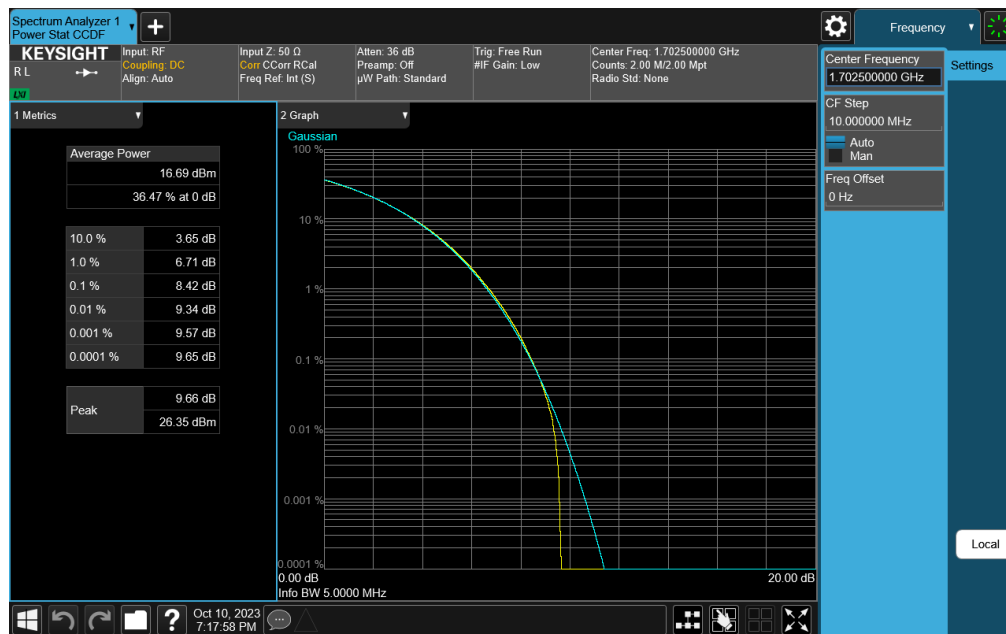
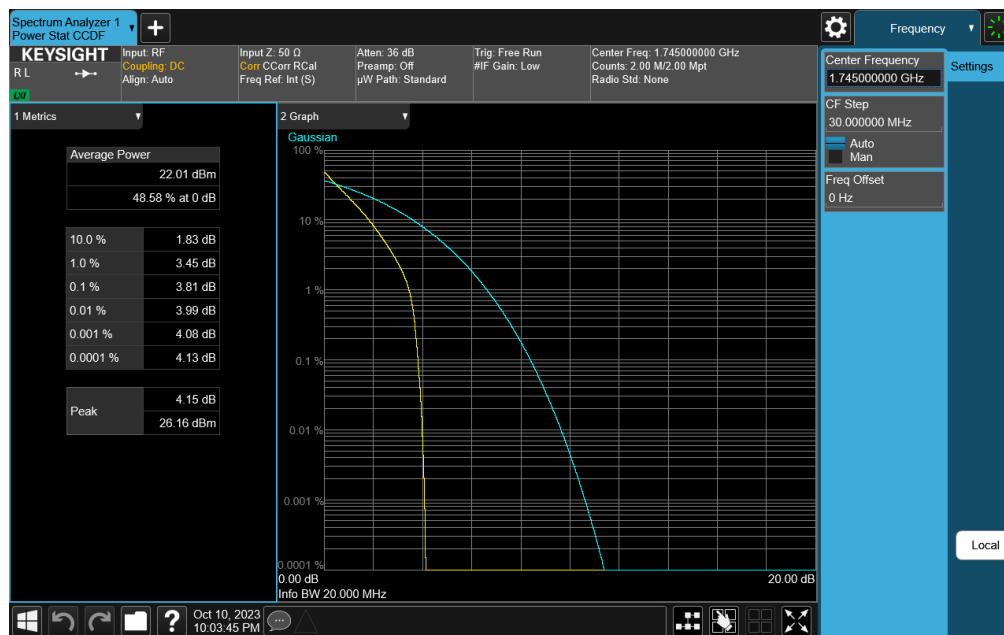




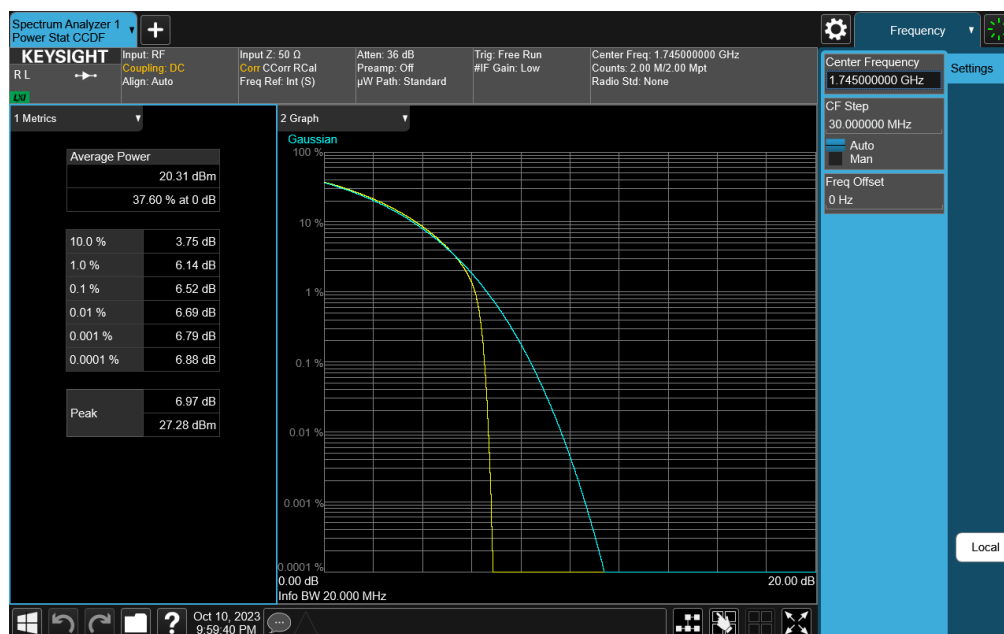
Plot 7-307. PAR Plot (NR Band n70 - 5.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

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NR Band n66 – ANT2

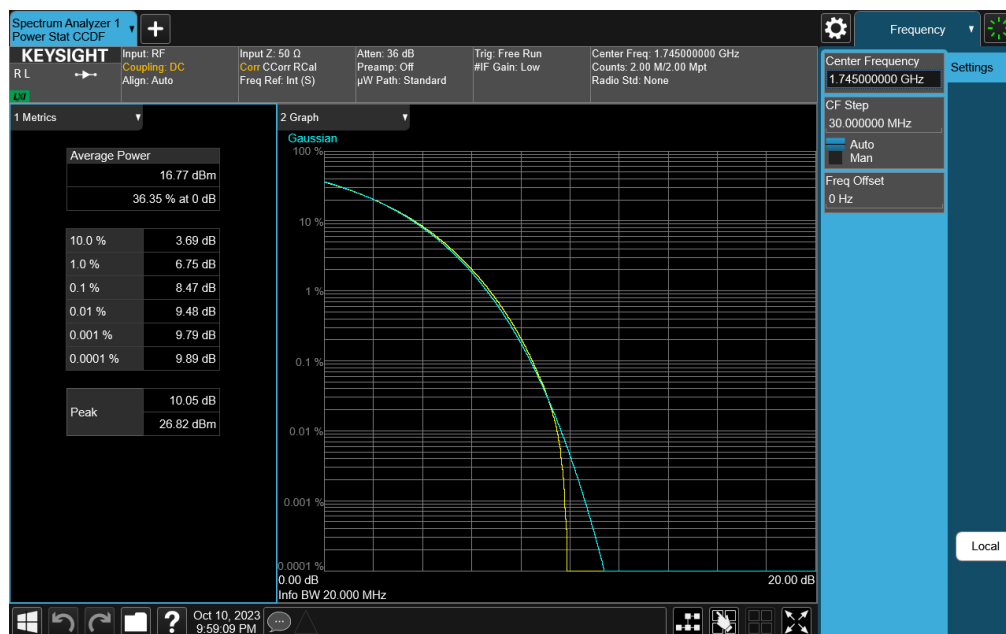


lot 7-308. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK- Full RB - ANT2)



Plot 7-309. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB - ANT2)

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Plot 7-310. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

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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

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Test Setup

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

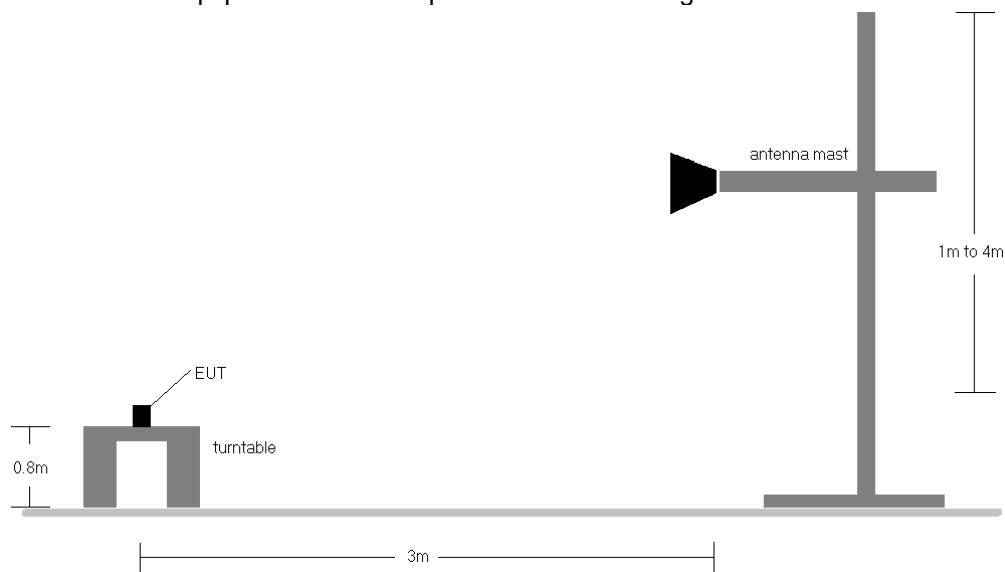


Figure 7-6. Radiated Test Setup <1GHz

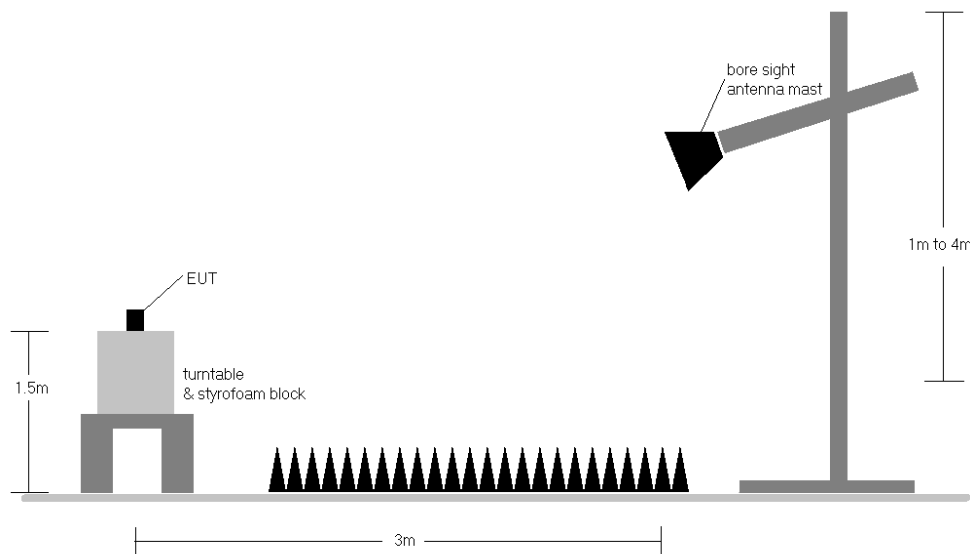


Figure 7-7. Radiated Test Setup >1GHz

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.

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- 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.

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.00	H	128	153	-18.00	1 / 99	36.20	16.05	0.040	34.77	-18.72
	QPSK	680.50	H	116	144	-18.00	1 / 50	36.67	16.52	0.045	34.77	-18.25
	QPSK	688.00	H	124	142	-18.00	1 / 50	36.55	16.40	0.044	34.77	-18.37
	16-QAM	680.50	H	116	144	-18.00	1 / 50	36.05	15.90	0.039	34.77	-18.87
15 MHz	QPSK	670.50	H	128	153	-18.00	1 / 0	36.23	16.08	0.041	34.77	-18.69
	QPSK	680.50	H	116	144	-18.00	1 / 37	36.68	16.53	0.045	34.77	-18.24
	QPSK	690.50	H	124	142	-18.00	1 / 0	36.65	16.50	0.045	34.77	-18.27
	16-QAM	680.50	H	116	144	-18.00	1 / 0	36.14	15.99	0.040	34.77	-18.78
10 MHz	QPSK	668.00	H	128	153	-18.00	1 / 25	36.26	16.11	0.041	34.77	-18.66
	QPSK	680.50	H	116	144	-18.00	1 / 25	36.70	16.55	0.045	34.77	-18.22
	QPSK	693.00	H	124	142	-18.00	1 / 0	36.64	16.49	0.045	34.77	-18.28
	16-QAM	680.50	H	116	144	-18.00	1 / 0	36.05	15.90	0.039	34.77	-18.87
5 MHz	QPSK	665.50	H	128	153	-18.00	1 / 12	36.14	15.99	0.040	34.77	-18.78
	QPSK	680.50	H	116	144	-18.00	1 / 12	36.71	16.56	0.045	34.77	-18.21
	QPSK	695.50	H	124	142	-18.00	1 / 12	36.72	16.57	0.045	34.77	-18.20
	16-QAM	680.50	H	116	144	-18.00	1 / 0	35.95	15.80	0.038	34.77	-18.97
20 MHz	Opposite Pol.	680.50	V	205	78	-18.00	1 / 50	28.04	7.89	0.006	34.77	-26.88
	WCP	680.50	H	124	269	-18.00	1 / 50	36.79	16.64	0.046	34.77	-18.13

Table 7-311. ERP Data (LTE Band 71) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.00	H	107	143	-19.00	1 / 25	36.85	15.70	0.037	34.77	-19.07
	QPSK	707.50	H	120	143	-19.00	1 / 25	37.06	15.91	0.039	34.77	-18.86
	QPSK	711.00	H	112	146	-19.00	1 / 49	36.88	15.73	0.037	34.77	-19.04
	16-QAM	711.00	H	112	146	-19.00	1 / 25	36.46	15.31	0.034	34.77	-19.46
5 MHz	QPSK	701.50	H	107	143	-19.00	1 / 0	36.86	15.71	0.037	34.77	-19.06
	QPSK	707.50	H	120	143	-19.00	1 / 12	37.25	16.10	0.041	34.77	-18.68
	QPSK	713.50	H	112	146	-19.00	1 / 0	36.96	15.81	0.038	34.77	-18.96
	16-QAM	713.50	H	112	146	-19.00	1 / 0	36.59	15.44	0.035	34.77	-19.33
3 MHz	QPSK	700.50	H	107	143	-19.00	1 / 0	36.76	15.61	0.036	34.77	-19.16
	QPSK	707.50	H	120	143	-19.00	1 / 7	37.26	16.11	0.041	34.77	-18.66
	QPSK	714.50	H	112	146	-19.00	1 / 7	36.82	15.67	0.037	34.77	-19.10
	16-QAM	714.50	H	112	146	-19.00	1 / 7	36.47	15.32	0.034	34.77	-19.45
1.4 MHz	QPSK	699.70	H	107	143	-19.00	1 / 3	36.81	15.66	0.037	34.77	-19.11
	QPSK	707.50	H	120	143	-19.00	1 / 3	37.09	15.94	0.039	34.77	-18.83
	QPSK	715.30	H	112	146	-19.00	1 / 3	36.66	15.51	0.036	34.77	-19.26
	16-QAM	715.30	H	112	146	-19.00	1 / 3	36.33	15.18	0.033	34.77	-19.59
10 MHz	Opposite Pol.	707.50	H	124	45	-19.00	1 / 25	36.93	15.78	0.038	34.77	-18.99
	WCP	707.50	H	126	287	-19.00	1 / 25	37.65	16.50	0.045	34.77	-18.27

Table 7-312. ERP Data (LTE Band 12) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.00	H	103	46	-18.60	1 / 25	38.25	17.50	0.056	34.77	-17.27
	16-QAM	782.00	H	103	46	-18.60	1 / 25	37.29	16.54	0.045	34.77	-18.23
5 MHz	QPSK	779.50	H	103	46	-18.60	1 / 0	38.25	17.50	0.056	34.77	-17.27
	QPSK	782.00	H	103	46	-18.60	1 / 0	38.25	17.50	0.056	34.77	-17.27
	QPSK	784.50	H	103	46	-18.60	1 / 12	38.19	17.44	0.055	34.77	-17.33
	16-QAM	784.50	H	103	46	-18.60	1 / 0	37.44	16.69	0.047	34.77	-18.08
10 MHz	Opposite Pol.	782.00	V	136	98	-18.60	1 / 0	34.48	13.73	0.024	34.77	-21.04
	WCP	782.00	H	103	284	-18.60	1 / 0	39.61	18.86	0.077	34.77	-15.91

Table 7-313. ERP Data (LTE Band 13) – Ant1

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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	H	142	324	17.58	3.51	21.09	0.129	30.00	-8.91
1732.60	WCDMA1700	H	143	338	17.74	3.51	21.25	0.133	30.00	-8.75
1752.60	WCDMA1700	H	176	330	19.48	3.51	22.99	0.199	30.00	-7.01
1752.60	WCDMA1700	V	290	197	18.69	3.51	22.20	0.166	30.00	-7.80
1752.60	WCDMA1700 (WCP)	H	131	201	19.68	3.51	23.19	0.208	30.00	-6.81

Table 7-314. EIRP Data (WCDMA) – Ant1

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	1720.00	H	131	143	2.93	1 / 50	22.00	24.93	0.311	30.00	-5.07
	QPSK	1745.00	H	168	124	2.93	1 / 0	20.95	23.88	0.244	30.00	-6.12
	QPSK	1770.00	H	163	139	2.93	1 / 50	20.50	23.43	0.220	30.00	-6.57
	16-QAM	1720.00	H	131	143	2.93	1 / 50	21.27	24.20	0.263	30.00	-5.80
15 MHz	QPSK	1717.50	H	131	143	2.93	1 / 0	21.90	24.83	0.304	30.00	-5.17
	QPSK	1745.00	H	168	124	2.93	1 / 0	20.70	23.63	0.230	30.00	-6.37
	QPSK	1772.50	H	163	139	2.93	1 / 37	20.41	23.34	0.216	30.00	-6.66
	16-QAM	1717.50	H	131	143	2.93	1 / 0	21.43	24.36	0.273	30.00	-5.64
10 MHz	QPSK	1715.00	H	131	143	2.93	1 / 0	21.95	24.88	0.308	30.00	-5.12
	QPSK	1745.00	H	168	124	2.93	1 / 0	20.70	23.63	0.231	30.00	-6.37
	QPSK	1775.00	H	163	139	2.93	1 / 49	20.26	23.19	0.208	30.00	-6.81
	16-QAM	1715.00	H	131	143	2.93	1 / 25	21.29	24.22	0.264	30.00	-5.78
5 MHz	QPSK	1712.50	H	131	143	2.93	1 / 24	22.03	24.96	0.313	30.00	-5.04
	QPSK	1745.00	H	168	124	2.93	1 / 0	20.72	23.65	0.232	30.00	-6.35
	QPSK	1777.50	H	163	139	2.93	1 / 24	20.47	23.40	0.219	30.00	-6.60
	16-QAM	1712.50	H	131	143	2.93	1 / 12	21.56	24.49	0.281	30.00	-5.51
3 MHz	QPSK	1711.50	H	131	143	2.93	1 / 7	21.97	24.90	0.309	30.00	-5.10
	QPSK	1745.00	H	168	124	2.93	1 / 0	20.81	23.74	0.236	30.00	-6.26
	QPSK	1778.50	H	163	139	2.93	1 / 7	20.41	23.34	0.216	30.00	-6.66
	16-QAM	1711.50	H	131	143	2.93	1 / 7	21.53	24.46	0.280	30.00	-5.54
1.4 MHz	QPSK	1710.70	H	131	143	2.93	1 / 0	22.07	25.00	0.316	30.00	-5.00
	QPSK	1745.00	H	168	124	2.93	1 / 3	20.63	23.56	0.227	30.00	-6.44
	QPSK	1779.30	H	163	139	2.93	1 / 0	20.31	23.24	0.211	30.00	-6.76
	16-QAM	1710.70	H	131	143	2.93	1 / 3	21.33	24.26	0.267	30.00	-5.74
20 MHz	Opposite Pol.	1720.00	V	136	201	2.93	1 / 99	10.42	13.35	0.022	30.00	-16.65
	WCP	1720.00	H	221	150	2.93	1 / 50	16.41	19.34	0.086	30.00	-10.66

Table 7-315. EIRP Data (LTE Band 66/4) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	673.00	H	137	11	2.99	1 / 104	18.54	21.53	0.142	36.99	-15.46
	$\pi/2$ BPSK	680.50	H	122	168	3.09	1 / 104	18.14	21.23	0.133	36.99	-15.76
	$\pi/2$ BPSK	688.00	H	133	13	3.08	1 / 104	18.87	21.95	0.157	36.99	-15.04
	QPSK	673.00	H	137	11	2.99	1 / 104	18.45	21.44	0.139	36.99	-15.55
	QPSK	680.50	H	122	168	3.09	1 / 104	18.08	21.17	0.131	36.99	-15.82
	QPSK	688.00	H	133	13	3.08	1 / 104	18.49	21.57	0.144	36.99	-15.42
	16-QAM	688.00	H	133	13	3.08	1 / 104	17.00	20.08	0.102	36.99	-16.91
15 MHz	$\pi/2$ BPSK	670.50	H	137	11	2.96	1 / 1	18.79	21.75	0.150	36.99	-15.24
	$\pi/2$ BPSK	680.50	H	122	168	3.09	1 / 39	18.12	21.21	0.132	36.99	-15.78
	$\pi/2$ BPSK	690.50	H	133	13	3.11	1 / 77	18.91	22.02	0.159	36.99	-14.97
	QPSK	670.50	H	137	11	2.96	1 / 39	18.59	21.54	0.143	36.99	-15.45
	QPSK	680.50	H	122	168	3.09	1 / 77	18.25	21.34	0.136	36.99	-15.65
	QPSK	690.50	H	133	13	3.11	1 / 77	18.64	21.75	0.150	36.99	-15.24
	16-QAM	690.50	H	133	13	3.11	1 / 39	16.92	20.03	0.101	36.99	-16.96
10 MHz	$\pi/2$ BPSK	668.00	H	137	11	2.92	1 / 1	18.74	21.66	0.147	36.99	-15.33
	$\pi/2$ BPSK	680.50	H	122	168	3.09	1 / 50	18.20	21.28	0.134	36.99	-15.71
	$\pi/2$ BPSK	693.00	H	133	13	3.14	1 / 26	18.72	21.87	0.154	36.99	-15.12
	QPSK	668.00	H	137	11	2.92	1 / 50	18.58	21.51	0.141	36.99	-15.48
	QPSK	680.50	H	122	168	3.09	1 / 1	18.34	21.42	0.139	36.99	-15.57
	QPSK	693.00	H	133	13	3.14	1 / 26	18.41	21.56	0.143	36.99	-15.43
	16-QAM	693.00	H	133	13	3.14	1 / 50	16.79	19.93	0.098	36.99	-17.06
5 MHz	$\pi/2$ BPSK	665.50	H	137	11	2.94	1 / 12	18.59	21.53	0.142	36.99	-15.46
	$\pi/2$ BPSK	680.50	H	122	168	3.09	1 / 12	18.21	21.29	0.135	36.99	-15.70
	$\pi/2$ BPSK	695.50	H	133	13	3.18	1 / 23	18.79	21.96	0.157	36.99	-15.03
	QPSK	665.50	H	137	11	2.94	1 / 12	18.66	21.60	0.145	36.99	-15.39
	QPSK	680.50	H	122	168	3.09	1 / 1	18.44	21.53	0.142	36.99	-15.46
	QPSK	695.50	H	133	13	3.18	1 / 23	18.60	21.77	0.150	36.99	-15.22
	16-QAM	680.50	H	122	168	3.09	1 / 1	17.17	20.26	0.106	36.99	-16.73
20 MHz	QPSK (CP-OFDM)	688.00	H	133	13	3.09	1 / 104	17.74	20.83	0.121	36.99	-16.16
	QPSK (WCP)	688.00	H	128	26	3.09	1 / 104	18.02	21.11	0.129	36.99	-15.88

Table 7-316. ERP Data (NR Band n71) – Ant1

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]
15 MHz	$\pi/2$ BPSK	706.50	H	125	175	3.51	1 / 77	19.11	22.62	0.183	36.99	-14.37
	$\pi/2$ BPSK	707.50	H	126	173	3.52	1 / 77	19.06	22.58	0.181	36.99	-14.41
	$\pi/2$ BPSK	708.50	H	122	168	3.54	1 / 77	19.36	22.90	0.195	36.99	-14.09
	QPSK	706.50	H	125	175	3.51	1 / 77	18.99	22.50	0.178	36.99	-14.49
	QPSK	707.50	H	126	173	3.52	1 / 77	18.95	22.47	0.177	36.99	-14.52
	QPSK	708.50	H	122	168	3.54	1 / 77	19.24	22.78	0.190	36.99	-14.21
	16-QAM	708.50	H	122	168	3.54	1 / 77	18.16	21.70	0.148	36.99	-15.29
10 MHz	$\pi/2$ BPSK	704.00	H	125	175	3.48	1 / 50	19.19	22.67	0.185	36.99	-14.32
	$\pi/2$ BPSK	707.50	H	126	173	3.52	1 / 50	19.16	22.69	0.186	36.99	-14.30
	$\pi/2$ BPSK	711.00	H	122	168	3.57	1 / 50	19.19	22.76	0.189	36.99	-14.23
	QPSK	704.00	H	125	175	3.48	1 / 26	18.85	22.33	0.171	36.99	-14.66
	QPSK	707.50	H	126	173	3.52	1 / 50	18.91	22.44	0.175	36.99	-14.55
	QPSK	711.00	H	122	168	3.57	1 / 1	19.17	22.73	0.188	36.99	-14.26
	16-QAM	711.00	H	122	168	3.57	1 / 50	18.32	21.89	0.155	36.99	-15.10
5 MHz	$\pi/2$ BPSK	701.50	H	125	175	3.45	1 / 1	19.15	22.60	0.182	36.99	-14.39
	$\pi/2$ BPSK	707.50	H	126	173	3.52	1 / 12	19.07	22.59	0.182	36.99	-14.40
	$\pi/2$ BPSK	713.50	H	122	168	3.70	1 / 12	19.33	23.02	0.201	36.99	-13.97
	QPSK	701.50	H	125	175	3.45	1 / 1	18.45	21.90	0.155	36.99	-15.09
	QPSK	707.50	H	126	173	3.52	1 / 12	19.03	22.56	0.180	36.99	-14.43
	QPSK	713.50	H	122	168	3.70	1 / 1	19.39	23.09	0.204	36.99	-13.90
	16-QAM	707.50	H	126	173	3.52	1 / 23	18.26	21.78	0.151	36.99	-15.21
15 MHz	QPSK (CP-OFDM)	708.50	H	122	168	3.54	1 / 77	18.09	21.63	0.146	36.99	-15.36
	QPSK (WCP)	708.50	H	129	177	3.54	1 / 77	19.08	22.62	0.183	36.99	-14.37

