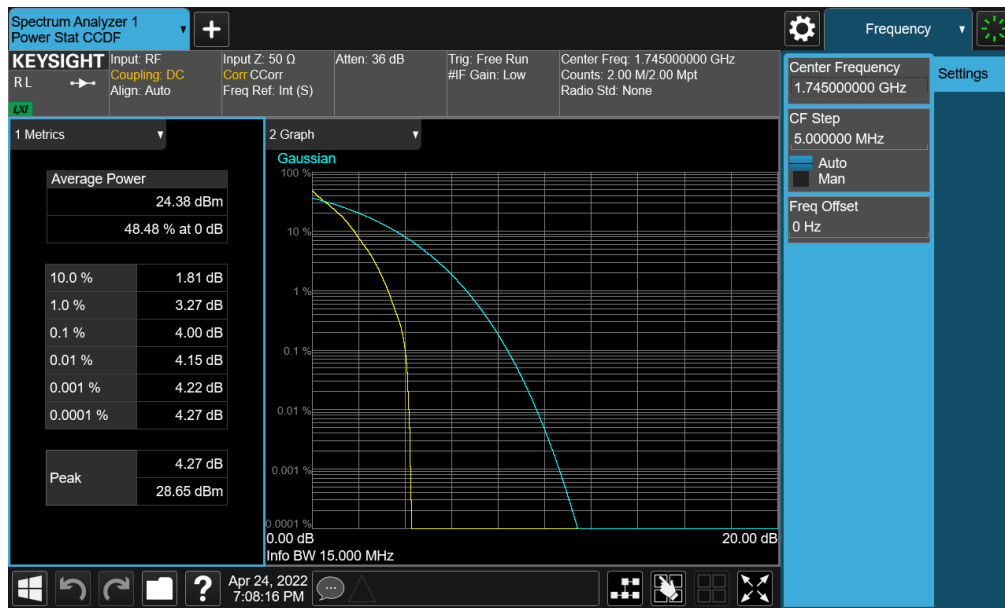




Plot 7-329. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB)

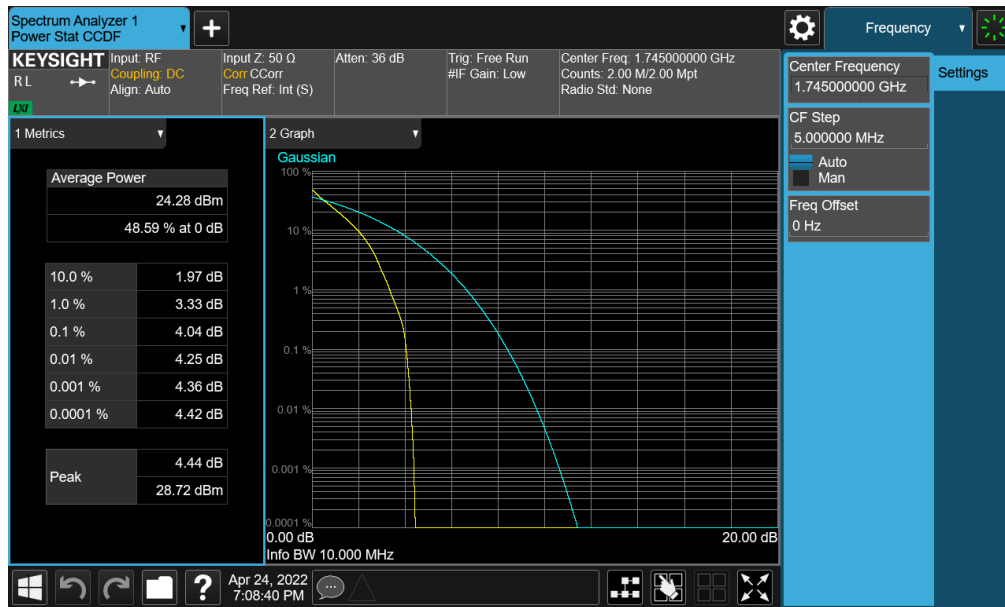


Plot 7-330. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

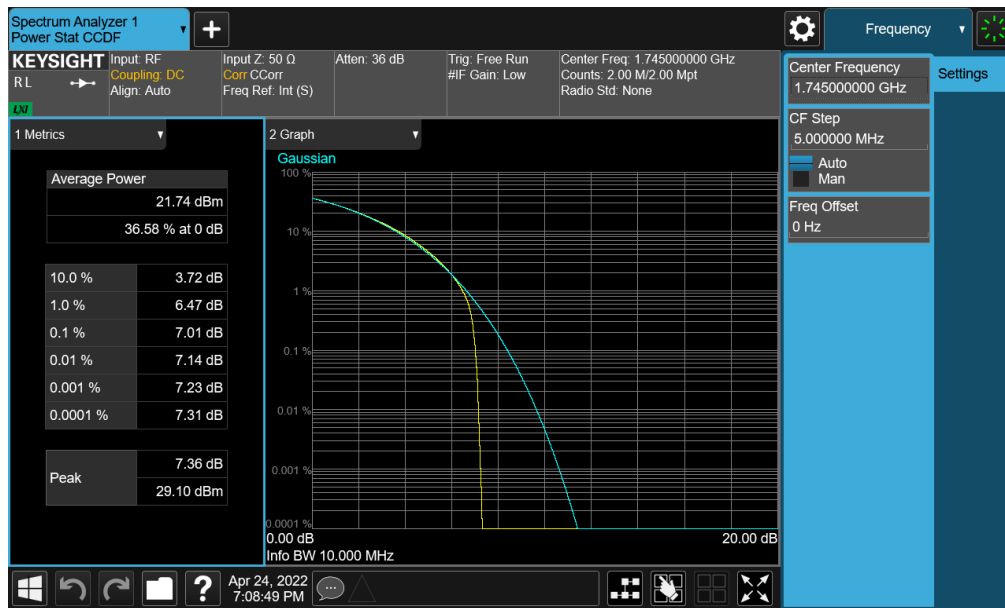
FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 192 of 275



FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 193 of 275

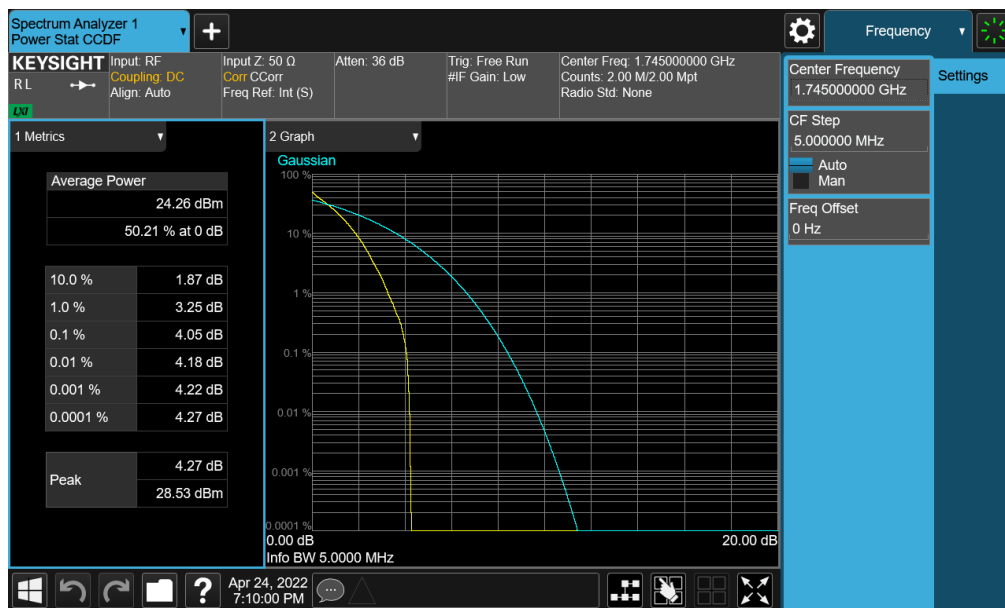


Plot 7-333. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB)



Plot 7-334. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 194 of 275

V3.0 1/5/2022



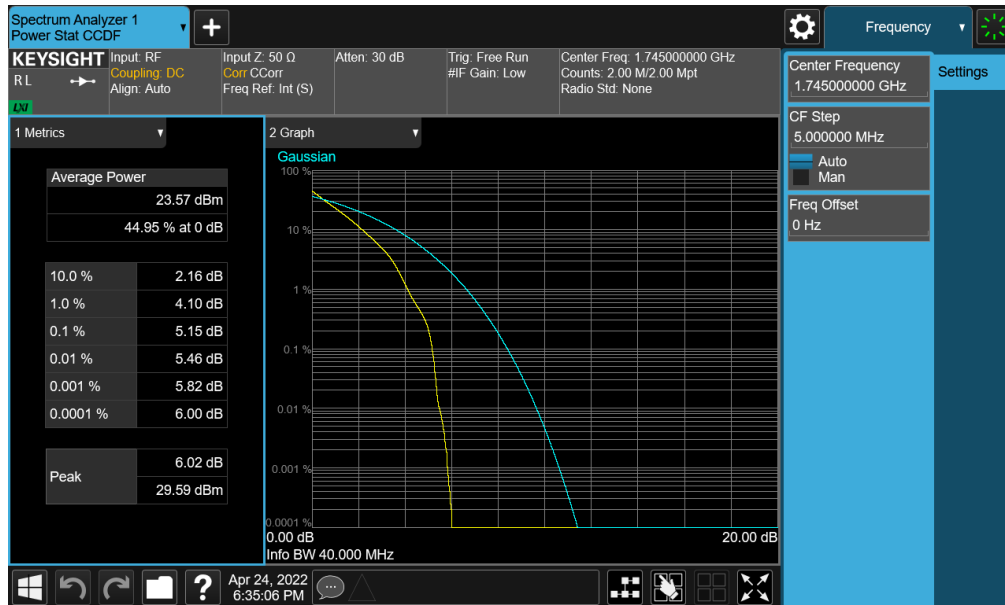
Plot 7-337. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB)



Plot 7-338. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 196 of 275

NR Band n66 ANT I



Plot 7-339. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB)

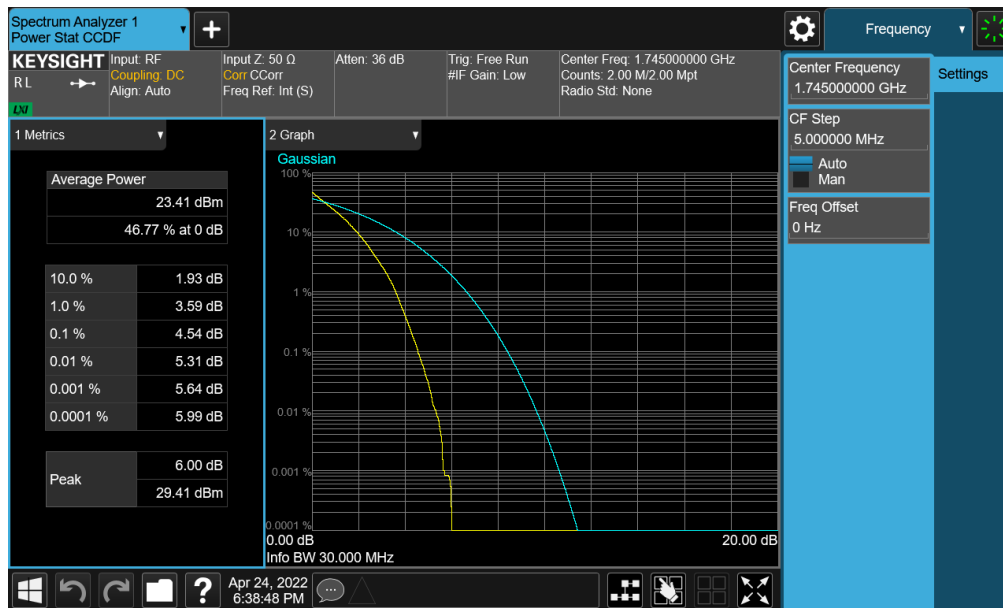


Plot 7-340. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 197 of 275



Plot 7-341. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM 256-QAM - Full RB)



Plot 7-342. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 198 of 275



Plot 7-343. PAR Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB)

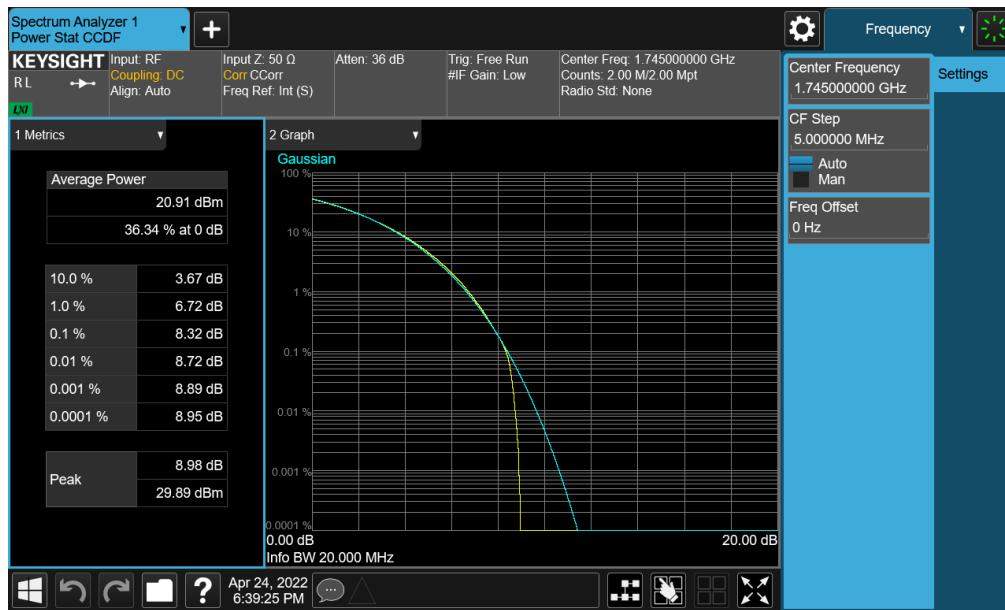


Plot 7-344. PAR Plot (NR Band n66 - 30.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 199 of 275



Plot 7-345. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB)

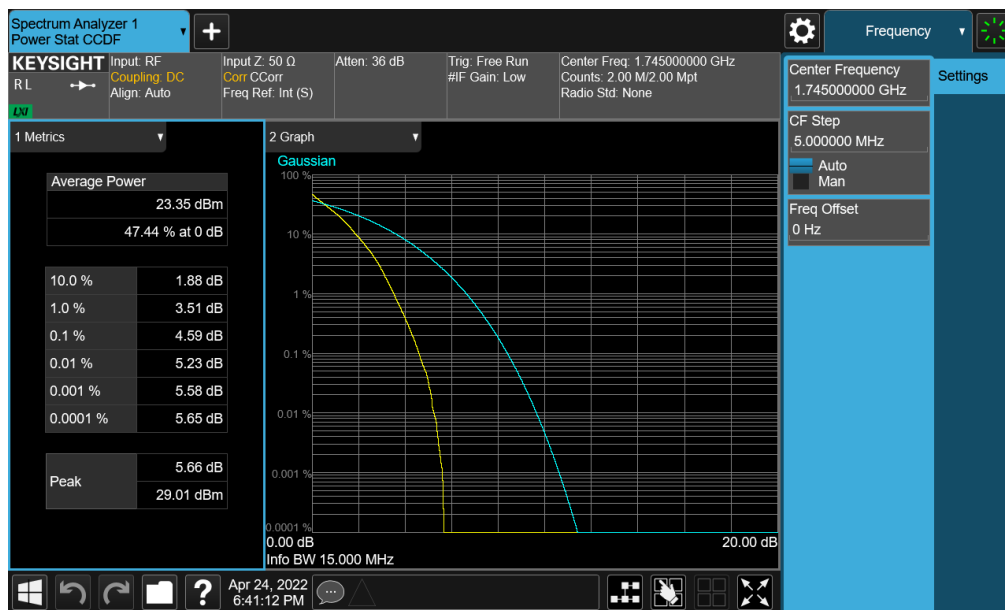


Plot 7-346. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 200 of 275



Plot 7-347. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB)



Plot 7-348. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 201 of 275



Plot 7-349. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB)

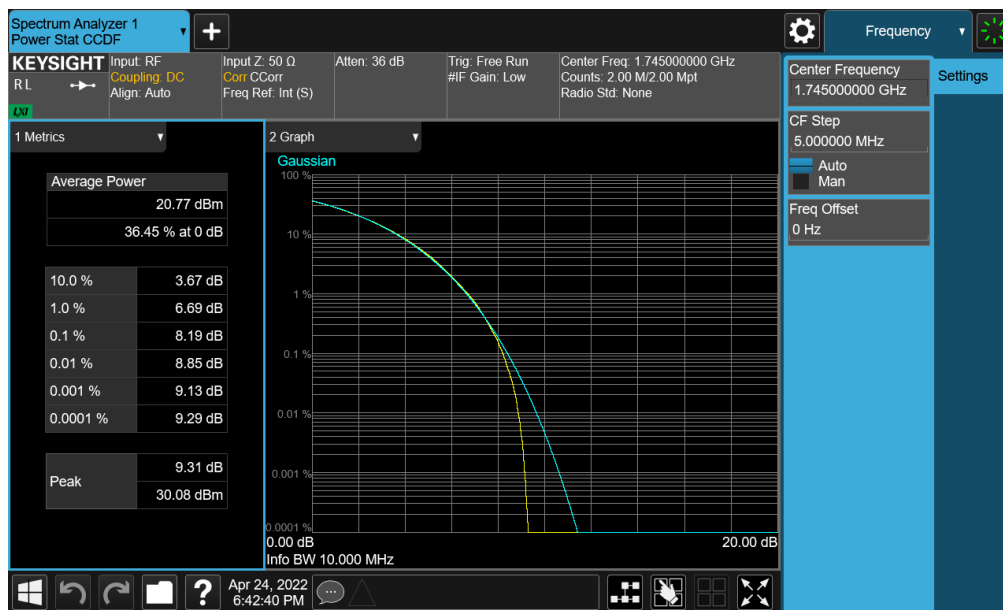


Plot 7-350. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 202 of 275



Plot 7-351. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB)

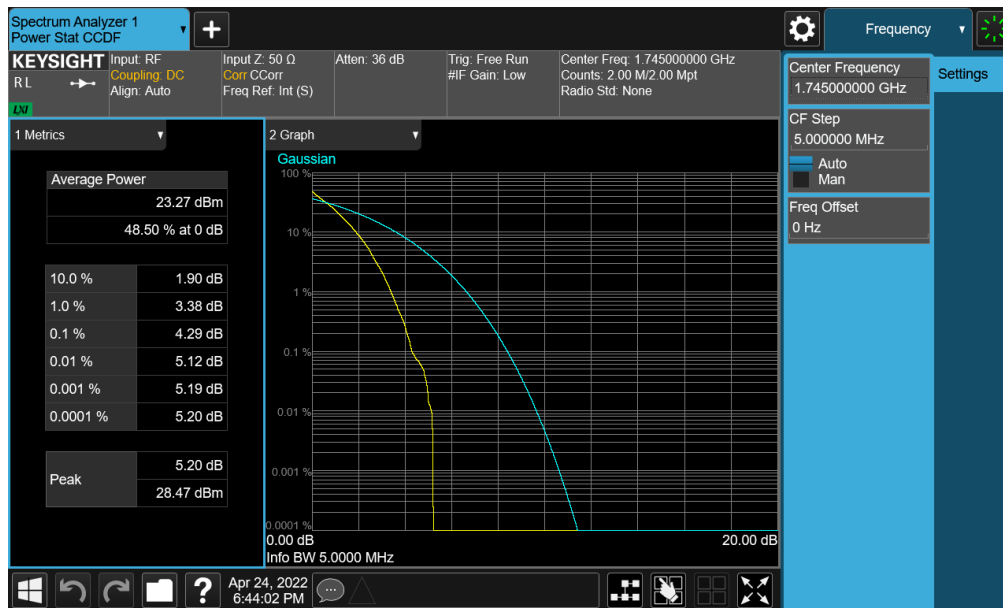


Plot 7-352. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 203 of 275



Plot 7-353. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM 256-QAM - Full RB)



