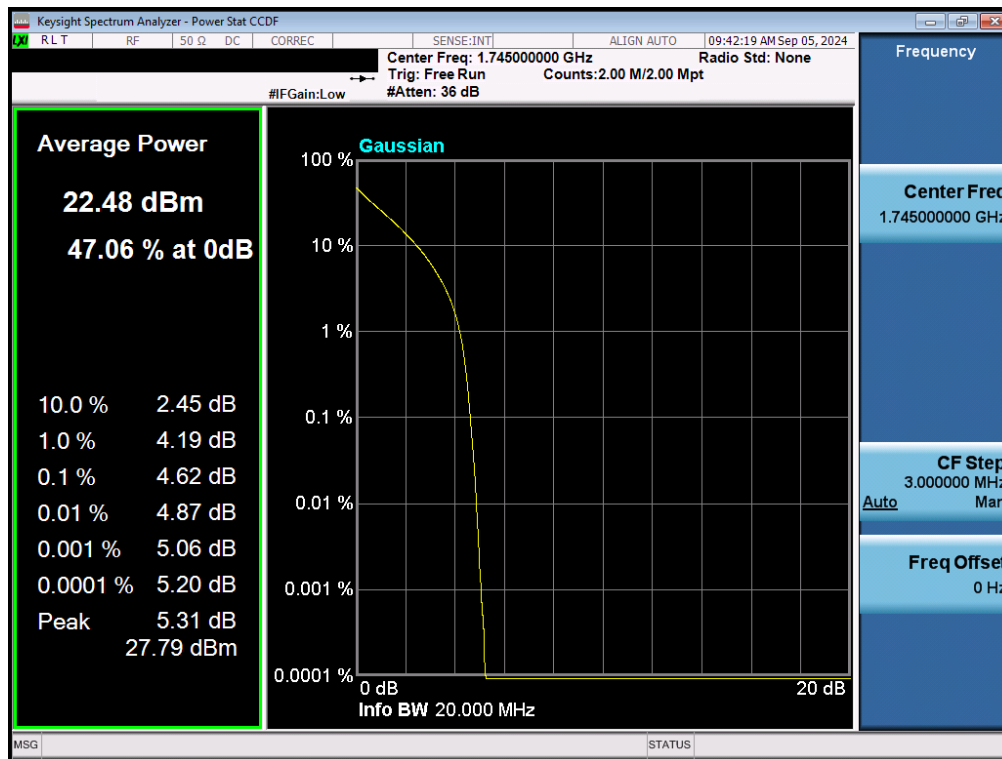
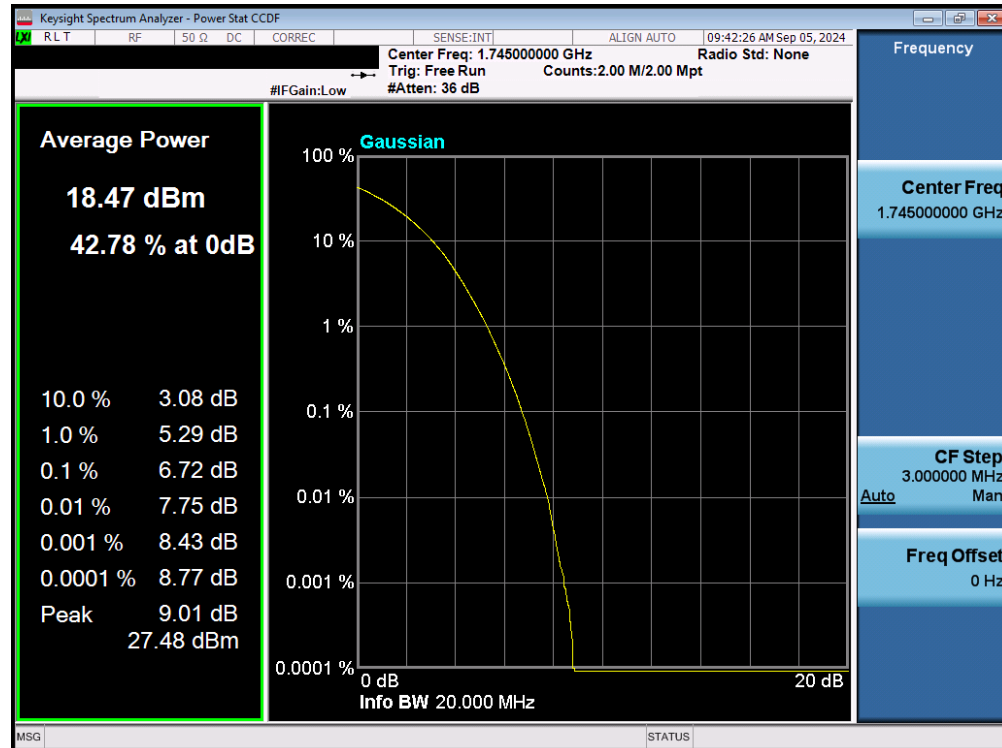


LTE Band 66/4 – ANT1



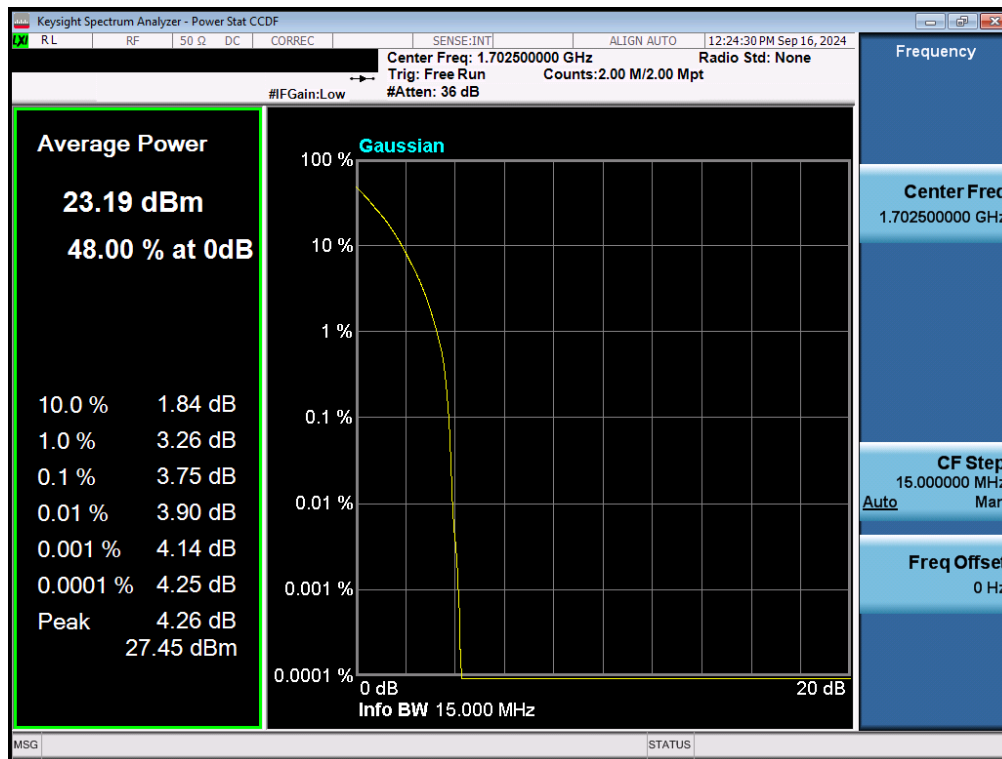
Plot 7-304. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT1)



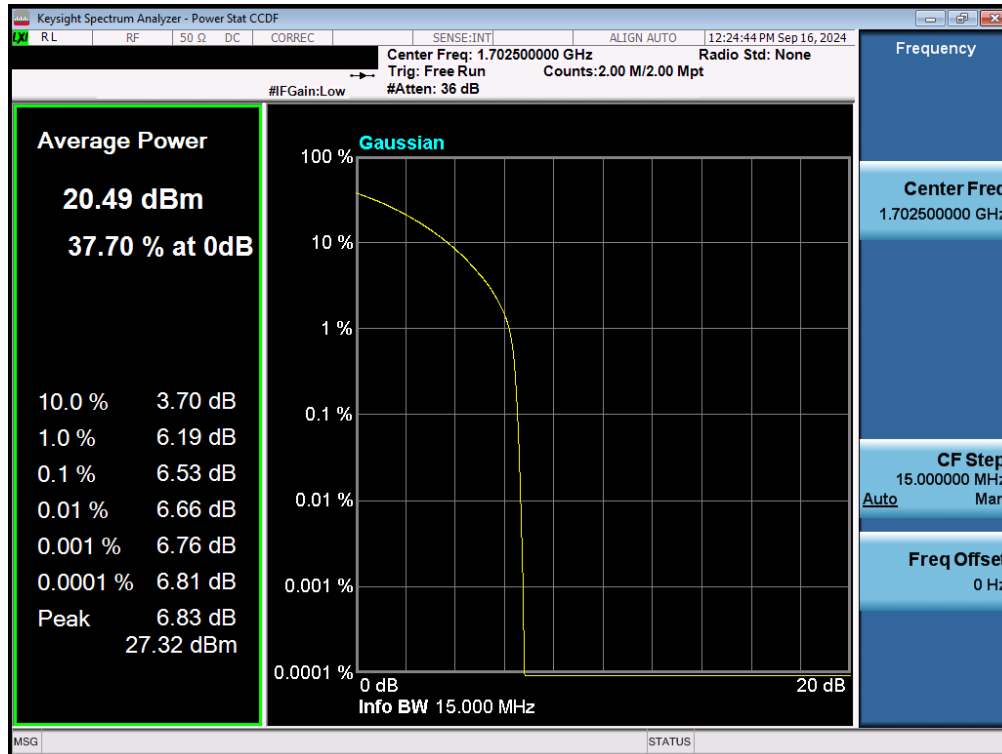
Plot 7-305. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 205 of 272

NR Band n70 – ANT1

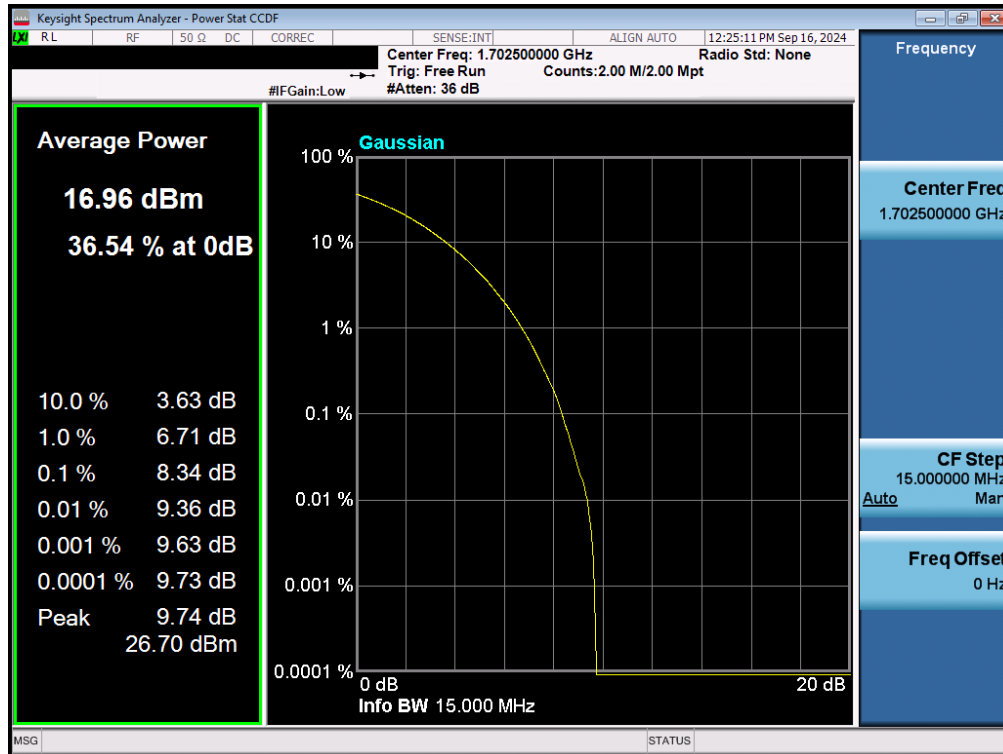


Plot 7-306. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK- Full RB - ANT1)



Plot 7-307. PAR Plot (NR Band n70 - 15.0MHz CP-OFDM QPSK - Full RB - ANT1)

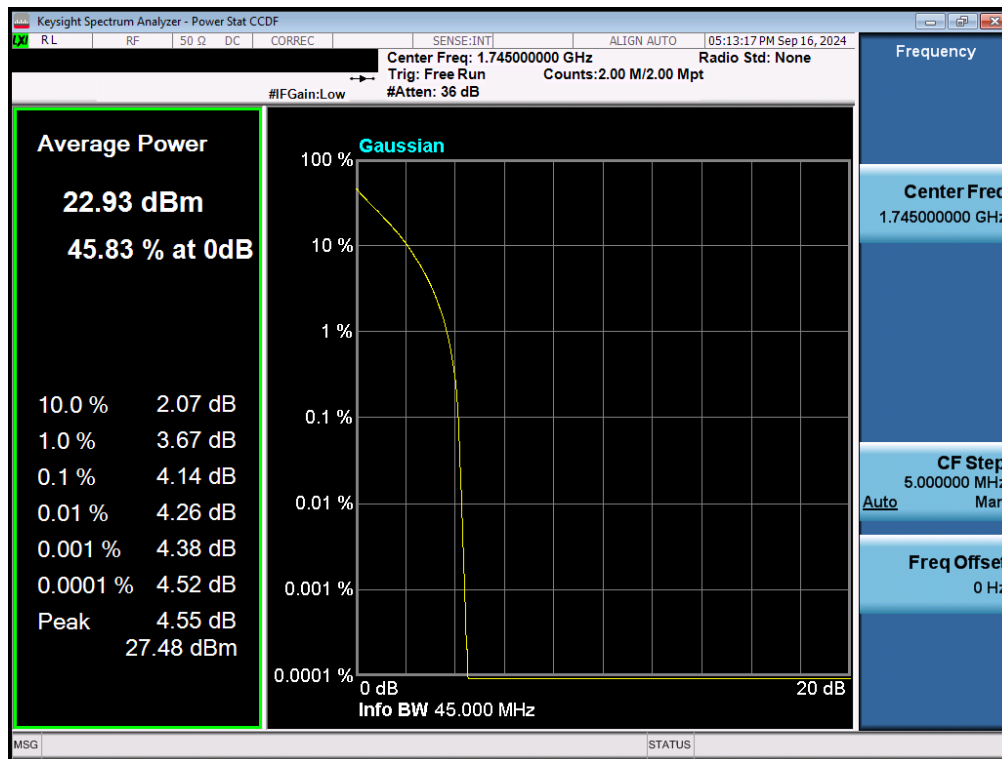
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 206 of 272



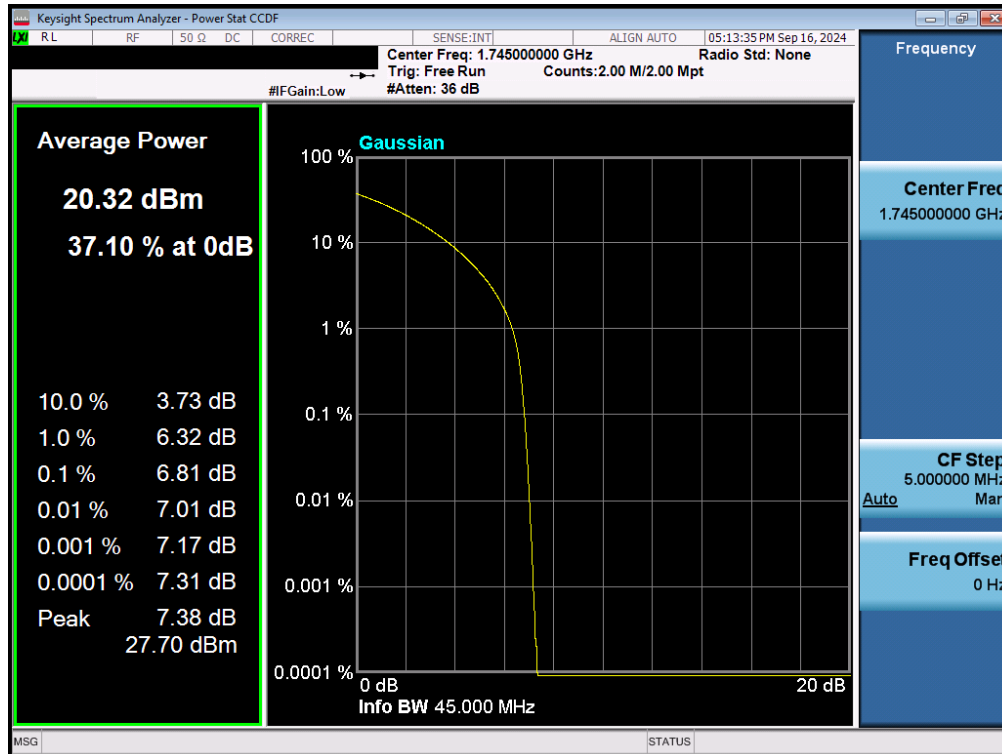
Plot 7-308. PAR Plot (NR Band n70 - 15.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 207 of 272

