

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]
10 MHz	$\pi/2$ BPSK	2310.0	H	100	134	9.16	1 / 50	12.97	22.13	0.163	23.98	-1.85
	QPSK	2310.0	H	100	134	9.16	1 / 50	13.06	22.22	0.167	23.98	-1.76
	16-QAM	2310.0	H	100	134	9.16	1 / 50	11.90	21.06	0.128	23.98	-2.92
5 MHz	$\pi/2$ BPSK	2307.5	H	100	134	9.16	1 / 23	12.72	21.88	0.154	23.98	-2.10
	$\pi/2$ BPSK	2310.0	H	100	134	9.16	1 / 23	12.70	21.86	0.153	23.98	-2.12
	$\pi/2$ BPSK	2312.5	H	100	134	9.17	1 / 12	12.81	21.98	0.158	23.98	-2.00
	QPSK	2307.5	H	100	134	9.16	1 / 23	12.30	21.46	0.140	23.98	-2.52
	QPSK	2310.0	H	100	134	9.16	1 / 23	12.86	22.02	0.159	23.98	-1.96
	QPSK	2312.5	H	100	134	9.17	1 / 12	13.11	22.28	0.169	23.98	-1.70
	16-QAM	2307.5	H	100	134	9.16	1 / 23	11.97	21.13	0.130	23.98	-2.85
	16-QAM	2310.0	H	100	134	9.16	1 / 23	12.30	21.46	0.140	23.98	-2.52
	16-QAM	2312.5	H	100	134	9.17	1 / 12	12.43	21.59	0.144	23.98	-2.38
10 MHz	QPSK (CP-OFDM)	2310.0	H	101	131	9.16	1 / 50	11.86	21.02	0.126	23.98	-2.96

Table 7-13. EIRP Data (NR Band n30 – Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 107 of 138

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]
100 MHz	$\pi/2$ BPSK	2546.01	V	115	132	9.17	1 / 271	16.75	25.92	0.391	33.01	-7.09
	$\pi/2$ BPSK	2592.99	V	112	130	9.25	1 / 136	16.72	25.97	0.395	33.01	-7.05
	$\pi/2$ BPSK	2640.00	V	110	131	9.32	1 / 1	16.28	25.60	0.363	33.01	-7.41
	QPSK	2546.01	V	115	132	9.17	1 / 271	16.65	25.82	0.382	33.01	-7.19
	QPSK	2592.99	V	112	130	9.25	1 / 136	16.07	25.32	0.340	33.01	-7.70
	QPSK	2640.00	V	110	131	9.32	1 / 1	16.27	25.59	0.362	33.01	-7.42
90 MHz	16-QAM	2640.00	V	110	131	9.32	1 / 1	15.08	24.40	0.276	33.01	-8.61
	$\pi/2$ BPSK	2541.00	V	115	132	9.16	1 / 122	16.65	25.81	0.381	33.01	-7.20
	$\pi/2$ BPSK	2592.99	V	112	130	9.25	1 / 243	16.76	26.00	0.398	33.01	-7.01
	$\pi/2$ BPSK	2644.98	V	110	131	9.33	1 / 122	16.00	25.33	0.341	33.01	-7.68
	QPSK	2541.00	V	115	132	9.16	1 / 122	16.81	25.97	0.395	33.01	-7.04
	QPSK	2592.99	V	112	130	9.25	1 / 243	16.42	25.67	0.369	33.01	-7.34
80 MHz	QPSK	2644.98	V	110	131	9.33	1 / 122	16.03	25.37	0.344	33.01	-7.65
	16-QAM	2592.99	V	112	130	9.25	1 / 243	15.69	24.93	0.311	33.01	-8.08
	$\pi/2$ BPSK	2536.02	V	115	132	9.15	1 / 108	16.62	25.77	0.378	33.01	-7.24
	$\pi/2$ BPSK	2592.99	V	112	130	9.25	1 / 215	16.56	25.80	0.380	33.01	-7.21
	$\pi/2$ BPSK	2649.99	V	110	131	9.34	1 / 108	16.25	25.59	0.362	33.01	-7.42
	QPSK	2536.02	V	115	132	9.15	1 / 108	16.76	25.91	0.390	33.01	-7.10
70 MHz	QPSK	2592.99	V	112	130	9.25	1 / 1	16.23	25.47	0.353	33.01	-7.54
	QPSK	2649.99	V	110	131	9.34	1 / 108	16.41	25.75	0.375	33.01	-7.27
	16-QAM	2649.99	V	110	131	9.34	1 / 108	14.59	23.93	0.247	33.01	-9.08
	$\pi/2$ BPSK	2531.01	V	115	132	9.14	1 / 187	16.56	25.70	0.371	33.01	-7.31
	$\pi/2$ BPSK	2592.99	V	112	130	9.25	1 / 1	16.61	25.86	0.385	33.01	-7.15
	$\pi/2$ BPSK	2655.00	V	110	131	9.35	1 / 94	16.12	25.47	0.352	33.01	-7.54
60 MHz	QPSK	2531.01	V	115	132	9.14	1 / 94	16.84	25.98	0.396	33.01	-7.03
	QPSK	2592.99	V	112	130	9.25	1 / 1	16.26	25.50	0.355	33.01	-7.51
	QPSK	2655.00	V	110	131	9.35	1 / 94	16.42	25.77	0.377	33.01	-7.24
	16-QAM	2655.00	V	110	131	9.35	1 / 94	14.46	23.81	0.240	33.01	-9.20
	$\pi/2$ BPSK	2526.00	V	115	132	9.13	1 / 160	16.75	25.88	0.388	33.01	-7.13
	$\pi/2$ BPSK	2592.99	V	112	130	9.25	1 / 160	16.64	25.88	0.388	33.01	-7.13
50 MHz	$\pi/2$ BPSK	2659.98	V	110	131	9.35	1 / 81	16.07	25.42	0.348	33.01	-7.59
	QPSK	2526.00	V	115	132	9.13	1 / 160	16.96	26.10	0.407	33.01	-6.91
	QPSK	2592.99	V	112	130	9.25	1 / 1	16.37	25.61	0.364	33.01	-7.40
	QPSK	2659.98	V	110	131	9.35	1 / 1	16.33	25.69	0.370	33.01	-7.32
	16-QAM	2526.00	V	115	132	9.13	1 / 160	16.31	25.44	0.350	33.01	-7.57
	$\pi/2$ BPSK	2521.02	V	115	132	9.12	1 / 131	16.80	25.93	0.392	33.01	-7.08
40 MHz	$\pi/2$ BPSK	2592.99	V	112	130	9.25	1 / 131	16.76	26.01	0.399	33.01	-7.00
	$\pi/2$ BPSK	2664.99	V	110	131	9.36	1 / 1	16.24	25.60	0.363	33.01	-7.41
	QPSK	2521.02	V	115	132	9.12	1 / 131	17.05	26.18	0.415	33.01	-6.83
	QPSK	2592.99	V	112	130	9.25	1 / 131	16.10	25.34	0.342	33.01	-7.67
	QPSK	2664.99	V	110	131	9.36	1 / 1	16.56	25.92	0.391	33.01	-7.09
	16-QAM	2664.99	V	110	131	9.36	1 / 1	14.97	24.33	0.271	33.01	-8.68
30 MHz	$\pi/2$ BPSK	2516.01	V	115	132	9.12	1 / 104	17.13	26.25	0.421	33.01	-6.76
	$\pi/2$ BPSK	2592.99	V	112	130	9.25	1 / 104	17.01	26.25	0.422	33.01	-6.76
	$\pi/2$ BPSK	2670.00	V	110	131	9.37	1 / 1	16.57	25.94	0.393	33.01	-7.07
	QPSK	2516.01	V	115	132	9.12	1 / 104	17.02	26.13	0.410	33.01	-6.88
	QPSK	2592.99	V	112	130	9.25	1 / 104	16.45	25.70	0.371	33.01	-7.31
	QPSK	2670.00	V	110	131	9.37	1 / 1	16.58	25.95	0.393	33.01	-7.06
20 MHz	16-QAM	2670.00	V	110	131	9.37	1 / 1	15.02	24.39	0.275	33.01	-8.62
	$\pi/2$ BPSK	2511.00	V	115	132	9.11	1 / 76	17.17	26.28	0.425	33.01	-6.73
	$\pi/2$ BPSK	2592.99	V	112	130	9.25	1 / 76	16.91	26.16	0.413	33.01	-6.85
	$\pi/2$ BPSK	2674.98	V	110	131	9.38	1 / 1	16.58	25.95	0.394	33.01	-7.06
	QPSK	2511.00	V	115	132	9.11	1 / 76	17.30	26.41	0.438	33.01	-6.60
	QPSK	2592.99	V	112	130	9.25	1 / 76	16.63	25.87	0.387	33.01	-7.14
15 MHz	QPSK	2674.98	V	110	131	9.38	1 / 1	16.56	25.94	0.393	33.01	-7.07
	16-QAM	2674.98	V	110	131	9.38	1 / 1	15.04	24.42	0.276	33.01	-8.59
	$\pi/2$ BPSK	2506.02	V	115	132	9.10	1 / 49	17.04	26.14	0.411	33.01	-6.87
	$\pi/2$ BPSK	2592.99	V	112	130	9.25	1 / 49	17.06	26.31	0.427	33.01	-6.70
	$\pi/2$ BPSK	2679.99	V	110	131	9.39	1 / 1	16.58	25.97	0.395	33.01	-7.04
	QPSK	2506.02	V	115	132	9.10	1 / 49	16.68	25.78	0.378	33.01	-7.23
10 MHz	QPSK	2592.99	V	112	130	9.25	1 / 49	16.62	25.86	0.386	33.01	-7.15
	QPSK	2679.99	V	110	131	9.39	1 / 1	16.58	25.97	0.395	33.01	-7.04
	16-QAM	2679.99	V	110	131	9.39	1 / 1	15.18	24.57	0.286	33.01	-8.44
	$\pi/2$ BPSK	2511.00	V	115	132	9.11	1 / 76	16.60	25.71	0.372	33.01	-7.30
	$\pi/2$ BPSK	2592.99	V	112	130	9.25	1 / 1	16.90	26.15	0.412	33.01	-6.86
	$\pi/2$ BPSK	2674.98	V	110	131	9.38	1 / 1	16.41	25.79	0.379	33.01	-7.22
100 MHz	QPSK	2511.00	V	115	132	9.11	1 / 76	16.24	25.34	0.342	33.01	-7.67
	QPSK	2592.99	V	112	130	9.25	1 / 1	16.41	25.65	0.368	33.01	-7.36
	QPSK	2679.99	V	110	131	9.39	1 / 1	16.35	25.74	0.375	33.01	-7.27
	16-QAM	2679.99	V	110	131	9.39	1 / 1	14.60	23.98	0.250	33.01	-9.03
	QPSK (CP-OFDM)	2592.99	V	112	130	9.25	1 / 136	14.42	23.67	0.233	33.01	-9.34
	QPSK (Opposite Pol.)	2592.99	H	152	3	9.25	1 / 136	15.68	24.93	0.311	33.01	-8.08

Table 7-14. EIRP Data (NR Band n41 – Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 108 of 138

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]
10 MHz	QPSK	2310.0	V	165	242	9.00	1 / 49	12.21	21.21	0.132	23.98	-2.77
	16-QAM	2310.0	V	165	242	9.00	1 / 49	11.24	20.24	0.106	23.98	-3.74
5 MHz	QPSK	2307.5	V	165	242	9.00	1 / 0	12.37	21.37	0.137	23.98	-2.61
	QPSK	2310.0	V	165	242	9.00	1 / 0	12.09	21.09	0.129	23.98	-2.89
	QPSK	2312.5	V	165	242	9.00	1 / 0	12.14	21.15	0.130	23.98	-2.83
	16-QAM	2307.5	V	165	242	9.00	1 / 0	11.18	20.18	0.104	23.98	-3.80
	16-QAM	2310.0	V	165	242	9.00	1 / 0	11.04	20.05	0.101	23.98	-3.93
	16-QAM	2312.5	V	165	242	9.00	1 / 0	10.90	19.91	0.098	23.98	-4.07

Table 7-15. EIRP Data (LTE Band 30 – Ant 4)