Plot 7-354. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 204 of 275



FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 205 of 275

7.7 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 206 of 275

V3.0 1/5/2022

Test Setup

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

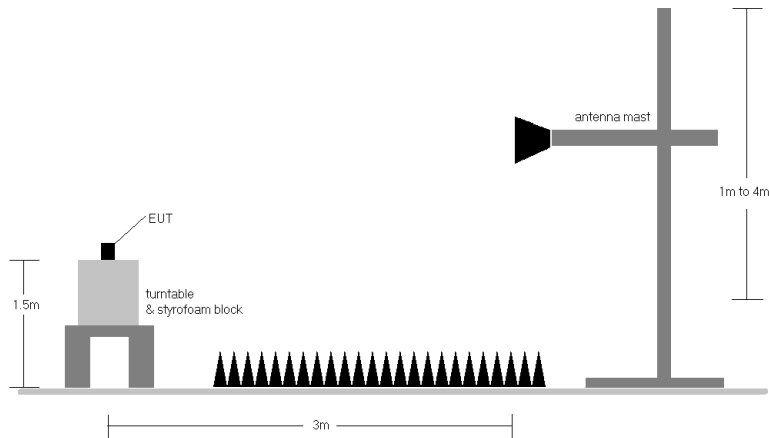


Figure 7-6. Radiated Test Setup <1GHz

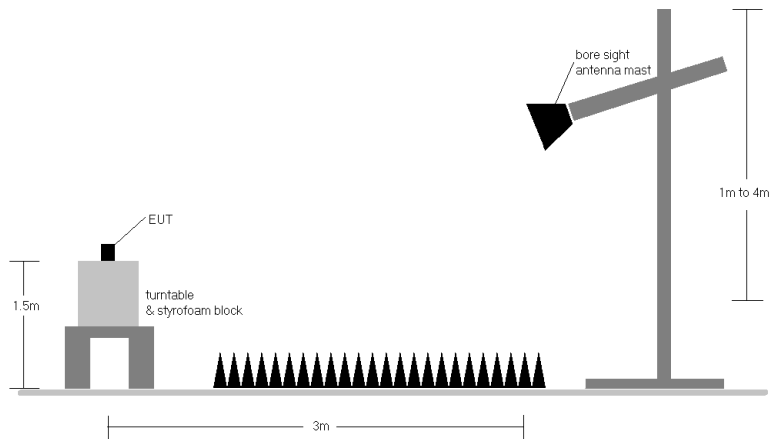


Figure 7-7. Radiated Test Setup >1GHz

Test Notes

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

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 207 of 275

V3.0 1/5/2022

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.0	V	179	180	2.89	1 / 99	16.46	19.35	0.086	36.99	-17.64	17.20	0.052	34.77	-17.57
	QPSK	680.5	V	176	184	3.09	1 / 99	16.59	19.68	0.093	36.99	-17.31	17.53	0.057	34.77	-17.25
	QPSK	688.0	V	177	181	3.28	1 / 50	16.68	19.96	0.099	36.99	-17.03	17.81	0.060	34.77	-16.96
	16-QAM	688.0	V	177	181	3.28	1 / 50	15.74	19.02	0.080	36.99	-17.97	16.87	0.049	34.77	-17.90
15 MHz	QPSK	670.5	V	179	180	2.76	1 / 37	16.59	19.35	0.086	36.99	-17.64	17.20	0.052	34.77	-17.57
	QPSK	680.5	V	176	184	3.09	1 / 37	16.58	19.66	0.093	36.99	-17.33	17.51	0.056	34.77	-17.26
	QPSK	690.5	V	177	181	3.31	1 / 74	16.71	20.03	0.101	36.99	-16.96	17.88	0.061	34.77	-16.89
	16-QAM	690.5	V	177	181	3.31	1 / 74	15.76	19.07	0.081	36.99	-17.92	16.92	0.049	34.77	-17.85
10 MHz	QPSK	668.0	V	179	180	2.72	1 / 0	16.63	19.36	0.086	36.99	-17.63	17.21	0.053	34.77	-17.56
	QPSK	680.5	V	176	184	3.09	1 / 49	16.64	19.72	0.094	36.99	-17.27	17.57	0.057	34.77	-17.20
	QPSK	693.0	V	177	181	3.44	1 / 25	16.63	20.07	0.102	36.99	-16.91	17.92	0.062	34.77	-16.85
	16-QAM	693.0	V	177	181	3.44	1 / 25	15.63	19.07	0.081	36.99	-17.92	16.92	0.049	34.77	-17.85
5 MHz	QPSK	665.5	V	179	180	2.59	1 / 24	16.80	19.39	0.087	36.99	-17.60	17.24	0.053	34.77	-17.53
	QPSK	680.5	V	176	184	3.09	1 / 24	16.69	19.77	0.095	36.99	-17.22	17.62	0.058	34.77	-17.15
	QPSK	695.5	V	177	181	3.48	1 / 24	16.61	20.09	0.102	36.99	-16.90	17.94	0.062	34.77	-16.83
	16-QAM	695.5	V	177	181	3.48	1 / 24	15.59	19.06	0.081	36.99	-17.93	16.91	0.049	34.77	-17.86
20 MHz	Opposite Pol.	688.0	H	142	278	3.08	1 / 50	16.75	19.83	0.096	36.99	-17.16	17.68	0.059	34.77	-17.09
	QPSK (Half Open)	688.0	H	134	243	3.08	1 / 50	15.98	19.06	0.081	36.99	-17.93	16.91	0.049	34.77	-17.86
	QPSK (WCP)	688.0	V	177	287	3.28	1 / 99	11.69	14.97	0.031	36.99	-22.02	12.82	0.019	34.77	-21.95

Table 7-11. ERP Data (LTE Band 71)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.0	V	175	326	3.58	1 / 0	16.61	20.19	0.104	36.99	-16.80	18.04	0.064	34.77	-16.73
	QPSK	707.5	V	175	324	3.62	1 / 0	16.25	19.87	0.097	36.99	-17.12	17.72	0.059	34.77	-17.05
	QPSK	711.0	V	102	208	3.67	1 / 49	15.95	19.62	0.092	36.99	-17.37	17.47	0.056	34.77	-17.30
	16-QAM	704.0	V	175	326	3.58	1 / 0	15.69	19.27	0.085	36.99	-17.72	17.12	0.052	34.77	-17.65
5 MHz	QPSK	701.5	V	175	326	3.55	1 / 12	16.70	20.25	0.106	36.99	-16.74	18.10	0.065	34.77	-16.67
	QPSK	707.5	V	175	324	3.62	1 / 24	16.25	19.87	0.097	36.99	-17.12	17.72	0.059	34.77	-17.05
	QPSK	713.5	V	102	208	3.80	1 / 12	15.79	19.58	0.091	36.99	-17.41	17.43	0.055	34.77	-17.34
	16-QAM	701.5	V	175	326	3.55	1 / 12	15.68	19.23	0.084	36.99	-17.76	17.08	0.051	34.77	-17.69
3 MHz	QPSK	700.5	V	175	326	3.54	1 / 7	16.73	20.27	0.106	36.99	-16.72	18.12	0.065	34.77	-16.65
	QPSK	707.5	V	175	324	3.62	1 / 7	16.29	19.91	0.098	36.99	-17.08	17.76	0.060	34.77	-17.01
	QPSK	714.5	V	102	208	3.81	1 / 0	15.73	19.54	0.090	36.99	-17.45	17.39	0.055	34.77	-17.38
	16-QAM	700.5	V	175	326	3.54	1 / 7	15.79	19.33	0.086	36.99	-17.66	17.18	0.052	34.77	-17.59
1.4 MHz	QPSK	699.7	V	175	326	3.53	1 / 5	16.73	20.25	0.106	36.99	-16.74	18.10	0.065	34.77	-16.67
	QPSK	707.5	V	175	324	3.62	1 / 3	16.31	19.93	0.099	36.99	-17.06	17.78	0.060	34.77	-16.99
	QPSK	715.3	V	102	208	3.85	1 / 5	15.75	19.60	0.091	36.99	-17.39	17.45	0.056	34.77	-17.32
	16-QAM	699.7	V	175	326	3.53	1 / 5	15.72	19.25	0.084	36.99	-17.74	17.10	0.051	34.77	-17.67
10 MHz	Opposite Pol.	704.0	H	148	281	3.48	1 / 0	15.84	19.32	0.086	36.99	-17.67	17.17	0.052	34.77	-17.60
	QPSK (Half Open)	704.0	H	153	176	3.48	1 / 0	13.68	17.16	0.052	36.99	-19.83	15.01	0.032	34.77	-19.76
	QPSK (WCP)	704.0	V	183	274	3.58	1 / 0	10.70	14.28	0.027	36.99	-22.71	12.13	0.016	34.77	-22.64

Table 7-12. ERP Data (LTE Band 12)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.0	V	157	261	5.99	1 / 49	15.08	21.07	0.128	36.99	-15.92	18.92	0.078	34.77	-15.85
	16-QAM	782.0	V	157	261	5.99	1 / 49	14.13	20.12	0.103	36.99	-16.87	17.97	0.063	34.77	-16.80
5 MHz	QPSK	779.5	V	157	261	5.97	1 / 12	15.13	21.10	0.129	36.99	-15.89	18.95	0.079	34.77	-15.82
	QPSK	782.0	V	157	261	5.99	1 / 12	15.05	21.05	0.127	36.99	-15.94	18.90	0.078	34.77	-15.87
	QPSK	784.5	V	157	261	6.07	1 / 12	15.04	21.11	0.129	36.99	-15.88	18.96	0.079	34.77	-15.81
	16-QAM	784.5	V	157	261	6.07	1 / 12	14.16	20.23	0.105	36.99	-16.76	18.08	0.064	34.77	-16.69
10 MHz	Opposite Pol.	782.0	H	245	289	6.09	1 / 49	13.66	19.75	0.094	36.99	-17.24	17.60	0.058	34.77	-17.17
	QPSK (Half Open)	782.0	H	102	270	6.09	1 / 49	10.77	16.86	0.049	36.99	-20.13	14.71	0.030	34.77	-20.06
	QPSK (WCP)	782.0	V	137	309	5.99	1 / 49	8.44	14.43	0.028	36.99	-22.56	12.28	0.017	34.77	-22.49

Table 7-13. ERP Data (LTE Band 13)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 208 of 275	

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	673.0	V	189	156	2.89	1/26	16.19	19.08	0.081	36.99	-17.91	16.93	0.049	34.77	-17.84
	$\pi/2$ BPSK	680.5	V	165	352	3.09	1/53	16.18	19.27	0.084	36.99	-17.72	17.12	0.051	34.77	-17.66
	$\pi/2$ BPSK	688.0	V	163	341	3.28	1/26	16.31	19.59	0.091	36.99	-17.40	17.44	0.055	34.77	-17.33
	QPSK	673.0	V	189	156	2.89	1/26	16.20	19.09	0.081	36.99	-17.90	16.94	0.049	34.77	-17.83
	QPSK	680.5	V	165	352	3.09	1/53	16.13	19.22	0.083	36.99	-17.77	17.07	0.051	34.77	-17.71
	QPSK	688.0	V	163	341	3.28	1/26	16.10	19.38	0.087	36.99	-17.61	17.23	0.053	34.77	-17.54
15 MHz	16-QAM	688.0	V	163	341	3.28	1/26	15.28	18.56	0.072	36.99	-18.43	16.41	0.044	34.77	-18.36
	$\pi/2$ BPSK	670.5	V	189	156	2.76	1/39	16.35	19.10	0.081	36.99	-17.89	16.95	0.050	34.77	-17.82
	$\pi/2$ BPSK	680.5	V	165	352	3.09	1/58	16.09	19.17	0.083	36.99	-17.82	17.02	0.050	34.77	-17.75
	$\pi/2$ BPSK	690.5	V	163	341	3.31	1/20	16.29	19.61	0.091	36.99	-17.38	17.46	0.056	34.77	-17.32
	QPSK	670.5	V	189	156	2.76	1/39	16.26	19.02	0.080	36.99	-17.97	16.87	0.049	34.77	-17.90
	QPSK	680.5	V	165	352	3.09	1/58	16.10	19.18	0.083	36.99	-17.80	17.03	0.051	34.77	-17.74
10 MHz	QPSK	690.5	V	163	341	3.31	1/20	16.02	19.33	0.086	36.99	-17.66	17.18	0.052	34.77	-17.59
	16-QAM	690.5	V	163	341	3.31	1/20	15.31	18.62	0.073	36.99	-18.37	16.47	0.044	34.77	-18.30
	$\pi/2$ BPSK	668.0	V	189	156	2.72	1/13	16.39	19.11	0.081	36.99	-17.88	16.96	0.050	34.77	-17.81
	$\pi/2$ BPSK	680.5	V	165	352	3.09	1/13	16.08	19.17	0.083	36.99	-17.82	17.02	0.050	34.77	-17.75
	$\pi/2$ BPSK	693.0	V	163	341	3.44	1/13	16.24	19.69	0.093	36.99	-17.30	17.54	0.057	34.77	-17.24
	QPSK	668.0	V	189	156	2.72	1/13	16.38	19.10	0.081	36.99	-17.89	16.95	0.050	34.77	-17.82
5 MHz	QPSK	680.5	V	165	352	3.09	1/13	15.93	19.02	0.080	36.99	-17.97	16.87	0.049	34.77	-17.90
	QPSK	693.0	V	163	341	3.44	1/13	15.89	19.33	0.086	36.99	-17.66	17.18	0.052	34.77	-17.59
	16-QAM	693.0	V	163	341	3.44	1/13	15.25	18.69	0.074	36.99	-18.30	16.54	0.045	34.77	-18.23
	$\pi/2$ BPSK	665.5	V	189	156	2.59	1/12	16.56	19.15	0.082	36.99	-17.84	17.00	0.050	34.77	-17.77
	$\pi/2$ BPSK	680.5	V	165	352	3.09	1/12	16.24	19.33	0.086	36.99	-17.66	17.18	0.052	34.77	-17.59
	$\pi/2$ BPSK	695.5	V	163	341	3.48	1/12	16.14	19.61	0.091	36.99	-17.38	17.46	0.056	34.77	-17.31
20 MHz	QPSK	665.5	V	189	156	2.59	1/12	16.50	19.09	0.081	36.99	-17.90	16.94	0.049	34.77	-17.83
	QPSK	680.5	V	165	352	3.09	1/12	16.09	19.18	0.083	36.99	-17.81	17.03	0.050	34.77	-17.74
	QPSK	695.5	V	163	341	3.48	1/12	15.97	19.44	0.088	36.99	-17.55	17.29	0.054	34.77	-17.48
	16-QAM	695.5	V	163	341	3.48	1/12	15.32	18.79	0.076	36.99	-18.20	16.64	0.046	34.77	-18.13
	QPSK (CP-OFDM)	688.0	V	163	341	3.28	1/26	14.71	17.99	0.063	36.99	-19.00	15.84	0.038	34.77	-18.93
	QPSK (Half Open)	688.0	H	300	307	3.08	1/26	15.35	18.43	0.070	36.99	-18.56	16.28	0.042	34.77	-18.49
20 MHz	QPSK (Opposite Pol.)	688.0	H	143	278	3.08	1/53	16.40	19.48	0.089	36.99	-17.51	17.33	0.054	34.77	-17.44
	QPSK (WCP)	688.0	V	159	135	3.28	1/26	10.83	14.11	0.026	36.99	-22.88	11.96	0.016	34.77	-22.81

Table 7-14. ERP Data (NR Band n71)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
15 MHz	$\pi/2$ BPSK	706.5	V	153	226	3.61	1/58	16.20	19.81	0.096	36.99	-17.18	17.66	0.058	34.77	-17.11
	$\pi/2$ BPSK	707.5	V	143	194	3.62	1/58	15.83	19.45	0.088	36.99	-17.54	17.30	0.054	34.77	-17.47
	$\pi/2$ BPSK	708.5	V	153	146	3.64	1/58	15.89	19.53	0.090	36.99	-17.46	17.38	0.055	34.77	-17.40
	QPSK	706.5	V	153	226	3.61	1/58	16.23	19.84	0.096	36.99	-17.15	17.69	0.059	34.77	-17.08
	QPSK	707.5	V	143	194	3.62	1/58	15.83	19.45	0.088	36.99	-17.54	17.30	0.054	34.77	-17.47
	QPSK	708.5	V	153	146	3.64	1/58	15.86	19.50	0.089	36.99	-17.49	17.35	0.054	34.77	-17.43
10 MHz	16-QAM	706.5	V	153	226	3.61	1/58	15.29	18.90	0.078	36.99	-18.09	16.75	0.047	34.77	-18.02
	$\pi/2$ BPSK	704.0	V	153	226	3.58	1/13	16.26	19.84	0.096	36.99	-17.15	17.69	0.059	34.77	-17.08
	$\pi/2$ BPSK	707.5	V	143	194	3.62	1/26	15.69	19.32	0.085	36.99	-17.67	17.17	0.052	34.77	-17.60
	$\pi/2$ BPSK	711.0	V	153	146	3.67	1/13	15.84	19.51	0.089	36.99	-17.48	17.36	0.054	34.77	-17.41
	QPSK	704.0	V	153	226	3.58	1/13	16.25	19.83	0.096	36.99	-17.16	17.68	0.059	34.77	-17.09
	QPSK	707.5	V	143	194	3.62	1/26	15.89	19.51	0.089	36.99	-17.48	17.36	0.054	34.77	-17.41
5 MHz	QPSK	711.0	V	153	146	3.67	1/13	15.91	19.57	0.091	36.99	-17.42	17.42	0.055	34.77	-17.35
	16-QAM	704.0	V	153	226	3.58	1/13	15.33	18.92	0.078	36.99	-18.07	16.77	0.047	34.77	-18.01
	$\pi/2$ BPSK	701.5	V	153	226	3.55	1/12	16.24	19.79	0.095	36.99	-17.20	17.64	0.058	34.77	-17.13
	$\pi/2$ BPSK	707.5	V	143	194	3.62	1/6	15.91	19.53	0.090	36.99	-17.46	17.38	0.055	34.77	-17.39
	$\pi/2$ BPSK	713.5	V	153	146	3.80	1/12	15.68	19.48	0.089	36.99	-17.51	17.33	0.054	34.77	-17.44
	QPSK	701.5	V	153	226	3.55	1/12	16.30	19.85	0.097	36.99	-17.14	17.70	0.059	34.77	-17.07
15 MHz	QPSK	707.5	V	143	194	3.62	1/6	15.82	19.44	0.088	36.99	-17.55	17.29	0.054	34.77	-17.48
	QPSK	713.5	V	153	146	3.80	1/12	15.62	19.41	0.087	36.99	-17.58	17.26	0.053	34.77	-17.51
	16-QAM	713.5	V	153	146	3.80	1/12	15.00	18.80	0.076	36.99	-18.19	16.65	0.046	34.77	-18.13
	QPSK (CP-OFDM)	706.5	V	153	226	3.61	1/58	14.14	17.75	0.060	36.99	-19.24	15.60	0.036	34.77	-19.17
	QPSK (Half Open)	706.5	H	254	215	3.51	1/58	16.25	19.76	0.095	36.99	-17.23	17.61	0.058	34.77	-17.16
	QPSK (Opposite Pol.)	706.5	H	283	263	3.51	1/20	15.83	19.34	0.086	36.99	-17.65	17.19	0.052	34.77	-17.58
15 MHz	QPSK (WCP)	706.5	V	159	199	3.61	1/39	7.92	11.53	0.014	36.99	-25.46	9.38	0.009	34.77	-25.39

