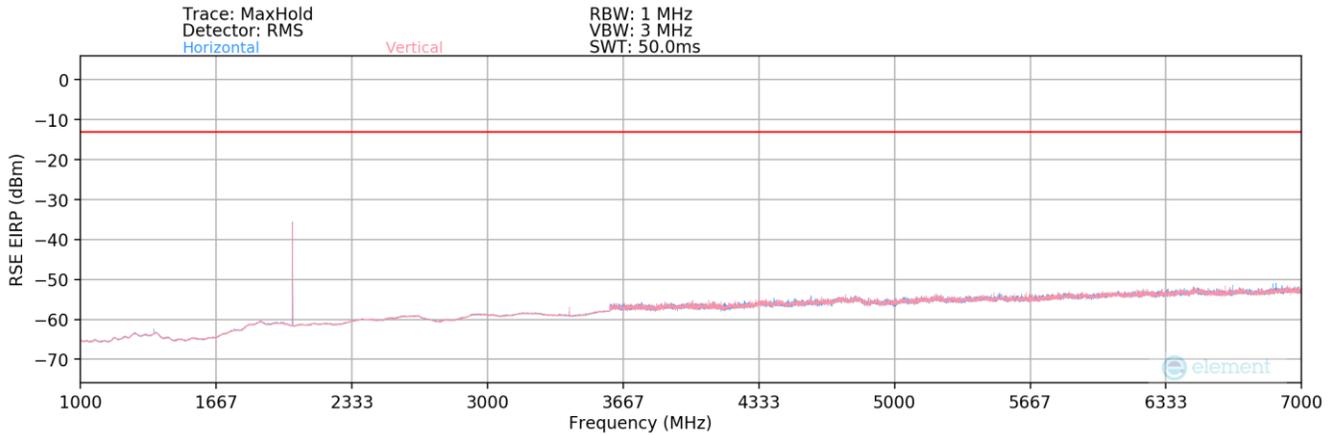
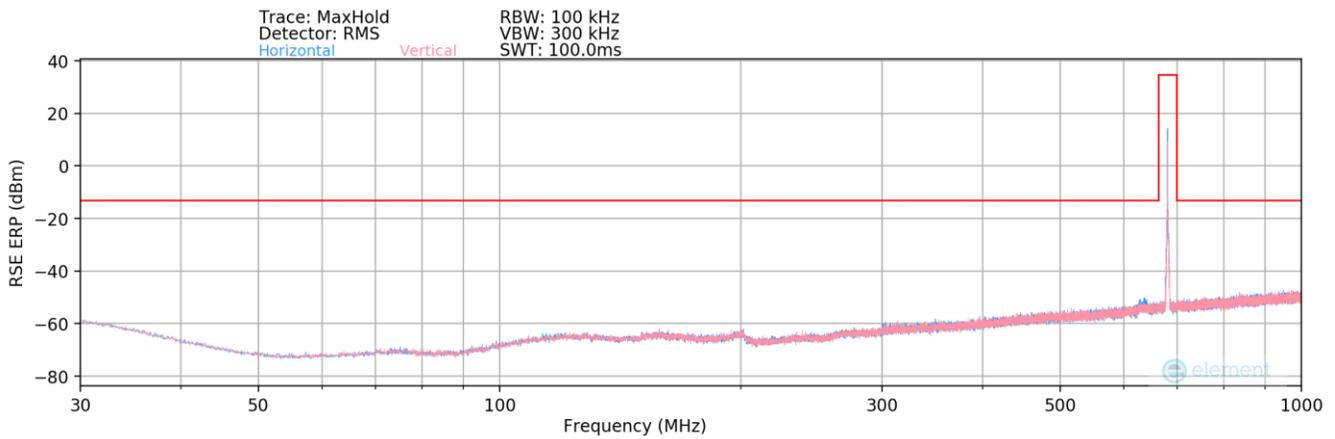


LTE Band 71 – Ant A



Plot 7-472. Radiated Spurious Plot (LTE Band 71 – Ant A – Closed)



Plot 7-473. Radiated Spurious Plot (LTE Band 71 – Ant A – Closed – Below 1GHz)

Bandwidth (MHz):	20
Frequency (MHz):	673
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]
1346.0	H	-	-	-77.33	-2.80	26.87	-68.38	-13.00	-55.38
2019.0	H	168	226	-45.79	-0.39	60.82	-34.43	-13.00	-21.43
2692.0	H	-	-	-77.45	1.26	30.81	-64.45	-13.00	-51.45
3365.0	V	240	256	-71.77	1.87	37.10	-58.16	-13.00	-45.16
4038.0	H	-	-	-78.32	3.41	32.09	-63.16	-13.00	-50.16
4711.0	H	-	-	-78.10	4.48	33.38	-61.88	-13.00	-48.88
5384.0	H	-	-	-78.42	5.07	33.65	-61.61	-13.00	-48.61

Table 7-67. Radiated Spurious Data (LTE Band 71 – Low Channel – Ant A)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 287 of 312



Bandwidth (MHz):	20
Frequency (MHz):	680.5
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]
1361.0	H	197	313	-76.11	-2.59	28.30	-66.96	-13.00	-53.96
2041.5	H	163	213	-44.34	-0.57	62.09	-33.17	-13.00	-20.17
2722.0	H	-	-	-76.82	0.72	30.90	-64.36	-13.00	-51.36
3402.5	V	225	252	-71.53	1.70	37.17	-58.09	-13.00	-45.09
4083.0	H	-	-	-78.03	2.96	31.93	-63.33	-13.00	-50.33
4763.5	H	-	-	-78.27	4.68	33.41	-61.85	-13.00	-48.85
5444.0	H	-	-	-78.55	5.61	34.06	-61.20	-13.00	-48.20

Table 7-68. Radiated Spurious Data (LTE Band 71 – Mid Channel – Ant A)

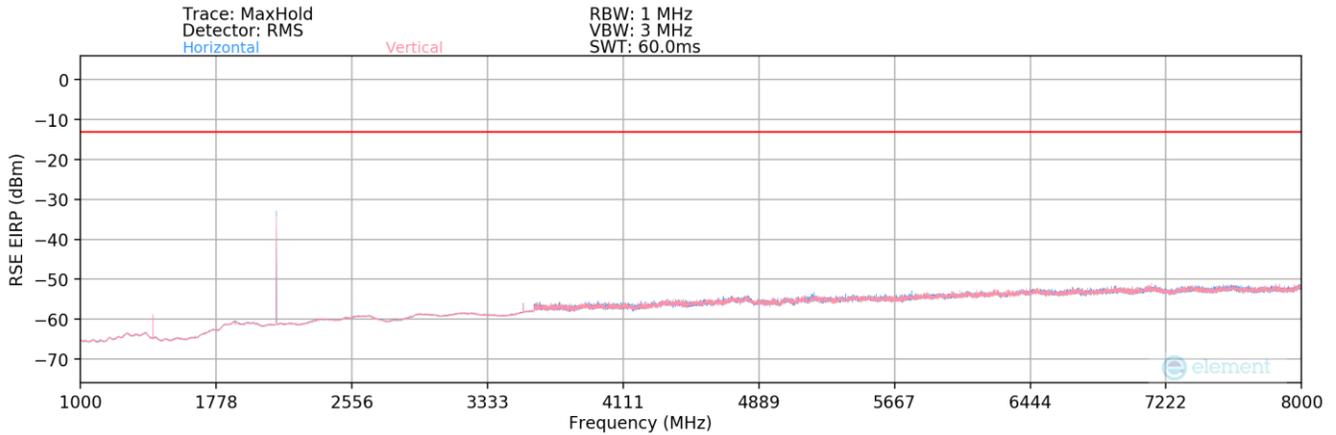
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

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]
1376.0	H	208	328	-75.44	-2.79	28.77	-66.48	-13.00	-53.48
2064.0	H	158	219	-44.31	-0.52	62.17	-33.09	-13.00	-20.09
2752.0	H	-	-	-77.12	0.49	30.37	-64.88	-13.00	-51.88
3440.0	V	249	271	-72.45	1.67	36.22	-59.03	-13.00	-46.03
4128.0	H	-	-	-77.93	3.01	32.08	-63.17	-13.00	-50.17
4816.0	H	-	-	-78.20	4.81	33.61	-61.64	-13.00	-48.64
5504.0	H	-	-	-78.15	5.29	34.14	-61.12	-13.00	-48.12

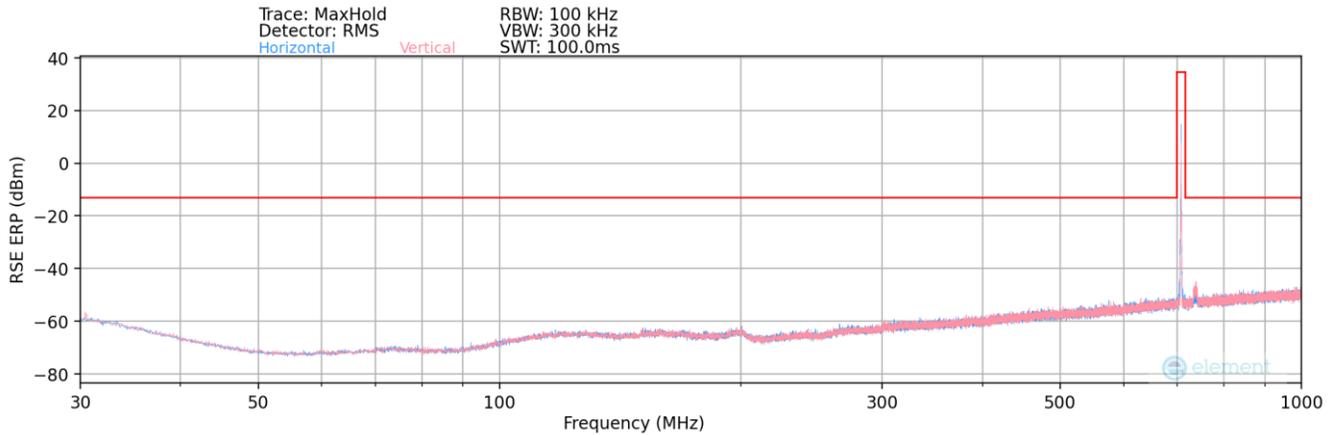
Table 7-69. Radiated Spurious Data (LTE Band 71 – High Channel – Ant A)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 288 of 312