NR Band n66 – ANT1

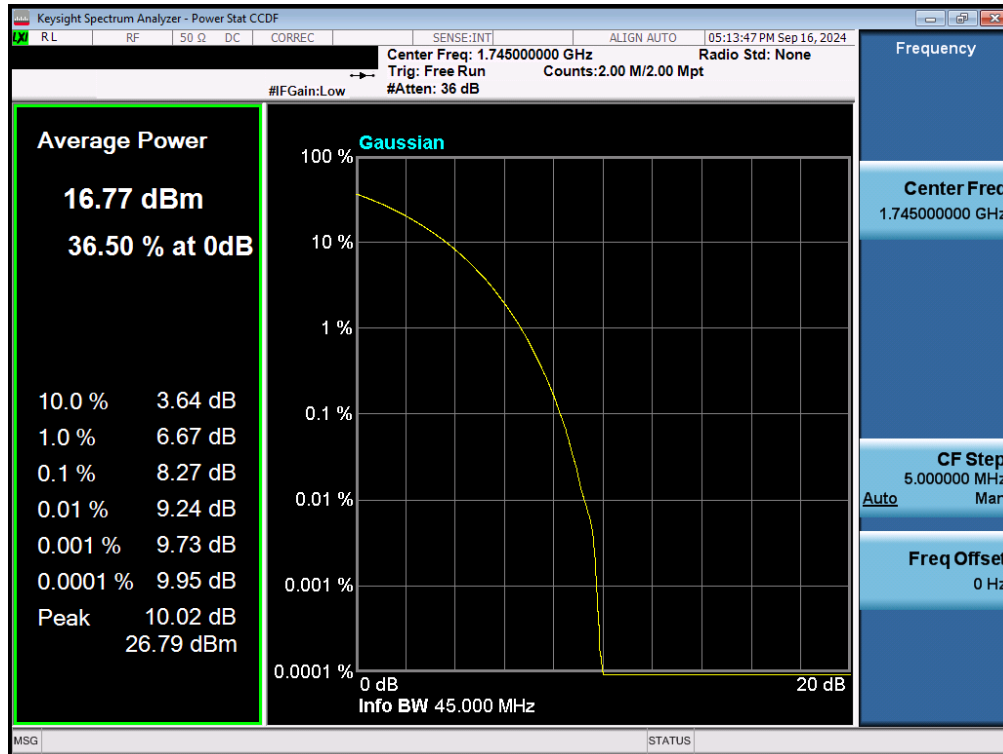


Plot 7-309. PAR Plot (NR Band n66 - 45.0MHz DFT-s-OFDM $\pi/2$ BPSK- Full RB - ANT1)



Plot 7-310. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM QPSK - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 208 of 272



Plot 7-311. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

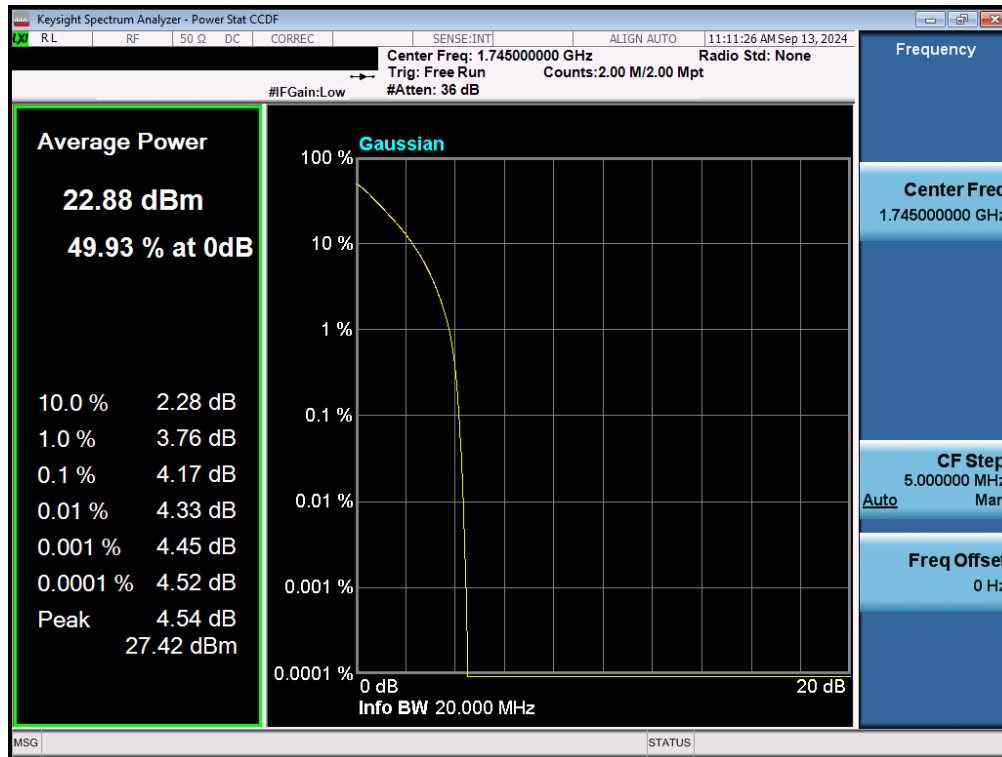
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 209 of 272

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
LTE-B66-4	20MHz	QPSK	22.88	4.17	13	-8.83
		256QAM	18.92	6.33	13	-6.67
	15MHz	QPSK	22.90	4.14	13	-8.86
		256QAM	18.91	6.34	13	-6.66
	10MHz	QPSK	22.96	4.21	13	-8.79
		256QAM	18.95	6.35	13	-6.65
	5MHz	QPSK	23.01	4.13	13	-8.87
		256QAM	19.01	6.33	13	-6.67
	3MHz	QPSK	23.04	4.04	13	-8.96
		256QAM	18.74	7.50	13	-5.50
	1.4MHz	QPSK	22.98	3.96	13	-9.04
		256QAM	18.95	6.35	13	-6.65
NR-n70	15MHz	$\pi/2$ BPSK	23.12	3.30	13	-9.70
		QPSK	20.68	6.34	13	-6.66
		256QAM	17.10	8.04	13	-4.96
	10MHz	$\pi/2$ BPSK	23.14	3.30	13	-9.70
		QPSK	20.72	6.28	13	-6.72
		256QAM	17.13	8.17	13	-4.83
	5MHz	$\pi/2$ BPSK	23.17	3.30	13	-9.70
		QPSK	20.78	6.11	13	-6.89
		256QAM	17.15	8.03	13	-4.97
NR-n66	45MHz	$\pi/2$ BPSK	22.52	4.06	13	-8.94
		QPSK	19.97	6.98	13	-6.02
		256QAM	16.44	8.32	13	-4.68
	40MHz	$\pi/2$ BPSK	22.43	3.80	13	-9.20
		QPSK	19.90	7.03	13	-5.97
		256QAM	16.36	8.35	13	-4.65
	35MHz	$\pi/2$ BPSK	22.39	3.98	13	-9.02
		QPSK	20.40	6.52	13	-6.48
		256QAM	16.96	8.31	13	-4.69
	30MHz	$\pi/2$ BPSK	22.94	3.70	13	-9.30
		QPSK	20.40	6.52	13	-6.48
		256QAM	16.96	8.31	13	-4.69
	20MHz	$\pi/2$ BPSK	23.09	3.59	13	-9.41
		QPSK	20.51	6.53	13	-6.47
		256QAM	16.93	8.26	13	-4.74
	15MHz	$\pi/2$ BPSK	22.98	3.51	13	-9.49
		QPSK	20.52	6.57	13	-6.43
		256QAM	16.90	8.25	13	-4.75
	10MHz	$\pi/2$ BPSK	22.84	3.60	13	-9.40
		QPSK	20.51	6.59	13	-6.41
		256QAM	16.89	8.41	13	-4.59
	5MHz	$\pi/2$ BPSK	22.95	3.59	13	-9.41
		QPSK	20.54	6.54	13	-6.46
		256QAM	16.95	8.25	13	-4.75

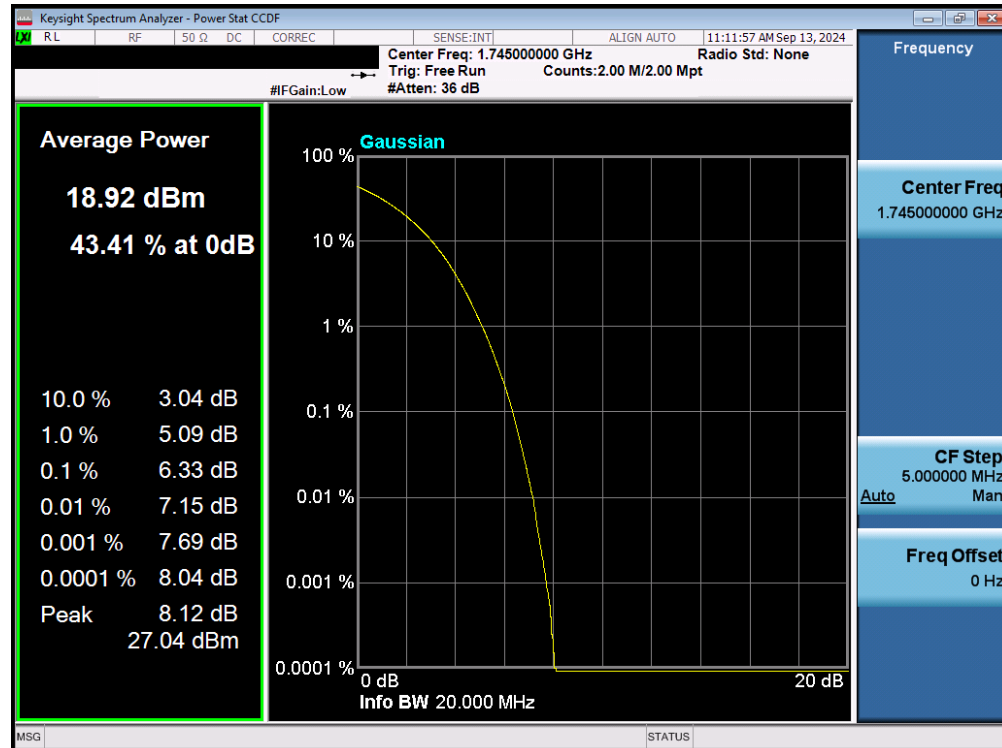
Table 7-25. Peak-Average Ratio Results – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 210 of 272

LTE Band 66/4 – ANT2



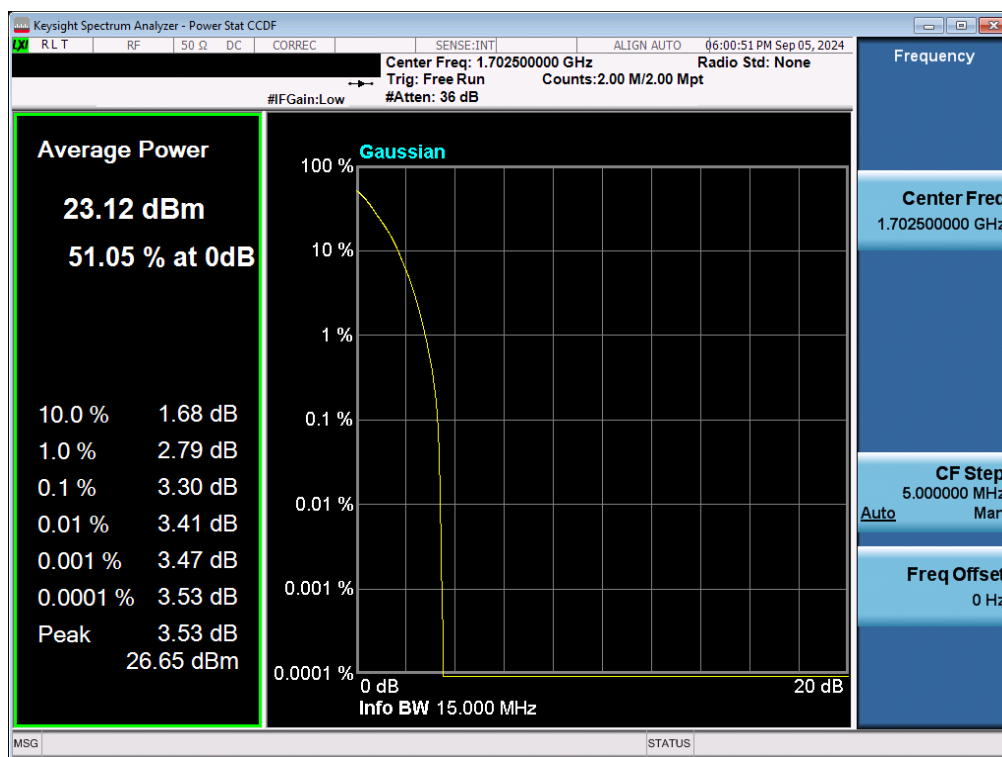
Plot 7-312. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT2)



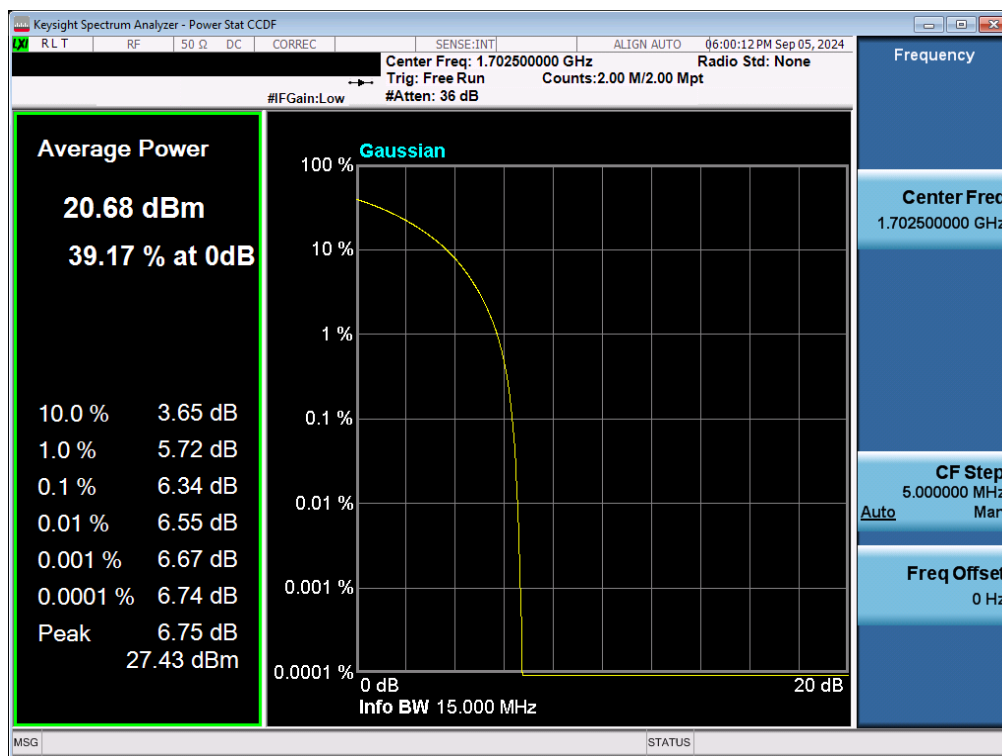
Plot 7-313. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 211 of 272

NR Band n70 – ANT2

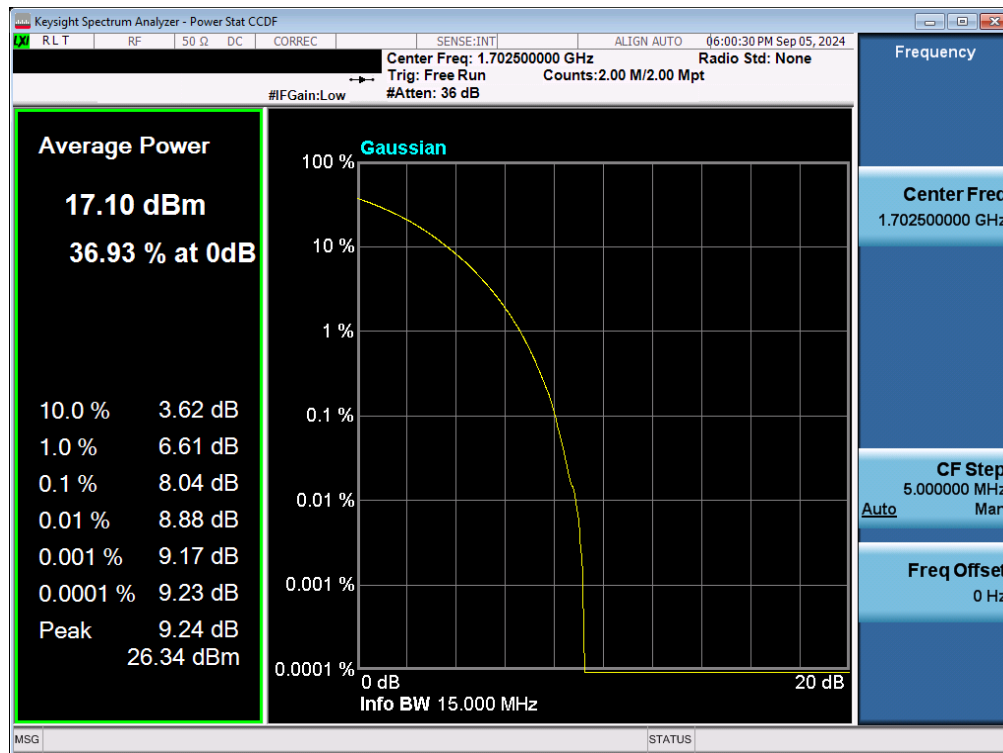


Plot 7-314. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK- Full RB - ANT2)



Plot 7-315. PAR Plot (NR Band n70 - 15.0MHz CP-OFDM QPSK - Full RB - ANT2)

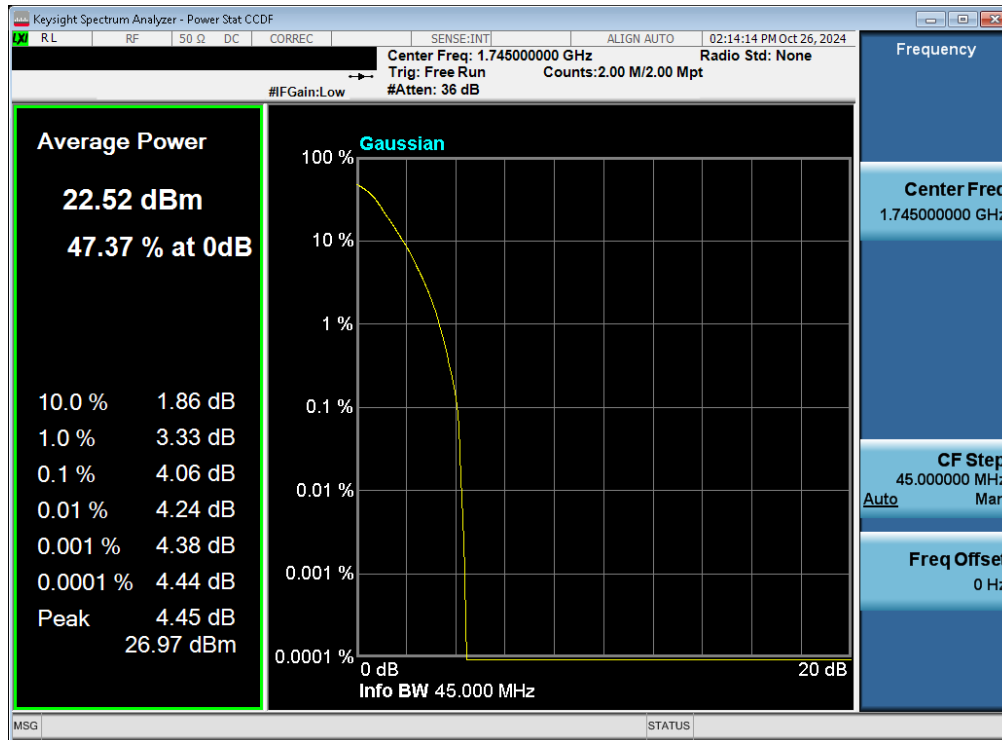
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 212 of 272