Table 7-15. ERP Data (NR Band n12)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	V	105	322	9.28	9.47	18.75	0.075	30.00	-11.25
1732.60	WCDMA1700	V	134	319	14.31	9.15	23.46	0.222	30.00	-6.54
1752.60	WCDMA1700	V	126	329	14.06	9.05	23.11	0.204	30.00	-6.89
1732.60	WCDMA1700	H	132	197	9.44	9.46	18.90	0.078	30.00	-11.10
1732.60	WCDMA1700 (Closed)	V	153	93	6.67	9.15	15.82	0.038	30.00	-14.18
1732.60	WCDMA1700 (WCP)	V	183	286	8.91	9.15	18.06	0.064	30.00	-11.94

Table 7-16. EIRP Data (WCDMA AWS)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 209 of 275

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	H	215	194	9.47	1 / 50	14.66	24.13	0.259	30.00	-5.87
	QPSK	1745.0	H	212	187	9.48	1 / 99	13.93	23.41	0.219	30.00	-6.59
	QPSK	1770.0	H	167	186	9.39	1 / 50	14.10	23.49	0.223	30.00	-6.51
	16-QAM	1720.0	H	215	194	9.47	1 / 50	13.85	23.32	0.215	30.00	-6.68
15 MHz	QPSK	1717.5	H	215	194	9.49	1 / 37	14.61	24.10	0.257	30.00	-5.90
	QPSK	1745.0	H	212	187	9.48	1 / 37	13.69	23.17	0.207	30.00	-6.83
	QPSK	1772.5	H	167	186	9.36	1 / 37	14.27	23.63	0.231	30.00	-6.37
	16-QAM	1717.5	H	215	194	9.49	1 / 37	14.07	23.56	0.227	30.00	-6.44
10 MHz	QPSK	1715.0	H	215	194	9.52	1 / 25	14.71	24.23	0.265	30.00	-5.77
	QPSK	1745.0	H	212	187	9.48	1 / 25	13.75	23.23	0.210	30.00	-6.77
	QPSK	1775.0	H	167	186	9.34	1 / 25	14.17	23.50	0.224	30.00	-6.50
	16-QAM	1715.0	H	215	194	9.52	1 / 25	14.00	23.51	0.225	30.00	-6.49
5 MHz	QPSK	1712.5	H	215	194	9.54	1 / 12	14.75	24.29	0.269	30.00	-5.71
	QPSK	1745.0	H	212	187	9.48	1 / 24	13.87	23.35	0.216	30.00	-6.65
	QPSK	1777.5	H	167	186	9.31	1 / 12	14.35	23.66	0.232	30.00	-6.34
	16-QAM	1712.5	H	215	194	9.54	1 / 12	14.11	23.65	0.232	30.00	-6.35
3 MHz	QPSK	1711.5	H	215	194	9.55	1 / 7	14.73	24.28	0.268	30.00	-5.72
	QPSK	1745.0	H	212	187	9.48	1 / 7	13.74	23.22	0.210	30.00	-6.78
	QPSK	1778.5	H	167	186	9.30	1 / 7	14.31	23.61	0.230	30.00	-6.39
	16-QAM	1711.5	H	215	194	9.55	1 / 7	14.14	23.70	0.234	30.00	-6.30
1.4 MHz	QPSK	1710.7	H	215	194	9.56	1 / 3	14.79	24.35	0.273	30.00	-5.65
	QPSK	1745.0	H	212	187	9.48	1 / 3	13.80	23.28	0.213	30.00	-6.72
	QPSK	1779.3	H	167	186	9.29	1 / 3	14.44	23.73	0.236	30.00	-6.27
	16-QAM	1710.7	H	215	194	9.56	1 / 3	14.03	23.59	0.228	30.00	-6.41
20 MHz	Opposite Pol.	1720.0	V	135	330	9.33	1 / 50	13.58	22.91	0.195	30.00	-7.09
	QPSK (Closed)	1745.0	V	103	183	9.33	1 / 99	9.66	18.99	0.079	30.00	-11.01
	QPSK (WCP)	1720.0	H	127	180	9.47	1 / 0	12.63	22.10	0.162	30.00	-7.90

Table 7-17. EIRP Data (LTE Band 66/4)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 210 of 275

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	$\pi/2$ BPSK	1730.0	H	123	178	9.48	1 / 161	13.26	22.74	0.188	30.00	-7.26
	$\pi/2$ BPSK	1745.0	H	179	176	9.48	1 / 54	13.14	22.62	0.183	30.00	-7.38
	$\pi/2$ BPSK	1760.0	H	120	175	9.44	1 / 108	12.15	21.59	0.144	30.00	-8.41
	QPSK	1730.0	H	123	178	9.48	1 / 161	13.29	22.77	0.189	30.00	-7.23
	QPSK	1745.0	H	179	176	9.48	1 / 54	12.97	22.45	0.176	30.00	-7.55
	QPSK	1760.0	H	120	175	9.44	1 / 108	11.95	21.39	0.138	30.00	-8.61
30 MHz	16-QAM	1730.0	H	123	178	9.48	1 / 161	12.44	21.92	0.156	30.00	-8.08
	$\pi/2$ BPSK	1725.0	H	123	178	9.48	1 / 80	14.00	23.48	0.223	30.00	-6.52
	$\pi/2$ BPSK	1745.0	H	179	176	9.48	1 / 119	13.71	23.19	0.209	30.00	-6.81
	$\pi/2$ BPSK	1765.0	H	120	175	9.42	1 / 40	12.70	22.11	0.163	30.00	-7.89
	QPSK	1725.0	H	123	178	9.48	1 / 80	13.77	23.24	0.211	30.00	-6.76
	QPSK	1745.0	H	179	176	9.48	1 / 119	13.29	22.77	0.189	30.00	-7.23
20 MHz	QPSK	1765.0	H	120	175	9.42	1 / 40	12.45	21.86	0.154	30.00	-8.14
	16-QAM	1725.0	H	123	178	9.48	1 / 80	13.15	22.63	0.183	30.00	-7.37
	$\pi/2$ BPSK	1720.0	H	123	178	9.47	1 / 79	13.80	23.27	0.212	30.00	-6.73
	$\pi/2$ BPSK	1745.0	H	179	176	9.48	1 / 53	13.37	22.85	0.193	30.00	-7.15
	$\pi/2$ BPSK	1770.0	H	120	175	9.39	1 / 79	12.56	21.95	0.157	30.00	-8.05
	QPSK	1720.0	H	123	178	9.47	1 / 79	13.60	23.07	0.203	30.00	-6.93
15 MHz	QPSK	1745.0	H	179	176	9.48	1 / 53	12.97	22.45	0.176	30.00	-7.55
	QPSK	1770.0	H	120	175	9.39	1 / 79	12.38	21.77	0.150	30.00	-8.23
	16-QAM	1720.0	H	123	178	9.47	1 / 79	13.10	22.57	0.181	30.00	-7.43
	$\pi/2$ BPSK	1717.5	H	123	178	9.49	1 / 58	13.91	23.40	0.219	30.00	-6.60
	$\pi/2$ BPSK	1745.0	H	179	176	9.48	1 / 58	13.37	22.85	0.193	30.00	-7.15
	$\pi/2$ BPSK	1772.5	H	120	175	9.36	1 / 58	12.61	21.97	0.158	30.00	-8.03
10 MHz	QPSK	1717.5	H	123	178	9.49	1 / 58	13.75	23.24	0.211	30.00	-6.76
	QPSK	1745.0	H	179	176	9.48	1 / 58	12.73	22.21	0.166	30.00	-7.79
	QPSK	1772.5	H	120	175	9.36	1 / 58	12.44	21.80	0.152	30.00	-8.20
	16-QAM	1717.5	H	123	178	9.49	1 / 58	13.00	22.50	0.178	30.00	-7.50
	$\pi/2$ BPSK	1715.0	H	123	178	9.52	1 / 13	13.69	23.21	0.209	30.00	-6.79
	$\pi/2$ BPSK	1745.0	H	179	176	9.48	1 / 38	13.29	22.77	0.189	30.00	-7.23
5 MHz	$\pi/2$ BPSK	1775.0	H	120	175	9.34	1 / 38	12.36	21.70	0.148	30.00	-8.30
	QPSK	1715.0	H	123	178	9.52	1 / 13	13.30	22.82	0.191	30.00	-7.18
	QPSK	1745.0	H	179	176	9.48	1 / 38	13.20	22.69	0.186	30.00	-7.31
	QPSK	1775.0	H	120	175	9.34	1 / 38	12.14	21.47	0.140	30.00	-8.53
	16-QAM	1715.0	H	123	178	9.52	1 / 13	12.96	22.48	0.177	30.00	-7.52
	$\pi/2$ BPSK	1712.5	H	123	178	9.54	1 / 18	13.38	22.92	0.196	30.00	-7.08
40 MHz	$\pi/2$ BPSK	1745.0	H	179	176	9.48	1 / 18	13.22	22.70	0.186	30.00	-7.30
	$\pi/2$ BPSK	1777.5	H	120	175	9.31	1 / 12	12.29	21.60	0.145	30.00	-8.40
	QPSK	1712.5	H	123	178	9.54	1 / 18	13.24	22.79	0.190	30.00	-7.21
	QPSK	1745.0	H	179	176	9.48	1 / 18	12.93	22.41	0.174	30.00	-7.59
	QPSK	1777.5	H	120	175	9.31	1 / 12	12.02	21.33	0.136	30.00	-8.67
	16-QAM	1712.5	H	123	178	9.54	1 / 18	12.83	22.37	0.173	30.00	-7.63
40 MHz	QPSK (CP-OFDM)	1730.0	H	133	178	9.48	1 / 54	11.86	21.34	0.136	30.00	-8.66
	QPSK (Closed)	1730.0	V	137	196	9.20	1 / 54	9.59	18.79	0.076	30.00	-11.21
	QPSK (Opposite Pol.)	1730.0	V	146	323	9.20	1 / 54	13.26	22.46	0.176	30.00	-7.54
	QPSK (WCP)	1730.0	H	149	307	9.48	1 / 54	7.77	17.25	0.053	30.00	-12.75

Table 7-18. EIRP Data (NR Band n66) – ANT A

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 211 of 275

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	$\pi/2$ BPSK	1730.0	H	137	256	9.48	1 / 108	5.93	15.41	0.035	30.00	-14.59
	$\pi/2$ BPSK	1745.0	H	140	259	9.48	1 / 54	5.70	15.18	0.033	30.00	-14.82
	$\pi/2$ BPSK	1760.0	H	136	252	9.44	1 / 108	4.87	14.31	0.027	30.00	-15.69
	QPSK	1730.0	H	137	256	9.48	1 / 54	6.06	15.54	0.036	30.00	-14.46
	QPSK	1745.0	H	140	259	9.48	1 / 54	5.78	15.26	0.034	30.00	-14.74
	QPSK	1760.0	H	136	252	9.44	1 / 54	4.88	14.32	0.027	30.00	-15.68
30 MHz	16-QAM	1730.0	H	137	256	9.48	1 / 108	5.81	15.29	0.034	30.00	-14.71
	$\pi/2$ BPSK	1725.0	H	137	256	9.48	1 / 119	5.98	15.46	0.035	30.00	-14.54
	$\pi/2$ BPSK	1745.0	H	140	259	9.48	1 / 80	5.49	14.97	0.031	30.00	-15.03
	$\pi/2$ BPSK	1765.0	H	136	252	9.42	1 / 80	4.88	14.30	0.027	30.00	-15.70
	QPSK	1725.0	H	137	256	9.48	1 / 119	6.11	15.59	0.036	30.00	-14.41
	QPSK	1745.0	H	140	259	9.48	1 / 80	5.82	15.30	0.034	30.00	-14.70
20 MHz	QPSK	1765.0	H	136	252	9.42	1 / 80	4.90	14.31	0.027	30.00	-15.69
	16-QAM	1725.0	H	137	256	9.48	1 / 119	5.76	15.23	0.033	30.00	-14.77
	$\pi/2$ BPSK	1720.0	H	137	256	9.47	1 / 79	6.02	15.49	0.035	30.00	-14.51
	$\pi/2$ BPSK	1745.0	H	140	259	9.48	1 / 79	5.44	14.92	0.031	30.00	-15.08
	$\pi/2$ BPSK	1770.0	H	136	252	9.39	1 / 26	4.86	14.25	0.027	30.00	-15.75
	QPSK	1720.0	H	137	256	9.47	1 / 79	6.15	15.62	0.036	30.00	-14.38
15 MHz	QPSK	1745.0	H	140	259	9.48	1 / 79	5.79	15.27	0.034	30.00	-14.73
	QPSK	1770.0	H	136	252	9.39	1 / 26	4.82	14.21	0.026	30.00	-15.79
	16-QAM	1720.0	H	137	256	9.47	1 / 79	5.68	15.15	0.033	30.00	-14.85
	$\pi/2$ BPSK	1717.5	H	137	256	9.49	1 / 58	5.96	15.45	0.035	30.00	-14.55
	$\pi/2$ BPSK	1745.0	H	140	259	9.48	1 / 58	5.51	15.00	0.032	30.00	-15.00
	$\pi/2$ BPSK	1772.5	H	136	252	9.36	1 / 20	5.03	14.39	0.027	30.00	-15.61
10 MHz	QPSK	1717.5	H	137	256	9.49	1 / 58	6.03	15.53	0.036	30.00	-14.47
	QPSK	1745.0	H	140	259	9.48	1 / 58	5.93	15.41	0.035	30.00	-14.59
	QPSK	1772.5	H	136	252	9.36	1 / 20	4.90	14.26	0.027	30.00	-15.74
	16-QAM	1717.5	H	137	256	9.49	1 / 58	5.53	15.03	0.032	30.00	-14.97
	$\pi/2$ BPSK	1715.0	H	137	256	9.52	1 / 26	5.76	15.28	0.034	30.00	-14.72
	$\pi/2$ BPSK	1745.0	H	140	259	9.48	1 / 13	5.42	14.90	0.031	30.00	-15.10
5 MHz	$\pi/2$ BPSK	1775.0	H	136	252	9.34	1 / 13	4.79	14.13	0.026	30.00	-15.87
	QPSK	1715.0	H	137	256	9.52	1 / 26	5.94	15.45	0.035	30.00	-14.55
	QPSK	1745.0	H	140	259	9.48	1 / 13	5.60	15.08	0.032	30.00	-14.92
	QPSK	1775.0	H	136	252	9.34	1 / 13	4.83	14.16	0.026	30.00	-15.84
	16-QAM	1715.0	H	137	256	9.52	1 / 26	5.31	14.83	0.030	30.00	-15.17
	$\pi/2$ BPSK	1712.5	H	137	256	9.54	1 / 18	5.77	15.31	0.034	30.00	-14.69
40 MHz	$\pi/2$ BPSK	1745.0	H	140	259	9.48	1 / 6	5.33	14.81	0.030	30.00	-15.19
	$\pi/2$ BPSK	1777.5	H	136	252	9.31	1 / 18	4.78	14.10	0.026	30.00	-15.90
	QPSK	1712.5	H	137	256	9.54	1 / 18	5.94	15.48	0.035	30.00	-14.52
	QPSK	1745.0	H	140	259	9.48	1 / 6	5.57	15.05	0.032	30.00	-14.95
	QPSK	1777.5	H	136	252	9.31	1 / 18	4.74	14.05	0.025	30.00	-15.95
	16-QAM	1712.5	H	137	256	9.54	1 / 18	5.38	14.93	0.031	30.00	-15.07
40 MHz	QPSK (CP-OFDM)	1730.0	H	140	260	9.48	1 / 108	4.66	14.14	0.026	30.00	-15.86
	QPSK (Closed)	1730.0	H	185	188	9.48	1 / 54	3.81	13.29	0.021	30.00	-16.71
	QPSK (Opposite Pol.)	1730.0	V	218	280	9.20	1 / 108	2.89	12.09	0.016	30.00	-17.91
	QPSK (WCP)	1730.0	H	248	341	9.48	1 / 108	3.82	13.30	0.021	30.00	-16.70

Table 7-19. EIRP Data (NR Band n66) – ANT I

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 212 of 275

7.8 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

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

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 213 of 275

V3.0 1/5/2022

Test Setup

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

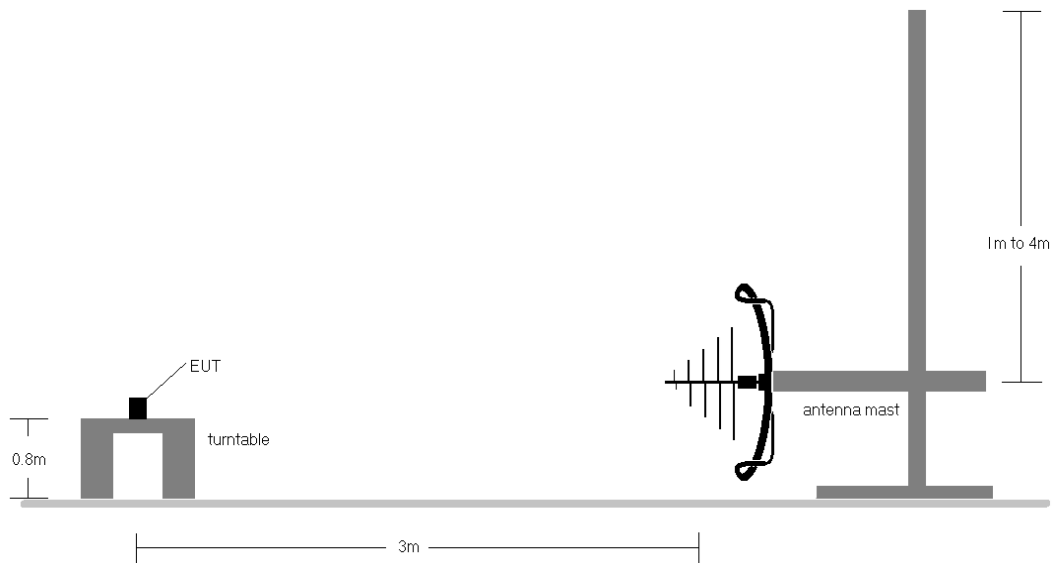


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

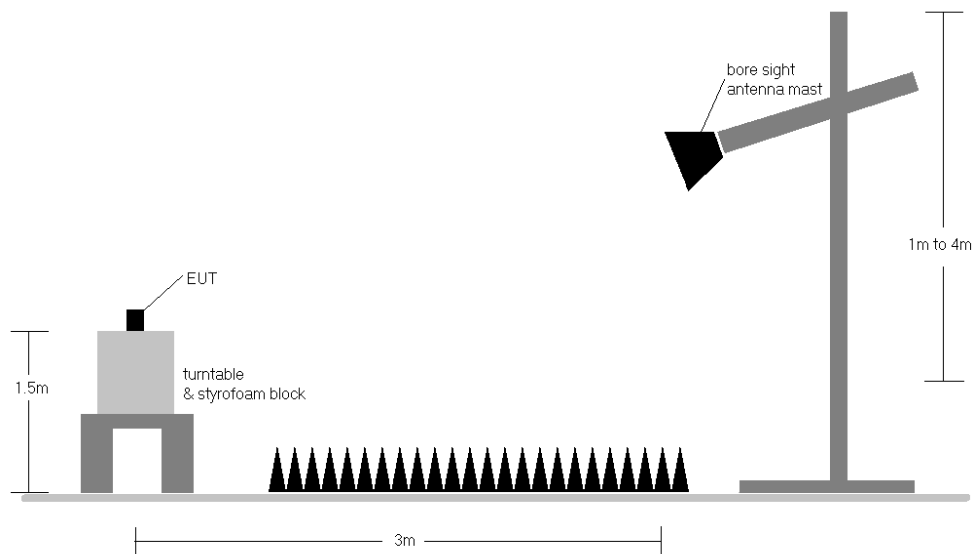


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 214 of 275

V3.0 1/5/2022

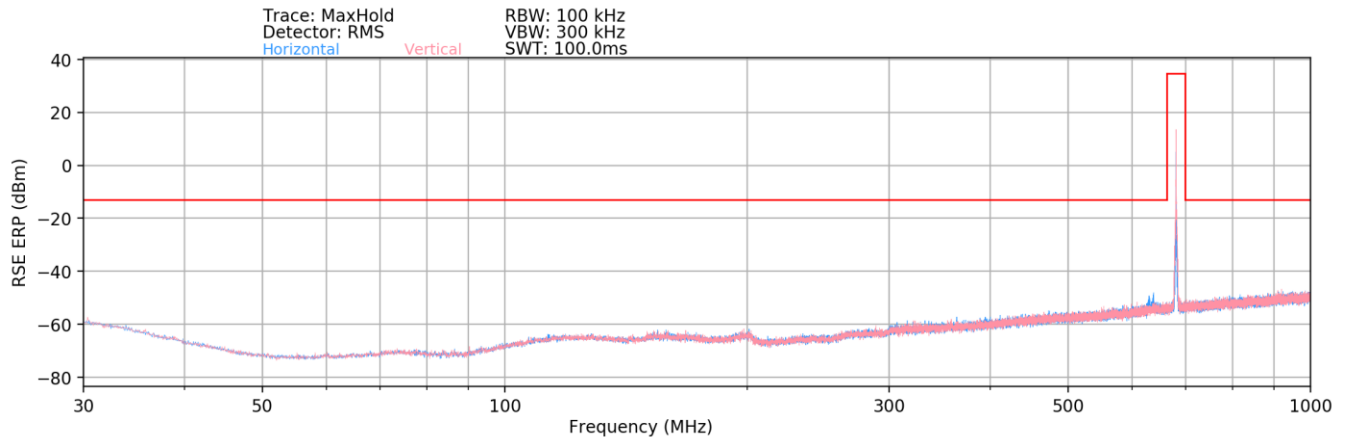
Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 8) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 9) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 215 of 275

