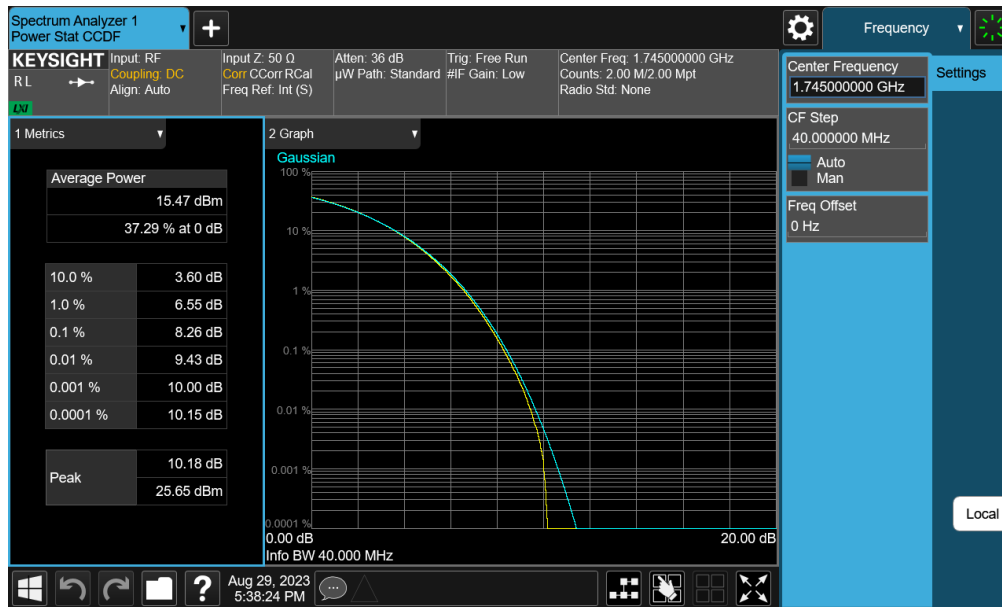




Plot 7-165. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM 256-QAM - Full RB - Ant 7)

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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.

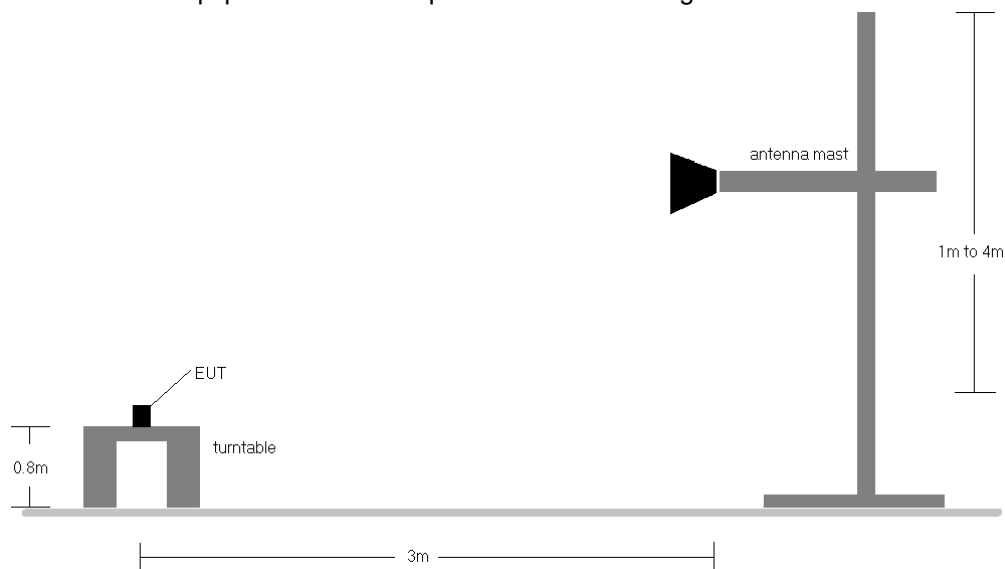


Figure 7-6. Radiated Test Setup <1GHz

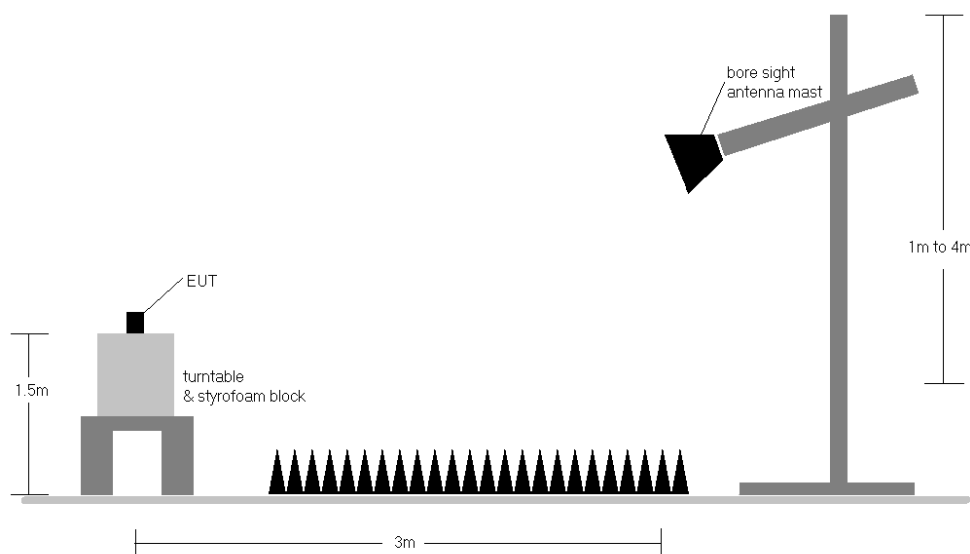


Figure 7-7. Radiated Test Setup >1GHz

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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) This unit was tested with its standard battery.
- 3) 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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.00	H	128	179	1.34	1 / 49	17.55	18.89	0.077	36.99	-18.10	16.74	0.047	34.77	-18.03
	QPSK	707.50	H	129	174	1.33	1 / 49	17.68	19.01	0.080	36.99	-17.98	16.86	0.049	34.77	-17.91
	QPSK	711.00	H	130	172	1.33	1 / 49	18.32	19.65	0.092	36.99	-17.34	17.50	0.056	34.77	-17.28
	16-QAM	711.00	H	130	172	1.33	1 / 49	17.47	18.80	0.076	36.99	-18.19	16.65	0.046	34.77	-18.13
5 MHz	QPSK	701.50	H	128	179	1.35	1 / 12	17.37	18.72	0.074	36.99	-18.27	16.57	0.045	34.77	-18.20
	QPSK	707.50	H	129	174	1.33	1 / 24	17.67	19.00	0.080	36.99	-17.99	16.85	0.048	34.77	-17.92
	QPSK	713.50	H	130	172	1.32	1 / 12	18.24	19.56	0.090	36.99	-17.43	17.41	0.055	34.77	-17.36
	16-QAM	713.50	H	130	172	1.32	1 / 12	17.57	18.89	0.077	36.99	-18.10	16.74	0.047	34.77	-18.04
3 MHz	QPSK	700.50	H	128	179	1.35	1 / 7	17.39	18.74	0.075	36.99	-18.25	16.59	0.046	34.77	-18.18
	QPSK	707.50	H	129	174	1.33	1 / 7	17.79	19.13	0.082	36.99	-17.86	16.98	0.050	34.77	-17.79
	QPSK	714.50	H	130	172	1.32	1 / 7	18.16	19.48	0.089	36.99	-17.51	17.33	0.054	34.77	-17.44
	16-QAM	714.50	H	130	172	1.32	1 / 7	17.52	18.84	0.077	36.99	-18.15	16.69	0.047	34.77	-18.08
1.4 MHz	QPSK	699.70	H	128	179	1.35	1 / 3	17.36	18.71	0.074	36.99	-18.28	16.58	0.045	34.77	-18.21
	QPSK	707.50	H	129	174	1.33	1 / 3	17.60	18.94	0.078	36.99	-18.05	16.79	0.048	34.77	-17.98
	QPSK	715.30	H	130	172	1.32	1 / 0	18.04	19.36	0.086	36.99	-17.63	17.21	0.053	34.77	-17.57
	16-QAM	715.30	H	130	172	1.32	1 / 5	17.42	18.73	0.075	36.99	-18.26	16.58	0.046	34.77	-18.19
10 MHz	QPSK (Opposite Pol.)	711.00	V	164	173	1.33	1 / 49	16.47	17.80	0.060	36.99	-19.19	15.65	0.037	34.77	-19.13
	WCP	711.00	H	130	172	1.33	1 / 49	17.83	19.16	0.082	36.99	-17.83	17.01	0.050	34.77	-17.77

Table 7-21. ERP Data (LTE Band 12 – Ant 0)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.00	H	132	249	1.34	1 / 49	18.66	20.00	0.100	36.99	-16.99	17.85	0.061	34.77	-16.92
	QPSK	707.50	H	130	256	1.33	1 / 49	18.93	20.26	0.106	36.99	-16.73	18.11	0.065	34.77	-16.66
	QPSK	711.00	H	128	251	1.33	1 / 49	19.03	20.36	0.109	36.99	-16.63	18.21	0.066	34.77	-16.57
	16-QAM	711.00	H	128	251	1.33	1 / 49	18.05	19.38	0.087	36.99	-17.61	17.23	0.053	34.77	-17.55
5 MHz	QPSK	701.50	H	132	249	1.35	1 / 24	18.77	20.12	0.103	36.99	-16.87	17.97	0.063	34.77	-16.80
	QPSK	707.50	H	130	256	1.33	1 / 24	18.92	20.25	0.106	36.99	-16.74	18.10	0.065	34.77	-16.67
	QPSK	713.50	H	128	251	1.32	1 / 12	19.05	20.37	0.109	36.99	-16.62	18.22	0.066	34.77	-16.55
	16-QAM	713.50	H	128	251	1.32	1 / 12	17.92	19.24	0.084	36.99	-17.75	17.09	0.051	34.77	-17.68
3 MHz	QPSK	700.50	H	132	249	1.35	1 / 14	18.39	19.74	0.094	36.99	-17.25	17.59	0.057	34.77	-17.18
	QPSK	707.50	H	130	256	1.33	1 / 14	18.73	20.07	0.102	36.99	-16.92	17.92	0.062	34.77	-16.85
	QPSK	714.50	H	128	251	1.32	1 / 7	18.84	20.16	0.104	36.99	-16.83	18.01	0.063	34.77	-16.76
	16-QAM	714.50	H	128	251	1.32	1 / 7	17.96	19.27	0.085	36.99	-17.72	17.12	0.052	34.77	-17.65
1.4 MHz	QPSK	699.70	H	132	249	1.35	1 / 0	18.13	19.48	0.089	36.99	-17.51	17.33	0.054	34.77	-17.44
	QPSK	707.50	H	130	256	1.33	1 / 3	18.52	19.86	0.097	36.99	-17.13	17.71	0.059	34.77	-17.06
	QPSK	715.30	H	128	251	1.32	1 / 3	18.84	20.15	0.104	36.99	-16.84	18.00	0.063	34.77	-16.77
	16-QAM	715.30	H	128	251	1.32	1 / 3	17.88	19.20	0.083	36.99	-17.79	17.05	0.051	34.77	-17.73
10 MHz	QPSK (Opposite Pol.)	711.00	V	159	292	1.33	1 / 25	16.44	17.77	0.060	36.99	-19.22	15.62	0.036	34.77	-19.16
	WCP	711.00	H	128	251	1.33	1 / 49	17.97	19.30	0.085	36.99	-17.69	17.15	0.052	34.77	-17.63