Table 7-317. ERP Data (NR Band n12) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11/2023	EUT Type: Portable Handset		Page 218 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]
15 MHz	$\pi/2$ BPSK	1702.50	H	364	165	2.93	1 / 77	23.38	26.31	0.428	30.00	-3.69
	QPSK	1702.50	H	364	165	2.93	1 / 77	23.19	26.12	0.409	30.00	-3.88
	16-QAM	1702.50	H	364	165	2.93	1 / 77	22.41	25.34	0.342	30.00	-4.66
10 MHz	$\pi/2$ BPSK	1700.00	H	364	165	2.93	1 / 1	23.53	26.46	0.442	30.00	-3.54
	$\pi/2$ BPSK	1702.50	H	364	165	2.93	1 / 1	23.50	26.43	0.440	30.00	-3.57
	$\pi/2$ BPSK	1705.00	H	364	165	2.93	1 / 1	23.65	26.58	0.455	30.00	-3.42
	QPSK	1700.00	H	364	165	2.93	1 / 1	23.45	26.38	0.435	30.00	-3.62
	QPSK	1702.50	H	364	165	2.93	1 / 1	23.42	26.35	0.432	30.00	-3.65
	QPSK	1705.00	H	364	165	2.93	1 / 1	23.41	26.34	0.430	30.00	-3.66
	16-QAM	1702.50	H	364	165	2.93	1 / 50	22.33	25.26	0.336	30.00	-4.74
5 MHz	$\pi/2$ BPSK	1697.50	H	364	165	2.93	1 / 23	23.54	26.47	0.443	30.00	-3.53
	$\pi/2$ BPSK	1702.50	H	364	165	2.93	1 / 1	23.56	26.49	0.446	30.00	-3.51
	$\pi/2$ BPSK	1707.50	H	364	165	2.93	1 / 12	23.65	26.58	0.454	30.00	-3.42
	QPSK	1697.50	H	364	165	2.93	1 / 1	23.43	26.36	0.433	30.00	-3.64
	QPSK	1702.50	H	364	165	2.93	1 / 12	23.27	26.20	0.417	30.00	-3.80
	QPSK	1707.50	H	364	165	2.93	1 / 23	23.43	26.36	0.432	30.00	-3.64
15 MHz	16-QAM	1697.50	H	364	165	2.93	1 / 1	22.41	25.34	0.342	30.00	-4.66
	QPSK (CP-OFDM)	1702.50	H	364	165	2.93	1 / 77	21.96	24.89	0.308	30.00	-5.11
	QPSK (WCP)	1702.50	H	357	170	2.93	1 / 77	23.53	26.46	0.443	30.00	-3.54

Table 7-318. EIRP Data (NR Band n70) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset	Page 219 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	1730.00	H	135	134	2.93	1 / 108	23.00	25.93	0.392	30.00	-4.07
	$\pi/2$ BPSK	1745.00	H	139	153	2.93	1 / 1	21.58	24.51	0.282	30.00	-5.49
	$\pi/2$ BPSK	1760.00	H	139	269	2.93	1 / 108	18.77	21.70	0.148	30.00	-8.30
	QPSK	1730.00	H	135	134	2.93	1 / 108	22.89	25.82	0.382	30.00	-4.18
	QPSK	1745.00	H	139	153	2.93	1 / 1	21.35	24.28	0.268	30.00	-5.72
	QPSK	1760.00	H	139	269	2.93	1 / 108	18.26	21.19	0.132	30.00	-8.81
35 MHz	16-QAM	1730.00	H	135	134	2.93	1 / 108	22.29	25.22	0.333	30.00	-4.78
	$\pi/2$ BPSK	1725.00	H	135	134	2.93	1 / 1	22.92	25.85	0.385	30.00	-4.15
	$\pi/2$ BPSK	1745.00	H	139	153	2.93	1 / 1	21.53	24.46	0.279	30.00	-5.54
	$\pi/2$ BPSK	1765.00	H	139	269	2.93	1 / 1	18.75	21.68	0.147	30.00	-8.32
	QPSK	1725.00	H	135	134	2.93	1 / 1	22.92	25.85	0.384	30.00	-4.15
	QPSK	1745.00	H	139	153	2.93	1 / 1	21.28	24.21	0.264	30.00	-5.79
30 MHz	16-QAM	1765.00	H	139	269	2.93	1 / 1	18.37	21.30	0.135	30.00	-8.70
	$\pi/2$ BPSK	1725.00	H	135	134	2.93	1 / 1	22.35	25.28	0.337	30.00	-4.72
	$\pi/2$ BPSK	1745.00	H	139	153	2.93	1 / 1	23.02	25.95	0.394	30.00	-4.05
	$\pi/2$ BPSK	1765.00	H	139	269	2.93	1 / 1	21.59	24.52	0.283	30.00	-5.48
	QPSK	1725.00	H	135	134	2.93	1 / 1	18.82	21.75	0.150	30.00	-8.25
	QPSK	1745.00	H	139	153	2.93	1 / 1	23.07	26.00	0.398	30.00	-4.00
25 MHz	16-QAM	1775.00	H	139	269	2.93	1 / 1	21.45	24.38	0.274	30.00	-5.62
	$\pi/2$ BPSK	1725.00	H	135	134	2.93	1 / 1	18.40	21.33	0.136	30.00	-8.67
	$\pi/2$ BPSK	1745.00	H	139	153	2.93	1 / 1	22.56	25.49	0.354	30.00	-4.51
	$\pi/2$ BPSK	1770.00	H	139	269	2.93	1 / 1	22.93	25.86	0.386	30.00	-4.14
	QPSK	1720.00	H	135	134	2.93	1 / 1	21.57	24.50	0.282	30.00	-5.50
	QPSK	1745.00	H	139	153	2.93	1 / 1	18.73	21.66	0.146	30.00	-8.34
20 MHz	16-QAM	1770.00	H	139	269	2.93	1 / 1	22.93	25.86	0.385	30.00	-4.14
	$\pi/2$ BPSK	1720.00	H	135	134	2.93	1 / 1	21.50	24.43	0.277	30.00	-5.57
	$\pi/2$ BPSK	1745.00	H	139	153	2.93	1 / 1	18.37	21.30	0.135	30.00	-8.70
	$\pi/2$ BPSK	1770.00	H	139	269	2.93	1 / 1	22.52	25.45	0.351	30.00	-4.55
	QPSK	1720.00	H	135	134	2.93	1 / 104	22.87	25.80	0.380	30.00	-4.20
	QPSK	1745.00	H	139	153	2.93	1 / 1	21.47	24.40	0.276	30.00	-5.60
15 MHz	16-QAM	1770.00	H	139	269	2.93	1 / 104	18.67	21.60	0.145	30.00	-8.40
	$\pi/2$ BPSK	1720.00	H	135	134	2.93	1 / 1	22.79	25.72	0.373	30.00	-4.28
	$\pi/2$ BPSK	1745.00	H	139	153	2.93	1 / 1	21.23	24.16	0.260	30.00	-5.84
	$\pi/2$ BPSK	1770.00	H	139	269	2.93	1 / 104	18.31	21.24	0.133	30.00	-8.76
	QPSK	1720.00	H	135	134	2.93	1 / 1	22.21	25.14	0.326	30.00	-4.86
	QPSK	1745.00	H	139	153	2.93	1 / 1	23.02	25.95	0.394	30.00	-4.05
10 MHz	16-QAM	1772.50	H	139	269	2.93	1 / 77	18.90	21.83	0.152	30.00	-8.17
	$\pi/2$ BPSK	1717.50	H	135	134	2.93	1 / 1	22.81	25.74	0.375	30.00	-4.26
	$\pi/2$ BPSK	1745.00	H	139	153	2.93	1 / 77	21.51	24.44	0.278	30.00	-5.56
	$\pi/2$ BPSK	1772.50	H	139	269	2.93	1 / 39	18.30	21.23	0.133	30.00	-8.77
	QPSK	1717.50	H	135	134	2.93	1 / 1	22.43	25.36	0.344	30.00	-4.64
	QPSK	1745.00	H	139	153	2.93	1 / 1	22.98	25.91	0.390	30.00	-4.09
5 MHz	16-QAM	1715.00	H	135	134	2.93	1 / 1	21.43	24.36	0.273	30.00	-5.64
	$\pi/2$ BPSK	1745.00	H	139	153	2.93	1 / 1	18.81	21.74	0.149	30.00	-8.26
	$\pi/2$ BPSK	1775.00	H	139	269	2.93	1 / 50	22.83	25.76	0.377	30.00	-4.24
	QPSK	1715.00	H	135	134	2.93	1 / 1	21.22	24.15	0.260	30.00	-5.85
	QPSK	1745.00	H	139	153	2.93	1 / 1	18.37	21.30	0.135	30.00	-8.70
	QPSK	1775.00	H	139	269	2.93	1 / 50	22.19	25.12	0.325	30.00	-4.88
40 MHz	16-QAM	1715.00	H	135	134	2.93	1 / 1	22.99	25.92	0.391	30.00	-4.08
	$\pi/2$ BPSK	1712.50	H	135	134	2.93	1 / 1	21.31	24.24	0.265	30.00	-5.76
	$\pi/2$ BPSK	1745.00	H	139	153	2.93	1 / 1	18.80	21.73	0.149	30.00	-8.27
	$\pi/2$ BPSK	1777.50	H	139	269	2.93	1 / 1	22.97	25.90	0.389	30.00	-4.10
	QPSK	1712.50	H	135	134	2.93	1 / 12	21.32	24.25	0.266	30.00	-5.75
	QPSK	1745.00	H	139	153	2.93	1 / 23	17.34	20.27	0.106	30.00	-9.73
40 MHz	16-QAM	1777.50	H	139	269	2.93	25 / 0	22.23	25.16	0.328	30.00	-4.84
	QPSK (CP-OFDM)	1730.00	H	135	128	2.93	1 / 108	22.01	24.94	0.312	30.00	-5.06
40 MHz	QPSK (WCP)	1730.00	H	144	49	2.93	1 / 108	22.82	25.75	0.376	30.00	-4.25

Table 7-319. EIRP Data (NR Band n66) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset	Page 220 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]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.00	H	124	228	-18.00	1 / 99	38.55	18.40	0.069	34.77	-16.37
	QPSK	680.50	H	124	230	-18.00	1 / 50	38.71	18.56	0.072	34.77	-16.21
	QPSK	688.00	H	128	248	-18.00	1 / 50	38.53	18.38	0.069	34.77	-16.39
	16-QAM	688.00	H	128	248	-18.00	1 / 50	38.09	17.94	0.062	34.77	-16.83
15 MHz	QPSK	670.50	H	124	228	-18.00	1 / 74	38.91	18.76	0.075	34.77	-16.01
	QPSK	680.50	H	124	230	-18.00	1 / 74	38.59	18.44	0.070	34.77	-16.34
	QPSK	690.50	H	128	248	-18.00	1 / 74	38.60	18.45	0.070	34.77	-16.32
	16-QAM	680.50	H	124	230	-18.00	1 / 37	38.28	18.13	0.065	34.77	-16.65
10 MHz	QPSK	668.00	H	124	228	-18.00	1 / 49	38.61	18.46	0.070	34.77	-16.31
	QPSK	680.50	H	124	230	-18.00	1 / 0	38.64	18.49	0.071	34.77	-16.28
	QPSK	693.00	H	128	248	-18.00	1 / 25	38.48	18.33	0.068	34.77	-16.45
	16-QAM	680.50	H	124	230	-18.00	1 / 0	38.13	17.98	0.063	34.77	-16.79
5 MHz	QPSK	665.50	H	124	228	-18.00	1 / 24	38.59	18.44	0.070	34.77	-16.33
	QPSK	680.50	H	124	230	-18.00	1 / 12	38.55	18.40	0.069	34.77	-16.37
	QPSK	695.50	H	128	248	-18.00	1 / 12	38.67	18.52	0.071	34.77	-16.25
	16-QAM	680.50	H	124	230	-18.00	1 / 24	37.92	17.77	0.060	34.77	-17.00
20 MHz	WCP	680.50	H	129	44	-18.00	1 / 50	38.57	18.42	0.070	34.77	-16.35

Table 7-320. ERP Data (LTE Band 71) – Ant2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.00	H	123	214	-19.00	1 / 0	39.08	17.93	0.062	34.77	-16.84
	QPSK	707.50	H	116	240	-19.00	1 / 49	39.39	18.24	0.067	34.77	-16.53
	QPSK	711.00	H	120	229	-19.00	1 / 49	39.61	18.46	0.070	34.77	-16.31
	16-QAM	711.00	H	120	229	-19.00	1 / 49	38.86	17.71	0.059	34.77	-17.06
5 MHz	QPSK	701.50	H	123	214	-19.00	1 / 12	39.15	18.00	0.063	34.77	-16.77
	QPSK	707.50	H	116	240	-19.00	1 / 12	39.34	18.19	0.066	34.77	-16.58
	QPSK	713.50	H	120	229	-19.00	1 / 12	39.73	18.58	0.072	34.77	-16.19
	16-QAM	713.50	H	120	229	-19.00	1 / 12	38.87	17.72	0.059	34.77	-17.05
3 MHz	QPSK	700.50	H	123	214	-19.00	1 / 7	38.98	17.83	0.061	34.77	-16.94
	QPSK	707.50	H	116	240	-19.00	1 / 7	39.40	18.25	0.067	34.77	-16.52
	QPSK	714.50	H	120	229	-19.00	1 / 7	39.61	18.46	0.070	34.77	-16.31
	16-QAM	707.50	H	116	240	-19.00	1 / 0	38.70	17.55	0.057	34.77	-17.22
1.4 MHz	QPSK	699.70	H	123	214	-19.00	1 / 3	38.96	17.81	0.060	34.77	-16.96
	QPSK	707.50	H	116	240	-19.00	1 / 3	39.29	18.14	0.065	34.77	-16.63
	QPSK	715.30	H	120	229	-19.00	1 / 0	39.54	18.39	0.069	34.77	-16.38
	16-QAM	715.30	H	120	229	-19.00	1 / 0	38.70	17.55	0.057	34.77	-17.23
10 MHz	Opposite Pol.	711.00	V	205	76	-19.00	1 / 49	32.30	11.15	0.013	34.77	-23.62
	WCP	711.00	H	234	262	-19.00	1 / 49	37.28	16.13	0.041	34.77	-18.64

Table 7-321. ERP Data (LTE Band 12) – Ant2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.00	H	107	171	-18.60	1 / 0	38.57	17.82	0.061	34.77	-16.95
	16-QAM	782.00	H	107	171	-18.60	1 / 0	37.80	17.05	0.051	34.77	-17.72
5 MHz	QPSK	779.50	H	107	171	-18.60	1 / 0	38.59	17.84	0.061	34.77	-16.93
	QPSK	782.00	H	107	171	-18.60	1 / 0	38.37	17.62	0.058	34.77	-17.16
	QPSK	784.50	H	107	171	-18.60	1 / 0	38.33	17.58	0.057	34.77	-17.19
	16-QAM	779.50	H	107	171	-18.60	1 / 0	38.03	17.28	0.053	34.77	-17.49
10 MHz	WCP	782.00	H	108	21	-18.60	1 / 0	37.92	17.17	0.052	34.77	-17.60

Table 7-322. ERP Data (LTE Band 13) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT								Approved by: Technical Manager			
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11/2023	EUT Type: Portable Handset								Page 221 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	1720.00	H	286	313	2.93	1 / 50	18.29	21.22	0.132	30.00	-8.78
	QPSK	1745.00	H	229	326	2.93	1 / 99	19.14	22.07	0.161	30.00	-7.93
	QPSK	1770.00	H	217	324	2.93	1 / 0	18.65	21.58	0.144	30.00	-8.42
	16-QAM	1745.00	H	229	326	2.93	1 / 99	18.08	21.01	0.126	30.00	-8.99
15 MHz	QPSK	1717.50	H	286	313	2.93	1 / 74	18.44	21.37	0.137	30.00	-8.63
	QPSK	1745.00	H	229	326	2.93	1 / 37	19.13	22.06	0.161	30.00	-7.94
	QPSK	1772.50	H	217	324	2.93	1 / 74	18.68	21.61	0.145	30.00	-8.39
	16-QAM	1745.00	H	229	326	2.93	1 / 37	17.97	20.90	0.123	30.00	-9.10
10 MHz	QPSK	1715.00	H	286	313	2.93	1 / 0	18.34	21.27	0.134	30.00	-8.73
	QPSK	1745.00	H	229	326	2.93	1 / 25	19.20	22.13	0.163	30.00	-7.87
	QPSK	1775.00	H	217	324	2.93	1 / 49	18.66	21.59	0.144	30.00	-8.41
	16-QAM	1745.00	H	229	326	2.93	1 / 25	18.08	21.01	0.126	30.00	-8.99
5 MHz	QPSK	1712.50	H	286	313	2.93	1 / 0	18.48	21.41	0.138	30.00	-8.59
	QPSK	1745.00	H	229	326	2.93	1 / 24	19.40	22.33	0.171	30.00	-7.67
	QPSK	1777.50	H	217	324	2.93	1 / 12	18.66	21.59	0.144	30.00	-8.41
	16-QAM	1745.00	H	229	326	2.93	1 / 0	17.97	20.90	0.123	30.00	-9.10
3 MHz	QPSK	1711.50	H	286	313	2.93	1 / 7	18.36	21.29	0.135	30.00	-8.71
	QPSK	1745.00	H	229	326	2.93	1 / 0	19.35	22.28	0.169	30.00	-7.72
	QPSK	1778.50	H	217	324	2.93	1 / 0	18.66	21.59	0.144	30.00	-8.41
	16-QAM	1745.00	H	229	326	2.93	1 / 14	18.11	21.04	0.127	30.00	-8.96
1.4 MHz	QPSK	1710.70	H	286	313	2.93	1 / 0	18.33	21.26	0.134	30.00	-8.74
	QPSK	1745.00	H	229	326	2.93	1 / 5	19.13	22.06	0.161	30.00	-7.94
	QPSK	1779.30	H	217	324	2.93	1 / 3	18.66	21.59	0.144	30.00	-8.41
	16-QAM	1745.00	H	229	326	2.93	1 / 5	18.01	20.94	0.124	30.00	-9.06
20 MHz	Opposite Pol.	1745.00	V	381	256	2.93	1 / 0	10.91	13.84	0.024	30.00	-16.16
	WCP	1745.00	H	262	354	2.93	1 / 50	14.23	17.16	0.052	30.00	-12.84

Table 7-323. EIRP Data (LTE Band 66/4) – Ant2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	673.00	H	102	261	2.99	1 / 104	18.99	19.83	0.096	34.77	-14.94
	$\pi/2$ BPSK	680.50	H	120	87	3.09	1 / 104	20.00	20.94	0.124	34.77	-13.84
	$\pi/2$ BPSK	688.00	H	145	257	3.08	1 / 53	19.78	20.71	0.118	34.77	-14.06
	QPSK	673.00	H	102	261	2.99	1 / 104	19.10	19.94	0.099	34.77	-14.83
	QPSK	680.50	H	120	87	3.09	1 / 104	19.98	20.92	0.123	34.77	-13.86
	QPSK	688.00	H	145	257	3.08	1 / 53	19.70	20.63	0.116	34.77	-14.14
	16-QAM	680.50	H	120	87	3.09	1 / 104	19.01	19.95	0.099	34.77	-14.83
15 MHz	$\pi/2$ BPSK	670.50	H	102	261	2.96	1 / 77	18.75	19.55	0.090	34.77	-15.22
	$\pi/2$ BPSK	680.50	H	120	87	3.09	1 / 77	19.93	20.87	0.122	34.77	-13.90
	$\pi/2$ BPSK	690.50	H	145	257	3.11	1 / 39	19.48	20.44	0.111	34.77	-14.33
	QPSK	670.50	H	102	261	2.96	1 / 77	18.65	19.46	0.088	34.77	-15.31
	QPSK	680.50	H	120	87	3.09	1 / 39	19.94	20.88	0.122	34.77	-13.89
	QPSK	690.50	H	145	257	3.11	1 / 77	19.71	20.67	0.117	34.77	-14.10
	16-QAM	680.50	H	120	87	3.09	1 / 77	19.08	20.02	0.100	34.77	-14.75
10 MHz	$\pi/2$ BPSK	668.00	H	102	261	2.92	1 / 50	18.85	19.62	0.092	34.77	-15.15
	$\pi/2$ BPSK	680.50	H	120	87	3.09	1 / 26	20.05	20.99	0.126	34.77	-13.78
	$\pi/2$ BPSK	693.00	H	145	257	3.14	1 / 50	19.84	20.83	0.121	34.77	-13.94
	QPSK	668.00	H	102	261	2.92	1 / 50	18.78	19.56	0.090	34.77	-15.22
	QPSK	680.50	H	120	87	3.09	1 / 1	20.03	20.96	0.125	34.77	-13.81
	QPSK	693.00	H	145	257	3.14	1 / 26	19.71	20.70	0.118	34.77	-14.07
	16-QAM	680.50	H	120	87	3.09	1 / 26	18.87	19.80	0.096	34.77	-14.97
5 MHz	$\pi/2$ BPSK	665.50	H	102	261	2.94	1 / 23	18.76	19.55	0.090	34.77	-15.22
	$\pi/2$ BPSK	680.50	H	120	87	3.09	1 / 12	20.12	21.05	0.127	34.77	-13.72
	$\pi/2$ BPSK	695.50	H	145	257	3.18	1 / 23	19.76	20.78	0.120	34.77	-13.99
	QPSK	665.50	H	102	261	2.94	1 / 12	18.87	19.66	0.093	34.77	-15.11
	QPSK	680.50	H	120	87	3.09	1 / 1	20.08	21.02	0.126	34.77	-13.75
	QPSK	695.50	H	145	257	3.18	1 / 12	19.70	20.72	0.118	34.77	-14.05
	16-QAM	680.50	H	120	87	3.09	1 / 1	18.97	19.91	0.098	34.77	-14.86
20 MHz	QPSK (CP-OFDM)	680.50	H	120	87	3.09	1 / 104	18.91	19.85	0.097	34.77	-14.93
	QPSK (WCP)	680.50	H	121	48	3.09	1 / 104	19.31	20.25	0.106	34.77	-14.53

Table 7-324. ERP Data (NR Band n71) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11/2023	EUT Type: Portable Handset		Page 222 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]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
15 MHz	$\pi/2$ BPSK	706.50	H	124	249	3.51	1 / 77	20.57	21.93	0.156	34.77	-12.84
	$\pi/2$ BPSK	707.50	H	122	253	3.52	1 / 77	20.39	21.76	0.150	34.77	-13.01
	$\pi/2$ BPSK	708.50	H	123	254	3.54	1 / 77	20.63	22.02	0.159	34.77	-12.76
	QPSK	706.50	H	124	249	3.51	1 / 77	20.35	21.71	0.148	34.77	-13.06
	QPSK	707.50	H	122	253	3.52	1 / 77	20.38	21.75	0.150	34.77	-13.02
	QPSK	708.50	H	123	254	3.54	1 / 77	20.51	21.90	0.155	34.77	-12.88
	16-QAM	708.50	H	123	254	3.54	1 / 77	19.31	20.70	0.117	34.77	-14.08
10 MHz	$\pi/2$ BPSK	704.00	H	124	249	3.48	1 / 50	20.71	22.04	0.160	34.77	-12.73
	$\pi/2$ BPSK	707.50	H	122	253	3.52	1 / 26	20.43	21.81	0.152	34.77	-12.97
	$\pi/2$ BPSK	711.00	H	123	254	3.57	1 / 26	20.56	21.97	0.158	34.77	-12.80
	QPSK	704.00	H	124	249	3.48	1 / 26	20.52	21.85	0.153	34.77	-12.92
	QPSK	707.50	H	122	253	3.52	1 / 1	20.45	21.82	0.152	34.77	-12.95
	QPSK	711.00	H	123	254	3.57	1 / 50	20.58	22.00	0.158	34.77	-12.77
	16-QAM	704.00	H	124	249	3.48	1 / 50	19.38	20.71	0.118	34.77	-14.06
5 MHz	$\pi/2$ BPSK	701.50	H	124	249	3.45	1 / 12	20.67	21.97	0.157	34.77	-12.80
	$\pi/2$ BPSK	707.50	H	122	253	3.52	1 / 23	20.54	21.91	0.155	34.77	-12.86
	$\pi/2$ BPSK	713.50	H	123	254	3.70	1 / 12	20.50	22.05	0.160	34.77	-12.73
	QPSK	701.50	H	124	249	3.45	1 / 12	20.52	21.82	0.152	34.77	-12.96
	QPSK	707.50	H	122	253	3.52	1 / 1	20.50	21.87	0.154	34.77	-12.90
	QPSK	713.50	H	123	254	3.70	1 / 12	20.57	22.12	0.163	34.77	-12.65
	16-QAM	701.50	H	124	249	3.45	1 / 23	19.37	20.67	0.117	34.77	-14.10
15 MHz	QPSK (CP-OFDM)	708.50	H	123	254	3.54	1 / 77	18.57	19.96	0.099	34.77	-14.82
	QPSK (WCP)	708.50	H	119	117	3.54	1 / 77	19.90	21.29	0.134	34.77	-13.49