LTE Band 12 – Ant A



Plot 7-474. Radiated Spurious Plot (LTE Band 12 – Ant A – Closed)



Plot 7-475. Radiated Spurious Plot (LTE Band 12 – Ant A – Closed – Below 1GHz)

Bandwidth (MHz):	10
Frequency (MHz):	704
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]
1408.00	V	165	240	-72.90	-3.69	30.41	-64.85	-13.00	-51.85
2112.00	H	149	198	-43.23	-0.26	63.51	-31.75	-13.00	-18.75
2816.00	H	-	-	-77.17	0.80	30.63	-64.63	-13.00	-51.63
3520.00	V	379	168	-70.30	2.19	38.89	-56.37	-13.00	-43.37
4224.00	H	-	-	-77.43	2.93	32.50	-62.76	-13.00	-49.76
4928.00	H	-	-	-78.09	3.97	32.88	-62.38	-13.00	-49.38

Table 7-70. Radiated Spurious Data (LTE Band 12 – Low Channel – Ant A – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 289 of 312

Bandwidth (MHz):	10
Frequency (MHz):	707.5
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]
1415.00	V	153	230	-71.48	-3.79	31.73	-63.53	-13.00	-50.53
2122.50	H	153	193	-42.76	-0.25	63.99	-31.26	-13.00	-18.26
2830.00	H	-	-	-77.41	0.83	30.42	-64.84	-13.00	-51.84
3537.50	V	376	163	-70.34	2.43	39.09	-56.16	-13.00	-43.16
4245.00	H	-	-	-77.50	3.01	32.51	-62.75	-13.00	-49.75
4952.50	H	-	-	-78.15	3.89	32.74	-62.52	-13.00	-49.52

Table 7-71. Radiated Spurious Data (LTE Band 12 – Mid Channel – Ant A– Closed)

Bandwidth (MHz):	10
Frequency (MHz):	711
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]
1422.00	V	159	309	-71.84	-3.83	31.33	-63.93	-13.00	-50.93
2133.00	H	164	202	-41.70	-0.22	65.08	-30.18	-13.00	-17.18
2844.00	H	-	-	-77.31	0.93	30.62	-64.64	-13.00	-51.64
3555.00	V	398	331	-71.55	2.76	38.21	-57.05	-13.00	-44.05
4266.00	H	-	-	-77.85	3.24	32.39	-62.87	-13.00	-49.87
4977.00	H	-	-	-78.28	4.07	32.79	-62.47	-13.00	-49.47

Table 7-72. Radiated Spurious Data (LTE Band 12 – High Channel – Ant A– Closed)

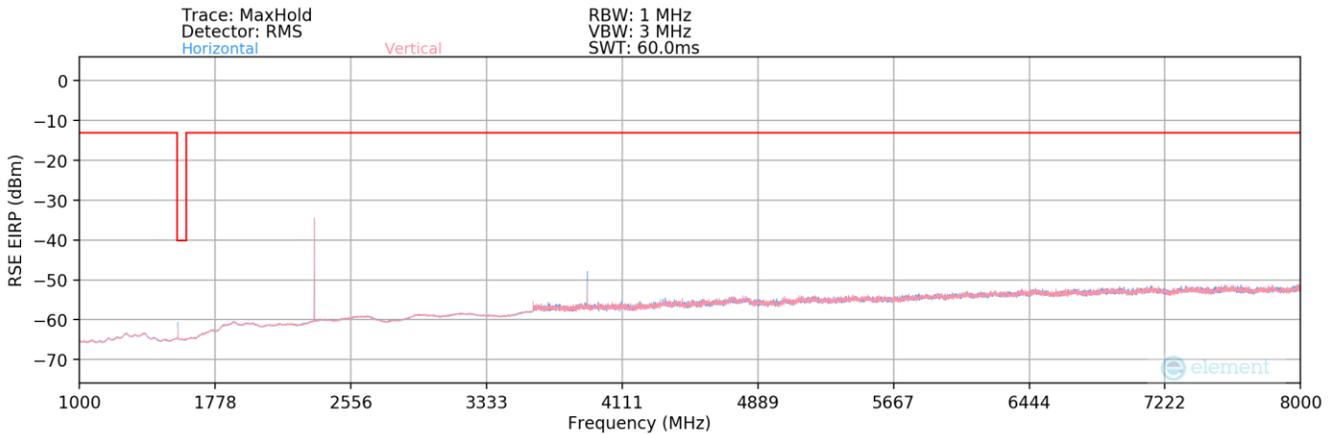
Bandwidth (MHz):	10
Frequency (MHz):	711.0
RB / Offset:	1 / 25
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
1422.0	H	158	224	-71.35	-3.83	31.82	-63.44	-13.00	-50.44
2133.0	H	140	198	-42.30	-0.22	64.48	-30.78	-13.00	-17.78
2844.0	H	-	-	-77.24	0.93	30.69	-64.57	-13.00	-51.57
3555.0	H	400	159	-66.63	2.76	43.13	-52.13	-13.00	-39.13
4266.0	H	-	-	-77.65	3.24	32.59	-62.67	-13.00	-49.67
4977.0	H	-	-	-78.28	4.07	32.79	-62.47	-13.00	-49.47

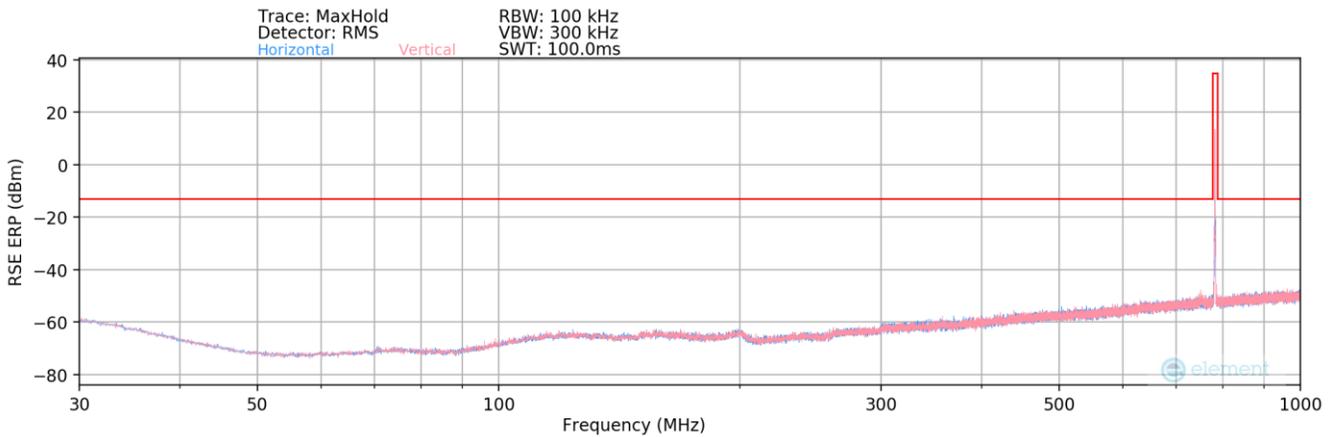
Table 7-73. Radiated Spurious Data with WCP (LTE Band 12 – Ant A– Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 290 of 312

LTE Band 13 – Ant A



Plot 7-476. Radiated Spurious Plot (LTE Band 13 – Ant A – Closed)



Plot 7-477. Radiated Spurious Plot (LTE Band 13 – Ant A – Closed – Below 1GHz)

Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
751.0	V	-	-	-88.69	29.63	47.94	-49.47	-13.00	-36.47

Table 7-74. Radiated Spurious Data <1GHz (LTE Band 13 – Mid Channel – Ant A – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 291 of 312



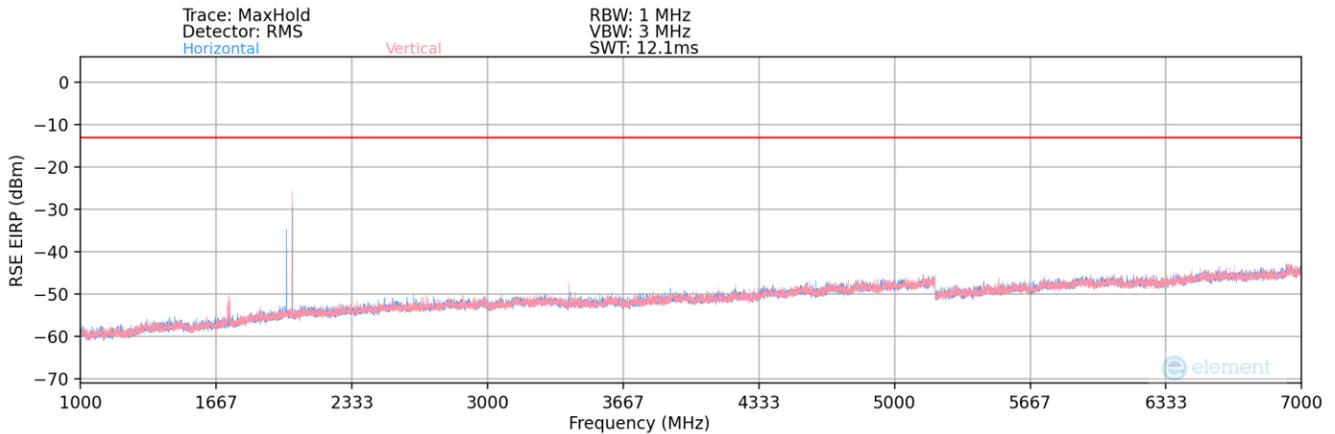
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