Table 7-22. ERP Data (LTE Band 12 – Ant 6)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.00	V	135	119	1.17	1 / 0	18.74	19.91	0.098	36.99	-17.08	17.76	0.060	34.77	-17.01
	16-QAM	782.00	V	135	119	1.17	1 / 0	17.86	19.03	0.080	36.99	-17.96	16.88	0.049	34.77	-17.89
5 MHz	QPSK	779.50	V	135	119	1.17	1 / 12	18.65	19.82	0.096	36.99	-17.17	17.67	0.058	34.77	-17.10
	QPSK	782.00	V	135	119	1.17	1 / 0	18.70	19.86	0.097	36.99	-17.13	17.71	0.059	34.77	-17.06
	QPSK	784.50	V	135	119	1.16	1 / 0	18.60	19.76	0.095	36.99	-17.23	17.61	0.058	34.77	-17.16
	16-QAM	782.00	V	135	119	1.17	1 / 0	17.50	18.67	0.074	36.99	-18.32	16.52	0.045	34.77	-18.26
10 MHz	QPSK (Opposite Pol.)	782.00	H	119	68	1.17	1 / 0	15.83	17.00	0.050	36.99	-19.99	14.85	0.031	34.77	-19.92
	WCP	782.00	V	142	127	1.17	1 / 0	16.40	17.57	0.057	36.99	-19.42	15.42	0.035	34.77	-19.35

Table 7-23. ERP Data (LTE Band 13 – Ant 0)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.00	H	118	238	1.17	1 / 25	18.92	20.09	0.102	36.99	-16.90	17.94	0.062	34.77	-16.83
	16-QAM	782.00	H	118	238	1.17	1 / 25	17.87	19.04	0.080	36.99	-17.95	16.89	0.049	34.77	-17.88
5 MHz	QPSK	779.50	H	118	238	1.17	1 / 0	18.97	20.15	0.103	36.99	-16.84	18.00	0.063	34.77	-16.77
	QPSK	782.00	H	118	238	1.17	1 / 12	19.05	20.22	0.105	36.99	-16.77	18.07	0.064	34.77	-16.70
	QPSK	784.50	H	118	238	1.16	1 / 24	18.89	20.05	0.101	36.99	-16.94	17.90	0.062	34.77	-16.87
	16-QAM	782.00	H	118	238	1.17	1 / 12	17.78	18.95	0.078	36.99	-18.04	16.80	0.048	34.77	-17.98
10 MHz	QPSK (Opposite Pol.)	782.00	V	135	305	1.17	1 / 25	17.85	19.02	0.080	36.99	-17.97	16.87	0.049	34.77	-17.90
	WCP	782.00	H	118	238	1.17	1 / 0	19.52	20.69	0.117	36.99	-16.30	18.54	0.071	34.77	-16.23

Table 7-24. ERP Data (LTE Band 13 – Ant 6)

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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	WCDMA 1700	V	184	328	14.93	8.40	23.33	0.215	30.00	-6.67
1732.60	WCDMA 1700	V	184	328	15.11	8.02	23.13	0.205	30.00	-6.87
1752.60	WCDMA 1700	V	110	334	15.32	7.71	23.03	0.201	30.00	-6.97
1712.40	WCDMA 1700	H	171	161	13.70	8.40	22.10	0.162	30.00	-7.90
1712.40	WCDMA 1700 (WCP)	V	196	334	14.64	8.40	23.04	0.201	30.00	-6.96

Table 7-25. EIRP Data (WCDMA AWS – Ant 0)

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	V	111	320	8.07	1 / 108	15.42	23.49	0.223	30.00	-6.51
	$\pi/2$ BPSK	1745.00	V	101	335	7.78	1 / 108	15.30	23.08	0.203	30.00	-6.92
	$\pi/2$ BPSK	1760.00	V	101	335	7.78	1 / 108	15.74	23.52	0.225	30.00	-6.48
	QPSK	1730.00	V	111	320	8.07	1 / 108	15.37	23.44	0.221	30.00	-6.56
	QPSK	1745.00	V	101	335	7.78	1 / 108	15.23	23.01	0.200	30.00	-6.99
	QPSK	1760.00	V	101	335	7.78	1 / 108	15.62	23.40	0.219	30.00	-6.60
30 MHz	16-QAM	1760.00	V	101	335	7.78	1 / 108	14.75	22.53	0.179	30.00	-7.47
	$\pi/2$ BPSK	1725.00	V	111	320	8.16	1 / 1	15.38	23.54	0.226	30.00	-6.46
	$\pi/2$ BPSK	1745.00	V	101	335	7.78	1 / 1	15.26	23.05	0.202	30.00	-6.95
	$\pi/2$ BPSK	1765.00	V	101	335	7.82	1 / 80	15.56	23.39	0.218	30.00	-6.61
	QPSK	1725.00	V	111	320	8.16	1 / 1	15.39	23.55	0.226	30.00	-6.45
	QPSK	1745.00	V	101	335	7.78	1 / 1	15.26	23.04	0.201	30.00	-6.96
25 MHz	QPSK	1765.00	V	101	335	7.82	1 / 1	15.59	23.41	0.219	30.00	-6.59
	16-QAM	1725.00	V	111	320	8.16	1 / 1	14.41	22.57	0.181	30.00	-7.43
	$\pi/2$ BPSK	1722.5	V	111	320	8.16	1 / 1	15.38	23.54	0.226	30.00	-6.46
	$\pi/2$ BPSK	1745.0	V	101	335	7.78	1 / 1	15.35	23.13	0.206	30.00	-6.87
	$\pi/2$ BPSK	1767.5	V	101	335	7.82	1 / 1	15.69	23.52	0.225	30.00	-6.48
	QPSK	1722.5	V	111	320	8.16	1 / 1	15.39	23.55	0.227	30.00	-6.45
20 MHz	QPSK	1745.0	V	101	335	7.78	1 / 1	15.25	23.03	0.201	30.00	-6.97
	QPSK	1767.5	V	101	335	7.82	1 / 1	15.46	23.28	0.213	30.00	-6.72
	16-QAM	1722.5	V	111	320	8.16	1 / 1	14.37	22.53	0.179	30.00	-7.47
	$\pi/2$ BPSK	1720.00	V	111	320	8.26	1 / 1	15.22	23.47	0.223	30.00	-6.53
	$\pi/2$ BPSK	1745.00	V	101	335	7.78	1 / 1	15.21	22.99	0.199	30.00	-7.01
	$\pi/2$ BPSK	1770.00	V	101	335	7.87	1 / 1	15.19	23.06	0.202	30.00	-6.94
15 MHz	QPSK	1720.00	V	111	320	8.26	1 / 1	15.18	23.44	0.221	30.00	-6.56
	QPSK	1745.00	V	101	335	7.78	1 / 1	15.14	22.92	0.196	30.00	-7.08
	QPSK	1770.00	V	101	335	7.87	1 / 1	15.13	23.00	0.200	30.00	-7.00
	16-QAM	1720.00	V	111	320	8.26	1 / 1	13.88	22.13	0.163	30.00	-7.87
	$\pi/2$ BPSK	1717.50	V	111	320	8.30	1 / 1	15.26	23.56	0.227	30.00	-6.44
	$\pi/2$ BPSK	1745.00	V	101	335	7.78	1 / 1	15.31	23.10	0.204	30.00	-6.90
10 MHz	$\pi/2$ BPSK	1772.50	V	101	335	7.89	1 / 39	15.33	23.22	0.210	30.00	-6.78
	QPSK	1717.50	V	111	320	8.30	1 / 1	15.17	23.48	0.223	30.00	-6.52
	QPSK	1745.00	V	101	335	7.78	1 / 1	15.26	23.04	0.202	30.00	-6.96
	QPSK	1772.50	V	101	335	7.89	1 / 1	15.32	23.21	0.209	30.00	-6.79
	16-QAM	1717.50	V	111	320	8.30	1 / 1	14.00	22.31	0.170	30.00	-7.69
	$\pi/2$ BPSK	1715.00	V	111	320	8.35	1 / 50	15.17	23.52	0.225	30.00	-6.48
5 MHz	$\pi/2$ BPSK	1745.00	V	101	335	7.78	1 / 50	15.16	22.95	0.197	30.00	-7.05
	$\pi/2$ BPSK	1775.00	V	101	335	7.91	1 / 26	15.51	23.43	0.220	30.00	-6.57
	QPSK	1715.00	V	111	320	8.35	1 / 1	15.15	23.50	0.224	30.00	-6.50
	QPSK	1745.00	V	101	335	7.78	1 / 1	15.22	23.00	0.199	30.00	-7.00
	QPSK	1775.00	V	101	335	7.91	1 / 1	15.36	23.27	0.212	30.00	-6.73
	16-QAM	1715.00	V	111	320	8.35	1 / 1	13.94	22.29	0.169	30.00	-7.71
40 MHz	$\pi/2$ BPSK	1712.50	V	111	320	8.40	1 / 12	15.01	23.41	0.219	30.00	-6.59
	$\pi/2$ BPSK	1745.00	V	101	335	7.78	1 / 12	15.23	23.02	0.200	30.00	-6.98
	$\pi/2$ BPSK	1777.50	V	101	335	7.94	1 / 12	15.35	23.28	0.213	30.00	-6.72
	QPSK	1712.50	V	111	320	8.40	1 / 23	15.05	23.45	0.221	30.00	-6.55
	QPSK	1745.00	V	101	335	7.78	1 / 12	15.00	22.79	0.190	30.00	-7.21
	QPSK	1777.50	V	101	335	7.94	1 / 12	15.23	23.17	0.207	30.00	-6.83
40 MHz	16-QAM	1712.50	V	111	320	8.40	1 / 23	13.88	22.28	0.169	30.00	-7.72
	QPSK (CP-OFDM)	1760.00	V	104	335	7.78	1 / 108	13.75	21.53	0.142	30.00	-8.47
	QPSK (Opposite Pol.)	1760.00	H	166	251	7.78	1 / 108	14.34	22.12	0.163	30.00	-7.88
40 MHz	QPSK (WCP)	1760.00	V	122	341	7.78	1 / 108	13.78	21.56	0.143	30.00	-8.44