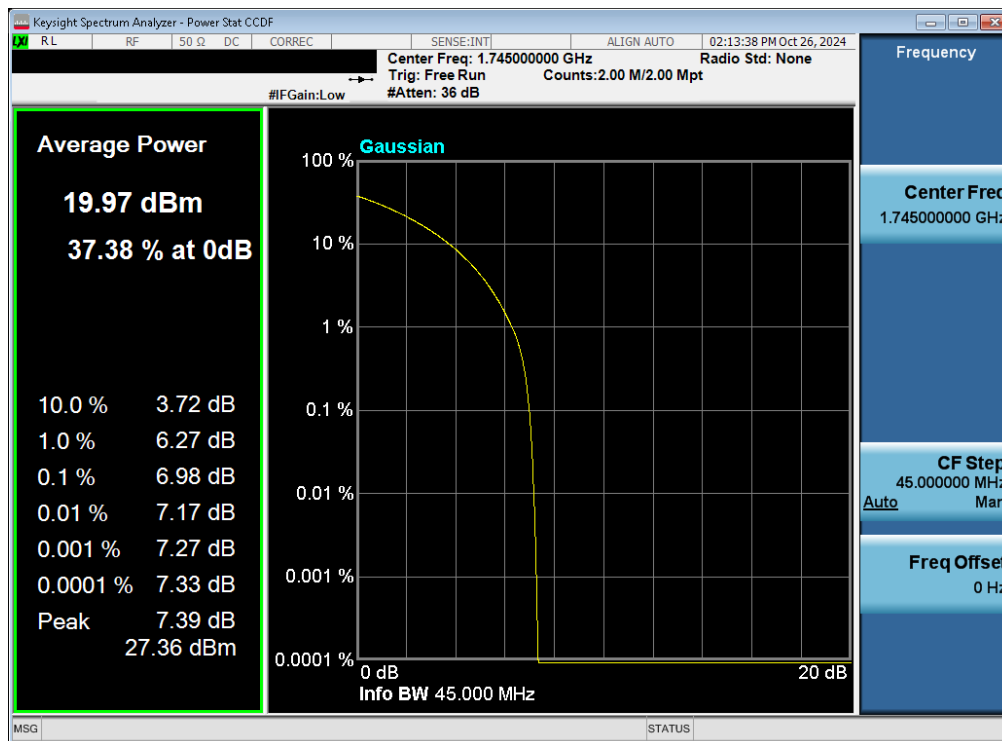
Plot 7-316. PAR Plot (NR Band n70 - 15.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 213 of 272

NR Band n66 – ANT2

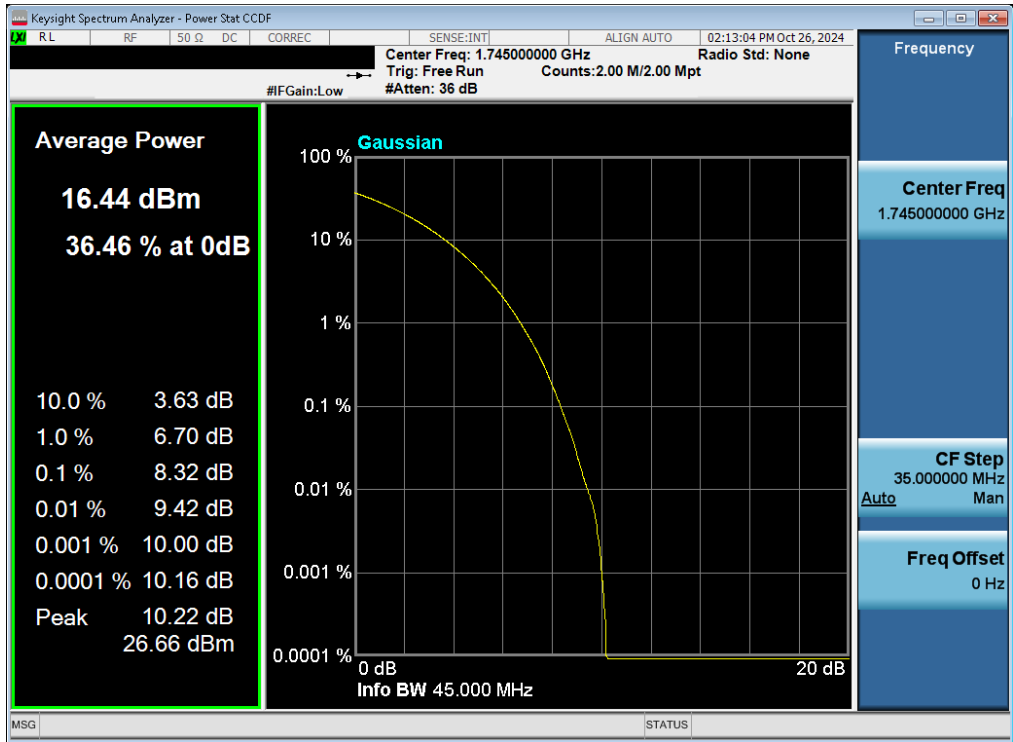


Plot 7-317. PAR Plot (NR Band n66 - 45.0MHz DFT-s-OFDM $\pi/2$ BPSK- Full RB - ANT2)



Plot 7-318. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM QPSK - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 214 of 272



Plot 7-319. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 215 of 272

7.7 Radiated Power (ERP/EIRP)

Test Overview

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

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

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

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 216 of 272

Test Setup

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

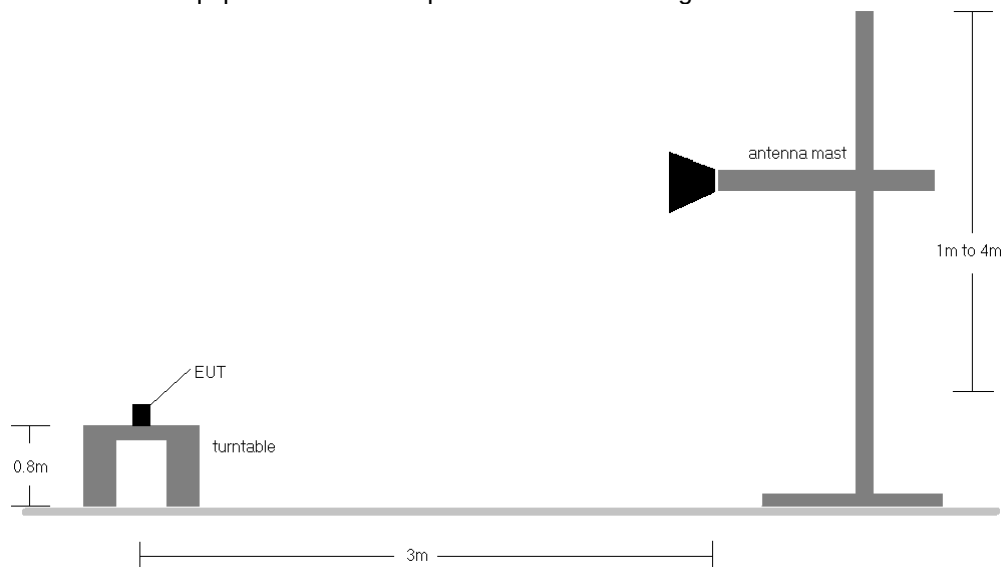


Figure 7-6. Radiated Test Setup <1GHz

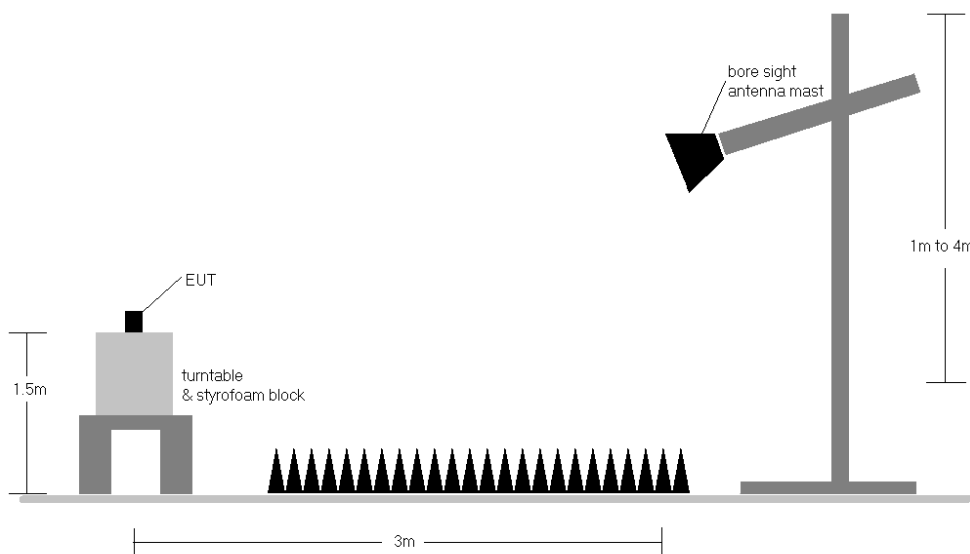


Figure 7-7. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 217 of 272



- 3) This unit was tested with its standard battery.
- 4) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 218 of 272

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	V	157	325	20.12	2.88	23.00	0.200	30.00	-7.00
1732.60	WCDMA1700	V	149	332	20.02	2.92	22.94	0.197	30.00	-7.06
1752.60	WCDMA1700	V	142	323	20.38	2.96	23.34	0.216	30.00	-6.66
1752.60	WCDMA1700	H	137	354	18.37	2.83	21.20	0.132	30.00	-8.80
1752.60	WCDMA1700 (WCP)	V	290	127	8.52	2.96	11.48	0.014	30.00	-18.52

Table 7-26. EIRP Data (WCDMA AWS) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.00	H	293	253	0.69	1 / 99	19.38	17.92	0.062	34.77	-16.85
	QPSK	680.50	H	300	247	0.81	1 / 99	20.08	18.74	0.075	34.77	-16.03
	QPSK	688.00	H	299	259	0.93	1 / 99	20.38	19.16	0.082	34.77	-15.61
	16-QAM	688.00	H	299	259	0.93	1 / 99	19.64	18.42	0.070	34.77	-16.35
15 MHz	QPSK	670.50	H	293	253	0.65	1 / 0	19.31	17.81	0.060	34.77	-16.96
	QPSK	680.50	H	300	247	0.81	1 / 74	19.96	18.62	0.073	34.77	-16.15
	QPSK	690.50	H	299	259	0.97	1 / 37	20.31	19.13	0.082	34.77	-15.64
	16-QAM	690.50	H	299	259	0.97	1 / 37	19.31	18.13	0.065	34.77	-16.64
10 MHz	QPSK	668.00	H	293	253	0.61	1 / 25	19.32	17.78	0.060	34.77	-16.99
	QPSK	680.50	H	300	247	0.81	1 / 25	19.86	18.52	0.071	34.77	-16.25
	QPSK	693.00	H	299	259	1.01	1 / 25	20.12	18.98	0.079	34.77	-15.79
	16-QAM	693.00	H	299	259	1.01	1 / 0	19.67	18.53	0.071	34.77	-16.24
5 MHz	QPSK	665.50	H	293	253	0.57	1 / 0	19.46	17.88	0.061	34.77	-16.89
	QPSK	680.50	H	300	247	0.81	1 / 12	19.88	18.54	0.071	34.77	-16.23
	QPSK	695.50	H	299	259	1.05	1 / 24	20.15	19.05	0.080	34.77	-15.72
	16-QAM	695.50	H	299	259	1.05	1 / 24	19.51	18.41	0.069	34.77	-16.36
20 MHz	Opposite Pol.	688.00	V	175	325	0.71	1 / 50	18.71	17.27	0.053	34.77	-17.50
	WCP	688.00	H	297	255	0.81	1 / 99	19.53	18.19	0.066	34.77	-16.58

Table 7-27. ERP Data (LTE Band 71) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.00	V	152	312	1.12	1 / 49	20.90	19.87	0.097	34.77	-14.90
	QPSK	707.50	V	153	317	1.14	1 / 49	20.93	19.92	0.098	34.77	-14.85
	QPSK	711.00	V	153	313	1.17	1 / 49	20.70	19.72	0.094	34.77	-15.05
	16-QAM	707.50	V	153	317	1.14	1 / 49	20.20	19.19	0.083	34.77	-15.58
5 MHz	QPSK	701.50	V	152	312	1.10	1 / 12	21.06	20.01	0.100	34.77	-14.77
	QPSK	707.50	V	153	317	1.14	1 / 12	21.13	20.13	0.103	34.77	-14.65
	QPSK	713.50	V	153	313	1.19	1 / 12	20.64	19.68	0.093	34.77	-15.09
	16-QAM	707.50	V	153	317	1.14	1 / 24	20.17	19.16	0.082	34.77	-15.61
3 MHz	QPSK	700.50	V	152	312	1.09	1 / 7	20.93	19.87	0.097	34.77	-14.90
	QPSK	707.50	V	153	317	1.14	1 / 14	20.92	19.92	0.098	34.77	-14.85
	QPSK	714.50	V	153	313	1.20	1 / 7	20.54	19.59	0.091	34.77	-15.18
	16-QAM	707.50	V	153	317	1.14	1 / 7	20.14	19.13	0.082	34.77	-15.64
1.4 MHz	QPSK	699.70	V	152	312	1.08	1 / 3	20.95	19.88	0.097	34.77	-14.89
	QPSK	707.50	V	153	317	1.14	1 / 3	20.78	19.77	0.095	34.77	-15.00
	QPSK	715.30	V	153	313	1.21	1 / 3	20.48	19.54	0.090	34.77	-15.23
	16-QAM	707.50	V	153	317	1.14	1 / 5	20.19	19.19	0.083	34.77	-15.58
10 MHz	Opposite Pol.	707.50	H	281	260	1.16	1 / 49	20.11	19.12	0.082	34.77	-15.65
	WCP	707.50	V	260	170	1.14	1 / 49	14.23	13.22	0.021	34.77	-21.55

Table 7-28. ERP Data (LTE Band 12) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.00	V	155	127	0.89	1 / 0	19.04	17.78	0.060	34.77	-16.99
	16-QAM	782.00	V	155	127	0.89	1 / 0	18.39	17.13	0.052	34.77	-17.64
5 MHz	QPSK	779.50	V	155	127	0.94	1 / 12	18.97	17.75	0.060	34.77	-17.02
	QPSK	782.00	V	155	127	0.89	1 / 24	19.10	17.84	0.061	34.77	-16.93
	QPSK	784.50	V	155	127	0.85	1 / 12	19.06	17.75	0.060	34.77	-17.02
	16-QAM	779.50	V	155	127	0.94	1 / 12	18.38	17.16	0.052	34.77	-17.61
10 MHz	Opposite Pol.	782.00	H	247	64	1.09	1 / 0	18.74	17.68	0.059	34.77	-17.10
	WCP	782.00	V	228	20	0.89	1 / 0	15.18	13.92	0.025	34.77	-20.85

Table 7-29. ERP Data (LTE Band 13) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT										Approved by: Technical Manager	
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset									Page 219 of 272	

