13.00	-34.80
5235.00	V	369	220	-70.31	5.03	41.72	-53.54	-13.00	-40.54
5660.00	V	-	-	-78.96	5.44	33.48	-61.78	-13.00	-48.78
6320.00	V	-	-	-79.05	6.49	34.44	-60.82	-13.00	-47.82
7075.00	V	-	-	-79.26	7.09	34.83	-60.43	-13.00	-47.43

Table 7-63. Radiated Spurious Data (NR n66 [Ant A] – LTE B12 [Ant A])

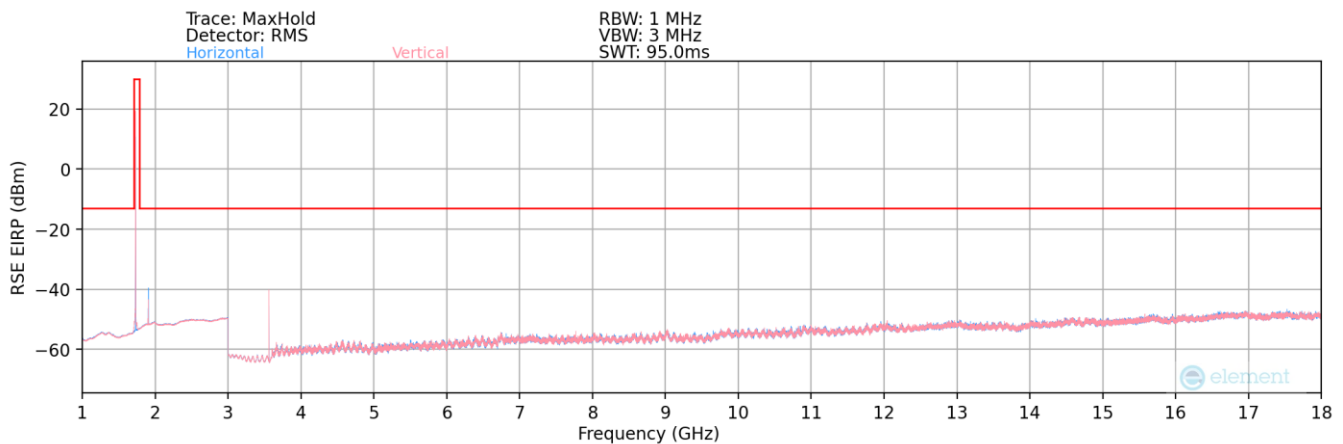
FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 296 of 322



EN-DC NR Band n66 [Ant A] – LTE Band B48 [Ant F]



Plot 7-492. Radiated Spurious Plot (NR n66 [Ant A] – LTE B48 [Ant F])



Plot 7-493. Radiated Spurious Plot (NR n66 [Ant A] – LTE B48 [Ant F])

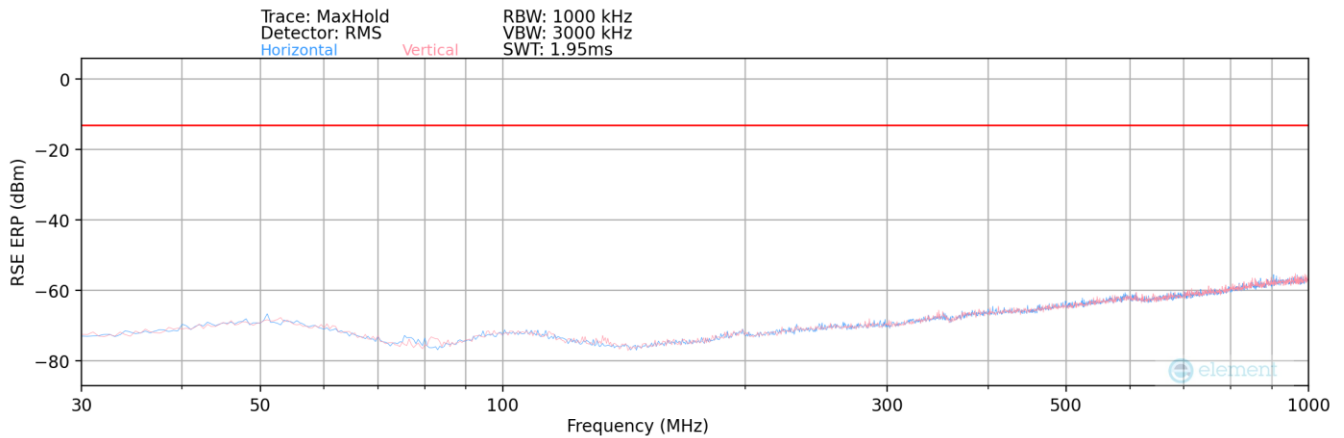
Bandwidth (MHz):	40 / 20
Frequency (MHz):	1730 / 3560
RB / Offset:	1/108 & 1/50
Mode:	EN-DC
Anchor Band:	B48

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]
842.00	H	-	-	-85.91	29.41	50.50	-44.76	-13.00	-31.76
1830.00	H	-	-	-76.21	8.47	39.26	-56.00	-13.00	-43.00
3660.00	H	-	-	-75.60	12.22	43.62	-51.63	-13.00	-38.63
5290.00	H	-	-	-74.99	14.50	46.51	-48.75	-13.00	-35.75

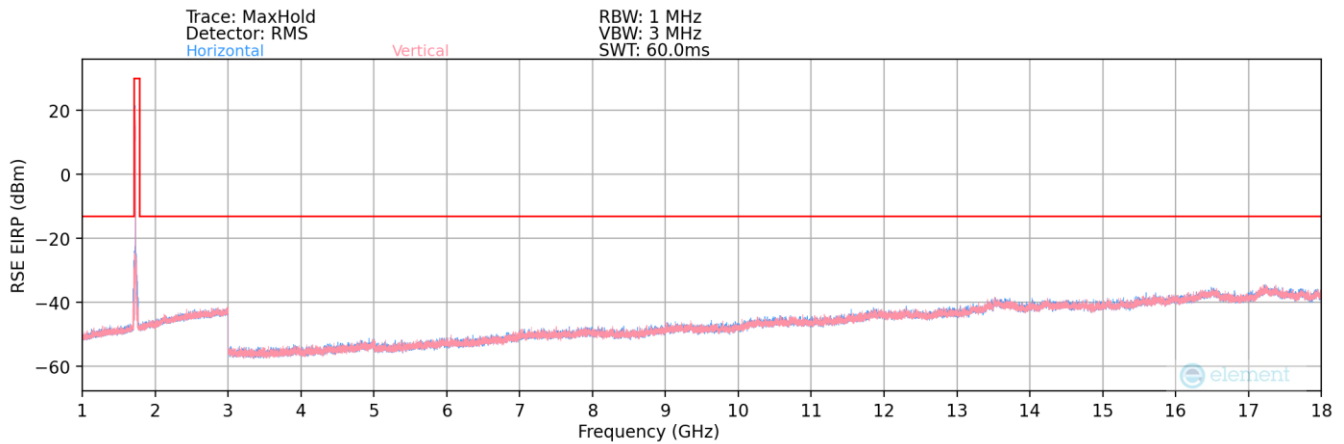
Table 7-64. Radiated Spurious Data (NR n66 [Ant A] – LTE B48 [Ant F])

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 297 of 322

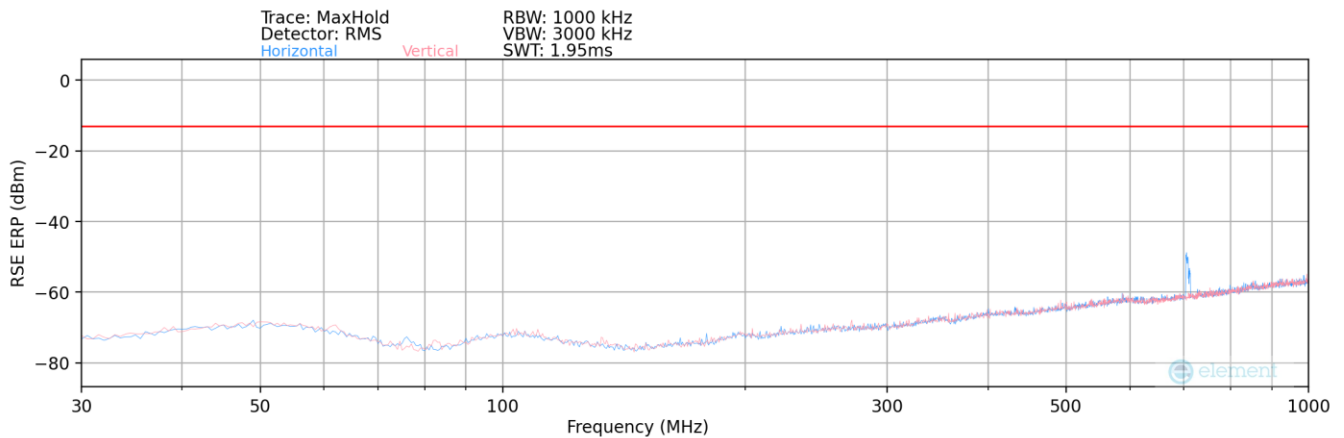
Uplink CA LTE Band 66/C – Ant A



Plot 7-494. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – Low Channel)