V3.0 1/5/2022

LTE Band 71



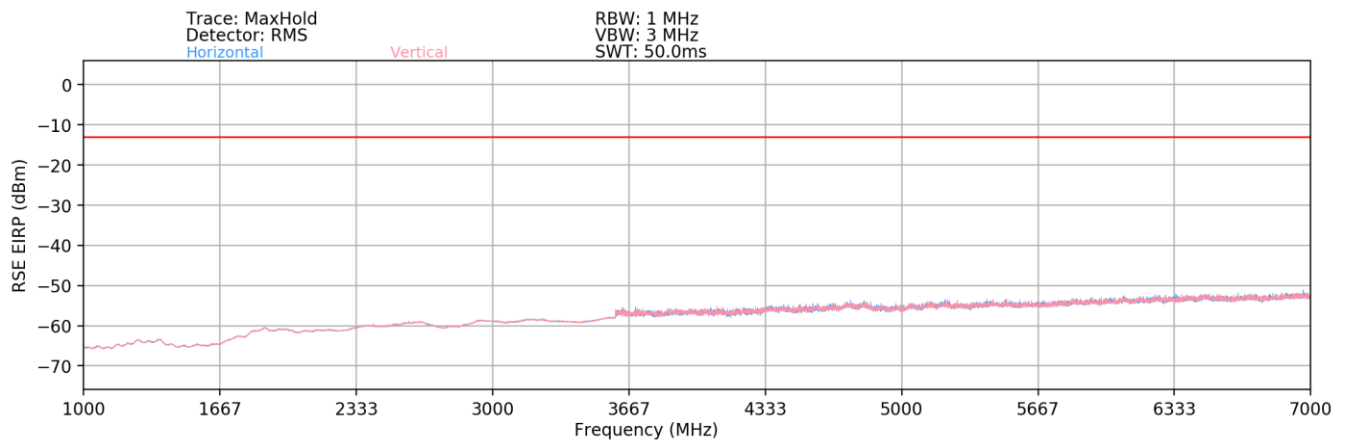
Plot 7-357. Radiated Spurious Plot 30MHz – 1GHz (LTE Band 71) – Open

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

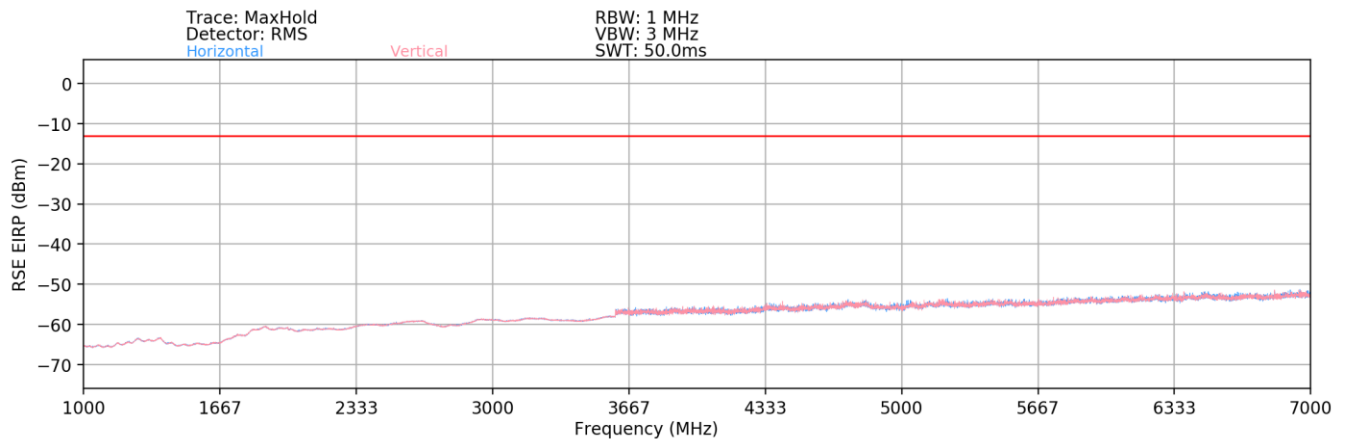
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
34.00	H	-	-	-90.53	23.77	40.24	-57.17	-13.00	-44.17
119.00	H	-	-	-90.26	20.59	37.33	-60.08	-13.00	-47.08
366.00	H	-	-	-90.35	22.55	39.20	-58.21	-13.00	-45.21

Table 7-20. Radiated Spurious Data 30MHz – 1GHz (LTE Band 71) – Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 216 of 275



Plot 7-358. Radiated Spurious Plot (LTE Band 71) – Open



Plot 7-359. Radiated Spurious Plot (LTE Band 71) – Closed

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]
1346.00	H	-	-	-77.26	-2.80	26.94	-68.31	-13.00	-55.31
2019.00	H	299	68	-74.91	-0.39	31.70	-63.55	-13.00	-50.55
2692.00	H	-	-	-77.24	1.26	31.02	-64.24	-13.00	-51.24
3365.00	H	-	-	-77.20	1.87	31.67	-63.59	-13.00	-50.59

Table 7-21. Radiated Spurious Data (LTE Band 71 – Low Channel) – Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 217 of 275

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]
1361.00	H	-	-	-76.44	-2.59	27.97	-67.29	-13.00	-54.29
2041.50	H	400	70	-75.29	-0.57	31.14	-64.12	-13.00	-51.12
2722.00	H	-	-	-76.80	0.72	30.92	-64.34	-13.00	-51.34
3402.50	H	-	-	-76.92	1.70	31.78	-63.48	-13.00	-50.48

Table 7-22. Radiated Spurious Data (LTE Band 71 – Mid Channel) – Open

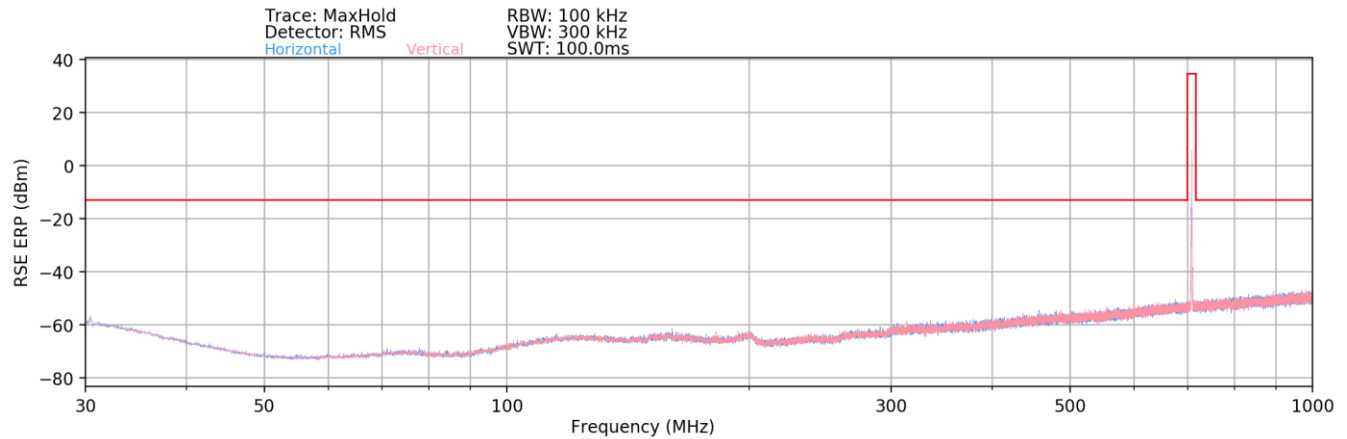
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

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]
1376.00	H	325	229	-75.68	-2.79	28.53	-66.72	-13.00	-53.72
2064.00	H	400	67	-74.70	-0.52	31.78	-63.48	-13.00	-50.48
2752.00	H	-	-	-77.11	0.49	30.38	-64.87	-13.00	-51.87
3440.00	H	-	-	-77.12	1.67	31.55	-63.70	-13.00	-50.70

Table 7-23. Radiated Spurious Data (LTE Band 71 – High Channel) – Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 218 of 275

LTE Band 12



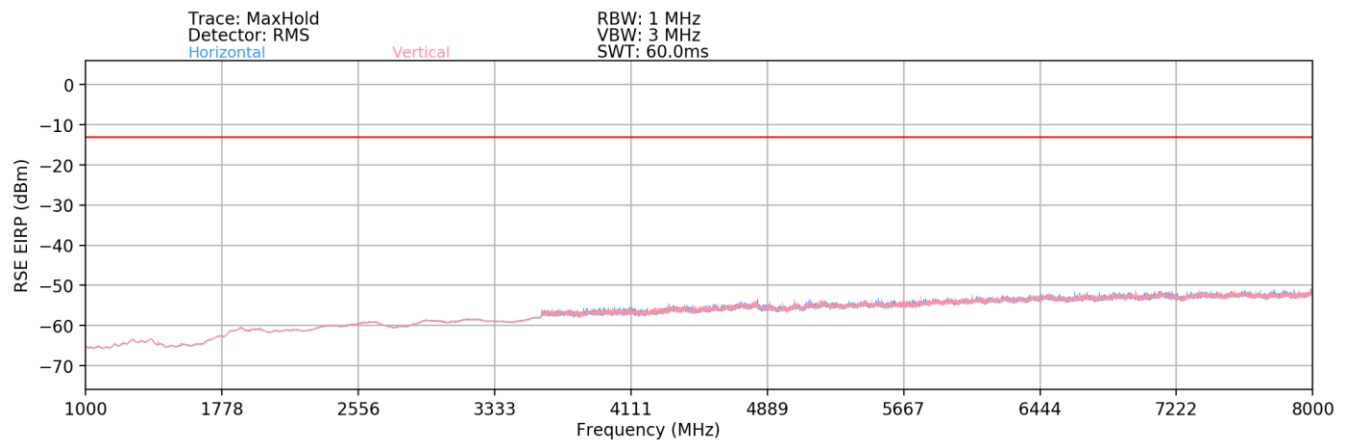
Plot 7-360. Radiated Spurious Plot 30MHz – 1GHz (LTE Band 12) – Closed

Bandwidth (MHz):	10
Frequency (MHz):	704
RB / Offset:	1/25

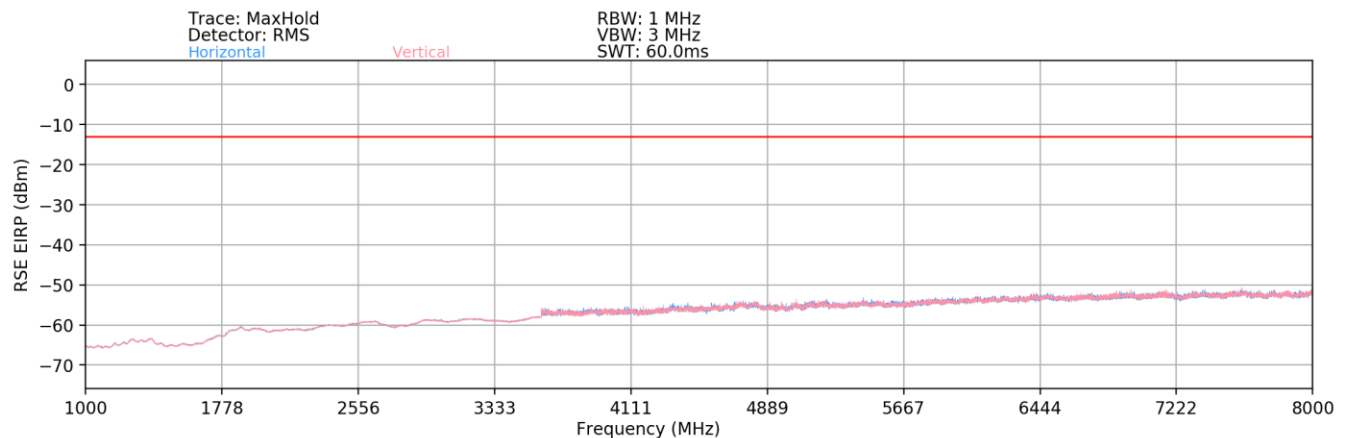
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
86.00	V	-	-	-90.37	14.39	31.02	-66.39	-13.00	-53.39
171.00	V	-	-	-90.26	19.35	36.09	-61.32	-13.00	-48.32
461.00	V	-	-	-89.77	25.08	42.31	-55.10	-13.00	-42.10

Table 7-24. Radiated Spurious Data 30MHz – 1GHz (LTE Band 12) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 219 of 275



Plot 7-361. Radiated Spurious Plot (LTE Band 12) – Closed



Plot 7-362. Radiated Spurious Plot (LTE Band 12) – Open

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	264	172	-72.54	-3.69	30.77	-64.49	-13.00	-51.49
2112.00	V	-	-	-77.42	-0.26	29.32	-65.94	-13.00	-52.94
2816.00	V	-	-	-77.27	0.80	30.53	-64.73	-13.00	-51.73

Table 7-25. Radiated Spurious Data (LTE Band 12 – Low Channel) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 220 of 275

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	171	150	-74.64	-3.79	28.57	-66.69	-13.00	-53.69
2122.50	V	-	-	-77.33	-0.25	29.42	-65.83	-13.00	-52.83
2830.00	V	-	-	-77.46	0.83	30.37	-64.89	-13.00	-51.89

Table 7-26. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Closed

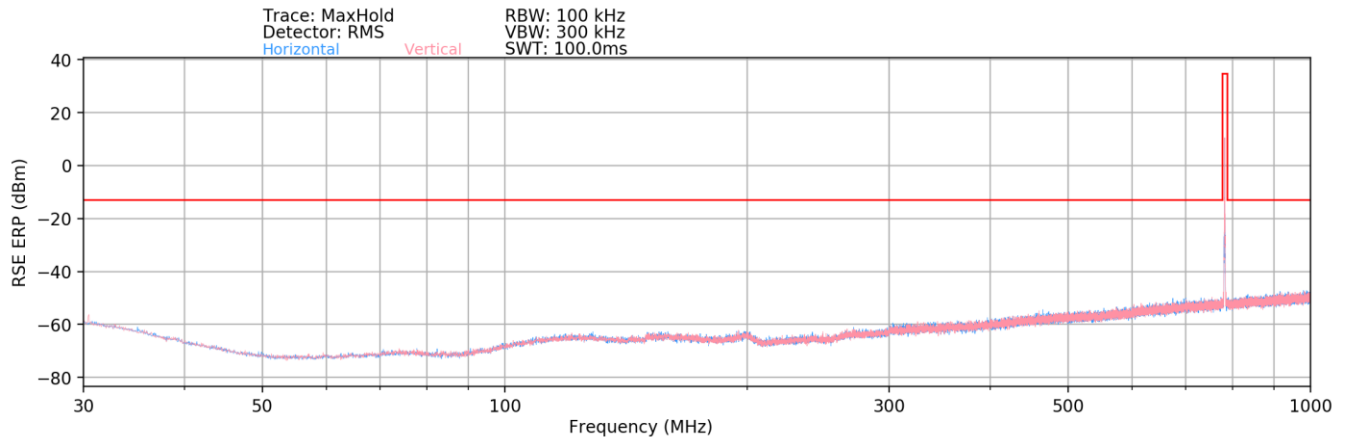
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

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	400	50	-73.74	-3.83	29.43	-65.83	-13.00	-52.83
2133.00	V	-	-	-76.95	-0.22	29.83	-65.43	-13.00	-52.43
2844.00	V	-	-	-77.29	0.93	30.64	-64.62	-13.00	-51.62

Table 7-27. Radiated Spurious Data (LTE Band 12 – High Channel) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 221 of 275

LTE Band 13



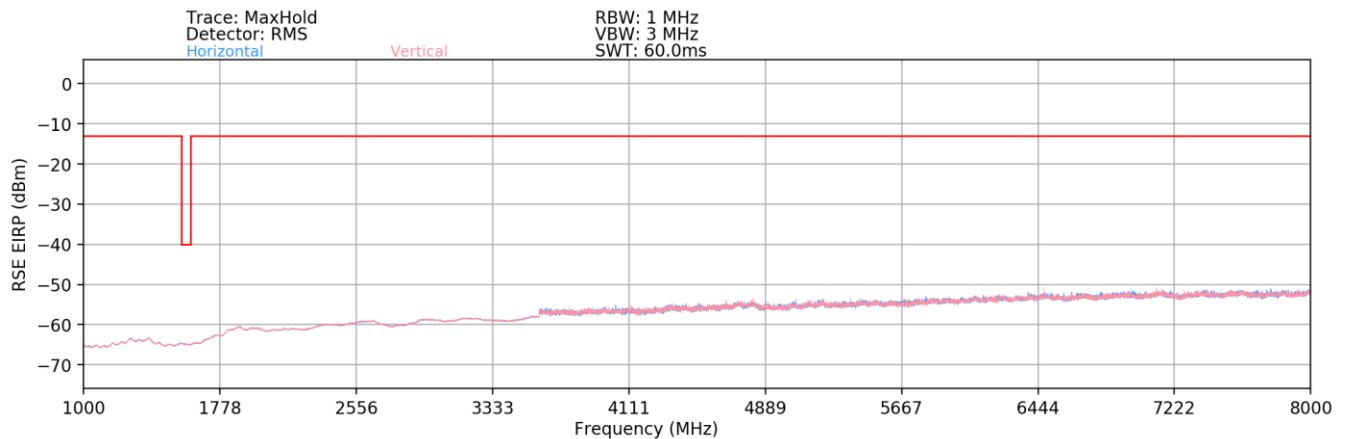
Plot 7-363. Radiated Spurious Plot 30MHz – 1GHz (LTE Band 13) – Closed