Table 7-26. EIRP Data (NR Band n66 – Ant 0)

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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]
40 MHz	$\pi/2$ BPSK	1730.00	H	217	144	8.07	1 / 1	14.83	22.90	0.195	30.00	-7.10
	$\pi/2$ BPSK	1745.00	H	224	145	7.78	1 / 1	14.88	22.66	0.185	30.00	-7.34
	$\pi/2$ BPSK	1760.00	H	222	145	7.78	1 / 1	13.48	21.26	0.134	30.00	-8.74
	QPSK	1730.00	H	217	144	8.07	1 / 1	14.84	22.91	0.195	30.00	-7.09
	QPSK	1745.00	H	224	145	7.78	1 / 1	14.88	22.66	0.185	30.00	-7.34
	QPSK	1760.00	H	222	145	7.78	1 / 1	13.53	21.31	0.135	30.00	-8.69
	16-QAM	1745.00	H	224	145	7.78	1 / 1	14.02	21.80	0.151	30.00	-8.20
30 MHz	$\pi/2$ BPSK	1725.00	H	217	144	8.16	1 / 158	14.87	23.03	0.201	30.00	-6.97
	$\pi/2$ BPSK	1745.00	H	224	145	7.78	1 / 158	14.91	22.69	0.186	30.00	-7.31
	$\pi/2$ BPSK	1765.00	H	222	145	7.82	1 / 158	13.92	21.74	0.149	30.00	-8.26
	QPSK	1725.00	H	217	144	8.16	1 / 80	14.72	22.88	0.194	30.00	-7.12
	QPSK	1745.00	H	224	145	7.78	1 / 1	15.04	22.83	0.192	30.00	-7.17
	QPSK	1765.00	H	222	145	7.82	1 / 158	13.87	21.69	0.148	30.00	-8.31
	16-QAM	1745.00	H	224	145	7.78	1 / 1	14.00	21.78	0.151	30.00	-8.22
25 MHz	$\pi/2$ BPSK	1722.50	H	217	144	8.26	1 / 66	14.30	22.56	0.180	30.00	-7.44
	$\pi/2$ BPSK	1745.00	H	224	145	7.78	1 / 1	14.64	22.42	0.175	30.00	-7.58
	$\pi/2$ BPSK	1767.50	H	222	145	7.87	1 / 131	13.29	21.15	0.130	30.00	-8.85
	QPSK	1722.50	H	217	144	8.26	1 / 1	14.26	22.52	0.179	30.00	-7.48
	QPSK	1745.00	H	224	145	7.78	1 / 1	14.73	22.52	0.179	30.00	-7.48
	QPSK	1767.50	H	222	145	7.87	1 / 1	13.16	21.03	0.127	30.00	-8.97
	16-QAM	1745.00	H	224	145	7.78	1 / 1	13.76	21.54	0.143	30.00	-8.46
20 MHz	$\pi/2$ BPSK	1720.00	H	217	144	8.26	1 / 53	14.99	23.25	0.211	30.00	-6.75
	$\pi/2$ BPSK	1745.00	H	224	145	7.78	1 / 1	15.11	22.90	0.195	30.00	-7.10
	$\pi/2$ BPSK	1770.00	H	222	145	7.87	1 / 53	13.66	21.53	0.142	30.00	-8.47
	QPSK	1720.00	H	217	144	8.26	1 / 53	14.75	23.01	0.200	30.00	-6.99
	QPSK	1745.00	H	224	145	7.78	1 / 1	15.15	22.93	0.196	30.00	-7.07
	QPSK	1770.00	H	222	145	7.87	1 / 53	13.59	21.46	0.140	30.00	-8.54
	16-QAM	1745.00	H	224	145	7.78	1 / 1	14.09	21.87	0.154	30.00	-8.13
15 MHz	$\pi/2$ BPSK	1717.50	H	217	144	8.30	1 / 77	14.66	22.97	0.198	30.00	-7.03
	$\pi/2$ BPSK	1745.00	H	224	145	7.78	1 / 1	14.95	22.74	0.188	30.00	-7.26
	$\pi/2$ BPSK	1772.50	H	222	145	7.89	1 / 39	13.61	21.50	0.141	30.00	-8.50
	QPSK	1717.50	H	217	144	8.30	1 / 1	14.53	22.83	0.192	30.00	-7.17
	QPSK	1745.00	H	224	145	7.78	1 / 1	15.00	22.79	0.190	30.00	-7.21
	QPSK	1772.50	H	222	145	7.89	1 / 1	13.60	21.50	0.141	30.00	-8.50
	16-QAM	1745.00	H	224	145	7.78	1 / 1	14.19	21.97	0.158	30.00	-8.03
10 MHz	$\pi/2$ BPSK	1715.00	H	217	144	8.35	1 / 26	14.50	22.85	0.193	30.00	-7.15
	$\pi/2$ BPSK	1745.00	H	224	145	7.78	1 / 26	14.69	22.47	0.177	30.00	-7.53
	$\pi/2$ BPSK	1775.00	H	222	145	7.91	1 / 1	13.69	21.61	0.145	30.00	-8.39
	QPSK	1715.00	H	217	144	8.35	1 / 1	14.40	22.75	0.189	30.00	-7.25
	QPSK	1745.00	H	224	145	7.78	1 / 1	14.90	22.68	0.186	30.00	-7.32
	QPSK	1775.00	H	222	145	7.91	1 / 26	13.69	21.61	0.145	30.00	-8.39
	16-QAM	1745.00	H	224	145	7.78	1 / 1	13.90	21.68	0.147	30.00	-8.32
5 MHz	$\pi/2$ BPSK	1712.50	H	217	144	8.40	1 / 12	14.37	22.77	0.189	30.00	-7.23
	$\pi/2$ BPSK	1745.00	H	224	145	7.78	1 / 12	14.66	22.44	0.175	30.00	-7.56
	$\pi/2$ BPSK	1777.50	H	222	145	7.94	1 / 12	13.60	21.54	0.142	30.00	-8.46
	QPSK	1712.50	H	217	144	8.40	1 / 12	14.16	22.56	0.180	30.00	-7.44
	QPSK	1745.00	H	224	145	7.78	1 / 12	14.82	22.61	0.182	30.00	-7.39
	QPSK	1777.50	H	222	145	7.94	1 / 1	13.66	21.60	0.145	30.00	-8.40
	16-QAM	1745.00	H	224	145	7.78	1 / 12	13.79	21.57	0.144	30.00	-8.43
40 MHz	QPSK (CP-OFDM)	1730.00	H	215	143	8.07	1 / 1	13.38	21.45	0.140	30.00	-8.55
	QPSK (Opposite Pol.)	1730.00	V	137	340	8.07	1 / 1	14.71	22.78	0.189	30.00	-7.22
	QPSK (WCP)	1730.00	H	217	144	8.07	1 / 1	14.76	22.83	0.192	30.00	-7.17

Table 7-27. EIRP Data (NR Band n66 – Ant 7)

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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	QPSK	1720.00	V	120	335	8.26	1 / 0	16.78	25.04	0.319	30.00	-4.96
	QPSK	1745.00	V	120	331	7.78	1 / 0	16.17	23.95	0.249	30.00	-6.05
	QPSK	1770.00	V	116	333	7.87	1 / 0	15.69	23.56	0.227	30.00	-6.44
	16-QAM	1720.00	V	120	335	8.26	1 / 0	15.99	24.25	0.266	30.00	-5.75
15 MHz	QPSK	1717.50	V	120	335	8.30	1 / 37	16.71	25.01	0.317	30.00	-4.99
	QPSK	1745.00	V	120	331	7.78	1 / 37	16.29	24.07	0.256	30.00	-5.93
	QPSK	1772.50	V	116	333	7.89	1 / 74	15.78	23.67	0.233	30.00	-6.33
	16-QAM	1717.50	V	120	335	8.30	1 / 37	15.79	24.10	0.257	30.00	-5.90
10 MHz	QPSK	1715.00	V	120	335	8.35	1 / 0	16.74	25.09	0.323	30.00	-4.91
	QPSK	1745.00	V	120	331	7.78	1 / 0	16.33	24.12	0.258	30.00	-5.88
	QPSK	1775.00	V	116	333	7.91	1 / 25	15.72	23.64	0.231	30.00	-6.36
	16-QAM	1715.00	V	120	335	8.35	1 / 0	15.68	24.03	0.253	30.00	-5.97
5 MHz	QPSK	1712.50	V	120	335	8.40	1 / 24	16.65	25.05	0.320	30.00	-4.95
	QPSK	1745.00	V	120	331	7.78	1 / 12	16.42	24.20	0.263	30.00	-5.80
	QPSK	1777.50	V	116	333	7.94	1 / 12	15.89	23.83	0.241	30.00	-6.17
	16-QAM	1712.50	V	120	335	8.40	1 / 24	15.63	24.03	0.253	30.00	-5.97
3 MHz	QPSK	1711.50	V	120	335	8.42	1 / 14	16.50	24.92	0.310	30.00	-5.08
	QPSK	1745.00	V	120	331	7.78	1 / 7	16.37	24.15	0.260	30.00	-5.85
	QPSK	1778.50	V	116	333	7.95	1 / 7	15.55	23.49	0.224	30.00	-6.51
	16-QAM	1711.50	V	120	335	8.42	1 / 14	15.60	24.02	0.252	30.00	-5.98
1.4 MHz	QPSK	1710.70	V	120	335	8.43	1 / 3	16.51	24.94	0.312	30.00	-5.06
	QPSK	1745.00	V	120	331	7.78	1 / 3	15.99	23.77	0.238	30.00	-6.23
	QPSK	1779.30	V	116	333	7.95	1 / 5	15.58	23.53	0.225	30.00	-6.47
	16-QAM	1710.70	V	120	335	8.43	1 / 3	15.63	24.06	0.255	30.00	-5.94
20 MHz	QPSK (Opposite Pol.)	1720.00	H	166	157	8.26	1 / 0	15.08	23.34	0.216	30.00	-6.66
	WCP	1720.00	V	120	335	8.26	1 / 0	12.92	21.18	0.131	30.00	-8.82