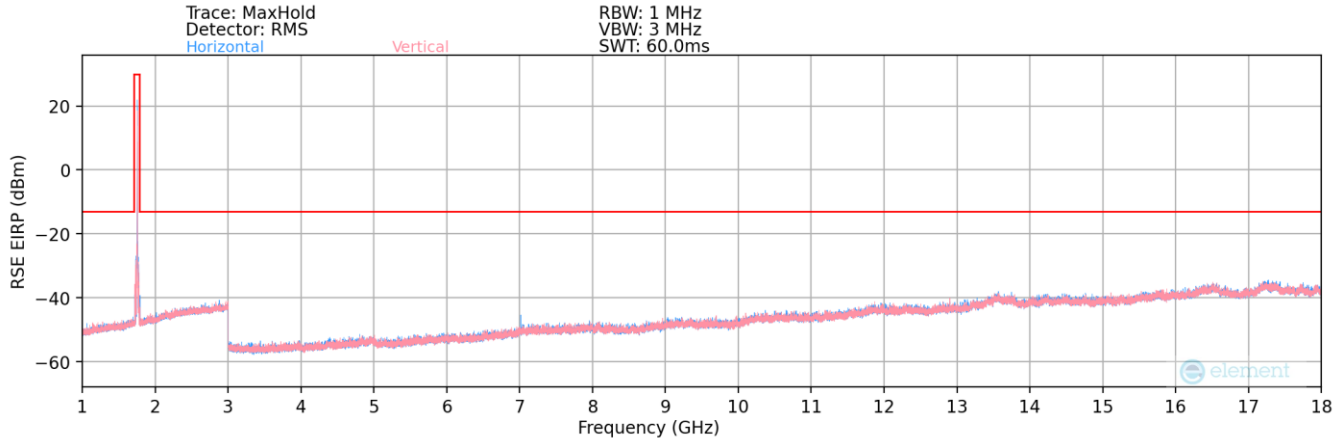


Plot 7-495. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – Low Channel)

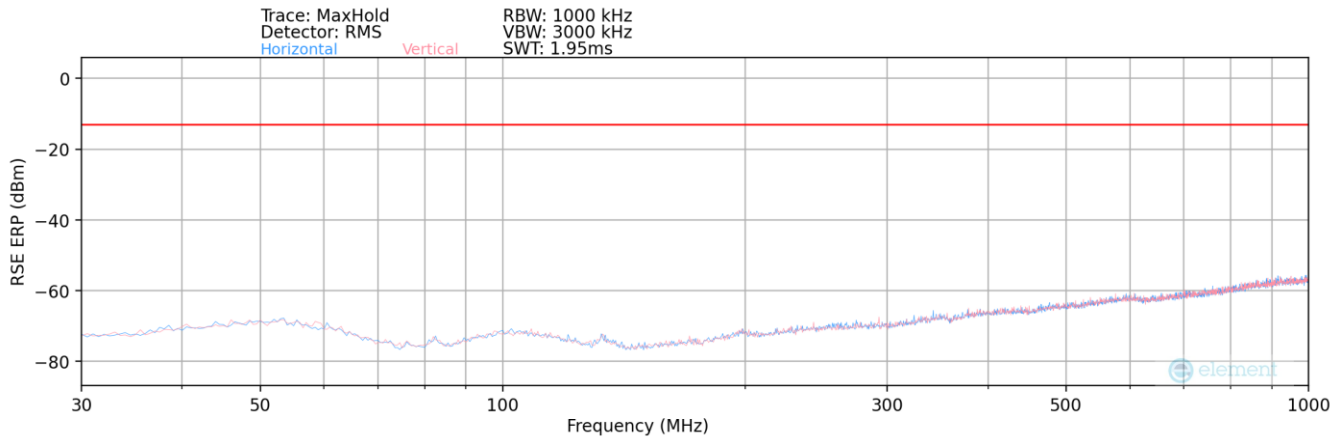


Plot 7-496. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – Mid Channel)

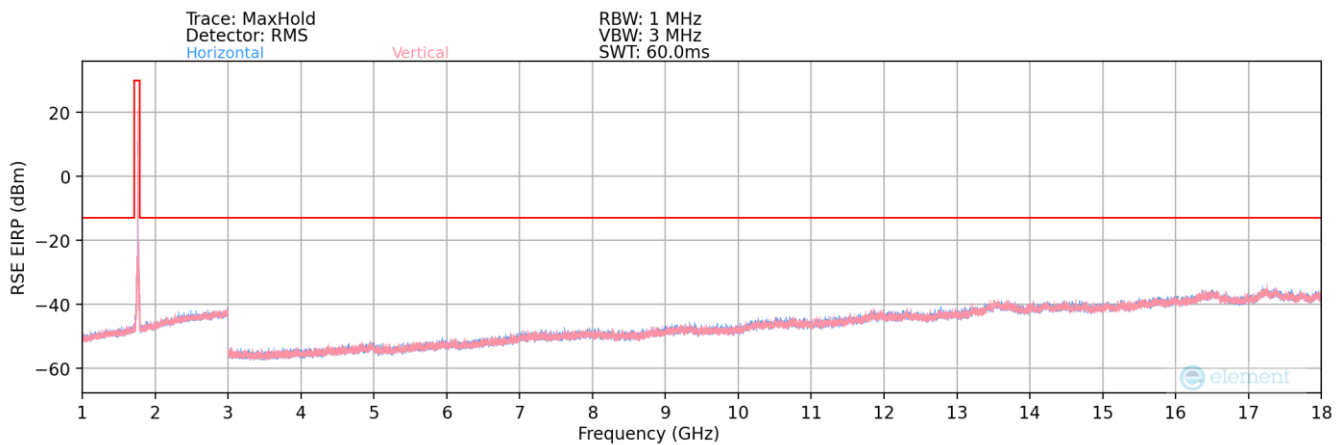
FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 298 of 322



Plot 7-497. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – Mid Channel)



Plot 7-498. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – High Channel)



Plot 7-499. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – High Channel)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 299 of 322

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
52.50	H	-	-	-71.66	-6.70	28.64	-68.77	-13.00	-55.77

7-65. Radiated Spurious Data (ULCA LTE66 – Ant A)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
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]
3440.00	H	143	28	-78.63	7.20	35.57	-59.68	-13.00	-46.68
5160.00	H	-	-	-81.51	10.20	35.69	-59.57	-13.00	-46.57
6880.00	H	125	53	-79.39	13.82	41.43	-53.82	-13.00	-40.82
8600.00	H	-	-	-83.62	16.70	40.08	-55.18	-13.00	-42.18
10320.00	H	-	-	-83.16	19.54	43.38	-51.88	-13.00	-38.88
12040.00	H	-	-	-83.89	22.06	45.17	-50.09	-13.00	-37.09

7-66. Radiated Spurious Data (ULCA LTE66 – Low Channel – Ant A)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
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]
3490.00	H	135	42	-77.71	7.03	36.32	-58.93	-13.00	-45.93
5235.00	H	-	-	-81.29	9.83	35.54	-59.72	-13.00	-46.72
6980.00	H	137	56	-78.42	13.96	42.54	-52.72	-13.00	-39.72
8725.00	H	-	-	-83.07	16.69	40.62	-54.63	-13.00	-41.63
10470.00	H	-	-	-83.30	19.49	43.19	-52.07	-13.00	-39.07
12215.00	H	-	-	-84.46	22.40	44.94	-50.32	-13.00	-37.32

Table 7-67. Radiated Spurious Data (ULCA LTE66 – Mid Channel – Ant A)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 300 of 322



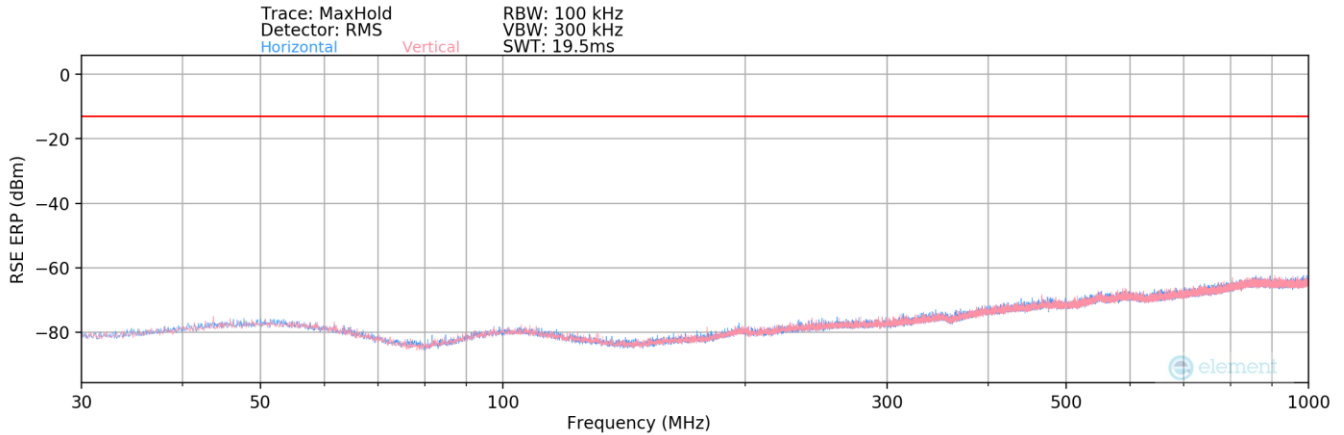
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

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]
3540.00	H	142	22	-77.87	7.40	36.53	-58.73	-13.00	-45.73
5310.00	H	-	-	-81.28	10.33	36.05	-59.21	-13.00	-46.21
7080.00	H	139	52	-79.13	14.29	42.16	-53.10	-13.00	-40.10
8850.00	H	-	-	-82.79	17.33	41.54	-53.72	-13.00	-40.72
10620.00	H	-	-	-83.21	19.86	43.65	-51.61	-13.00	-38.61
12390.00	H	-	-	-84.30	22.81	45.51	-49.75	-13.00	-36.75