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]
1564.0	H	125	219	-67.89	-3.87	35.24	-60.02	-40.00	-20.02
2346.0	V	146	294	-46.22	0.64	61.42	-33.84	-13.00	-20.84
3128.0	H	-	-	-77.29	1.93	31.64	-63.62	-13.00	-50.62
3910.0	H	125	336	-66.01	3.09	44.08	-51.18	-13.00	-38.18
4692.0	H	-	-	-78.01	4.17	33.16	-62.09	-13.00	-49.09
5474.0	H	-	-	-78.29	5.29	34.00	-61.25	-13.00	-48.25

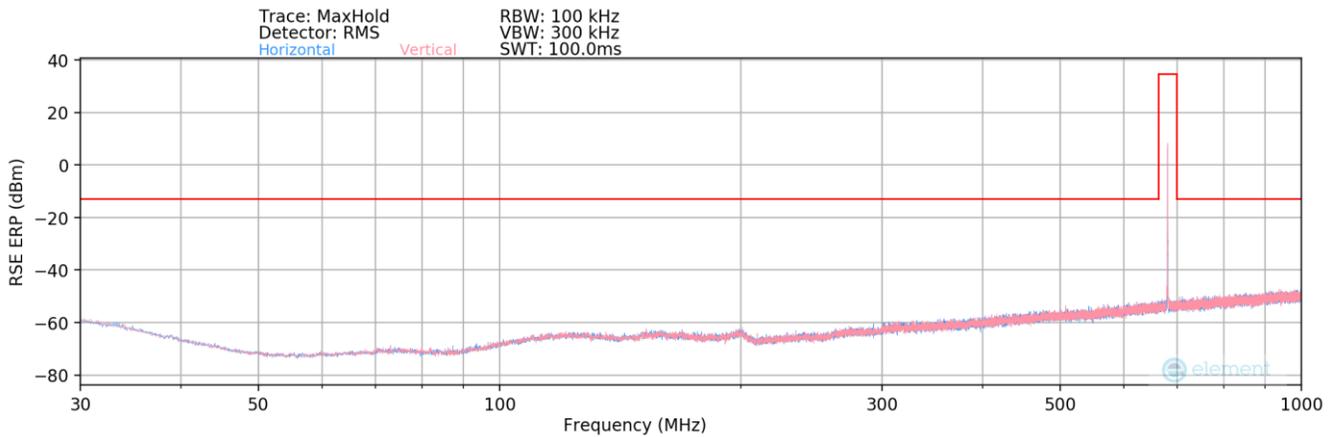
Table 7-75. Radiated Spurious Data (LTE Band 13 – Mid Channel – Ant A – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 292 of 312

NR Band n71 – Ant A



Plot 7-478. Radiated Spurious Plot (NR Band n71 – Ant A – Closed)



Plot 7-479. Radiated Spurious Plot (NR Band n71 – Ant A – Closed – Below 1GHz)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
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]
217.0	V	-	-	-95.01	17.85	29.84	-67.57	-13.00	-54.57
508.5	V	-	-	-94.93	25.96	38.03	-59.38	-13.00	-46.38

Table 7-76. Radiated Spurious Data <1GHz (NR Band n71 – Mid Channel – Ant A – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 293 of 312



Bandwidth (MHz):	20
Frequency (MHz):	673
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]
1346.0	V	199	211	-65.21	-0.04	41.75	-53.50	-13.00	-40.50
2019.0	V	41	270	-39.33	4.00	71.67	-23.59	-13.00	-10.59
2692.0	V	-	-	-70.01	5.52	42.51	-52.75	-13.00	-39.75
3365.0	V	119	300	-66.22	7.31	48.09	-47.17	-13.00	-34.17
4038.0	V	-	-	-71.22	8.60	44.38	-50.87	-13.00	-37.87
4711.0	V	-	-	-72.34	10.00	44.66	-50.59	-13.00	-37.59

Table 7-77. Radiated Spurious Data (NR Band n71 – Low Channel – Ant A – Closed)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
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]
1361.0	V	223	203	-64.59	0.03	42.44	-52.81	-13.00	-39.81
2041.5	V	138	256	-38.36	3.45	72.09	-23.17	-13.00	-10.17
2722.0	V	-	-	-69.85	5.90	43.05	-52.20	-13.00	-39.20
3402.5	V	116	336	-64.07	7.13	50.06	-45.19	-13.00	-32.19
4083.0	V	-	-	-70.45	8.44	44.99	-50.27	-13.00	-37.27
4763.5	V	-	-	-71.93	9.44	44.51	-50.75	-13.00	-37.75

Table 7-78. Radiated Spurious Data (NR Band n71 – Mid Channel – Ant A – Closed)

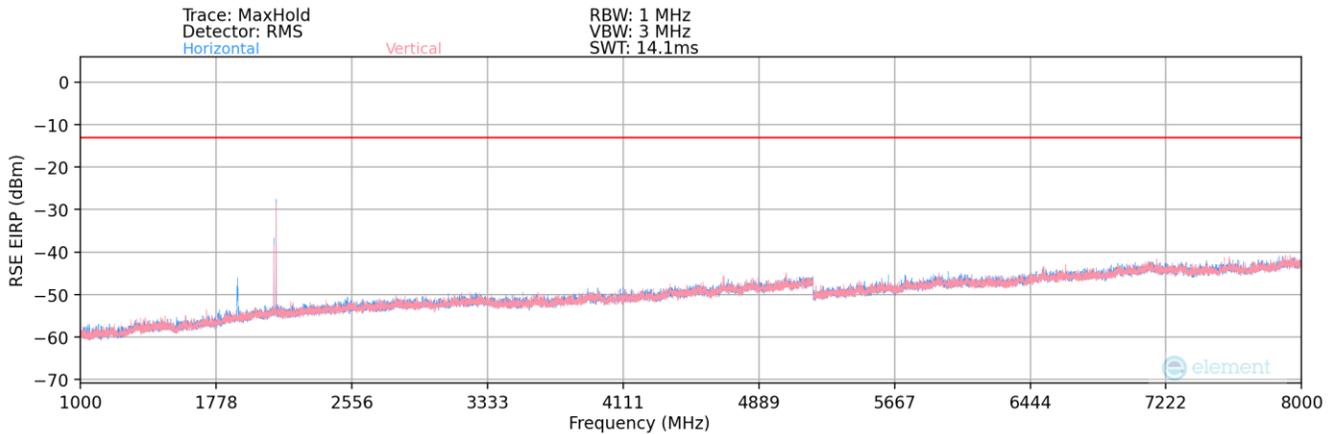
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

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]
1376.0	V	217	222	-65.21	-0.03	41.76	-53.49	-13.00	-40.49
2064.0	V	141	261	-39.24	3.51	71.27	-23.98	-13.00	-10.98
2752.0	V	-	-	-69.45	5.46	43.01	-52.24	-13.00	-39.24
3440.0	V	19	27	-63.33	7.42	51.09	-44.17	-13.00	-31.17
4128.0	V	-	-	-71.21	8.78	44.57	-50.69	-13.00	-37.69
4816.0	V	-	-	-72.01	9.83	44.82	-50.44	-13.00	-37.44

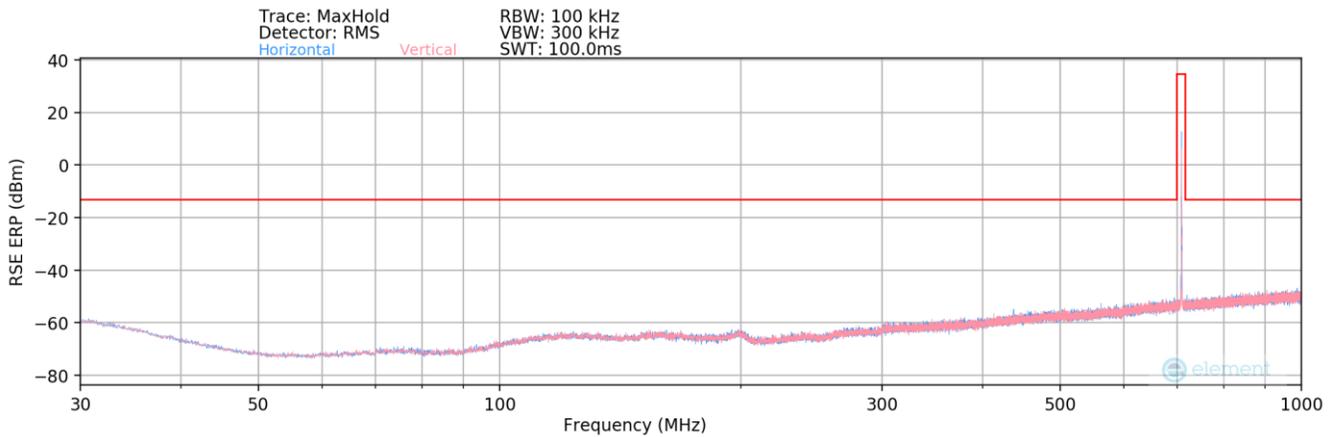
Table 7-79. Radiated Spurious Data (NR Band n71 – High Channel – Ant A – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 294 of 312

NR Band n12 – Ant A



Plot 7-480. Radiated Spurious Plot (NR Band n12 – Ant A – Closed)



Plot 7-481. Radiated Spurious Plot (NR Band n12 – Ant A – Closed – Below 1GHz)

Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 37

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]
415.0	V	-	-	-96.63	23.92	34.29	-63.12	-13.00	-50.12
440.0	H	-	-	-96.66	24.41	34.75	-62.66	-13.00	-49.66

Table 7-80. Radiated Spurious Data <1GHz (NR Band n12 – High Channel – Ant A – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 295 of 312



Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 37

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]
1413.0	V	119	203	-68.95	-0.35	37.70	-57.56	-13.00	-44.56
2119.5	V	224	260	-43.88	4.37	67.49	-27.77	-13.00	-14.77
2826.0	V	247	23	-70.69	6.27	42.58	-52.68	-13.00	-39.68
3532.5	V	-	-	-71.56	7.35	42.79	-52.46	-13.00	-39.46
4239.0	V	-	-	-70.94	8.83	44.89	-50.36	-13.00	-37.36

Table 7-81. Radiated Spurious Data (NR Band n12 – Low Channel – Ant A – Closed)

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 37

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]
1415.0	V	185	252	-43.05	-0.34	63.61	-31.65	-13.00	-18.65
2122.5	V	-	-	-69.05	4.34	42.29	-52.97	-13.00	-39.97
2830.0	V	137	177	-68.68	6.32	44.64	-50.62	-13.00	-37.62
3537.5	V	-	-	-68.81	7.37	45.56	-49.70	-13.00	-36.70
4245.0	V	-	-	-67.81	8.79	47.98	-47.28	-13.00	-34.28

Table 7-82. Radiated Spurious Data (NR Band n12 – Mid Channel – Ant A – Closed)

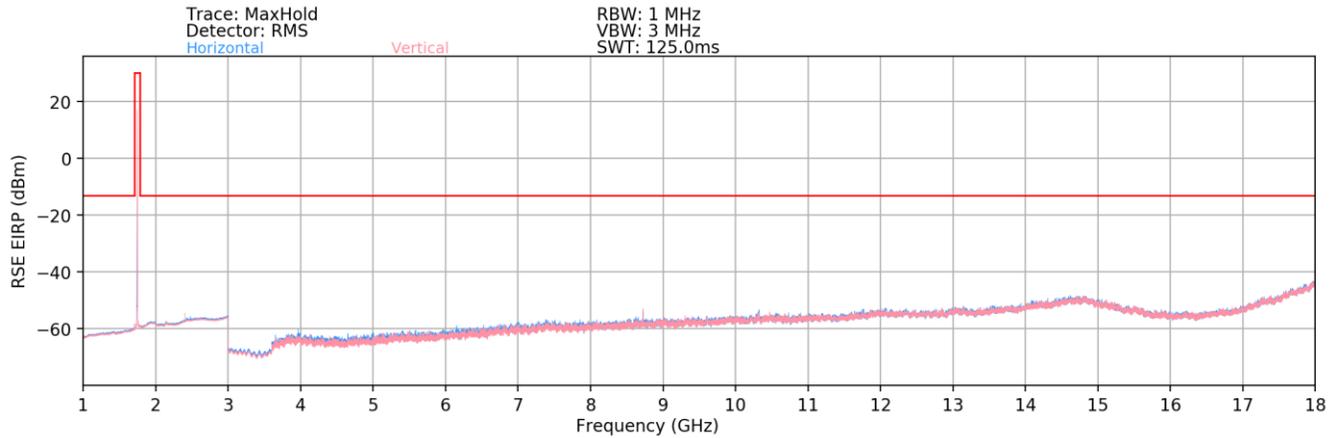
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 37

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]
1417.0	V	214	227	-67.94	-0.31	38.75	-56.50	-13.00	-43.50
2125.5	V	119	207	-44.32	4.30	66.98	-28.27	-13.00	-15.27
2834.0	V	-	-	-69.61	6.35	43.74	-51.52	-13.00	-38.52
3542.5	V	367	134	-67.61	7.41	46.80	-48.45	-13.00	-35.45
4251.0	V	-	-	-72.11	8.75	43.64	-51.62	-13.00	-38.62
4959.5	V	-	-	-71.66	9.93	45.27	-49.99	-13.00	-36.99

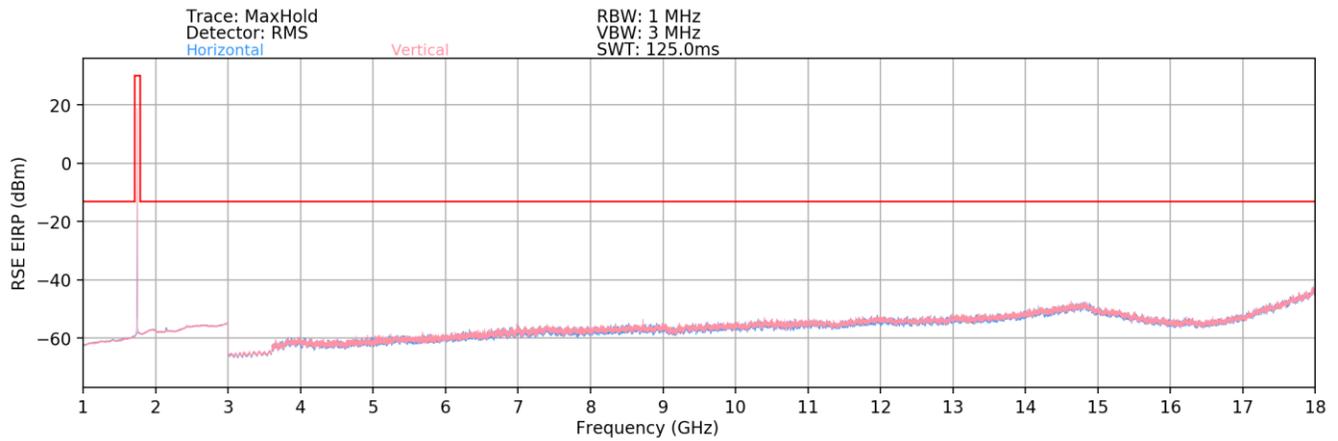
Table 7-83. Radiated Spurious Data (NR Band n12 – High Channel – Ant A – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 296 of 312

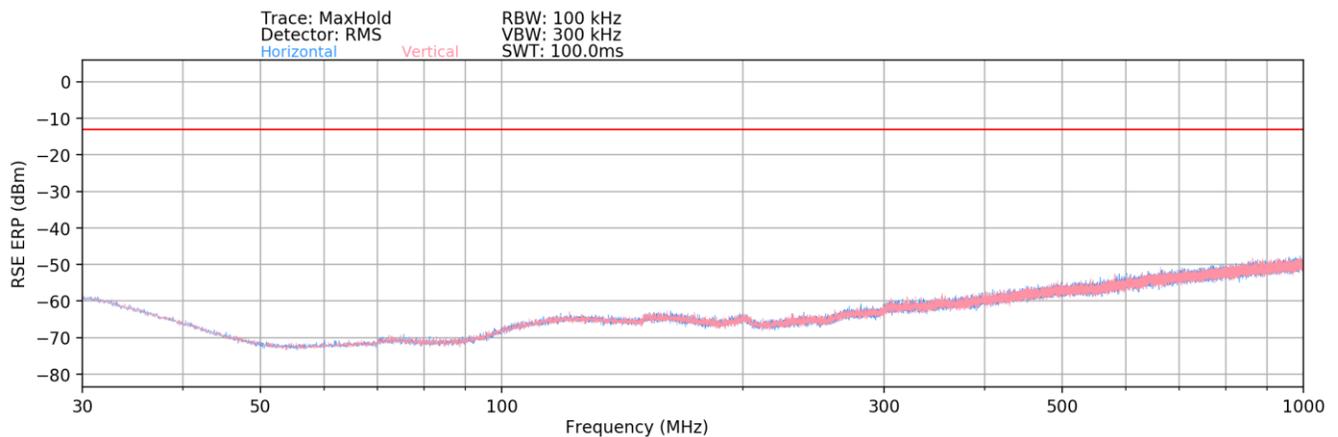
LTE Band 66/4 – Ant F



Plot 7-482. Radiated Spurious Plot (LTE Band 66/4 – Ant F - Open)



Plot 7-483. Radiated Spurious Plot (LTE Band 66/4 – Ant F – Closed)



Plot 7-484. Radiated Spurious Plot (LTE Band 66/4 – Ant F – Open)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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 [dB μ V/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
59.0	V	-	-	-92.01	13.95	28.94	-68.46	-13.00	-55.46
109.0	V	-	-	-91.95	19.08	34.13	-63.28	-13.00	-50.28
211.0	V	-	-	-91.48	17.41	32.93	-64.48	-13.00	-51.48
508.0	V	-	-	-90.96	25.61	41.65	-55.76	-13.00	-42.76

Table 7-84. Radiated Spurious Data <1GHz (LTE Band 66/4 – Mid Channel – Ant F – Open)

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-78.88	-0.52	27.60	-67.66	-13.00	-54.66
5160.0	V	-	-	-79.47	2.11	29.64	-65.62	-13.00	-52.62
6880.0	V	133	40	-76.34	5.79	36.45	-58.81	-13.00	-45.81
8600.0	V	197	25	-76.91	8.93	39.02	-56.23	-13.00	-43.23
10320.0	V	-	-	-80.84	11.73	37.89	-57.37	-13.00	-44.37
12040.0	V	-	-	-81.37	12.68	38.31	-56.95	-13.00	-43.95
13760.0	V	-	-	-80.99	14.17	40.18	-55.08	-13.00	-42.08

Table 7-85. Radiated Spurious Data (LTE Band 66/4 – Low Channel – Ant F – Open)