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	2510.0	H	100	181	9.11	1 / 0	11.93	21.04	0.127	33.01	-11.98
	QPSK	2535.0	H	117	186	9.15	1 / 99	11.38	20.53	0.113	33.01	-12.48
	QPSK	2560.0	H	109	194	9.19	1 / 99	10.70	19.89	0.097	33.01	-13.12
	16-QAM	2510.0	H	100	181	9.11	1 / 0	10.97	20.08	0.102	33.01	-12.94
	16-QAM	2535.0	H	117	186	9.15	1 / 99	10.36	19.51	0.089	33.01	-13.50
	16-QAM	2560.0	H	109	194	9.19	1 / 99	10.01	19.20	0.083	33.01	-13.81
15 MHz	QPSK	2507.5	H	100	181	9.10	1 / 37	11.23	20.33	0.108	33.01	-12.68
	QPSK	2535.0	H	117	186	9.15	1 / 0	11.10	20.25	0.106	33.01	-12.76
	QPSK	2562.5	H	109	194	9.19	1 / 37	10.55	19.75	0.094	33.01	-13.26
	16-QAM	2507.5	H	100	181	9.10	1 / 37	10.24	19.34	0.086	33.01	-13.67
	16-QAM	2535.0	H	117	186	9.15	1 / 0	10.13	19.28	0.085	33.01	-13.73
	16-QAM	2562.5	H	109	194	9.19	1 / 37	9.78	18.97	0.079	33.01	-14.04
10 MHz	QPSK	2505.0	H	100	181	9.10	1 / 0	12.11	21.21	0.132	33.01	-11.80
	QPSK	2535.0	H	117	186	9.15	1 / 49	11.43	20.58	0.114	33.01	-12.43
	QPSK	2565.0	H	109	194	9.20	1 / 0	10.85	20.05	0.101	33.01	-12.96
	16-QAM	2505.0	H	100	181	9.10	1 / 0	10.92	20.02	0.100	33.01	-12.99
	16-QAM	2535.0	H	117	186	9.15	1 / 49	10.48	19.62	0.092	33.01	-13.39
	16-QAM	2565.0	H	109	194	9.20	1 / 0	9.92	19.12	0.082	33.01	-13.89
5 MHz	QPSK	2502.5	H	100	181	9.09	1 / 24	12.06	21.15	0.130	33.01	-11.86
	QPSK	2535.0	H	117	186	9.15	1 / 24	11.42	20.57	0.114	33.01	-12.44
	QPSK	2567.5	H	109	194	9.20	1 / 12	10.85	20.05	0.101	33.01	-12.96
	16-QAM	2502.5	H	100	181	9.09	1 / 24	11.23	20.32	0.108	33.01	-12.69
	16-QAM	2535.0	H	117	186	9.15	1 / 24	10.42	19.57	0.091	33.01	-13.44
	16-QAM	2567.5	H	109	194	9.20	1 / 12	9.94	19.14	0.082	33.01	-13.87

Table 7-16. EIRP Data (LTE Band 7 – Ant 4)

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	2506.0	H	129	180	9.10	1 / 0	12.45	21.55	0.143	33.01	-11.46
	QPSK	2593.0	H	100	181	9.25	1 / 50	11.61	20.86	0.122	33.01	-12.16
	QPSK	2680.0	H	121	186	9.39	1 / 50	11.69	21.08	0.128	33.01	-11.93
	16-QAM	2506.0	H	129	180	9.10	1 / 0	11.48	20.58	0.114	33.01	-12.43
	16-QAM	2593.0	H	100	181	9.25	1 / 50	10.79	20.04	0.101	33.01	-12.98
	16-QAM	2680.0	H	121	186	9.39	1 / 50	10.92	20.31	0.107	33.01	-12.70
15 MHz	QPSK	2503.5	H	129	180	9.09	1 / 74	12.73	21.82	0.152	33.01	-11.19
	QPSK	2593.0	H	100	181	9.25	1 / 74	11.66	20.90	0.123	33.01	-12.11
	QPSK	2682.5	H	121	186	9.39	1 / 74	11.68	21.07	0.128	33.01	-11.94
	16-QAM	2503.5	H	129	180	9.09	1 / 74	11.83	20.92	0.124	33.01	-12.09
	16-QAM	2593.0	H	100	181	9.25	1 / 74	11.12	20.37	0.109	33.01	-12.64
	16-QAM	2682.5	H	121	186	9.39	1 / 74	11.33	20.72	0.118	33.01	-12.29
10 MHz	QPSK	2501.0	H	129	180	9.09	1 / 25	12.30	21.39	0.138	33.01	-11.62
	QPSK	2593.0	H	100	181	9.25	1 / 25	11.47	20.72	0.118	33.01	-12.29
	QPSK	2685.0	H	121	186	9.39	1 / 25	11.31	20.70	0.117	33.01	-12.31
	16-QAM	2501.0	H	129	180	9.09	1 / 25	11.53	20.62	0.115	33.01	-12.39
	16-QAM	2593.0	H	100	181	9.25	1 / 25	9.90	19.15	0.082	33.01	-13.86
	16-QAM	2685.0	H	121	186	9.39	1 / 25	10.38	19.77	0.095	33.01	-13.24
5 MHz	QPSK	2498.5	H	129	180	9.09	1 / 24	12.49	21.58	0.144	33.01	-11.43
	QPSK	2593.0	H	100	181	9.25	1 / 0	11.65	20.90	0.123	33.01	-12.11
	QPSK	2687.5	H	121	186	9.40	1 / 24	11.52	20.92	0.124	33.01	-12.09
	16-QAM	2498.5	H	129	180	9.09	1 / 24	11.12	20.20	0.105	33.01	-12.81
	16-QAM	2593.0	H	100	181	9.25	1 / 0	10.25	19.49	0.089	33.01	-13.52
	16-QAM	2687.5	H	121	186	9.40	1 / 24	10.09	19.49	0.089	33.01	-13.52

Table 7-17. EIRP Data (LTE Band 41(PC3)/38 – Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT										Approved by: Technical Manager	
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025		EUT Type: Portable Handset								Page 109 of 138	

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]
10 MHz	$\pi/2$ BPSK	2310.0	V	152	184	9.00	1 / 50	13.13	22.13	0.163	23.98	-1.85
	QPSK	2310.0	V	152	184	9.00	1 / 50	13.09	22.09	0.162	23.98	-1.89
	16-QAM	2310.0	V	152	184	9.00	1 / 50	12.48	21.48	0.141	23.98	-2.50
5 MHz	$\pi/2$ BPSK	2307.5	V	152	184	9.00	1 / 1	13.00	22.01	0.159	23.98	-1.97
	$\pi/2$ BPSK	2310.0	V	152	184	9.00	1 / 12	13.16	22.17	0.165	23.98	-1.81
	$\pi/2$ BPSK	2312.5	V	152	184	9.00	1 / 12	13.05	22.06	0.161	23.98	-1.92
	QPSK	2307.5	V	152	184	9.00	1 / 1	13.05	22.05	0.160	23.98	-1.93
	QPSK	2310.0	V	152	184	9.00	1 / 12	13.27	22.28	0.169	23.98	-1.70
	QPSK	2312.5	V	152	184	9.00	1 / 1	13.34	22.35	0.172	23.98	-1.63
	16-QAM	2307.5	V	152	184	9.00	1 / 1	12.41	21.41	0.138	23.98	-2.57
	16-QAM	2310.0	V	152	184	9.00	1 / 12	12.39	21.39	0.138	23.98	-2.59
	16-QAM	2312.5	V	152	184	9.00	1 / 1	12.38	21.39	0.138	23.98	-2.59
10 MHz	QPSK (CP-OFDM)	2310.0	V	151	186	9.00	1 / 50	11.64	20.64	0.116	23.98	-3.34

Table 7-18. EIRP Data (NR Band n30 – Ant 4)

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7.7 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.

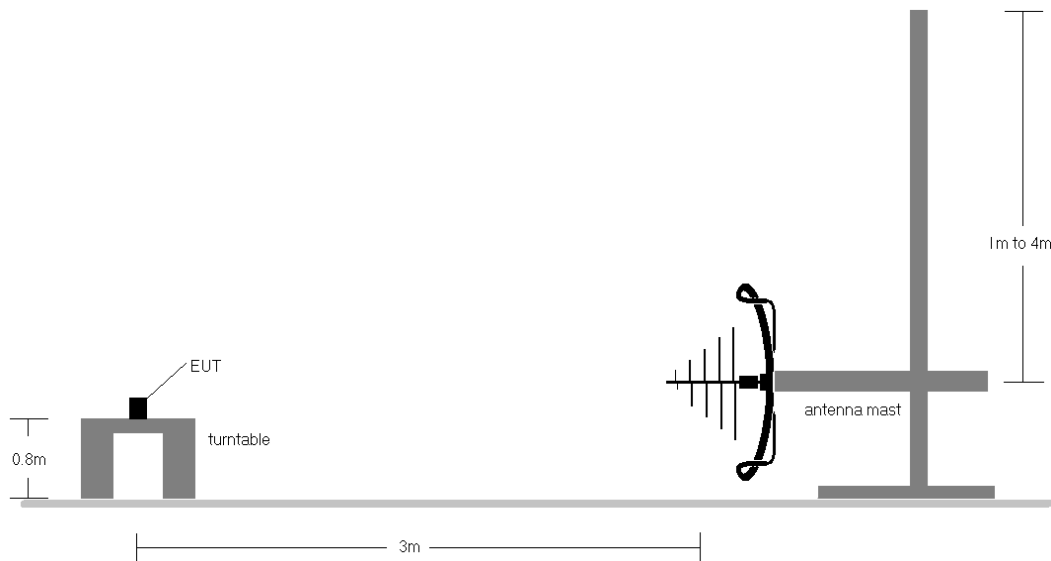


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

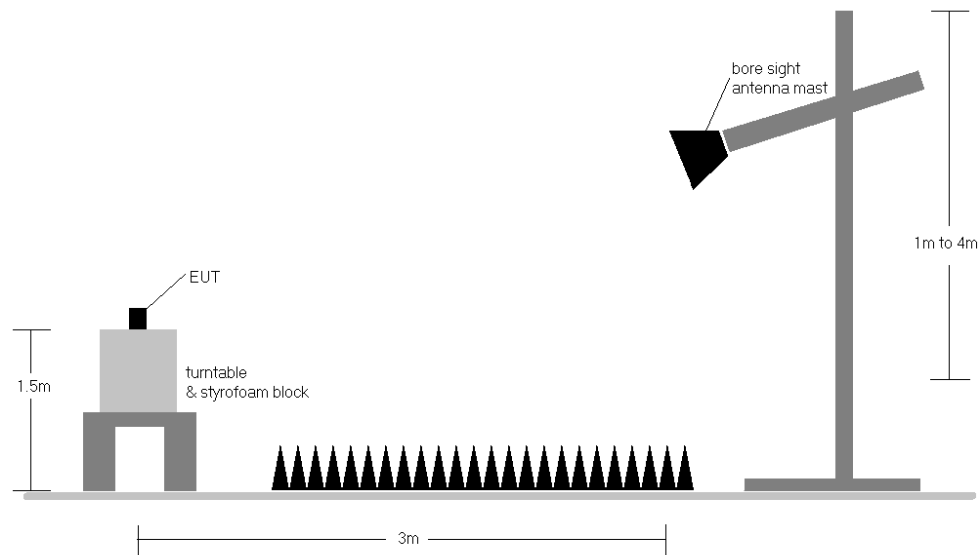


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

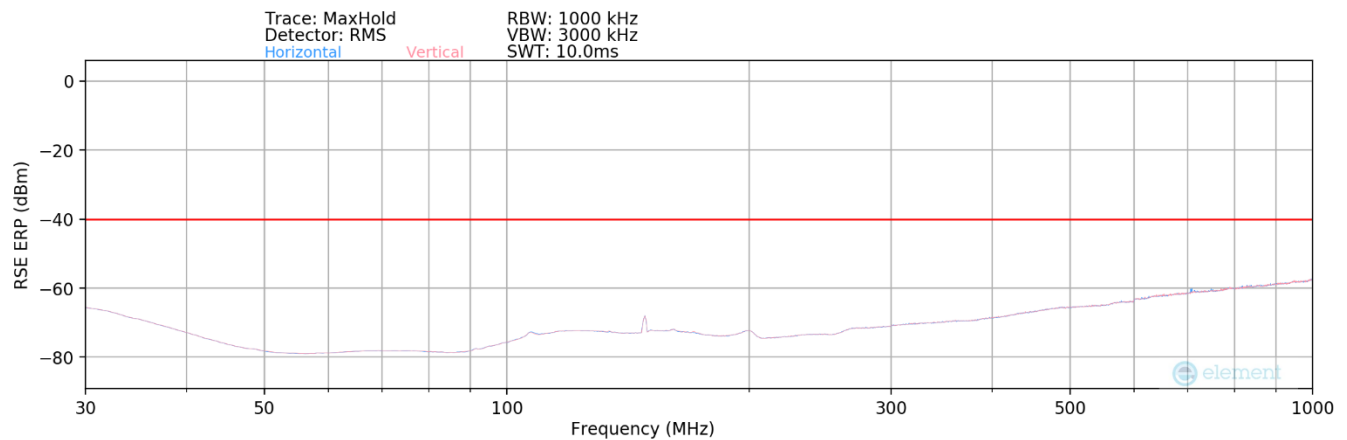
FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 112 of 138