Table 7-325. ERP Data (NR Band n12) – Ant2

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]
15 MHz	$\pi/2$ BPSK	1702.50	H	282	315	2.93	1 / 1	20.24	23.17	0.207	30.00	-6.83
	QPSK	1702.50	H	282	315	2.93	1 / 1	18.63	21.56	0.143	30.00	-8.44
	16-QAM	1702.50	H	282	315	2.93	1 / 1	17.85	20.78	0.120	30.00	-9.22
10 MHz	$\pi/2$ BPSK	1700.00	H	282	315	2.93	1 / 26	20.49	23.42	0.220	30.00	-6.58
	$\pi/2$ BPSK	1702.50	H	282	315	2.93	1 / 1	20.44	23.37	0.217	30.00	-6.63
	$\pi/2$ BPSK	1705.00	H	282	315	2.93	1 / 1	20.49	23.42	0.220	30.00	-6.58
	QPSK	1700.00	H	282	315	2.93	1 / 26	18.78	21.71	0.148	30.00	-8.29
	QPSK	1702.50	H	282	315	2.93	1 / 50	18.68	21.61	0.145	30.00	-8.39
	QPSK	1705.00	H	282	315	2.93	1 / 1	18.70	21.63	0.146	30.00	-8.37
	16-QAM	1705.00	H	282	315	2.93	1 / 1	17.83	20.76	0.119	30.00	-9.24
5 MHz	$\pi/2$ BPSK	1697.50	H	282	315	2.93	1 / 23	20.37	23.30	0.214	30.00	-6.70
	$\pi/2$ BPSK	1702.50	H	282	315	2.93	1 / 12	20.42	23.35	0.216	30.00	-6.65
	$\pi/2$ BPSK	1707.50	H	282	315	2.93	1 / 12	20.47	23.40	0.219	30.00	-6.60
	QPSK	1697.50	H	282	315	2.93	1 / 12	18.74	21.67	0.147	30.00	-8.33
	QPSK	1702.50	H	282	315	2.93	1 / 1	18.74	21.67	0.147	30.00	-8.33
	QPSK	1707.50	H	282	315	2.93	1 / 23	18.69	21.62	0.145	30.00	-8.38
15 MHz	16-QAM	1707.50	H	282	315	2.93	1 / 12	17.77	20.70	0.117	30.00	-9.30
	QPSK (CP-OFDM)	1702.50	H	282	315	2.93	1 / 1	18.96	21.89	0.155	30.00	-8.11
	QPSK (WCP)	1702.50	H	277	298	2.93	1 / 1	20.00	22.93	0.196	30.00	-7.07

Table 7-326. EIRP Data (NR Band n70) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset	Page 223 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	1730.00	H	364	317	2.93	1 / 1	19.96	22.89	0.195	30.00	-7.11
	$\pi/2$ BPSK	1745.00	H	262	320	2.93	1 / 108	20.70	23.63	0.231	30.00	-6.37
	$\pi/2$ BPSK	1760.00	H	262	330	2.93	1 / 108	20.15	23.08	0.203	30.00	-6.92
	QPSK	1730.00	H	364	317	2.93	1 / 108	19.83	22.76	0.189	30.00	-7.24
	QPSK	1745.00	H	262	320	2.93	1 / 108	20.51	23.44	0.221	30.00	-6.56
	QPSK	1760.00	H	262	330	2.93	1 / 108	20.39	23.32	0.215	30.00	-6.68
	16-QAM	1745.00	H	262	320	2.93	1 / 108	19.50	22.43	0.175	30.00	-7.57
35 MHz	16-QAM	1760.00	H	262	330	2.93	1 / 108	19.15	22.08	0.161	30.00	-7.92
	$\pi/2$ BPSK	1727.50	H	364	317	2.93	1 / 1	19.89	22.82	0.191	30.00	-7.18
	$\pi/2$ BPSK	1745.00	H	262	320	2.93	1 / 1	20.91	23.84	0.242	30.00	-6.16
	$\pi/2$ BPSK	1760.00	H	262	330	2.93	1 / 1	20.32	23.25	0.212	30.00	-6.75
	QPSK	1727.50	H	364	317	2.93	1 / 1	19.78	22.71	0.186	30.00	-7.29
	QPSK	1745.00	H	262	320	2.93	1 / 1	20.76	23.69	0.234	30.00	-6.31
	QPSK	1760.00	H	262	330	2.93	1 / 1	20.62	23.55	0.226	30.00	-6.45
30 MHz	16-QAM	1745.00	H	262	320	2.93	1 / 1	18.89	21.82	0.152	30.00	-8.18
	$\pi/2$ BPSK	1725.00	H	364	317	2.93	1 / 1	20.25	23.18	0.208	30.00	-6.82
	$\pi/2$ BPSK	1745.00	H	262	320	2.93	1 / 1	21.00	23.93	0.247	30.00	-6.07
	$\pi/2$ BPSK	1765.00	H	262	330	2.93	1 / 1	20.41	23.34	0.216	30.00	-6.66
	QPSK	1725.00	H	364	317	2.93	1 / 1	19.99	22.92	0.196	30.00	-7.08
	QPSK	1745.00	H	262	320	2.93	1 / 1	20.85	23.78	0.239	30.00	-6.22
	QPSK	1765.00	H	262	330	2.93	1 / 1	20.73	23.66	0.232	30.00	-6.34
25 MHz	16-QAM	1725.00	H	364	317	2.93	1 / 1	18.98	21.91	0.155	30.00	-8.09
	$\pi/2$ BPSK	1722.50	H	364	317	2.93	1 / 1	20.21	23.14	0.206	30.00	-6.86
	$\pi/2$ BPSK	1745.00	H	262	320	2.93	1 / 1	20.89	23.82	0.241	30.00	-6.18
	$\pi/2$ BPSK	1767.50	H	262	330	2.93	1 / 1	20.21	23.14	0.206	30.00	-6.86
	QPSK	1722.50	H	364	317	2.93	1 / 1	19.97	22.90	0.195	30.00	-7.10
	QPSK	1745.00	H	262	320	2.93	1 / 1	20.76	23.69	0.234	30.00	-6.31
	QPSK	1767.50	H	262	330	2.93	1 / 1	20.50	23.43	0.220	30.00	-6.57
20 MHz	16-QAM	1745.00	H	262	320	2.93	1 / 1	19.11	22.04	0.160	30.00	-7.96
	$\pi/2$ BPSK	1720.00	H	364	317	2.93	1 / 1	19.95	22.88	0.194	30.00	-7.12
	$\pi/2$ BPSK	1745.00	H	262	320	2.93	1 / 53	20.58	23.51	0.224	30.00	-6.49
	$\pi/2$ BPSK	1770.00	H	262	330	2.93	1 / 104	20.36	23.29	0.213	30.00	-6.71
	QPSK	1720.00	H	364	317	2.93	1 / 1	19.79	22.72	0.187	30.00	-7.28
	QPSK	1745.00	H	262	320	2.93	1 / 53	20.45	23.38	0.218	30.00	-6.62
	QPSK	1770.00	H	262	330	2.93	1 / 104	20.43	23.36	0.217	30.00	-6.64
15 MHz	16-QAM	1745.00	H	262	320	2.93	1 / 1	19.56	22.49	0.178	30.00	-7.51
	$\pi/2$ BPSK	1717.50	H	364	317	2.93	1 / 1	19.86	22.79	0.190	30.00	-7.21
	$\pi/2$ BPSK	1745.00	H	262	320	2.93	1 / 1	20.56	23.49	0.223	30.00	-6.51
	$\pi/2$ BPSK	1772.50	H	262	330	2.93	1 / 39	20.23	23.16	0.207	30.00	-6.84
	QPSK	1717.50	H	364	317	2.93	1 / 1	19.84	22.77	0.189	30.00	-7.23
	QPSK	1745.00	H	262	320	2.93	1 / 1	20.37	23.30	0.214	30.00	-6.70
	QPSK	1772.50	H	262	330	2.93	1 / 77	20.38	23.31	0.214	30.00	-6.69
10 MHz	16-QAM	1745.00	H	262	320	2.93	1 / 1	19.51	22.44	0.175	30.00	-7.56
	$\pi/2$ BPSK	1715.00	H	364	317	2.93	1 / 26	21.06	23.99	0.251	30.00	-6.01
	$\pi/2$ BPSK	1745.00	H	262	320	2.93	1 / 50	21.55	24.48	0.281	30.00	-5.52
	$\pi/2$ BPSK	1775.00	H	262	330	2.93	1 / 50	21.21	24.14	0.259	30.00	-5.86
	QPSK	1715.00	H	364	317	2.93	1 / 1	20.77	23.70	0.234	30.00	-6.30
	QPSK	1745.00	H	262	320	2.93	1 / 1	21.37	24.30	0.269	30.00	-5.70
	QPSK	1775.00	H	262	330	2.93	1 / 26	21.43	24.36	0.273	30.00	-5.64
5 MHz	16-QAM	1745.00	H	262	320	2.93	1 / 50	20.01	22.94	0.197	30.00	-7.06
	$\pi/2$ BPSK	1712.50	H	364	317	2.93	1 / 1	18.29	21.22	0.132	30.00	-8.78
	$\pi/2$ BPSK	1745.00	H	262	320	2.93	1 / 1	21.64	24.57	0.287	30.00	-5.43
	$\pi/2$ BPSK	1777.50	H	262	330	2.93	1 / 23	17.99	20.92	0.124	30.00	-9.08
	QPSK	1712.50	H	364	317	2.93	1 / 12	18.14	21.07	0.128	30.00	-8.93
	QPSK	1745.00	H	262	320	2.93	1 / 12	21.60	24.53	0.284	30.00	-5.47
	QPSK	1777.50	H	262	330	2.93	1 / 23	18.69	21.62	0.145	30.00	-8.38
40 MHz	16-QAM	1745.00	H	262	320	2.93	1 / 23	19.95	22.88	0.194	30.00	-7.12
	QPSK (CP-OFDM)	1745.00	H	262	320	2.93	1 / 108	19.43	22.36	0.172	30.00	-7.64
	QPSK (WCP)	1745.00	H	158	299	2.93	1 / 108	20.03	22.96	0.198	30.00	-7.04

Table 7-327. EIRP Data (NR Band n66) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11/2023	EUT Type: Portable Handset	Page 224 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: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Setup

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

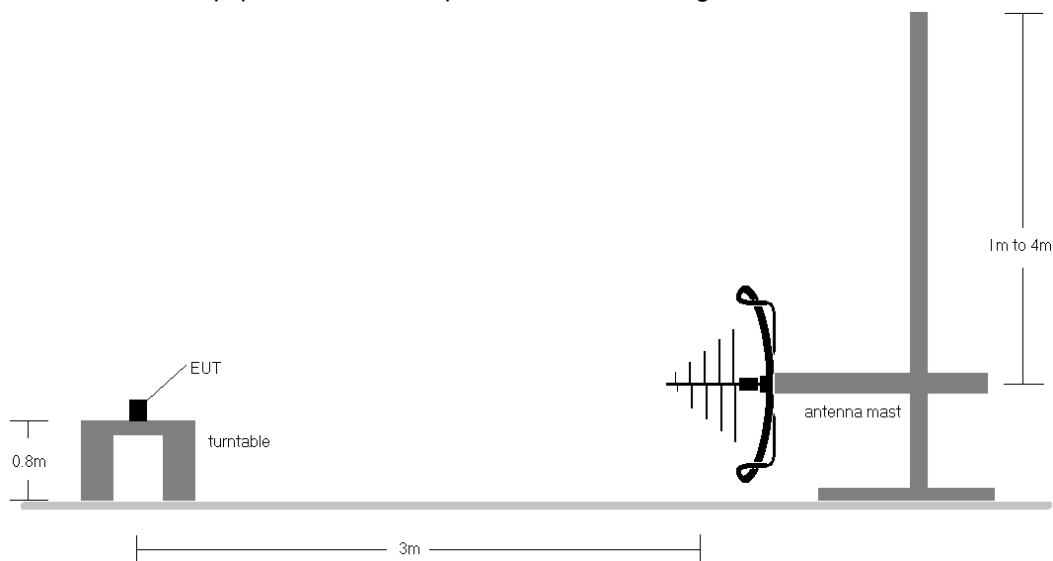


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

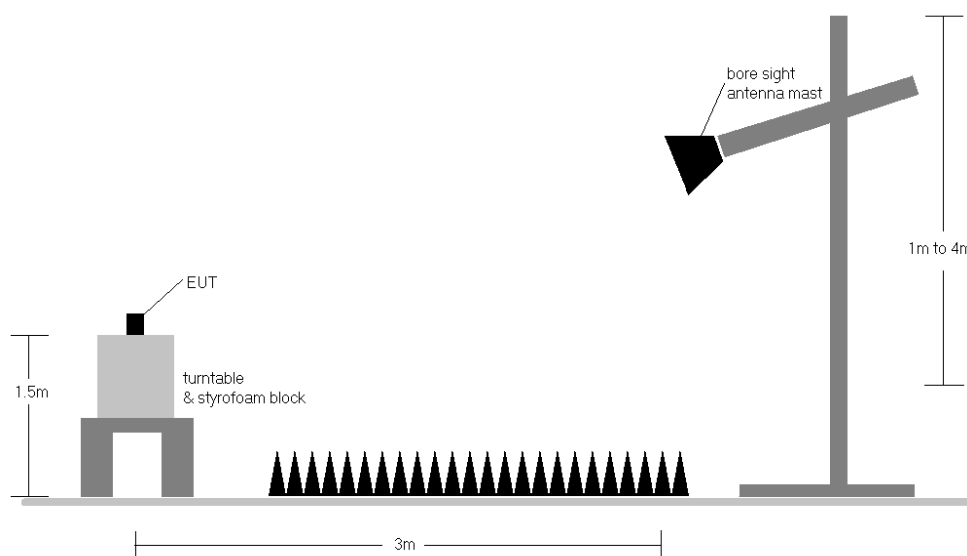


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

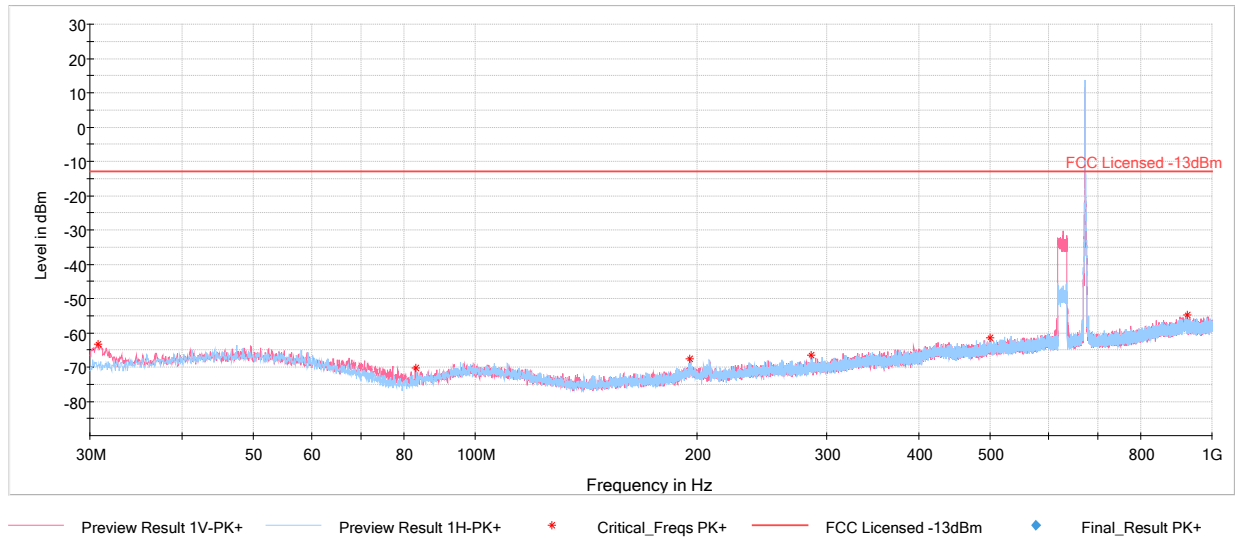
FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset	Page 226 of 275

Test Notes

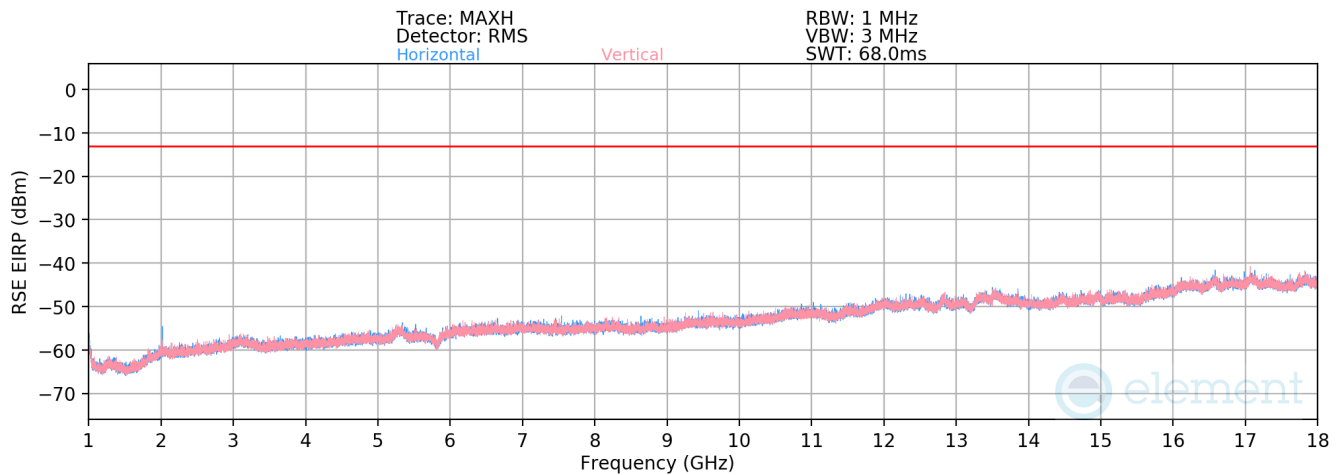
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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 emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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LTE Band 71 – Ant1



Plot 7-328. Radiated Spurious Plot (LTE Band 71) – Ant1



Plot 7-329. Radiated Spurious Plot (LTE Band 71) – Ant1

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	113	219	-74.47	-3.57	28.96	-66.30	-13.00	-53.30
2019.00	H	194	176	-68.83	-0.17	38.00	-57.26	-13.00	-44.26
2692.00	H	-	-	-77.33	0.66	30.33	-64.93	-13.00	-51.93
3365.00	H	-	-	-77.59	1.57	30.98	-64.28	-13.00	-51.28
4038.00	H	-	-	-78.43	3.08	31.65	-63.61	-13.00	-50.61

Table 7-23. Radiated Spurious Data (LTE Band 71 – Low Channel) – Ant1

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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	210	137	-74.32	-3.70	28.98	-66.28	-13.00	-53.28
2041.50	H	194	185	-69.84	-0.15	37.01	-58.24	-13.00	-45.24
2722.00	H	-	-	-77.39	0.84	30.45	-64.81	-13.00	-51.81
3402.50	H	-	-	-77.90	1.53	30.63	-64.62	-13.00	-51.62
4083.00	H	-	-	-78.46	3.21	31.75	-63.51	-13.00	-50.51

Table 7-24. Radiated Spurious Data (LTE Band 71 – Mid Channel) – Ant1

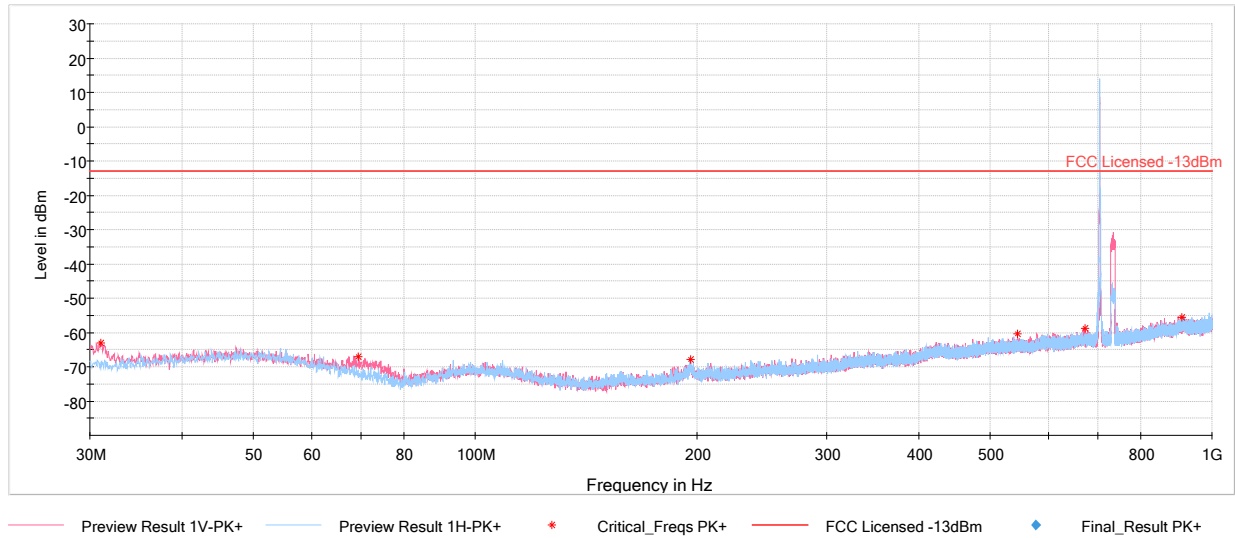
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

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	-	-	-76.76	-3.84	26.40	-68.86	-13.00	-55.86
2064.00	H	154	173	-70.61	-0.18	36.21	-59.05	-13.00	-46.05
2752.00	H	-	-	-77.22	1.08	30.86	-64.40	-13.00	-51.40
3440.00	H	-	-	-77.95	1.61	30.66	-64.60	-13.00	-51.60
4128.00	H	-	-	-78.24	3.19	31.95	-63.30	-13.00	-50.30

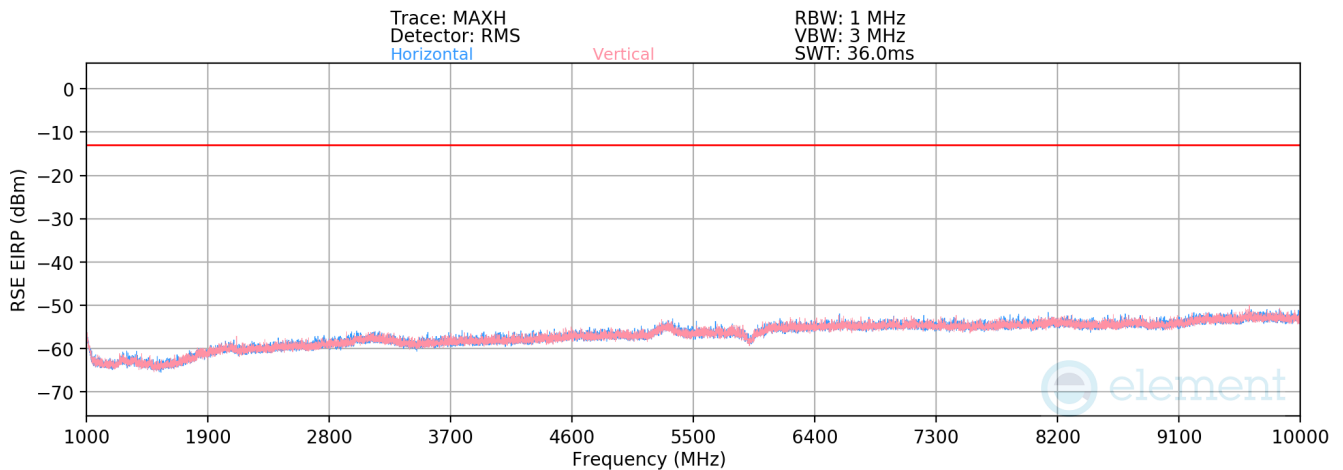
Table 7-25. Radiated Spurious Data (LTE Band 71 – High Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12 – Ant1



Plot 7-330. Radiated Spurious Plot (LTE Band 12) – Ant1



Plot 7-331. Radiated Spurious Plot (LTE Band 12) – Ant1

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	308	111	-73.88	-4.03	29.09	-66.17	-13.00	-53.17
2112.00	V	137	237	-73.47	-0.54	32.99	-62.27	-13.00	-49.27
2816.00	V	-	-	-77.07	1.14	31.07	-64.18	-13.00	-51.18
3520.00	V	-	-	-77.92	2.00	31.08	-64.18	-13.00	-51.18
4224.00	V	-	-	-78.58	3.40	31.82	-63.44	-13.00	-50.44

Table 7-26. Radiated Spurious Data (LTE Band 12 – Low Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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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	251	89	-74.81	-4.05	28.14	-67.12	-13.00	-54.12
2122.50	V	131	267	-74.14	-0.64	32.22	-63.04	-13.00	-50.04
2830.00	V	-	-	-77.11	1.06	30.95	-64.30	-13.00	-51.30
3537.50	V	-	-	-77.79	2.03	31.24	-64.02	-13.00	-51.02
4245.00	V	-	-	-78.74	3.44	31.70	-63.56	-13.00	-50.56