Table 7-28. EIRP Data (LTE Band 66/4 – Ant 0)

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	101	313	8.26	1 / 99	13.94	22.20	0.166	30.00	-7.80
	QPSK	1745.00	H	101	313	7.78	1 / 0	13.30	21.08	0.128	30.00	-8.92
	QPSK	1770.00	H	101	304	7.87	1 / 99	13.28	21.15	0.130	30.00	-8.85
	16-QAM	1720.00	H	101	313	8.26	1 / 99	12.91	21.17	0.131	30.00	-8.83
15 MHz	QPSK	1717.50	H	101	313	8.30	1 / 37	13.81	22.11	0.163	30.00	-7.89
	QPSK	1745.00	H	101	313	7.78	1 / 0	13.45	21.23	0.133	30.00	-8.77
	QPSK	1772.50	H	101	304	7.89	1 / 74	13.21	21.11	0.129	30.00	-8.89
	16-QAM	1717.50	H	101	313	8.30	1 / 37	12.87	21.17	0.131	30.00	-8.83
10 MHz	QPSK	1715.00	H	101	313	8.35	1 / 25	13.85	22.20	0.166	30.00	-7.80
	QPSK	1745.00	H	101	313	7.78	1 / 25	13.36	21.14	0.130	30.00	-8.86
	QPSK	1775.00	H	101	304	7.91	1 / 49	13.29	21.21	0.132	30.00	-8.79
	16-QAM	1715.00	H	101	313	8.35	1 / 25	12.71	21.06	0.128	30.00	-8.94
5 MHz	QPSK	1712.50	H	101	313	8.40	1 / 24	13.94	22.34	0.171	30.00	-7.66
	QPSK	1745.00	H	101	313	7.78	1 / 24	13.37	21.15	0.130	30.00	-8.85
	QPSK	1777.50	H	101	304	7.94	1 / 24	13.46	21.39	0.138	30.00	-8.61
	16-QAM	1712.50	H	101	313	8.40	1 / 24	12.93	21.33	0.136	30.00	-8.67
3 MHz	QPSK	1711.50	H	101	313	8.42	1 / 14	13.92	22.34	0.171	30.00	-7.66
	QPSK	1745.00	H	101	313	7.78	1 / 14	13.40	21.18	0.131	30.00	-8.82
	QPSK	1778.50	H	101	304	7.95	1 / 7	13.43	21.38	0.137	30.00	-8.62
	16-QAM	1711.50	H	101	313	8.42	1 / 14	12.84	21.25	0.133	30.00	-8.75
1.4 MHz	QPSK	1710.70	H	101	313	8.43	1 / 5	13.77	22.20	0.166	30.00	-7.80
	QPSK	1745.00	H	101	313	7.78	1 / 0	13.29	21.07	0.128	30.00	-8.93
	QPSK	1779.30	H	101	304	7.95	1 / 0	13.32	21.27	0.134	30.00	-8.73
	16-QAM	1710.70	H	101	313	8.43	1 / 5	12.84	21.27	0.134	30.00	-8.73
20 MHz	QPSK (Opposite Pol.)	1720.00	V	133	330	8.26	1 / 99	12.42	20.68	0.117	30.00	-9.32
	WCP	1720.00	H	129	284	8.26	1 / 99	11.95	20.21	0.105	30.00	-9.79

Table 7-29. EIRP Data (LTE Band 66/4 – Ant 7)

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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

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Test Setup

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

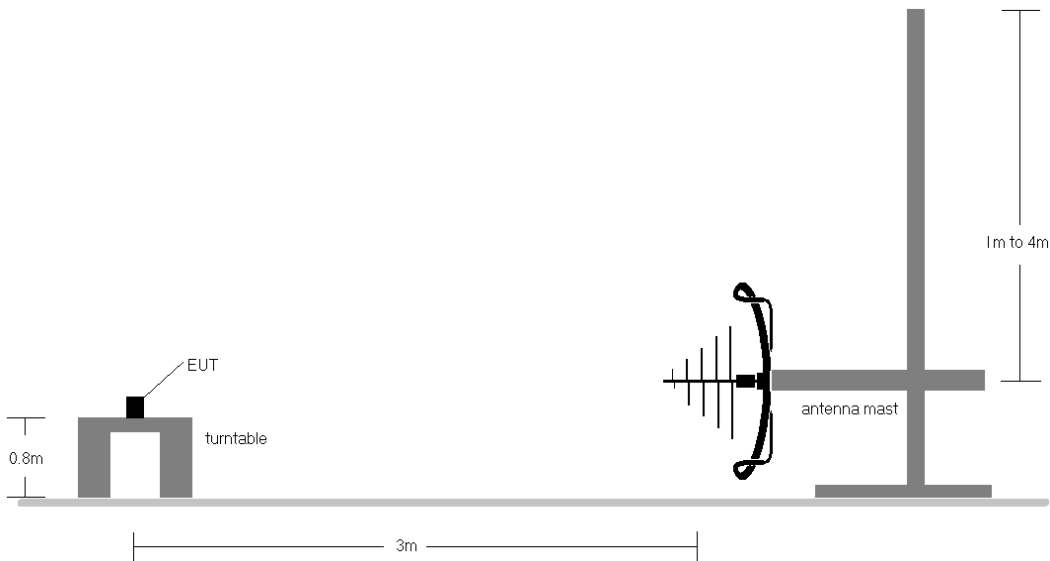


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

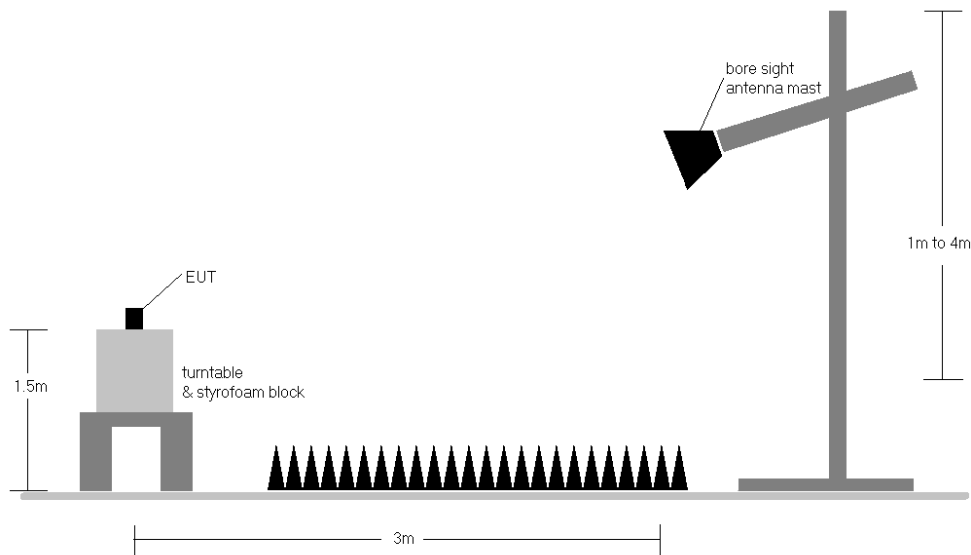


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

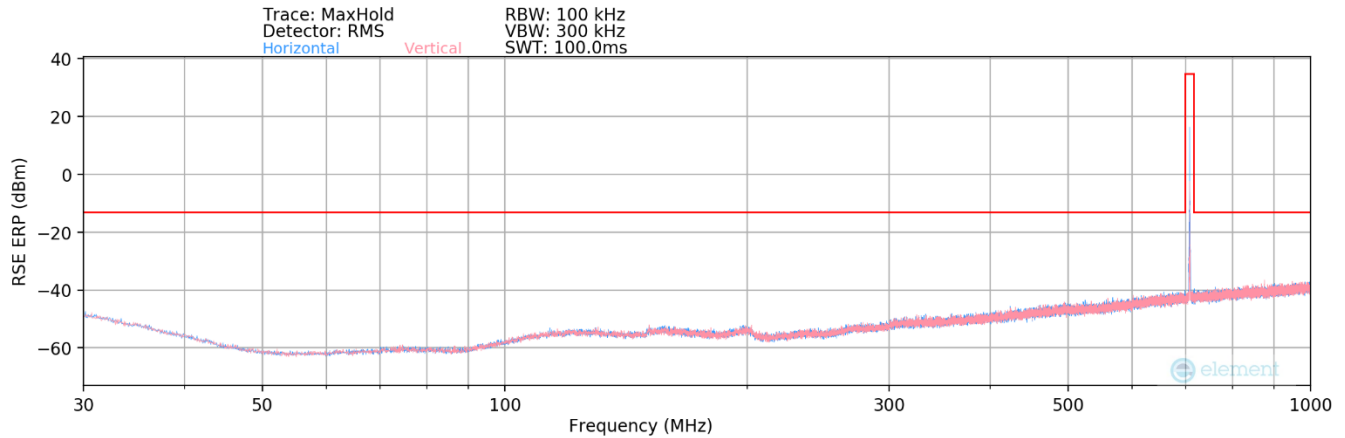
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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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) 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.
- 8) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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LTE Band 12 – Ant 0