Test Notes

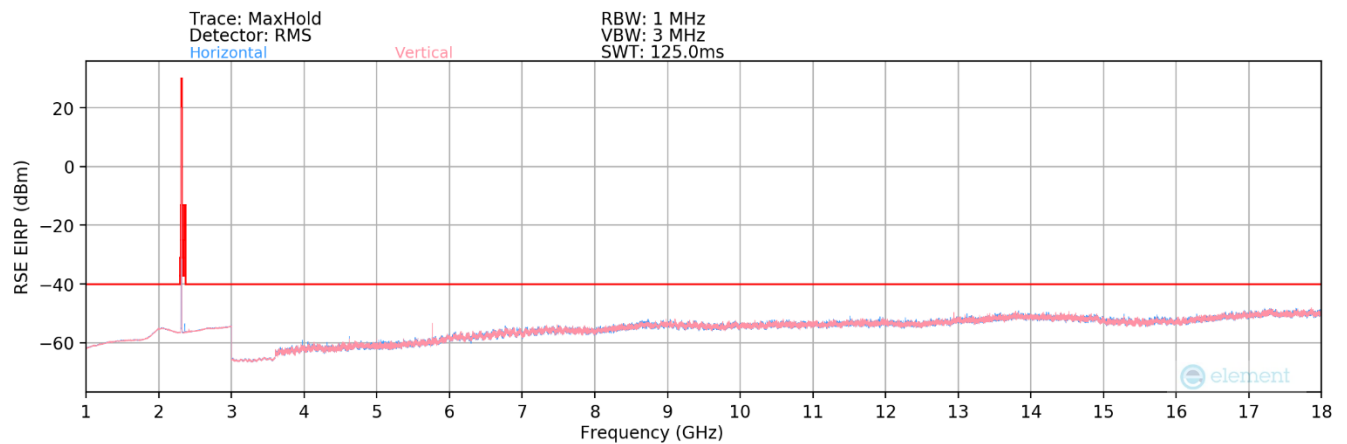
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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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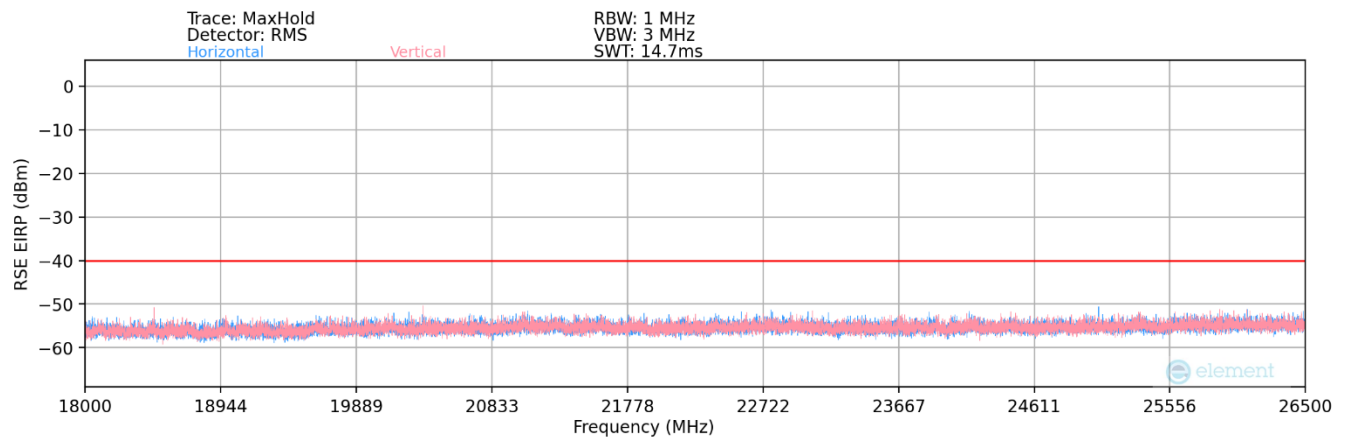
LTE Band 30 – Ant 2



Plot 7-145. Radiated Spurious Plot (LTE Band 30 – Ant 2)



Plot 7-146. Radiated Spurious Plot (LTE Band 30 – Ant 2)



Plot 7-147. Radiated Spurious Plot (LTE Band 30 – Ant 2)

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Bandwidth (MHz):	10
Frequency (MHz):	2310.0
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]
148.00	V	-	-	-108.47	19.72	18.25	-79.16	-40.00	-39.16

Table 7-19. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant 2)

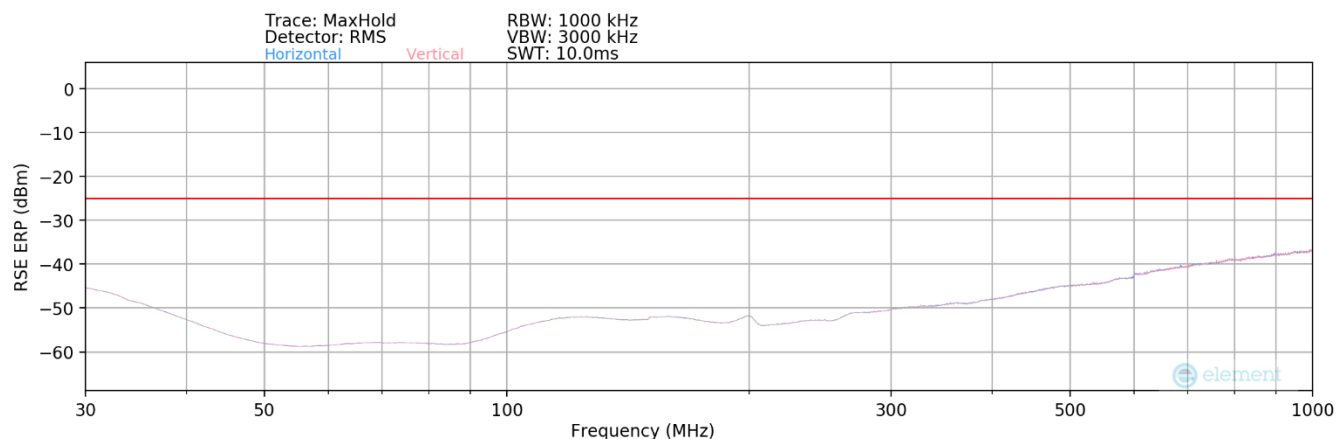
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

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]
4620.00	V	322	28	-77.51	9.39	38.88	-56.38	-40.00	-16.38
6930.00	V	326	24	-81.43	13.73	39.30	-55.96	-40.00	-15.96
9240.00	V	-	-	-83.37	17.88	41.51	-53.75	-40.00	-13.75
11550.00	V	-	-	-84.41	21.32	43.91	-51.34	-40.00	-11.34
13860.00	V	-	-	-84.02	25.04	48.02	-47.24	-40.00	-7.24

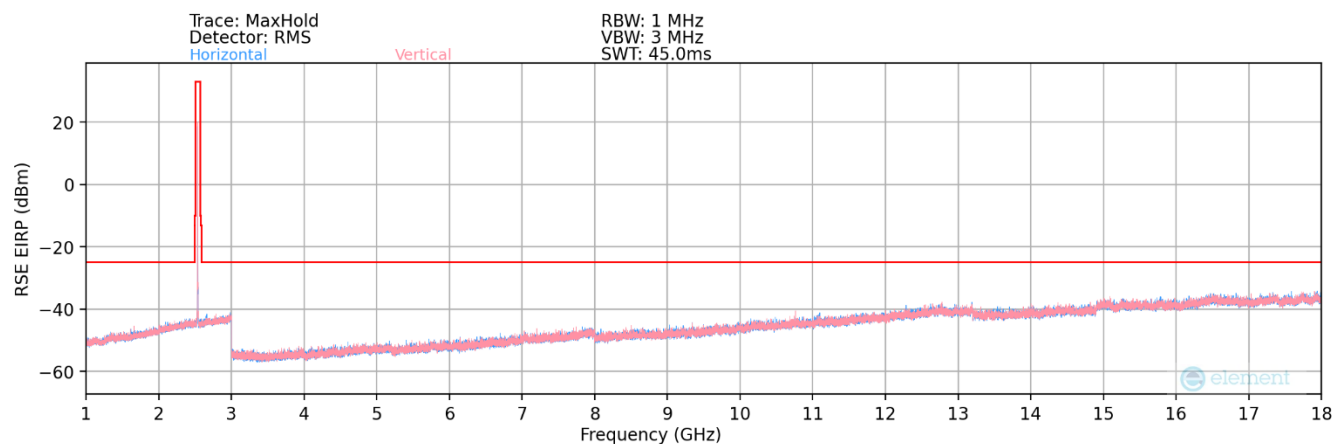
Table 7-20. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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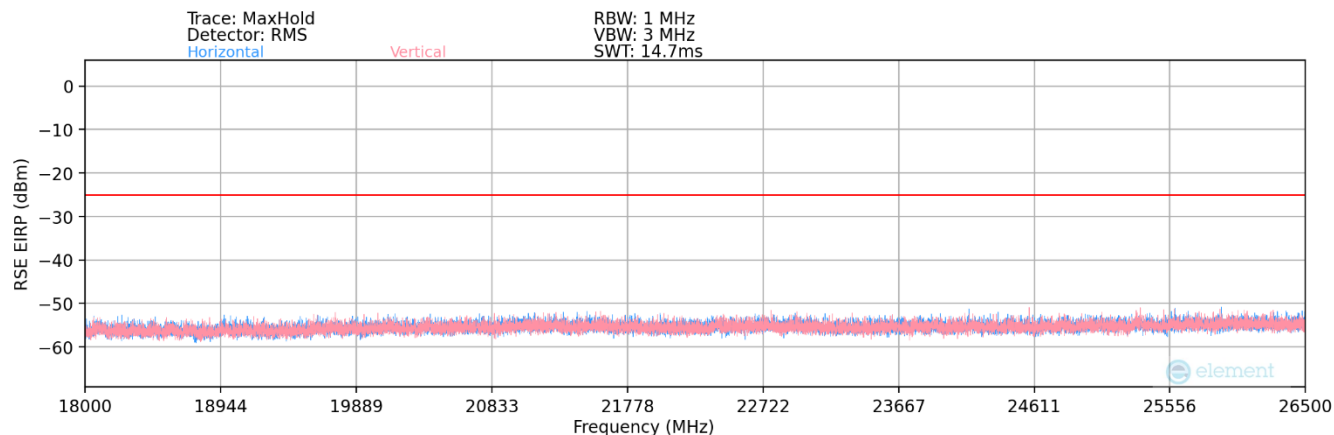
LTE Band 7 – Ant 2



Plot 7-148. Radiated Spurious Plot (LTE Band 7 – Ant 2)



Plot 7-149. Radiated Spurious Plot (LTE Band 7 – Ant 2)



Plot 7-150. Radiated Spurious Plot (LTE Band 7 – Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 116 of 138

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
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]
691.00	H	-	-	-108.27	28.71	27.44	-69.97	-25.00	-44.97

Table 7-21. Radiated Spurious Data (LTE Band 7 – Mid Channel – Ant 2)

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
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]
5020.00	H	104	354	-79.21	10.05	37.84	-57.42	-25.00	-32.42
7530.00	H	-	-	-82.01	15.54	40.53	-54.73	-25.00	-29.73
10040.00	H	-	-	-83.08	18.89	42.81	-52.45	-25.00	-27.45
12550.00	H	-	-	-83.60	23.03	46.43	-48.82	-25.00	-23.82

Table 7-22. Radiated Spurious Data (LTE Band 7 – Low Channel – Ant 2)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
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]
5070.00	H	104	2	-80.20	9.97	36.77	-58.48	-25.00	-33.48
7605.00	H	-	-	-82.08	15.59	40.51	-54.75	-25.00	-29.75
10140.00	H	-	-	-82.79	18.92	43.13	-52.13	-25.00	-27.13
12675.00	H	-	-	-83.76	23.33	46.57	-48.69	-25.00	-23.69

Table 7-23. Radiated Spurious Data (LTE Band 7 – Mid Channel – Ant 2)

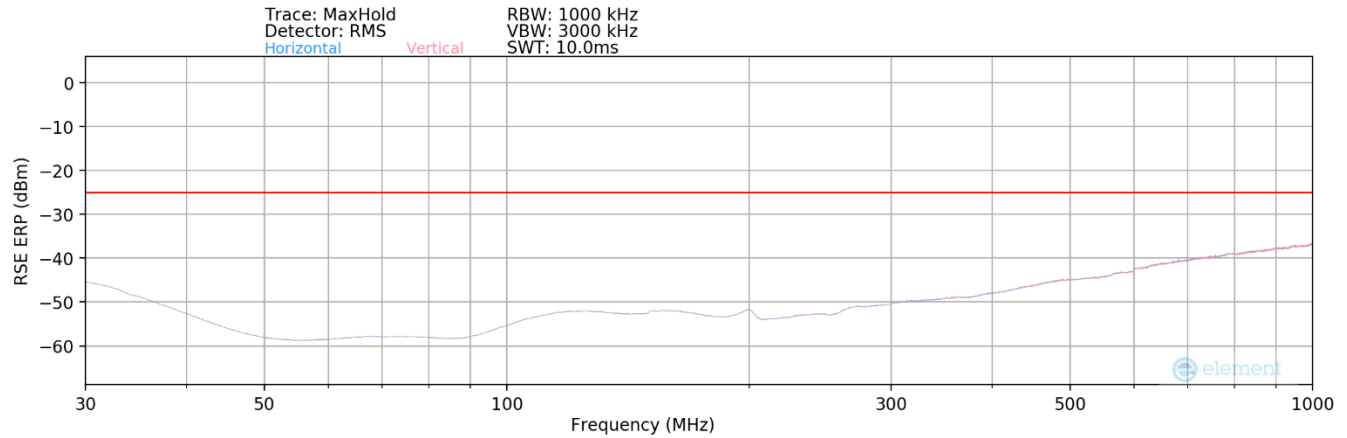
Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

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]
5120.00	H	-	-	-80.74	10.58	36.84	-58.42	-25.00	-33.42
7680.00	H	-	-	-82.07	15.82	40.75	-54.51	-25.00	-29.51
10240.00	H	-	-	-83.06	19.72	43.66	-51.60	-25.00	-26.60