Table 7-27. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Ant1

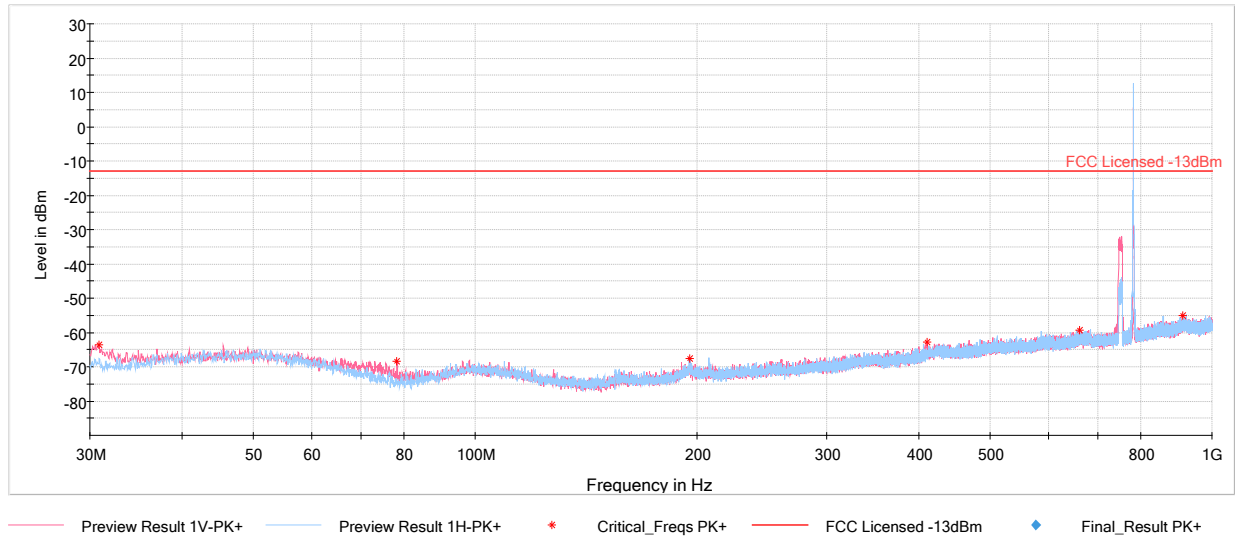
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

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	178	280	-75.58	-4.08	27.34	-67.91	-13.00	-54.91
2133.00	V	109	240	-74.47	-0.71	31.82	-63.43	-13.00	-50.43
2844.00	V	-	-	-77.28	1.02	30.74	-64.52	-13.00	-51.52
3555.00	V	-	-	-78.03	2.02	30.99	-64.27	-13.00	-51.27
4266.00	V	-	-	-78.85	3.41	31.56	-63.70	-13.00	-50.70

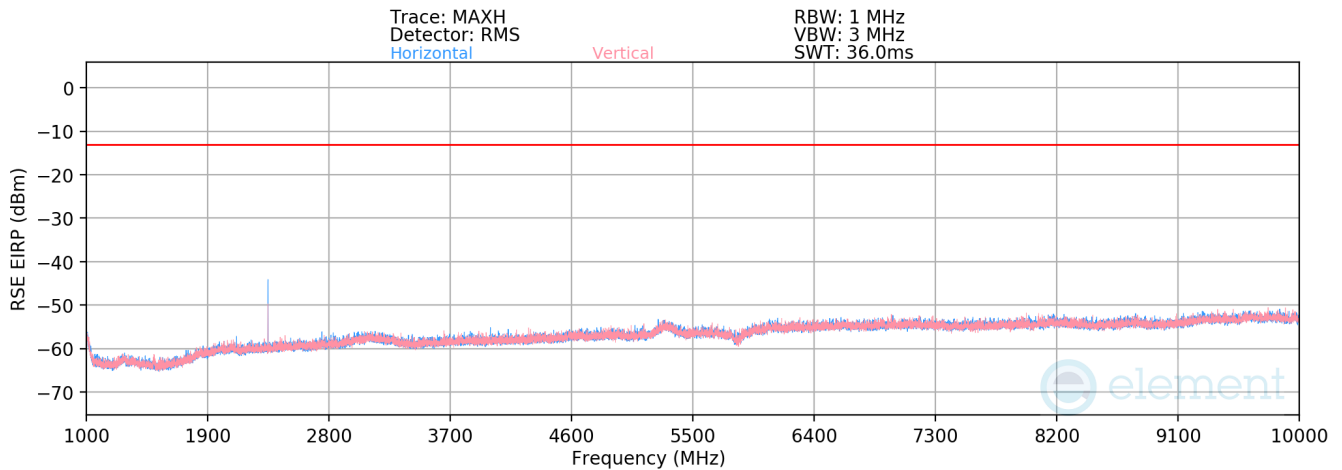
Table 7-28. Radiated Spurious Data (LTE Band 12 – High Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13 – Ant1



Plot 7-332. Radiated Spurious Plot (LTE Band 13) – Ant1



Plot 7-333. Radiated Spurious Plot (LTE Band 13) – Ant1

Bandwidth (MHz):	5
Frequency (MHz):	779.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.00	H	218	142	-75.57	-4.64	26.79	-68.46	-40.00	-28.46
2338.50	H	153	243	-63.89	-0.32	42.79	-52.47	-13.00	-39.47
3118.00	H	-	-	-77.34	2.55	32.21	-63.05	-13.00	-50.05
3897.50	H	-	-	-78.33	2.67	31.34	-63.92	-13.00	-50.92
4677.00	H	-	-	-78.99	4.54	32.55	-62.71	-13.00	-49.71

Table 7-29. Radiated Spurious Data (LTE Band 13 – Low Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	782
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	H	321	196	-74.43	-4.61	27.96	-67.30	-40.00	-27.30
2346.00	H	109	252	-58.84	-0.36	47.80	-47.46	-13.00	-34.46
3128.00	H	-	-	-77.60	2.50	31.90	-63.36	-13.00	-50.36
3910.00	H	-	-	-78.11	2.67	31.56	-63.70	-13.00	-50.70
4692.00	H	-	-	-78.97	4.38	32.41	-62.85	-13.00	-49.85

Table 7-30. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Ant1

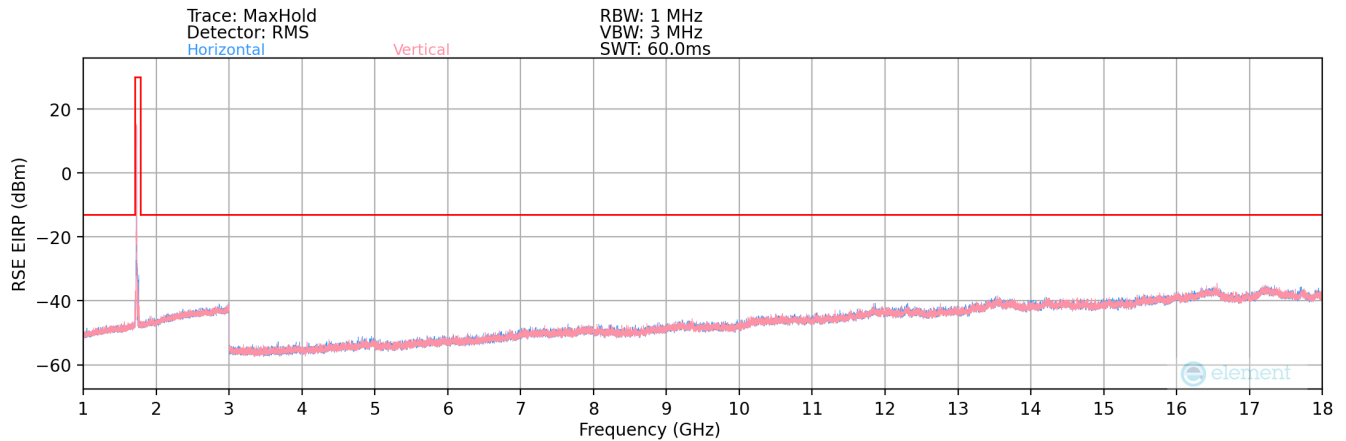
Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.00	H	125	176	-75.58	-4.59	26.83	-68.43	-40.00	-28.43
2353.50	H	178	252	-63.94	-0.35	42.71	-52.55	-13.00	-39.55
3138.00	H	-	-	-77.54	2.46	31.92	-63.33	-13.00	-50.33
3922.50	H	-	-	-78.20	2.69	31.49	-63.77	-13.00	-50.77
4707.00	H	-	-	-79.01	4.45	32.44	-62.82	-13.00	-49.82

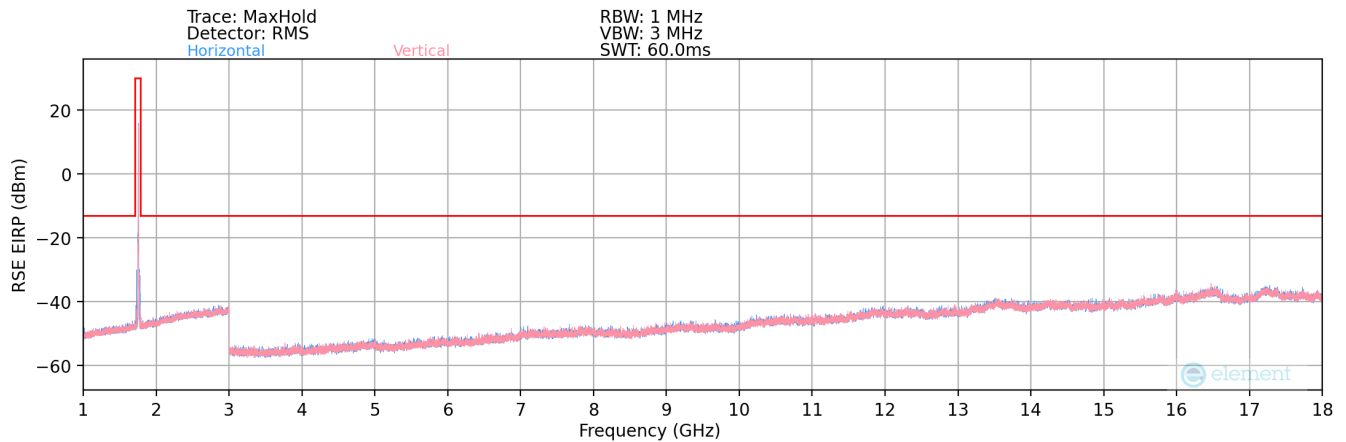
Table 7-31. Radiated Spurious Data (LTE Band 13 – High Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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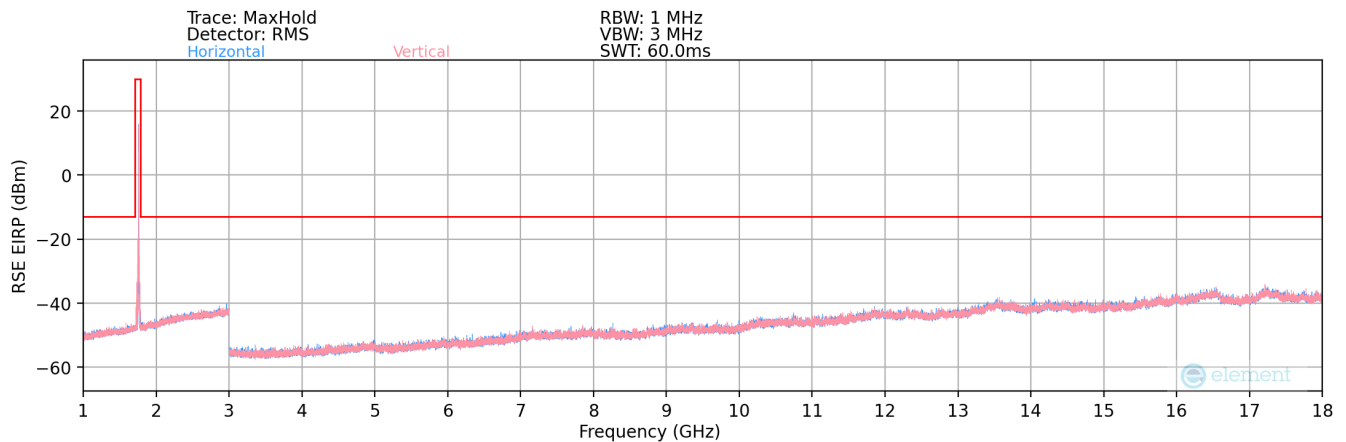
Uplink CA LTE Band 66B/C – Ant1



Plot 7-334. Radiated Spurious Plot (ULCA LTE Band 66 – Ant1 – Low Channel)



Plot 7-335. Radiated Spurious Plot (ULCA LTE Band 66 – Ant1 – Mid Channel)



Plot 7-336. Radiated Spurious Plot (ULCA LTE Band 66 – Ant1 – High Channel)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	H	-	-	-79.42	3.25	30.83	-64.42	-13.00	-51.42
5160.00	H	-	-	-81.49	6.84	32.35	-62.90	-13.00	-49.90
6880.00	H	-	-	-82.07	9.12	34.05	-61.21	-13.00	-48.21

7-32. Radiated Spurious Data (ULCA LTE66 – Low Channel – Ant1)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	-	-	-79.96	3.54	30.58	-64.67	-13.00	-51.67
5235.00	H	-	-	-82.10	6.77	31.67	-63.59	-13.00	-50.59
6980.00	H	-	-	-82.73	9.10	33.37	-61.89	-13.00	-48.89

Table 7-33. Radiated Spurious Data (ULCA LTE66 – Mid Channel – Ant1)

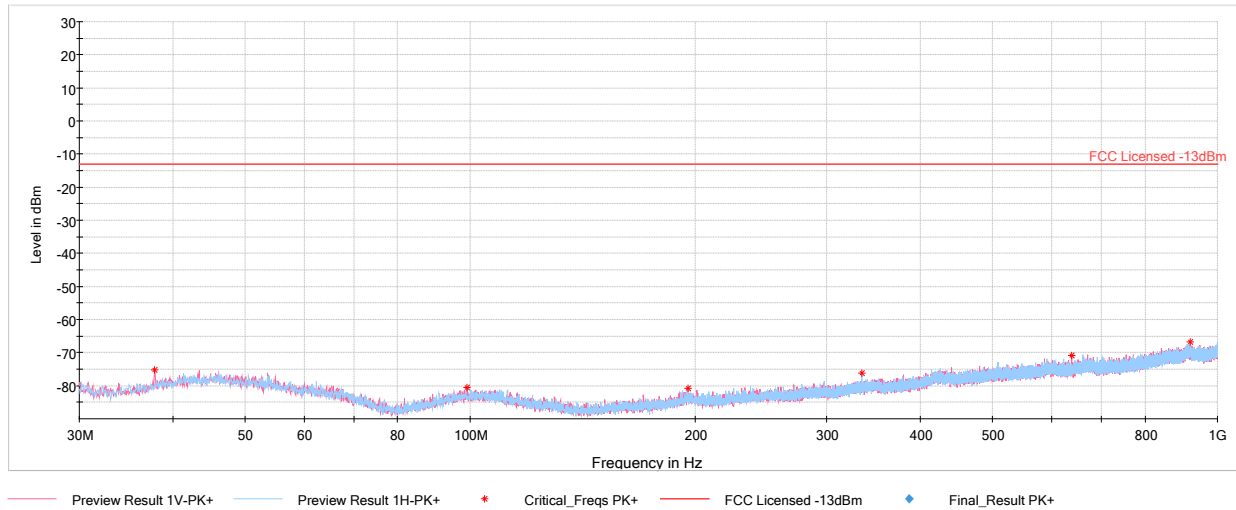
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	H	-	-	-79.95	3.59	30.64	-64.61	-13.00	-51.61
5310.00	H	-	-	-82.08	6.96	31.88	-63.38	-13.00	-50.38
7080.00	H	-	-	-82.83	9.30	33.47	-61.78	-13.00	-48.78

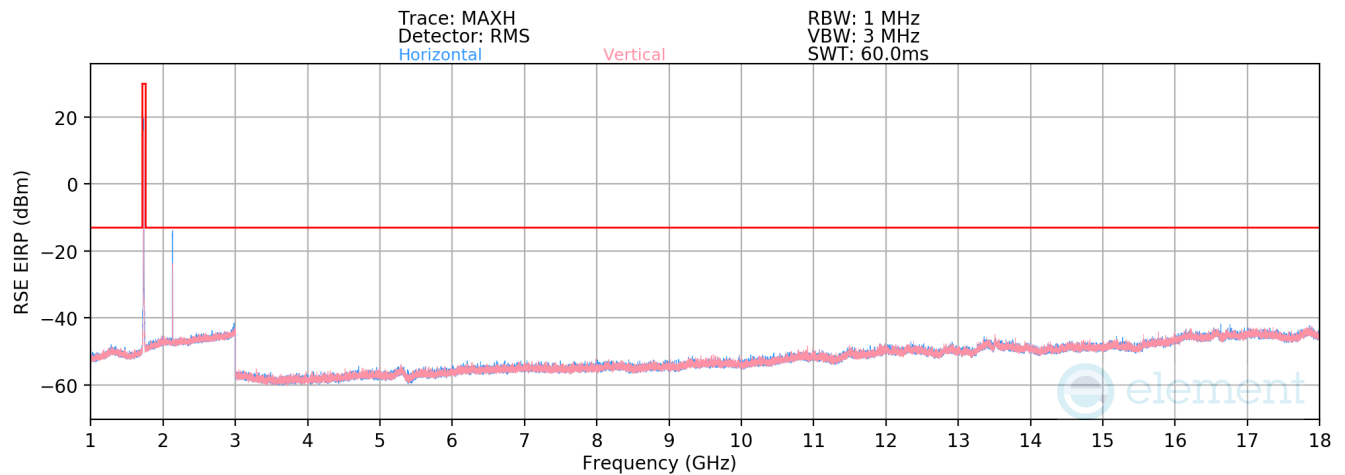
Table 7-34. Radiated Spurious Data (ULCA LTE66 – High Channel – Ant1)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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WCDMA AWS – Ant1



Plot 7-337. Radiated Spurious Plot (WCDMA AWS) – Ant1



Plot 7-338. Radiated Spurious Plot (WCDMA AWS) – Ant1

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	-	-	-78.48	2.85	31.37	-63.89	-13.00	-50.89
5137.20	H	-	-	-79.90	5.38	32.48	-62.78	-13.00	-49.78
6849.60	H	-	-	-80.54	7.99	34.45	-60.81	-13.00	-47.81

7-35. Radiated Spurious Data (WCDMA AWS – Low Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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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	-	-	-77.96	2.56	31.60	-63.66	-13.00	-50.66
5197.80	H	-	-	-79.90	5.78	32.88	-62.38	-13.00	-49.38
6930.40	H	-	-	-80.05	7.84	34.79	-60.47	-13.00	-47.47

Table 7-36. Radiated Spurious Data (WCDMA AWS – Mid Channel) – Ant1

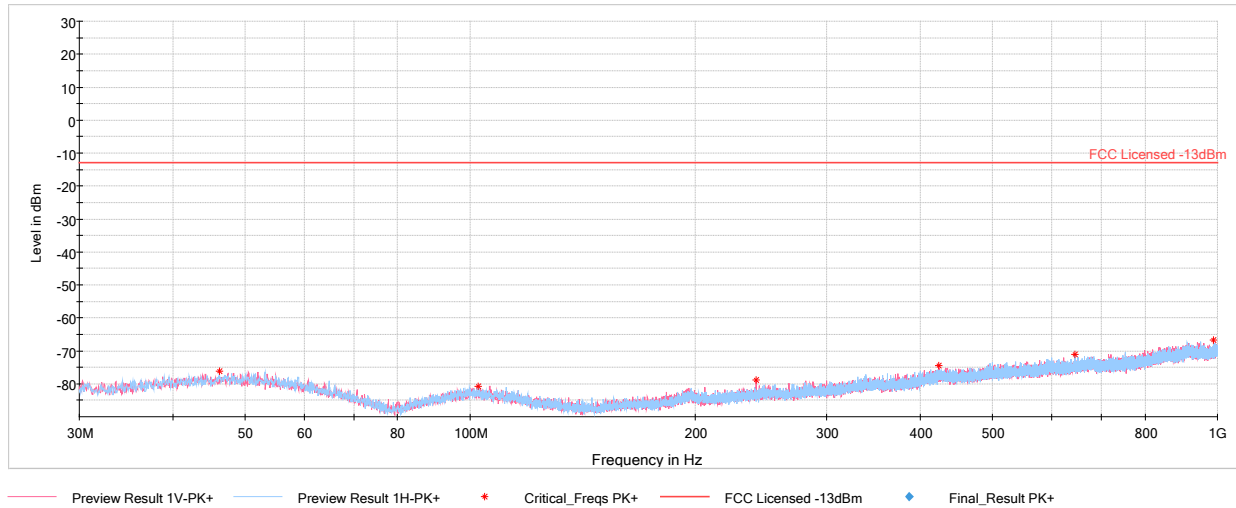
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

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	-	-	-77.72	2.34	31.62	-63.63	-13.00	-50.63
5257.80	H	-	-	-79.89	6.75	33.86	-61.40	-13.00	-48.40
7010.40	H	-	-	-80.09	7.82	34.73	-60.53	-13.00	-47.53

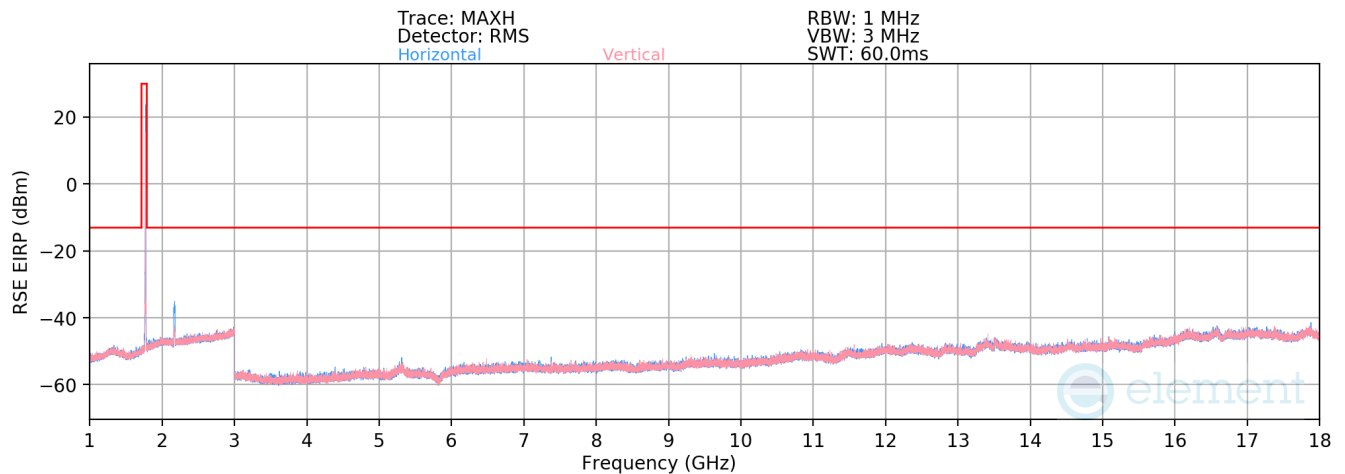
Table 7-37. Radiated Spurious Data (WCDMA AWS – High Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – Ant1



Plot 7-339. Radiated Spurious Plot (LTE Band 66/4) – Ant1



Plot 7-340. Radiated Spurious Plot (LTE Band 66/4) – Ant1

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	-	-	-78.36	2.75	31.39	-63.86	-13.00	-50.86
5160.00	H	106	139	-77.71	5.46	34.75	-60.51	-13.00	-47.51
6880.00	H	-	-	-80.70	8.21	34.51	-60.75	-13.00	-47.75
8600.00	H	-	-	-80.52	8.01	34.49	-60.77	-13.00	-47.77
10320.00	H	-	-	-81.12	10.63	36.51	-58.74	-13.00	-45.74

Table 7-38. Radiated Spurious Data (LTE Band 66/4 – Low Channel) – Ant1

FCC ID: A3LSMS928U	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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	-	-	-78.13	2.44	31.31	-63.95	-13.00	-50.95
5235.00	H	129	148	-77.67	6.30	35.63	-59.63	-13.00	-46.63
6980.00	H	-	-	-80.33	7.78	34.45	-60.80	-13.00	-47.80
8725.00	H	-	-	-80.90	8.66	34.76	-60.50	-13.00	-47.50
10470.00	H	-	-	-81.59	11.03	36.44	-58.82	-13.00	-45.82

Table 7-39. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant1

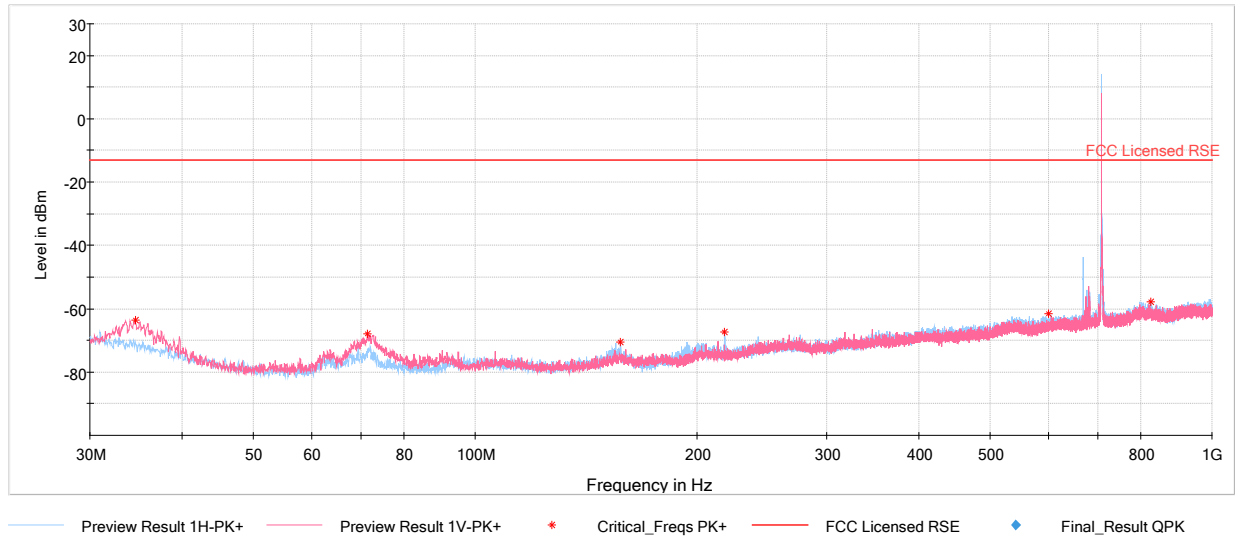
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

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	-	-	-77.83	2.01	31.18	-64.08	-13.00	-51.08
5310.00	H	106	154	-76.29	7.24	37.95	-57.31	-13.00	-44.31
7080.00	H	-	-	-80.43	7.98	34.55	-60.71	-13.00	-47.71
8850.00	H	-	-	-80.46	8.58	35.12	-60.14	-13.00	-47.14
10620.00	H	-	-	-81.57	11.57	37.00	-58.25	-13.00	-45.25