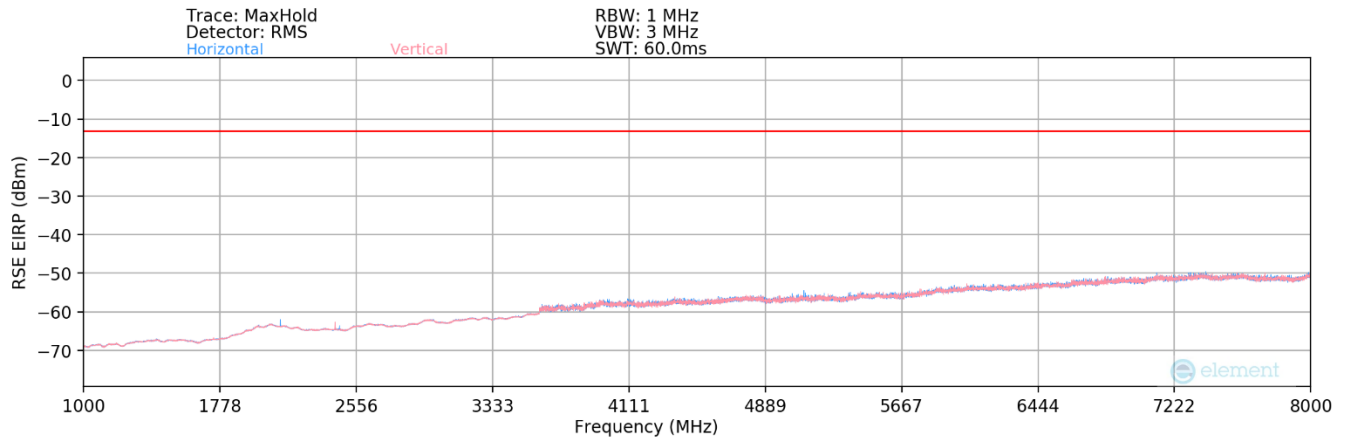


Plot 7-166. Radiated Spurious Plot Below 1GHz (LTE Band 12 – Ant 0)

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
195.70	H	-	-	-108.78	19.57	17.79	-79.62	-13.00	-66.62

Table 7-30. Radiated Spurious Data Below 1GHz (LTE Band 12 – Ant 0)



Plot 7-167. Radiated Spurious Plot Above 1GHz (LTE Band 12 – Ant 0)

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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	H	168	342	-72.33	-6.80	27.87	-67.39	-13.00	-54.39
2112.00	H	233	214	-74.51	-2.83	29.66	-65.60	-13.00	-52.60
2816.00	H	-	-	-77.74	-2.91	26.35	-68.91	-13.00	-55.91
3520.00	H	-	-	-77.93	-0.45	28.62	-66.64	-13.00	-53.64
4224.00	H	-	-	-77.77	1.43	30.66	-64.60	-13.00	-51.60

Table 7-31. Radiated Spurious Data Above 1GHz (LTE Band 12 – Low Channel – Ant 0)

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	H	176	341	-74.95	-6.86	25.19	-70.07	-13.00	-57.07
2122.50	H	196	201	-72.82	-2.97	31.21	-64.05	-13.00	-51.05
2830.00	H	-	-	-77.92	-2.85	26.23	-69.03	-13.00	-56.03
3537.50	H	-	-	-77.93	-0.17	28.90	-66.36	-13.00	-53.36
4245.00	H	-	-	-78.07	1.50	30.43	-64.83	-13.00	-51.83

Table 7-32. Radiated Spurious Data Above 1GHz (LTE Band 12 – Mid Channel – Ant 0)

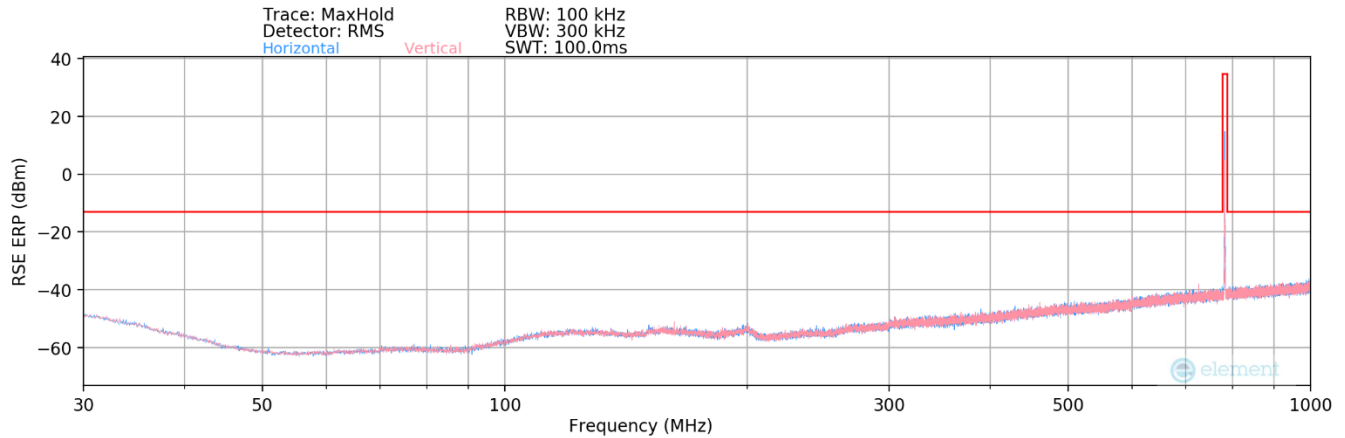
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

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	H	216	154	-76.42	-6.90	23.68	-71.57	-13.00	-58.57
2133.00	H	149	187	-73.24	-3.11	30.65	-64.61	-13.00	-51.61
2844.00	H	-	-	-77.71	-2.80	26.49	-68.76	-13.00	-55.76
3555.00	H	-	-	-77.94	-0.04	29.02	-66.24	-13.00	-53.24
4266.00	H	-	-	-78.29	1.56	30.27	-64.99	-13.00	-51.99

Table 7-33. Radiated Spurious Data Above 1GHz (LTE Band 12 – High Channel – Ant 0)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 137 of 160

LTE Band 13 – Ant 0

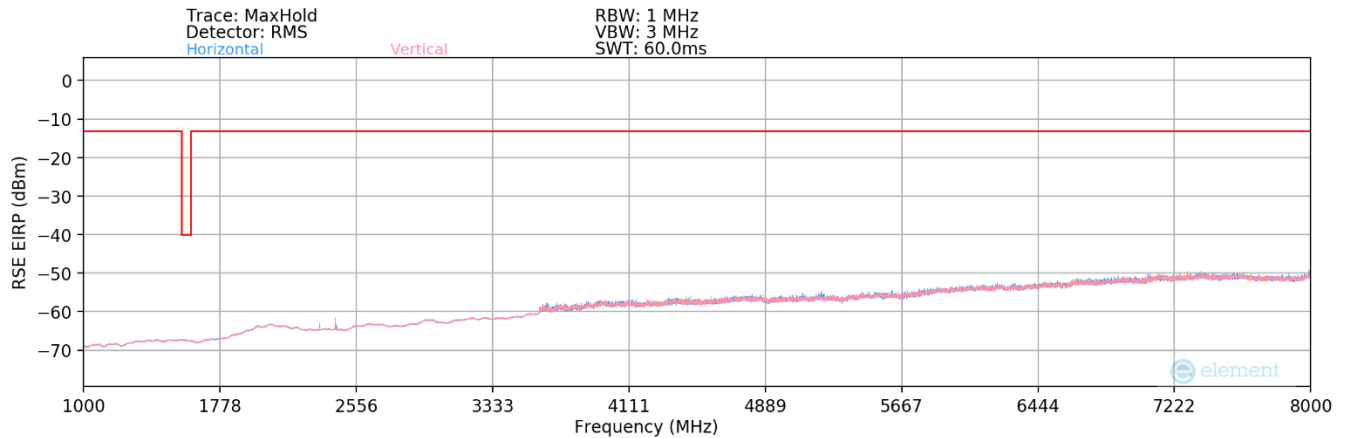


Plot 7-168. Radiated Spurious Plot Below 1GHz (LTE Band 13 – Ant 0)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
195.30	H	-	-	-108.21	19.34	18.13	-79.27	-13.00	-66.27

Table 7-34. Radiated Spurious Data Below 1GHz (LTE Band 13 – Ant 0)



Plot 7-169. Radiated Spurious Plot Above 1GHz (LTE Band 13 – Ant 0)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 138 of 160

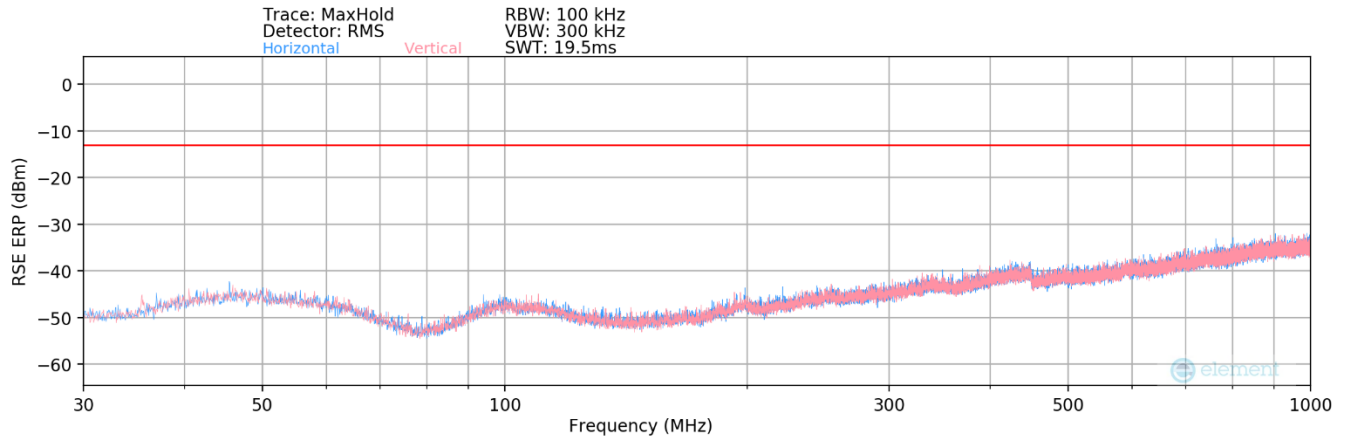
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	H	-	-	-76.84	-6.76	23.40	-71.85	-40.00	-31.85
2346.00	H	116	215	-72.03	-3.91	31.06	-64.20	-13.00	-51.20
3128.00	H	-	-	-77.71	-1.74	27.55	-67.71	-13.00	-54.71
3910.00	H	-	-	-78.70	1.28	29.58	-65.67	-13.00	-52.67
4692.00	H	-	-	-78.37	2.73	31.36	-63.90	-13.00	-50.90