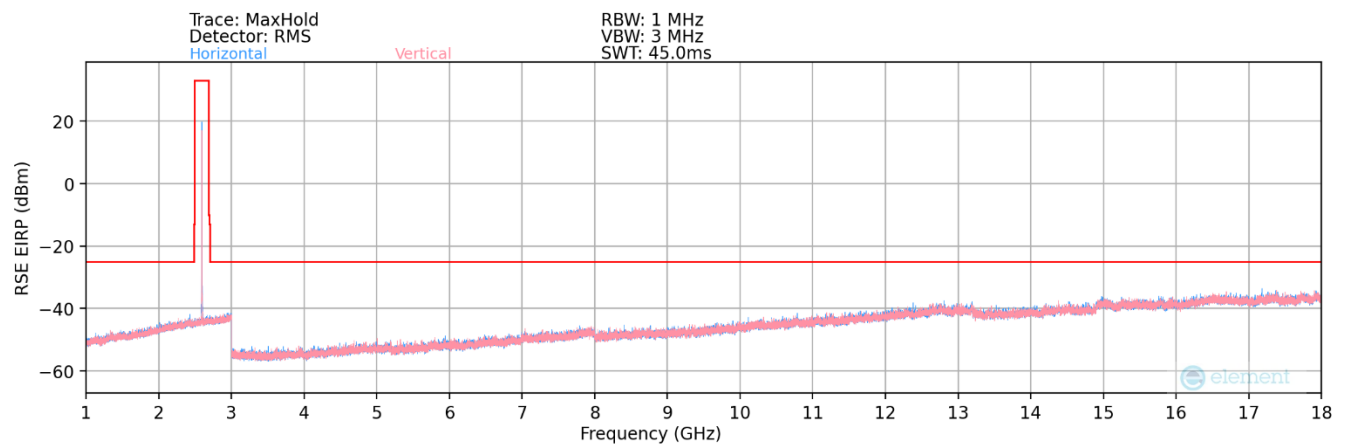
Table 7-24. Radiated Spurious Data (LTE Band 7 – High Channel – Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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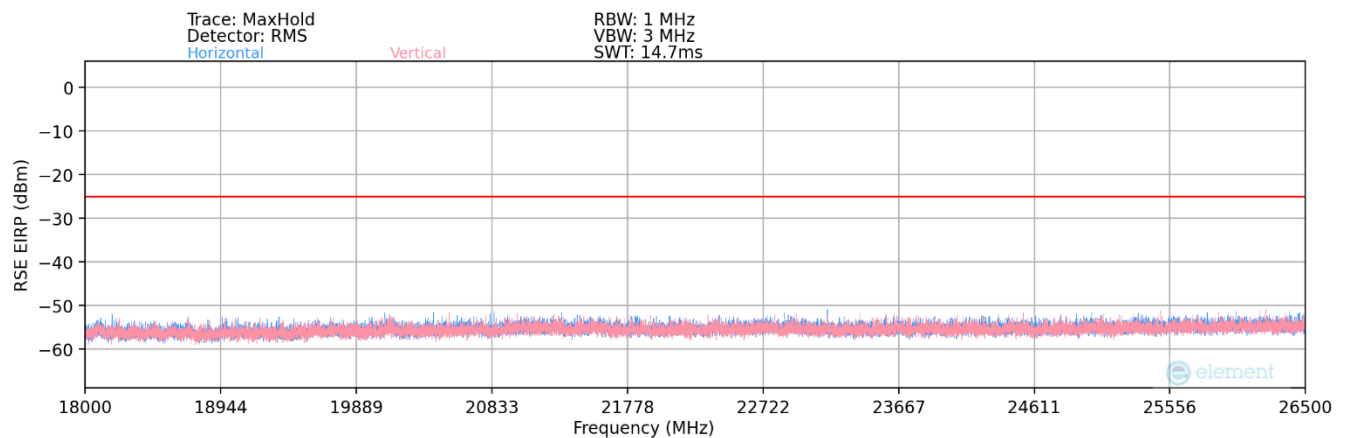
LTE Band 41(PC3)/38 – Ant 2



Plot 7-151. Radiated Spurious Plot (LTE Band 41(PC3)/38 – Ant 2)



Plot 7-152. Radiated Spurious Plot (LTE Band 41(PC3)/38 – Ant 2)



Plot 7-153. Radiated Spurious Plot (LTE Band 41(PC3)/38 – Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2680.0
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]
931.00	H	-	-	-108.01	31.48	30.47	-66.93	-25.00	-41.93

Table 7-25. Radiated Spurious Data (LTE Band 41(PC3)/38 – Mid Channel – Ant 2)

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
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]
5012.00	H	110	40	-70.93	10.20	46.27	-48.98	-25.00	-23.98
7518.00	H	-	-	-71.62	15.64	51.02	-44.24	-25.00	-19.24
10024.00	H	-	-	-74.41	18.84	51.43	-43.83	-25.00	-18.83
12530.00	H	-	-	-74.45	23.18	55.73	-39.52	-25.00	-14.52

Table 7-26. Radiated Spurious Data (LTE Band 41(PC3)/38 – Low Channel – Ant 2)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
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]
5186.00	H	116	65	-69.21	10.41	48.20	-47.06	-25.00	-22.06
7779.00	H	-	-	-72.67	15.52	49.85	-45.40	-25.00	-20.40
10372.00	H	-	-	-74.38	19.43	52.05	-43.21	-25.00	-18.21
12965.00	H	-	-	-75.03	24.10	56.07	-39.19	-25.00	-14.19

Table 7-27. Radiated Spurious Data (LTE Band 41(PC3)/38 – Mid Channel – Ant 2)

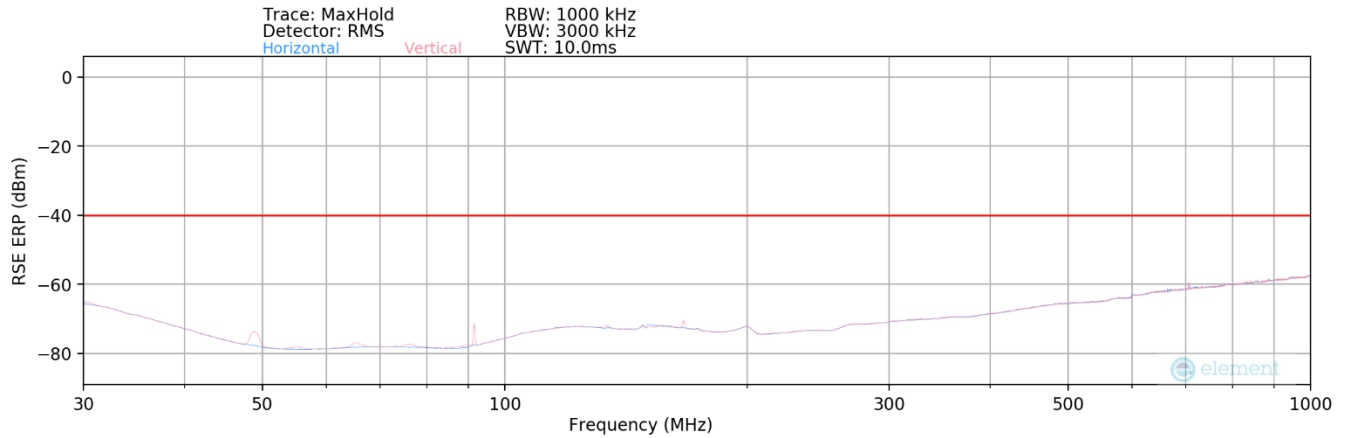
Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

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]
5360.00	H	210	313	-66.43	10.82	51.39	-43.87	-25.00	-18.87
8040.00	H	-	-	-73.72	16.03	49.31	-45.95	-25.00	-20.95
10720.00	H	-	-	-74.33	20.27	52.94	-42.32	-25.00	-17.32
13400.00	H	-	-	-74.94	24.39	56.45	-38.81	-25.00	-13.81

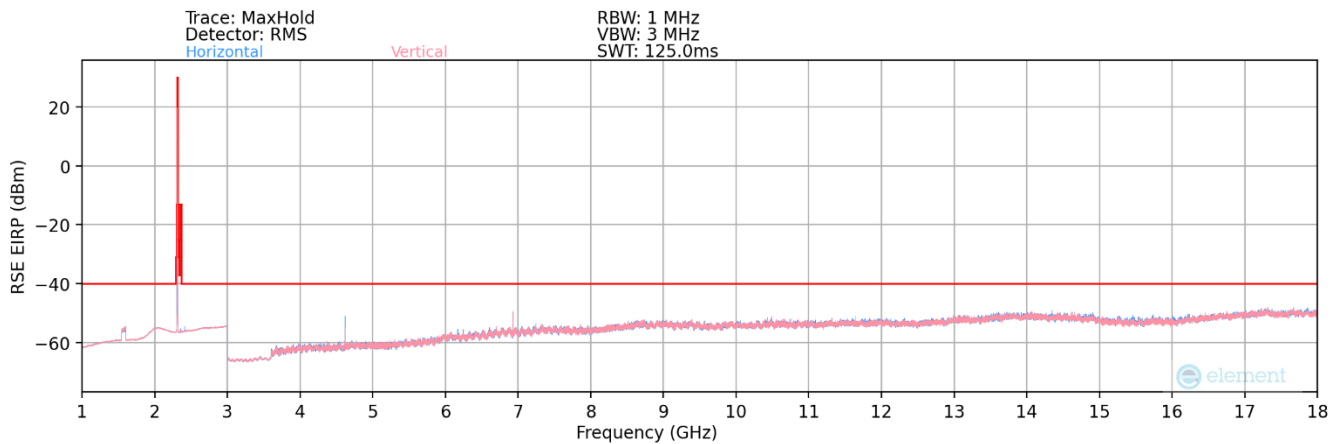
Table 7-28. Radiated Spurious Data (LTE Band 41(PC3)/38 – High Channel – Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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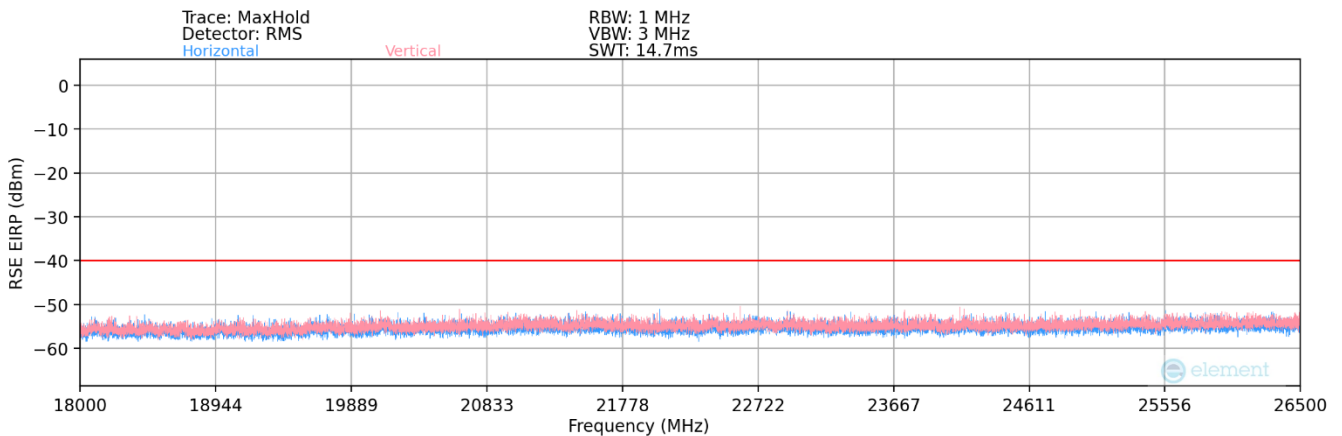
NR Band n30 – Ant 2



Plot 7-154. Radiated Spurious Plot (NR Band n30 – Ant 2)



Plot 7-155. Radiated Spurious Plot (NR Band n30 – Ant 2)



Plot 7-156. Radiated Spurious Plot (NR Band n30 – Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 26

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]
48.00	V	107	358	-105.57	15.44	16.87	-80.54	-40.00	-40.54
66.00	V	-	-	-107.38	14.64	14.26	-83.15	-40.00	-43.15
95.00	V	110	56	-103.93	15.88	18.95	-78.46	-40.00	-38.46
705.00	V	-	-	-106.67	28.92	29.25	-68.16	-40.00	-28.16

Table 7-29. Radiated Spurious Data (NR Band n30 – Mid Channel – Ant 2)

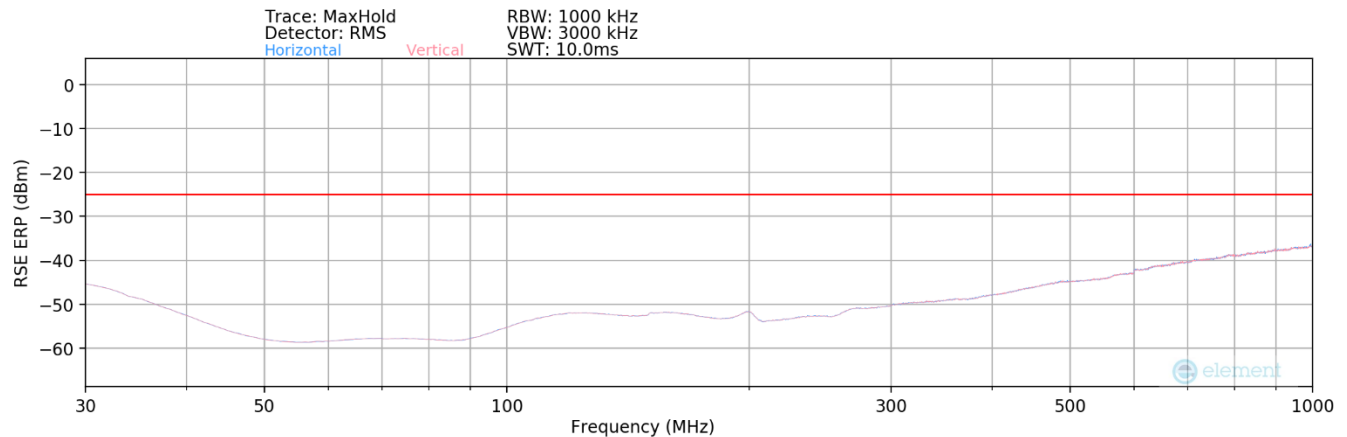
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 26