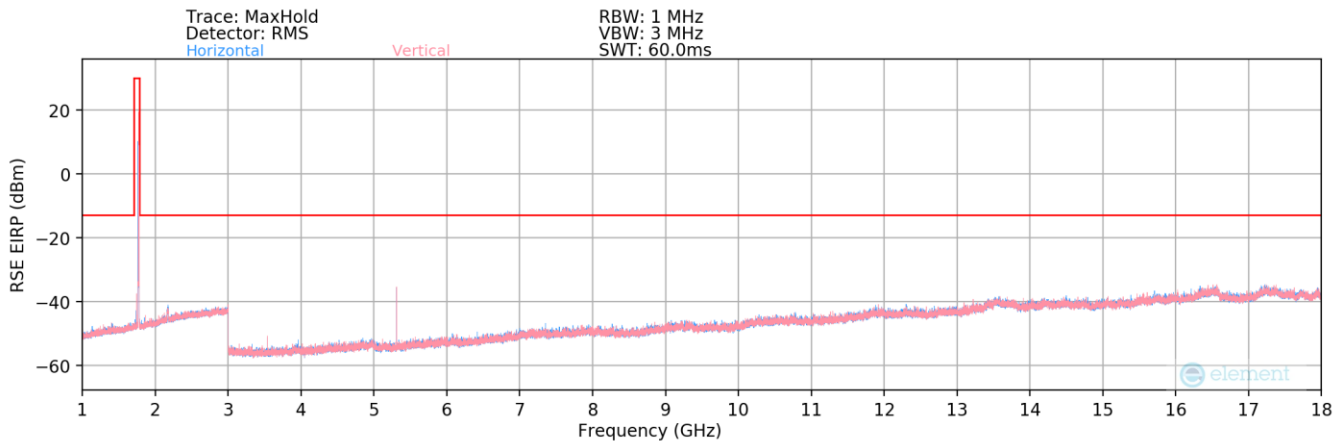
Table 7-68. Radiated Spurious Data (ULCA LTE66 – High Channel – Ant A)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 301 of 322

LTE Band 66/4 – Ant F



Plot 7-500. Radiated Spurious Plot (LTE Band 66/4 – Ant F)



Plot 7-501. Radiated Spurious Plot (LTE Band 66/4 – Ant F)

Mode:	Stand Alone
Channel:	132072
Frequency (MHz):	1720
Detector / Trace Mode:	RMS / Average
RBW / VBW:	100kHz / 300kHz

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]
81.10	H	-	-	-114.23	-21.56	-28.79	-126.20	-13.00	-113.20
198.30	H	-	-	-115.49	-16.36	-24.85	-122.26	-13.00	-109.26

Table 7-69. Radiated Spurious Data (LTE Band 66/4 –Ant F)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 302 of 322

Bandwidth (MHz):	20
Frequency (MHz):	1720
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]
3440.00	H	245	238	-76.43	7.11	37.68	-57.58	-13.00	-44.58
5160.00	H	239	242	-61.17	10.58	56.41	-38.85	-13.00	-25.85
6880.00	H	-	-	-82.62	13.75	38.13	-57.13	-13.00	-44.13
8600.00	H	-	-	-83.73	16.43	39.70	-55.56	-13.00	-42.56
10320.00	H	-	-	-83.76	19.31	42.55	-52.71	-13.00	-39.71

Table 7-70. Radiated Spurious Data (LTE Band 66/4 – Low Channel – Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	1745
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]
3490.00	H	178	306	-78.17	6.99	35.82	-59.43	-13.00	-46.43
5235.00	H	189	304	-62.11	10.11	55.00	-40.26	-13.00	-27.26
6980.00	H	-	-	-82.45	13.84	38.39	-56.86	-13.00	-43.86
8725.00	H	-	-	-83.50	16.26	39.76	-55.49	-13.00	-42.49
10470.00	H	-	-	-83.74	19.22	42.48	-52.78	-13.00	-39.78

Table 7-71. Radiated Spurious Data (LTE Band 66/4 – Mid Channel – Ant F)

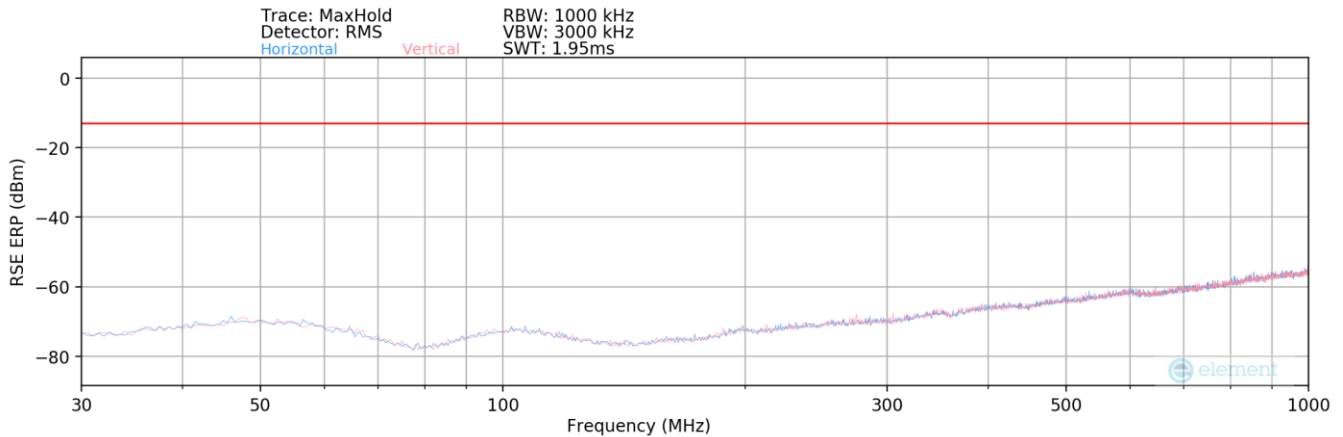
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

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]
3540.00	H	281	313	-78.91	7.22	35.31	-59.95	-13.00	-46.95
5310.00	H	280	298	-63.07	10.58	54.51	-40.75	-13.00	-27.75
7080.00	H	-	-	-82.70	14.17	38.47	-56.78	-13.00	-43.78
8850.00	H	-	-	-83.34	16.80	40.46	-54.80	-13.00	-41.80
10620.00	H	-	-	-83.91	19.70	42.79	-52.47	-13.00	-39.47

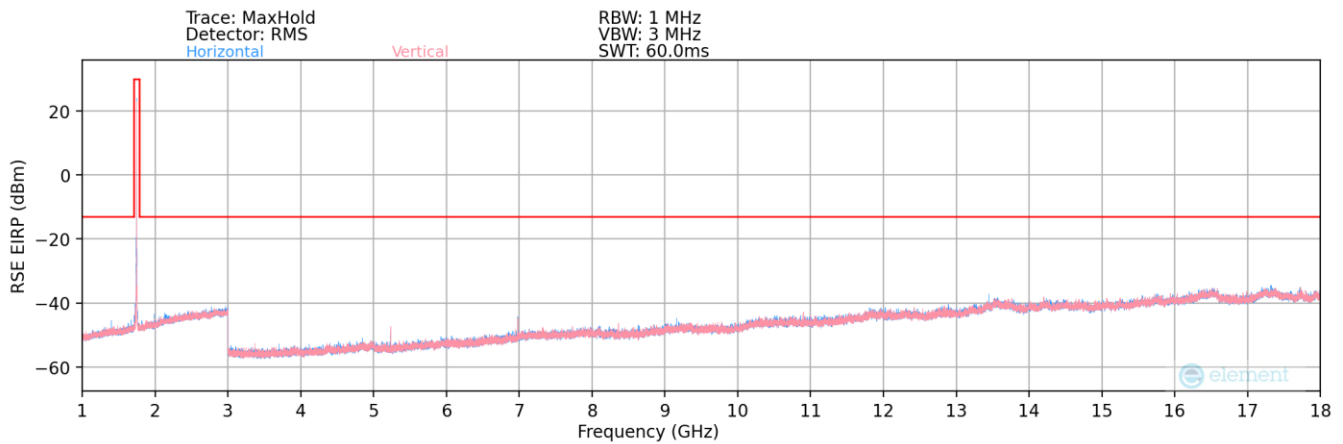
Table 7-72. Radiated Spurious Data (LTE Band 66/4 – High Channel – Ant F)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 303 of 322

NR Band n66 – Ant F



Plot 7-502. Radiated Spurious Plot (NR Band n66 – Ant F)



Plot 7-503. Radiated Spurious Plot (NR Band n66 – Ant F)

Mode:	Stand Alone
Channel:	349000
Frequency (MHz):	1745
Detector / Trace Mode:	RMS / Average
RBW / VBW:	100kHz / 300kHz

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]
504.00	H	-	-	-69.32	-10.00	27.68	-69.72	-13.00	-56.72

Table 7-73. Radiated Spurious Data (NR Band n66 – Ant F)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 304 of 322

Bandwidth (MHz):	40
Frequency (MHz):	1730
RB / Offset:	1 / 108
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
3460.00	H	197	36	-79.73	6.96	34.23	-61.03	-13.00	-48.03
5190.00	H	204	157	-78.66	10.37	38.71	-56.55	-13.00	-43.55
6920.00	H	280	57	-80.01	13.65	40.64	-54.62	-13.00	-41.62
8650.00	H	-	-	-85.36	17.02	38.66	-56.60	-13.00	-43.60
10380.00	H	-	-	-84.77	19.87	42.10	-53.16	-13.00	-40.16
12110.00	H	-	-	-87.72	22.17	41.45	-53.81	-13.00	-40.81

Table 7-74. Radiated Spurious Data (NR Band n66 – Low Channel – Ant F)

Bandwidth (MHz):	40
Frequency (MHz):	1745
RB / Offset:	1 / 108
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
3490.00	H	248	11	-80.08	6.99	33.91	-61.34	-13.00	-48.34
5235.00	H	120	310	-76.70	10.11	40.41	-54.85	-13.00	-41.85
6980.00	H	251	49	-80.30	13.84	40.54	-54.71	-13.00	-41.71
8725.00	H	-	-	-84.69	16.26	38.57	-56.68	-13.00	-43.68
10470.00	H	-	-	-84.98	19.22	41.24	-54.02	-13.00	-41.02
12215.00	H	-	-	-86.21	22.17	42.96	-52.30	-13.00	-39.30

Table 7-75. Radiated Spurious Data (NR Band n66 – Mid Channel – Ant F)

Bandwidth (MHz):	40
Frequency (MHz):	1760
RB / Offset:	1 / 108
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