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

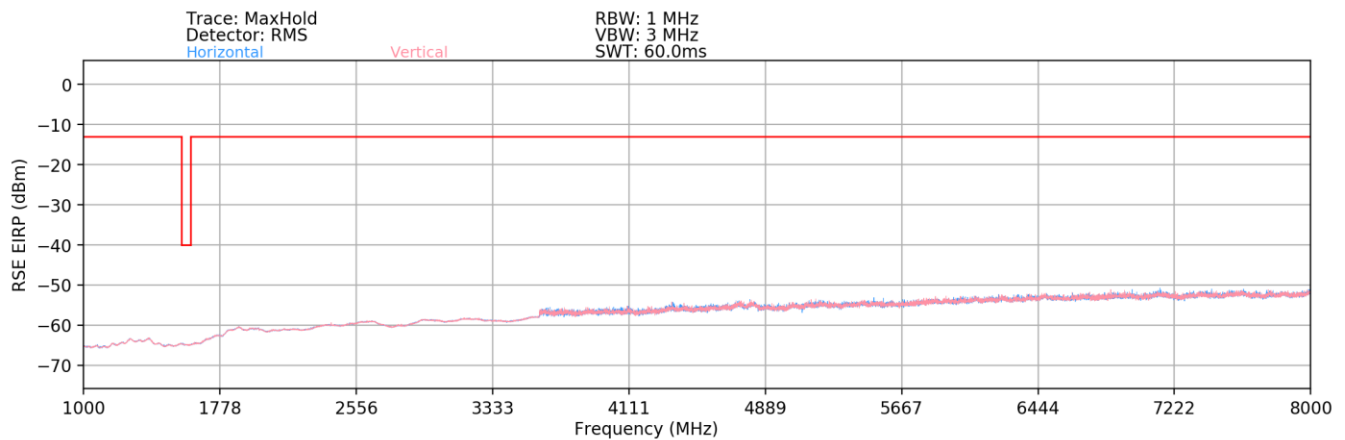
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
33.00	V	-	-	-90.13	25.50	42.37	-55.04	-13.00	-42.04
198.00	V	-	-	-90.11	20.06	36.95	-60.45	-13.00	-47.45
458.00	V	-	-	-89.94	25.12	42.18	-55.22	-13.00	-42.22

Table 7-28. Radiated Spurious Data 30MHz – 1GHz (LTE Band 13) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 222 of 275



Plot 7-364. Radiated Spurious Plot (LTE Band 13) – Closed



Plot 7-365. Radiated Spurious Plot (LTE Band 13) – Open

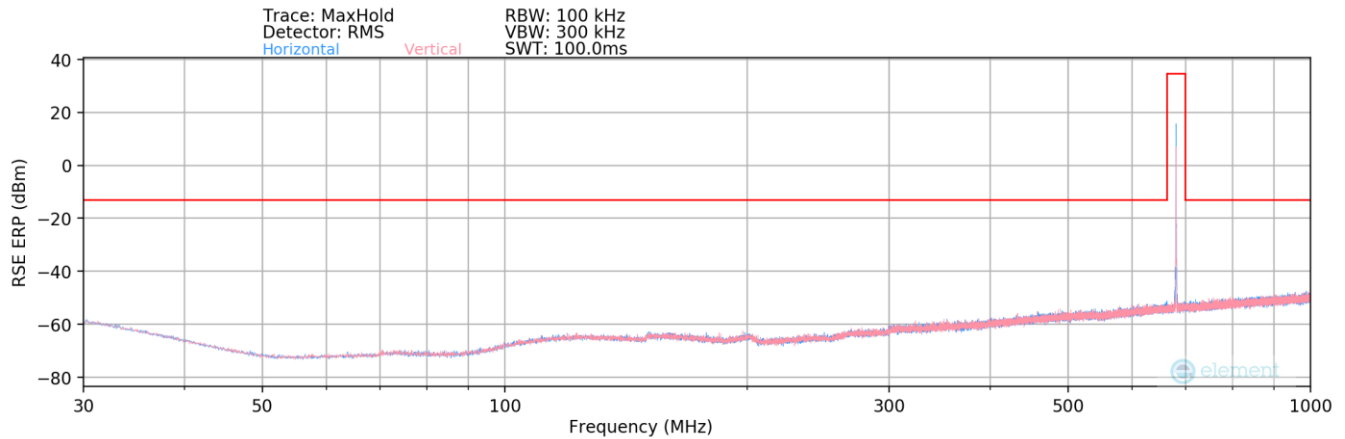
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

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]
1564.00	V	-	-	-76.61	-3.87	26.52	-68.74	-40.00	-28.74
2346.00	V	-	-	-77.40	0.64	30.24	-65.02	-13.00	-52.02
3128.00	V	-	-	-77.55	1.93	31.38	-63.88	-13.00	-50.88

Table 7-29. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 223 of 275

NR Band n71



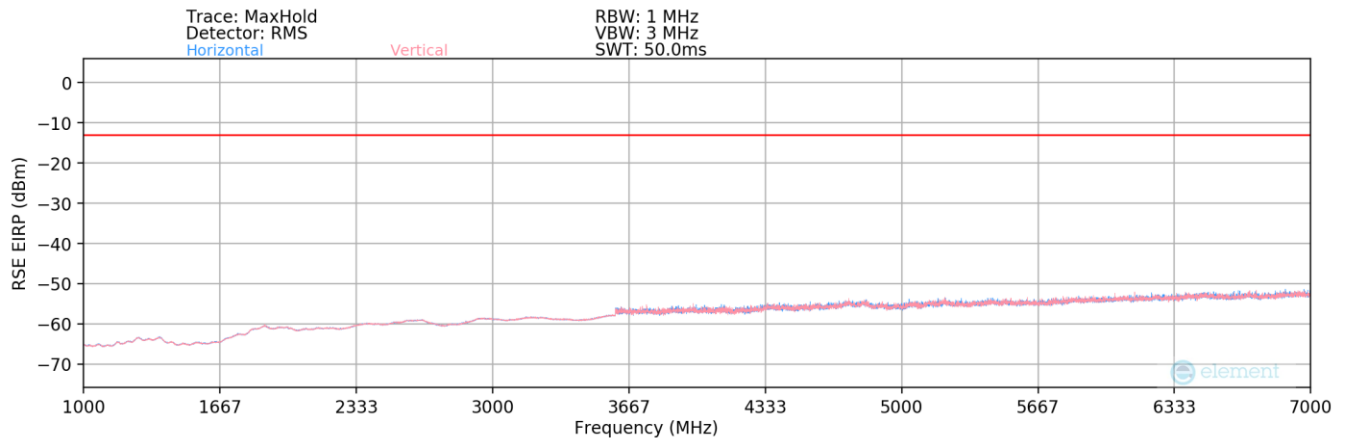
Plot 7-366. Radiated Spurious Plot 30MHz – 1GHz (NR Band n71) – Open

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 53
Mode:	Stand Alone

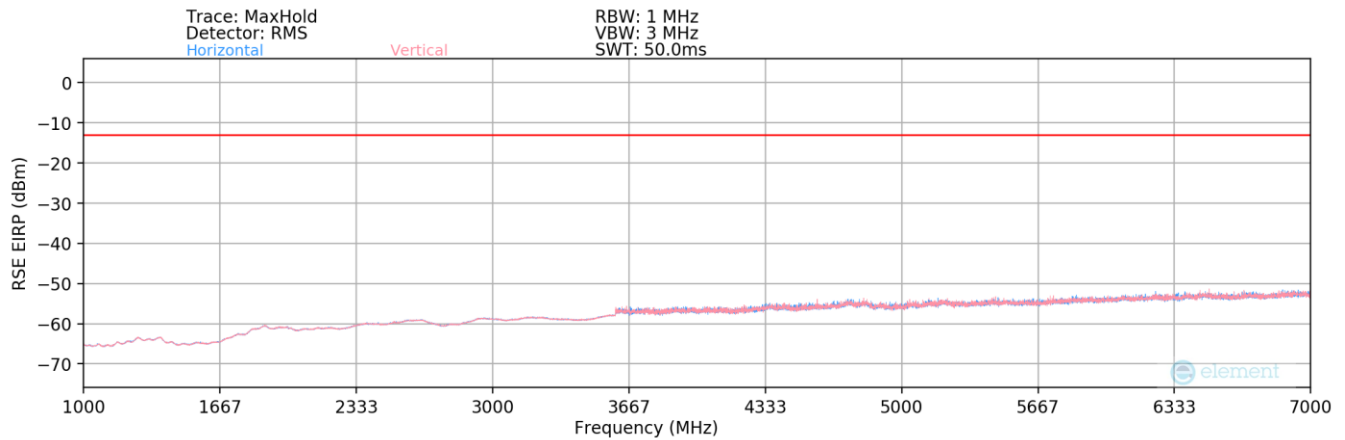
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
453.67	H	-	-	-75.39	24.59	56.20	-41.21	-13.00	-28.21
340.25	H	-	-	-75.22	21.57	53.35	-44.06	-13.00	-31.06
900.00	H	-	-	-83.56	30.55	53.99	-43.42	-13.00	-30.42

Table 7-30. Radiated Spurious Data 30MHz – 1GHz (NR Band n71) – Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 224 of 275



Plot 7-367. Radiated Spurious Plot (NR Band n71) – Open



Plot 7-368. Radiated Spurious Plot (NR Band n71) – Closed

Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	H	-	-	-76.41	-2.80	27.79	-67.46	-13.00	-54.46
2019.00	H	195	94	-75.34	-0.39	31.27	-63.98	-13.00	-50.98
2692.00	H	-	-	-77.47	1.26	30.79	-64.47	-13.00	-51.47
3365.00	H	-	-	-77.30	1.87	31.57	-63.69	-13.00	-50.69

Table 7-31. Radiated Spurious Data (NR Band n71 – Low Channel) – Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 225 of 275

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	H	-	-	-76.24	-2.59	28.17	-67.09	-13.00	-54.09
2041.50	H	187	81	-73.86	-0.57	32.57	-62.69	-13.00	-49.69
2722.00	H	-	-	-77.26	0.72	30.46	-64.80	-13.00	-51.80
3402.50	H	-	-	-77.39	1.70	31.31	-63.95	-13.00	-50.95

Table 7-32. Radiated Spurious Data (NR Band n71 – Mid Channel) – Open

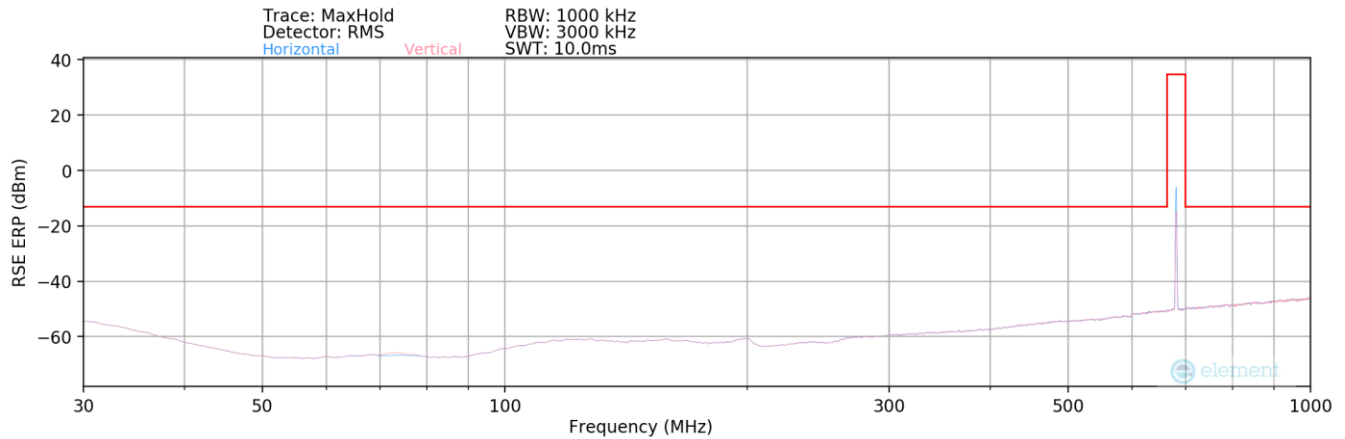
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	H	-	-	-76.35	-2.79	27.86	-67.39	-13.00	-54.39
2064.00	H	227	118	-76.49	-0.52	29.99	-65.27	-13.00	-52.27
2752.00	H	-	-	-77.12	0.49	30.37	-64.88	-13.00	-51.88
3440.00	H	-	-	-77.76	1.67	30.91	-64.34	-13.00	-51.34

Table 7-33. Radiated Spurious Data (NR Band n71 – High Channel) – Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 226 of 275

EN-DC – n71-B66



Plot 7-369. Radiated Spurious Plot 30MHz – 1GHz (EN-DC – n71-B66) – Open

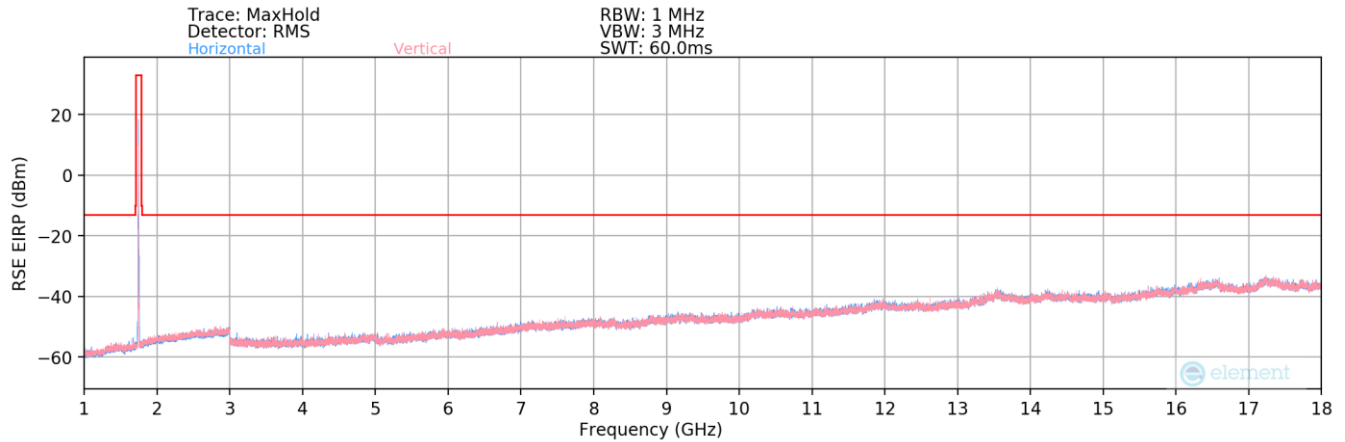
Bandwidth (MHz):	20 & 20
Frequency (MHz):	680.5 & 1745
RB / Offset:	1/53 & 1/50
Mode:	EN-DC
Anchor Band:	B66

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
384.0	V	-	-	-90.26	22.75	39.49	-57.92	-13.00	-44.92

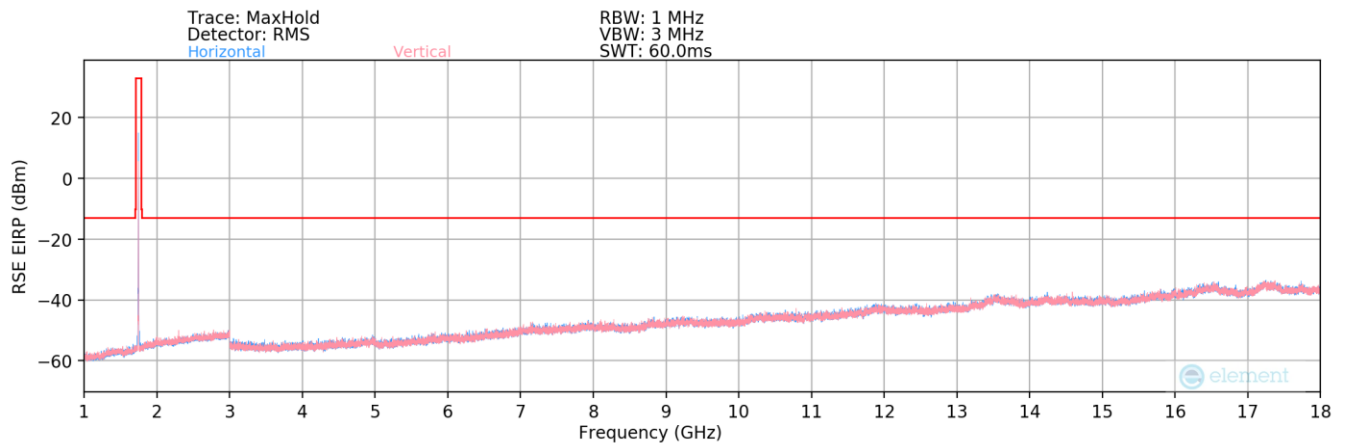
Table 7-34. Radiated Spurious Data (EN-DC – n71-B66) – Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 227 of 275

V3.0 1/5/2022



Plot 7-370. Radiated Spurious Plot (EN-DC – n71-B66) – Open



Plot 7-371. Radiated Spurious Plot (EN-DC – n71-B66) – Closed

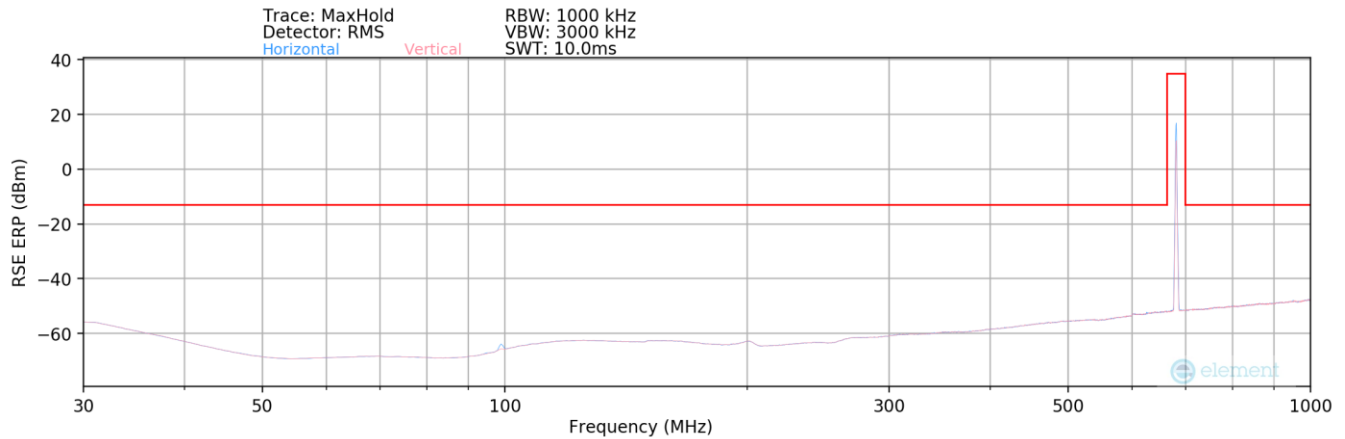
Bandwidth (MHz):	20 & 20
Frequency (MHz):	680.5 & 1745
RB / Offset:	1/53 & 1/50
Mode:	EN-DC
Anchor Band:	B66