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]
4620.00	V	136	151	-71.39	2.76	38.37	-56.88	-40.00	-16.88
6930.00	V	136	166	-75.06	8.37	40.31	-54.94	-40.00	-14.94
9240.00	V	-	-	-80.00	11.10	38.10	-57.16	-40.00	-17.16
11550.00	V	-	-	-81.24	13.21	38.97	-56.29	-40.00	-16.29
13860.00	V	-	-	-81.98	16.48	41.50	-53.75	-40.00	-13.75

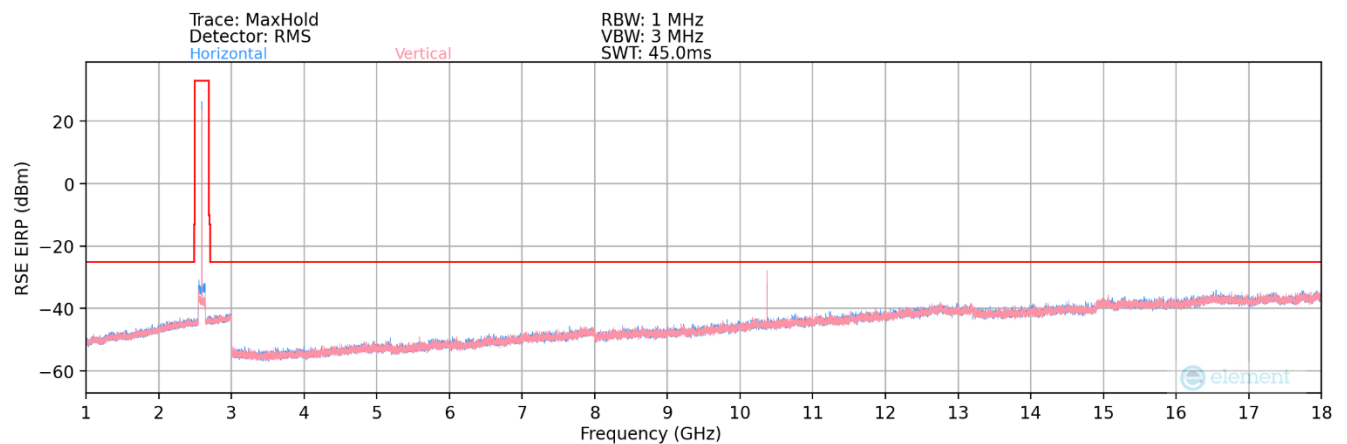
Table 7-30. Radiated Spurious Data (NR Band n30 – Mid Channel – Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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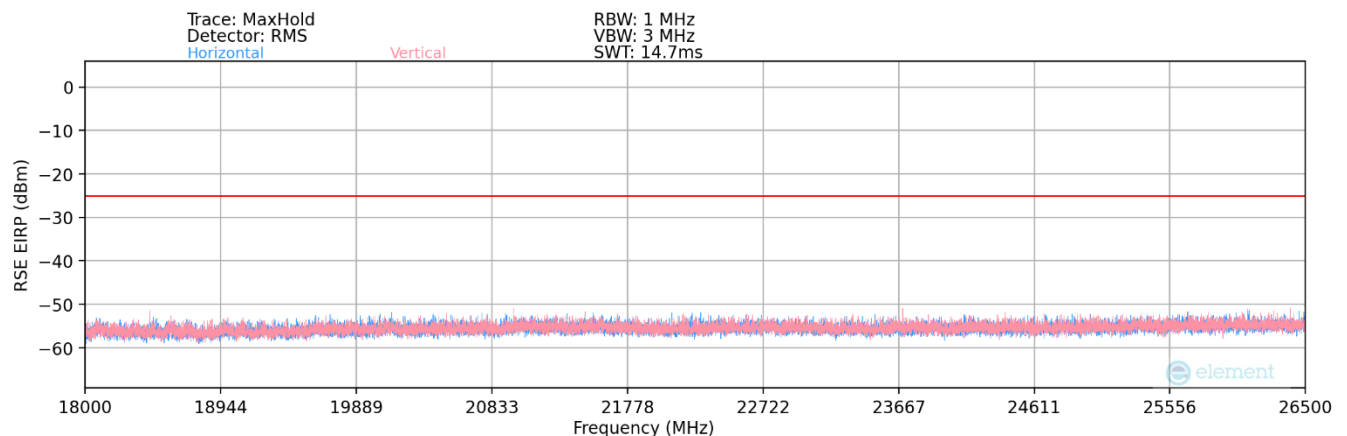
NR Band n41 – Ant 2



Plot 7-157. Radiated Spurious Plot (NR Band n41 – Ant 2)



Plot 7-158. Radiated Spurious Plot (NR Band n41 – Ant 2)



Plot 7-159. Radiated Spurious Plot (NR Band n41 – Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 122 of 138

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

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]
488.00	H	-	-	-97.15	25.83	35.68	-61.73	-25.00	-36.73

Table 7-31. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant 2)

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

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]
5092.02	H	118	77	-69.42	10.08	47.66	-47.60	-25.00	-22.60
7638.03	H	-	-	-72.86	15.73	49.87	-45.38	-25.00	-20.38
10184.04	H	104	359	-63.66	19.61	62.95	-32.31	-25.00	-7.31
12730.05	H	-	-	-74.35	23.23	55.88	-39.38	-25.00	-14.38
15276.06	H	-	-	-74.32	27.23	59.91	-35.34	-25.00	-10.34
17822.07	H	-	-	-74.98	29.80	61.82	-33.44	-25.00	-8.44

Table 7-32. Radiated Spurious Data (NR Band n41 – Low Channel – Ant 2)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

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]
5185.98	H	137	351	-66.13	10.41	51.28	-43.98	-25.00	-18.98
7778.97	H	-	-	-73.13	15.52	49.39	-45.87	-25.00	-20.87
10371.96	H	129	352	-58.91	19.43	67.52	-27.74	-25.00	-2.74
12964.95	H	-	-	-74.83	24.10	56.27	-38.99	-25.00	-13.99
15557.94	H	-	-	-74.92	27.98	60.06	-35.19	-25.00	-10.19
18150.93	H	-	-	-57.62	1.06	50.45	-54.35	-25.00	-29.35

Table 7-33. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant 2)

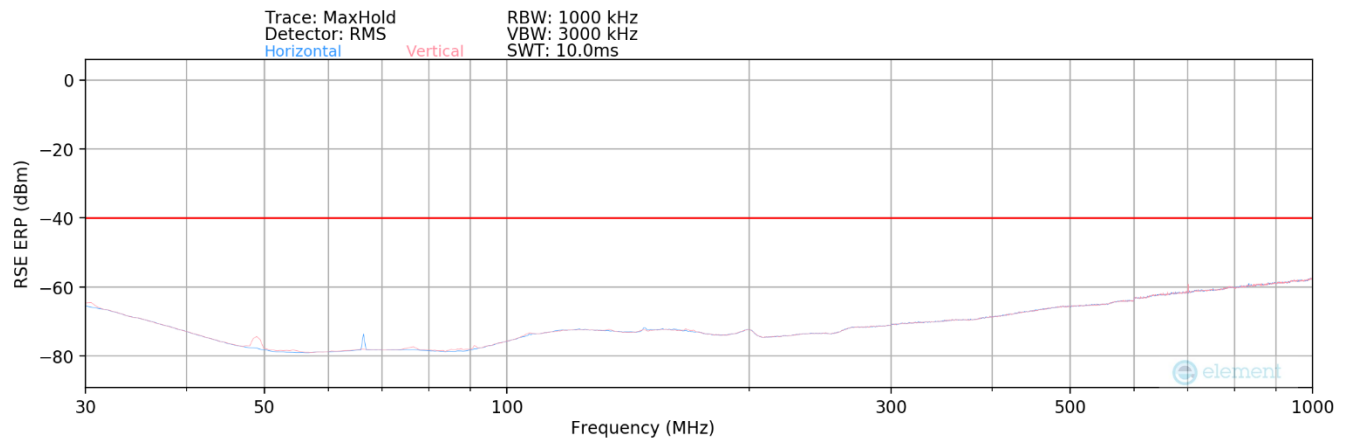
Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

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]
5280.00	H	141	2	-61.43	10.33	55.90	-39.36	-25.00	-14.36
7920.00	H	-	-	-72.46	15.61	50.15	-45.11	-25.00	-20.11
10560.00	H	139	2	-67.37	19.74	59.37	-35.89	-25.00	-10.89
13200.00	H	-	-	-73.48	24.06	57.58	-37.67	-25.00	-12.67
15840.00	H	-	-	-74.74	27.50	59.76	-35.50	-25.00	-10.50
18480.00	H	150	11	-57.15	1.29	51.15	-53.65	-25.00	-28.65
21120.00	H	-	-	-62.67	3.46	47.79	-57.01	-25.00	-32.01
23760.00	H	-	-	-62.92	3.57	47.65	-57.15	-25.00	-32.15

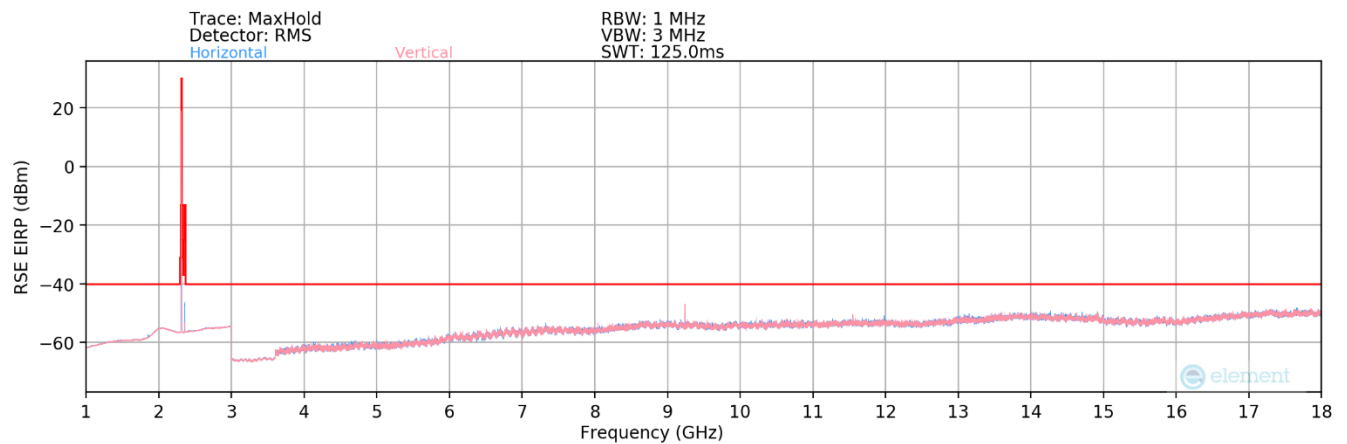
Table 7-34. Radiated Spurious Data (NR Band n41 – High Channel – Ant 2)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 123 of 138

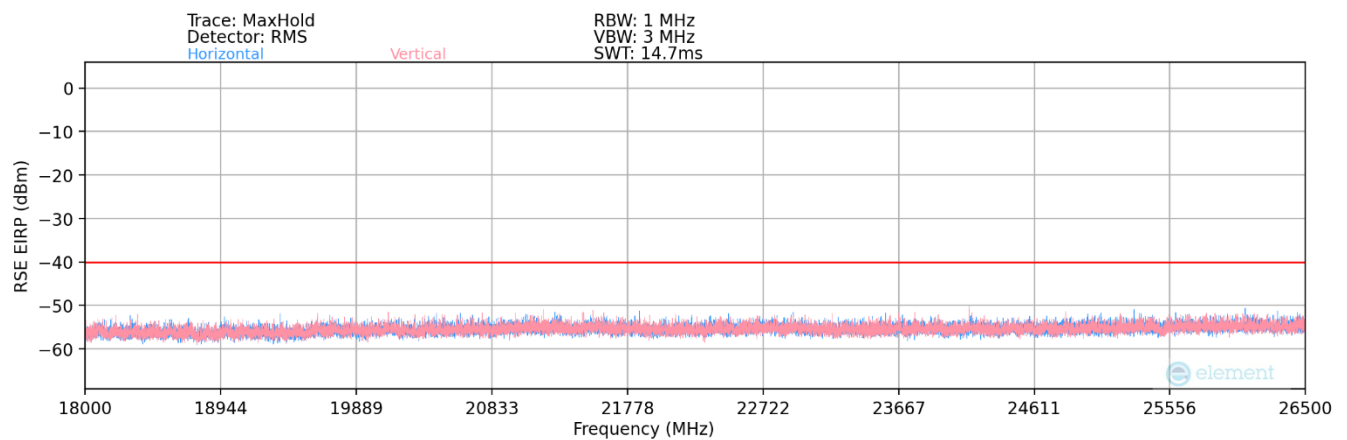
LTE Band 30 – Ant 4



Plot 7-160. Radiated Spurious Plot (LTE Band 30 – Ant 4)



Plot 7-161. Radiated Spurious Plot (LTE Band 30 – Ant 4)