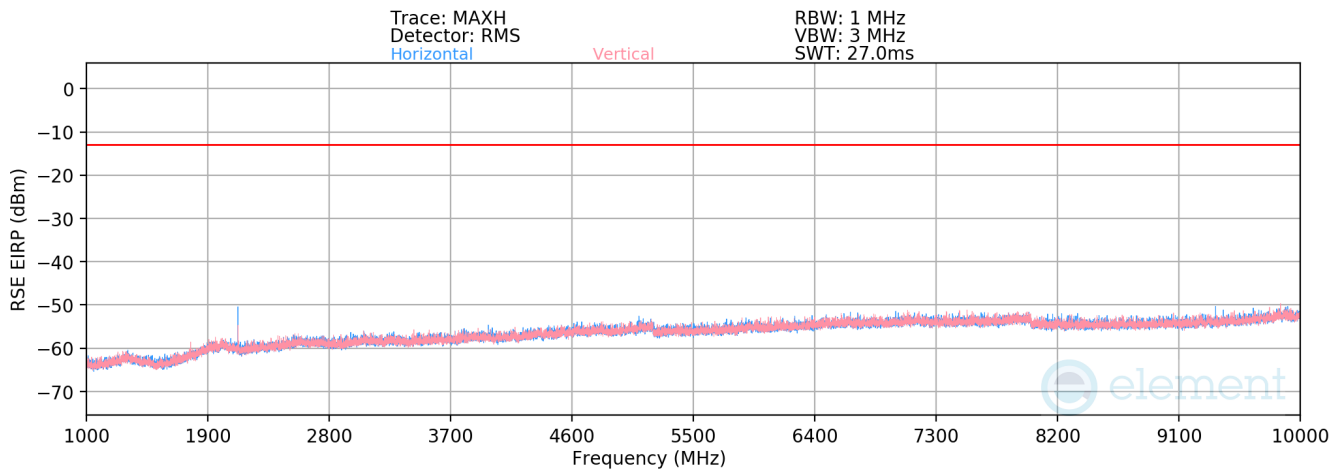
Table 7-40. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset	Page 239 of 275

NR Band n12 – Ant1



Plot 7-341. Radiated Spurious Plot (NR Band n12) – Ant1



Plot 7-342. Radiated Spurious Plot (NR Band n12) – Ant1

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.00	H	-	-	-78.19	-3.67	25.14	-70.12	-13.00	-57.12
2119.50	H	127	95	-71.57	-0.28	35.15	-60.11	-13.00	-47.11
2826.00	H	-	-	-79.04	1.25	29.21	-66.05	-13.00	-53.05
3532.50	H	-	-	-79.84	3.14	30.30	-64.95	-13.00	-51.95

Table 7-41. Radiated Spurious Data (NR Band n12 – Low Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11/2023	EUT Type: Portable Handset		Page 240 of 275

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	H	102	107	-75.91	-3.67	27.42	-67.84	-13.00	-54.84
2122.50	H	143	153	-70.93	-0.31	35.76	-59.50	-13.00	-46.50
2830.00	H	-	-	-79.10	1.25	29.15	-66.11	-13.00	-53.11
3537.50	H	-	-	-79.76	3.17	30.41	-64.85	-13.00	-51.85

Table 7-42. Radiated Spurious Data (NR Band n12 – Mid Channel) – Ant1

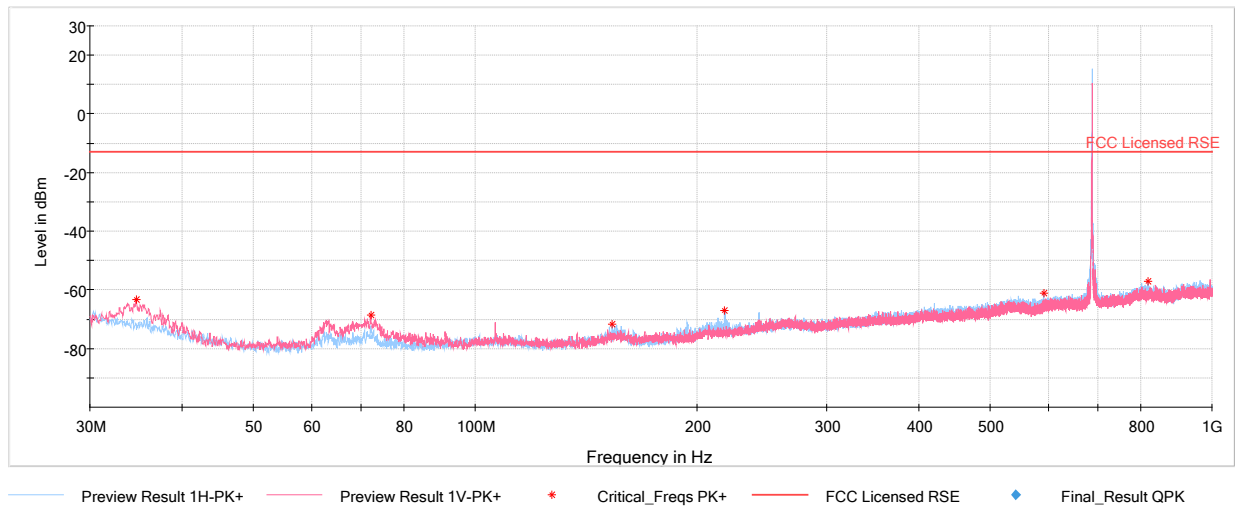
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 39
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.00	H	102	126	-75.62	-3.67	27.71	-67.55	-13.00	-54.55
2125.50	H	127	91	-66.44	-0.33	40.23	-55.03	-13.00	-42.03
2834.00	H	-	-	-79.08	1.25	29.17	-66.09	-13.00	-53.09
3542.50	H	-	-	-79.75	3.19	30.44	-64.82	-13.00	-51.82

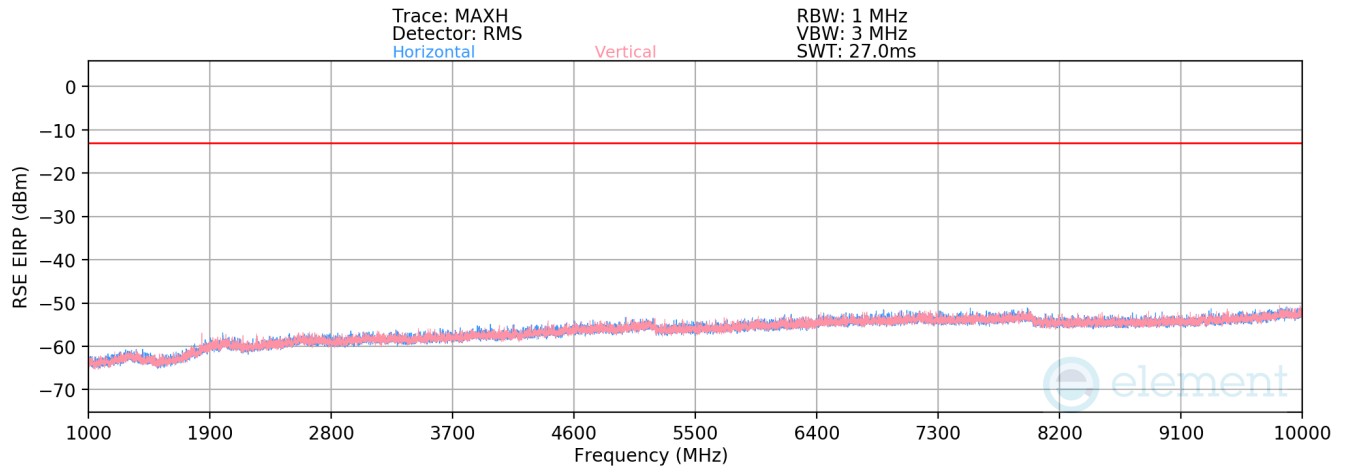
Table 7-43. Radiated Spurious Data (NR Band n12 – High Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71 – Ant1



Plot 7-343. Radiated Spurious Plot (NR Band n71) – Ant1



Plot 7-344. Radiated Spurious Plot (NR Band n71) – Ant1

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	H	119	179	-77.47	-3.02	26.51	-68.75	-13.00	-55.75
2019.00	H	123	120	-76.14	0.48	31.34	-63.91	-13.00	-50.91
2692.00	H	-	-	-78.64	1.58	29.94	-65.32	-13.00	-52.32
3365.00	H	-	-	-79.54	2.47	29.93	-65.33	-13.00	-52.33
4038.00	H	-	-	-79.92	4.11	31.19	-64.06	-13.00	-51.06

Table 7-44. Radiated Spurious Data (NR Band n71 – Low Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset		Page 242 of 275

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	H	107	191	-77.10	-3.16	26.74	-68.52	-13.00	-55.52
2041.50	H	229	142	-77.09	0.45	30.36	-64.90	-13.00	-51.90
2722.00	H	-	-	-78.74	1.63	29.89	-65.37	-13.00	-52.37
3402.50	H	-	-	-79.25	2.61	30.36	-64.90	-13.00	-51.90
4083.00	H	-	-	-80.09	4.15	31.06	-64.20	-13.00	-51.20

Table 7-45. Radiated Spurious Data (NR Band n71 – Mid Channel) – Ant1

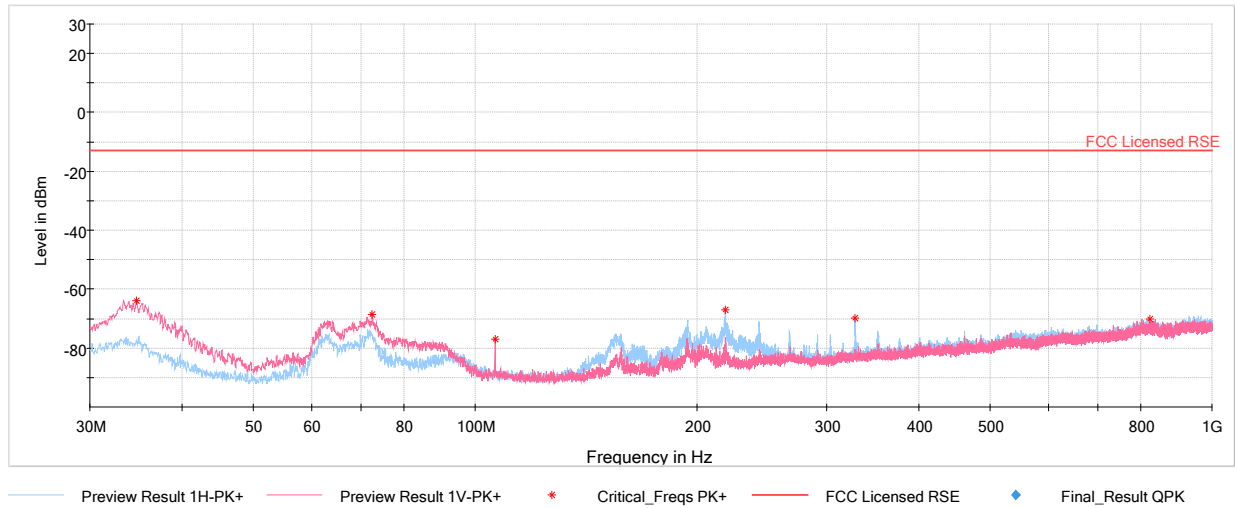
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 53
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	H	-	-	-78.13	-3.33	25.54	-69.72	-13.00	-56.72
2064.00	H	262	153	-75.28	0.25	31.97	-63.28	-13.00	-50.28
2752.00	H	-	-	-79.13	1.65	29.52	-65.73	-13.00	-52.73
3440.00	H	-	-	-79.84	2.70	29.86	-65.40	-13.00	-52.40

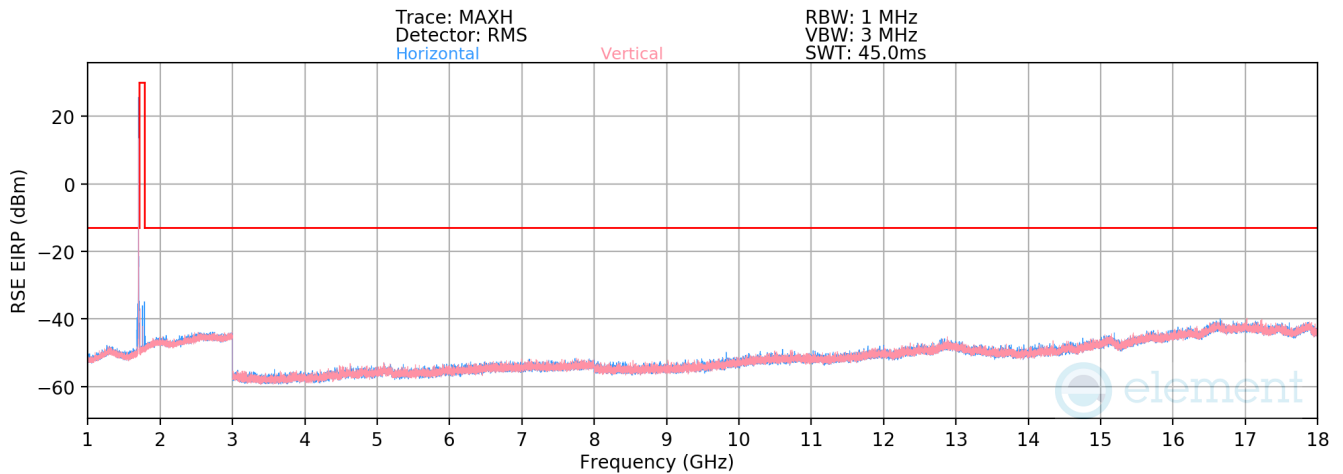
Table 7-46. Radiated Spurious Data (NR Band n71 – High Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70 – Ant1



Plot 7-345. Radiated Spurious Plot (NR Band n70) – Ant1



Plot 7-346. Radiated Spurious Plot (NR Band n70) – Ant1

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 39
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.00	H	-	-	-79.27	3.22	30.95	-64.31	-13.00	-51.31
5107.50	H	-	-	-81.03	6.75	32.72	-62.53	-13.00	-49.53
6810.00	H	-	-	-82.23	9.01	33.78	-61.47	-13.00	-48.47

Table 7-47. Radiated Spurious Data (NR Band n70 – Low Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 39
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.00	H	-	-	-79.23	3.22	30.99	-64.27	-13.00	-51.27
5107.50	H	-	-	-81.15	6.75	32.60	-62.65	-13.00	-49.65
6810.00	H	-	-	-82.03	9.01	33.98	-61.27	-13.00	-48.27

Table 7-48. Radiated Spurious Data (NR Band n70 – Mid Channel) – Ant1

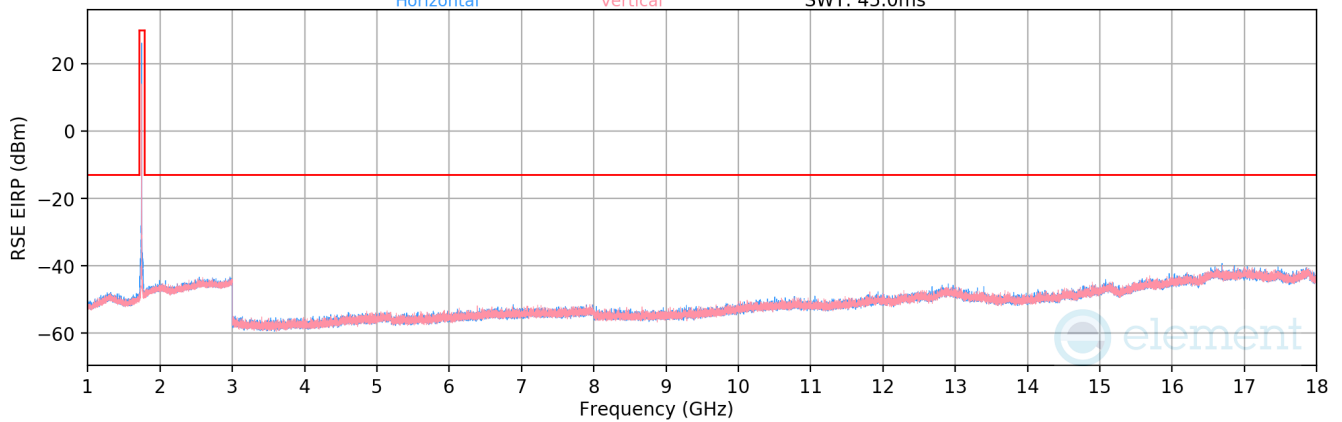
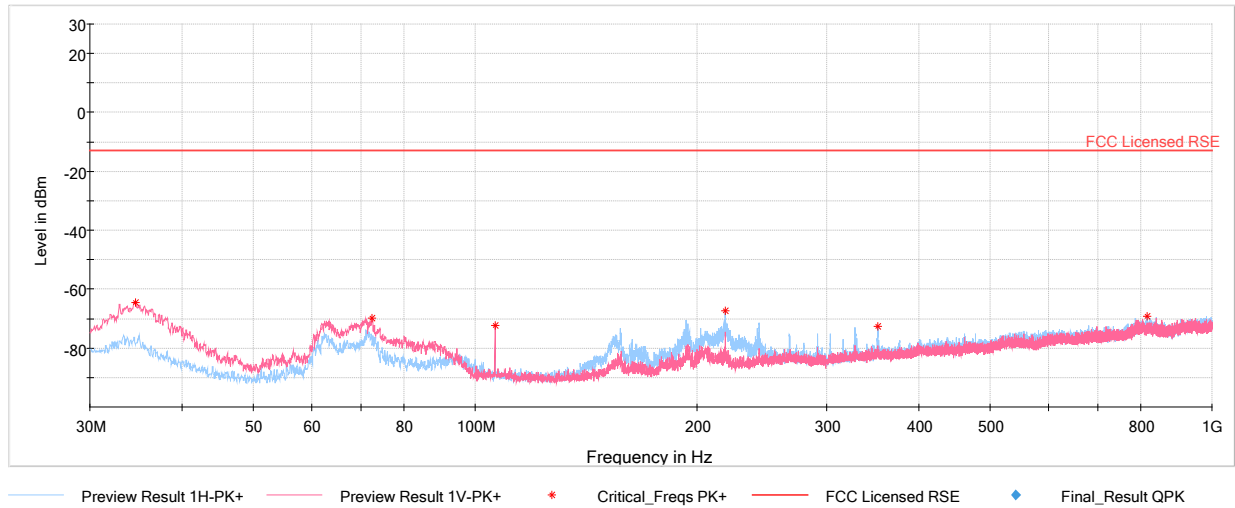
Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 39
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.00	H	-	-	-79.37	3.22	30.85	-64.41	-13.00	-51.41
5107.50	H	-	-	-81.07	6.75	32.68	-62.57	-13.00	-49.57
6810.00	H	-	-	-82.07	9.01	33.94	-61.31	-13.00	-48.31

Table 7-49. Radiated Spurious Data (NR Band n70 – High Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – Ant1



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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.00	H	-	-	-79.34	3.39	31.05	-64.21	-13.00	-51.21
5190.00	V	343	320	-79.53	6.92	34.39	-60.87	-13.00	-47.87
6920.00	H	-	-	-82.19	9.18	33.99	-61.27	-13.00	-48.27
8650.00	H	-	-	-82.87	9.96	34.09	-61.17	-13.00	-48.17
10380.00	H	-	-	-83.10	12.10	36.00	-59.26	-13.00	-46.26

Table 7-50. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11/2023	EUT Type: Portable Handset		Page 246 of 275

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	-	-	-79.36	3.54	31.18	-64.07	-13.00	-51.07
5235.00	V	356	175	-80.60	6.77	33.17	-62.09	-13.00	-49.09
6980.00	H	-	-	-82.17	9.10	33.93	-61.33	-13.00	-48.33
8725.00	H	-	-	-82.92	9.48	33.56	-61.70	-13.00	-48.70
10470.00	H	-	-	-83.37	12.29	35.92	-59.34	-13.00	-46.34

Table 7-51. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant1

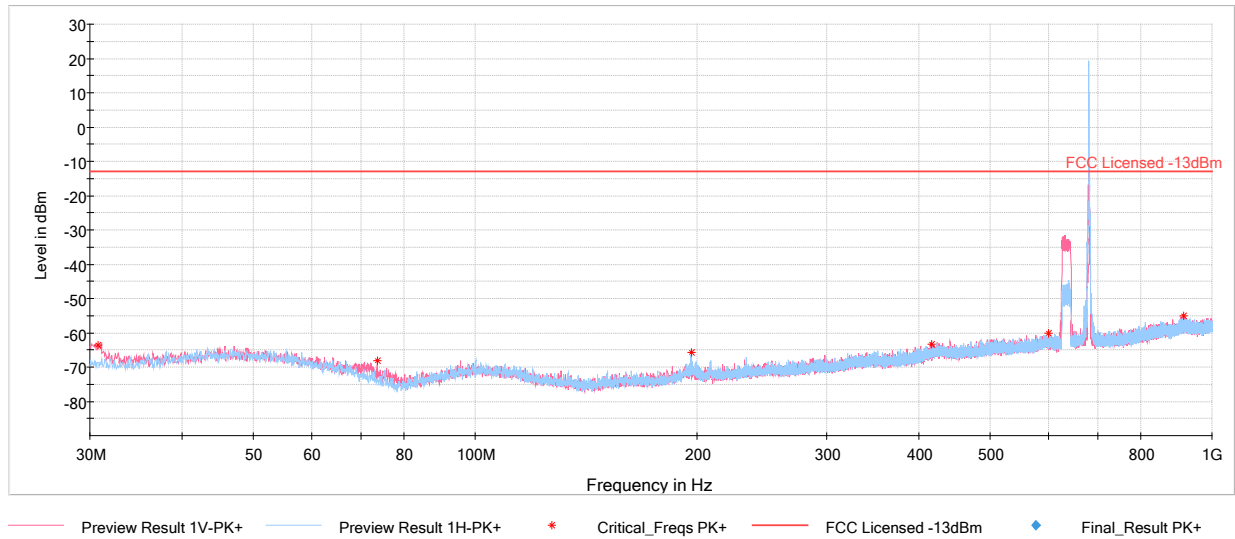
Bandwidth (MHz):	40
Frequency (MHz):	1760
RB / Offset:	1 / 108
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.00	H	-	-	-79.59	3.60	31.01	-64.25	-13.00	-51.25
5280.00	V	106	357	-78.82	6.90	35.08	-60.17	-13.00	-47.17
7040.00	H	-	-	-82.16	9.13	33.97	-61.29	-13.00	-48.29
8800.00	H	-	-	-82.86	9.48	33.62	-61.63	-13.00	-48.63
10560.00	H	-	-	-83.07	12.49	36.42	-58.83	-13.00	-45.83

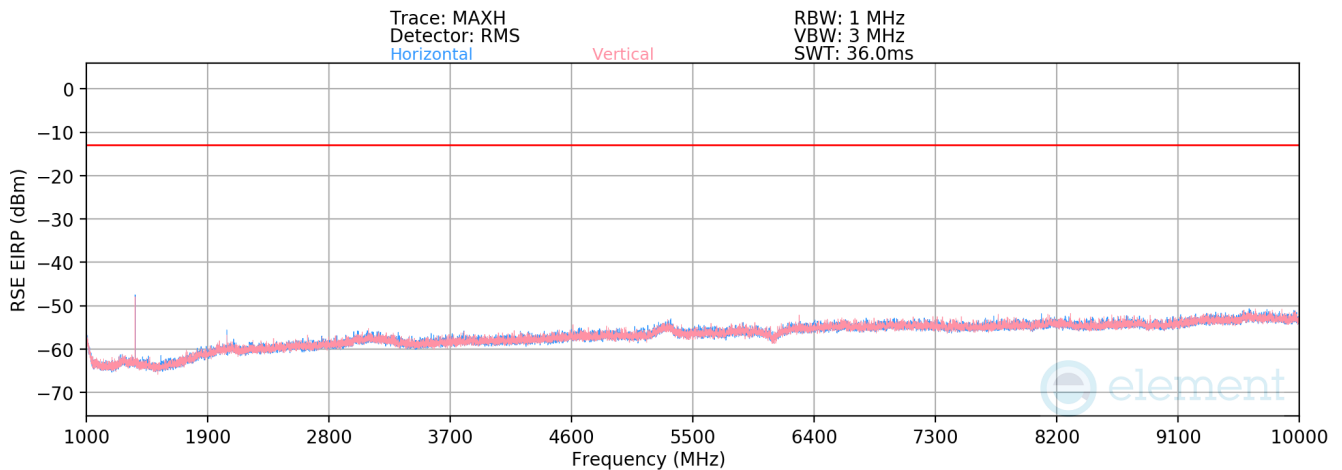
Table 7-52. Radiated Spurious Data (NR Band n66 – High Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 71 – Ant2



Plot 7-349. Radiated Spurious Plot (LTE Band 71) – Ant2



Plot 7-350. Radiated Spurious Plot (LTE Band 71) – Ant2

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	V	333	258	-60.97	-3.57	42.46	-52.80	-13.00	-39.80
2019.00	H	174	222	-73.40	-0.17	33.43	-61.83	-13.00	-48.83
2692.00	H	-	-	-77.19	0.66	30.47	-64.79	-13.00	-51.79
3365.00	H	-	-	-77.67	1.57	30.90	-64.36	-13.00	-51.36
4038.00	H	-	-	-78.24	3.08	31.84	-63.42	-13.00	-50.42

Table 7-53. Radiated Spurious Data (LTE Band 71 – Low Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
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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	V	110	312	-60.37	-3.70	42.93	-52.33	-13.00	-39.33
2041.50	H	125	228	-73.38	-0.15	33.47	-61.78	-13.00	-48.78
2722.00	H	-	-	-77.29	0.84	30.55	-64.71	-13.00	-51.71
3402.50	H	-	-	-77.83	1.53	30.70	-64.55	-13.00	-51.55
4083.00	H	-	-	-78.08	3.21	32.13	-63.13	-13.00	-50.13