Table 7-35. Radiated Spurious Data Above 1GHz (LTE Band 13 – Ant 0)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 139 of 160

WCDMA AWS – Ant 0

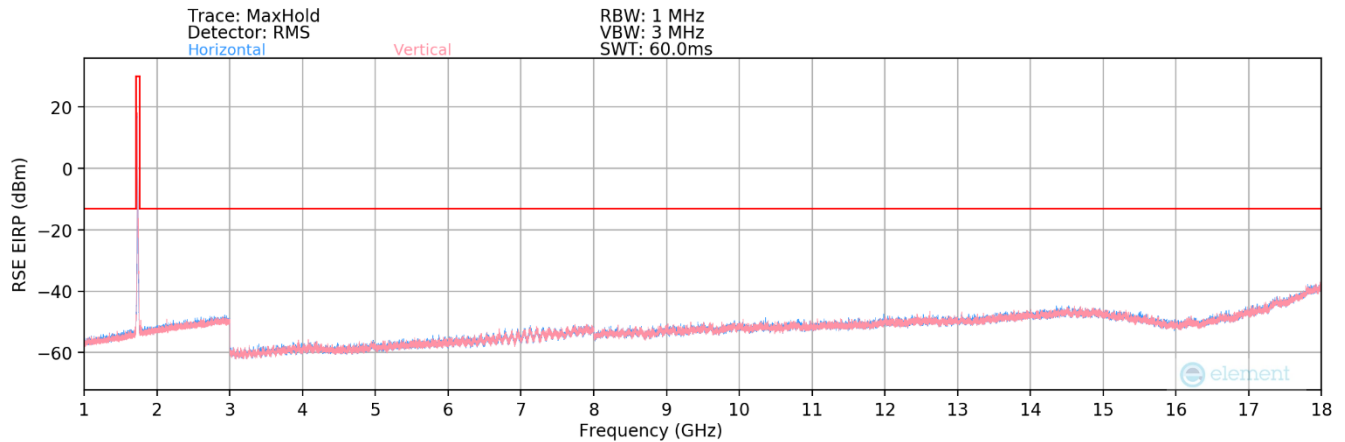


Plot 7-170. Radiated Spurious Plot Below 1GHz (WCDMA AWS – Ant 0)

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
969.18	H	-	-	-82.26	30.86	55.60	-41.81	-13.00	-28.81

7-36. Radiated Spurious Data Below 1GHz (WCDMA AWS – Ant 0)



Plot 7-171. Radiated Spurious Plot Above 1GHz (WCDMA AWS – Ant 0)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 140 of 160

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	-	-	-75.15	-1.55	30.30	-64.96	-13.00	-51.96
5137.20	H	-	-	-75.82	0.49	31.67	-63.58	-13.00	-50.58
6849.60	H	-	-	-76.12	4.88	35.76	-59.50	-13.00	-46.50

7-37. Radiated Spurious Data Above 1GHz (WCDMA AWS – Low Channel – Ant 0)

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	-	-	-74.93	-1.69	30.38	-64.88	-13.00	-51.88
5197.80	H	-	-	-75.32	1.42	33.10	-62.16	-13.00	-49.16
6930.40	H	-	-	-75.93	4.78	35.85	-59.41	-13.00	-46.41

Table 7-38. Radiated Spurious Data Above 1GHz (WCDMA AWS – Mid Channel – Ant 0)

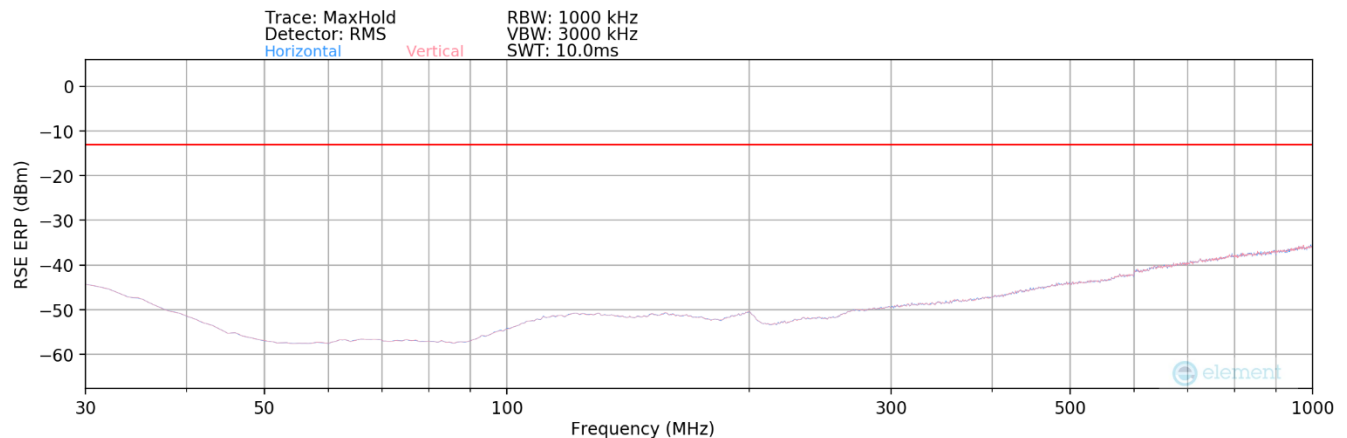
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

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	-	-	-75.02	-1.42	30.56	-64.70	-13.00	-51.70
5257.80	H	-	-	-75.63	1.25	32.62	-62.64	-13.00	-49.64
7010.40	H	-	-	-75.81	4.90	36.09	-59.17	-13.00	-46.17

Table 7-39. Radiated Spurious Data Above 1GHz (WCDMA AWS – High Channel – Ant 0)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 141 of 160

LTE Band 66/4 – Ant 0

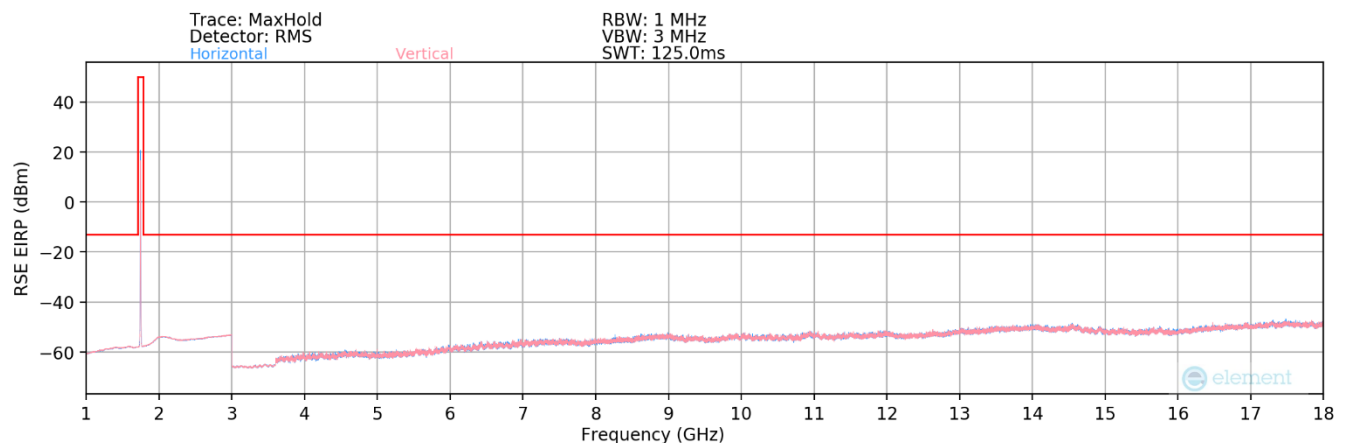


Plot 7-172. Radiated Spurious Plot Below 1GHz (LTE Band 66/4 – Ant 0)

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
196.10	V	-	-	-100.86	19.72	25.86	-71.54	-13.00	-58.54

Table 7-40. Radiated Spurious Data Below 1GHz (LTE Band 66/4 – Ant 0)



Plot 7-173. Radiated Spurious Plot Above 1GHz (LTE Band 66/4 – Ant 0)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 142 of 160

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	-	-	-78.05	0.26	29.21	-66.04	-13.00	-53.04
5160.00	V	-	-	-79.38	3.27	30.89	-64.37	-13.00	-51.37
6880.00	V	-	-	-79.55	8.28	35.73	-59.53	-13.00	-46.53

Table 7-41. Radiated Spurious Data Above 1GHz (LTE Band 66/4 – Low Channel – Ant 0)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	-	-	-79.42	-0.08	27.50	-67.75	-13.00	-54.75
5235.00	V	-	-	-79.42	3.24	30.82	-64.44	-13.00	-51.44
6980.00	V	-	-	-79.67	7.55	34.88	-60.37	-13.00	-47.37

Table 7-42. Radiated Spurious Data Above 1GHz (LTE Band 66/4 – Mid Channel – Ant 0)

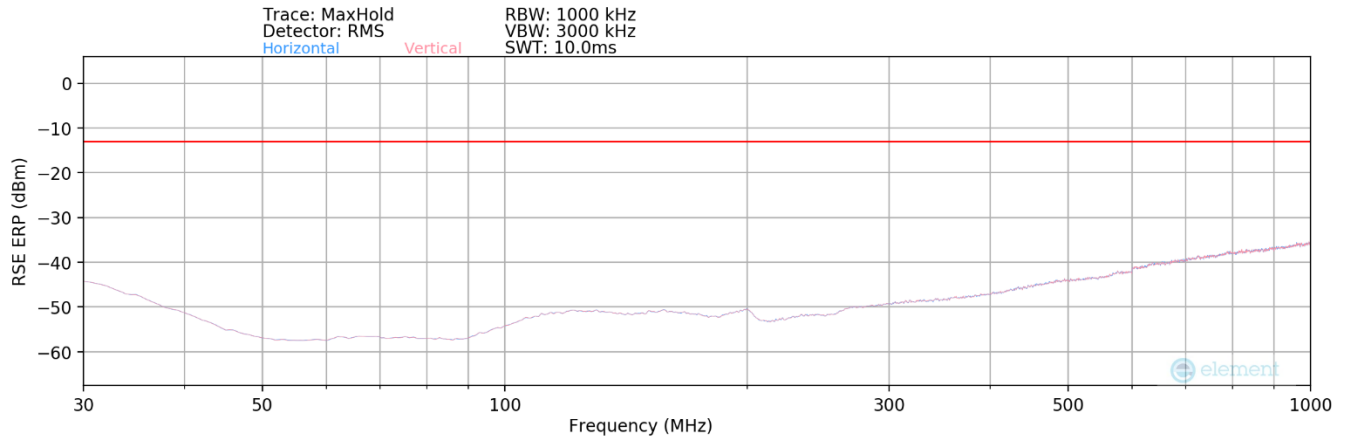
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