Plot 7-162. Radiated Spurious Plot (LTE Band 30 – Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 124 of 138

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
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]
66.00	H	-	-	-108.59	14.64	13.05	-84.36	-40.00	-44.36

Table 7-35. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant 4)

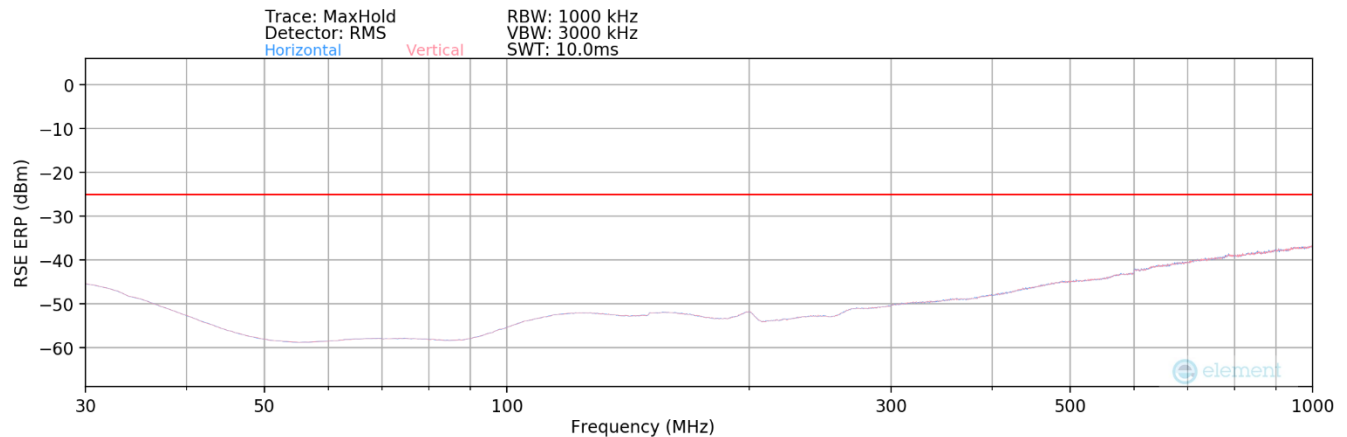
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

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]
4620.00	H	284	5	-77.68	2.76	32.08	-63.17	-40.00	-23.17
6930.00	H	282	20	-79.29	8.37	36.08	-59.17	-40.00	-19.17
9240.00	H	295	357	-70.88	11.10	47.22	-48.04	-40.00	-8.04
11550.00	H	298	45	-74.06	13.21	46.15	-49.11	-40.00	-9.11
13860.00	H	-	-	-81.80	16.48	41.68	-53.57	-40.00	-13.57
16170.00	H	-	-	-81.78	14.81	40.03	-55.23	-40.00	-15.23

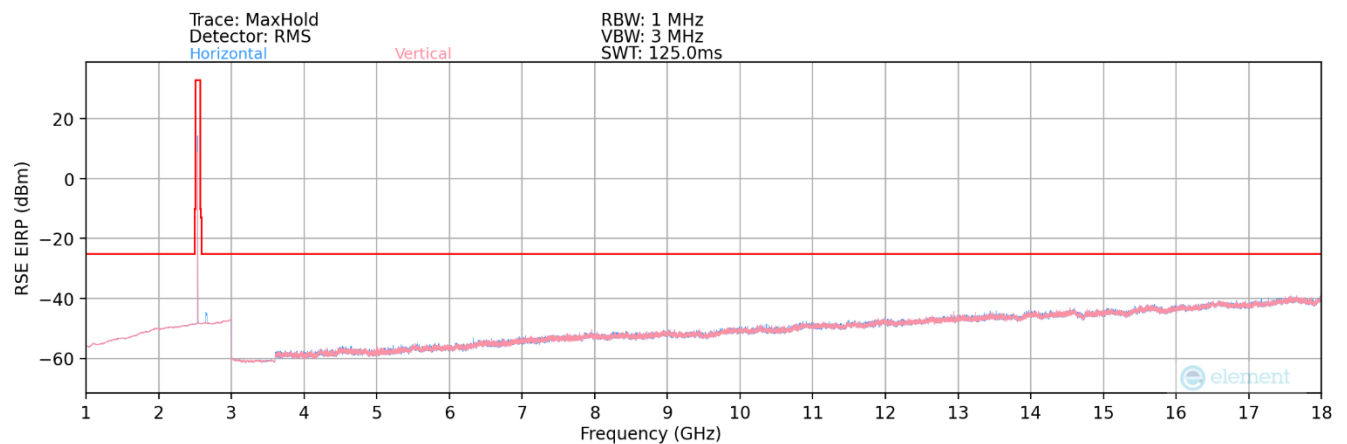
Table 7-36. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 125 of 138

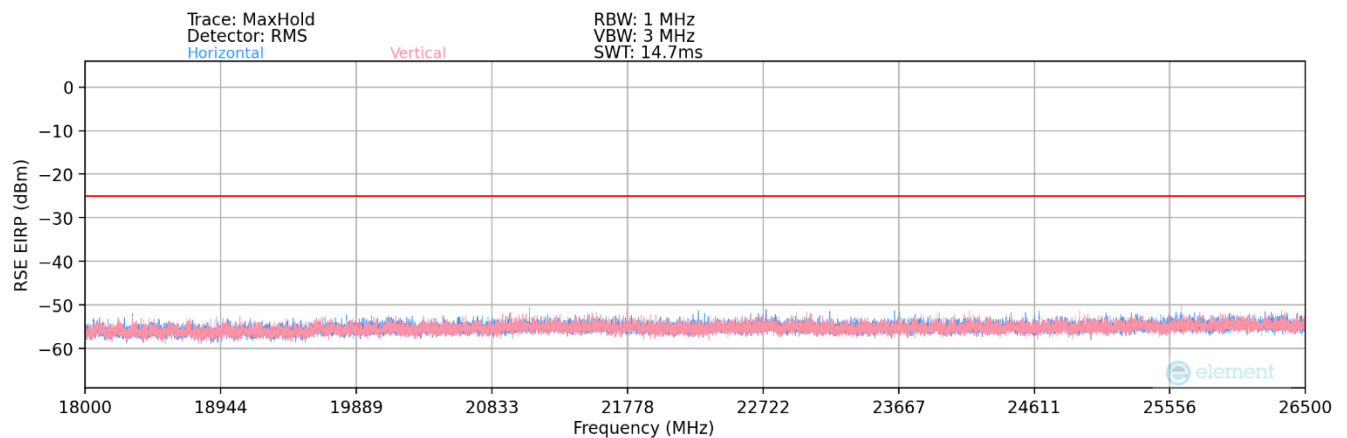
LTE Band 7 – Ant 4



Plot 7-163. Radiated Spurious Plot (LTE Band 7 – Ant 4)



Plot 7-164. Radiated Spurious Plot (LTE Band 7 – Ant 4)



Plot 7-165. Radiated Spurious Plot (LTE Band 7 – Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 126 of 138

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
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]
254.00	V	-	-	-108.86	18.98	17.12	-80.28	-25.00	-55.28

Table 7-37. Radiated Spurious Data (LTE Band 7 – Mid Channel – Ant 4)

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
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]
5020.00	V	125	48	-67.97	3.12	42.15	-53.11	-25.00	-28.11
7530.00	V	-	-	-79.59	9.56	36.97	-58.28	-25.00	-33.28
10040.00	V	121	48	-69.04	11.88	49.84	-45.41	-25.00	-20.41
12550.00	V	-	-	-80.84	13.11	39.27	-55.99	-25.00	-30.99
15060.00	V	-	-	-81.71	14.34	39.63	-55.63	-25.00	-30.63
17570.00	V	-	-	-81.18	16.59	42.41	-52.85	-25.00	-27.85

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

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
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]
5070.00	V	124	51	-68.51	3.13	41.62	-53.64	-25.00	-28.64
7605.00	V	-	-	-79.46	9.60	37.14	-58.12	-25.00	-33.12
10140.00	V	131	60	-73.02	12.04	46.02	-49.24	-25.00	-24.24
12675.00	V	-	-	-81.07	13.39	39.32	-55.94	-25.00	-30.94
15210.00	V	-	-	-81.57	14.29	39.72	-55.54	-25.00	-30.54
17745.00	V	-	-	-81.59	17.61	43.02	-52.24	-25.00	-27.24

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

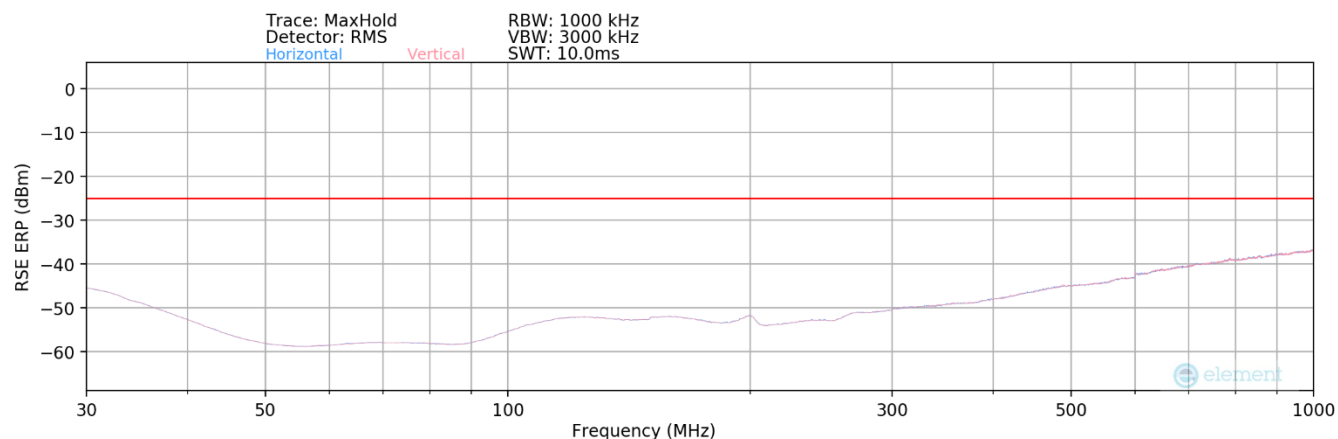
Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

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]
5120.00	V	136	44	-66.32	3.30	43.98	-51.28	-25.00	-26.28
7680.00	V	-	-	-78.94	8.94	37.00	-58.26	-25.00	-33.26
10240.00	V	129	44	-68.01	11.85	50.84	-44.42	-25.00	-19.42
12800.00	V	-	-	-81.22	13.94	39.72	-55.53	-25.00	-30.53
15360.00	V	-	-	-80.93	14.03	40.10	-55.16	-25.00	-30.16
17920.00	V	-	-	-81.33	16.93	42.60	-52.66	-25.00	-27.66

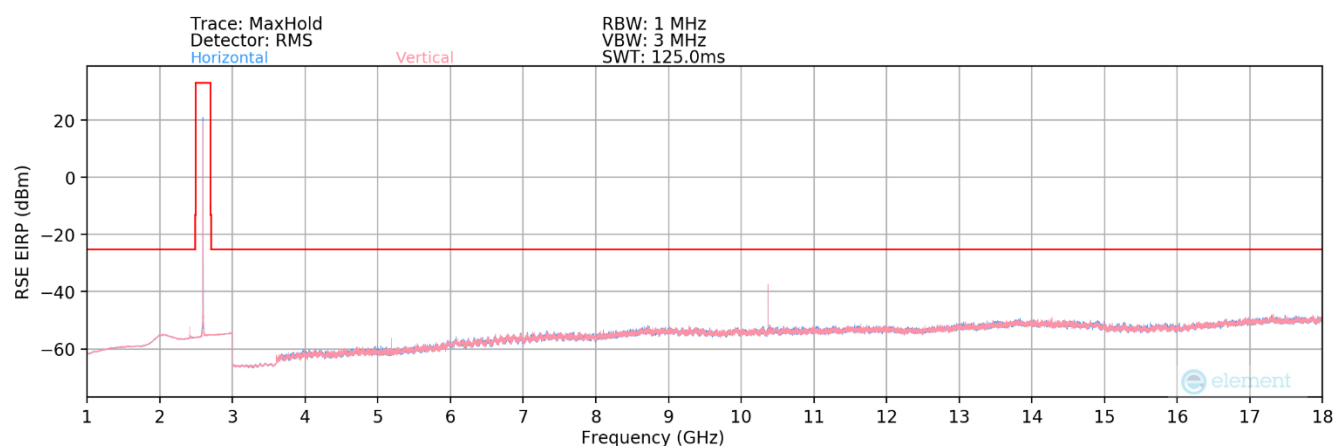
Table 7-40. Radiated Spurious Data (LTE Band 7 – High Channel – Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 127 of 138