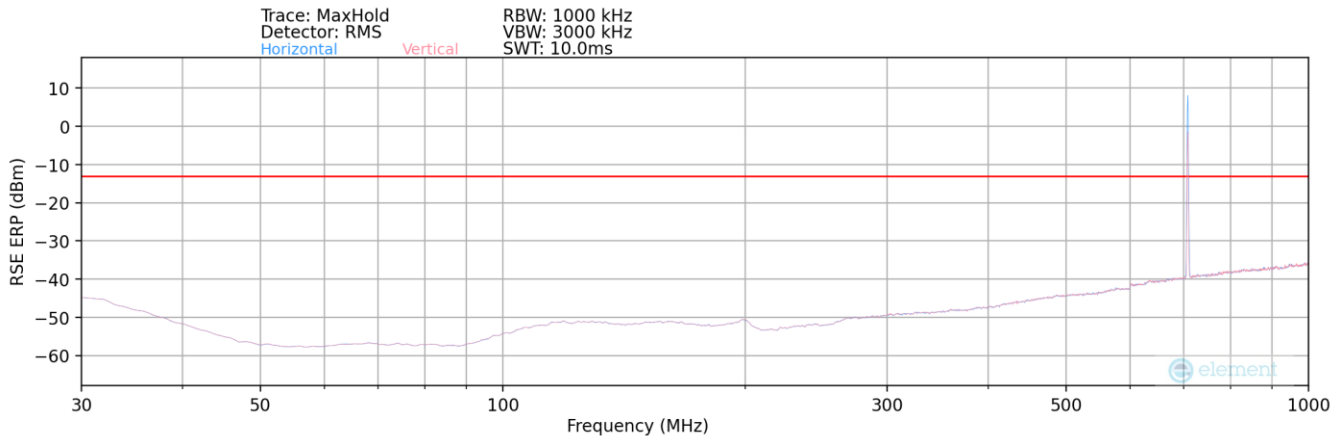
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.00	H	155	24	-79.54	7.14	34.60	-60.66	-13.00	-47.66
5280.00	H	173	319	-76.08	10.28	41.20	-54.06	-13.00	-41.06
7040.00	H	234	320	-80.30	14.90	41.60	-53.65	-13.00	-40.65
8800.00	H	-	-	-84.74	16.76	39.02	-56.24	-13.00	-43.24
10560.00	H	-	-	-85.13	19.59	41.46	-53.80	-13.00	-40.80
12320.00	H	-	-	-86.21	22.67	43.46	-51.79	-13.00	-38.79

Table 7-76. Radiated Spurious Data (NR Band n66 – High Channel – Ant F)

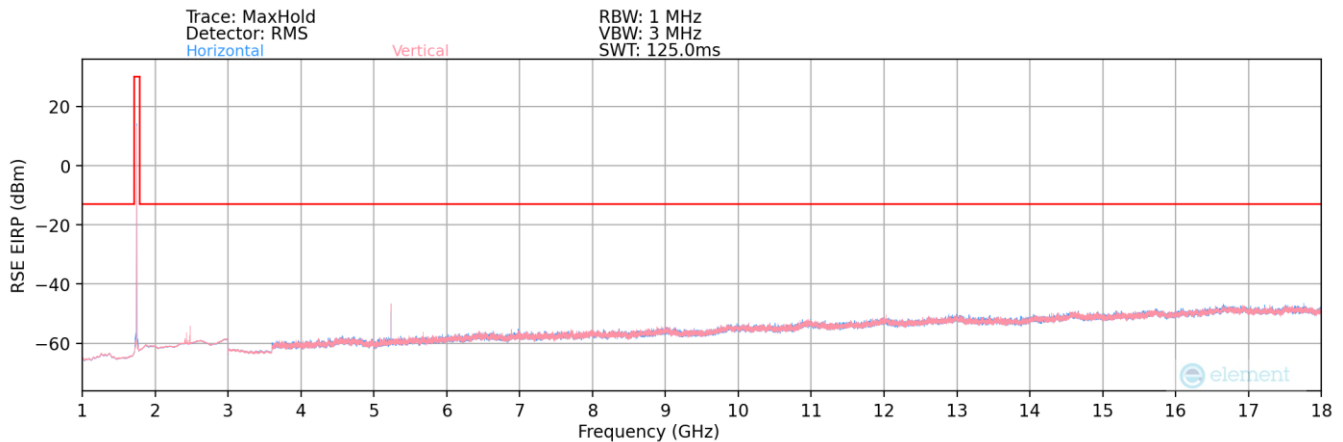
FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 305 of 322



EN-DC NR Band n66 [Ant F] – LTE Band B12 [Ant A]



Plot 7-504. Radiated Spurious Plot (NR n66 [Ant F] – LTE B12 [Ant A])



Plot 7-505. Radiated Spurious Plot (NR n66 [Ant F] – LTE B12 [Ant A])

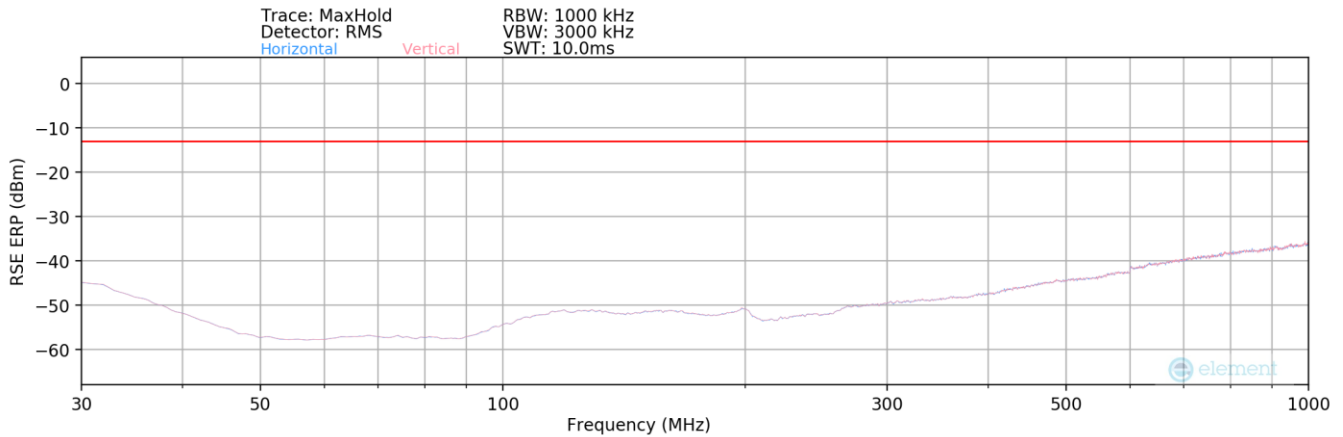
Bandwidth (MHz):	40 & 10
Frequency (MHz):	1745 & 707.5
RB / Offset:	1 / 108 & 1 / 25
Mode:	EN-DC
Anchor Band:	12

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]
330.00	H	-	-	-108.75	21.82	20.07	-75.19	-13.00	-62.19
2421.00	V	120	209	-60.16	0.61	47.45	-47.80	-13.00	-34.80
5235.00	V	369	220	-70.31	5.03	41.72	-53.54	-13.00	-40.54
5660.00	V	-	-	-78.96	5.44	33.48	-61.78	-13.00	-48.78
6320.00	V	-	-	-79.05	6.49	34.44	-60.82	-13.00	-47.82
7075.00	V	-	-	-79.26	7.09	34.83	-60.43	-13.00	-47.43

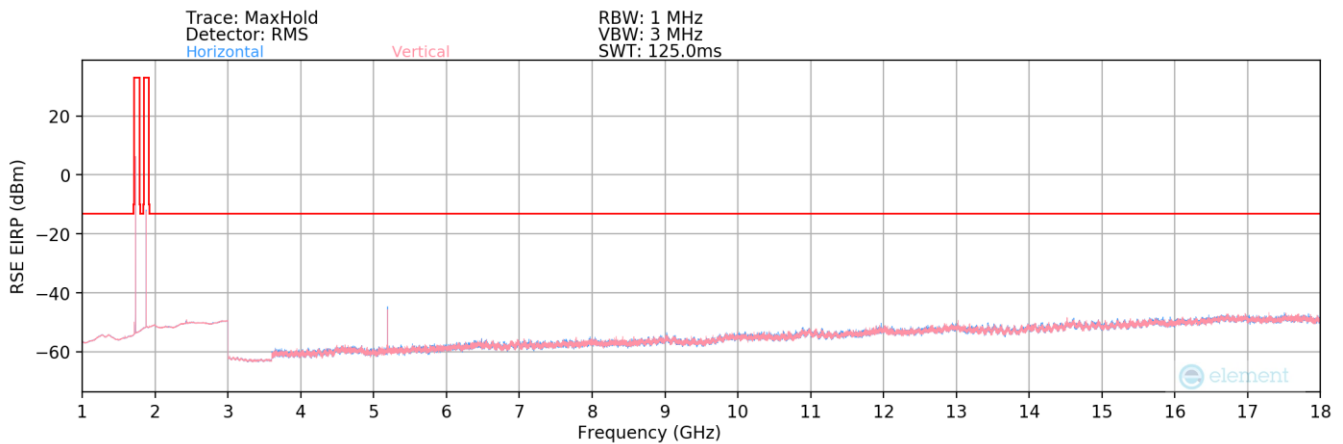
Table 7-77. Radiated Spurious Data (NR n66 [Ant F] – LTE B12 [Ant A])

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 306 of 322

EN-DC NR Band n66 [Ant F] – LTE Band B2 [Ant A]



Plot 7-506. Radiated Spurious Plot (NR n66 [Ant F] – LTE B2 [Ant A])