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	114	284	-77.91	-1.08	28.01	-67.24	-13.00	-54.24
5235.0	V	-	-	-79.36	2.23	29.87	-65.38	-13.00	-52.38
6980.0	V	125	44	-76.84	6.85	37.01	-58.24	-13.00	-45.24
8725.0	V	163	364	-76.52	8.99	39.47	-55.78	-13.00	-42.78
10470.0	V	-	-	-81.19	11.52	37.33	-57.93	-13.00	-44.93
12215.0	V	-	-	-81.74	12.49	37.75	-57.51	-13.00	-44.51
13960.0	V	-	-	-80.87	14.20	40.33	-54.93	-13.00	-41.93

Table 7-86. Radiated Spurious Data (LTE Band 66/4 – Mid Channel – Ant F – Open)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
3540.0	V	114	284	-78.54	-0.66	27.80	-67.46	-13.00	-54.46
5310.0	V	-	-	-79.27	2.89	30.62	-64.63	-13.00	-51.63
7080.0	V	117	35	-74.55	6.51	38.96	-56.30	-13.00	-43.30
8850.0	V	171	22	-78.53	8.74	37.21	-58.04	-13.00	-45.04
10620.0	V	-	-	-81.81	11.44	36.63	-58.63	-13.00	-45.63
12390.0	V	-	-	-81.70	12.73	38.03	-57.23	-13.00	-44.23
14160.0	V	-	-	-81.25	15.43	41.18	-54.07	-13.00	-41.07

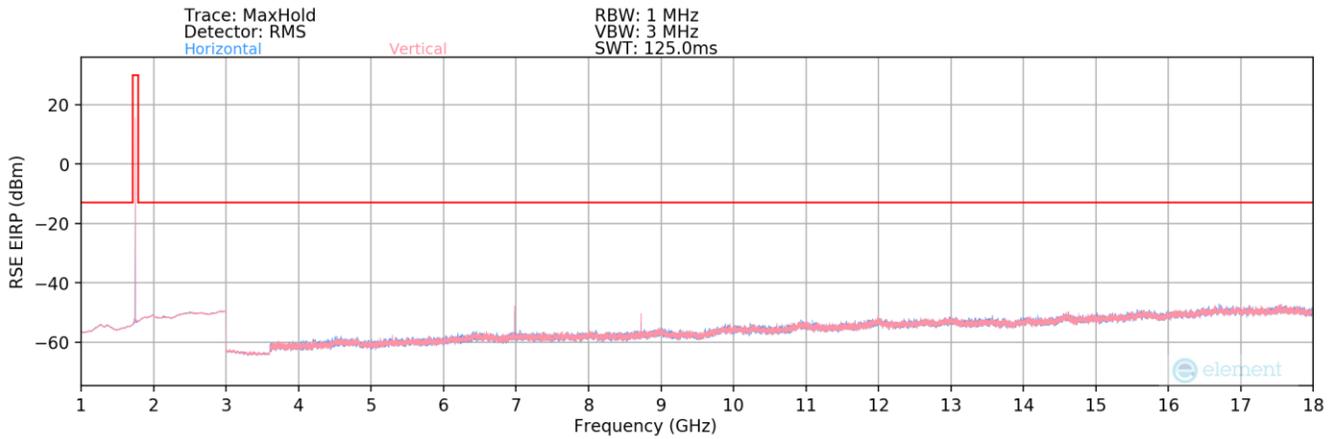
Table 7-87. Radiated Spurious Data (LTE Band 66/4 – High Channel – Ant F – Open)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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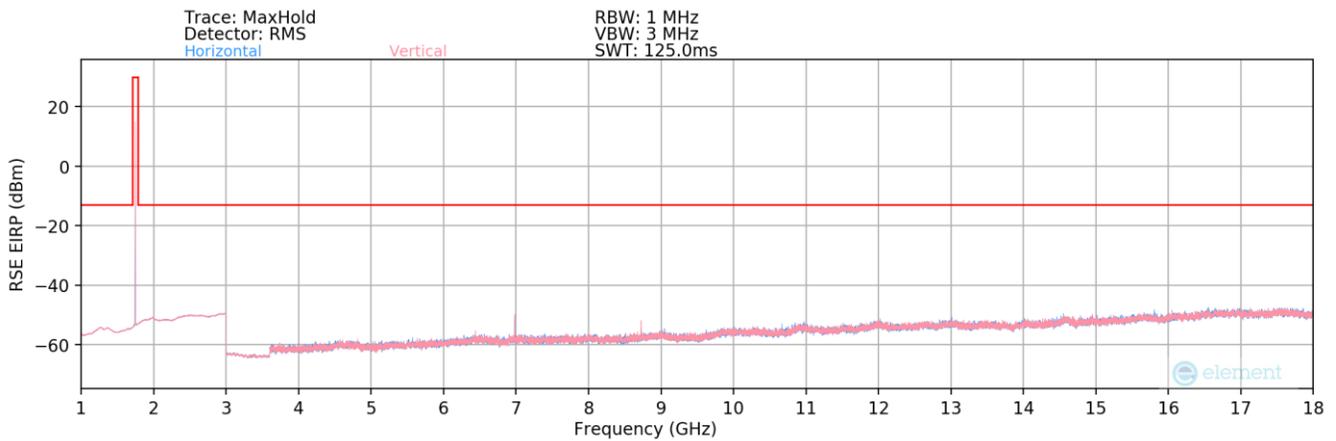
V3.0 1/5/2022

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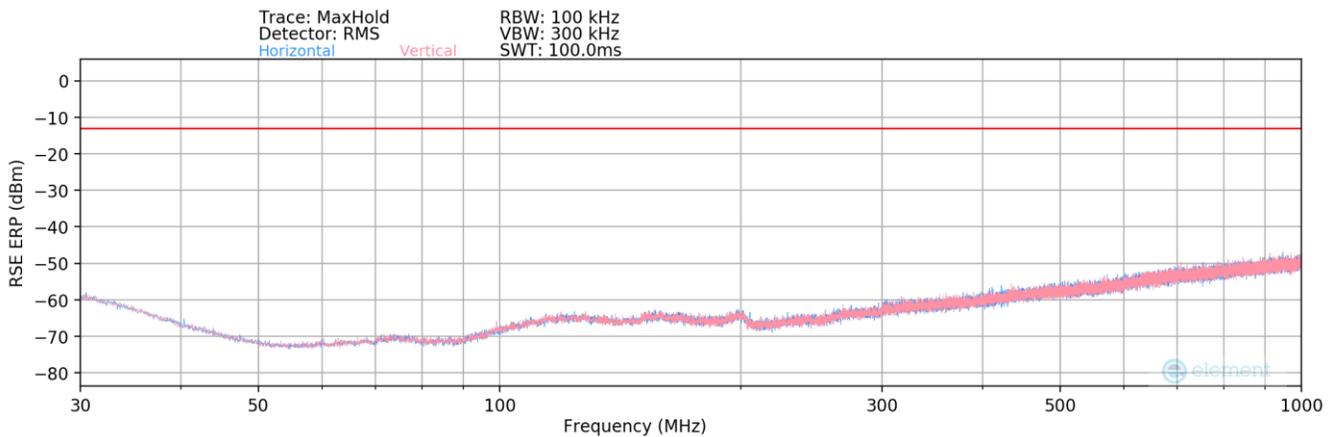
NR Band n66 – Ant F



Plot 7-485. Radiated Spurious Plot (NR Band n66 – Ant F - Open)



Plot 7-486. Radiated Spurious Plot (NR Band n66 – Ant F – Closed)



Plot 7-487. Radiated Spurious Plot (NR Band n66 – Ant F – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	1745
RB / Offset:	1 / 108

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]
180.3	H	-	-	-84.17	18.69	41.52	-55.89	-13.00	-42.89
200.0	H	-	-	-84.18	20.24	43.06	-54.35	-13.00	-41.35
308.6	H	-	-	-84.09	21.25	44.16	-53.24	-13.00	-40.24
323.7	H	-	-	-84.11	21.35	44.24	-53.17	-13.00	-40.17
522.9	H	-	-	-84.10	26.25	49.15	-48.25	-13.00	-35.25

Table 7-88. Radiated Spurious Data <1GHz (NR Band n66 – Mid Channel – Ant F– Closed)

Bandwidth (MHz):	40
Frequency (MHz):	1730
RB / Offset:	1 / 108

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]
3460.0	V	-	-	-77.07	2.77	32.70	-62.56	-13.00	-49.56
5190.0	V	-	-	-78.74	5.23	33.49	-61.77	-13.00	-48.77
6920.0	V	123	14	-71.81	7.73	42.92	-52.34	-13.00	-39.34
8650.0	V	119	0	-75.49	8.88	40.39	-54.86	-13.00	-41.86
10380.0	V	-	-	-80.39	11.29	37.90	-57.36	-13.00	-44.36
12110.0	V	-	-	-80.45	13.94	40.49	-54.77	-13.00	-41.77
13840.0	V	-	-	-81.04	14.90	40.86	-54.40	-13.00	-41.40

Table 7-89. Radiated Spurious Data (NR Band n66 – Low Channel – Ant F– Closed)

Bandwidth (MHz):	40
Frequency (MHz):	1745
RB / Offset:	1 / 108

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]
3490.0	V	-	-	-77.39	2.69	32.30	-62.96	-13.00	-49.96
5235.0	V	-	-	-78.77	5.03	33.26	-62.00	-13.00	-49.00
6980.0	V	128	10	-69.41	7.16	44.75	-50.51	-13.00	-37.51
8725.0	V	140	8	-73.64	8.55	41.91	-53.34	-13.00	-40.34
10470.0	V	-	-	-80.51	11.64	38.13	-57.13	-13.00	-44.13
12215.0	V	-	-	-80.35	13.70	40.35	-54.91	-13.00	-41.91
13960.0	V	-	-	-80.66	14.14	40.48	-54.78	-13.00	-41.78

Table 7-90. Radiated Spurious Data (NR Band n66 – Mid Channel – Ant F– Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	1760
RB / Offset:	1 / 108