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	-	-	-77.69	-0.26	29.05	-66.21	-13.00	-53.21
5310.00	V	-	-	-79.26	3.07	30.81	-64.45	-13.00	-51.45
7080.00	V	-	-	-79.13	8.25	36.12	-59.14	-13.00	-46.14

Table 7-43. Radiated Spurious Data Above 1GHz (LTE Band 66/4 – High Channel – Ant 0)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 143 of 160

NR Band n66 – Ant 0

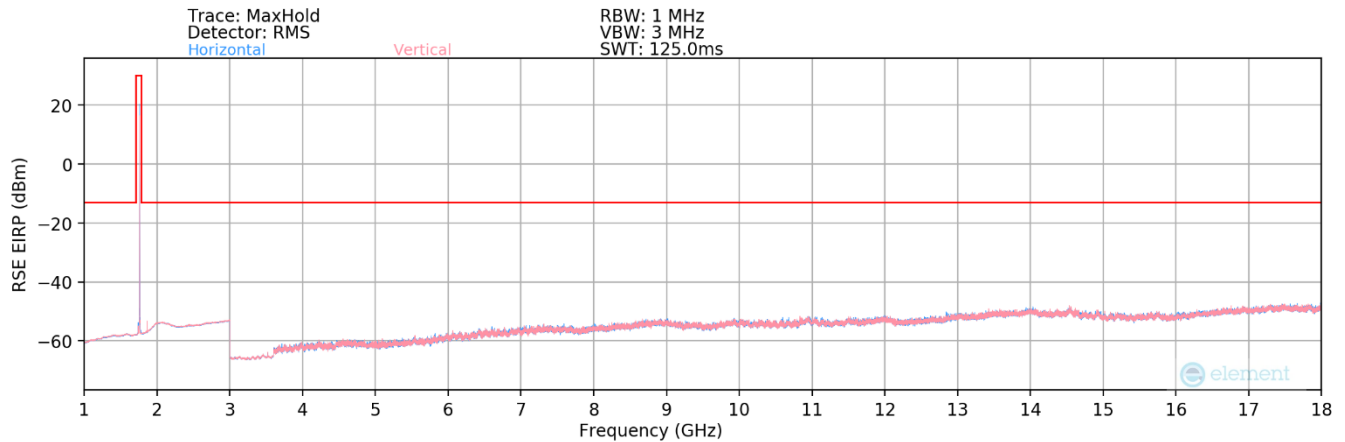


Plot 7-174. Radiated Spurious Plot Below 1GHz (NR Band n66 – Ant 0)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
198.30	V	-	-	-99.23	0.28	8.05	-89.36	-13.00	-76.36

Table 7-44. Radiated Spurious Data Below 1GHz (NR Band n66 – Ant 0)



Plot 7-175. Radiated Spurious Plot Above 1GHz (NR Band n66 – Ant 0)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 144 of 160

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.00	V	120	87	-73.91	0.28	33.37	-61.89	-13.00	-48.89
5190.00	V	128	31	-73.67	0.28	33.61	-61.65	-13.00	-48.65
6920.00	V	-	-	-79.99	0.28	27.29	-67.97	-13.00	-54.97
8650.00	V	-	-	-81.06	0.28	26.22	-69.04	-13.00	-56.04
10380.00	V	-	-	-81.51	0.28	25.77	-69.49	-13.00	-56.49

Table 7-45. Radiated Spurious Data Above 1GHz (NR Band n66 – Low Channel – Ant 0)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	149	81	-76.96	0.28	30.32	-64.94	-13.00	-51.94
5235.00	V	112	29	-74.89	0.28	32.39	-62.87	-13.00	-49.87
6980.00	V	-	-	-78.92	0.28	28.36	-66.90	-13.00	-53.90
8725.00	V	-	-	-80.45	0.28	26.83	-68.43	-13.00	-55.43
10470.00	V	-	-	-81.73	0.28	25.55	-69.71	-13.00	-56.71

Table 7-46. Radiated Spurious Data Above 1GHz (NR Band n66 – Mid Channel – Ant 0)

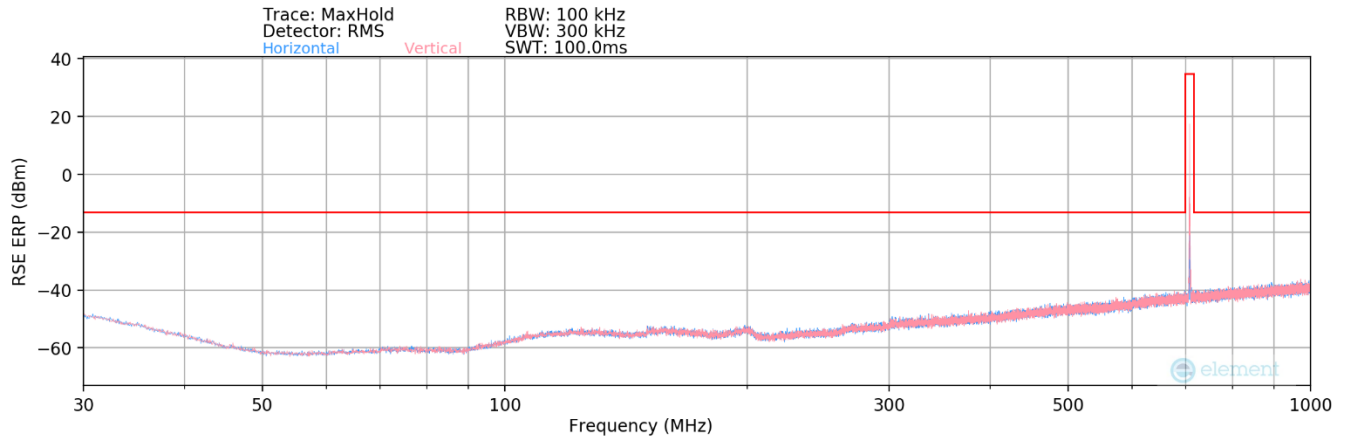
Bandwidth (MHz):	40
Frequency (MHz):	1760
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.00	V	145	86	-78.12	0.28	29.16	-66.10	-13.00	-53.10
5280.00	V	116	33	-73.66	0.28	33.62	-61.64	-13.00	-48.64
7040.00	V	-	-	-78.99	0.28	28.29	-66.97	-13.00	-53.97
8800.00	V	-	-	-79.30	0.28	27.98	-67.28	-13.00	-54.28
10560.00	V	-	-	-84.60	0.28	22.68	-72.58	-13.00	-59.58

Table 7-47. Radiated Spurious Data Above 1GHz (NR Band n66 – High Channel – Ant 0)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 145 of 160

LTE Band 12 – Ant 6

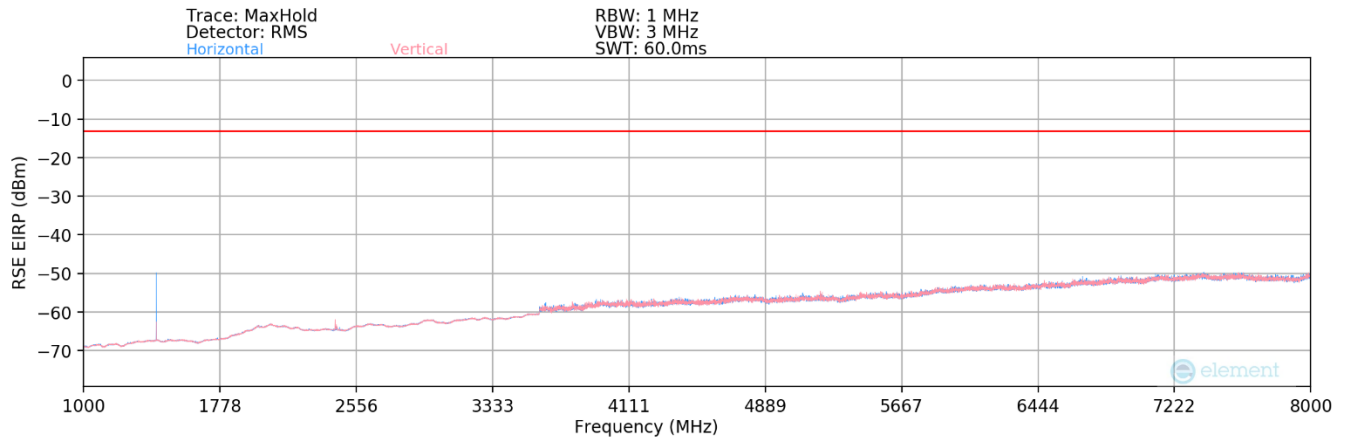


Plot 7-176. Radiated Spurious Plot Below 1GHz (LTE Band 12 – Ant 6)

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
197.10	H	-	-	-107.89	19.63	18.74	-78.67	-13.00	-65.67

Table 7-48. Radiated Spurious Data Below 1GHz (LTE Band 12 – Ant 6)



Plot 7-177. Radiated Spurious Plot Above 1GHz (LTE Band 12 – Ant 6)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset		Page 146 of 160

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	H	177	221	-54.74	-4.05	48.21	-47.04	-13.00	-34.04
2112.00	H	-	-	-77.39	-0.27	29.34	-65.92	-13.00	-52.92
2816.00	H	-	-	-77.53	1.73	31.20	-64.06	-13.00	-51.06
3520.00	H	-	-	-77.86	2.32	31.46	-63.80	-13.00	-50.80