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
35 MHz	$\pi/2$ BPSK	680.50	V	300	84	0.81	1 / 1	19.50	18.16	0.066	34.77	-16.61
	QPSK	680.50	V	300	84	0.81	1 / 1	19.24	17.90	0.062	34.77	-16.87
	16-QAM	680.50	V	300	84	0.81	1 / 1	19.96	18.62	0.073	34.77	-16.15
30 MHz	$\pi/2$ BPSK	678.00	V	300	81	0.65	1 / 1	19.27	17.76	0.060	34.77	-17.01
	$\pi/2$ BPSK	680.50	V	300	84	0.81	1 / 1	19.74	18.40	0.069	34.77	-16.37
	$\pi/2$ BPSK	683.00	V	300	91	0.97	1 / 1	20.37	19.19	0.083	34.77	-15.58
	QPSK	678.00	V	300	81	0.65	1 / 1	18.96	17.46	0.056	34.77	-17.32
	QPSK	680.50	V	300	84	0.81	1 / 1	19.51	18.17	0.066	34.77	-16.60
	QPSK	683.00	V	300	91	0.97	1 / 1	20.19	19.01	0.080	34.77	-15.77
	16-QAM	680.50	V	300	84	0.81	1 / 1	19.81	18.47	0.070	34.77	-16.30
25 MHz	$\pi/2$ BPSK	675.50	V	300	81	0.65	1 / 1	19.24	17.73	0.059	34.77	-17.04
	$\pi/2$ BPSK	680.50	V	300	84	0.81	1 / 1	19.67	18.33	0.068	34.77	-16.44
	$\pi/2$ BPSK	685.50	V	300	91	0.97	1 / 1	20.38	19.20	0.083	34.77	-15.57
	QPSK	675.50	V	300	81	0.65	1 / 1	19.22	17.72	0.059	34.77	-17.06
	QPSK	680.50	V	300	84	0.81	1 / 1	19.35	18.01	0.063	34.77	-16.76
	QPSK	685.50	V	300	91	0.97	1 / 1	20.33	19.15	0.082	34.77	-15.63
	16-QAM	680.50	V	300	84	0.81	1 / 1	19.66	18.32	0.068	34.77	-16.45
20 MHz	$\pi/2$ BPSK	673.00	H	300	81	0.69	1 / 104	19.05	17.59	0.057	34.77	-17.18
	$\pi/2$ BPSK	680.50	H	300	84	0.81	1 / 104	19.33	17.99	0.063	34.77	-16.78
	$\pi/2$ BPSK	688.00	H	300	91	0.93	1 / 104	19.96	18.74	0.075	34.77	-16.03
	QPSK	673.00	H	300	81	0.69	1 / 104	18.76	17.30	0.054	34.77	-17.47
	QPSK	680.50	H	300	84	0.81	1 / 104	19.15	17.81	0.060	34.77	-16.96
	QPSK	688.00	H	300	91	0.93	1 / 104	20.02	18.80	0.076	34.77	-15.97
	16-QAM	680.50	H	300	84	0.81	1 / 104	19.32	17.98	0.063	34.77	-16.79
15 MHz	$\pi/2$ BPSK	670.50	H	300	81	0.65	1 / 77	19.10	17.60	0.058	34.77	-17.17
	$\pi/2$ BPSK	680.50	H	300	84	0.81	1 / 39	19.39	18.05	0.064	34.77	-16.72
	$\pi/2$ BPSK	690.50	H	300	91	0.97	1 / 1	20.21	19.03	0.080	34.77	-15.74
	QPSK	670.50	H	300	81	0.65	1 / 77	18.78	17.28	0.053	34.77	-17.49
	QPSK	680.50	H	300	84	0.81	1 / 39	19.20	17.87	0.061	34.77	-16.91
	QPSK	690.50	H	300	91	0.97	1 / 1	19.99	18.81	0.076	34.77	-15.96
	16-QAM	680.50	H	300	84	0.81	1 / 39	19.53	18.20	0.066	34.77	-16.58
10 MHz	$\pi/2$ BPSK	668.00	H	300	81	0.61	1 / 26	19.09	17.55	0.057	34.77	-17.22
	$\pi/2$ BPSK	680.50	H	300	84	0.81	1 / 50	19.30	17.96	0.063	34.77	-16.81
	$\pi/2$ BPSK	693.00	H	300	91	1.01	1 / 26	20.09	18.95	0.079	34.77	-15.82
	QPSK	668.00	H	300	81	0.61	1 / 26	18.57	17.03	0.050	34.77	-17.74
	QPSK	680.50	H	300	84	0.81	1 / 50	19.11	17.77	0.060	34.77	-17.00
	QPSK	693.00	H	300	91	1.01	1 / 26	19.95	18.81	0.076	34.77	-15.97
	16-QAM	680.50	H	300	84	0.81	1 / 50	19.51	18.17	0.066	34.77	-16.60
5 MHz	$\pi/2$ BPSK	665.50	H	300	81	0.57	1 / 12	19.23	17.65	0.058	34.77	-17.12
	$\pi/2$ BPSK	680.50	H	300	84	0.81	1 / 23	19.64	18.30	0.068	34.77	-16.47
	$\pi/2$ BPSK	695.50	H	300	91	1.05	1 / 1	20.21	19.11	0.081	34.77	-15.66
	QPSK	665.50	H	300	81	0.57	1 / 12	18.80	17.21	0.053	34.77	-17.56
	QPSK	680.50	H	300	84	0.81	1 / 23	19.20	17.86	0.061	34.77	-16.91
	QPSK	695.50	H	300	91	1.05	1 / 1	20.05	18.95	0.079	34.77	-15.82
	16-QAM	695.50	H	300	91	1.05	1 / 1	19.20	18.10	0.065	34.77	-16.67
35 MHz	QPSK (CP-OFDM)	688.00	H	303	82	0.93	1 / 53	16.37	15.15	0.033	34.77	-19.62
	QPSK (Opposite Pol.)	688.00	V	169	351	0.86	1 / 1	17.52	16.23	0.042	34.77	-18.55
	QPSK (WCP)	688.00	H	277	93	0.93	1 / 104	17.01	15.79	0.038	34.77	-18.98

Table 7-30. EIRP Data (NR Band n71) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 220 of 272

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
15 MHz	$\pi/2$ BPSK	706.50	H	170	100	1.14	1 / 77	20.43	19.42	0.087	34.77	-15.35
	$\pi/2$ BPSK	707.50	H	143	288	1.14	1 / 77	19.69	18.68	0.074	34.77	-16.09
	$\pi/2$ BPSK	708.50	H	173	91	1.15	1 / 77	19.96	18.96	0.079	34.77	-15.81
	QPSK	706.50	H	170	100	1.14	1 / 77	20.33	19.32	0.085	34.77	-15.45
	QPSK	707.50	H	143	288	1.14	1 / 77	19.70	18.69	0.074	34.77	-16.08
	QPSK	708.50	H	173	91	1.15	1 / 77	19.77	18.77	0.075	34.77	-16.00
10 MHz	16-QAM	708.50	H	173	91	1.15	1 / 77	19.55	18.55	0.072	34.77	-16.22
	$\pi/2$ BPSK	704.00	H	170	100	1.12	1 / 50	20.61	19.58	0.091	34.77	-15.19
	$\pi/2$ BPSK	707.50	H	143	288	1.14	1 / 1	19.98	18.97	0.079	34.77	-15.80
	$\pi/2$ BPSK	711.00	H	173	91	1.17	1 / 50	19.92	18.94	0.078	34.77	-15.83
	QPSK	704.00	H	170	100	1.12	1 / 50	20.46	19.43	0.088	34.77	-15.34
	QPSK	707.50	H	143	288	1.14	1 / 1	19.91	18.90	0.078	34.77	-15.87
5 MHz	QPSK	711.00	H	173	91	1.17	1 / 50	19.81	18.83	0.076	34.77	-15.94
	16-QAM	711.00	H	173	91	1.17	1 / 50	19.67	18.69	0.074	34.77	-16.08
	$\pi/2$ BPSK	701.50	H	170	100	1.10	1 / 1	20.74	19.69	0.093	34.77	-15.08
	$\pi/2$ BPSK	707.50	H	173	92	1.14	1 / 12	19.57	18.57	0.072	34.77	-16.20
	$\pi/2$ BPSK	713.50	H	173	91	1.19	1 / 12	19.91	18.95	0.079	34.77	-15.82
	QPSK	701.50	H	170	100	1.10	1 / 1	20.22	19.17	0.083	34.77	-15.60
15 MHz	QPSK	707.50	H	173	92	1.14	1 / 12	19.63	18.62	0.073	34.77	-16.15
	QPSK	713.50	H	173	91	1.19	1 / 12	19.94	18.98	0.079	34.77	-15.79
	16-QAM	713.50	H	173	91	1.19	1 / 12	19.17	18.22	0.066	34.77	-16.56
	QPSK (CP-OFDM)	706.50	H	173	91	1.14	1 / 77	15.27	14.26	0.027	34.77	-20.51
15 MHz	QPSK (Opposite Pol.)	706.50	V	153	69	1.15	1 / 77	17.79	16.79	0.048	34.77	-17.98
	QPSK (WCP)	706.50	V	264	43	1.14	1 / 39	13.48	12.47	0.018	34.77	-22.30

Table 7-31. EIRP Data (NR Band n12) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.00	V	155	324	2.90	1 / 50	19.71	22.61	0.182	30.00	-7.39
	QPSK	1745.00	V	142	333	2.94	1 / 0	19.31	22.25	0.168	30.00	-7.75
	QPSK	1770.00	V	148	328	3.02	1 / 50	19.02	22.04	0.160	30.00	-7.96
	16-QAM	1720.00	V	155	324	2.90	1 / 50	18.88	21.78	0.151	30.00	-8.22
15 MHz	QPSK	1717.50	V	155	324	2.89	1 / 37	20.19	23.08	0.203	30.00	-6.92
	QPSK	1745.00	V	142	333	2.94	1 / 37	19.92	22.86	0.193	30.00	-7.14
	QPSK	1772.50	V	148	328	3.03	1 / 0	18.88	21.91	0.155	30.00	-8.09
	16-QAM	1717.50	V	155	324	2.89	1 / 37	19.45	22.34	0.171	30.00	-7.66
10 MHz	QPSK	1715.00	V	155	324	2.89	1 / 25	20.16	23.05	0.202	30.00	-6.95
	QPSK	1745.00	V	142	333	2.94	1 / 49	19.83	22.77	0.189	30.00	-7.23
	QPSK	1775.00	V	148	328	3.04	1 / 0	18.80	21.84	0.153	30.00	-8.16
	16-QAM	1715.00	V	155	324	2.89	1 / 0	19.22	22.11	0.163	30.00	-7.89
5 MHz	QPSK	1712.50	V	155	324	2.88	1 / 24	20.17	23.05	0.202	30.00	-6.95
	QPSK	1745.00	V	142	333	2.94	1 / 12	19.79	22.74	0.188	30.00	-7.26
	QPSK	1777.50	V	148	328	3.05	1 / 0	18.88	21.92	0.156	30.00	-8.08
	16-QAM	1712.50	V	155	324	2.88	1 / 0	19.27	22.15	0.164	30.00	-7.85
3 MHz	QPSK	1711.50	V	155	324	2.88	1 / 7	20.25	23.13	0.206	30.00	-6.87
	QPSK	1745.00	V	142	333	2.94	1 / 7	19.84	22.78	0.190	30.00	-7.22
	QPSK	1778.50	V	148	328	3.05	1 / 7	18.80	21.85	0.153	30.00	-8.15
	16-QAM	1711.50	V	155	324	2.88	1 / 0	19.25	22.13	0.163	30.00	-7.87
1.4 MHz	QPSK	1710.70	V	155	324	2.88	1 / 0	20.16	23.04	0.201	30.00	-6.96
	QPSK	1745.00	V	142	333	2.94	1 / 3	19.72	22.66	0.184	30.00	-7.34
	QPSK	1779.30	V	148	328	3.05	1 / 0	18.68	21.73	0.149	30.00	-8.27
	16-QAM	1710.70	V	155	324	2.88	1 / 0	19.10	21.98	0.158	30.00	-8.02
20 MHz	Opposite Pol.	1720.00	H	152	356	2.88	1 / 50	19.07	21.95	0.157	30.00	-8.05
	WCP	1720.00	V	146	203	2.90	1 / 0	5.17	8.07	0.006	30.00	-21.93

Table 7-32. EIRP Data (LTE Band 66/4) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 221 of 272

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
15 MHz	$\pi/2$ BPSK	1702.50	V	161	213	3.17	1 / 1	18.09	21.26	0.134	30.00	-8.74
	QPSK	1702.50	V	161	213	3.17	1 / 1	18.17	21.34	0.136	30.00	-8.66
	16-QAM	1702.50	V	161	213	3.17	1 / 1	16.96	20.13	0.103	30.00	-9.87
10 MHz	$\pi/2$ BPSK	1700.00	V	161	213	3.19	1 / 50	18.13	21.32	0.135	30.00	-8.68
	$\pi/2$ BPSK	1702.50	V	161	213	3.17	1 / 50	18.26	21.43	0.139	30.00	-8.57
	$\pi/2$ BPSK	1705.00	V	161	213	3.15	1 / 50	18.14	21.29	0.135	30.00	-8.71
	QPSK	1700.00	V	161	213	3.19	1 / 50	18.31	21.49	0.141	30.00	-8.51
	QPSK	1702.50	V	161	213	3.17	1 / 50	18.16	21.33	0.136	30.00	-8.67
	QPSK	1705.00	V	161	213	3.15	1 / 50	18.14	21.30	0.135	30.00	-8.70
	16-QAM	1705.00	V	161	213	3.15	1 / 50	16.77	19.93	0.098	30.00	-10.07
5 MHz	$\pi/2$ BPSK	1697.50	V	161	213	3.18	1 / 23	17.87	21.06	0.128	30.00	-8.94
	$\pi/2$ BPSK	1702.50	V	161	213	3.17	1 / 12	18.09	21.26	0.134	30.00	-8.74
	$\pi/2$ BPSK	1707.50	V	161	213	3.13	1 / 1	18.26	21.39	0.138	30.00	-8.61
	QPSK	1697.50	V	161	213	3.18	1 / 23	17.96	21.14	0.130	30.00	-8.86
	QPSK	1702.50	V	161	213	3.17	1 / 12	18.08	21.25	0.133	30.00	-8.75
	QPSK	1707.50	V	161	213	3.13	1 / 1	18.20	21.33	0.136	30.00	-8.67
	16-QAM	1707.50	V	161	213	3.13	1 / 1	16.97	20.10	0.102	30.00	-9.90
15 MHz	QPSK (CP-OFDM)	1702.50	V	161	213	3.17	1 / 1	15.71	18.88	0.077	30.00	-11.12
	QPSK (Opposite Pol.)	1702.50	H	150	14	3.17	1 / 1	15.61	18.78	0.076	30.00	-11.22
	QPSK (WCP)	1702.50	V	101	244	3.17	1 / 1	14.91	18.08	0.064	30.00	-11.92

Table 7-33. EIRP Data (NR Band n70) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 222 of 272

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]
45 MHz	$\pi/2$ BPSK	1732.50	V	146	333	2.91	1 / 1	19.22	22.12	0.163	30.00	-7.88
	$\pi/2$ BPSK	1745.00	V	143	325	2.94	1 / 1	19.22	22.16	0.165	30.00	-7.84
	$\pi/2$ BPSK	1757.50	V	143	324	3.00	1 / 1	19.34	22.35	0.172	30.00	-7.65
	QPSK	1732.50	V	146	333	2.91	1 / 1	19.03	21.93	0.156	30.00	-8.07
	QPSK	1745.00	V	143	325	2.94	1 / 1	18.68	21.63	0.145	30.00	-8.37
	QPSK	1757.50	V	143	324	3.00	1 / 1	19.36	22.37	0.172	30.00	-7.63
40 MHz	16-QAM	1757.50	V	143	324	3.00	1 / 1	18.04	21.04	0.127	30.00	-8.96
	$\pi/2$ BPSK	1730.00	V	146	333	2.92	1 / 108	19.12	22.04	0.160	30.00	-7.96
	$\pi/2$ BPSK	1745.00	V	143	325	2.94	1 / 214	19.06	22.00	0.159	30.00	-8.00
	$\pi/2$ BPSK	1760.00	V	143	324	2.99	1 / 108	19.20	22.19	0.165	30.00	-7.81
	QPSK	1730.00	V	146	333	2.92	1 / 108	18.92	21.84	0.153	30.00	-8.16
	QPSK	1745.00	V	143	325	2.94	1 / 214	18.88	21.82	0.152	30.00	-8.18
35 MHz	QPSK	1760.00	V	143	324	2.99	1 / 108	19.09	22.08	0.161	30.00	-7.92
	16-QAM	1760.00	V	143	324	2.99	1 / 108	17.93	20.92	0.123	30.00	-9.08
	$\pi/2$ BPSK	1725.00	V	146	333	2.91	1 / 80	19.22	22.13	0.163	30.00	-7.87
	$\pi/2$ BPSK	1745.00	V	143	325	2.94	1 / 80	18.96	21.90	0.155	30.00	-8.10
	$\pi/2$ BPSK	1765.00	V	143	324	3.00	1 / 80	19.08	22.09	0.162	30.00	-7.91
	QPSK	1725.00	V	146	333	2.91	1 / 80	18.89	21.80	0.151	30.00	-8.20
30 MHz	QPSK	1745.00	V	143	325	2.94	1 / 80	19.19	22.13	0.163	30.00	-7.87
	QPSK	1765.00	V	143	324	3.00	1 / 80	18.75	21.76	0.150	30.00	-8.24
	16-QAM	1765.00	V	143	324	3.00	1 / 80	17.82	20.83	0.121	30.00	-9.17
	$\pi/2$ BPSK	1725.00	V	146	333	2.91	1 / 80	19.11	22.01	0.159	30.00	-7.99
	$\pi/2$ BPSK	1745.00	V	143	325	2.94	1 / 158	19.22	22.16	0.164	30.00	-7.84
	$\pi/2$ BPSK	1765.00	V	143	324	3.00	1 / 80	19.28	22.28	0.169	30.00	-7.72
25 MHz	QPSK	1725.00	V	146	333	2.91	1 / 80	18.92	21.83	0.152	30.00	-8.17
	QPSK	1745.00	V	143	325	2.94	1 / 158	19.03	21.97	0.157	30.00	-8.03
	QPSK	1765.00	V	143	324	3.00	1 / 80	19.45	22.45	0.176	30.00	-7.55
	16-QAM	1745.00	V	143	325	2.94	1 / 158	18.14	21.09	0.128	30.00	-8.91
	$\pi/2$ BPSK	1722.5	V	146	333	2.90	1 / 66	19.14	22.04	0.160	30.00	-7.96
	$\pi/2$ BPSK	1745.0	V	143	325	2.94	1 / 131	19.24	22.18	0.165	30.00	-7.82
20 MHz	$\pi/2$ BPSK	1767.5	V	143	324	3.01	1 / 1	19.23	22.25	0.168	30.00	-7.75
	QPSK	1722.5	V	146	333	2.90	1 / 66	18.97	21.87	0.154	30.00	-8.13
	QPSK	1745.0	V	143	325	2.94	1 / 131	18.83	21.77	0.150	30.00	-8.23
	QPSK	1767.5	V	143	324	3.01	1 / 1	19.41	22.43	0.175	30.00	-7.57
	16-QAM	1745.0	V	143	325	2.94	1 / 131	18.41	21.35	0.137	30.00	-8.65
	$\pi/2$ BPSK	1720.00	V	146	333	2.90	1 / 104	18.79	21.69	0.148	30.00	-8.31
15 MHz	$\pi/2$ BPSK	1745.00	V	143	325	2.94	1 / 53	18.86	21.80	0.151	30.00	-8.20
	$\pi/2$ BPSK	1770.00	V	143	324	3.02	1 / 53	18.97	21.99	0.158	30.00	-8.01
	QPSK	1720.00	V	146	333	2.90	1 / 104	18.71	21.60	0.145	30.00	-8.40
	QPSK	1745.00	V	143	325	2.94	1 / 53	18.62	21.56	0.143	30.00	-8.44
	QPSK	1770.00	V	143	324	3.02	1 / 53	19.04	22.06	0.161	30.00	-7.94
	16-QAM	1745.00	V	143	325	2.94	1 / 53	18.26	21.20	0.132	30.00	-8.80
10 MHz	$\pi/2$ BPSK	1717.50	V	146	333	2.89	1 / 77	19.01	21.91	0.155	30.00	-8.09
	$\pi/2$ BPSK	1745.00	V	143	325	2.94	1 / 77	19.09	22.03	0.160	30.00	-7.97
	$\pi/2$ BPSK	1772.50	V	143	324	3.03	1 / 39	19.08	22.11	0.163	30.00	-7.89
	QPSK	1717.50	V	146	333	2.89	1 / 77	18.92	21.82	0.152	30.00	-8.18
	QPSK	1745.00	V	143	325	2.94	1 / 77	18.94	21.88	0.154	30.00	-8.12
	QPSK	1772.50	V	143	324	3.03	1 / 39	18.95	21.98	0.158	30.00	-8.02
5 MHz	16-QAM	1745.00	V	143	325	2.94	1 / 77	18.25	21.20	0.132	30.00	-8.80
	$\pi/2$ BPSK	1715.00	V	146	333	2.89	1 / 26	18.78	21.67	0.147	30.00	-8.33
	$\pi/2$ BPSK	1745.00	V	143	325	2.94	1 / 26	19.10	22.04	0.160	30.00	-7.96
	$\pi/2$ BPSK	1775.00	V	143	324	3.04	1 / 1	18.99	22.02	0.159	30.00	-7.98
	QPSK	1715.00	V	146	333	2.89	1 / 26	18.59	21.48	0.141	30.00	-8.52
	QPSK	1745.00	V	143	325	2.94	1 / 26	18.94	21.88	0.154	30.00	-8.12
45 MHz	QPSK	1775.00	V	143	324	3.04	1 / 1	19.09	22.13	0.163	30.00	-7.87
	16-QAM	1775.00	V	143	324	3.04	1 / 1	17.95	20.99	0.126	30.00	-9.01
	$\pi/2$ BPSK	1712.50	V	146	333	2.88	1 / 12	18.84	21.73	0.149	30.00	-8.27
	$\pi/2$ BPSK	1745.00	V	143	325	2.94	1 / 12	19.01	21.95	0.157	30.00	-8.05
	$\pi/2$ BPSK	1777.50	V	143	324	3.05	1 / 1	18.97	22.02	0.159	30.00	-7.98
	QPSK	1712.50	V	146	333	2.88	1 / 12	18.73	21.61	0.145	30.00	-8.39
45 MHz	QPSK	1745.00	V	143	325	2.94	1 / 12	19.02	21.97	0.157	30.00	-8.03
	QPSK	1777.50	V	143	324	3.05	1 / 1	19.02	22.07	0.161	30.00	-7.93
	16-QAM	1777.50	V	143	324	3.05	1 / 1	18.35	21.39	0.138	30.00	-8.61
45 MHz	QPSK (CP-OFDM)	1760.00	V	156	334	2.99	1 / 108	17.35	20.34	0.108	30.00	-9.66
	QPSK (Opposite Pol.)	1760.00	H	140	1	2.81	1 / 108	18.57	21.38	0.138	30.00	-8.62
	QPSK (WCP)	1760.00	V	179	188	2.99	1 / 108	19.16	22.15	0.164	30.00	-7.85