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]
3520.0	V	-	-	-76.94	2.47	32.53	-62.73	-13.00	-49.73
5280.0	V	-	-	-78.49	5.00	33.51	-61.75	-13.00	-48.75
7040.0	V	110	1	-71.12	7.20	43.08	-52.18	-13.00	-39.18
8800.0	V	143	355	-75.65	8.31	39.66	-55.60	-13.00	-42.60
10560.0	V	-	-	-80.70	11.84	38.14	-57.11	-13.00	-44.11
12320.0	V	-	-	-80.39	13.46	40.07	-55.18	-13.00	-42.18
14080.0	V	-	-	-80.62	14.68	41.06	-54.20	-13.00	-41.20

Table 7-91. Radiated Spurious Data (NR Band n66 – High Channel – Ant F– Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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

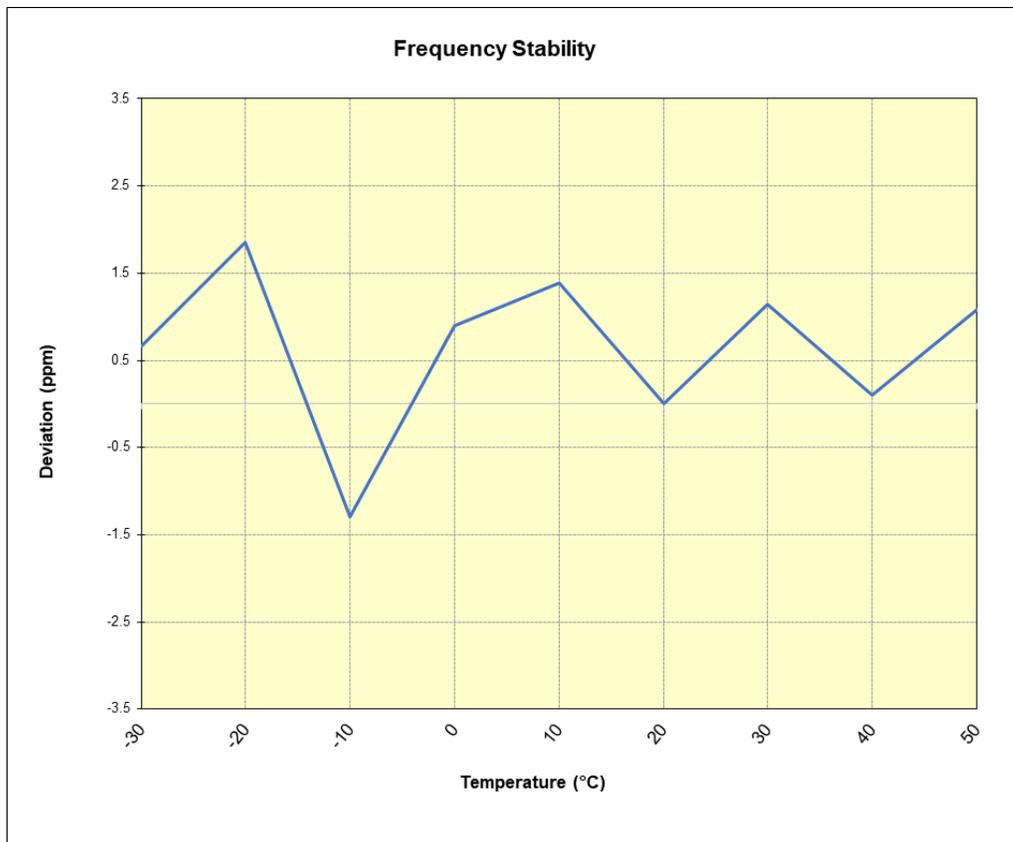
FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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V3.0 1/5/2022

Frequency Stability / Temperature Variation

LTE Band 71					
Operating Frequency (Hz):		680,500,000			
Ref. Voltage (VDC):		4.38			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.38	- 30	680,595,199	455	0.0000668
		- 20	680,596,007	1,262	0.0001855
		- 10	680,593,865	-880	-0.0001293
		0	680,595,357	612	0.0000899
		+ 10	680,595,686	941	0.0001383
		+ 20 (Ref)	680,594,745	0	0.0000000
		+ 30	680,595,526	781	0.0001147
		+ 40	680,594,817	72	0.0000106
Battery Endpoint	3.35	+ 20	680,595,001	256	0.0000377

Table 7-92. LTE Band 71 Frequency Stability Data



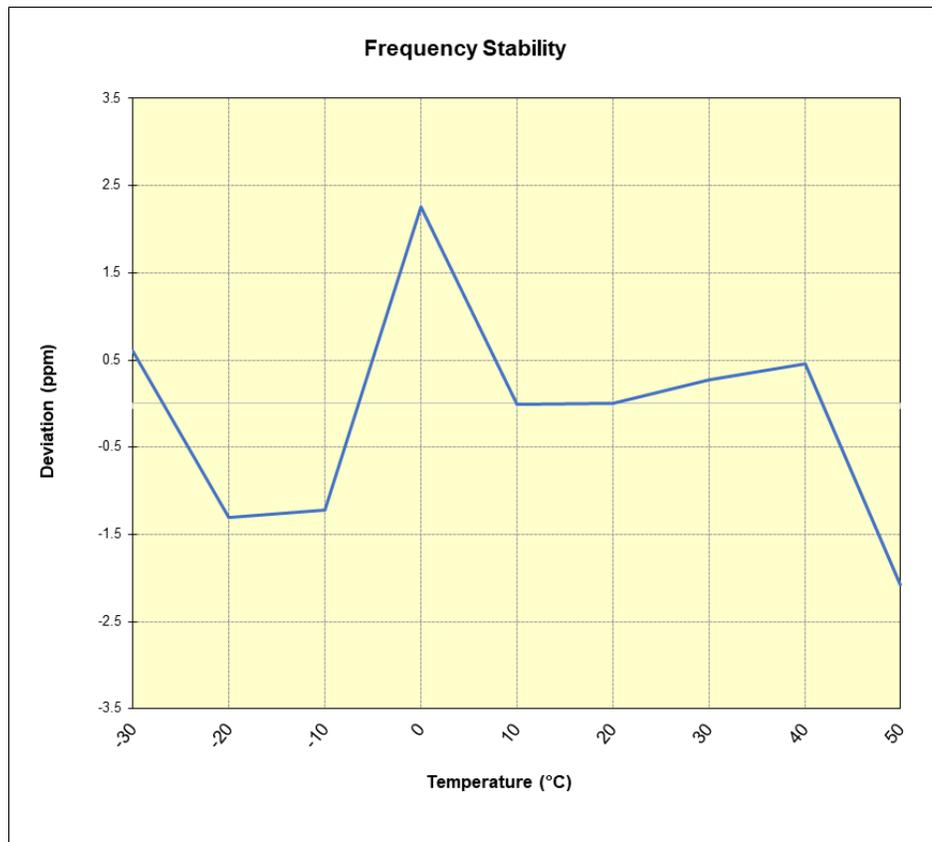
Plot 7-488. LTE Band 71 Frequency Stability Chart

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 12					
		Operating Frequency (Hz):		707,500,000	
		Ref. Voltage (VDC):		4.38	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.38	- 30	707,590,210	425	0.0000601
		- 20	707,588,865	-920	-0.0001300
		- 10	707,588,918	-866	-0.0001224
		0	707,591,385	1,601	0.0002262
		+ 10	707,589,775	-9	-0.0000013
		+ 20 (Ref)	707,589,784	0	0.0000000
		+ 30	707,589,979	195	0.0000275
		+ 40	707,590,108	323	0.0000457
		+ 50	707,588,313	-1,472	-0.0002080
Battery Endpoint	3.35	+ 20	707,589,666	-118	-0.0000167

Table 7-93. LTE Band 12 Frequency Stability Data



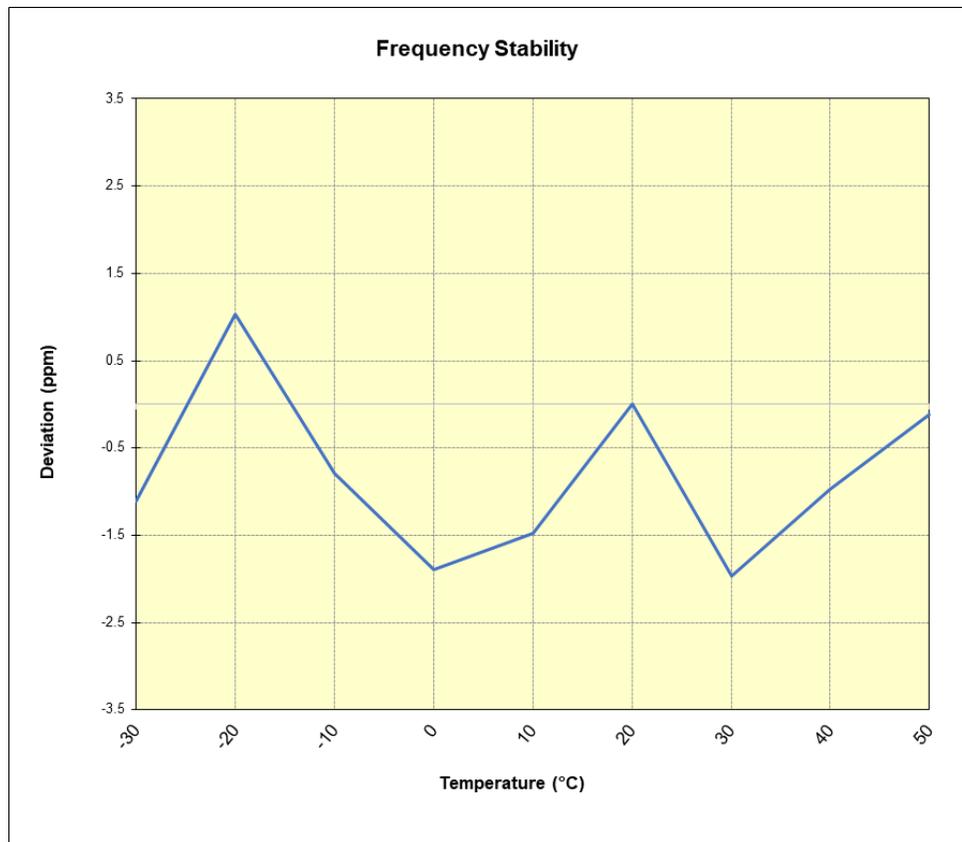
Plot 7-489. LTE Band 12 Frequency Stability Chart