Table 7-54. Radiated Spurious Data (LTE Band 71 – Mid Channel) – Ant2

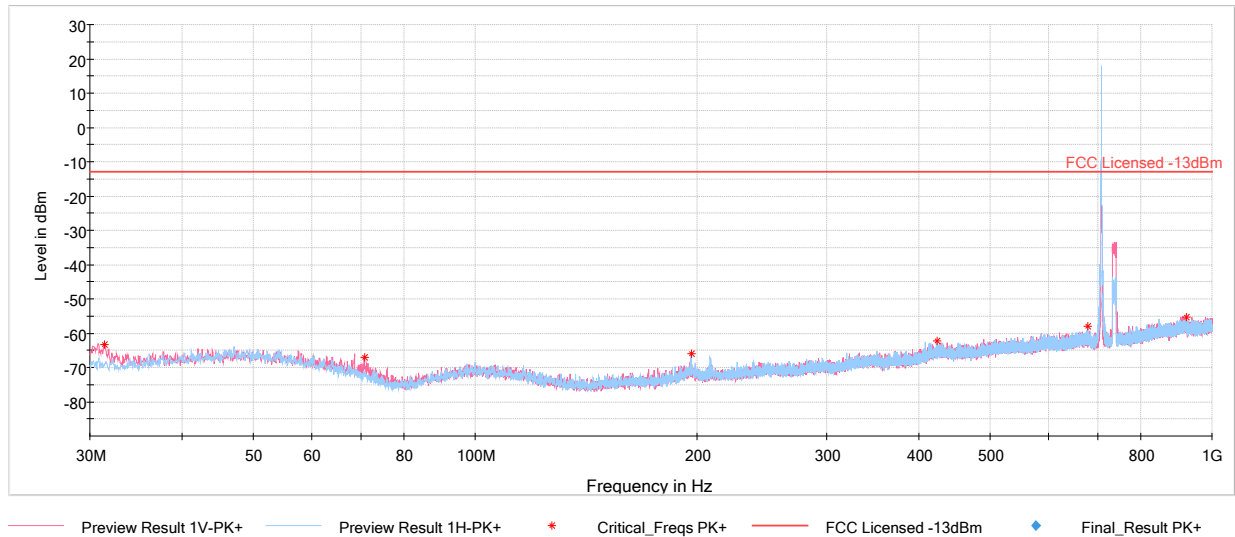
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

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	109	320	-63.50	-3.84	39.66	-55.60	-13.00	-42.60
2064.00	H	190	225	-71.81	-0.18	35.01	-60.25	-13.00	-47.25
2752.00	H	-	-	-77.11	1.08	30.97	-64.29	-13.00	-51.29
3440.00	H	-	-	-77.95	1.61	30.66	-64.60	-13.00	-51.60
4128.00	H	-	-	-78.51	3.19	31.68	-63.57	-13.00	-50.57

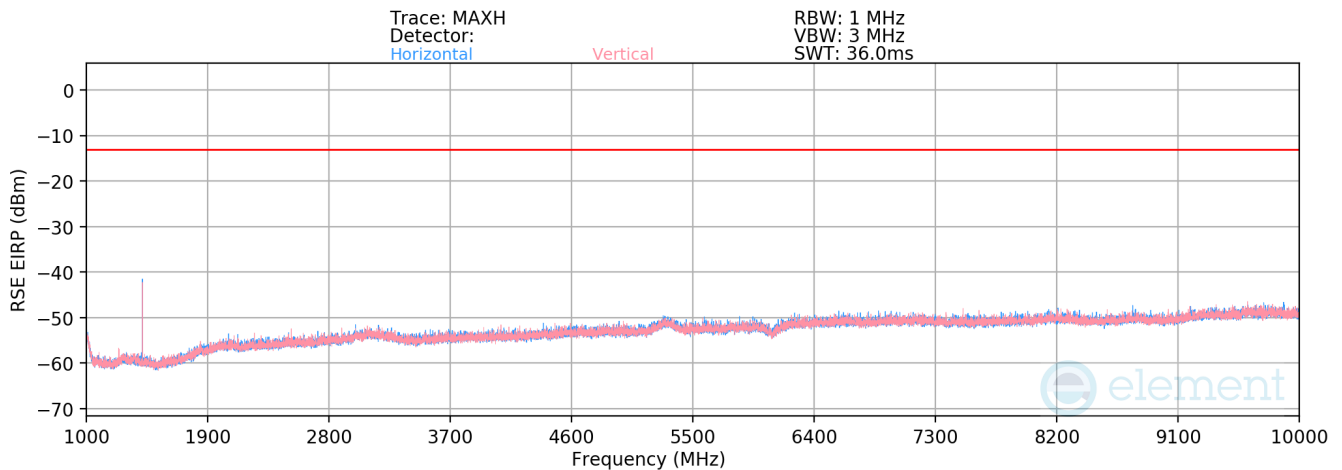
Table 7-55. Radiated Spurious Data (LTE Band 71 – High Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset	Page 249 of 275

LTE Band 12 – Ant2



Plot 7-351. Radiated Spurious Plot (LTE Band 12) – Ant2



Plot 7-352. Radiated Spurious Plot (LTE Band 12) – Ant2

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	308	280	-58.18	-4.03	44.79	-50.47	-13.00	-37.47
2112.00	H	129	237	-75.13	-0.54	31.33	-63.93	-13.00	-50.93
2816.00	V	-	-	-77.39	1.14	30.75	-64.50	-13.00	-51.50
3520.00	V	-	-	-77.85	2.00	31.15	-64.11	-13.00	-51.11
4224.00	V	-	-	-78.61	3.40	31.79	-63.47	-13.00	-50.47

Table 7-56. Radiated Spurious Data (LTE Band 12 – Low Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset		Page 250 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	288	258	-56.89	-4.05	46.06	-49.20	-13.00	-36.20
2122.50	H	158	234	-74.18	-0.64	32.18	-63.08	-13.00	-50.08
2830.00	V	-	-	-77.05	1.06	31.01	-64.24	-13.00	-51.24
3537.50	V	-	-	-77.78	2.03	31.25	-64.01	-13.00	-51.01
4245.00	V	-	-	-78.60	3.44	31.84	-63.42	-13.00	-50.42

Table 7-57. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Ant2

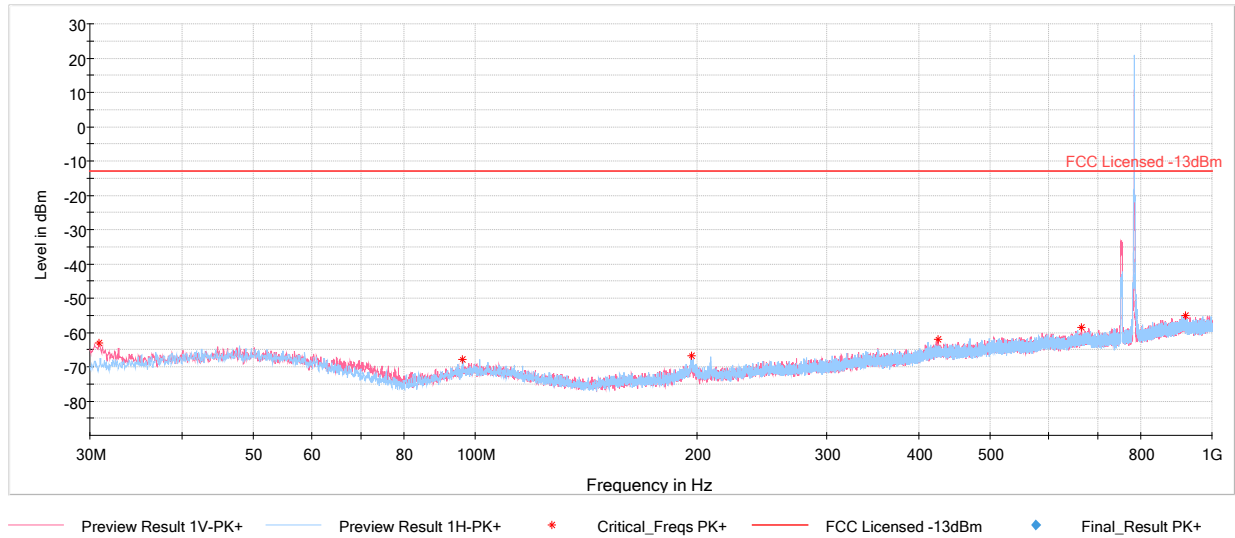
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

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	378	280	-58.18	-4.08	44.74	-50.51	-13.00	-37.51
2133.00	H	149	228	-74.49	-0.71	31.80	-63.45	-13.00	-50.45
2844.00	V	-	-	-76.92	1.02	31.10	-64.16	-13.00	-51.16
3555.00	V	-	-	-77.87	2.02	31.15	-64.11	-13.00	-51.11
4266.00	V	-	-	-78.77	3.41	31.64	-63.62	-13.00	-50.62

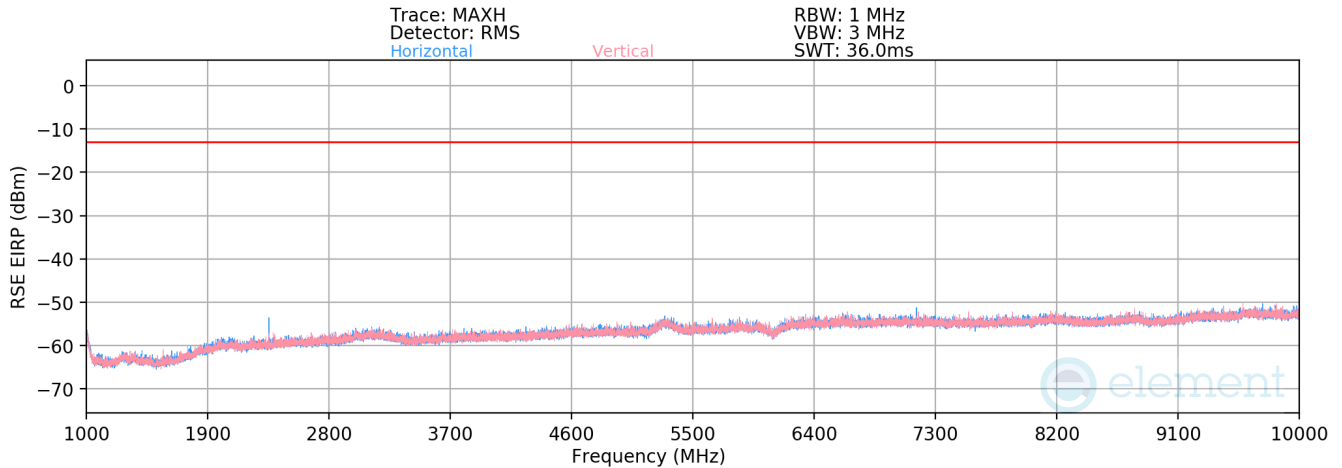
Table 7-58. Radiated Spurious Data (LTE Band 12 – High Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset	Page 251 of 275

LTE Band 13 – Ant2



Plot 7-353. Radiated Spurious Plot (LTE Band 13) – Ant2



Plot 7-354. Radiated Spurious Plot (LTE Band 13) – Ant2

Bandwidth (MHz):	5
Frequency (MHz):	779.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.00	V	247	234	-74.41	-4.64	27.95	-67.30	-40.00	-27.30
2338.50	V	186	298	-75.97	-0.32	30.71	-64.55	-13.00	-51.55
3118.00	H	-	-	-77.26	2.55	32.29	-62.97	-13.00	-49.97
3897.50	H	110	357	-77.39	2.67	32.28	-62.98	-13.00	-49.98
4677.00	H	149	347	-77.94	4.54	33.60	-61.66	-13.00	-48.66
5456.50	H	-	-	-79.82	5.99	33.17	-62.09	-13.00	-49.09
6236.00	H	-	-	-80.52	7.82	34.30	-60.96	-13.00	-47.96
7015.50	H	-	-	-80.52	8.04	34.52	-60.73	-13.00	-47.73

Table 7-59. Radiated Spurious Data (LTE Band 13 – Low Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset		Page 252 of 275

Bandwidth (MHz):	5
Frequency (MHz):	782
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	V	247	246	-72.97	-4.61	29.42	-65.84	-40.00	-25.84
2346.00	H	121	240	-75.91	-0.36	30.73	-64.53	-13.00	-51.53
3128.00	H	-	-	-77.44	2.50	32.06	-63.20	-13.00	-50.20
3910.00	H	-	-	-78.31	2.67	31.36	-63.90	-13.00	-50.90
4692.00	H	105	11	-78.13	4.38	33.25	-62.01	-13.00	-49.01
5474.00	H	-	-	-79.81	6.13	33.32	-61.94	-13.00	-48.94
6256.00	H	-	-	-80.49	7.88	34.39	-60.87	-13.00	-47.87
7038.00	H	-	-	-80.54	8.14	34.60	-60.66	-13.00	-47.66

Table 7-60. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Ant2

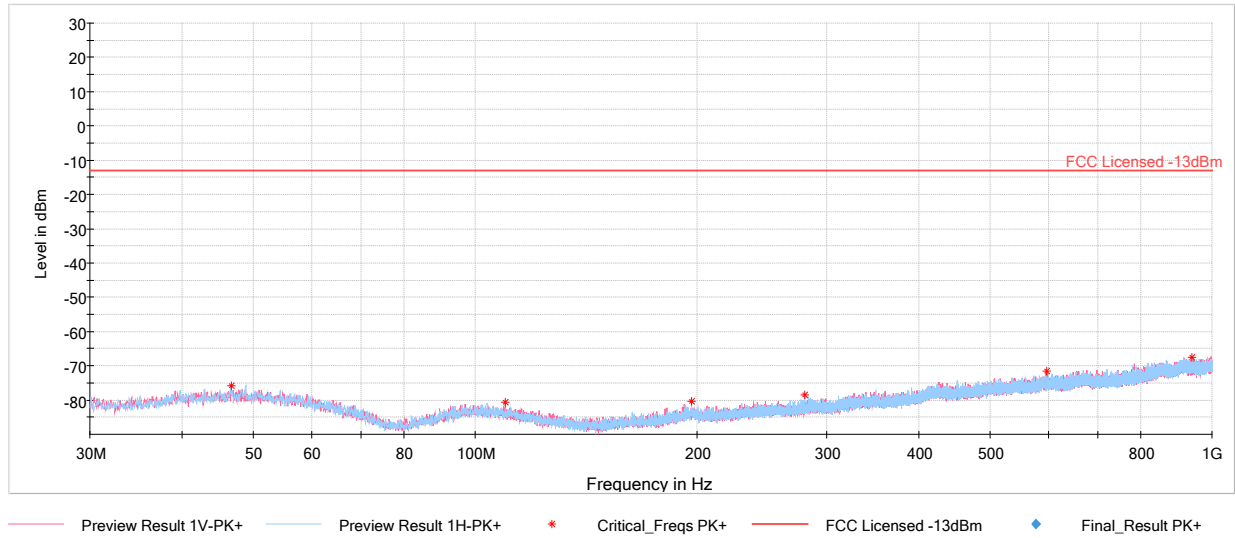
Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.00	V	251	261	-72.50	-4.61	29.89	-65.37	-40.00	-25.37
2353.50	H	149	177	-73.65	-0.36	32.99	-62.27	-13.00	-49.27
3138.00	H	-	-	-77.24	2.50	32.26	-63.00	-13.00	-50.00
3922.50	V	102	18	-77.08	2.67	32.59	-62.67	-13.00	-49.67
4707.00	V	-	-	-78.95	4.38	32.43	-62.83	-13.00	-49.83
5491.50	V	-	-	-79.64	6.13	33.49	-61.77	-13.00	-48.77
6276.00	V	-	-	-80.52	7.88	34.36	-60.90	-13.00	-47.90

Table 7-61. Radiated Spurious Data (LTE Band 13 – High Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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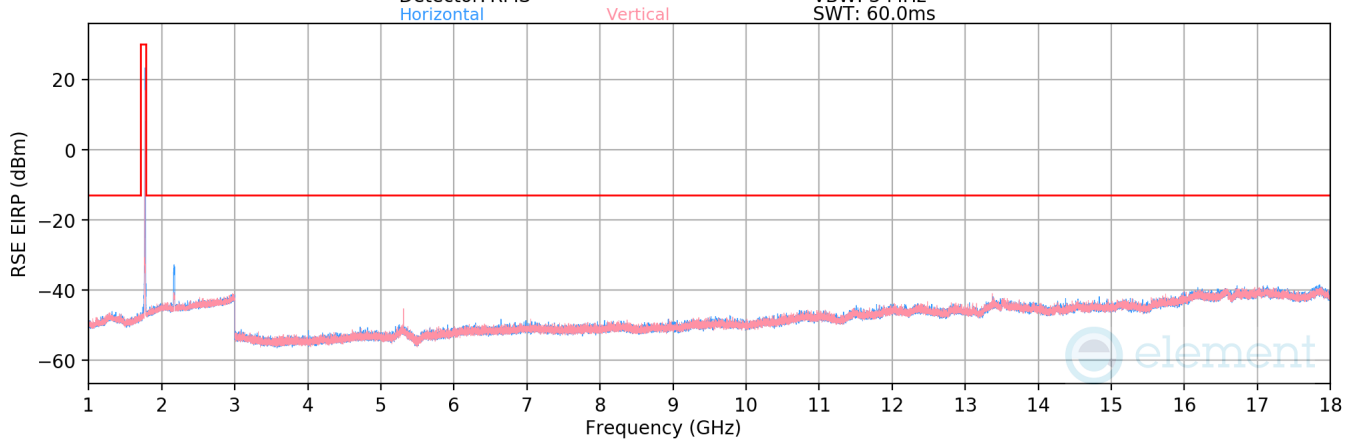
LTE Band 66/4 – Ant2



Plot 7-355. Radiated Spurious Plot (LTE Band 66/4) – Ant2

Trace: MAXH
Detector: RMS
Horizontal

RBW: 1 MHz
VBW: 3 MHz
SWT: 60.0ms



Plot 7-356. Radiated Spurious Plot (LTE Band 66/4) – Ant2

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	V	-	-	-78.30	2.75	31.45	-63.80	-13.00	-50.80
5160.00	V	106	228	-72.93	5.46	39.53	-55.73	-13.00	-42.73
6880.00	V	-	-	-80.70	8.21	34.51	-60.75	-13.00	-47.75
8600.00	V	-	-	-80.48	8.01	34.53	-60.73	-13.00	-47.73
10320.00	V	-	-	-81.15	10.63	36.48	-58.77	-13.00	-45.77

Table 7-62. Radiated Spurious Data (LTE Band 66/4 – Low Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11/2023	EUT Type: Portable Handset		Page 254 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	V	337	240	-77.47	2.44	31.97	-63.29	-13.00	-50.29
5235.00	V	337	210	-73.32	6.30	39.98	-55.28	-13.00	-42.28
6980.00	V	-	-	-80.33	7.78	34.45	-60.80	-13.00	-47.80
8725.00	V	-	-	-80.82	8.66	34.84	-60.42	-13.00	-47.42
10470.00	V	-	-	-81.57	11.03	36.46	-58.80	-13.00	-45.80

Table 7-63. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant2

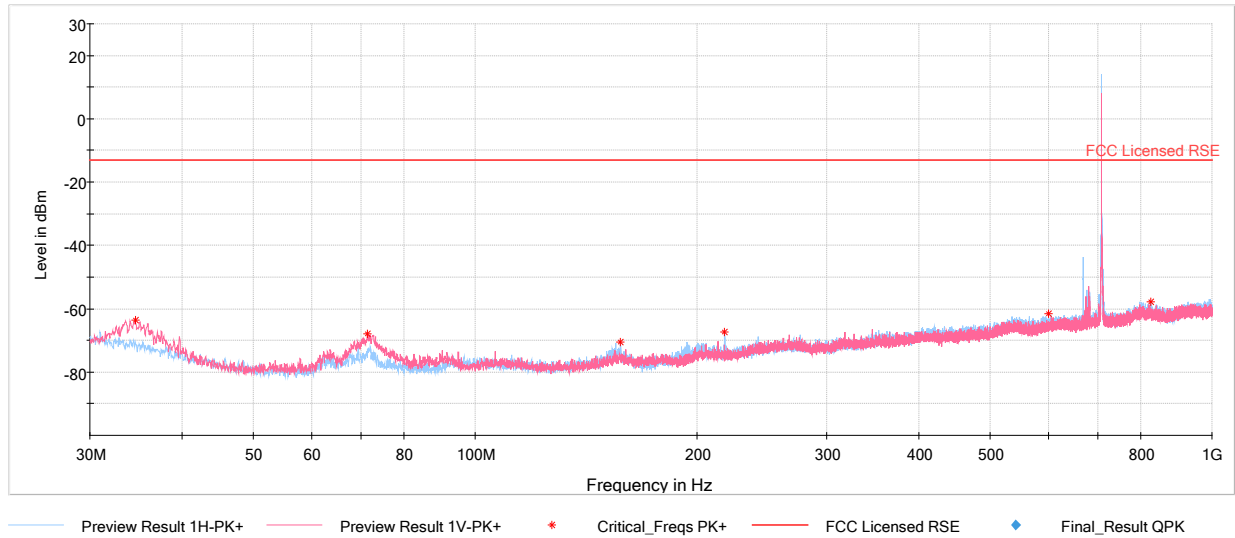
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	V	304	190	-77.11	2.01	31.90	-63.36	-13.00	-50.36
5310.00	V	259	216	-70.39	7.24	43.85	-51.41	-13.00	-38.41
7080.00	V	-	-	-80.55	7.98	34.43	-60.83	-13.00	-47.83
8850.00	V	-	-	-80.47	8.58	35.11	-60.15	-13.00	-47.15
10620.00	V	-	-	-81.43	11.57	37.14	-58.11	-13.00	-45.11

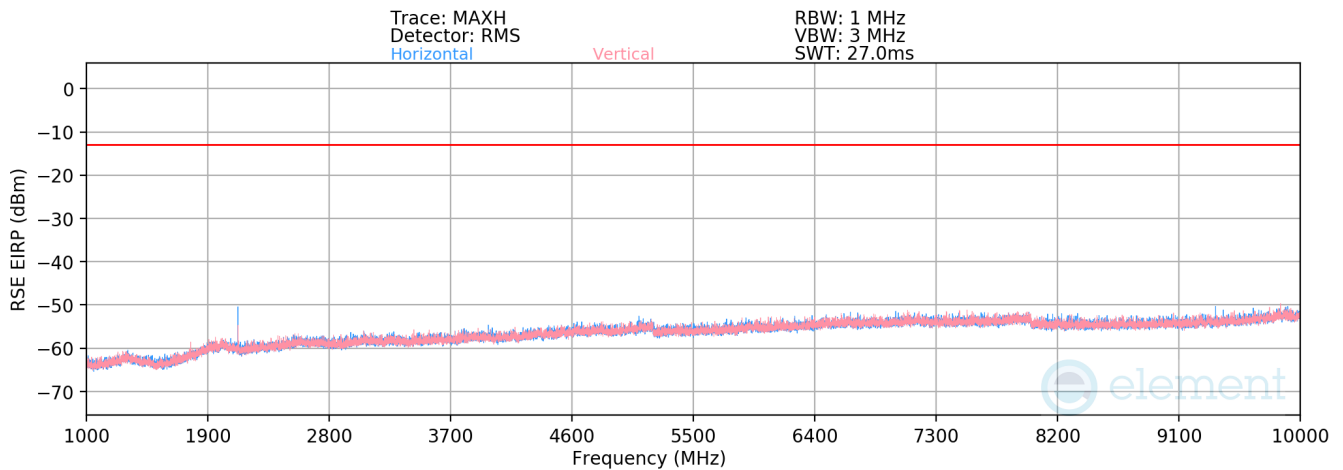
Table 7-64. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n12 – Ant1



Plot 7-357. Radiated Spurious Plot (NR Band n12) – Ant1



Plot 7-358. Radiated Spurious Plot (NR Band n12) – Ant1

Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 39
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]
1413.00	H	-	-	-78.21	-3.67	25.12	-70.14	-13.00	-57.14
2119.50	H	133	101	-72.60	-0.28	34.12	-61.14	-13.00	-48.14
2826.00	H	-	-	-78.99	1.25	29.26	-66.00	-13.00	-53.00
3532.50	H	-	-	-80.01	3.14	30.13	-65.12	-13.00	-52.12

Table 7-65. Radiated Spurious Data (NR Band n12 – Low Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset		Page 256 of 275

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 39
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]
1415.00	H	105	106	-76.21	-3.67	27.12	-68.14	-13.00	-55.14
2122.50	H	147	156	-71.14	-0.31	35.55	-59.71	-13.00	-46.71
2830.00	H	-	-	-79.23	1.25	29.02	-66.24	-13.00	-53.24
3537.50	H	-	-	-80.01	3.17	30.16	-65.10	-13.00	-52.10

Table 7-66. Radiated Spurious Data (NR Band n12 – Mid Channel) – Ant1

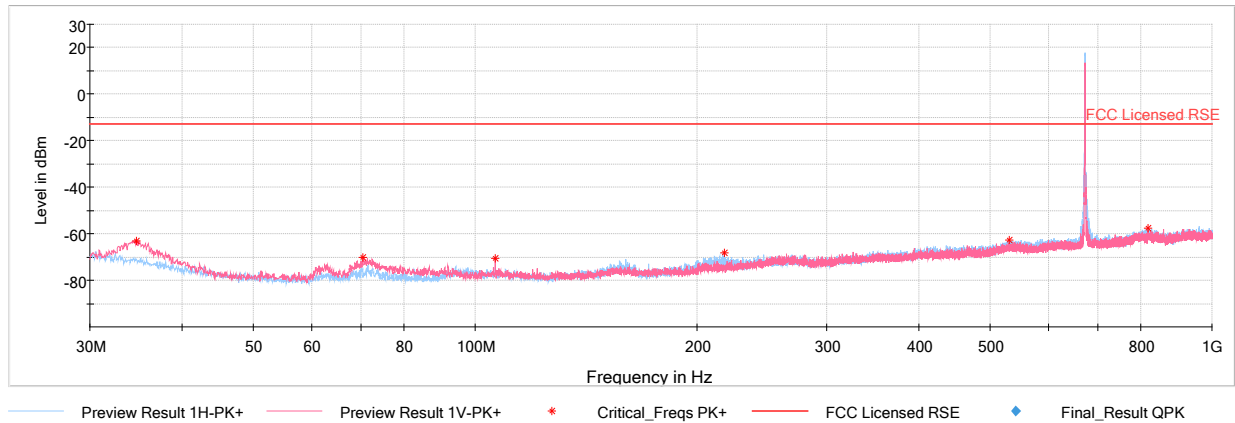
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 39
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
1417.00	H	103	127	-75.67	-3.67	27.66	-67.60	-13.00	-54.60
2125.50	H	128	101	-66.52	-0.33	40.15	-55.11	-13.00	-42.11
2834.00	H	-	-	-79.11	1.25	29.14	-66.12	-13.00	-53.12
3542.50	H	-	-	-79.82	3.19	30.37	-64.89	-13.00	-51.89