Table 7-49. Radiated Spurious Data Above 1GHz (LTE Band 12 – Low Channel – Ant 6)

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	H	177	226	-52.98	-4.17	49.85	-45.41	-13.00	-32.41
2122.50	H	-	-	-77.18	-0.12	29.70	-65.56	-13.00	-52.56
2830.00	H	-	-	-77.79	1.36	30.57	-64.68	-13.00	-51.68
3537.50	H	-	-	-77.99	2.38	31.39	-63.87	-13.00	-50.87

Table 7-50. Radiated Spurious Data Above 1GHz (LTE Band 12 – Mid Channel – Ant 6)

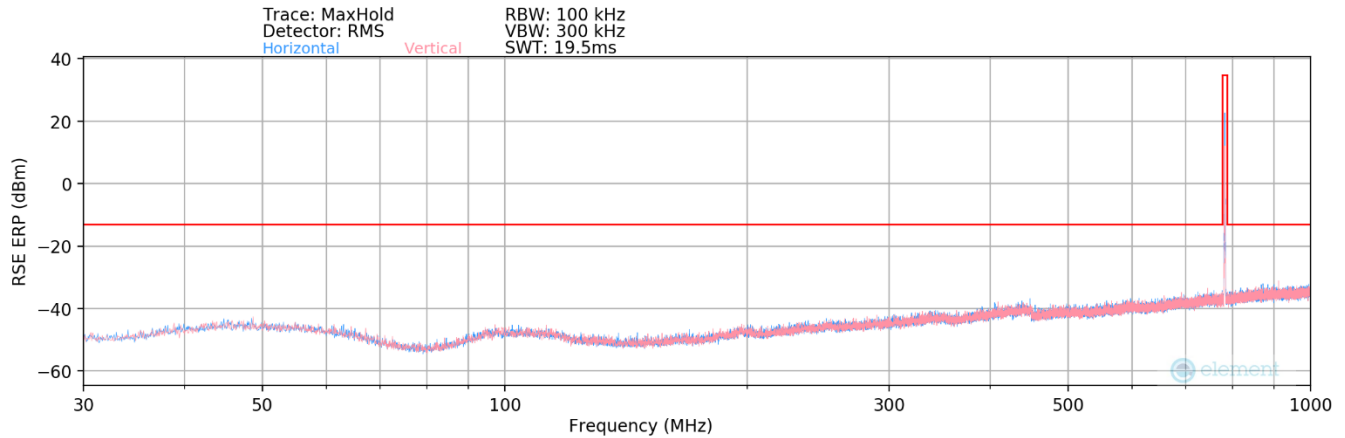
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

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	H	167	219	-55.31	-4.21	47.48	-47.77	-13.00	-34.77
2133.00	H	-	-	-77.02	0.04	30.02	-65.23	-13.00	-52.23
2844.00	H	-	-	-77.74	1.24	30.50	-64.76	-13.00	-51.76
3555.00	H	-	-	-77.90	2.50	31.60	-63.65	-13.00	-50.65

Table 7-51. Radiated Spurious Data Above 1GHz (LTE Band 12 – High Channel – Ant 6)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset		Page 147 of 160

LTE Band 13 – Ant 6

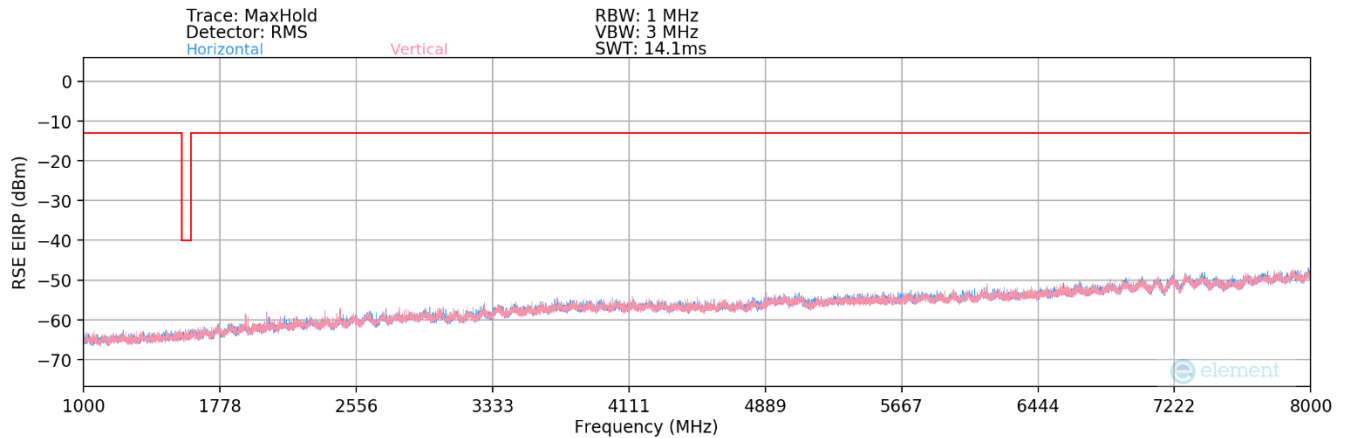


Plot 7-178. Radiated Spurious Plot Below 1GHz (LTE Band 13 – Ant 6)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
986.13	H	-	-	-82.17	31.01	55.84	-41.57	-13.00	-28.57

Table 7-52. Radiated Spurious Data Below 1GHz (LTE Band 13 – Ant 6)



Plot 7-179. Radiated Spurious Plot Above 1GHz (LTE Band 13 – Ant 6)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset		Page 148 of 160

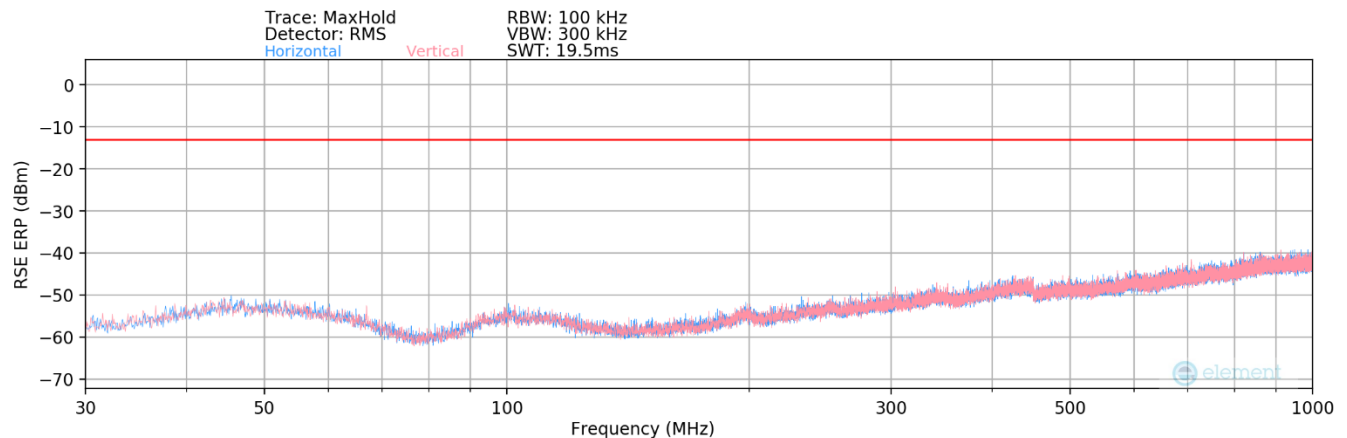
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	H	-	-	-74.11	-9.24	23.65	-71.61	-40.00	-31.61
2346.00	H	-	-	-75.48	-5.79	25.73	-69.53	-13.00	-56.53
3128.00	H	-	-	-75.33	-3.39	28.28	-66.98	-13.00	-53.98

Table 7-53. Radiated Spurious Data Above 1GHz (LTE Band 13 – Ant 6)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-03.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 149 of 160

LTE Band 66/4 – Ant 7

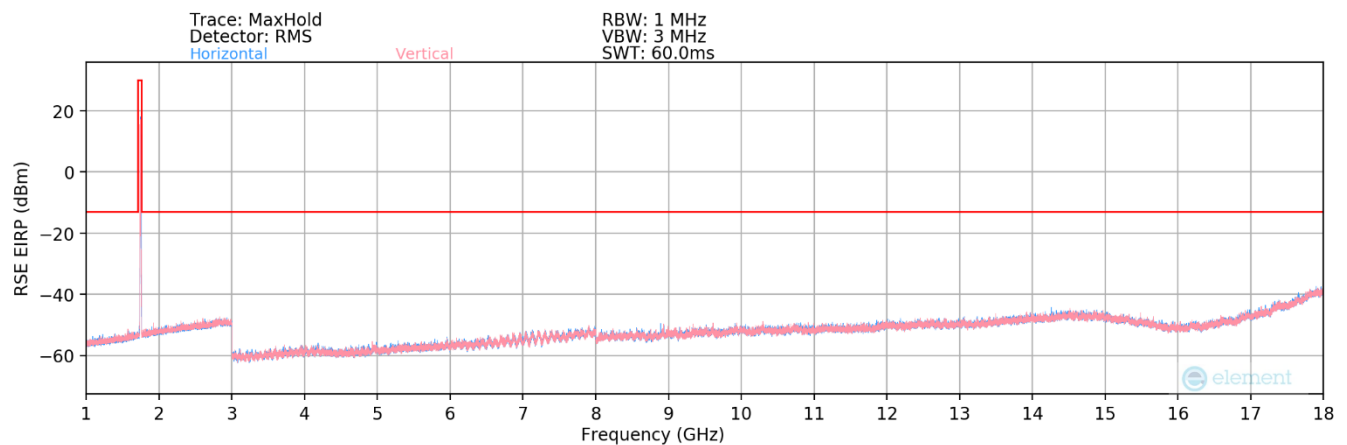


Plot 7-180. Radiated Spurious Plot Below 1GHz (LTE Band 66/4 – Ant 7)

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
992.13	H	-	-	-82.28	31.13	55.85	-41.55	-13.00	-28.55

Table 7-54. Radiated Spurious Data Below 1GHz (LTE Band 66/4 – Ant 7)



Plot 7-181. Radiated Spurious Plot Above 1GHz (LTE Band 66/4 – Ant 7)

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