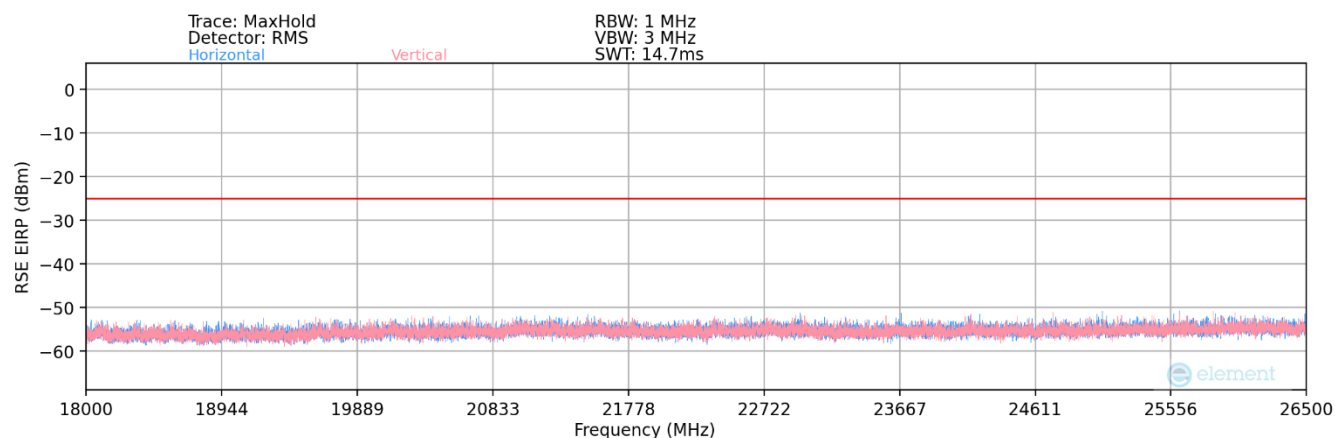
LTE Band 41(PC3)/38 – Ant 4



Plot 7-166. Radiated Spurious Plot (LTE Band 41(PC3)/38 – Ant 4)



Plot 7-167. Radiated Spurious Plot (LTE Band 41(PC3)/38 – Ant 4)



Plot 7-168. Radiated Spurious Plot (LTE Band 41(PC3)/38 – Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 128 of 138

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
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]
887.00	H	-	-	-108.22	31.18	29.96	-67.44	-25.00	-42.44

Table 7-41. Radiated Spurious Data (LTE Band 41(PC3)/38 – Low Channel – Ant 4)

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
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]
5012.00	H	188	9	-69.34	3.01	40.67	-54.59	-25.00	-29.59
7518.00	H	-	-	-77.12	9.31	39.19	-56.07	-25.00	-31.07
10024.00	H	187	39	-62.99	11.51	55.52	-39.74	-25.00	-14.74
12530.00	H	-	-	-79.15	13.23	41.08	-54.18	-25.00	-29.18
15036.00	H	-	-	-79.74	14.22	41.48	-53.78	-25.00	-28.78
17542.00	H	-	-	-79.62	16.76	44.14	-51.11	-25.00	-26.11

Table 7-42. Radiated Spurious Data (LTE Band 41(PC3)/38 – Mid Channel – Ant 4)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
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]
5186.00	H	360	296	-67.12	3.36	43.24	-52.01	-25.00	-27.01
7779.00	H	360	296	-75.57	8.63	40.06	-55.20	-25.00	-30.20
10372.00	H	373	311	-66.50	12.21	52.71	-42.54	-25.00	-17.54
12965.00	H	-	-	-79.23	14.39	42.16	-53.10	-25.00	-28.10
15558.00	H	-	-	-78.64	13.63	41.99	-53.27	-25.00	-28.27

Table 7-43. Radiated Spurious Data (LTE Band 41(PC3)/38 – High Channel – Ant 4)

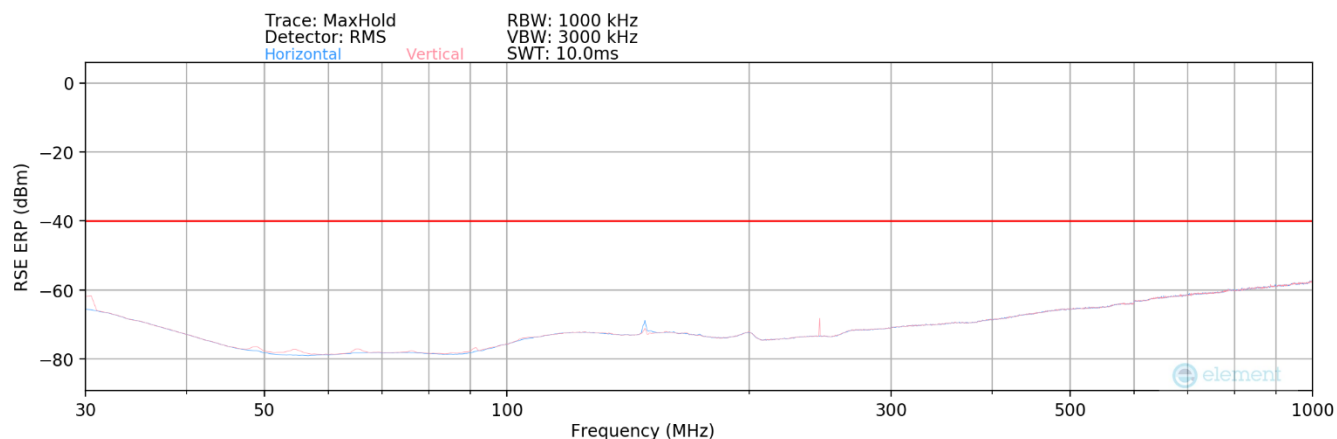
Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

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]
5360.00	H	330	306	-67.82	3.38	42.56	-52.70	-25.00	-27.70
8040.00	H	-	-	-76.70	9.46	39.76	-55.49	-25.00	-30.49
10720.00	H	325	328	-60.13	12.84	59.71	-35.54	-25.00	-10.54
13400.00	H	-	-	-79.04	14.92	42.88	-52.37	-25.00	-27.37
16080.00	H	-	-	-79.31	14.15	41.84	-53.42	-25.00	-28.42

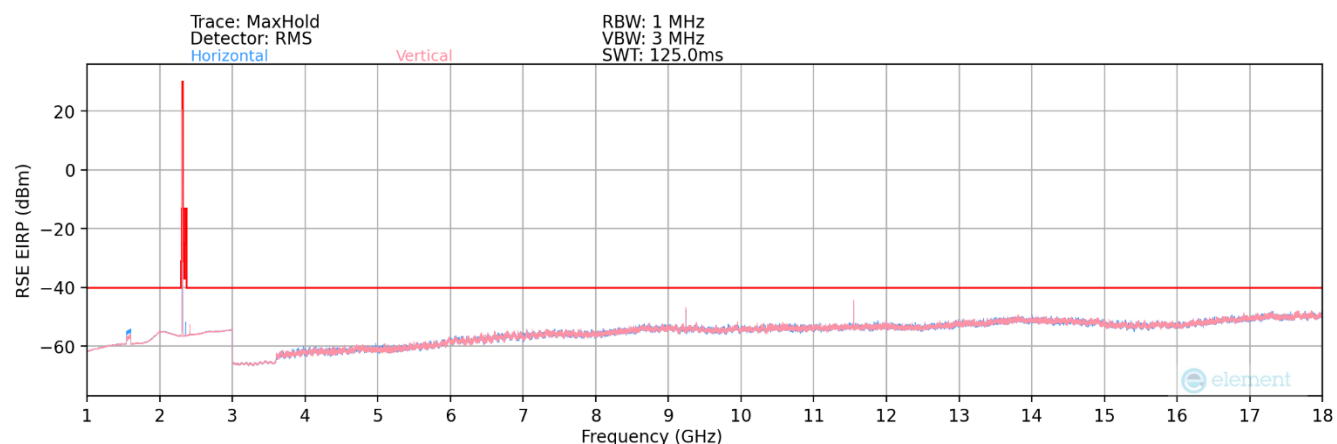
Table 7-44. Radiated Spurious Data (LTE Band 41(PC3)/38 – Mid Channel – Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 129 of 138

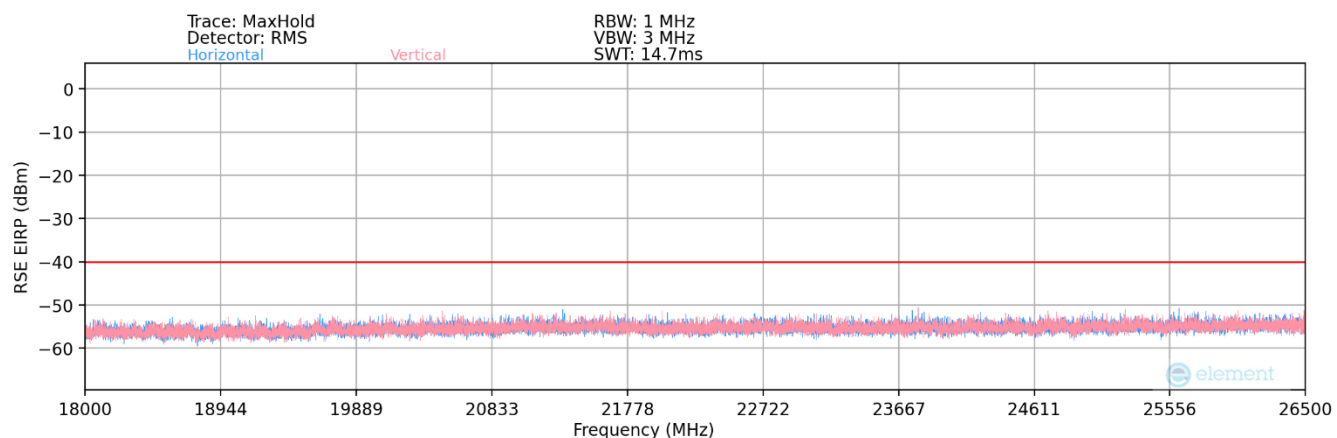
NR Band n30 – Ant 4



Plot 7-169. Radiated Spurious Plot (NR Band n30 – Ant 4)



Plot 7-170. Radiated Spurious Plot (NR Band n30 – Ant 4)



Plot 7-171. Radiated Spurious Plot (NR Band n30 – Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 130 of 138

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
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]
148.00	H	100	225	-92.99	19.72	33.73	-63.68	-40.00	-23.68
250.00	V	-	-	-96.37	18.87	29.50	-67.91	-40.00	-27.91

Table 7-45. Radiated Spurious Data (NR Band n30 – Mid Channel – Ant 4)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
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]
4620.00	H	251	340	-77.70	2.76	32.06	-63.19	-40.00	-23.19
6930.00	H	355	341	-74.47	8.37	40.90	-54.35	-40.00	-14.35
9240.00	H	348	356	-69.85	11.10	48.25	-47.01	-40.00	-7.01
11550.00	H	363	366	-71.18	13.21	49.03	-46.23	-40.00	-6.23
13860.00	H	373	370	-79.78	16.48	43.70	-51.55	-40.00	-11.55
16170.00	H	-	-	-81.60	14.81	40.21	-64.59	-40.00	-24.59
18480.00	H	-	-	-61.01	1.29	47.28	-57.52	-40.00	-17.52
20790.00	H	-	-	-62.52	3.15	47.63	-57.17	-40.00	-17.17

Table 7-46. Radiated Spurious Data (NR Band n30 – Mid Channel – Ant 4)

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.8 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

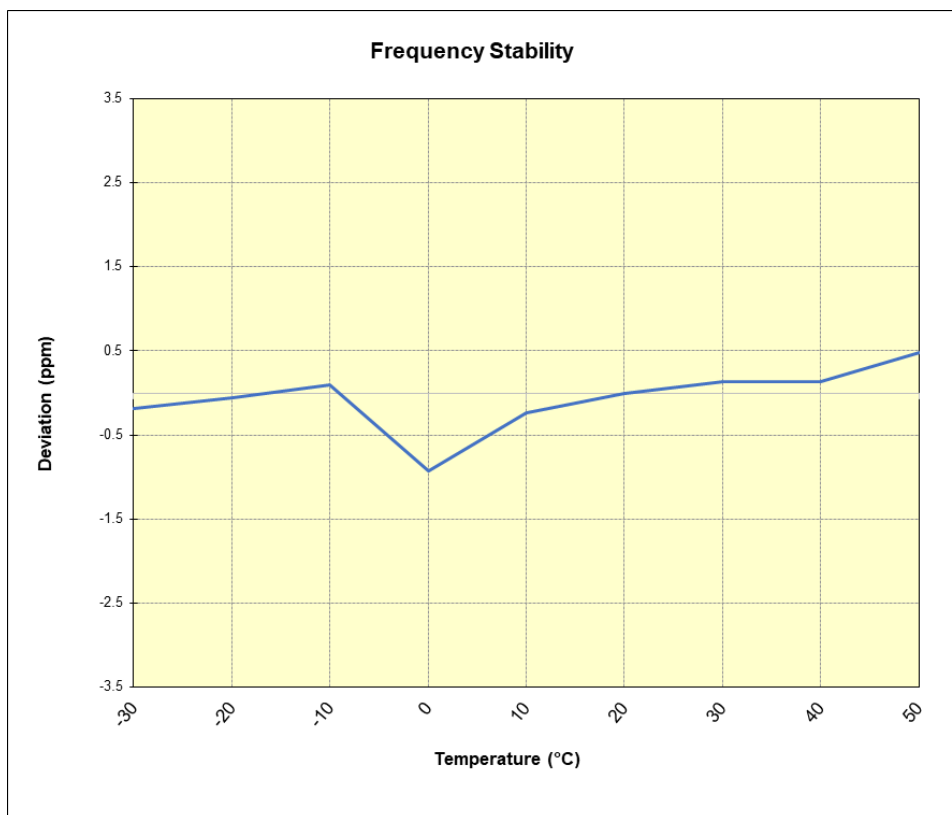
None

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 30

Operating Frequency (Hz):		2,310,000,000			
Ref. Voltage (VDC):		4.43			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	2,310,073,782	-441	-0.0000191
		- 20	2,310,074,104	-119	-0.0000052
		- 10	2,310,074,444	221	0.0000096
		0	2,310,072,076	-2,147	-0.0000929
		+ 10	2,310,073,667	-556	-0.0000241
		+ 20 (Ref)	2,310,074,223	0	0.0000000
		+ 30	2,310,074,522	299	0.0000129
		+ 40	2,310,074,532	309	0.0000134
		+ 50	2,310,075,334	1,111	0.0000481
Battery Endpoint	3.40	+ 20	2,310,074,511	288	0.0000125