Table 7-34. EIRP Data (NR Band n66) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 223 of 272

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.00	H	300	88	0.69	1 / 50	18.64	17.18	0.052	34.77	-17.59
	QPSK	680.50	H	303	83	0.81	1 / 99	18.13	16.79	0.048	34.77	-17.98
	QPSK	688.00	H	300	95	0.93	1 / 50	18.44	17.22	0.053	34.77	-17.55
	16-QAM	688.00	H	300	95	0.93	1 / 50	17.60	16.38	0.043	34.77	-18.39
15 MHz	QPSK	670.50	H	300	88	0.65	1 / 74	18.73	17.22	0.053	34.77	-17.55
	QPSK	680.50	H	303	83	0.81	1 / 0	18.22	16.88	0.049	34.77	-17.89
	QPSK	690.50	H	300	95	0.97	1 / 0	18.30	17.12	0.051	34.77	-17.65
	16-QAM	690.50	H	300	95	0.97	1 / 37	17.48	16.30	0.043	34.77	-18.48
10 MHz	QPSK	668.00	H	300	88	0.61	1 / 49	18.62	17.07	0.051	34.77	-17.70
	QPSK	680.50	H	303	83	0.81	1 / 0	18.24	16.90	0.049	34.77	-17.87
	QPSK	693.00	H	300	95	1.01	1 / 0	18.28	17.14	0.052	34.77	-17.63
	16-QAM	693.00	H	300	95	1.01	1 / 25	17.53	16.39	0.044	34.77	-18.38
5 MHz	QPSK	665.50	H	300	88	0.57	1 / 12	18.76	17.17	0.052	34.77	-17.60
	QPSK	680.50	H	303	83	0.81	1 / 0	18.38	17.04	0.051	34.77	-17.73
	QPSK	695.50	H	300	95	1.05	1 / 0	18.42	17.32	0.054	34.77	-17.45
	16-QAM	695.50	H	300	95	1.05	1 / 12	17.60	16.50	0.045	34.77	-18.27
20 MHz	Opposite Pol.	688.00	V	175	316	0.69	1 / 0	17.57	16.11	0.041	34.77	-18.66
	WCP	688.00	H	297	96	0.93	1 / 50	16.30	15.08	0.032	34.77	-19.69

Table 7-35. ERP Data (LTE Band 71) – Ant2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.00	V	178	121	1.12	1 / 49	18.16	17.13	0.052	34.77	-17.64
	QPSK	707.50	V	172	121	1.14	1 / 49	18.63	17.62	0.058	34.77	-17.15
	QPSK	711.00	V	175	121	1.17	1 / 25	18.54	17.56	0.057	34.77	-17.21
	16-QAM	711.00	V	175	121	1.17	1 / 25	17.71	16.73	0.047	34.77	-18.04
5 MHz	QPSK	701.50	V	178	121	1.10	1 / 0	18.24	17.19	0.052	34.77	-17.58
	QPSK	707.50	V	172	121	1.14	1 / 24	18.44	17.43	0.055	34.77	-17.34
	QPSK	713.50	V	175	121	1.19	1 / 12	18.54	17.58	0.057	34.77	-17.19
	16-QAM	713.50	V	175	121	1.19	1 / 0	17.71	16.75	0.047	34.77	-18.02
3 MHz	QPSK	700.50	V	178	121	1.09	1 / 14	18.17	17.11	0.051	34.77	-17.66
	QPSK	707.50	V	172	121	1.14	1 / 0	18.52	17.51	0.056	34.77	-17.26
	QPSK	714.50	V	175	121	1.20	1 / 14	18.37	17.42	0.055	34.77	-17.35
	16-QAM	714.50	V	175	121	1.20	1 / 7	17.98	17.03	0.050	34.77	-17.74
1.4 MHz	QPSK	699.70	V	178	121	1.08	1 / 3	17.98	16.91	0.049	34.77	-17.86
	QPSK	707.50	V	172	121	1.14	1 / 0	18.53	17.53	0.057	34.77	-17.24
	QPSK	715.30	V	175	121	1.21	1 / 0	18.29	17.35	0.054	34.77	-17.42
	16-QAM	699.70	V	178	121	1.08	1 / 5	17.42	16.35	0.043	34.77	-18.42
	16-QAM	715.30	V	175	121	1.21	1 / 3	17.89	16.94	0.049	34.77	-17.83
10 MHz	Opposite Pol.	707.50	H	281	82	1.16	1 / 0	18.38	17.39	0.055	34.77	-17.38
	WCP	707.50	V	254	90	1.14	1 / 49	18.24	17.23	0.053	34.77	-17.54

Table 7-36. ERP Data (LTE Band 12) – Ant2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.00	V	139	253	0.89	1 / 0	20.91	19.65	0.092	34.77	-15.12
	16-QAM	782.00	V	139	253	0.89	1 / 0	20.21	18.95	0.079	34.77	-15.82
5 MHz	QPSK	779.50	V	139	253	0.94	1 / 12	20.79	19.58	0.091	34.77	-15.19
	QPSK	782.00	V	139	253	0.89	1 / 12	20.93	19.67	0.093	34.77	-15.10
	QPSK	784.50	V	139	253	0.85	1 / 12	20.87	19.56	0.090	34.77	-15.21
	16-QAM	784.50	V	139	253	0.85	1 / 12	20.35	19.05	0.080	34.77	-15.72
10 MHz	Opposite Pol.	782.00	H	224	269	1.09	1 / 0	20.50	19.44	0.088	34.77	-15.34
	WCP	782.00	V	222	176	0.89	1 / 49	15.57	14.31	0.027	34.77	-20.46

Table 7-37. ERP Data (LTE Band 13) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT								Approved by: Technical Manager			
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset								Page 224 of 272		

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
35 MHz	$\pi/2$ BPSK	680.50	V	136	241	0.65	1 / 1	23.60	22.10	0.162	34.77	-12.67
	QPSK	680.50	V	136	241	0.65	1 / 1	23.56	22.06	0.161	34.77	-12.71
	16-QAM	680.50	V	136	241	0.65	1 / 1	22.75	21.25	0.133	34.77	-13.52
30 MHz	$\pi/2$ BPSK	678.00	V	149	243	0.65	1 / 1	23.65	22.15	0.164	34.77	-12.62
	$\pi/2$ BPSK	680.50	V	136	241	0.81	1 / 1	23.68	22.34	0.171	34.77	-12.43
	$\pi/2$ BPSK	683.00	V	136	241	0.97	1 / 1	23.38	22.20	0.166	34.77	-12.57
	QPSK	678.00	V	136	241	0.65	1 / 1	23.66	22.16	0.164	34.77	-12.61
	QPSK	680.50	V	136	241	0.81	1 / 1	23.67	22.33	0.171	34.77	-12.44
	QPSK	683.00	V	149	243	0.97	1 / 1	23.30	22.12	0.163	34.77	-12.65
	16-QAM	680.50	V	136	241	0.81	1 / 1	22.44	21.10	0.129	34.77	-13.67
25 MHz	$\pi/2$ BPSK	675.50	V	149	243	0.65	1 / 1	23.62	22.12	0.163	34.77	-12.65
	$\pi/2$ BPSK	680.50	V	136	241	0.81	1 / 1	23.61	22.27	0.169	34.77	-12.50
	$\pi/2$ BPSK	685.50	V	136	241	0.97	1 / 1	23.39	22.21	0.166	34.77	-12.56
	QPSK	675.50	V	136	241	0.65	1 / 1	23.92	22.42	0.175	34.77	-12.35
	QPSK	680.50	V	136	241	0.81	1 / 1	23.51	22.17	0.165	34.77	-12.60
	QPSK	685.50	V	149	243	0.97	1 / 1	23.44	22.26	0.168	34.77	-12.51
	16-QAM	680.50	V	136	241	0.81	1 / 1	22.29	20.95	0.124	34.77	-13.82
20 MHz	$\pi/2$ BPSK	673.00	V	149	243	0.69	1 / 53	20.74	19.28	0.085	34.77	-15.49
	$\pi/2$ BPSK	680.50	V	136	241	0.81	1 / 104	19.97	18.63	0.073	34.77	-16.14
	$\pi/2$ BPSK	688.00	V	136	241	0.93	1 / 104	19.86	18.64	0.073	34.77	-16.13
	QPSK	673.00	V	149	243	0.69	1 / 53	20.50	19.04	0.080	34.77	-15.73
	QPSK	680.50	V	136	241	0.81	1 / 104	19.87	18.53	0.071	34.77	-16.24
	QPSK	688.00	V	136	241	0.93	1 / 104	20.12	18.90	0.078	34.77	-15.87
	16-QAM	673.00	V	149	243	0.69	1 / 53	19.37	17.91	0.062	34.77	-16.86
	16-QAM	680.50	V	136	241	0.81	1 / 104	18.80	17.46	0.056	34.77	-17.31
	16-QAM	688.00	V	136	241	0.93	1 / 104	18.81	17.59	0.057	34.77	-17.18
15 MHz	$\pi/2$ BPSK	670.50	V	149	243	0.65	1 / 1	20.85	19.35	0.086	34.77	-15.42
	$\pi/2$ BPSK	680.50	V	136	241	0.81	1 / 39	20.22	18.88	0.077	34.77	-15.89
	$\pi/2$ BPSK	690.50	V	136	241	0.97	1 / 39	20.00	18.82	0.076	34.77	-15.95
	QPSK	670.50	V	149	243	0.65	1 / 1	21.11	19.61	0.091	34.77	-15.16
	QPSK	680.50	V	136	241	0.81	1 / 39	19.90	18.56	0.072	34.77	-16.21
	QPSK	690.50	V	136	241	0.97	1 / 39	19.95	18.77	0.075	34.77	-16.00
	16-QAM	670.50	V	149	243	0.65	1 / 1	19.92	18.42	0.069	34.77	-16.35
	16-QAM	680.50	V	136	241	0.81	1 / 39	18.95	17.61	0.058	34.77	-17.16
	16-QAM	690.50	V	136	241	0.97	1 / 39	18.71	17.53	0.057	34.77	-17.24
10 MHz	$\pi/2$ BPSK	668.00	V	149	243	0.61	1 / 50	20.98	19.44	0.088	34.77	-15.33
	$\pi/2$ BPSK	680.50	V	136	241	0.81	1 / 26	20.18	18.84	0.076	34.77	-15.94
	$\pi/2$ BPSK	693.00	V	136	241	1.01	1 / 50	19.93	18.79	0.076	34.77	-15.99
	QPSK	668.00	V	149	243	0.61	1 / 50	20.74	19.20	0.083	34.77	-15.58
	QPSK	680.50	V	136	241	0.81	1 / 26	20.01	18.67	0.074	34.77	-16.11
	QPSK	693.00	V	136	241	1.01	1 / 50	20.03	18.89	0.077	34.77	-15.88
	16-QAM	668.00	V	149	243	0.61	1 / 50	19.74	18.20	0.066	34.77	-16.57
	16-QAM	680.50	V	136	241	0.81	1 / 26	19.25	17.91	0.062	34.77	-16.86
5 MHz	16-QAM	693.00	V	136	241	1.01	1 / 50	18.57	17.43	0.055	34.77	-17.35
	$\pi/2$ BPSK	665.50	V	149	243	0.57	1 / 23	20.93	19.35	0.086	34.77	-15.42
	$\pi/2$ BPSK	680.50	V	136	241	0.81	1 / 23	20.10	18.76	0.075	34.77	-16.01
	$\pi/2$ BPSK	695.50	V	136	241	1.05	1 / 1	20.04	18.94	0.078	34.77	-15.83
	QPSK	665.50	V	149	243	0.57	1 / 23	21.09	19.51	0.089	34.77	-15.26
	QPSK	680.50	V	136	241	0.81	1 / 23	19.90	18.56	0.072	34.77	-16.21
	QPSK	695.50	V	136	241	1.05	1 / 1	20.08	18.98	0.079	34.77	-15.79
	16-QAM	665.50	V	149	243	0.57	1 / 23	20.23	18.64	0.073	34.77	-16.13
	16-QAM	680.50	V	136	241	0.81	1 / 23	19.38	18.04	0.064	34.77	-16.73
	16-QAM	695.50	V	136	241	1.05	1 / 1	18.73	17.63	0.058	34.77	-17.14

Table 7-38. EIRP Data (NR Band n71) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 225 of 272

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
15 MHz	$\pi/2$ BPSK	706.50	V	159	315	1.14	1 / 77	20.94	19.93	0.098	34.77	-14.84
	$\pi/2$ BPSK	707.50	V	153	319	1.14	1 / 77	20.82	19.81	0.096	34.77	-14.96
	$\pi/2$ BPSK	708.50	V	152	317	1.15	1 / 77	20.99	19.99	0.100	34.77	-14.78
	QPSK	706.50	V	159	315	1.14	1 / 77	20.88	19.87	0.097	34.77	-14.90
	QPSK	707.50	V	153	319	1.14	1 / 77	20.97	19.96	0.099	34.77	-14.81
	QPSK	708.50	V	152	317	1.15	1 / 77	20.95	19.95	0.099	34.77	-14.82
10 MHz	16-QAM	707.50	V	153	319	1.14	1 / 77	19.90	18.89	0.078	34.77	-15.88
	$\pi/2$ BPSK	704.00	V	159	315	1.12	1 / 50	21.01	19.98	0.099	34.77	-14.80
	$\pi/2$ BPSK	707.50	V	153	319	1.14	1 / 26	20.96	19.96	0.099	34.77	-14.81
	$\pi/2$ BPSK	711.00	V	152	317	1.17	1 / 1	20.96	19.99	0.100	34.77	-14.78
	QPSK	704.00	V	159	315	1.12	1 / 50	21.19	20.16	0.104	34.77	-14.61
	QPSK	707.50	V	153	319	1.14	1 / 26	21.20	20.20	0.105	34.77	-14.57
5 MHz	QPSK	711.00	V	152	317	1.17	1 / 1	20.75	19.77	0.095	34.77	-15.00
	16-QAM	707.50	V	153	319	1.14	1 / 26	19.93	18.92	0.078	34.77	-15.85
	$\pi/2$ BPSK	701.50	V	159	315	1.10	1 / 1	21.02	19.97	0.099	34.77	-14.81
	$\pi/2$ BPSK	707.50	V	153	319	1.14	1 / 12	21.04	20.04	0.101	34.77	-14.74
	$\pi/2$ BPSK	713.50	V	152	317	1.19	1 / 12	21.00	20.04	0.101	34.77	-14.73
	QPSK	701.50	V	159	315	1.10	1 / 1	20.84	19.79	0.095	34.77	-14.98
15 MHz	QPSK	707.50	V	153	319	1.14	1 / 12	21.13	20.12	0.103	34.77	-14.65
	QPSK	713.50	V	152	317	1.19	1 / 12	20.81	19.85	0.097	34.77	-14.92
	16-QAM	707.50	V	153	319	1.14	1 / 12	19.96	18.95	0.079	34.77	-15.82
	QPSK (CP-OFDM)	708.50	V	149	315	1.15	1 / 77	19.55	18.55	0.072	34.77	-16.22
15 MHz	QPSK (Opposite Pol.)	708.50	H	284	236	1.16	1 / 77	19.55	18.56	0.072	34.77	-16.21
	QPSK (WCP)	708.50	V	146	176	1.15	1 / 39	14.64	13.64	0.023	34.77	-21.13