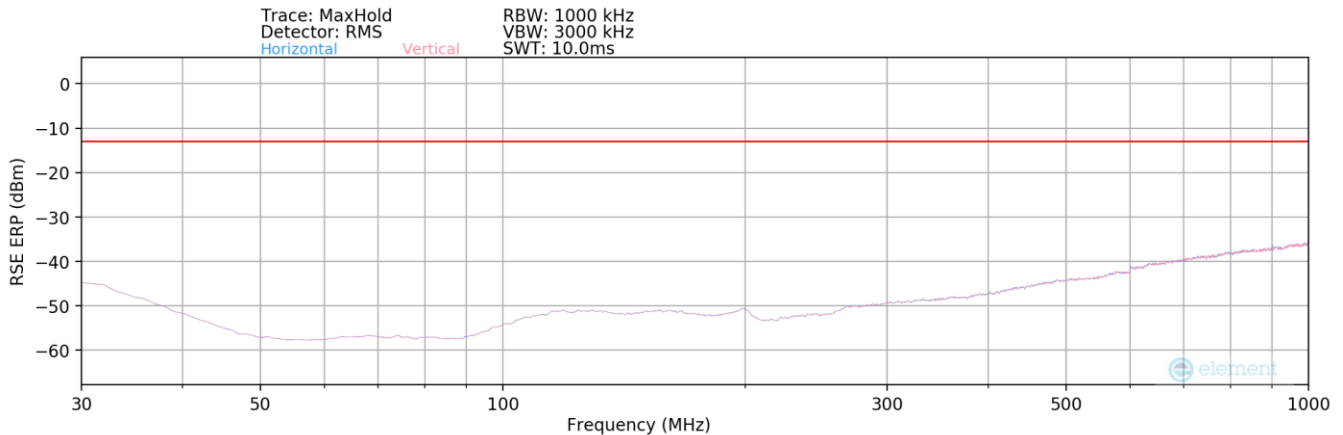
Plot 7-507. Radiated Spurious Plot (NR n66 [Ant F] – LTE B2 [Ant A])

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]
530.00	H	-	-	-86.40	26.40	47.00	-48.26	-13.00	-35.26
1475.00	H	-	-	-71.12	4.85	40.73	-54.53	-13.00	-41.53
1610.00	H	-	-	-72.95	5.51	39.56	-55.70	-13.00	-42.70
2015.00	H	-	-	-73.21	9.54	43.33	-51.93	-13.00	-38.93
5235.00	H	125	170	-65.11	14.42	56.31	-38.95	-13.00	-25.95
6980.00	H	-	-	-76.55	16.81	47.26	-48.00	-13.00	-35.00
8725.00	H	-	-	-78.02	17.97	46.95	-48.30	-13.00	-35.30

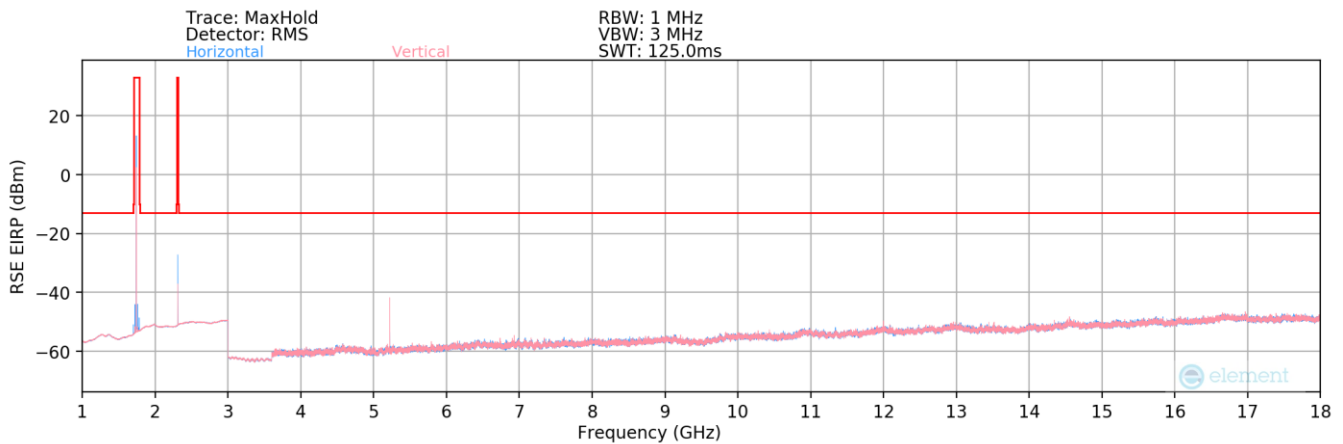
Table 7-78. Radiated Spurious Data (NR n66 [Ant F] – LTE B2 [Ant A])

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 307 of 322

EN-DC NR Band n66 [Ant F] – LTE Band B30 [Ant A]



Plot 7-508. Radiated Spurious Plot (NR n66 [Ant F] – LTE B30 [Ant A])



Plot 7-509. Radiated Spurious Plot (NR n66 [Ant F] – LTE B30 [Ant A])

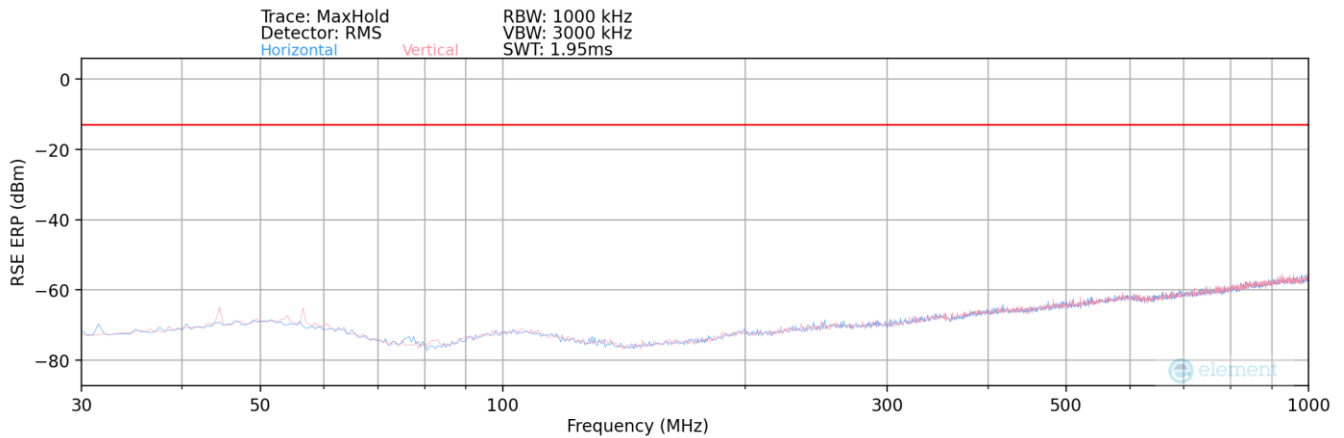
Bandwidth (MHz):	40 / 10
Frequency (MHz):	1745 / 2310
RB / Offset:	1 / 108 & 1 / 25
Mode:	EN-DC
Anchor Band:	B30

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]
515.00	H	-	-	-83.26	26.13	49.87	-45.39	-13.00	-32.39
5220.00	H	369	112	-60.57	14.48	60.91	-34.35	-13.00	-21.35
6960.00	H	208	339	-73.90	16.72	49.82	-45.44	-13.00	-32.44
8700.00	H	-	-	-77.65	18.02	47.37	-47.89	-13.00	-34.89
2865.00	H	-	-	-70.52	10.86	47.34	-47.92	-13.00	-34.92
3420.00	H	-	-	-71.52	11.32	46.80	-48.46	-13.00	-35.46
3975.00	H	-	-	-75.62	12.43	43.81	-51.45	-13.00	-38.45

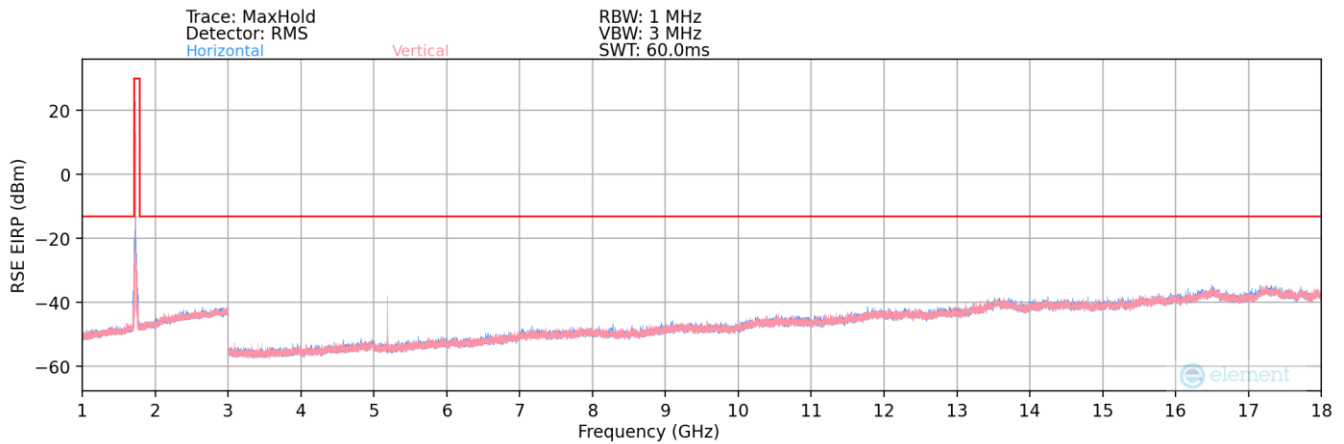
Table 7-79. Radiated Spurious Data (NR n66 [Ant F] – LTE B30 [Ant A])