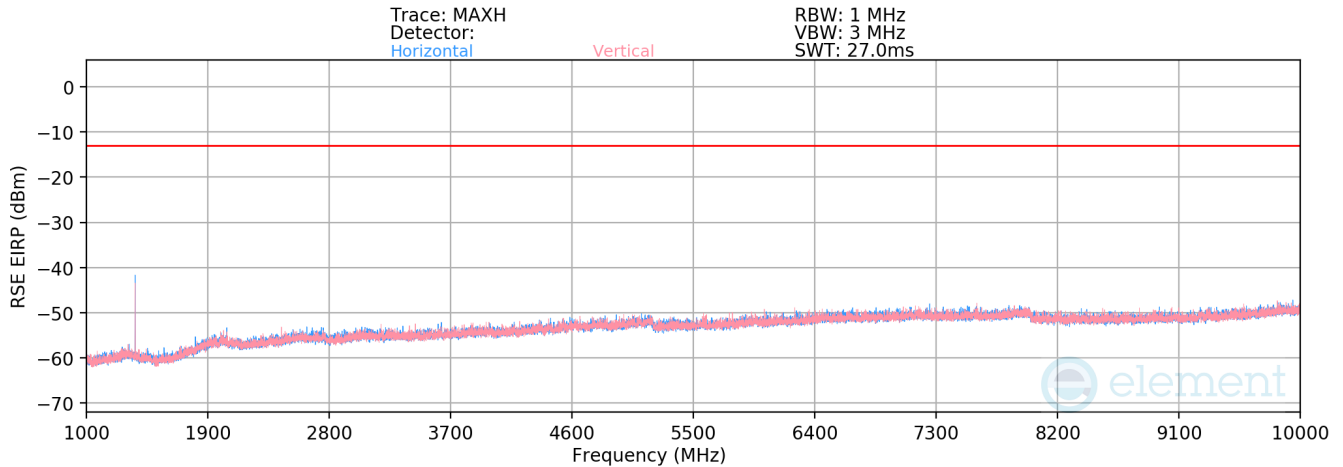
Table 7-67. Radiated Spurious Data (NR Band n12 – High Channel) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71 – Ant2



Plot 7-359. Radiated Spurious Plot (NR Band n71) – Ant2



Plot 7-360. Radiated Spurious Plot (NR Band n71) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 50
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]
1346.00	V	372	232	-52.84	-3.02	51.14	-44.12	-13.00	-31.12
2019.00	H	114	195	-76.74	0.48	30.74	-64.51	-13.00	-51.51
2692.00	H	-	-	-79.11	1.58	29.47	-65.79	-13.00	-52.79
3365.00	H	-	-	-79.62	2.47	29.85	-65.41	-13.00	-52.41
4038.00	H	-	-	-80.41	4.11	30.70	-64.55	-13.00	-51.55

Table 7-68. Radiated Spurious Data (NR Band n71 – Low Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50
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]
1361.00	V	351	238	-52.01	-3.16	51.83	-43.43	-13.00	-30.43
2041.50	H	135	195	-76.21	0.45	31.24	-64.02	-13.00	-51.02
2722.00	H	-	-	-79.15	1.63	29.48	-65.78	-13.00	-52.78
3402.50	H	-	-	-79.57	2.61	30.04	-65.22	-13.00	-52.22
4083.00	H	-	-	-80.53	4.15	30.62	-64.64	-13.00	-51.64

Table 7-69. Radiated Spurious Data (NR Band n71 – Mid Channel) – Ant2

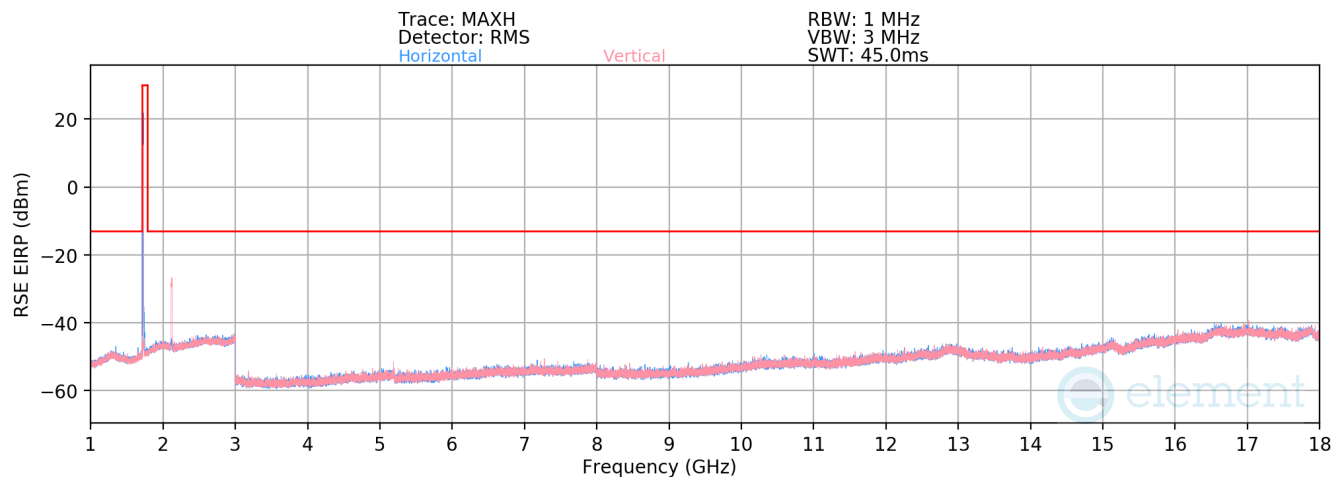
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
1376.00	V	278	238	-56.03	-3.33	47.64	-47.62	-13.00	-34.62
2064.00	H	127	198	-75.46	0.25	31.79	-63.46	-13.00	-50.46
2752.00	H	-	-	-79.19	1.65	29.46	-65.79	-13.00	-52.79
3440.00	H	-	-	-79.70	2.70	30.00	-65.26	-13.00	-52.26
4128.00	H	-	-	-80.57	4.26	30.69	-64.57	-13.00	-51.57

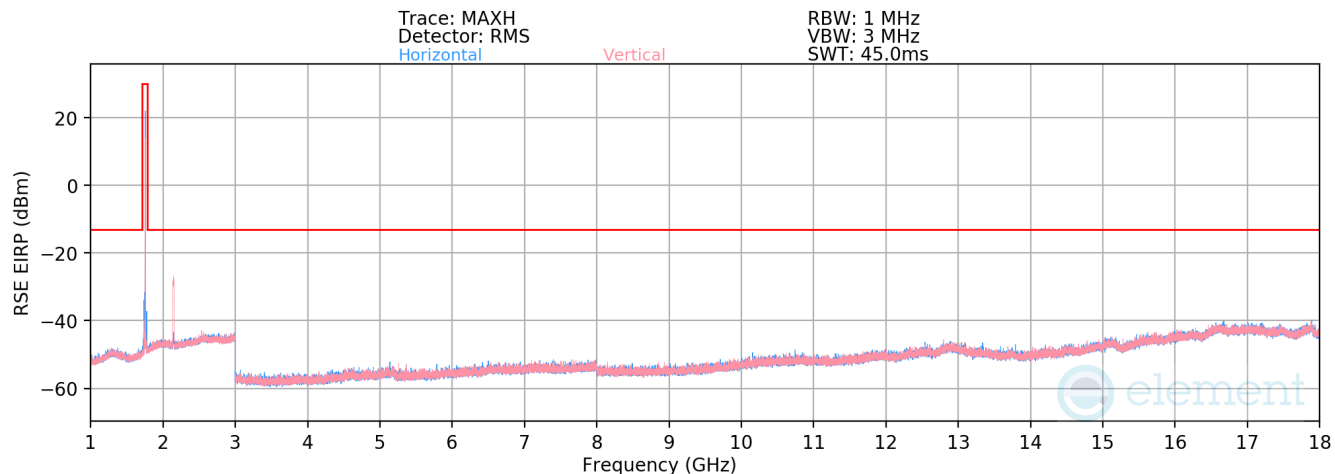
Table 7-70. Radiated Spurious Data (NR Band n71 – High Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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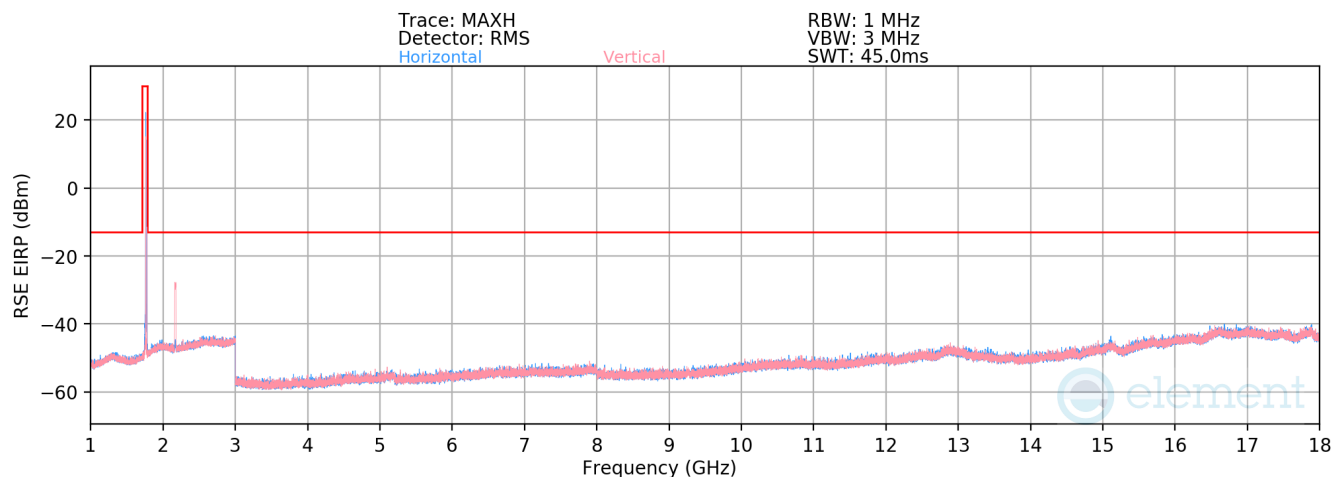
Uplink CA LTE Band 66B/C – Ant2



Plot 7-361. Radiated Spurious Plot (ULCA LTE Band 66 – Ant2 – Low Channel)



Plot 7-362. Radiated Spurious Plot (ULCA LTE Band 66 – Ant2 – Mid Channel)



Plot 7-363. Radiated Spurious Plot (ULCA LTE Band 66 – Ant2 – High Channel)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	V	-	-	-79.66	3.25	30.59	-64.66	-13.00	-51.66
5160.00	V	-	-	-81.97	6.84	31.87	-63.38	-13.00	-50.38
6880.00	V	-	-	-82.43	9.12	33.69	-61.57	-13.00	-48.57

Table 7-71. Radiated Spurious Data (ULCA LTE66 – Low Channel – Ant2)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	-	-	-79.91	3.54	30.63	-64.62	-13.00	-51.62
5235.00	V	-	-	-81.98	6.77	31.79	-63.47	-13.00	-50.47
6980.00	V	-	-	-82.71	9.10	33.39	-61.87	-13.00	-48.87

Table 7-72. Radiated Spurious Data (ULCA LTE66 – Mid Channel – Ant2)

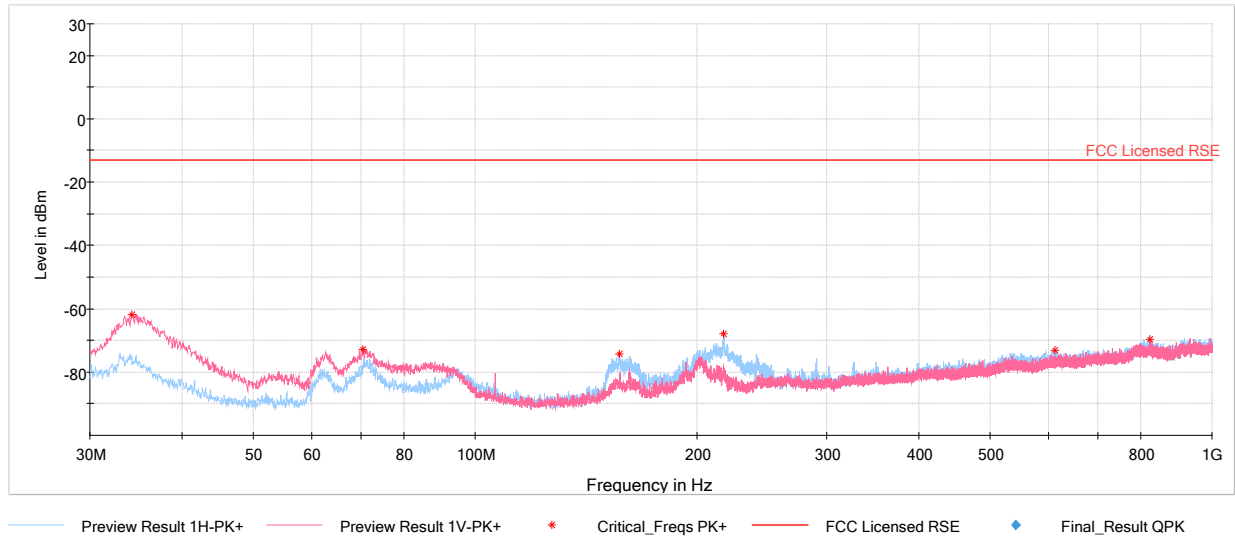
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	V	-	-	-79.97	3.59	30.62	-64.63	-13.00	-51.63
5310.00	V	-	-	-82.23	6.96	31.73	-63.53	-13.00	-50.53
7080.00	V	-	-	-82.76	9.30	33.54	-61.71	-13.00	-48.71

Table 7-73. Radiated Spurious Data (ULCA LTE66 – High Channel – Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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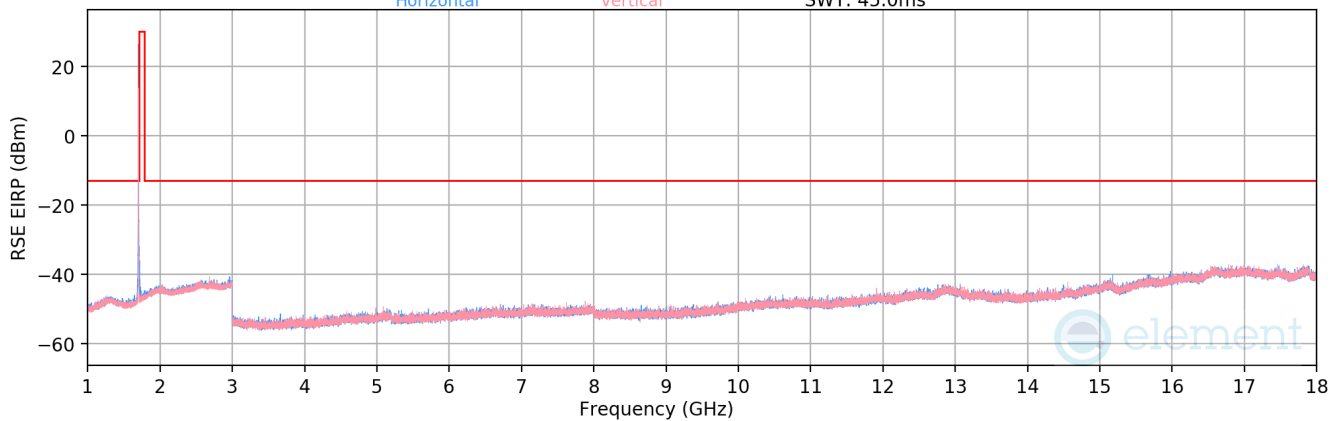
NR Band n70 – Ant2



Plot 7-364. Radiated Spurious Plot (NR Band n70) – Ant2

Trace: MAXH
Detector:
Horizontal

RBW: 1 MHz
VBW: 3 MHz
SWT: 45.0ms



Plot 7-365. Radiated Spurious Plot (NR Band n70) – Ant2

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 39
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.00	V	-	-	-79.71	3.22	30.51	-64.75	-13.00	-51.75
5107.50	V	-	-	-81.72	6.75	32.03	-63.22	-13.00	-50.22
6810.00	V	-	-	-82.54	9.01	33.47	-61.78	-13.00	-48.78

Table 7-74. Radiated Spurious Data (NR Band n70 – Low Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager	
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset			Page 262 of 275	

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 39
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.00	V	-	-	-79.45	3.22	30.77	-64.49	-13.00	-51.49
5107.50	V	-	-	-81.59	6.75	32.16	-63.09	-13.00	-50.09
6810.00	V	-	-	-82.68	9.01	33.33	-61.92	-13.00	-48.92

Table 7-75. Radiated Spurious Data (NR Band n70 – Mid Channel) – Ant2

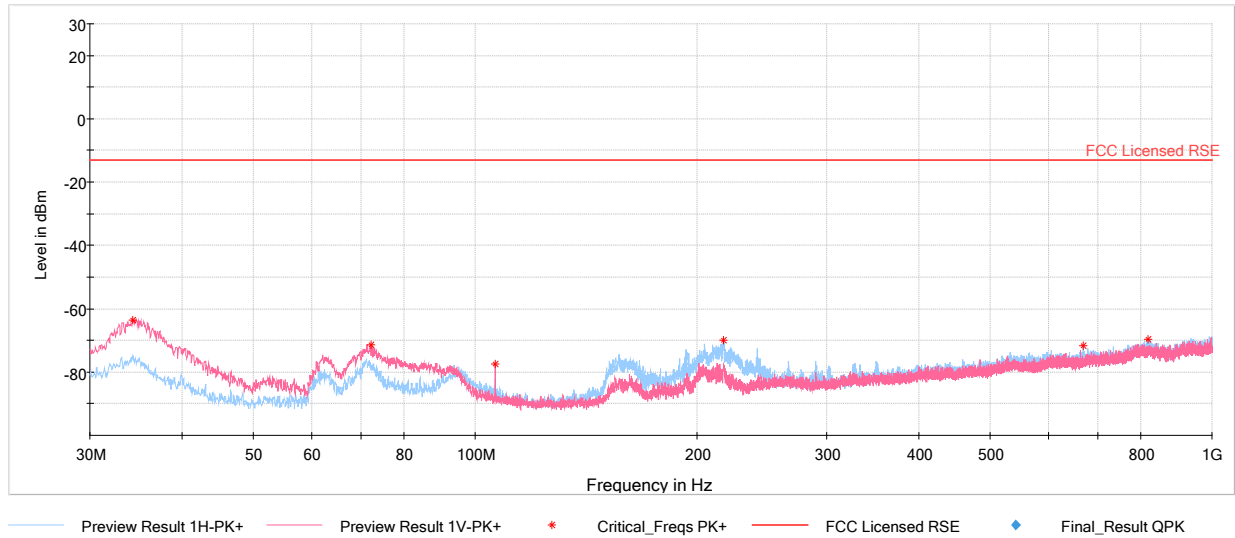
Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 39
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.00	V	-	-	-79.46	3.22	30.76	-64.50	-13.00	-51.50
5107.50	V	331	320	-79.97	6.75	33.78	-61.47	-13.00	-48.47
6810.00	V	-	-	-82.65	9.01	33.36	-61.89	-13.00	-48.89
8512.50	V	-	-	-83.33	9.44	33.11	-62.15	-13.00	-49.15
10215.00	V	-	-	-83.95	11.74	34.79	-60.47	-13.00	-47.47

Table 7-76. Radiated Spurious Data (NR Band n70 – High Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset	Page 263 of 275

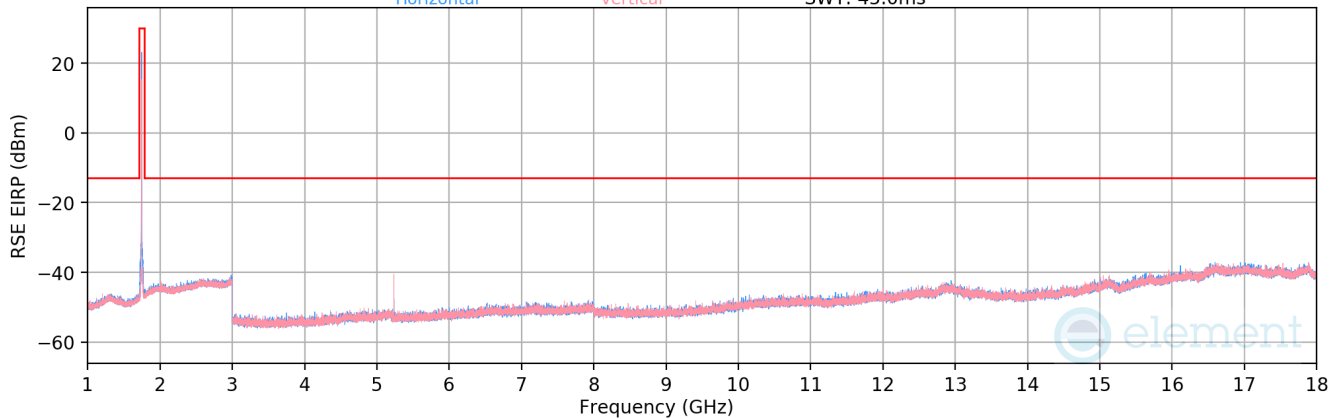
NR Band n66 – Ant2



Plot 7-366. Radiated Spurious Plot (NR Band n66) – Ant2

Trace: MAXH
Detector:
Horizontal

RBW: 1 MHz
VBW: 3 MHz
SWT: 45.0ms



Plot 7-367. Radiated Spurious Plot (NR Band n66) – Ant2

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.00	V	-	-	-79.72	3.39	30.67	-64.59	-13.00	-51.59
5190.00	V	103	189	-67.34	6.92	46.58	-48.68	-13.00	-35.68
6920.00	V	-	-	-82.58	9.18	33.60	-61.66	-13.00	-48.66
8650.00	V	-	-	-83.56	9.96	33.40	-61.86	-13.00	-48.86
10380.00	V	-	-	-83.68	12.10	35.42	-59.84	-13.00	-46.84

Table 7-77. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	1745
RB / Offset:	1 / 108
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	-	-	-79.60	3.54	30.94	-64.31	-13.00	-51.31
5235.00	V	102	189	-65.93	6.77	47.84	-47.42	-13.00	-34.42
6980.00	V	-	-	-82.64	9.10	33.46	-61.80	-13.00	-48.80
8725.00	V	-	-	-83.44	9.48	33.04	-62.22	-13.00	-49.22
10470.00	V	-	-	-83.66	12.29	35.63	-59.63	-13.00	-46.63

Table 7-78. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant2

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.00	V	-	-	-79.81	3.60	30.79	-64.47	-13.00	-51.47
5280.00	V	102	192	-67.46	6.90	46.44	-48.81	-13.00	-35.81
7040.00	V	-	-	-82.67	9.13	33.46	-61.80	-13.00	-48.80
8800.00	V	-	-	-83.51	9.48	32.97	-62.28	-13.00	-49.28
10560.00	V	-	-	-83.83	12.49	35.66	-59.59	-13.00	-46.59

Table 7-79. Radiated Spurious Data (NR Band n66 – High Channel) – Ant2

FCC ID: A3LSMS928U	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

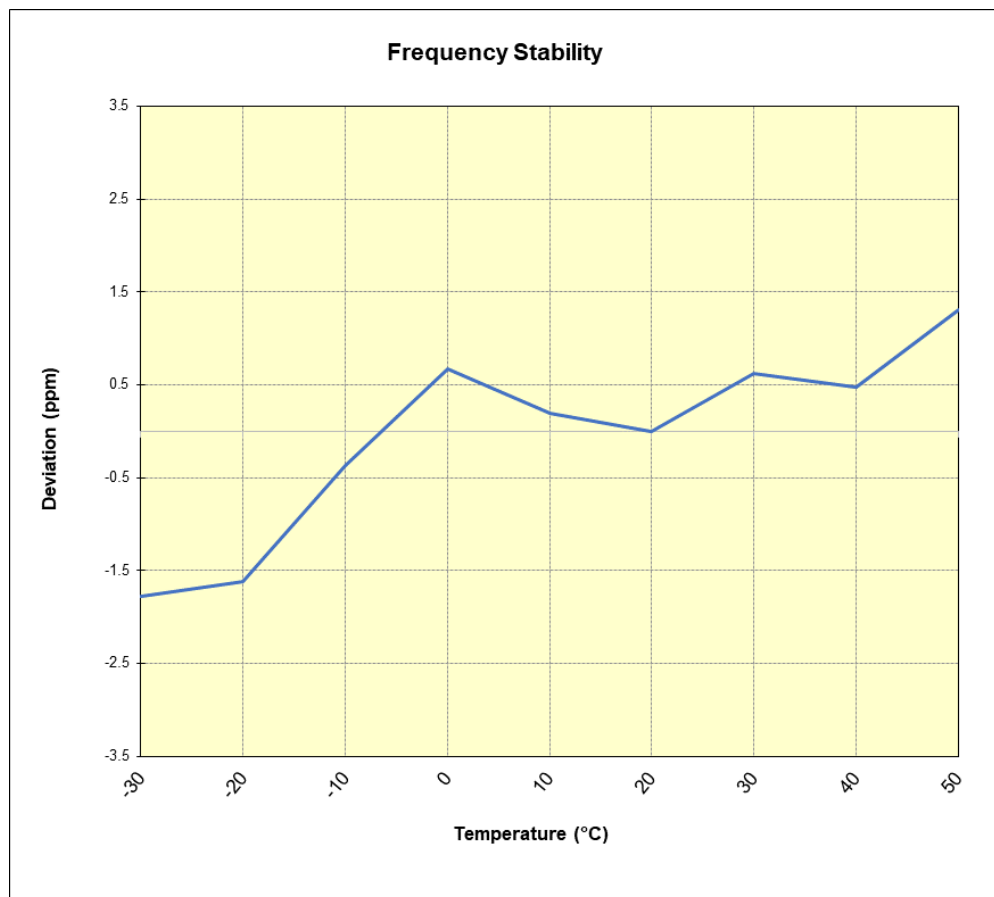
FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset	Page 266 of 275