Table 7-39. EIRP Data (NR Band n12) – Ant2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.00	H	316	345	2.88	1 / 0	17.30	20.18	0.104	30.00	-9.82
	QPSK	1745.00	H	310	345	2.84	1 / 50	16.60	19.44	0.088	30.00	-10.56
	QPSK	1770.00	H	309	343	2.79	1 / 0	15.92	18.71	0.074	30.00	-11.29
	16-QAM	1720.00	H	316	345	2.88	1 / 0	16.70	19.58	0.091	30.00	-10.42
15 MHz	QPSK	1717.50	H	316	345	2.88	1 / 50	17.77	20.65	0.116	30.00	-9.35
	QPSK	1745.00	H	310	345	2.84	1 / 50	17.21	20.06	0.101	30.00	-9.94
	QPSK	1772.50	H	309	343	2.78	1 / 50	15.79	18.57	0.072	30.00	-11.43
	16-QAM	1717.50	H	316	345	2.88	1 / 50	17.26	20.14	0.103	30.00	-9.86
10 MHz	QPSK	1715.00	H	316	345	2.88	1 / 37	17.74	20.62	0.115	30.00	-9.38
	QPSK	1745.00	H	310	345	2.84	1 / 37	17.12	19.97	0.099	30.00	-10.03
	QPSK	1775.00	H	309	343	2.78	1 / 0	15.73	18.51	0.071	30.00	-11.49
	16-QAM	1715.00	H	316	345	2.88	1 / 37	17.02	19.91	0.098	30.00	-10.09
5 MHz	QPSK	1712.50	H	316	345	2.89	1 / 25	17.73	20.62	0.115	30.00	-9.38
	QPSK	1745.00	H	310	345	2.84	1 / 49	17.08	19.93	0.098	30.00	-10.07
	QPSK	1777.50	H	309	343	2.77	1 / 0	15.82	18.59	0.072	30.00	-11.41
	16-QAM	1712.50	H	316	345	2.89	1 / 0	17.06	19.95	0.099	30.00	-10.05
3 MHz	QPSK	1711.50	H	316	345	2.89	1 / 24	17.81	20.70	0.117	30.00	-9.30
	QPSK	1745.00	H	310	345	2.84	1 / 12	17.13	19.97	0.099	30.00	-10.03
	QPSK	1778.50	H	309	343	2.77	1 / 0	15.75	18.51	0.071	30.00	-11.49
	16-QAM	1711.50	H	316	345	2.89	1 / 0	17.04	19.93	0.098	30.00	-10.07
1.4 MHz	QPSK	1710.70	H	316	345	2.89	1 / 7	17.72	20.61	0.115	30.00	-9.39
	QPSK	1745.00	H	310	345	2.84	1 / 7	17.01	19.85	0.097	30.00	-10.15
	QPSK	1779.30	H	309	343	2.77	1 / 7	15.63	18.40	0.069	30.00	-11.60
	16-QAM	1710.70	H	316	345	2.89	1 / 0	16.89	19.78	0.095	30.00	-10.22
20 MHz	Opposite Pol.	1720.00	V	127	315	2.90	1 / 0	17.09	19.99	0.100	30.00	-10.01
	WCP	1720.00	H	146	303	2.88	1 / 0	17.82	20.70	0.117	30.00	-9.30

Table 7-40. EIRP Data (LTE Band 66/4) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 226 of 272

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
15 MHz	$\pi/2$ BPSK	1702.50	H	149	307	3.17	1 / 39	17.12	20.29	0.107	30.00	-9.71
	QPSK	1702.50	H	149	307	3.17	1 / 39	17.00	20.17	0.104	30.00	-9.83
	16-QAM	1702.50	H	149	307	3.17	1 / 39	16.16	19.33	0.086	30.00	-10.67
10 MHz	$\pi/2$ BPSK	1700.00	H	149	307	3.19	1 / 50	17.08	20.27	0.106	30.00	-9.73
	$\pi/2$ BPSK	1702.50	H	149	307	3.17	1 / 50	17.28	20.45	0.111	30.00	-9.55
	$\pi/2$ BPSK	1705.00	H	149	307	3.15	1 / 50	17.29	20.44	0.111	30.00	-9.56
	QPSK	1700.00	H	149	307	3.19	1 / 50	16.96	20.15	0.103	30.00	-9.85
	QPSK	1702.50	H	149	307	3.17	1 / 50	16.92	20.09	0.102	30.00	-9.91
	QPSK	1705.00	H	149	307	3.15	1 / 50	17.35	20.50	0.112	30.00	-9.50
	16-QAM	1705.00	H	149	307	3.15	1 / 50	16.27	19.43	0.088	30.00	-10.57
5 MHz	$\pi/2$ BPSK	1697.50	H	149	307	3.18	1 / 12	16.91	20.09	0.102	30.00	-9.91
	$\pi/2$ BPSK	1702.50	H	149	307	3.17	1 / 12	17.21	20.38	0.109	30.00	-9.62
	$\pi/2$ BPSK	1707.50	H	149	307	3.13	1 / 23	17.45	20.58	0.114	30.00	-9.42
	QPSK	1697.50	H	149	307	3.18	1 / 12	16.74	19.92	0.098	30.00	-10.08
	QPSK	1702.50	H	149	307	3.17	1 / 12	16.85	20.02	0.101	30.00	-9.98
	QPSK	1707.50	H	149	307	3.13	1 / 23	17.17	20.30	0.107	30.00	-9.70
15 MHz	16-QAM	1707.50	H	149	307	3.13	1 / 23	16.36	19.49	0.089	30.00	-10.51
	QPSK (CP-OFDM)	1702.50	H	149	307	3.17	1 / 39	15.98	19.15	0.082	30.00	-10.85
	QPSK (Opposite Pol.)	1702.50	V	222	104	3.17	1 / 39	16.51	19.68	0.093	30.00	-10.32
	QPSK (WCP)	1702.50	H	105	222	3.17	1 / 39	16.17	19.34	0.086	30.00	-10.66

Table 7-41. EIRP Data (NR Band n70) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 227 of 272

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]
45 MHz	$\pi/2$ BPSK	1732.50	H	198	288	3.00	1 / 1	15.51	18.52	0.071	30.00	-11.48
	$\pi/2$ BPSK	1745.00	H	198	301	2.86	1 / 1	15.85	18.71	0.074	30.00	-11.29
	$\pi/2$ BPSK	1757.50	H	198	296	2.73	1 / 1	15.38	18.10	0.065	30.00	-11.90
	QPSK	1732.50	H	198	288	3.00	1 / 1	15.34	18.35	0.068	30.00	-11.65
	QPSK	1745.00	H	198	301	2.86	1 / 1	15.90	18.75	0.075	30.00	-11.25
	QPSK	1757.50	H	198	296	2.73	1 / 1	15.23	17.96	0.063	30.00	-12.04
40 MHz	16-QAM	1745.00	H	198	301	2.86	1 / 1	14.76	17.62	0.058	30.00	-12.38
	$\pi/2$ BPSK	1730.00	H	198	288	2.97	1 / 1	15.81	18.78	0.075	30.00	-11.22
	$\pi/2$ BPSK	1745.00	H	198	301	2.86	1 / 1	15.87	18.73	0.075	30.00	-11.27
	$\pi/2$ BPSK	1760.00	H	198	296	2.76	1 / 1	15.61	18.37	0.069	30.00	-11.63
	QPSK	1730.00	H	198	288	2.97	1 / 1	15.72	18.69	0.074	30.00	-11.31
	QPSK	1745.00	H	198	301	2.86	1 / 1	15.92	18.78	0.075	30.00	-11.22
35 MHz	QPSK	1760.00	H	198	296	2.76	1 / 1	15.49	18.25	0.067	30.00	-11.75
	16-QAM	1745.00	H	198	301	2.86	1 / 1	14.80	17.66	0.058	30.00	-12.34
	$\pi/2$ BPSK	1727.50	H	198	288	3.00	1 / 1	15.73	18.74	0.075	30.00	-11.26
	$\pi/2$ BPSK	1745.00	H	198	301	2.86	1 / 1	15.99	18.84	0.077	30.00	-11.16
	$\pi/2$ BPSK	1762.50	H	198	296	2.73	1 / 1	15.63	18.36	0.068	30.00	-11.64
	QPSK	1727.50	H	198	288	3.00	1 / 1	15.49	18.49	0.071	30.00	-11.51
30 MHz	QPSK	1745.00	H	198	301	2.86	1 / 1	15.89	18.74	0.075	30.00	-11.26
	QPSK	1762.50	H	198	296	2.73	1 / 1	15.50	18.23	0.067	30.00	-11.77
	16-QAM	1745.00	H	198	301	2.86	1 / 1	14.57	17.42	0.055	30.00	-12.58
	$\pi/2$ BPSK	1725.00	H	198	288	3.00	1 / 80	15.68	18.68	0.074	30.00	-11.32
	$\pi/2$ BPSK	1745.00	H	198	301	2.86	1 / 80	15.95	18.81	0.076	30.00	-11.19
	$\pi/2$ BPSK	1765.00	H	198	296	2.73	1 / 80	15.48	18.21	0.066	30.00	-11.79
25 MHz	QPSK	1725.00	H	198	288	3.00	1 / 80	15.33	18.33	0.068	30.00	-11.67
	QPSK	1745.00	H	198	301	2.86	1 / 80	15.90	18.76	0.075	30.00	-11.24
	QPSK	1765.00	H	198	296	2.73	1 / 80	15.48	18.21	0.066	30.00	-11.79
	16-QAM	1745.00	H	198	301	2.86	1 / 80	14.69	17.54	0.057	30.00	-12.46
	$\pi/2$ BPSK	1722.50	H	198	296	3.02	1 / 66	15.76	18.78	0.075	30.00	-11.22
	$\pi/2$ BPSK	1745.00	H	198	296	2.86	1 / 1	15.88	18.73	0.075	30.00	-11.27
20 MHz	$\pi/2$ BPSK	1767.50	H	198	296	2.71	1 / 1	15.46	18.18	0.066	30.00	-11.82
	QPSK	1722.50	H	198	296	3.02	1 / 66	15.45	18.47	0.070	30.00	-11.53
	QPSK	1745.00	H	198	296	2.86	1 / 1	16.03	18.89	0.077	30.00	-11.11
	QPSK	1767.50	H	198	296	2.71	1 / 1	15.52	18.23	0.067	30.00	-11.77
	16-QAM	1722.50	H	198	296	3.02	1 / 66	14.39	17.41	0.055	30.00	-12.59
	$\pi/2$ BPSK	1720.00	H	198	288	3.04	1 / 1	15.53	18.57	0.072	30.00	-11.43
15 MHz	$\pi/2$ BPSK	1745.00	H	198	301	2.86	1 / 1	15.79	18.65	0.073	30.00	-11.35
	$\pi/2$ BPSK	1770.00	H	198	296	2.70	1 / 53	15.46	18.16	0.065	30.00	-11.84
	QPSK	1720.00	H	198	288	3.04	1 / 1	15.16	18.20	0.066	30.00	-11.80
	QPSK	1745.00	H	198	301	2.86	1 / 1	15.63	18.48	0.070	30.00	-11.52
	QPSK	1770.00	H	198	296	2.70	1 / 53	15.10	17.80	0.060	30.00	-12.20
	16-QAM	1770.00	H	198	296	2.70	1 / 53	14.41	17.11	0.051	30.00	-12.89
10 MHz	$\pi/2$ BPSK	1717.50	H	198	288	3.06	1 / 1	15.66	18.71	0.074	30.00	-11.29
	$\pi/2$ BPSK	1745.00	H	198	301	2.86	1 / 1	15.88	18.74	0.075	30.00	-11.26
	$\pi/2$ BPSK	1772.50	H	198	296	2.69	1 / 1	15.51	18.19	0.066	30.00	-11.81
	QPSK	1717.50	H	198	288	3.06	1 / 1	15.28	18.34	0.068	30.00	-11.66
	QPSK	1745.00	H	198	301	2.86	1 / 1	16.01	18.87	0.077	30.00	-11.13
	QPSK	1772.50	H	198	296	2.69	1 / 1	15.34	18.03	0.063	30.00	-11.97
5 MHz	16-QAM	1772.50	H	198	296	2.69	1 / 1	14.57	17.25	0.053	30.00	-12.75
	$\pi/2$ BPSK	1715.00	H	198	288	3.08	1 / 50	15.42	18.50	0.071	30.00	-11.50
	$\pi/2$ BPSK	1745.00	H	198	301	2.86	1 / 50	15.64	18.50	0.071	30.00	-11.50
	$\pi/2$ BPSK	1775.00	H	198	296	2.67	1 / 1	15.41	18.08	0.064	30.00	-11.92
	QPSK	1715.00	H	198	288	3.08	1 / 50	15.31	18.38	0.069	30.00	-11.62
	QPSK	1745.00	H	198	301	2.86	1 / 50	15.47	18.33	0.068	30.00	-11.67
45 MHz	QPSK	1775.00	H	198	296	2.67	1 / 1	15.29	17.96	0.062	30.00	-12.04
	16-QAM	1715.00	H	198	288	3.08	1 / 50	14.05	17.13	0.052	30.00	-12.87
	$\pi/2$ BPSK	1712.50	H	198	288	3.09	1 / 12	15.42	18.52	0.071	30.00	-11.48
	$\pi/2$ BPSK	1745.00	H	198	301	2.86	1 / 12	15.80	18.65	0.073	30.00	-11.35
	$\pi/2$ BPSK	1777.50	H	198	296	2.66	1 / 12	15.43	18.08	0.064	30.00	-11.92
	QPSK	1712.50	H	198	288	3.09	1 / 12	15.24	18.33	0.068	30.00	-11.67
45 MHz	QPSK	1745.00	H	198	301	2.86	1 / 12	15.73	18.59	0.072	30.00	-11.41
	QPSK	1777.50	H	198	296	2.66	1 / 12	15.42	18.08	0.064	30.00	-11.92
	16-QAM	1712.50	H	198	288	3.09	1 / 12	14.24	17.34	0.054	30.00	-12.66
45 MHz	QPSK (CP-OFDM)	1745.00	H	143	303	2.97	1 / 1	15.27	18.24	0.067	30.00	-11.76
	QPSK (Opposite Pol.)	1745.00	V	224	109	2.97	1 / 1	15.85	18.82	0.076	30.00	-11.18
	QPSK (WCP)	1745.00	H	108	222	2.97	1 / 1	15.29	18.26	0.067	30.00	-11.74

Table 7-42. EIRP Data (NR Band n66) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 228 of 272

7.8 Radiated Spurious Emissions Measurements

Test Overview

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

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

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

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 229 of 272

Test Setup

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

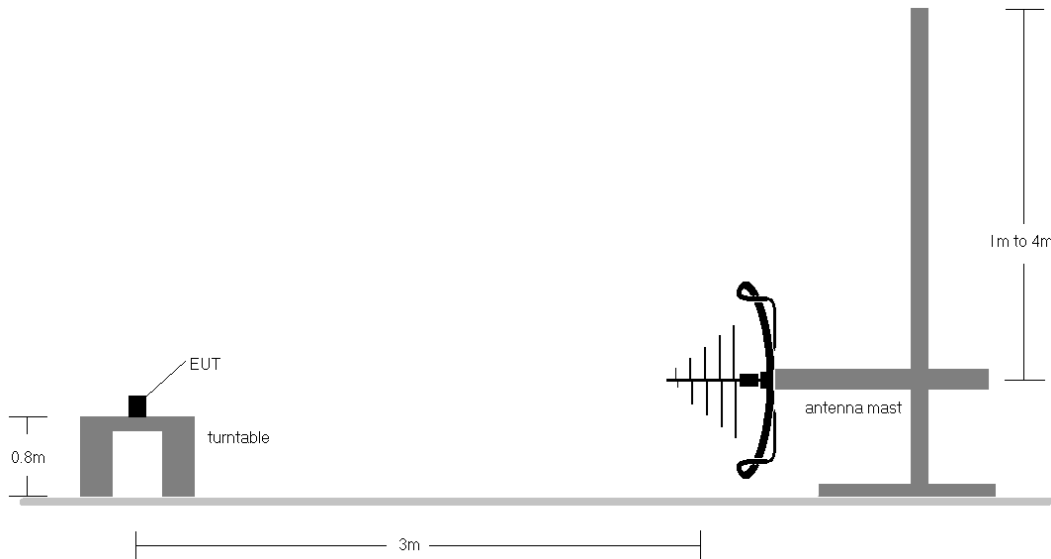


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

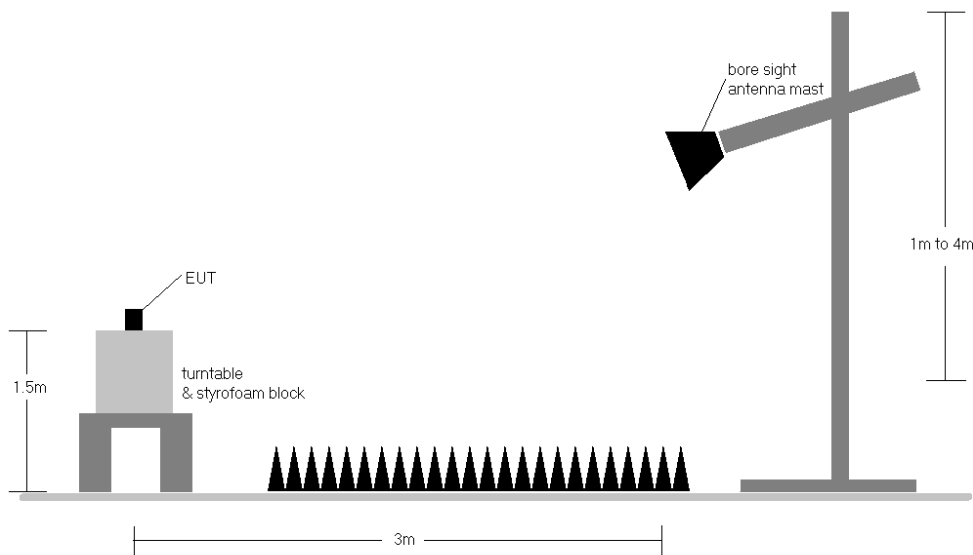


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

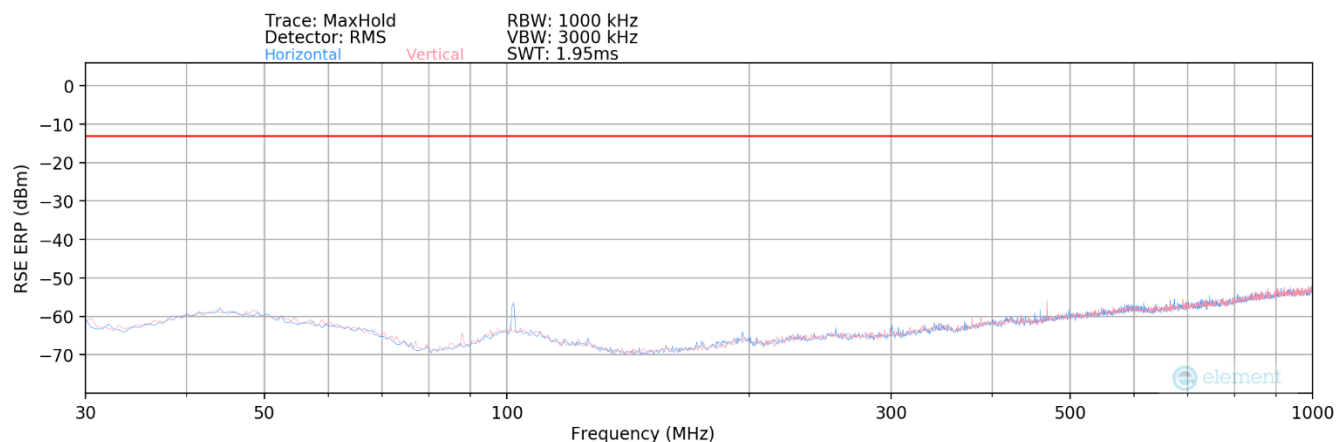
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 230 of 272