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 308 of 322

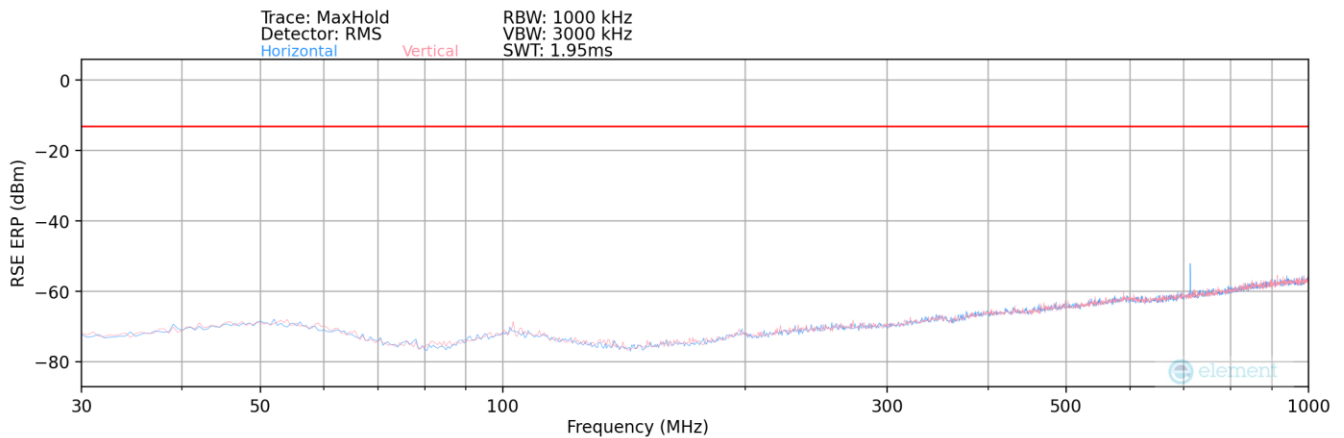
Uplink CA LTE Band 66B/C – Ant F



Plot 7-510. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – Low Channel)

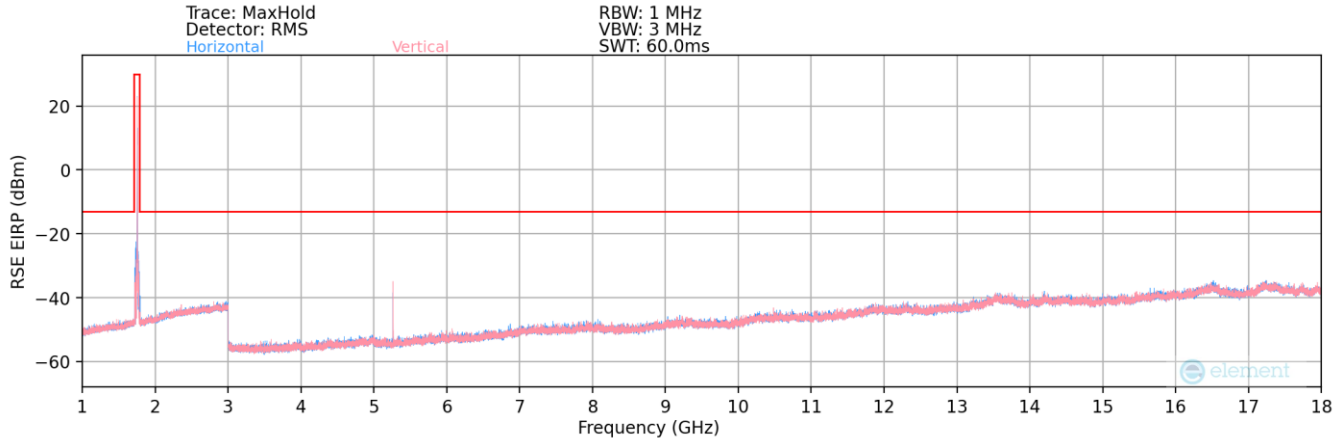


Plot 7-511. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – Low Channel)

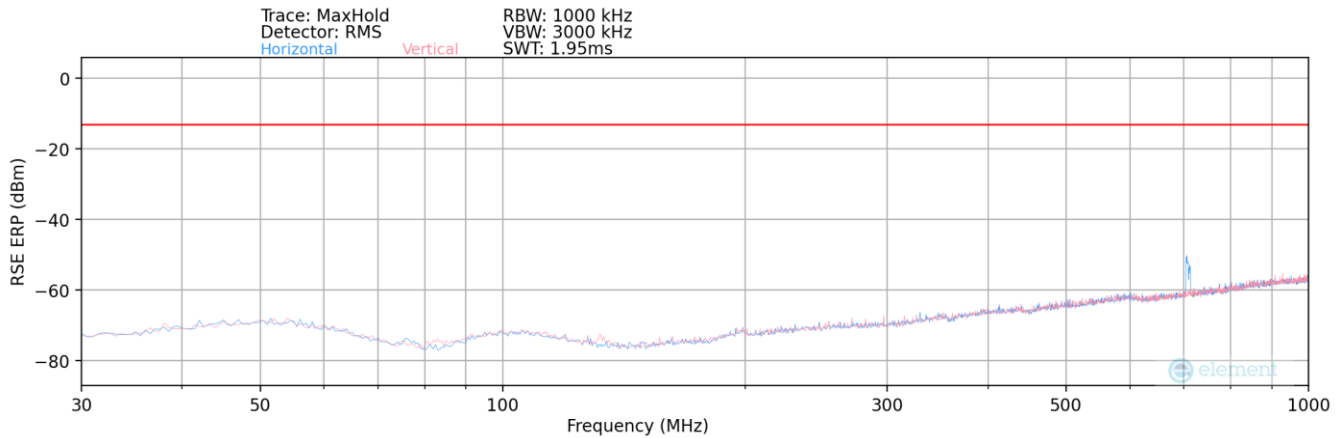


Plot 7-512. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – Mid Channel)

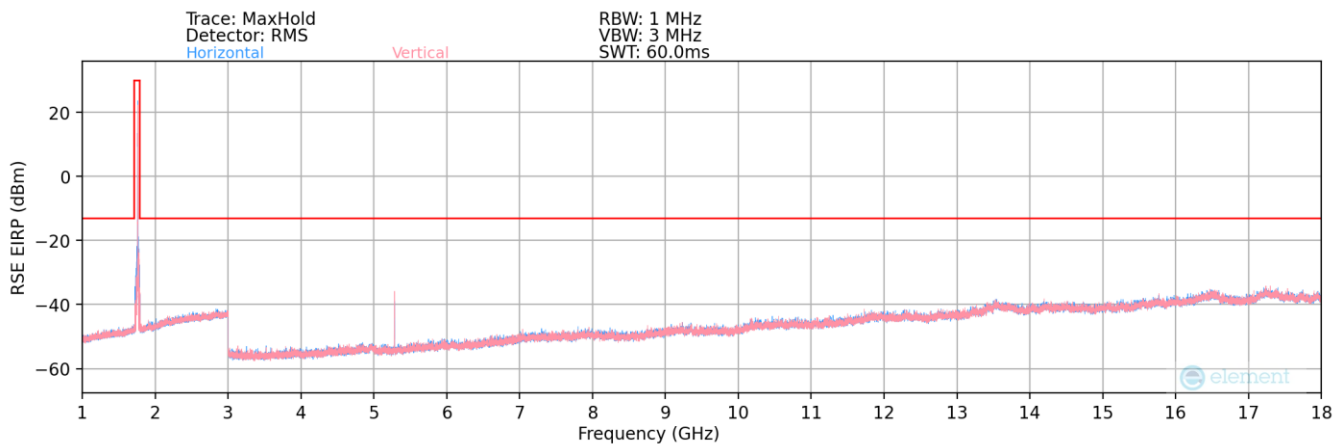
FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 309 of 322



Plot 7-513. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – Mid Channel)



Plot 7-514. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – High Channel)



Plot 7-515. Radiated Spurious Plot (ULCA LTE Band 66 – Ant A – High Channel)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 310 of 322

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
712.90	H	-	-	-80.53	-6.54	19.93	-77.48	-13.00	-64.48

7-80. Radiated Spurious Data (ULCA LTE66 – Ant F)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
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]
3440.00	H	196	219	-75.83	7.20	38.37	-56.88	-13.00	-43.88
5160.00	H	142	328	-70.19	10.20	47.01	-48.25	-13.00	-35.25
6880.00	H	-	-	-81.96	13.82	38.86	-56.39	-13.00	-43.39
8600.00	H	-	-	-83.64	16.70	40.06	-55.20	-13.00	-42.20
10320.00	H	-	-	-83.36	19.54	43.18	-52.08	-13.00	-39.08

7-81. Radiated Spurious Data (ULCA LTE66 – Low Channel – Ant F)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
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]
3490.00	H	185	225	-74.76	7.03	39.27	-55.98	-13.00	-42.98
5235.00	H	144	161	-66.08	9.83	50.75	-44.51	-13.00	-31.51
6980.00	H	-	-	-82.15	13.96	38.81	-56.45	-13.00	-43.45
8725.00	H	-	-	-83.07	16.69	40.62	-54.63	-13.00	-41.63
10470.00	H	-	-	-83.48	19.49	43.01	-52.25	-13.00	-39.25

Table 7-82. Radiated Spurious Data (ULCA LTE66 – Mid Channel – Ant F)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 311 of 322



PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
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]
3540.00	H	106	232	-76.35	7.40	38.05	-57.21	-13.00	-44.21
5310.00	H	290	166	-66.90	10.33	50.43	-44.83	-13.00	-31.83
7080.00	H	-	-	-82.26	14.29	39.03	-56.23	-13.00	-43.23
8850.00	H	-	-	-82.75	17.33	41.58	-53.68	-13.00	-40.68
10620.00	H	-	-	-83.15	19.86	43.71	-51.55	-13.00	-38.55

Table 7-83. Radiated Spurious Data (ULCA LTE66 – High Channel – Ant F)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 312 of 322