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 13					
Operating Frequency (Hz):		782,000,000			
Ref. Voltage (VDC):		4.38			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.38	- 30	782,081,748	-869	-0.0001111
		- 20	782,083,429	812	0.0001038
		- 10	782,082,002	-615	-0.0000786
		0	782,081,139	-1,478	-0.0001890
		+ 10	782,081,459	-1,158	-0.0001481
		+ 20 (Ref)	782,082,617	0	0.0000000
		+ 30	782,081,081	-1,536	-0.0001964
		+ 40	782,081,854	-763	-0.0000975
		+ 50	782,082,523	-94	-0.0000121
Battery Endpoint	3.35	+ 20	782,083,012	395	0.0000505

Table 7-94. LTE Band 13 Frequency Stability Data



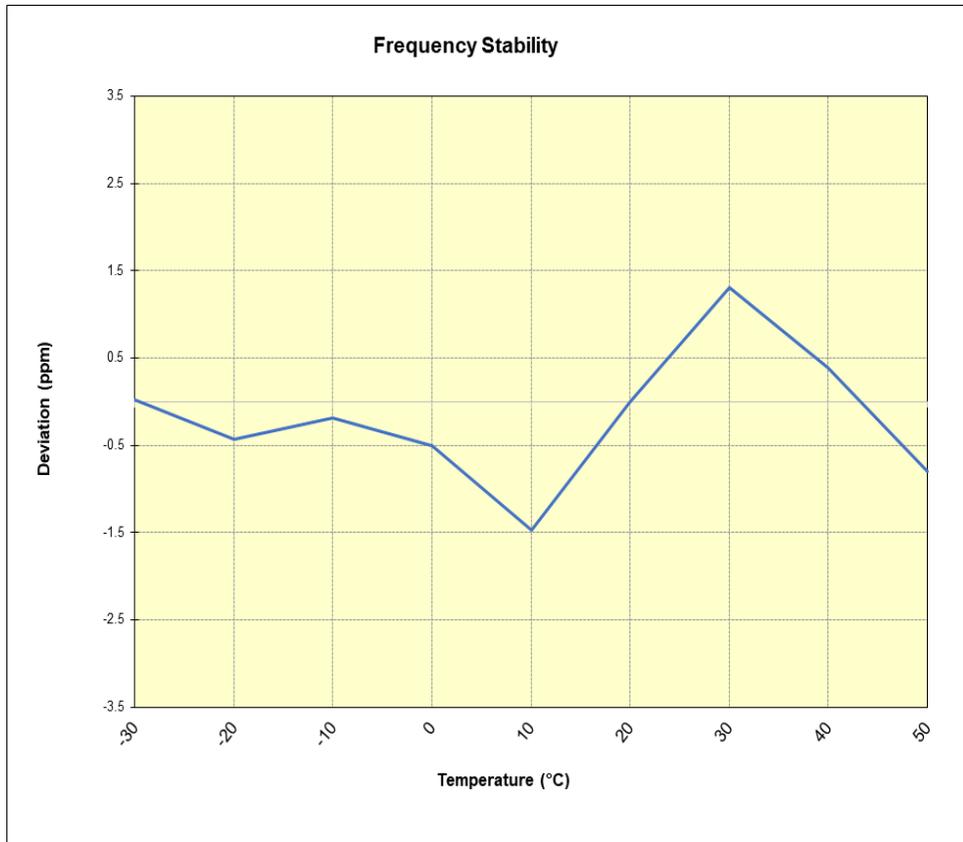
Plot 7-490. LTE Band 13 Frequency Stability Chart

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n71					
Operating Frequency (Hz):		680,500,000			
Ref. Voltage (VDC):		4.38			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.38	- 30	680,017,515	19	0.0000027
		- 20	680,017,205	-292	-0.0000429
		- 10	680,017,373	-124	-0.0000182
		0	680,017,151	-346	-0.0000509
		+ 10	680,016,493	-1,004	-0.0001476
		+ 20 (Ref)	680,017,497	0	0.0000000
		+ 30	680,018,384	888	0.0001305
		+ 40	680,017,762	265	0.0000390
Battery Endpoint	3.35	+ 20	680,017,555	58	0.0000086

Table 7-95. NR Band n71 Frequency Stability Data



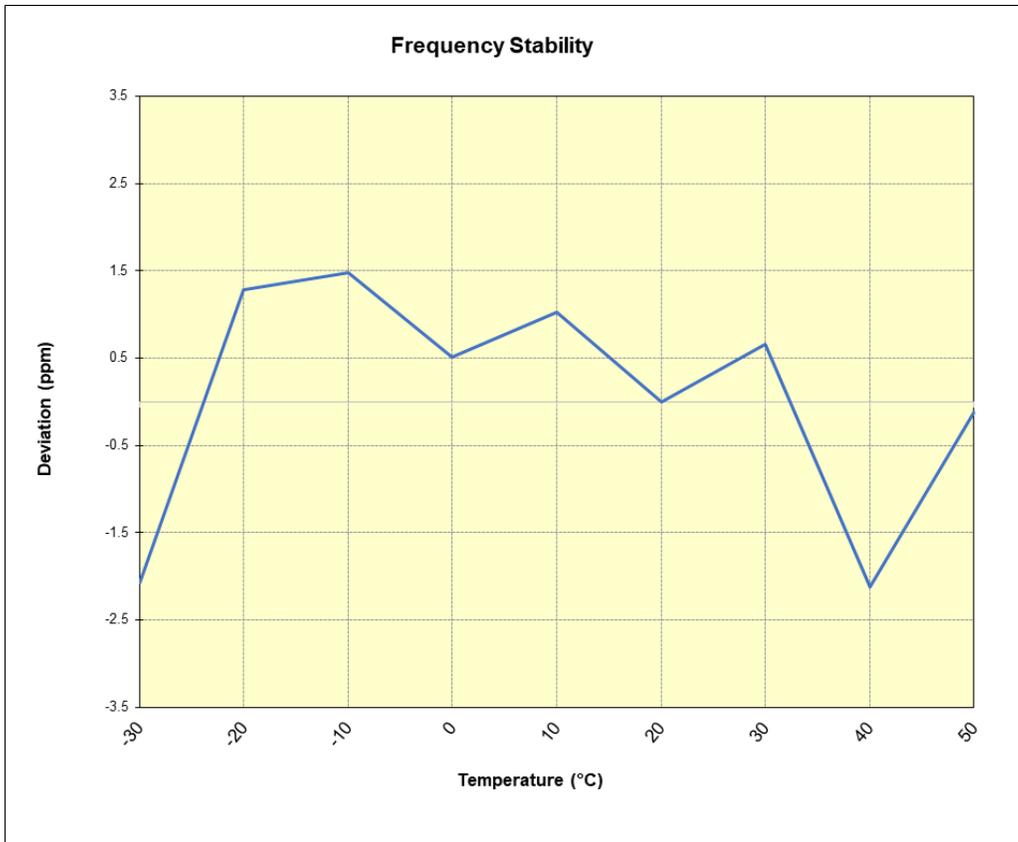
Plot 7-491. NR Band n71 Frequency Stability Chart

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n12					
		Operating Frequency (Hz):		707,500,000	
		Ref. Voltage (VDC):		4.38	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.38	- 30	707,120,640	-1,461	-0.0002067
		- 20	707,123,009	908	0.0001284
		- 10	707,123,145	1,044	0.0001476
		0	707,122,468	367	0.0000519
		+ 10	707,122,829	728	0.0001029
		+ 20 (Ref)	707,122,101	0	0.0000000
		+ 30	707,122,563	462	0.0000653
		+ 40	707,120,605	-1,496	-0.0002115
		+ 50	707,122,013	-88	-0.0000124
Battery Endpoint	3.35	+ 20	707,122,598	497	0.0000702