Test Notes

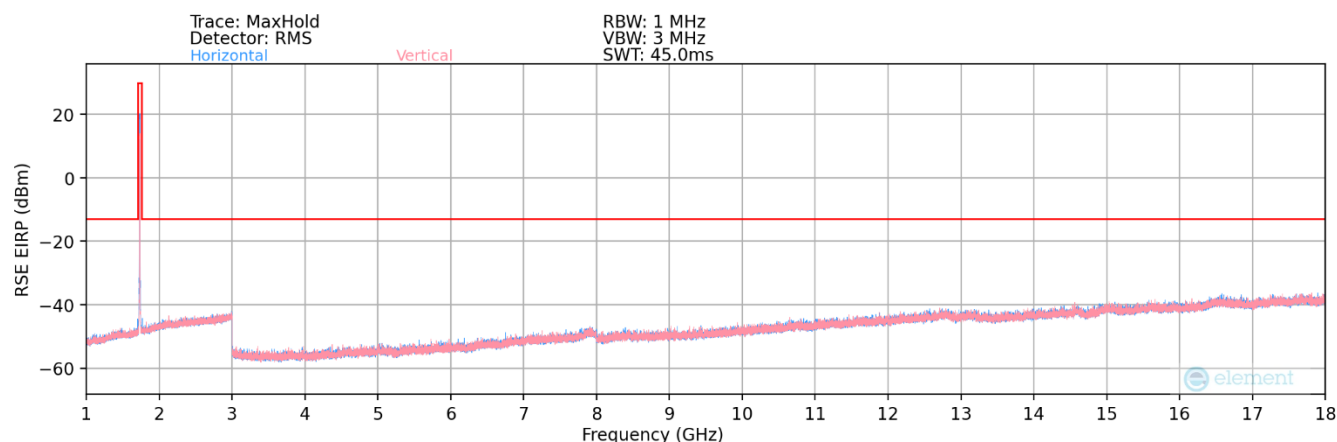
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) 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 emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 231 of 272

WCDMA AWS – Ant1



Plot 7-320. Radiated Spurious Plot (WCDMA AWS) – Ant1



Plot 7-321. Radiated Spurious Plot (WCDMA AWS) – Ant1

Mode:	Stand Alone
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]
101.00	H	349	255	-78.40	-13.52	15.08	-82.33	-13.00	-69.33

Table 7-43. Radiated Spurious Data (WCDMA AWS – Mid Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 232 of 272

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	V	-	-	-78.82	4.62	32.80	-62.46	-13.00	-49.46
5137.20	V	-	-	-79.41	7.28	34.87	-60.39	-13.00	-47.39
6849.60	V	-	-	-80.73	10.90	37.17	-58.08	-13.00	-45.08

7-44. Radiated Spurious Data (WCDMA AWS – Low Channel) – Ant1

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	V	-	-	-78.73	4.39	32.66	-62.60	-13.00	-49.60
5197.80	V	-	-	-79.58	7.32	34.74	-60.51	-13.00	-47.51
6930.40	V	-	-	-80.49	11.59	38.10	-57.16	-13.00	-44.16

Table 7-45. Radiated Spurious Data (WCDMA AWS – Mid Channel) – Ant1

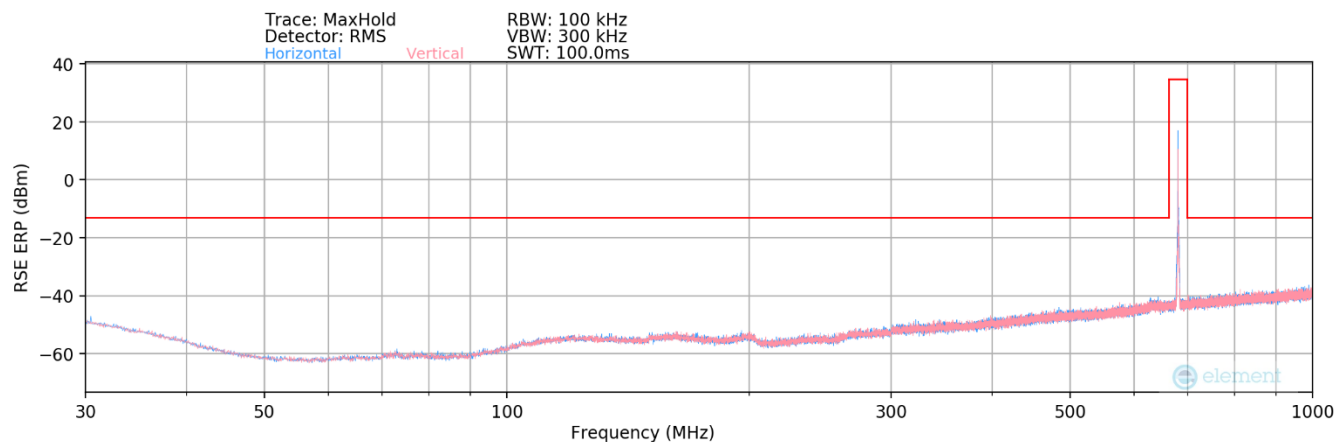
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.20	V	-	-	-78.97	4.41	32.44	-62.82	-13.00	-49.82
5257.80	V	-	-	-79.35	7.52	35.17	-60.09	-13.00	-47.09
7010.40	V	-	-	-80.28	11.54	38.26	-57.00	-13.00	-44.00

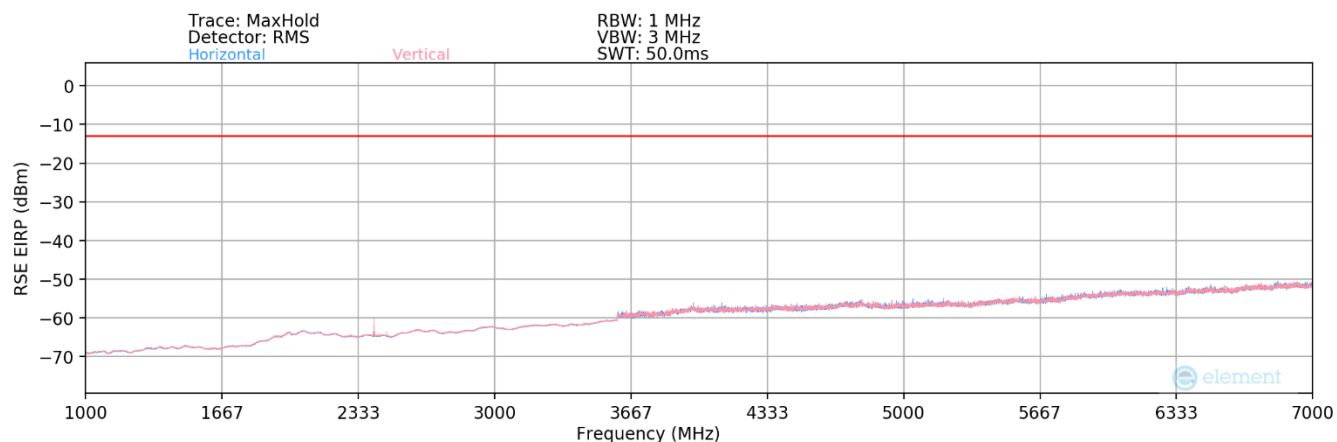
Table 7-46. Radiated Spurious Data (WCDMA AWS – High Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 233 of 272

LTE Band 71 – Ant1



Plot 7-322. Radiated Spurious Plot (LTE Band 71) – Ant1



Plot 7-323. Radiated Spurious Plot (LTE Band 71) – Ant1

Mode:	Stand Alone
Frequency (MHz):	1361

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]
200.00	H	256	73	-81.87	-13.60	11.53	-85.88	-13.00	-72.88

Table 7-47. Radiated Spurious Data (LTE Band 71) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 234 of 272

Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	H	158	328	-64.80	-6.97	35.23	-60.03	-13.00	-47.03
2019.00	H	163	340	-67.57	-3.20	36.23	-59.03	-13.00	-46.03
2692.00	H	-	-	-77.53	-2.41	27.06	-68.20	-13.00	-55.20
3365.00	H	326	239	-75.49	-1.11	30.40	-64.86	-13.00	-51.86
4038.00	H	-	-	-78.91	1.86	29.95	-65.31	-13.00	-52.31
4711.00	H	-	-	-78.64	3.08	31.44	-63.82	-13.00	-50.82
5384.00	H	-	-	-79.28	3.75	31.47	-63.79	-13.00	-50.79

Table 7-48. Radiated Spurious Data (LTE Band 71 – Low Channel) – Ant1

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	H	154	325	-64.50	-6.95	35.55	-59.71	-13.00	-46.71
2041.50	H	154	330	-66.78	-2.75	37.47	-57.79	-13.00	-44.79
2722.00	H	-	-	-77.65	-2.85	26.50	-68.75	-13.00	-55.75
3402.50	H	318	235	-75.46	-1.03	30.51	-64.75	-13.00	-51.75
4083.00	H	-	-	-79.14	1.82	29.68	-65.58	-13.00	-52.58
4763.50	H	-	-	-79.25	3.20	30.95	-64.31	-13.00	-51.31
5444.00	H	-	-	-79.17	4.22	32.05	-63.21	-13.00	-50.21

Table 7-49. Radiated Spurious Data (LTE Band 71 – Mid Channel) – Ant1

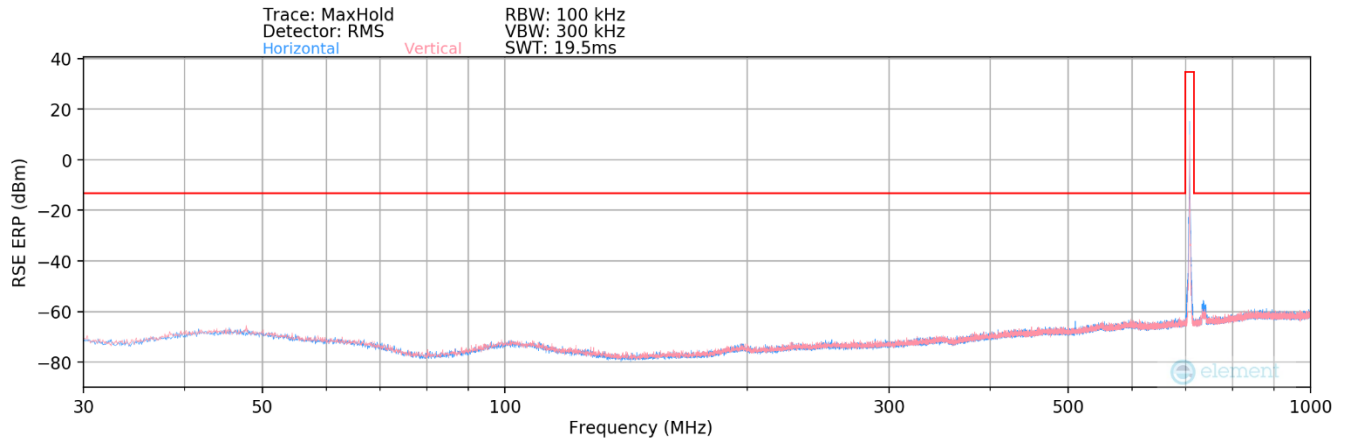
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	H	161	226	-66.86	-6.96	33.18	-62.08	-13.00	-49.08
2064.00	H	162	228	-64.71	-2.63	39.66	-55.60	-13.00	-42.60
2752.00	H	-	-	-77.93	-2.95	26.12	-69.13	-13.00	-56.13
3440.00	H	347	181	-76.29	-0.96	29.75	-65.51	-13.00	-52.51
4128.00	H	-	-	-78.25	1.70	30.45	-64.80	-13.00	-51.80
4816.00	H	-	-	-79.29	2.95	30.66	-64.60	-13.00	-51.60
5504.00	H	-	-	-79.22	4.18	31.96	-63.30	-13.00	-50.30

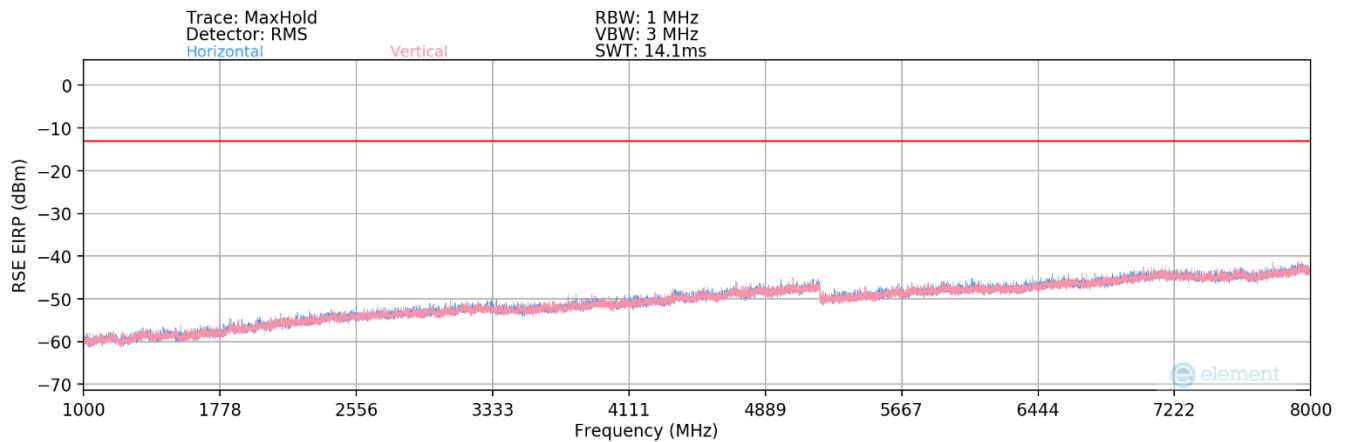
Table 7-50. Radiated Spurious Data (LTE Band 71 – High Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 235 of 272

LTE Band 12 – Ant1



Plot 7-324. Radiated Spurious Plot (LTE Band 12) – Ant1



Plot 7-325. Radiated Spurious Plot (LTE Band 12) – Ant1

Mode:	Stand Alone
Frequency (MHz):	707.5

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]
504.00	V	396	292	-80.74	25.70	51.96	-45.45	-13.00	-32.45

Table 7-51. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager	
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset			Page 236 of 272	

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	-	-	-77.78	-1.67	27.55	-67.71	-13.00	-54.71
2112.00	H	-	-	-79.30	2.81	30.51	-64.75	-13.00	-51.75
2816.00	H	-	-	-79.63	5.06	32.43	-62.83	-13.00	-49.83

Table 7-52. Radiated Spurious Data (LTE Band 12 – Low Channel) – Ant1

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	-	-	-77.64	-1.67	27.69	-67.56	-13.00	-54.56
2122.50	H	-	-	-79.12	2.79	30.67	-64.59	-13.00	-51.59
2830.00	H	-	-	-79.80	5.21	32.41	-62.85	-13.00	-49.85

Table 7-53. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Ant1

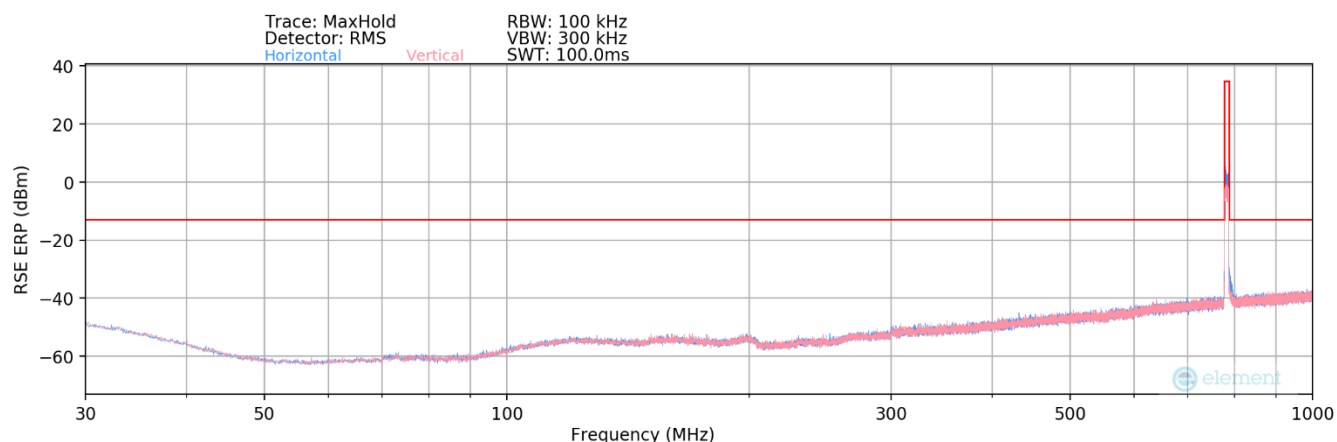
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.00	H	-	-	-78.11	-1.45	27.44	-67.81	-13.00	-54.81
2133.00	H	-	-	-80.09	2.68	29.59	-65.67	-13.00	-52.67
2844.00	H	-	-	-79.81	5.02	32.21	-63.05	-13.00	-50.05