LTE Band 71

Operating Frequency (Hz):	680,500,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	680,498,789	-1,211	-0.0001780
		- 20	680,498,897	-1,103	-0.0001621
		- 10	680,499,752	-248	-0.0000364
		0	680,500,456	456	0.0000670
		+ 10	680,500,132	132	0.0000194
		+ 20 (Ref)	680,500,000	0	0.0000000
		+ 30	680,500,427	427	0.0000627
		+ 40	680,500,326	326	0.0000479
		+ 50	680,500,888	888	0.0001305
Battery Endpoint	3.68	+ 20	680,500,111	111	0.0000163

Table 7-80. LTE Band 71 Frequency Stability Data



Plot 7-368. LTE Band 71 Frequency Stability Chart

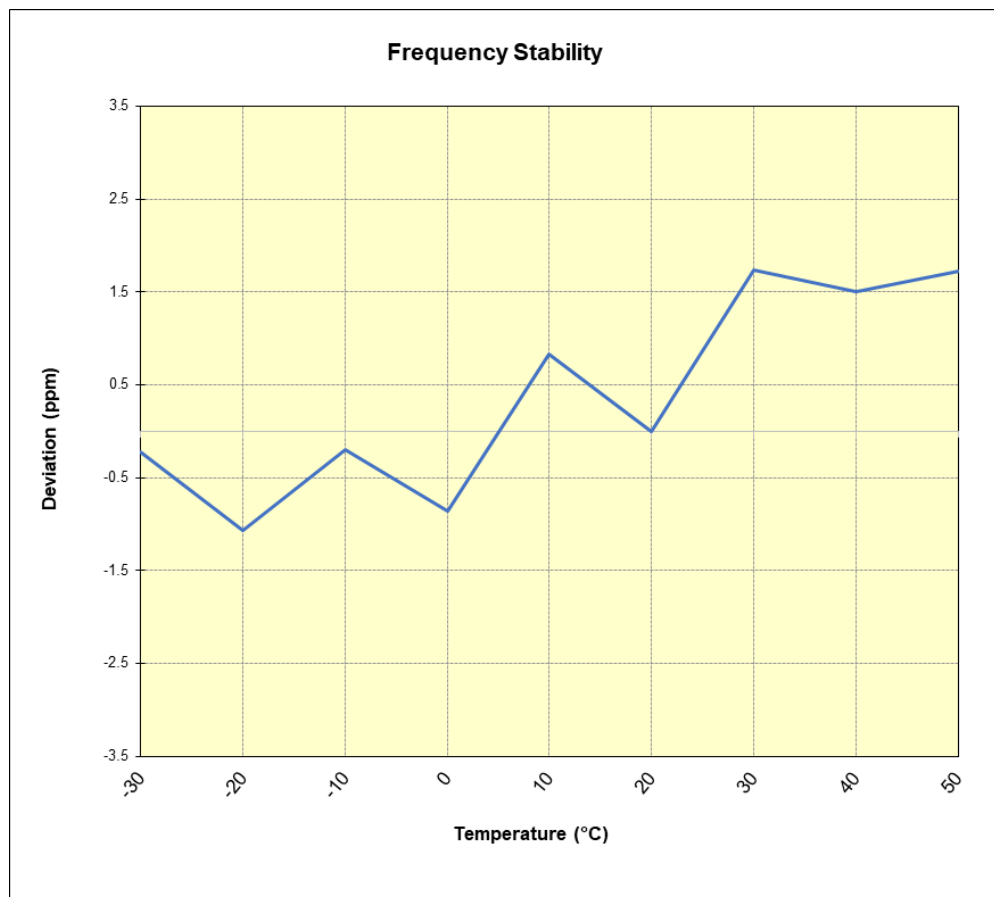
FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12

Operating Frequency (Hz):	707,500,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	707,499,856	-154	-0.0000218
		- 20	707,499,256	-754	-0.0001066
		- 10	707,499,871	-139	-0.0000196
		0	707,499,402	-608	-0.0000859
		+ 10	707,500,598	588	0.0000831
		+ 20 (Ref)	707,500,010	0	0.0000000
		+ 30	707,501,239	1,229	0.0001737
		+ 40	707,501,078	1,068	0.0001510
		+ 50	707,501,234	1,224	0.0001730
Battery Endpoint	3.68	+ 20	707,500,000	-10	-0.0000014

Table 7-81. LTE Band 12 Frequency Stability Data



Plot 7-369. LTE Band 12 Frequency Stability Chart

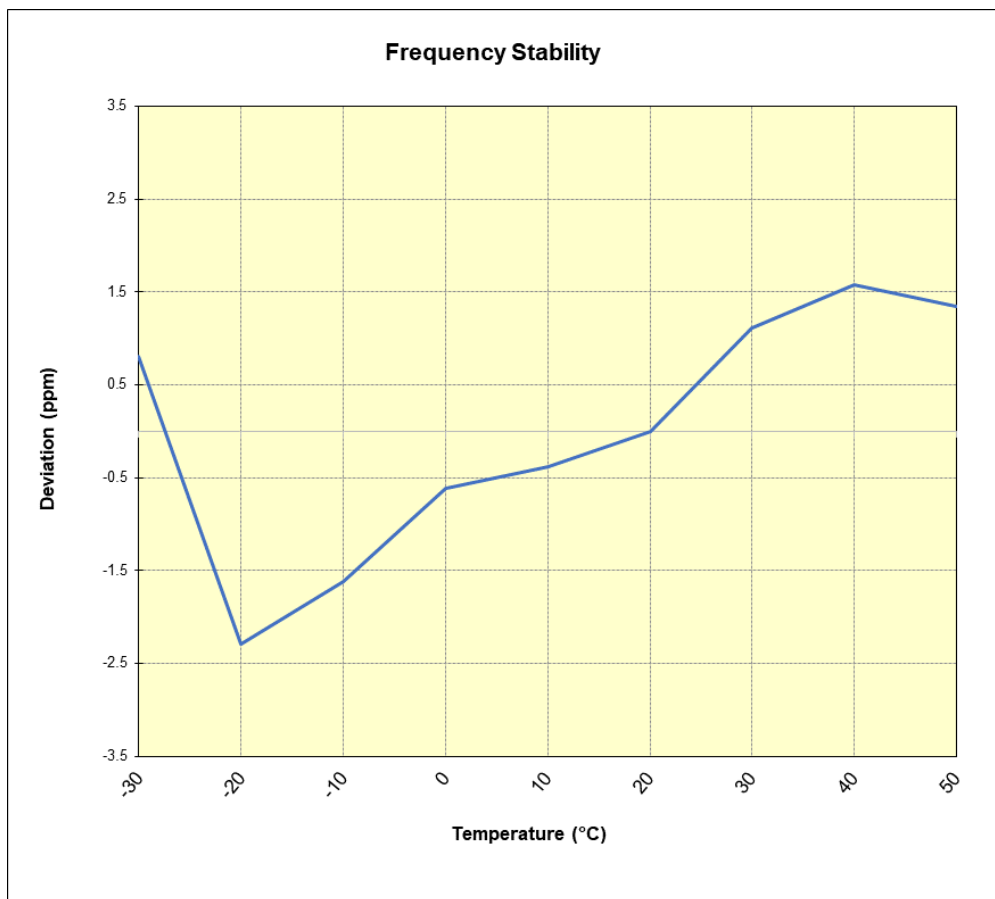
FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13

Operating Frequency (Hz):	782,000,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	782,000,999	630	0.0000806
		- 20	781,998,579	-1,790	-0.0002289
		- 10	781,999,104	-1,265	-0.0001618
		0	781,999,889	-480	-0.0000614
		+ 10	782,000,069	-300	-0.0000384
		+ 20 (Ref)	782,000,369	0	0.0000000
		+ 30	782,001,237	868	0.0001110
		+ 40	782,001,604	1,235	0.0001579
		+ 50	782,001,421	1,052	0.0001345
Battery Endpoint	3.68	+ 20	782,000,999	630	0.0000806

Table 7-82. LTE Band 13 Frequency Stability Data



Plot 7-370. LTE Band 13 Frequency Stability Chart

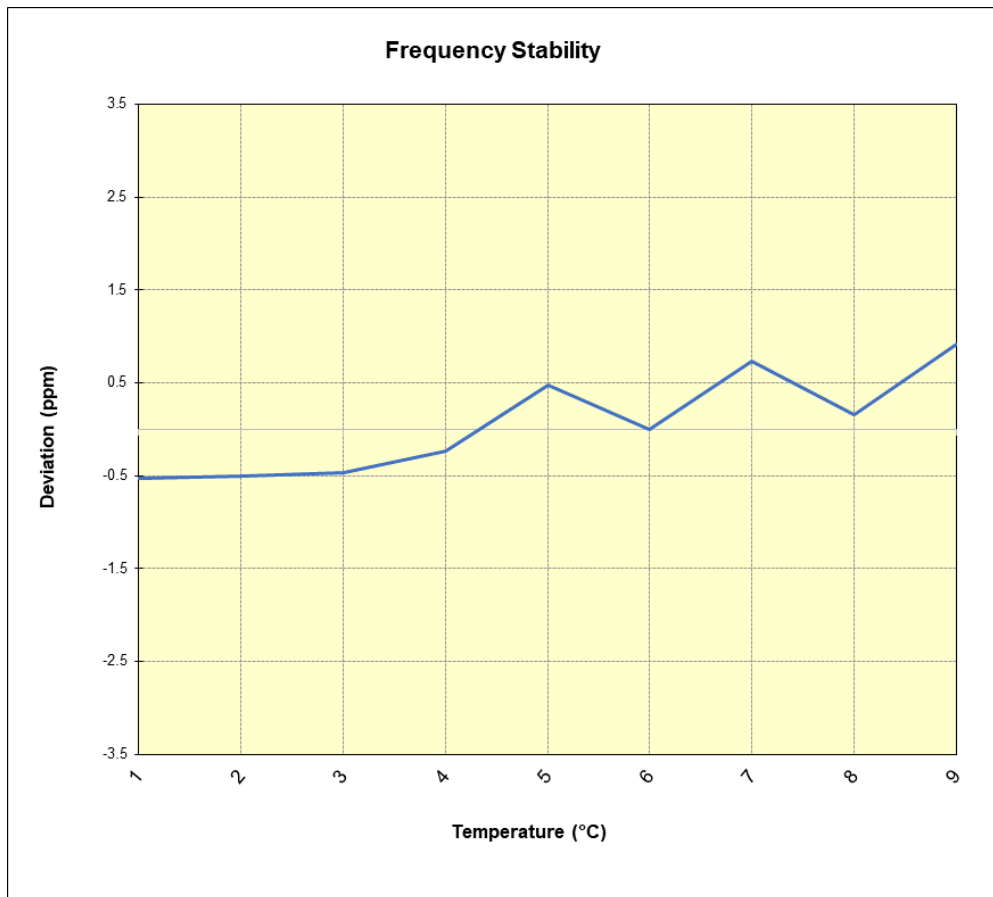
FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4

Operating Frequency (Hz):	1,745,000,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	1,745,001,498	-922	-0.0000528
		- 20	1,745,001,532	-888	-0.0000509
		- 10	1,745,001,599	-821	-0.0000470
		0	1,745,002,011	-409	-0.0000234
		+ 10	1,745,003,247	827	0.0000474
		+ 20 (Ref)	1,745,002,420	0	0.0000000
		+ 30	1,745,003,698	1,278	0.0000732
		+ 40	1,745,002,699	279	0.0000160
Battery Endpoint	3.68	+ 50	1,745,004,014	1,594	0.0000913
		+ 20	1,745,006,259	3,839	0.0002200

Table 7-83. LTE Band 66/4 Frequency Stability Data



Plot 7-371. LTE Band 66/4 Frequency Stability Chart

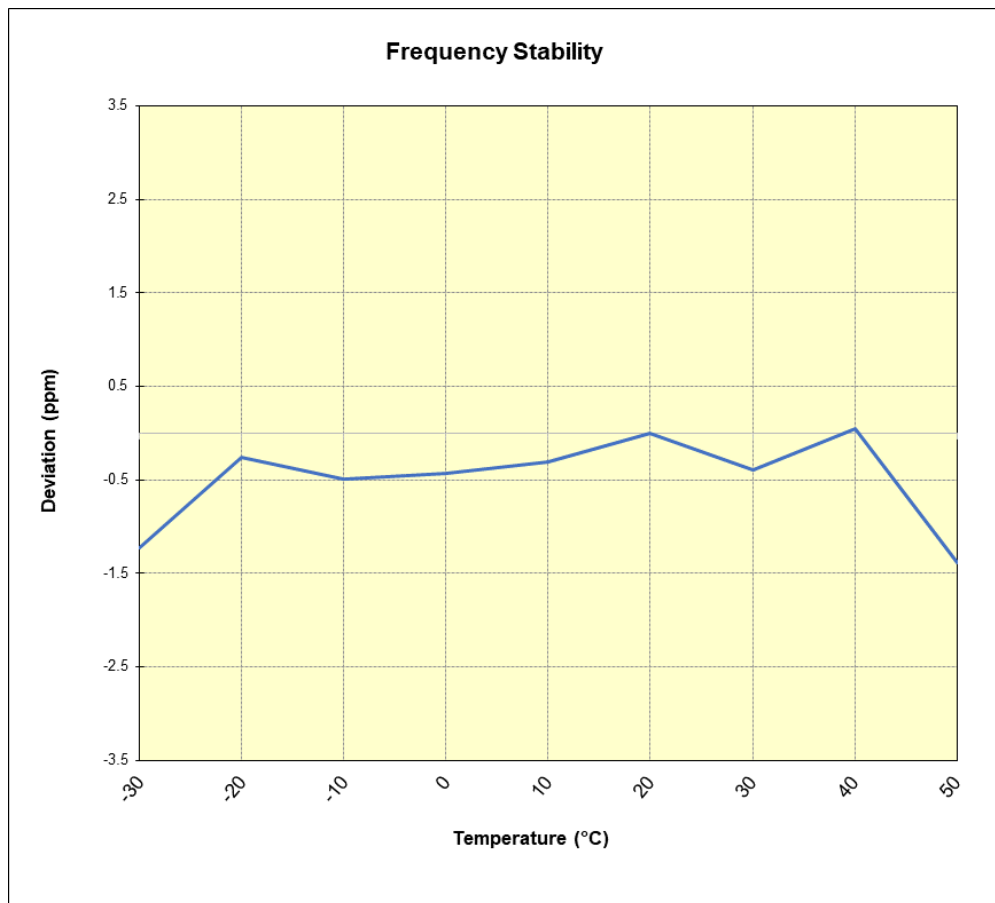
FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71

Operating Frequency (Hz):	680,500,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	680,493,120	-838	-0.0001231
		- 20	680,493,784	-174	-0.0000255
		- 10	680,493,620	-338	-0.0000496
		0	680,493,669	-289	-0.0000424
		+ 10	680,493,747	-211	-0.0000310
		+ 20 (Ref)	680,493,958	0	0.0000000
		+ 30	680,493,694	-264	-0.0000388
		+ 40	680,493,986	29	0.0000042
		+ 50	680,493,017	-941	-0.0001382
Battery Endpoint	3.68	+ 20	680,494,044	87	0.0000127

Table 7-84. NR Band n71 Frequency Stability Data



Plot 7-372. NR Band n71 Frequency Stability Chart

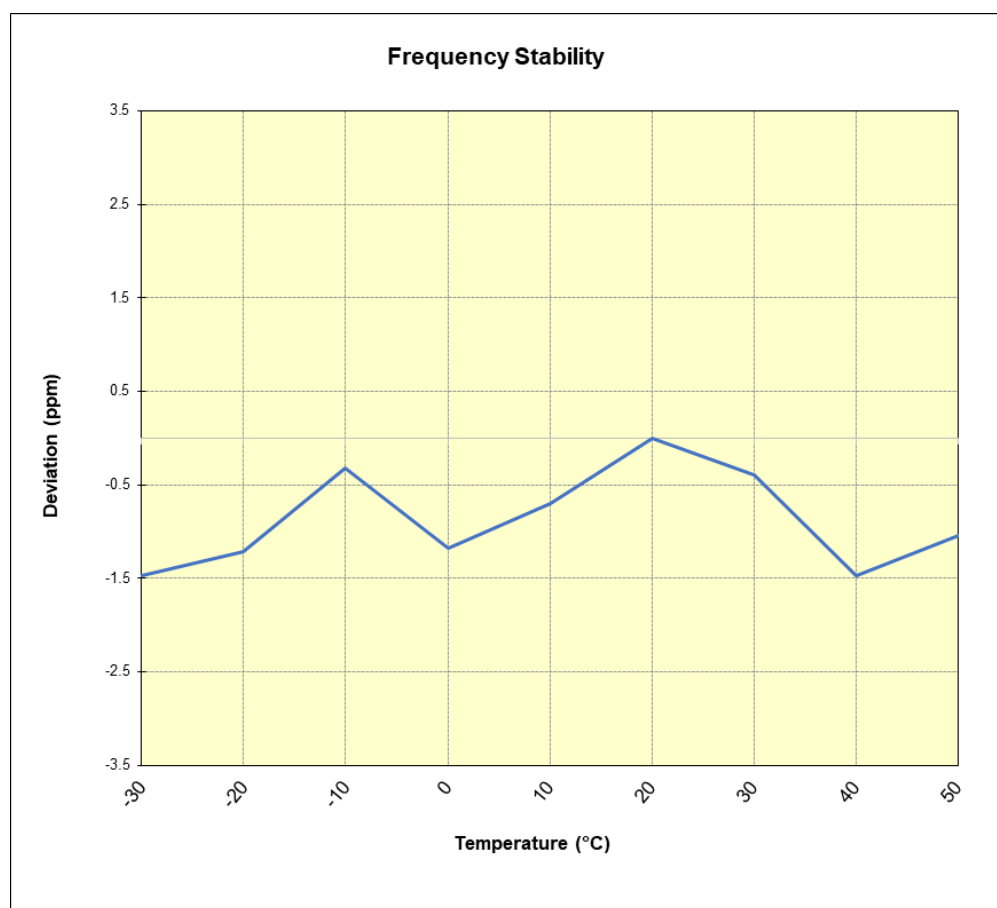
FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n12

Operating Frequency (Hz):	707,500,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	707,492,157	-1,044	-0.0001475
		- 20	707,492,343	-857	-0.0001212
		- 10	707,492,978	-223	-0.0000315
		0	707,492,369	-832	-0.0001176
		+ 10	707,492,707	-494	-0.0000698
		+ 20 (Ref)	707,493,201	0	0.0000000
		+ 30	707,492,920	-280	-0.0000396
		+ 40	707,492,164	-1,037	-0.0001465
		+ 50	707,492,463	-737	-0.0001042
Battery Endpoint	3.68	+ 20	707,493,602	401	0.0000567

Table 7-85. NR Band n12 Frequency Stability Data



Plot 7-373. NR Band n12 Frequency Stability Chart

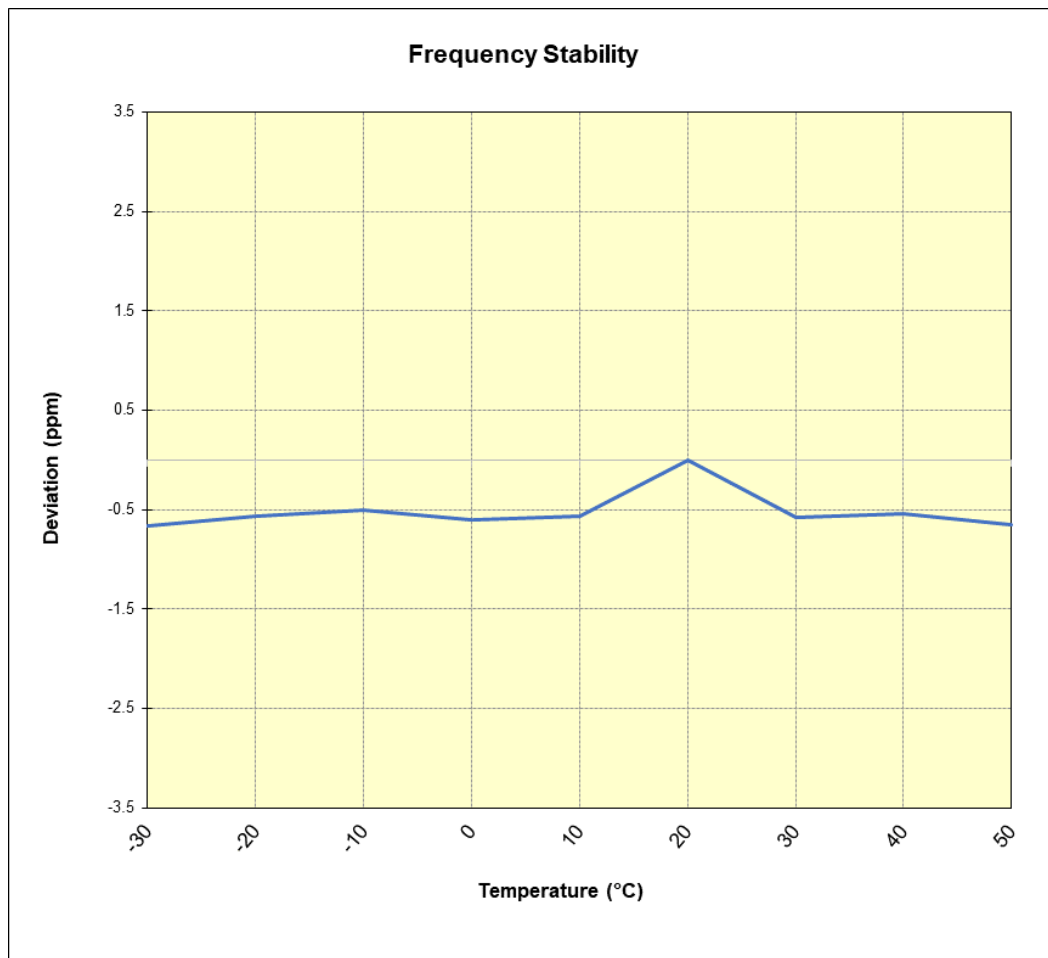
FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70

Operating Frequency (Hz):	1,702,500,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	1,702,493,162	-1,122	-0.0000659
		- 20	1,702,493,332	-952	-0.0000559
		- 10	1,702,493,436	-847	-0.0000498
		0	1,702,493,268	-1,016	-0.0000597
		+ 10	1,702,493,330	-954	-0.0000560
		+ 20 (Ref)	1,702,494,284	0	0.0000000
		+ 30	1,702,493,304	-980	-0.0000576
		+ 40	1,702,493,367	-917	-0.0000539
		+ 50	1,702,493,181	-1,103	-0.0000648
Battery Endpoint	3.68	+ 20	1,702,494,487	203	0.0000119

Table 7-86. NR Band n70 Frequency Stability Data



Plot 7-374. NR Band n70 Frequency Stability Chart

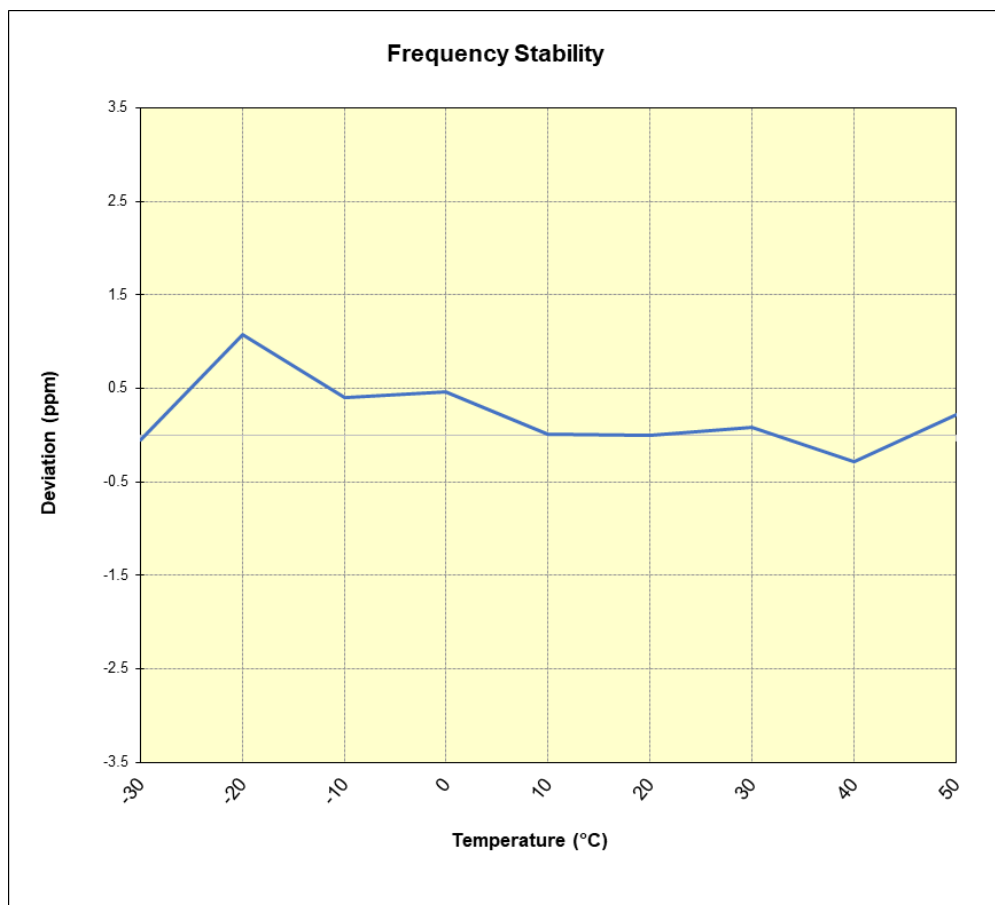
FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66

Operating Frequency (Hz):	1,745,000,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	1,744,992,394	-85	-0.0000049
		- 20	1,744,994,363	1,884	0.0001080
		- 10	1,744,993,173	695	0.0000398
		0	1,744,993,286	807	0.0000462
		+ 10	1,744,992,487	9	0.0000005
		+ 20 (Ref)	1,744,992,479	0	0.0000000
		+ 30	1,744,992,627	148	0.0000085
		+ 40	1,744,991,983	-496	-0.0000284
		+ 50	1,744,992,867	388	0.0000223
Battery Endpoint	3.68	+ 20	1,744,993,187	709	0.0000406

Table 7-87. NR Band n66 Frequency Stability Data



Plot 7-375. NR Band n66 Frequency Stability Chart

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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: A3LSMS928U** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-04.A3L	Test Dates: 9/7 – 11//2023	EUT Type: Portable Handset	Page 275 of 275