Table 7-96. NR Band n12 Frequency Stability Data



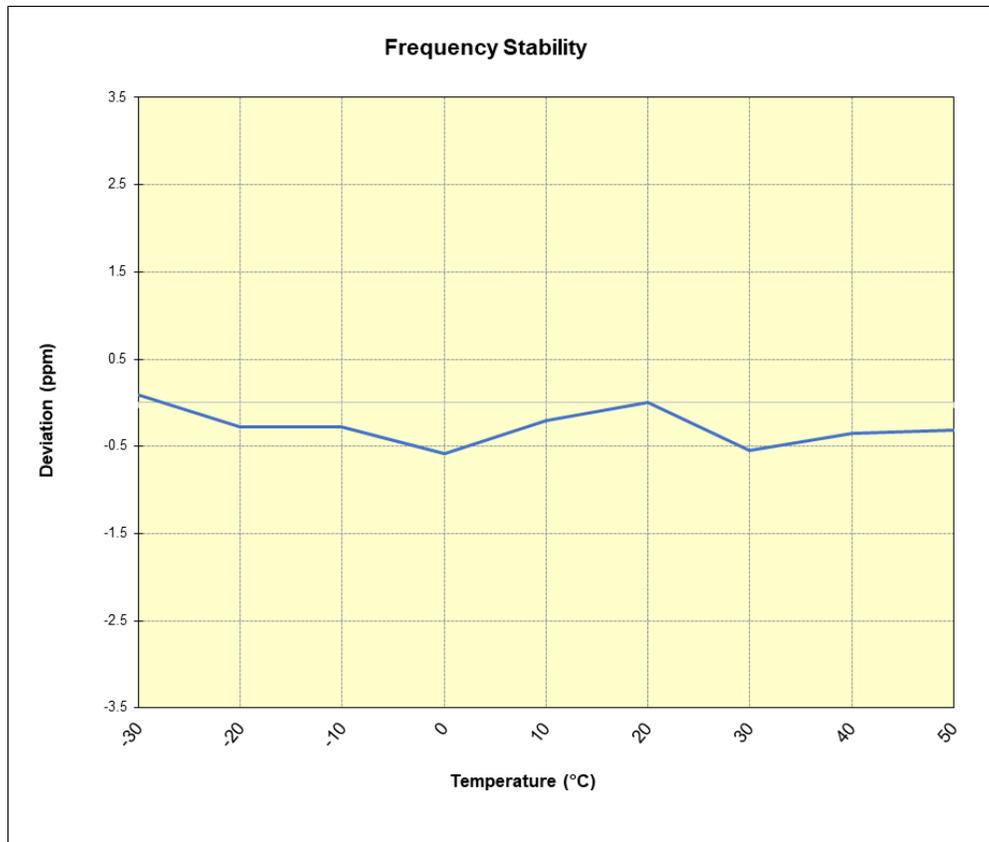
Plot 7-492. NR Band n12 Frequency Stability Chart

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

WCDMA AWS					
		Operating Frequency (Hz):	1,732,600,000		
		Ref. Voltage (VDC):	4.38		
		Deviation Limit:	± 0.00025% or 2.5 ppm		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.38	- 30	1,732,600,788	158	0.0000091
		- 20	1,732,600,152	-478	-0.0000276
		- 10	1,732,600,152	-478	-0.0000276
		0	1,732,599,619	-1,011	-0.0000584
		+ 10	1,732,600,287	-343	-0.0000198
		+ 20 (Ref)	1,732,600,630	0	0.0000000
		+ 30	1,732,599,675	-955	-0.0000551
		+ 40	1,732,600,023	-607	-0.0000350
Battery Endpoint	3.35	+ 20	1,732,600,449	-181	-0.0000104

Table 7-97. WCDMA AWS Frequency Stability Data



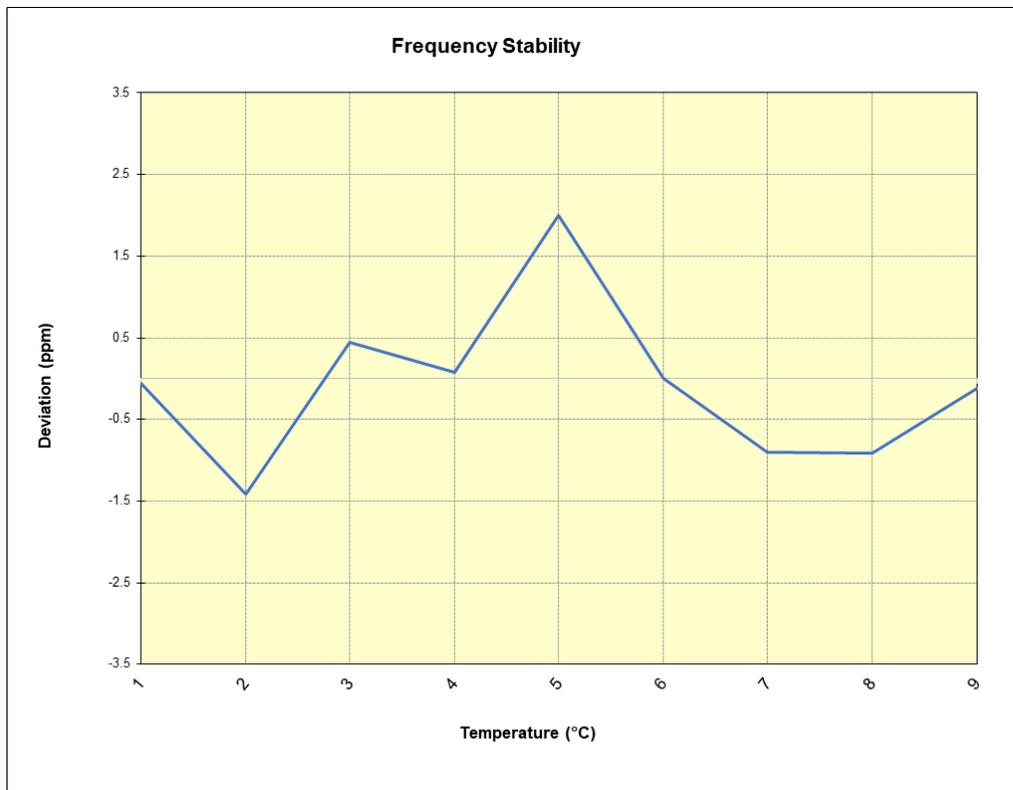
Plot 7-493. WCDMA AWS Frequency Stability Chart

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 66					
		Operating Frequency (Hz):		1,745,000,000	
		Ref. Voltage (VDC):		4.38	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.38	- 30	1,745,092,982	-109	-0.0000063
		- 20	1,745,090,625	-2,467	-0.0001413
		- 10	1,745,093,868	777	0.0000445
		0	1,745,093,216	125	0.0000072
		+ 10	1,745,096,576	3,484	0.0001997
		+ 20 (Ref)	1,745,093,091	0	0.0000000
		+ 30	1,745,091,511	-1,580	-0.0000905
		+ 40	1,745,091,495	-1,596	-0.0000915
Battery Endpoint	3.35	+ 20	1,745,093,159	68	0.0000039

Table 7-98. LTE Band 66/4 Frequency Stability Data



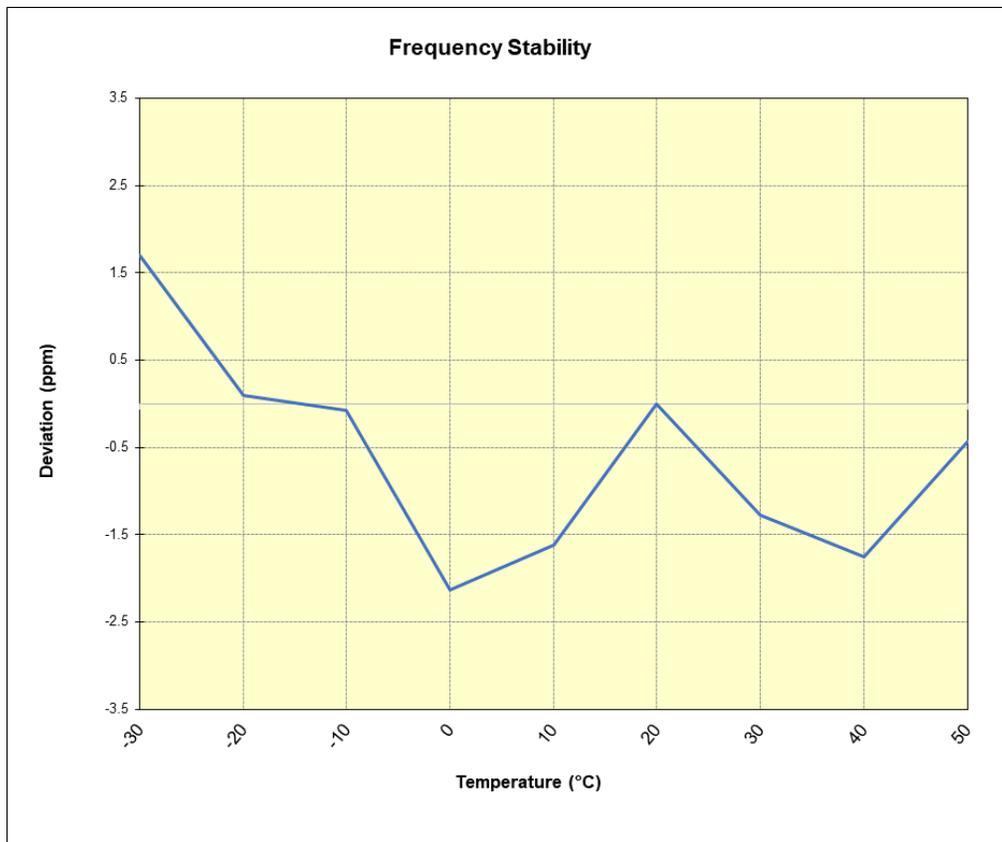
Plot 7-494. LTE Band 66/4 Frequency Stability Chart

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Frequency Stability / Temperature Variation

NR Band n66					
		Operating Frequency (Hz):		1,745,000,000	
		Ref. Voltage (VDC):		4.38	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.38	- 30	1,745,079,854	2,967	0.0001700
		- 20	1,745,077,048	161	0.0000092
		- 10	1,745,076,759	-128	-0.0000073
		0	1,745,073,166	-3,721	-0.0002132
		+ 10	1,745,074,069	-2,818	-0.0001615
		+ 20 (Ref)	1,745,076,887	0	0.0000000
		+ 30	1,745,074,668	-2,219	-0.0001272
		+ 40	1,745,073,819	-3,068	-0.0001758
		+ 50	1,745,076,143	-744	-0.0000426
Battery Endpoint	3.35	+ 20	1,745,073,177	-3,710	-0.0002126

Table 7-99. NR Band n66 Frequency Stability Data



Plot 7-495. NR Band n66 Frequency Stability Chart

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF936U** complies with all the requirements of Part 27 of the FCC rules.

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