7.9 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

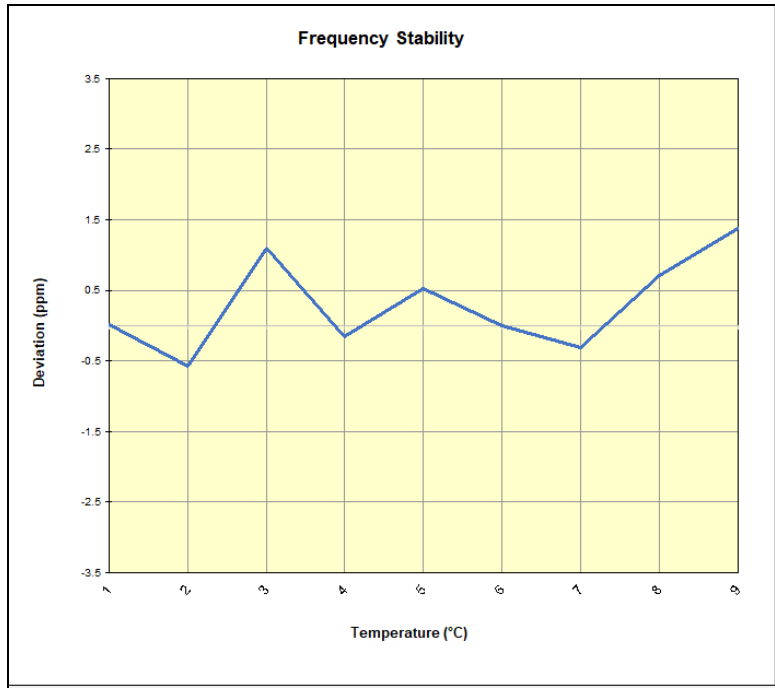
None

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 313 of 322

LTE Band 66/4

LTE Band 66/4					
Operating Frequency (Hz):		1,745,000,000			
Ref. Voltage (VDC):		4.34			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.34	- 30	1,745,087,114	21	0.0000012
		- 20	1,745,086,101	-992	-0.0000569
		- 10	1,745,089,014	1,921	0.0001101
		0	1,745,086,829	-265	-0.0000152
		+ 10	1,745,088,025	932	0.0000534
		+ 20 (Ref)	1,745,087,093	0	0.0000000
		+ 30	1,745,086,557	-536	-0.0000307
		+ 40	1,745,088,346	1,252	0.0000718
		+ 50	1,745,089,505	2,412	0.0001382
Battery Endpoint	3.71	+ 20	1,745,087,174	81	0.0000046

Table 7-84. LTE Band 66/4 Frequency Stability Data



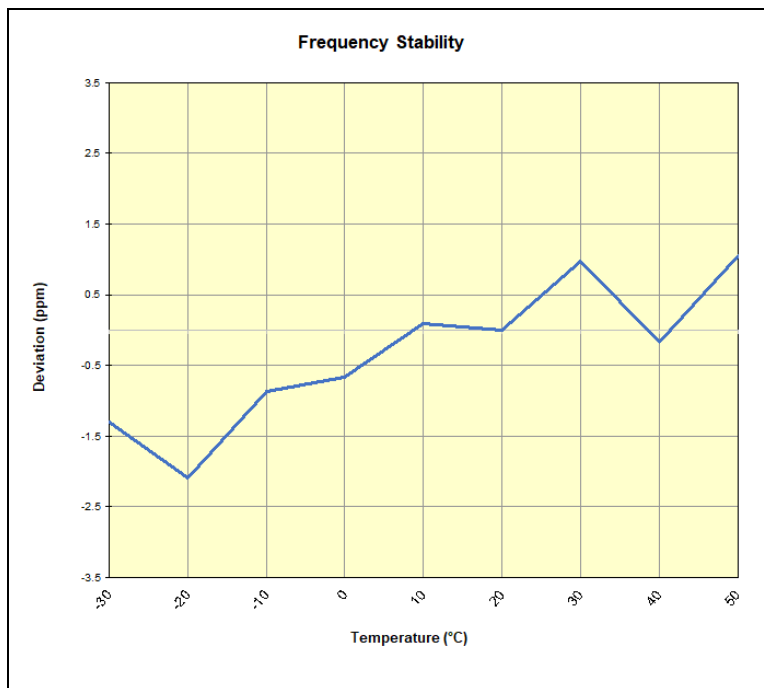
Plot 7-516. LTE Band 66/4 Frequency Stability Chart

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 314 of 322

LTE Band 12

LTE Band 12					
Operating Frequency (Hz):		707,500,000			
Ref. Voltage (VDC):		4.34			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.34	- 30	707,598,322	-925	-0.0001308
		- 20	707,597,771	-1,476	-0.0002086
		- 10	707,598,629	-618	-0.0000874
		0	707,598,780	-467	-0.0000660
		+ 10	707,599,316	69	0.0000098
		+ 20 (Ref)	707,599,247	0	0.0000000
		+ 30	707,599,933	686	0.0000970
		+ 40	707,599,129	-118	-0.0000166
		+ 50	707,599,994	747	0.0001056
Battery Endpoint	3.71	+ 20	707,600,249	1,002	0.0001416

Table 7-85. LTE Band 12 Frequency Stability Data



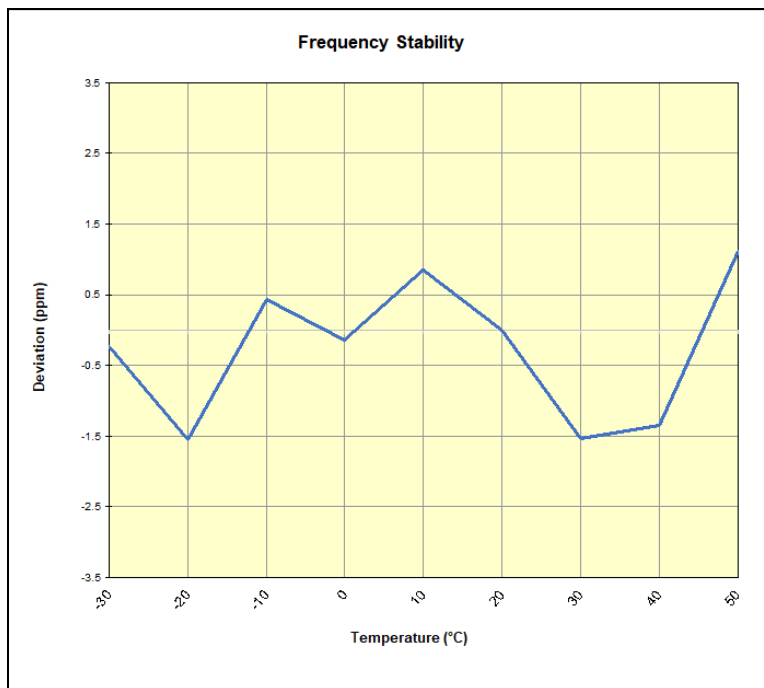
Plot 7-517. LTE Band 12 Frequency Stability Chart

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 315 of 322

LTE Band 13

LTE Band 13					
Operating Frequency (Hz):		782,000,000			
Ref. Voltage (VDC):		4.34			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.34	- 30	782,092,338	-185	-0.0000237
		- 20	782,091,313	-1,211	-0.0001548
		- 10	782,092,868	345	0.0000441
		0	782,092,414	-109	-0.0000140
		+ 10	782,093,190	666	0.0000852
		+ 20 (Ref)	782,092,523	0	0.0000000
		+ 30	782,091,329	-1,194	-0.0001527
		+ 40	782,091,469	-1,054	-0.0001348
Battery Endpoint	3.71	+ 20	782,092,477	-46	-0.0000059

Table 7-86. LTE Band 13 Frequency Stability Data



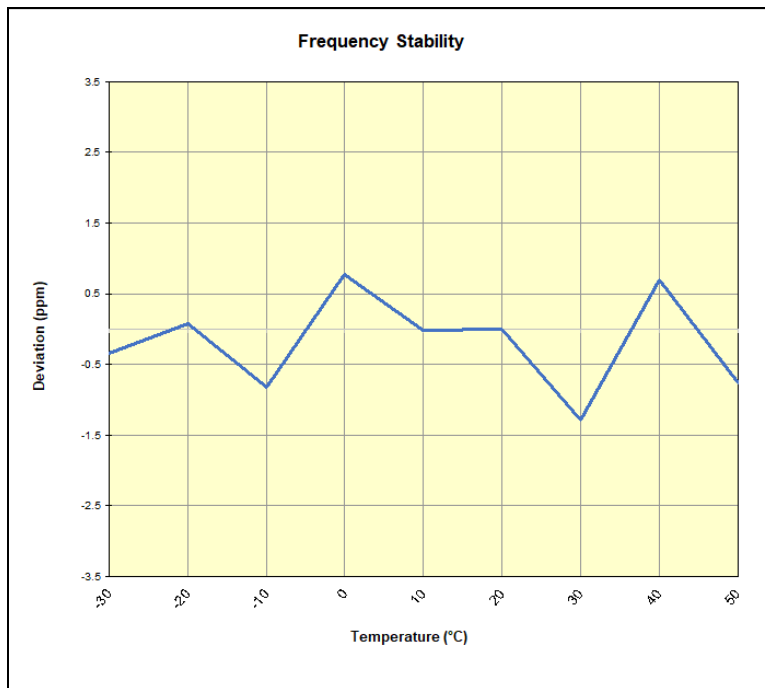
Plot 7-518. LTE Band 13 Frequency Stability Chart

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 316 of 322

LTE Band 71

LTE Band 71					
Operating Frequency (Hz):		680,500,000			
Ref. Voltage (VDC):		4.34			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.34	- 30	680,592,381	-230	-0.0000338
		- 20	680,592,662	52	0.0000076
		- 10	680,592,050	-561	-0.0000824
		0	680,593,134	524	0.0000769
		+ 10	680,592,603	-7	-0.0000011
		+ 20 (Ref)	680,592,611	0	0.0000000
		+ 30	680,591,733	-877	-0.0001289
		+ 40	680,593,083	472	0.0000694
Battery Endpoint	3.71	+ 20	680,592,302	-308	-0.0000453