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]
2425.5	V	-	-	-79.49	14.20	41.71	-53.55	-13.00	-40.55
3106.0	V	-	-	-80.06	7.90	34.84	-60.42	-13.00	-47.42
4467.0	V	-	-	-80.86	8.77	34.91	-60.34	-13.00	-47.34

Table 7-35. Radiated Spurious Data (EN-DC – n71-B66) - Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 228 of 275

EN-DC – n71-B48



Plot 7-372. Radiated Spurious Plot 30MHz – 1GHz (EN-DC – n71-B48) – Half Open

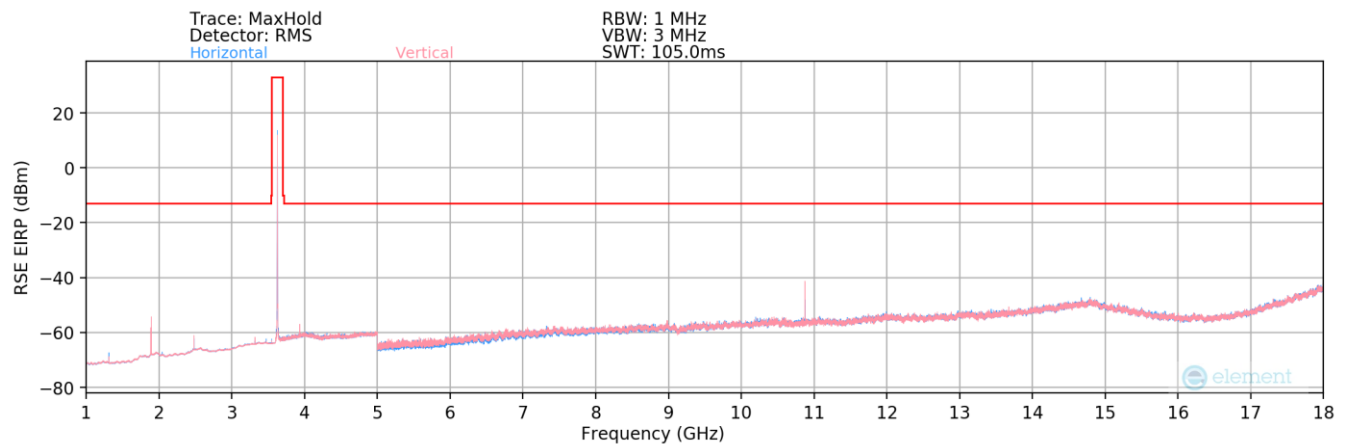
Bandwidth (MHz):	20 & 20
Frequency (MHz):	680.5 & 3625
RB / Offset:	1/53 & 1/50
Mode:	EN-DC
Anchor Band:	B48

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
458.0	V	-	-	-85.35	24.71	46.36	-51.04	-13.00	-38.04

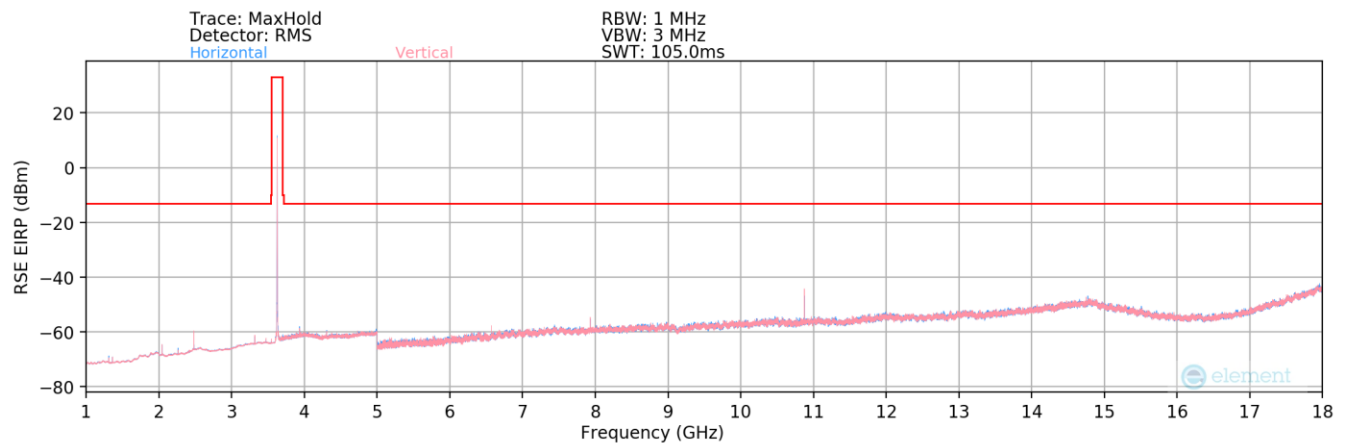
Table 7-36. Radiated Spurious Data (EN-DC – n71-B48) – Half Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 229 of 275

V3.0 1/5/2022



Plot 7-373. Radiated Spurious Plot (EN-DC – n71-B48) – Half Open



Plot 7-374. Radiated Spurious Plot (EN-DC – n71-B48) – Closed

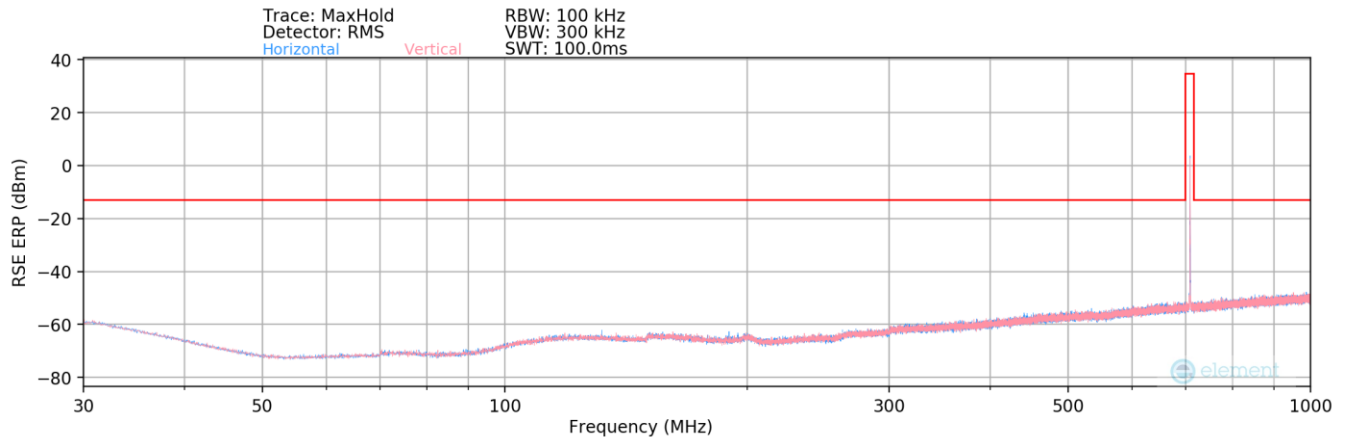
Bandwidth (MHz):	20 & 20
Frequency (MHz):	680.5 & 3625
RB / Offset:	1/53 & 1/50
Mode:	EN-DC
Anchor Band:	B48

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]
1310.5	H	140	341	-39.80	-9.69	57.51	-37.75	-13.00	-24.75
1894.0	V	398	358	-69.54	-6.39	31.07	-64.18	-13.00	-51.18
2486.5	V	350	4	-70.59	-4.13	32.28	-62.97	-13.00	-49.97
3585.0	V	-	-	-71.40	-1.27	34.33	-60.93	-13.00	-47.93
3932.5	V	400	256	-62.39	0.46	45.07	-50.19	-13.00	-37.19
10875.0	V	163	97	-69.77	11.07	48.30	-46.95	-13.00	-33.95
11097.5	V	-	-	-80.32	11.45	38.13	-57.13	-13.00	-44.13

Table 7-37. Radiated Spurious Data (EN-DC – n71-B48) – Half Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 230 of 275

NR Band n12



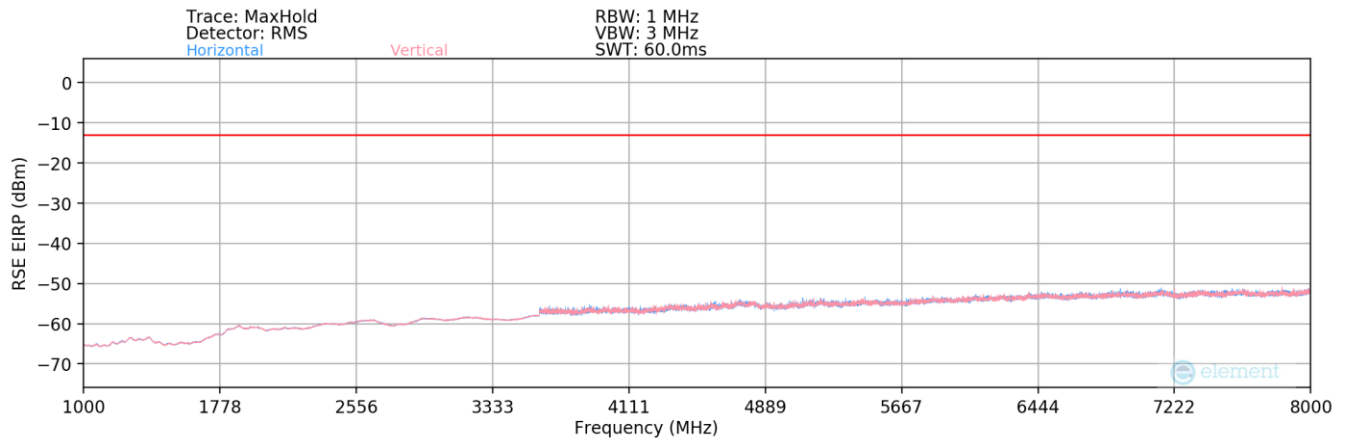
Plot 7-375. Radiated Spurious Plot 30MHz – 1GHz (NR Band n12) – Closed

Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 39
Mode:	Stand Alone

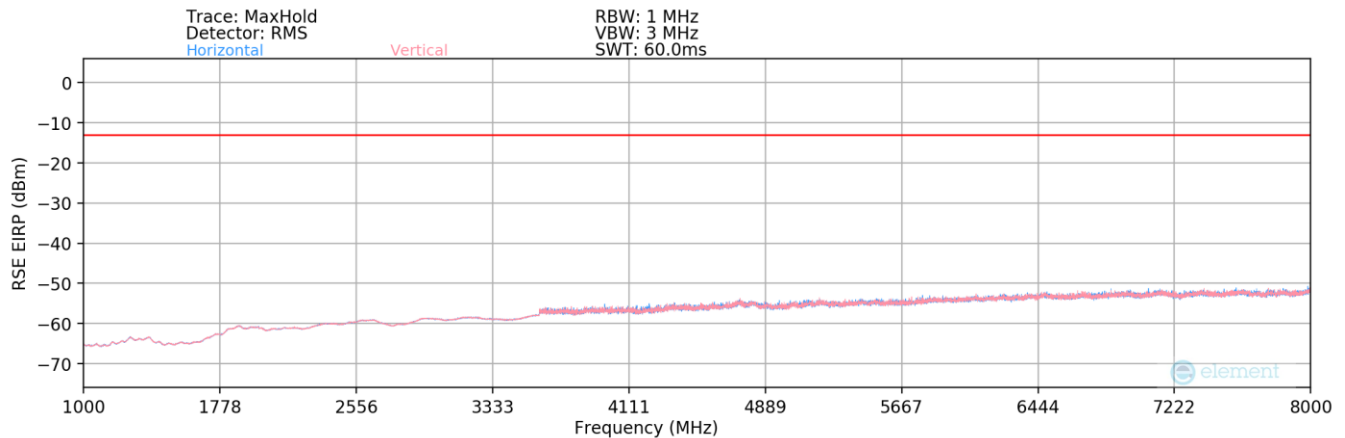
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
472.33	V	-	-	-83.01	25.03	49.02	-48.38	-13.00	-35.38
354.25	V	-	-	-85.32	21.98	43.66	-53.75	-13.00	-40.75
950.00	V	-	-	-81.37	31.23	56.86	-40.55	-13.00	-27.55

Table 7-38. Radiated Spurious Data 30MHz – 1GHz (NR Band n12) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 231 of 275



Plot 7-376. Radiated Spurious Plot (NR Band n12) – Closed



Plot 7-377. Radiated Spurious Plot (NR Band n12) – Half Open

Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 39
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.00	V	158	43	-73.20	-3.78	30.02	-65.24	-13.00	-52.24
2119.50	V	-	-	-77.28	-0.25	29.47	-65.79	-13.00	-52.79
2826.00	V	-	-	-77.34	0.83	30.49	-64.77	-13.00	-51.77
3532.50	V	-	-	-77.69	2.34	31.65	-63.61	-13.00	-50.61

Table 7-39. Radiated Spurious Data (NR Band n12 – Low Channel) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 232 of 275

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 39
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	V	153	36	-71.86	-3.79	31.35	-63.91	-13.00	-50.91
2122.50	V	-	-	-77.20	-0.25	29.55	-65.70	-13.00	-52.70
2830.00	V	-	-	-77.30	0.83	30.53	-64.73	-13.00	-51.73
3537.50	V	-	-	-77.54	2.43	31.89	-63.36	-13.00	-50.36

Table 7-40. Radiated Spurious Data (NR Band n12 – Mid Channel) – Closed

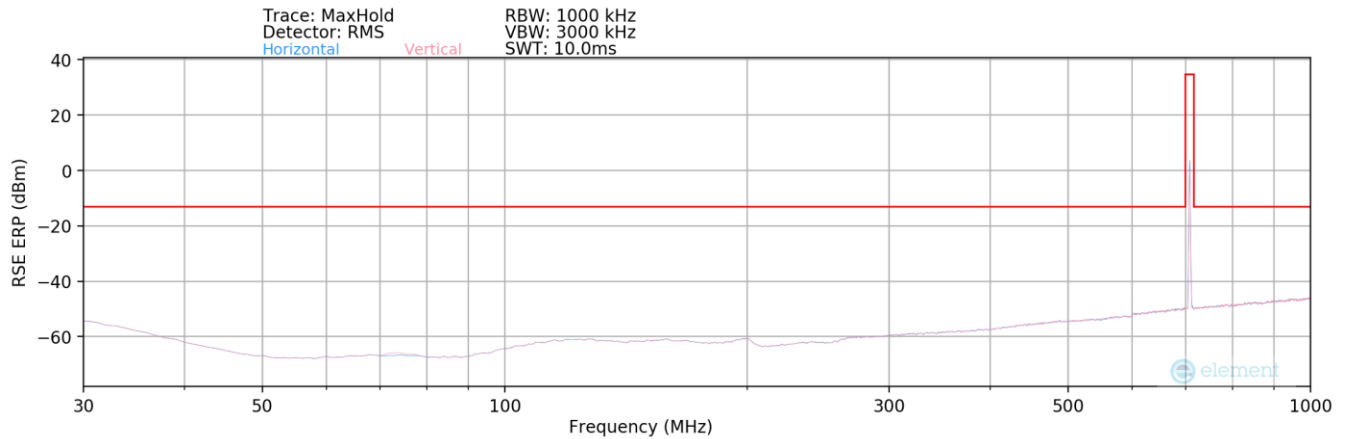
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 39
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.00	V	141	64	-71.44	-3.80	31.76	-63.50	-13.00	-50.50
2125.50	V	-	-	-77.10	-0.24	29.66	-65.60	-13.00	-52.60
2834.00	V	-	-	-77.51	0.86	30.35	-64.91	-13.00	-51.91
3542.50	V	-	-	-77.59	2.54	31.95	-63.31	-13.00	-50.31

Table 7-41. Radiated Spurious Data (NR Band n12 – High Channel) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 233 of 275

EN-DC – n12-B66



Plot 7-378. Radiated Spurious Plot 30MHz – 1GHz (EN-DC – n12-B66) – Half Open

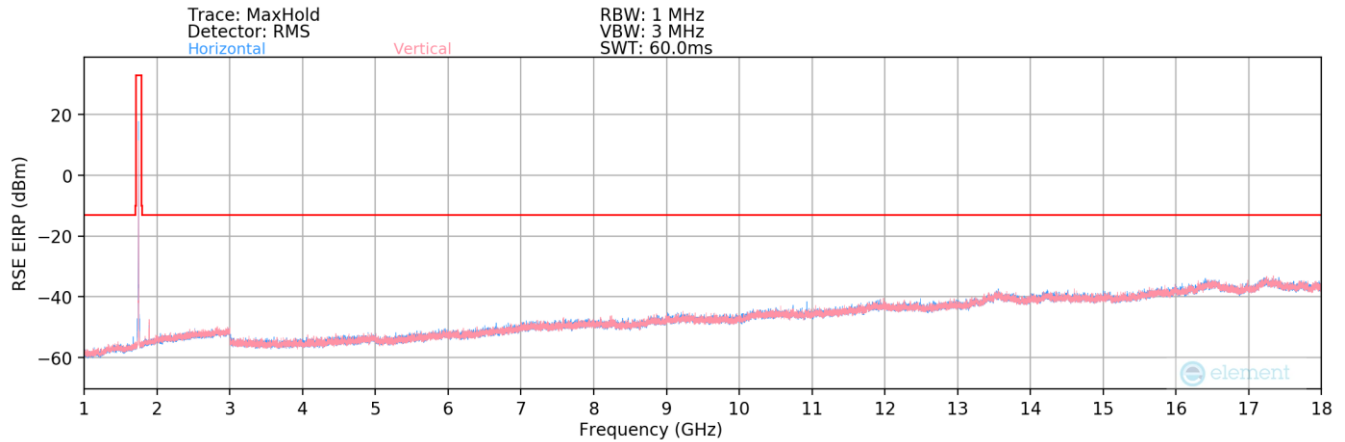
Bandwidth (MHz):	15 & 20
Frequency (MHz):	707.5 & 1745
RB / Offset:	1/39 & 1/50
Mode:	EN-DC
Anchor Band:	B66

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
330.0	V	-	-	-89.79	21.58	38.79	-58.62	-13.00	-45.62

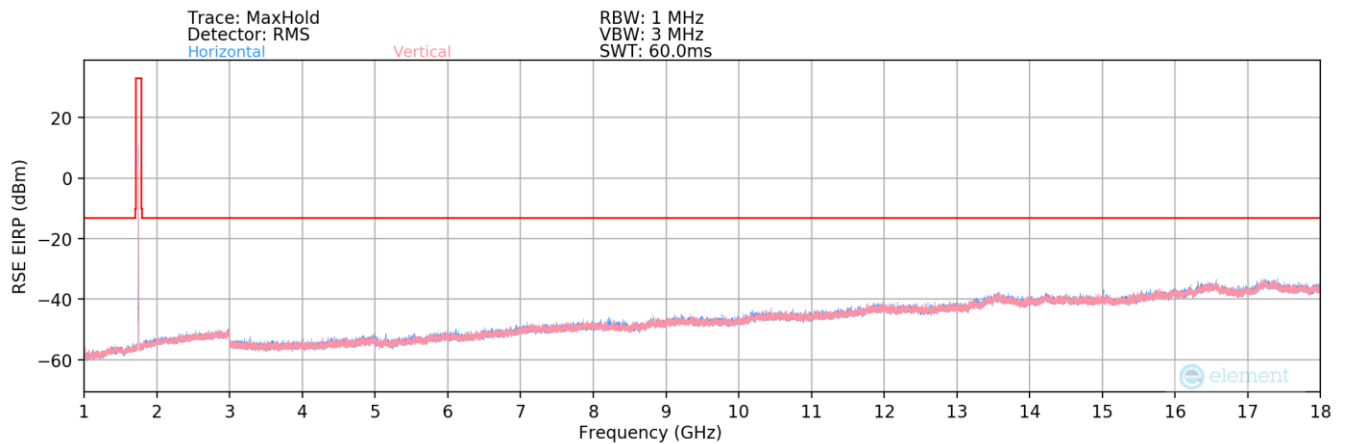
Table 7-42. Radiated Spurious Data (EN-DC – n12-B66) – Half Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 234 of 275