Table 7-47. LTE Band 30 Frequency Stability Data



Plot 7-172. LTE Band 30 Frequency Stability Chart

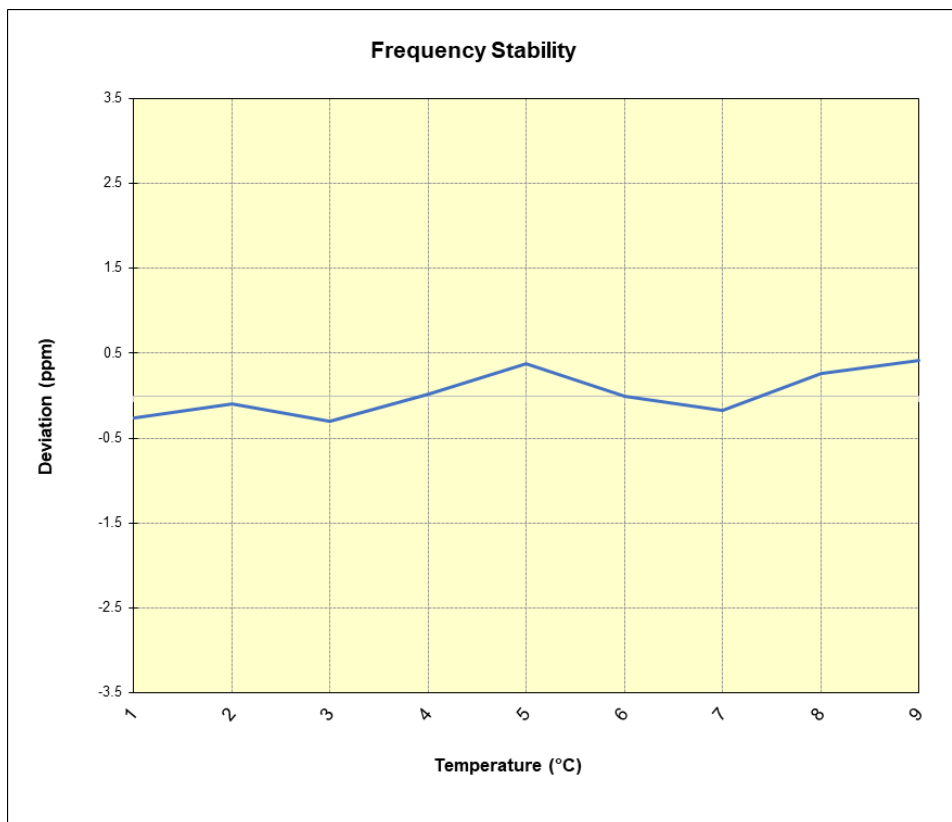
FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 133 of 138

LTE Band 7

Operating Frequency (Hz):	2,535,000,000
Ref. Voltage (VDC):	4.43

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	2,535,000,827	-669	-0.0000264
		- 20	2,535,001,249	-247	-0.0000097
		- 10	2,535,000,719	-777	-0.0000307
		0	2,535,001,532	36	0.0000014
		+ 10	2,535,002,462	966	0.0000381
		+ 20 (Ref)	2,535,001,496	0	0.0000000
		+ 30	2,535,001,054	-442	-0.0000174
		+ 40	2,535,002,165	669	0.0000264
		+ 50	2,535,002,540	1,044	0.0000412
Battery Endpoint	3.40	+ 20	2,535,002,095	599	0.0000236

Table 7-48. LTE Band 7 Frequency Stability Data

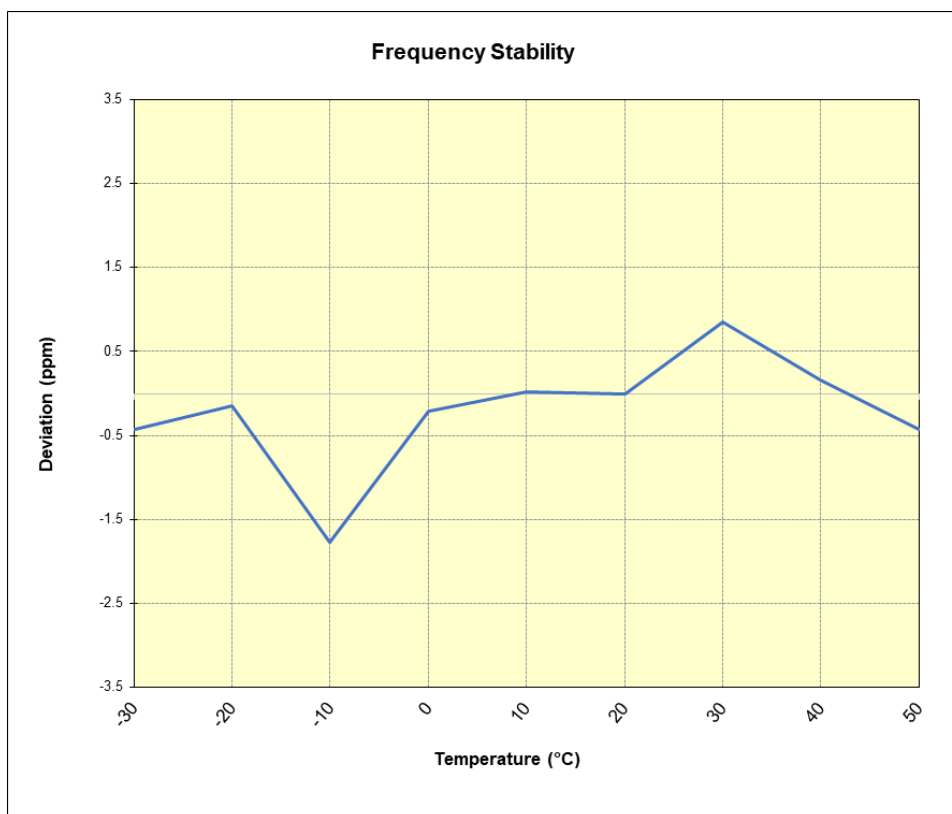


Plot 7-173. LTE Band 7 Frequency Stability Chart

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2501020001-10.A3L	Test Dates: 1/6/2025 - 2/28/2025	EUT Type: Portable Handset	Page 134 of 138

LTE Band 41/38					
			Operating Frequency (Hz):	2,593,000,000	
			Ref. Voltage (VDC):	4.43	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	2,592,980,033	-1,112	-0.0000429
		- 20	2,592,980,779	-366	-0.0000141
		- 10	2,592,976,559	-4,586	-0.0001769
		0	2,592,980,601	-544	-0.0000210
		+ 10	2,592,981,190	45	0.0000017
		+ 20 (Ref)	2,592,981,145	0	0.0000000
		+ 30	2,592,983,366	2,221	0.0000857
		+ 40	2,592,981,568	423	0.0000163
		+ 50	2,592,980,020	-1,125	-0.0000434
Battery Endpoint	3.40	+ 20	2,592,984,537	3,392	0.0001308

Table 7-49. LTE Band 41/38 Frequency Stability Data

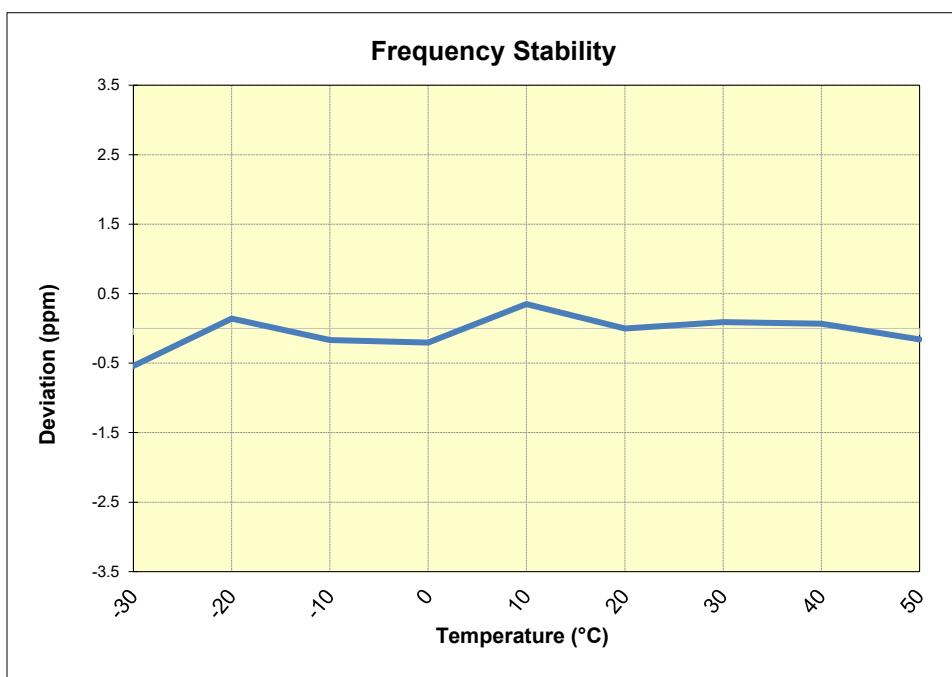


Plot 7-174. LTE Band 41/38 Frequency Stability Chart

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41					
		Operating Frequency (Hz):		2,593,000,000	
		Ref. Voltage (VDC):		4.43	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	2,592,984,188	-1,399	-0.0000540
		- 20	2,592,985,948	361	0.0000139
		- 10	2,592,985,154	-433	-0.0000167
		0	2,592,985,063	-524	-0.0000202
		+ 10	2,592,986,496	909	0.0000351
		+ 20 (Ref)	2,592,985,587	0	0.0000000
		+ 30	2,592,985,828	241	0.0000093
		+ 40	2,592,985,760	173	0.0000067
		+ 50	2,592,985,176	-411	-0.0000159
Battery Endpoint	3.40	+ 20	2,592,985,258	-329	-0.0000127

Table 7-50. NR Band n41 Frequency Stability Data



Plot 7-175. NR Band n41 Frequency Stability Chart

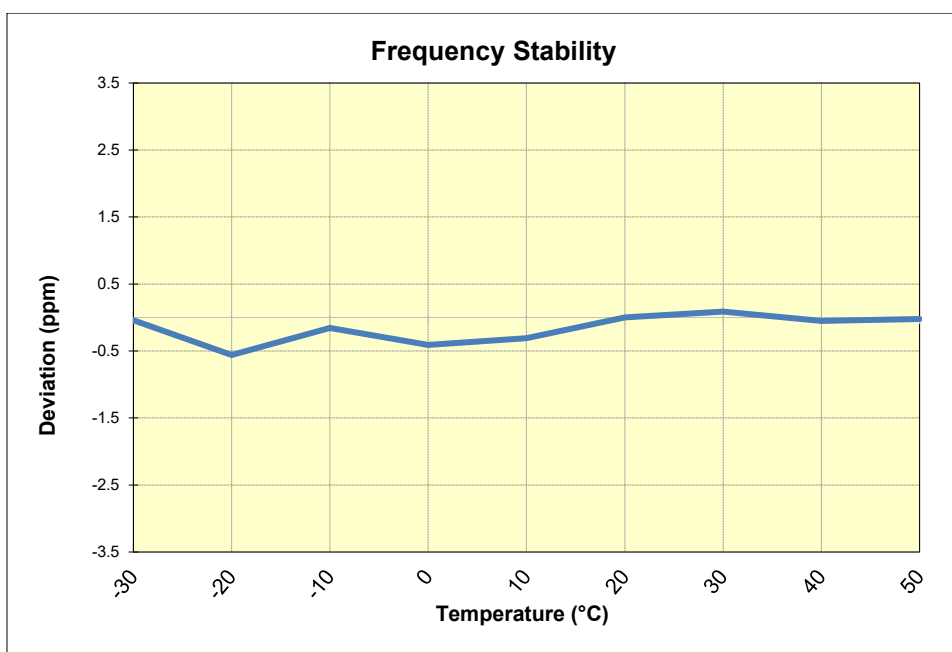
FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30

Operating Frequency (Hz):	2,310,000,000
Ref. Voltage (VDC):	4.43

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.43	- 30	2,310,085,562	-97	-0.0000042
		- 20	2,310,084,367	-1,292	-0.0000559
		- 10	2,310,085,294	-365	-0.0000158
		0	2,310,084,711	-948	-0.0000410
		+ 10	2,310,084,944	-715	-0.0000310
		+ 20 (Ref)	2,310,085,659	0	0.0000000
		+ 30	2,310,085,863	204	0.0000088
		+ 40	2,310,085,542	-117	-0.0000051
		+ 50	2,310,085,612	-47	-0.0000020
Battery Endpoint	3.40	+ 20	2,310,085,218	-441	-0.0000191

Table 7-51. NR Band n30 Frequency Stability Data



Plot 7-176. NR Band n30 Frequency Stability Chart

FCC ID: A3LSMG766U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMG766U** complies with all the requirements of Part 27 of the FCC rules.

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