Table 7-87. LTE Band 71 Frequency Stability Data



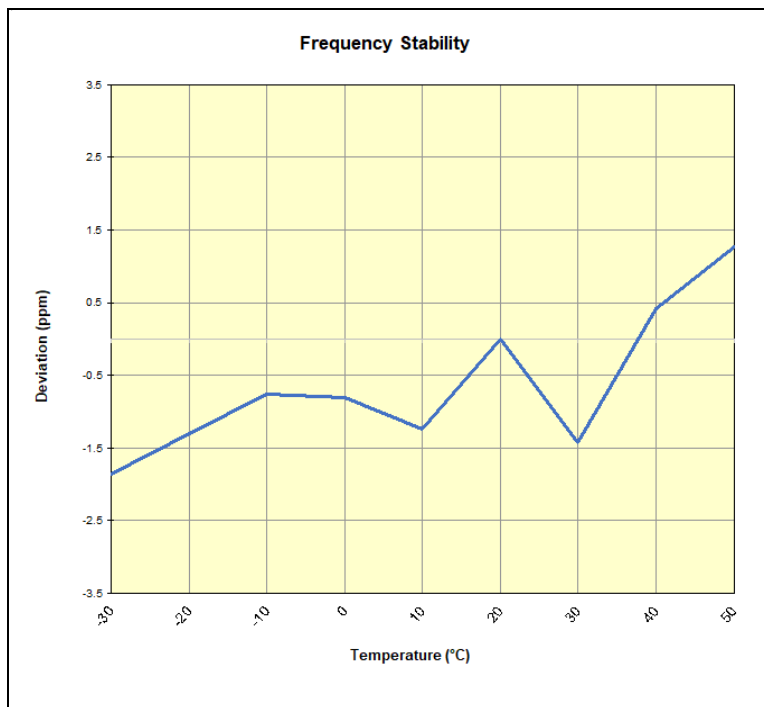
Plot 7-519. LTE Band 71 Frequency Stability Chart

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 317 of 322

NR Band n66

NR Band n66					
Operating Frequency (Hz):		1,745,000,000			
Ref. Voltage (VDC):		4.34			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.34	- 30	1,744,230,919	-3,231	-0.0001853
		- 20	1,744,231,891	-2,259	-0.0001295
		- 10	1,744,232,834	-1,317	-0.0000755
		0	1,744,232,753	-1,398	-0.0000801
		+ 10	1,744,231,995	-2,155	-0.0001236
		+ 20 (Ref)	1,744,234,151	0	0.0000000
		+ 30	1,744,231,659	-2,492	-0.0001429
		+ 40	1,744,234,887	737	0.0000422
Battery Endpoint	3.71	+ 20	1,744,231,819	-2,331	-0.0001337

Table 7-88. NR Band n66 Frequency Stability Data



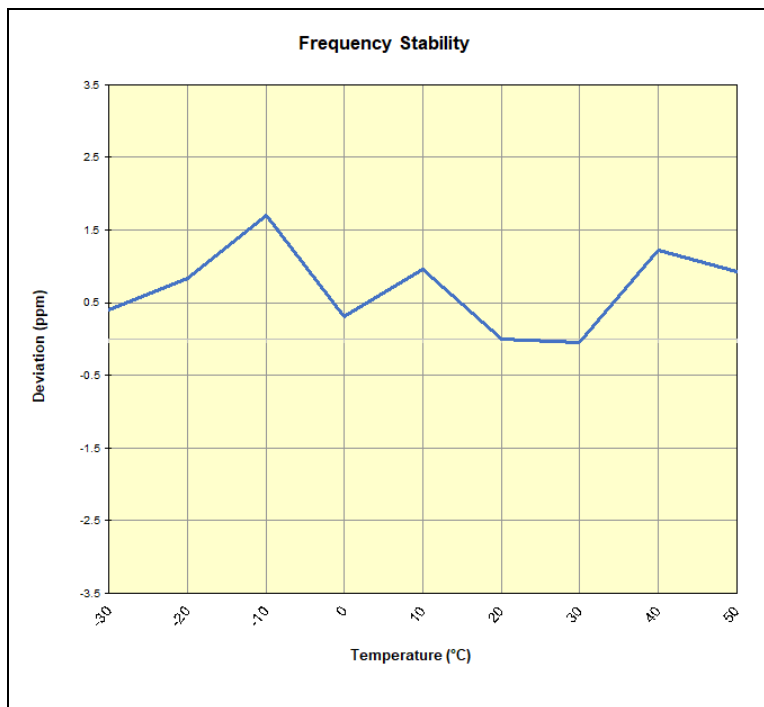
Plot 7-520. NR Band n66 Frequency Stability Chart

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 318 of 322

NR Band n71

NR Band n71					
Operating Frequency (Hz):		680,500,000			
Ref. Voltage (VDC):		4.34			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.34	- 30	680,491,827	277	0.0000407
		- 20	680,492,122	572	0.0000841
		- 10	680,492,713	1,163	0.0001708
		0	680,491,762	212	0.0000311
		+ 10	680,492,207	657	0.0000965
		+ 20 (Ref)	680,491,550	0	0.0000000
		+ 30	680,491,524	-26	-0.0000039
		+ 40	680,492,378	828	0.0001217
		+ 50	680,492,187	637	0.0000935
Battery Endpoint	3.71	+ 20	680,491,591	41	0.0000060

Table 7-89. NR Band n71 Frequency Stability Data



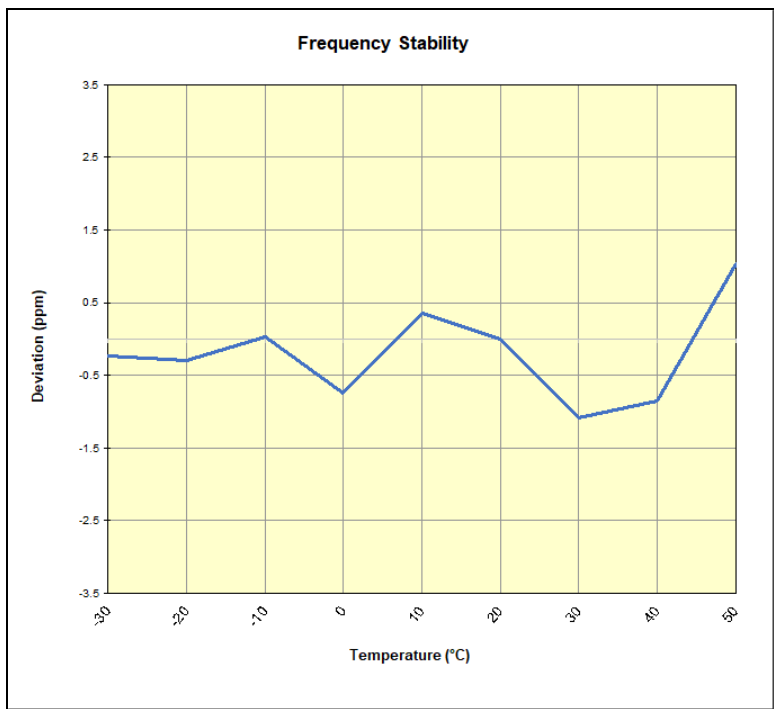
Plot 7-521. NR Band n71 Frequency Stability Chart

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 319 of 322

NR Band n12

NR Band n12					
Operating Frequency (Hz):		707,500,000			
Ref. Voltage (VDC):		4.34			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.34	- 30	707,497,694	-167	-0.0000236
		- 20	707,497,652	-209	-0.0000295
		- 10	707,497,887	26	0.0000037
		0	707,497,337	-523	-0.0000740
		+ 10	707,498,112	251	0.0000355
		+ 20 (Ref)	707,497,861	0	0.0000000
		+ 30	707,497,094	-766	-0.0001083
		+ 40	707,497,258	-603	-0.0000852
Battery Endpoint	3.71	+ 20	707,498,676	816	0.0001153

Table 7-90. NR Band n12 Frequency Stability Data



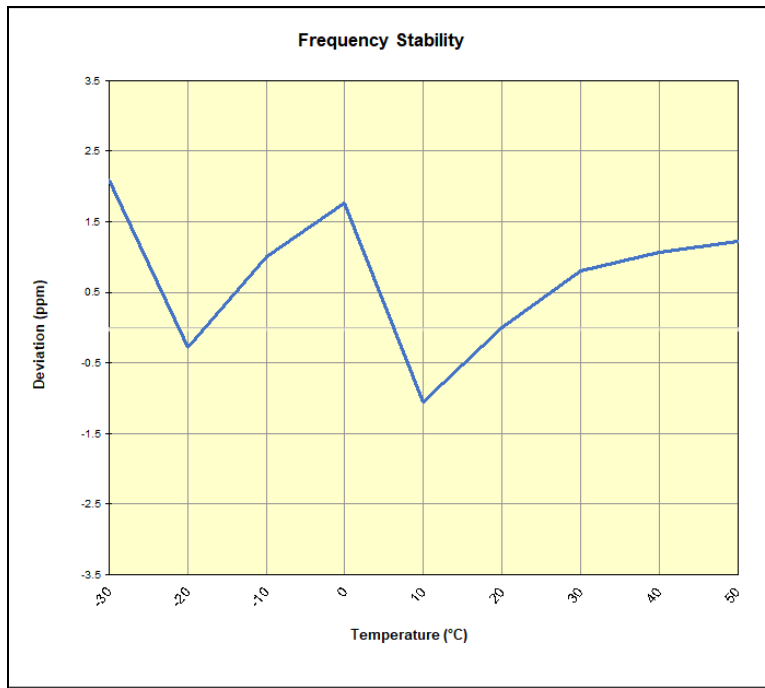
Plot 7-522. NR Band n12 Frequency Stability Chart

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 320 of 322

WCDMA AWS

WCDMA AWS					
		Operating Frequency (Hz):		1,732,600,000	
		Ref. Voltage (VDC):		4.34	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.34	- 30	1,732,645,350	3,631	0.0002096
		- 20	1,732,641,229	-490	-0.0000283
		- 10	1,732,643,463	1,744	0.0001006
		0	1,732,644,776	3,057	0.0001764
		+ 10	1,732,639,901	-1,818	-0.0001049
		+ 20 (Ref)	1,732,641,719	0	0.0000000
		+ 30	1,732,643,114	1,395	0.0000805
		+ 40	1,732,643,577	1,858	0.0001072
		+ 50	1,732,643,825	2,106	0.0001215
Battery Endpoint	3.71	+ 20	1,732,639,672	-2,047	-0.0001181

Table 7-91. WCDMA AWS Frequency Stability Data



Plot 7-523. WCDMA AWS Frequency Stability Chart

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 321 of 322

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS911U** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010096-03.A3L	Test Dates: 9/05/2022 - 11/22/2022	EUT Type: Portable Handset	Page 322 of 322