V3.0 1/5/2022



Plot 7-379. Radiated Spurious Plot (EN-DC – n12-B66) – Half Open



Plot 7-380. Radiated Spurious Plot (EN-DC – n12-B66) – Closed

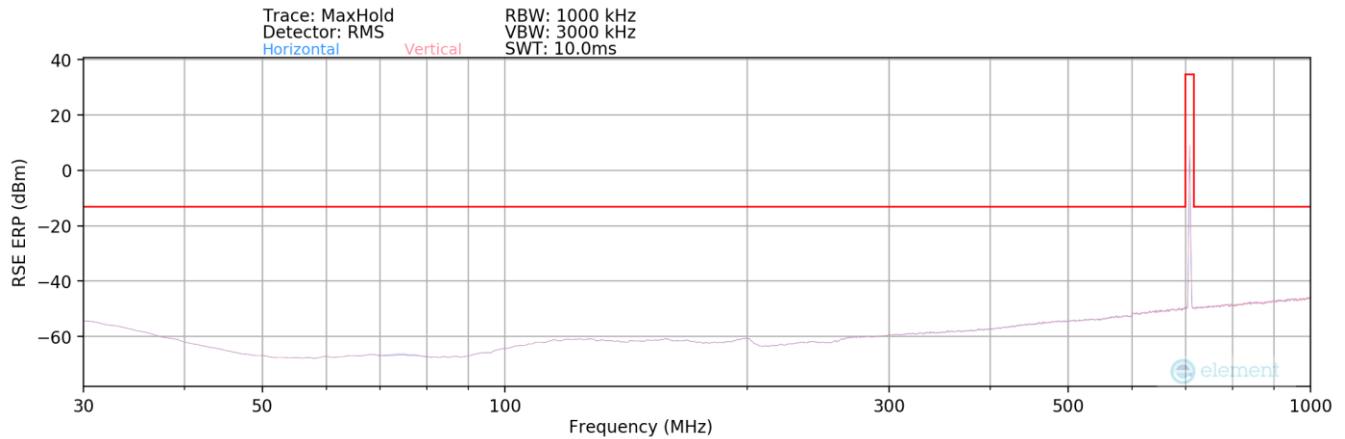
Bandwidth (MHz):	15 & 20
Frequency (MHz):	707.5 & 1745
RB / Offset:	1/39 & 1/50
Mode:	EN-DC
Anchor Band:	B66

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]
1892.0	V	110	160	-69.87	12.39	49.52	-45.74	-13.00	-32.74
2782.5	V	-	-	-72.08	15.15	50.07	-45.19	-13.00	-32.19
3820.0	V	-	-	-72.90	8.31	42.41	-52.85	-13.00	-39.85
4857.5	V	-	-	-72.43	9.78	44.35	-50.91	-13.00	-37.91

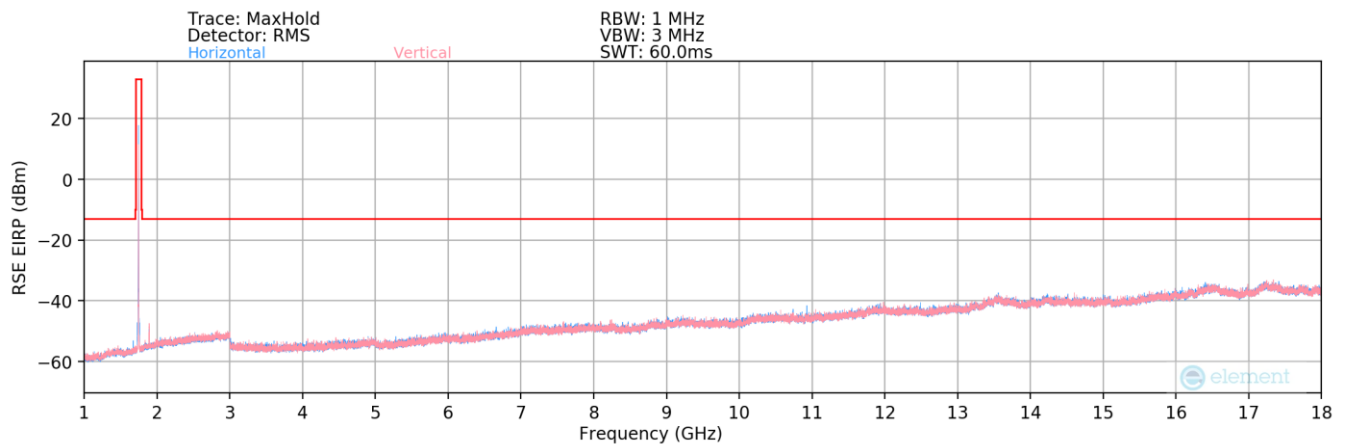
Table 7-43. Radiated Spurious Data (EN-DC – n12-B66) – Half Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 235 of 275

EN-DC – n12-B48



Plot 7-381. Radiated Spurious Plot 30MHz – 1GHz (EN-DC – n12-B48) – Half Open



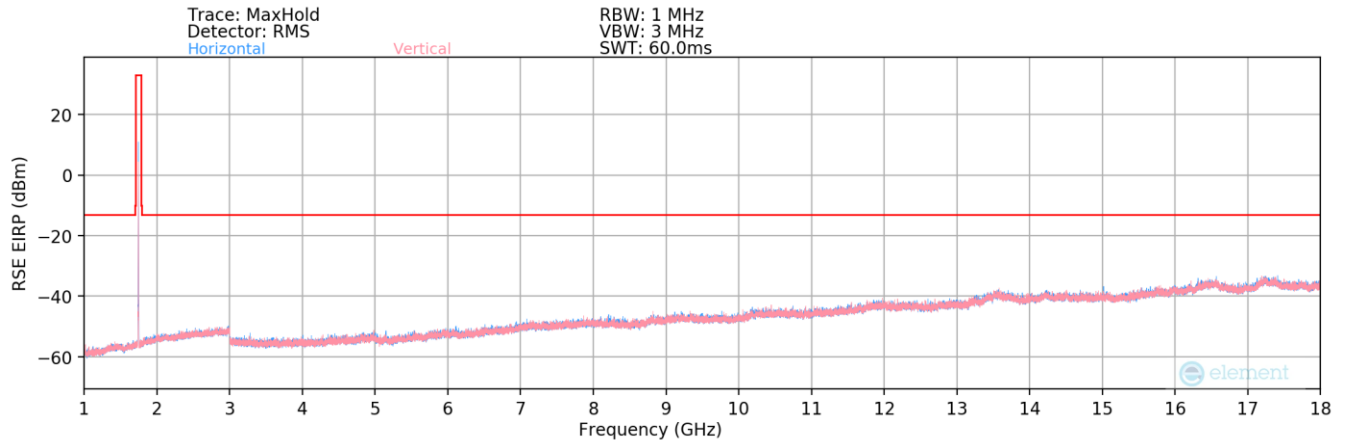
Plot 7-382. Radiated Spurious Plot (EN-DC – n12-B48) – Half Open

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
795.0	V	-	-	-89.48	29.98	47.50	-49.91	-13.00	-36.91

Table 7-44. Radiated Spurious Data (EN-DC – n12-B48) – Half Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset				Page 236 of 275	



Plot 7-383. Radiated Spurious Plot (EN-DC – n12-B48) – Closed

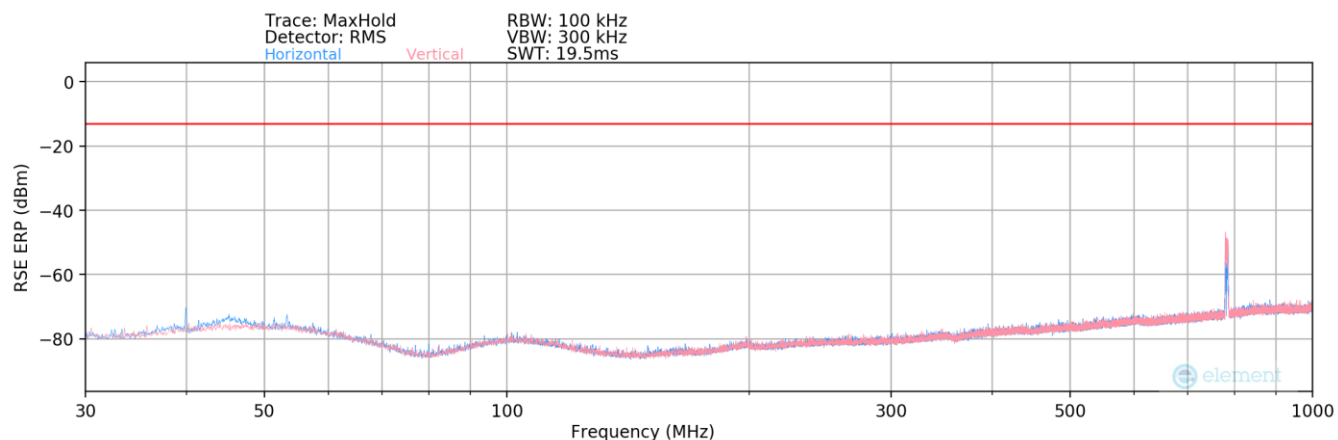
Bandwidth (MHz):	15 & 20
Frequency (MHz):	707.5 & 3625
RB / Offset:	1/39 & 1/50
Mode:	EN-DC
Anchor Band:	B48

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]
1310.5	H	308	62	-32.58	-3.03	71.39	-23.87	-13.00	-10.87
3618.5	H	-	-	-72.60	2.88	37.28	-57.98	-13.00	-44.98
3932.5	V	218	31	-67.03	3.02	42.99	-52.27	-13.00	-39.27
4333.0	V	368	119	-65.77	3.88	45.11	-50.14	-13.00	-37.14
10875.0	V	157	311	-68.76	12.18	50.42	-44.83	-13.00	-31.83
10962.5	V	-	-	-78.81	12.64	40.83	-54.43	-13.00	-41.43
11495.0	V	-	-	-80.13	13.40	40.27	-54.99	-13.00	-41.99
11582.5	V	-	-	-79.21	12.96	40.75	-54.51	-13.00	-41.51

Table 7-45. Radiated Spurious Data (EN-DC – n12-B48) – Half Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 237 of 275

WCDMA AWS



Plot 7-384. Radiated Spurious Plot 30MHz – 1GHz (WCDMA AWS) – Closed

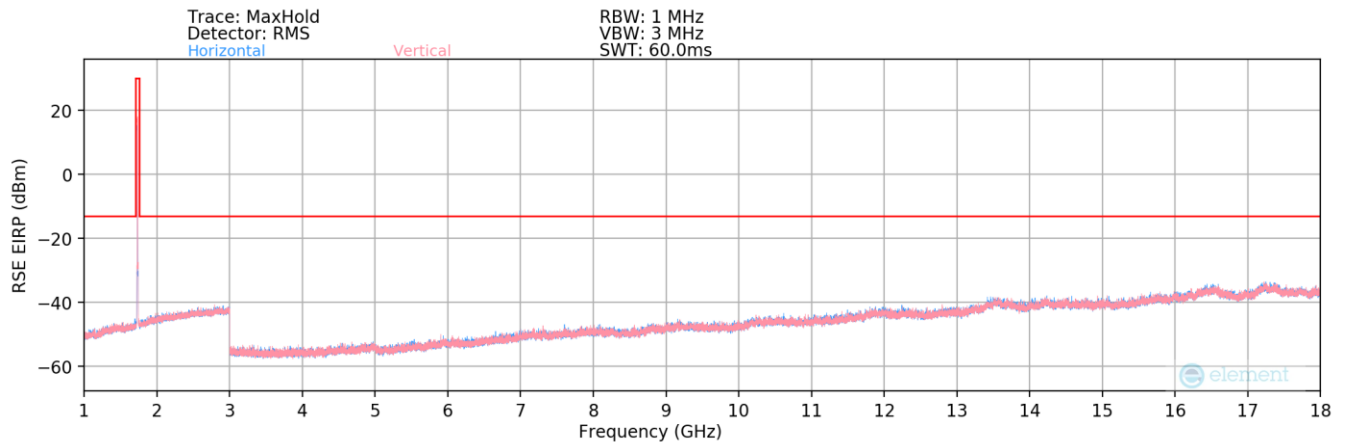
Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
400.00	H	-	-	-75.27	-11.29	20.44	-76.97	-13.00	-63.97
778.00	H	149	299	-74.70	-5.43	26.87	-70.54	-13.00	-57.54

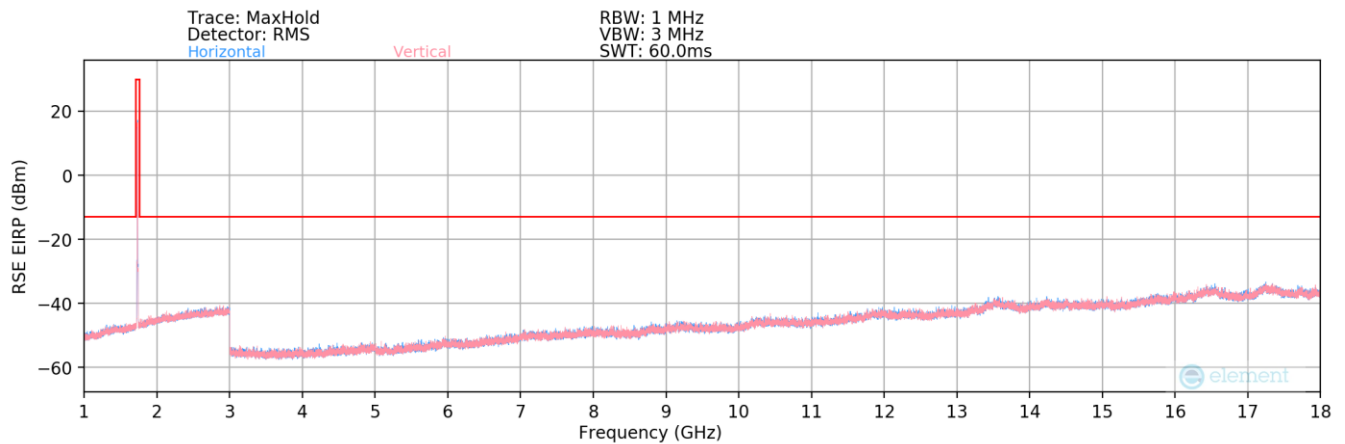
7-46. Radiated Spurious Data 30MHz – 1GHz (WCDMA AWS) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 238 of 275

V3.0 1/5/2022



Plot 7-385. Radiated Spurious Plot (WCDMA AWS) – Closed



Plot 7-386. Radiated Spurious Plot (WCDMA AWS) – Open

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	H	-	-	-80.26	7.71	34.45	-60.81	-13.00	-47.81
5137.20	H	-	-	-81.86	10.95	36.09	-59.17	-13.00	-46.17
6849.60	H	-	-	-82.63	14.63	39.00	-56.25	-13.00	-43.25

7-47. Radiated Spurious Data (WCDMA AWS – Low Channel) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 239 of 275

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	H	-	-	-80.38	7.51	34.13	-61.13	-13.00	-48.13
5197.80	H	-	-	-82.35	10.35	35.00	-60.25	-13.00	-47.25
6930.40	H	-	-	-83.98	14.33	37.35	-57.91	-13.00	-44.91

Table 7-48. Radiated Spurious Data (WCDMA AWS – Mid Channel) – Closed

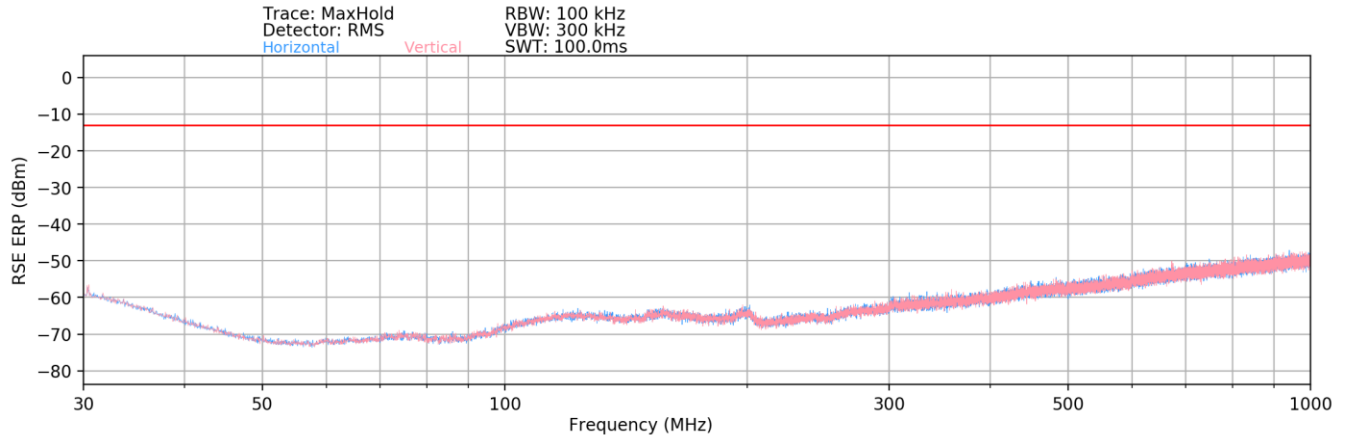
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

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	H	-	-	-80.06	7.72	34.66	-60.60	-13.00	-47.60
5257.80	H	-	-	-81.95	10.65	35.70	-59.56	-13.00	-46.56
7010.40	H	-	-	-82.56	15.24	39.68	-55.57	-13.00	-42.57

Table 7-49. Radiated Spurious Data (WCDMA AWS – High Channel) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 240 of 275

LTE Band 66/4



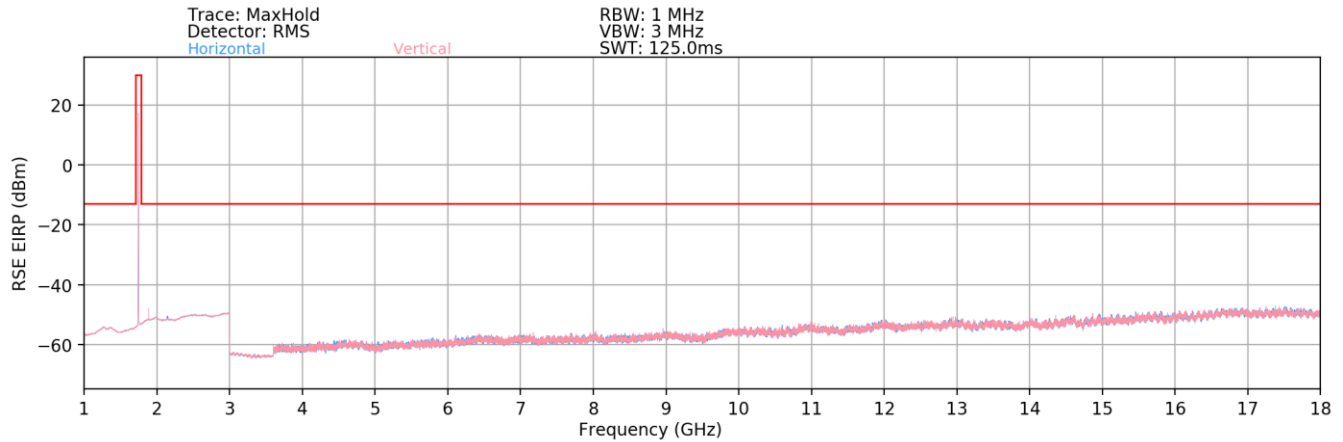
Plot 7-387. Radiated Spurious Plot 30MHz – 1GHz (LTE Band 66/4) – Closed

Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 50

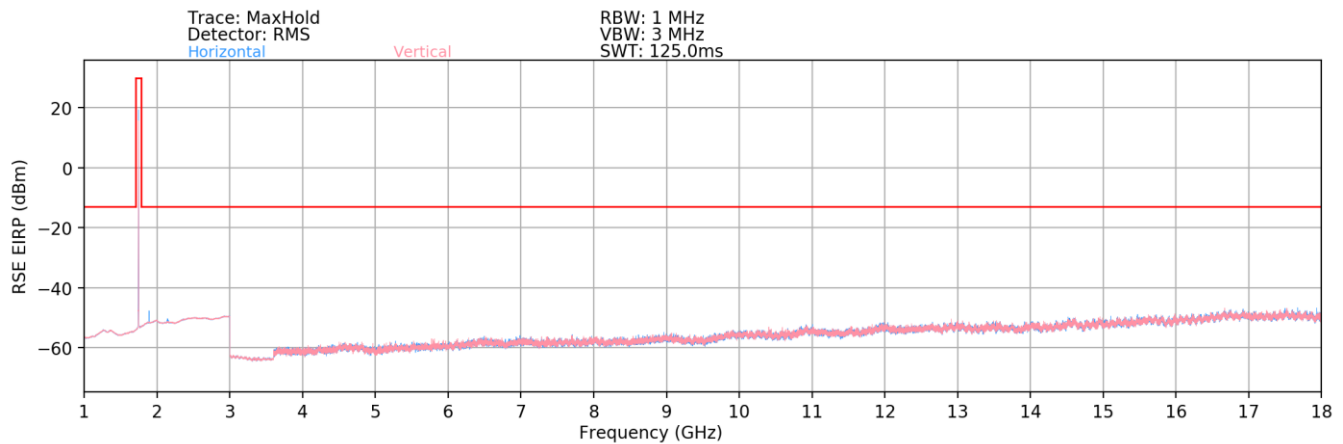
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
33.00	H	-	-	-90.62	25.50	41.88	-55.53	-13.00	-42.53
148.00	H	-	-	-89.94	19.70	36.76	-60.65	-13.00	-47.65
680.00	H	-	-	-90.17	28.28	45.11	-52.29	-13.00	-39.29

Table 7-50. Radiated Spurious Data 30MHz – 1GHz (LTE Band 66/4) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 241 of 275



Plot 7-388. Radiated Spurious Plot (LTE Band 66/4) – Closed



Plot 7-389. Radiated Spurious Plot (LTE Band 66/4) – 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	H	155	140	-77.24	2.88	32.64	-62.62	-13.00	-49.62
5160.00	H	-	-	-78.76	5.00	33.24	-62.02	-13.00	-49.02
6880.00	H	-	-	-79.34	7.96	35.62	-59.64	-13.00	-46.64
8600.00	H	-	-	-80.08	8.43	35.35	-59.90	-13.00	-46.90

Table 7-51. Radiated Spurious Data (LTE Band 66/4 – Low Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 242 of 275

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	141	147	-77.14	2.69	32.55	-62.71	-13.00	-49.71
5235.00	H	-	-	-78.67	5.03	33.36	-61.90	-13.00	-48.90
6980.00	H	-	-	-78.45	7.16	35.71	-59.55	-13.00	-46.55
8725.00	H	-	-	-79.47	8.55	36.08	-59.17	-13.00	-46.17

Table 7-52. Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

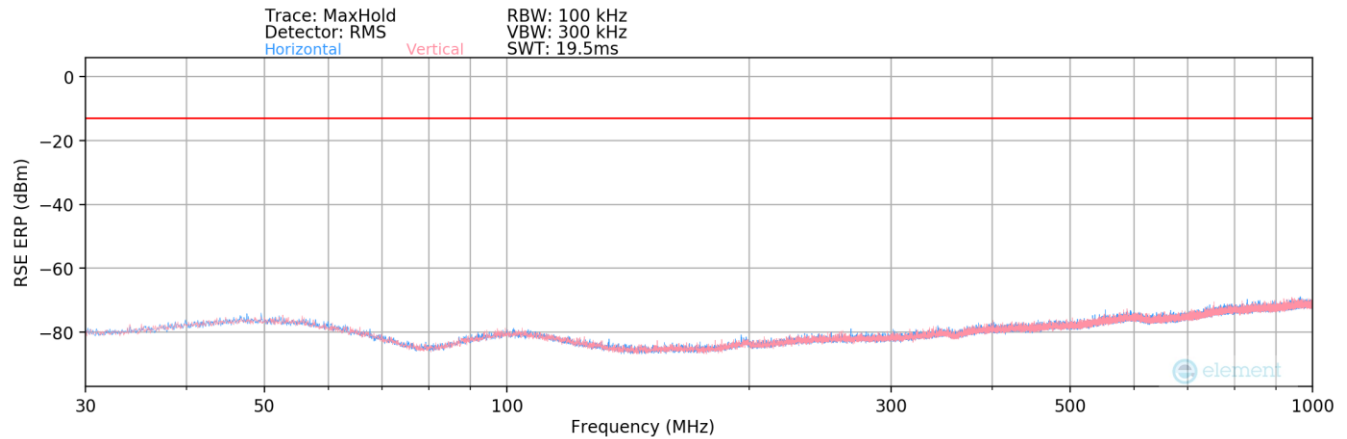
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

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	-	-	-77.17	2.41	32.24	-63.01	-13.00	-50.01
5310.00	H	-	-	-78.56	4.94	33.38	-61.88	-13.00	-48.88
7080.00	H	-	-	-78.68	7.46	35.78	-59.48	-13.00	-46.48

Table 7-53. Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 243 of 275

Uplink CA LTE Band 66B/C



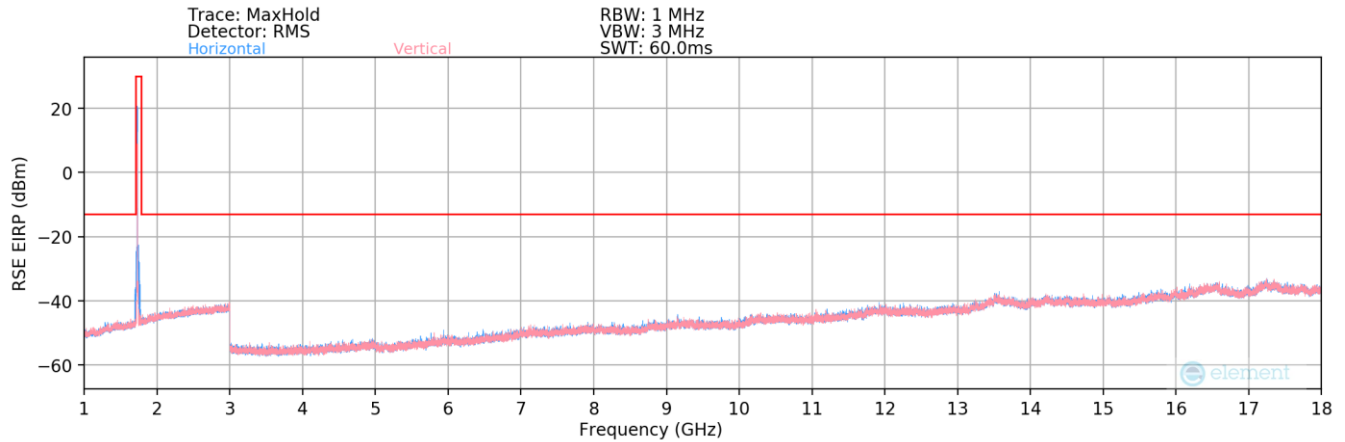
Plot 7-390. Radiated Spurious Plot 30MHz – 1GHz (ULCA B66) – Closed

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

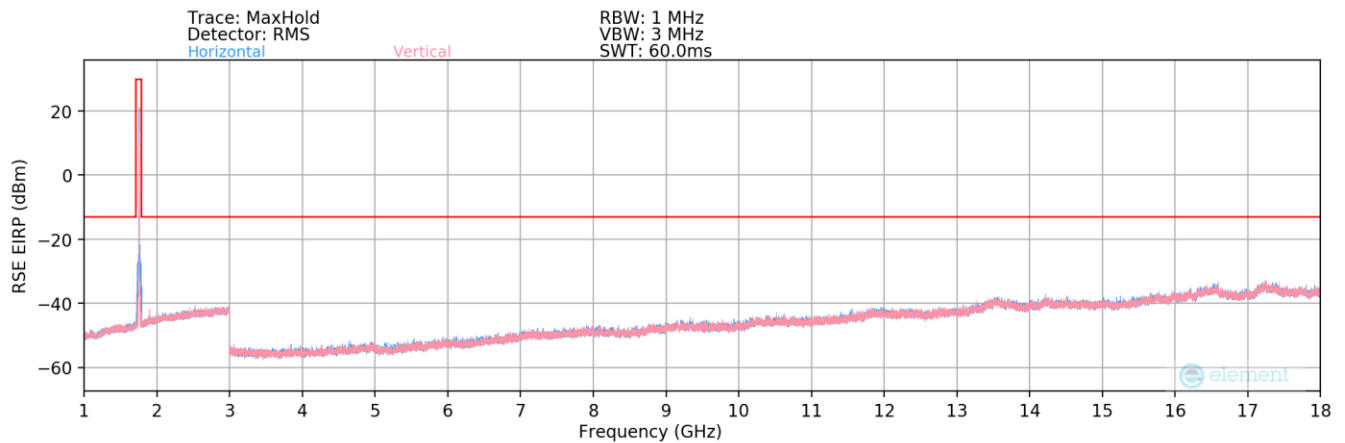
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
438.73	H	-	-	-73.01	-10.78	23.21	-74.20	-13.00	-61.20
584.97	H	-	-	-70.32	-7.95	28.73	-68.68	-13.00	-55.68
877.45	H	-	-	-69.65	-3.81	33.54	-63.87	-13.00	-50.87

Table 7-54. Radiated Spurious Data 30MHz – 1GHz (ULCA B66) – Closed

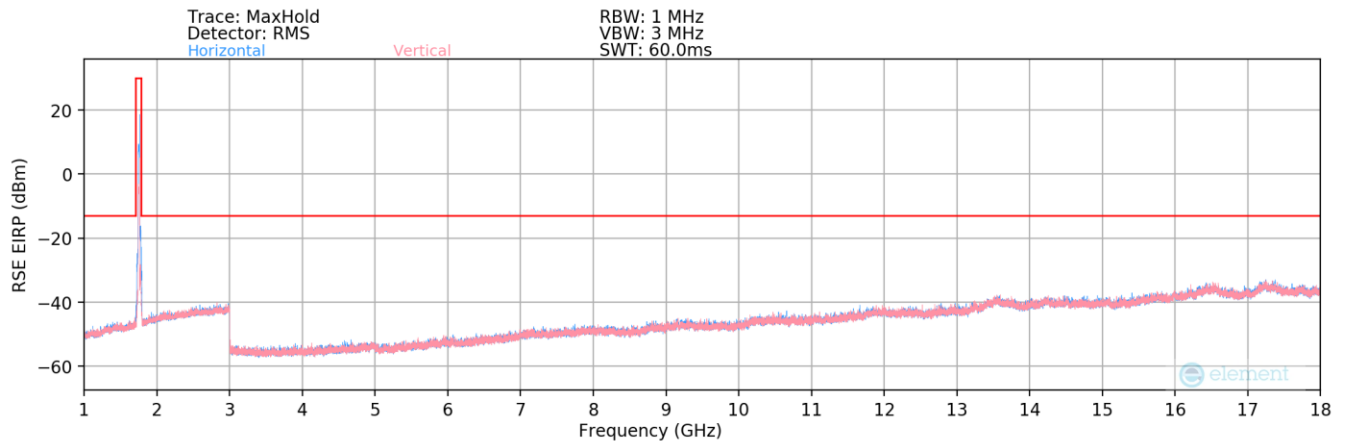
FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 244 of 275



Plot 7-391. Radiated Spurious Plot (ULCA B66 – Low Channel) – Closed

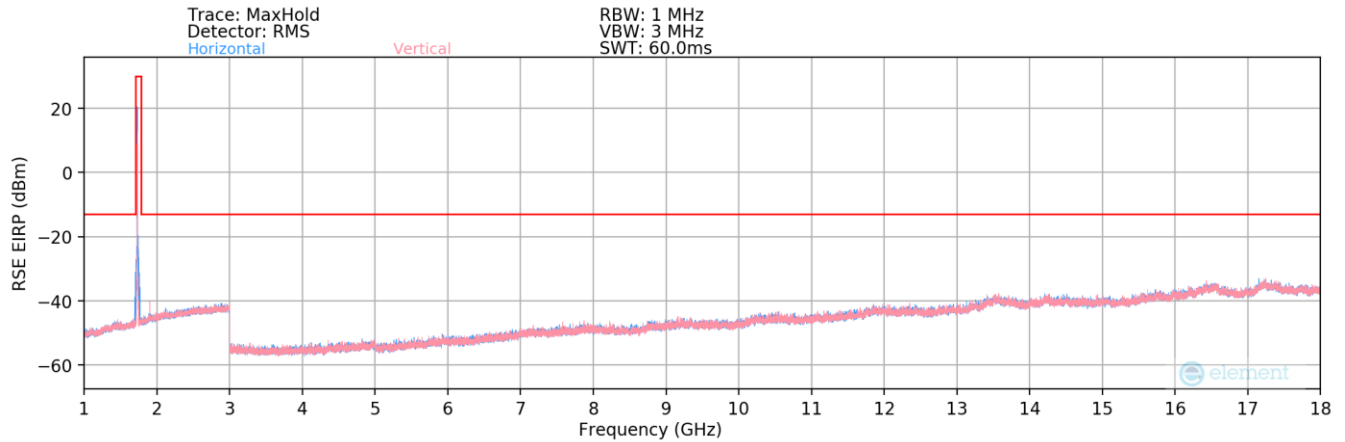


Plot 7-392. Radiated Spurious Plot (ULCA B66 – Mid Channel) – Closed

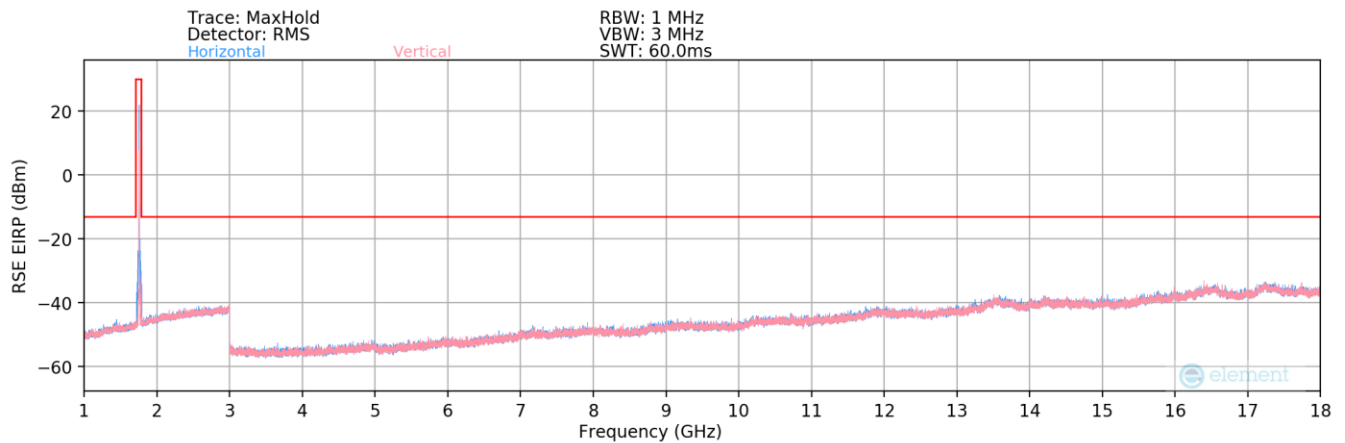


Plot 7-393. Radiated Spurious Plot (ULCA B66 – High Channel) – Closed

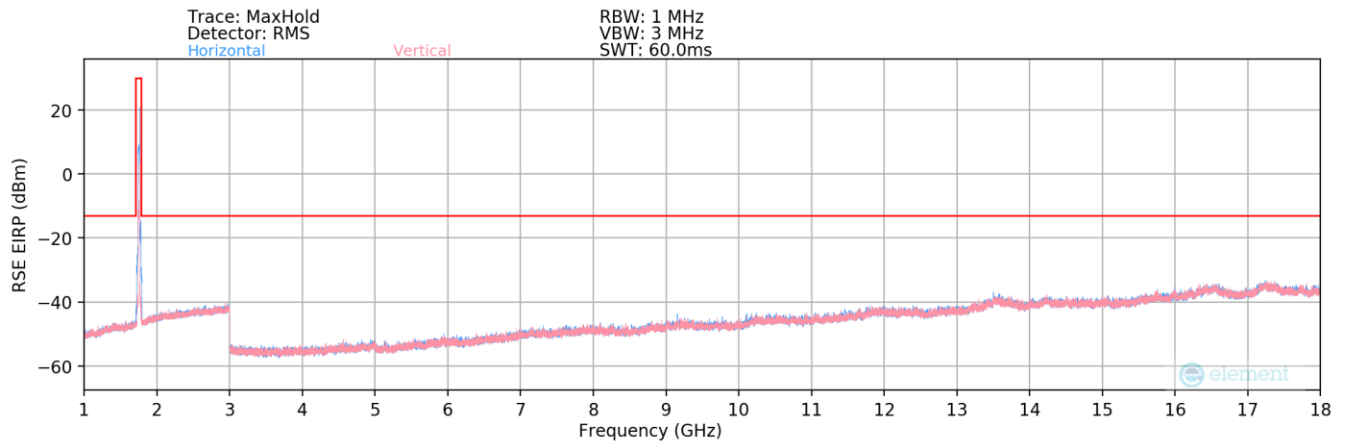
FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 245 of 275



Plot 7-394. Radiated Spurious Plot (ULCA B66 – Low Channel) – Half Open



Plot 7-395. Radiated Spurious Plot (ULCA B66 – Mid Channel) – Half Open



Plot 7-396. Radiated Spurious Plot (ULCA B66 – High Channel) – Half Open

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 246 of 275

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]
3459.80	H	-	-	-80.57	7.52	33.95	-61.31	-13.00	-48.31
5189.70	H	-	-	-81.98	10.48	35.50	-59.76	-13.00	-46.76
6919.60	H	-	-	-82.77	14.20	38.43	-56.83	-13.00	-43.83

Table 7-55. Radiated Spurious Data (ULCA B66 – Low Channel) – Closed

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]
3509.80	H	-	-	-78.93	7.75	35.82	-59.44	-13.00	-46.44
5264.70	H	-	-	-82.15	10.63	35.48	-59.77	-13.00	-46.77
7019.60	H	-	-	-81.97	15.13	40.16	-55.09	-13.00	-42.09

Table 7-56. Radiated Spurious Data (ULCA B66 – Mid Channel) – Closed

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]
3520.20	H	-	-	-78.98	7.78	35.80	-59.46	-13.00	-46.46
5280.30	H	-	-	-81.96	10.61	35.65	-59.61	-13.00	-46.61
7040.40	H	-	-	-82.34	15.28	39.94	-55.32	-13.00	-42.32

Table 7-57. Radiated Spurious Data (ULCA B66 – High Channel) – Closed

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-04.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 247 of 275