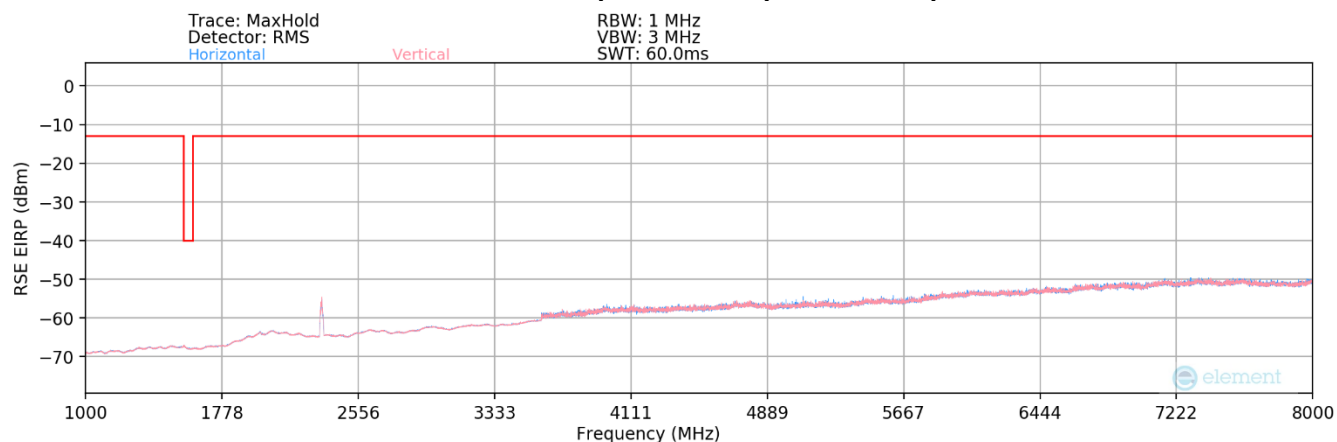
Table 7-54. Radiated Spurious Data (LTE Band 12 – High Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 237 of 272

LTE Band 13 – Ant1



Plot 7-326. Radiated Spurious Plot (LTE Band 13) – Ant1



Plot 7-327. Radiated Spurious Plot (LTE Band 13) – Ant1

Mode:	Stand Alone
Frequency (MHz):	782

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]
193.59	H	396	233	-84.57	19.18	41.61	-55.80	-13.00	-42.80

Table 7-55. Radiated Spurious Data (LTE Band 13) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 238 of 272

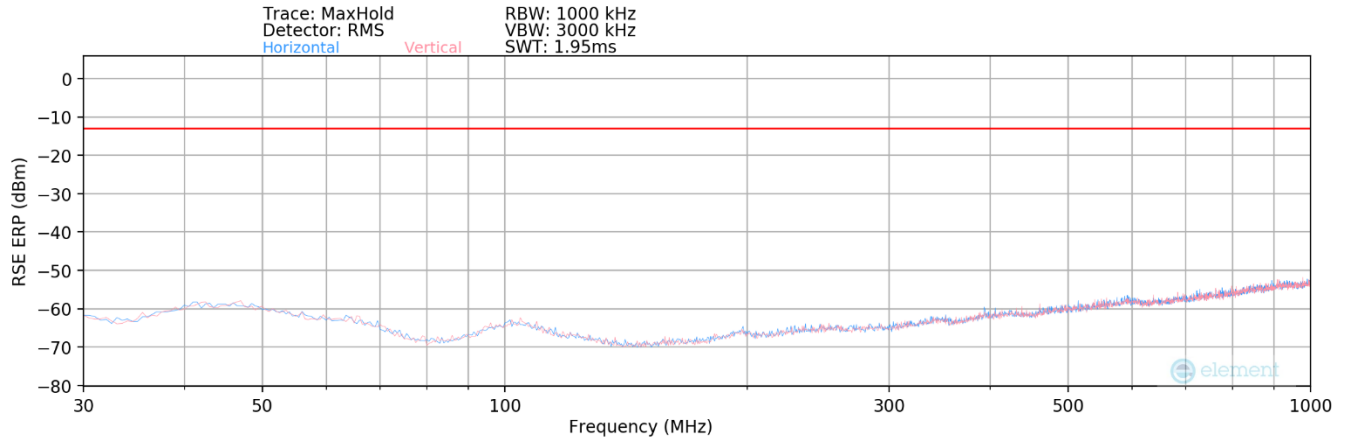
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

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	165	333	-69.34	-6.90	30.76	-64.49	-40.00	-24.49
2346.00	H	187	315	-51.91	-3.81	51.28	-43.98	-13.00	-30.98
3128.00	H	-	-	-76.87	-1.71	28.42	-66.84	-13.00	-53.84
3910.00	H	302	241	-75.19	1.51	33.32	-61.94	-13.00	-48.94
4692.00	H	-	-	-78.32	3.01	31.69	-63.56	-13.00	-50.56
5474.00	H	-	-	-78.65	4.42	32.77	-62.48	-13.00	-49.48
6256.00	H	-	-	-78.65	6.63	34.98	-60.28	-13.00	-47.28

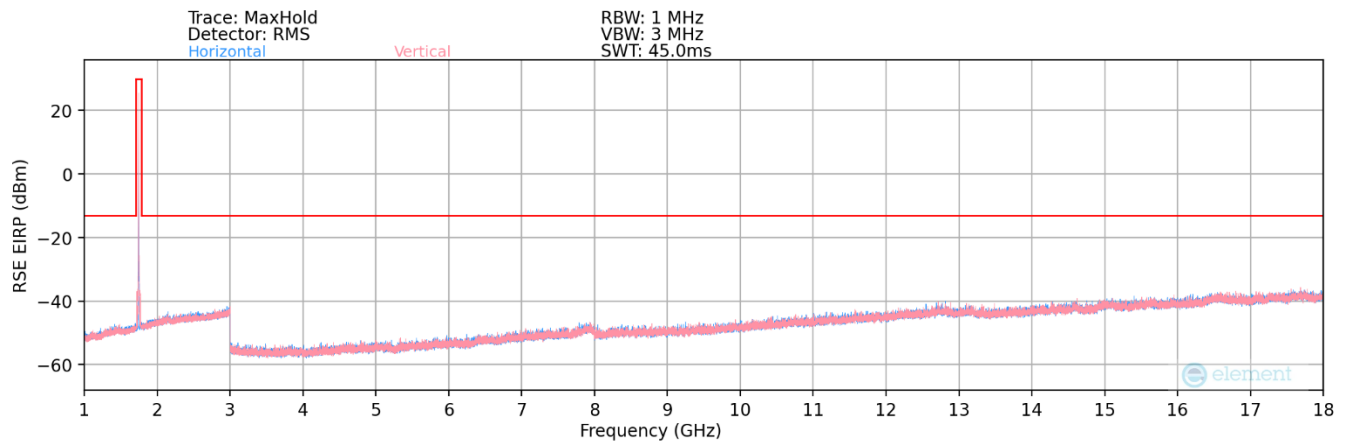
Table 7-56. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 239 of 272

LTE Band 66/4 – Ant1



Plot 7-328. Radiated Spurious Plot (LTE Band 66/4) – Ant1



Plot 7-329. Radiated Spurious Plot (LTE Band 66/4) – Ant1

Mode:	Stand Alone
Frequency (MHz):	1361

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]
100.00	H	400	110	-78.38	-13.64	14.98	-82.43	-13.00	-69.43

Table 7-57. Radiated Spurious Data (LTE Band 66/4) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 240 of 272

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	H	-	-	-78.74	5.27	33.53	-61.73	-13.00	-48.73
5160.00	H	-	-	-79.66	7.54	34.88	-60.38	-13.00	-47.38
6880.00	H	-	-	-80.51	11.63	38.12	-57.13	-13.00	-44.13

Table 7-58. Radiated Spurious Data (LTE Band 66/4 – Low Channel) – Ant1

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	-	-	-78.78	5.31	33.53	-61.72	-13.00	-48.72
5235.00	H	-	-	-79.38	7.26	34.88	-60.38	-13.00	-47.38
6980.00	H	-	-	-80.19	11.06	37.87	-57.38	-13.00	-44.38

Table 7-59. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant1

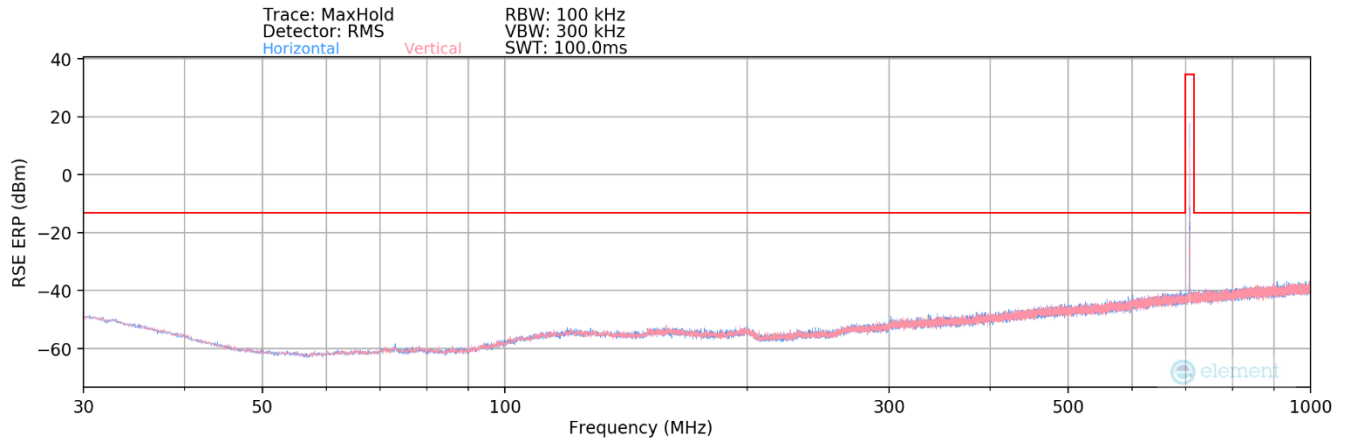
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	H	-	-	-78.48	5.24	33.76	-61.50	-13.00	-48.50
5310.00	H	-	-	-79.37	7.65	35.28	-59.98	-13.00	-46.98
7080.00	H	-	-	-80.27	11.66	38.39	-56.87	-13.00	-43.87

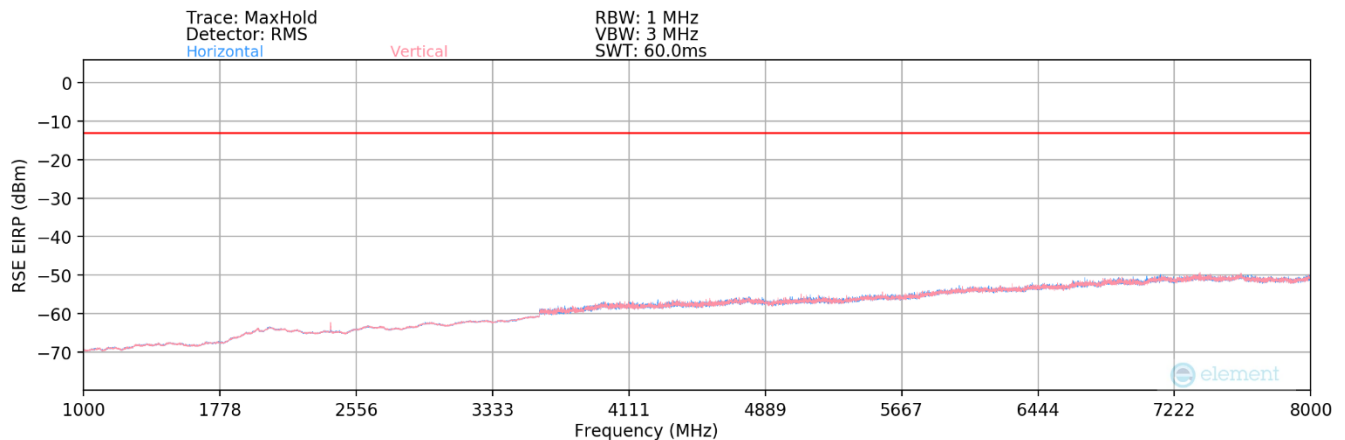
Table 7-60. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 241 of 272

NR Band n12 – Ant1



Plot 7-330. Radiated Spurious Plot (NR Band n12) – Ant1



Plot 7-331. Radiated Spurious Plot (NR Band n12) – Ant1

Mode:	Stand Alone
Frequency (MHz):	707.5

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]
145.73	V	-	-	-83.15	19.00	42.85	-54.56	-13.00	-41.56

Table 7-61. Radiated Spurious Data (NR Band n12) – Ant1

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.00	V	-	-	-76.86	-6.96	23.18	-72.08	-13.00	-59.08
2119.50	V	-	-	-77.81	-2.84	26.35	-68.91	-13.00	-55.91
2826.00	V	-	-	-78.38	-2.72	25.90	-69.36	-13.00	-56.36

Table 7-62. Radiated Spurious Data (NR Band n12 – Low Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager	
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 242 of 272	

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	V	-	-	-76.90	-6.96	23.14	-72.11	-13.00	-59.11
2122.50	V	-	-	-77.63	-2.87	26.50	-68.75	-13.00	-55.75
2830.00	V	-	-	-78.20	-2.68	26.12	-69.14	-13.00	-56.14

Table 7-63. Radiated Spurious Data (NR Band n12 – Mid Channel) – Ant1

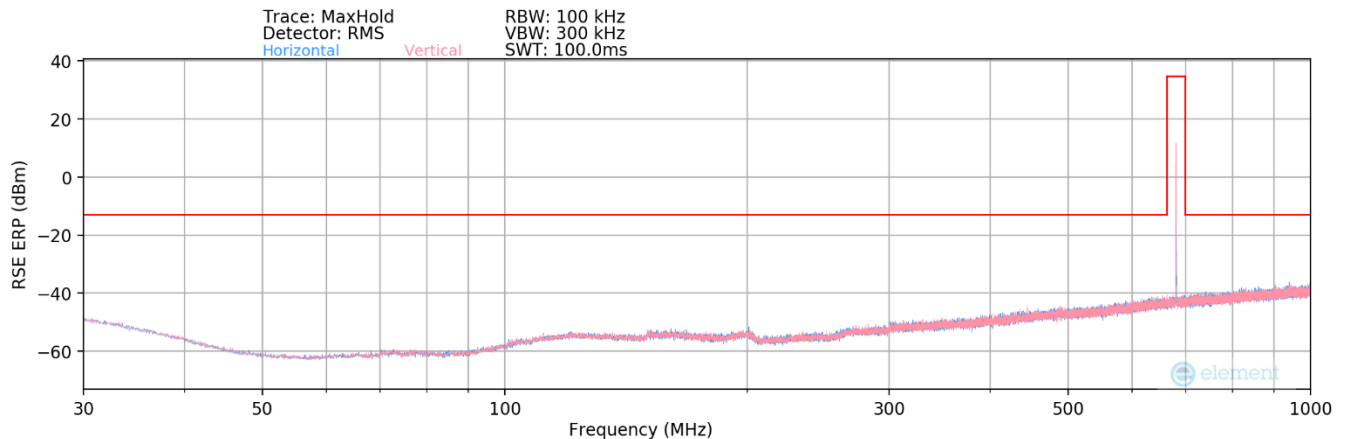
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 39

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.00	V	-	-	-76.88	-6.95	23.17	-72.09	-13.00	-59.09
2125.50	V	-	-	-77.61	-2.89	26.50	-68.76	-13.00	-55.76
2834.00	V	-	-	-78.07	-2.64	26.29	-68.97	-13.00	-55.97

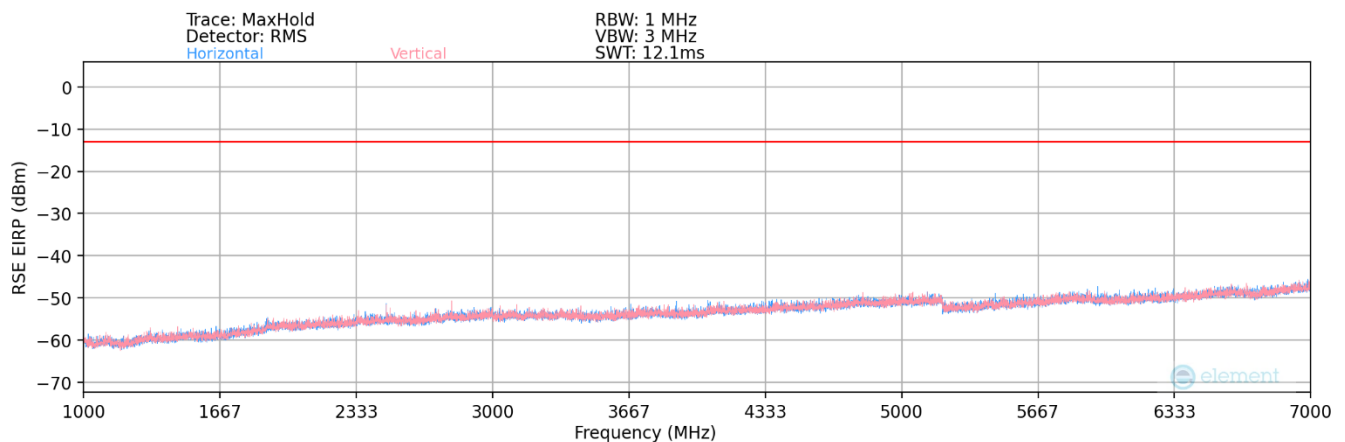
Table 7-64. Radiated Spurious Data (NR Band n12 – High Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 243 of 272

NR Band n71 – Ant1



Plot 7-332. Radiated Spurious Plot (NR Band n71) – Ant1



Plot 7-333. Radiated Spurious Plot (NR Band n71) – Ant1

Mode:	Stand Alone
Frequency (MHz):	680.5

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]
142.12	H	-	-	-82.70	19.91	44.21	-53.20	-13.00	-40.20

Table 7-65. Radiated Spurious Data (NR Band n71) – Ant1

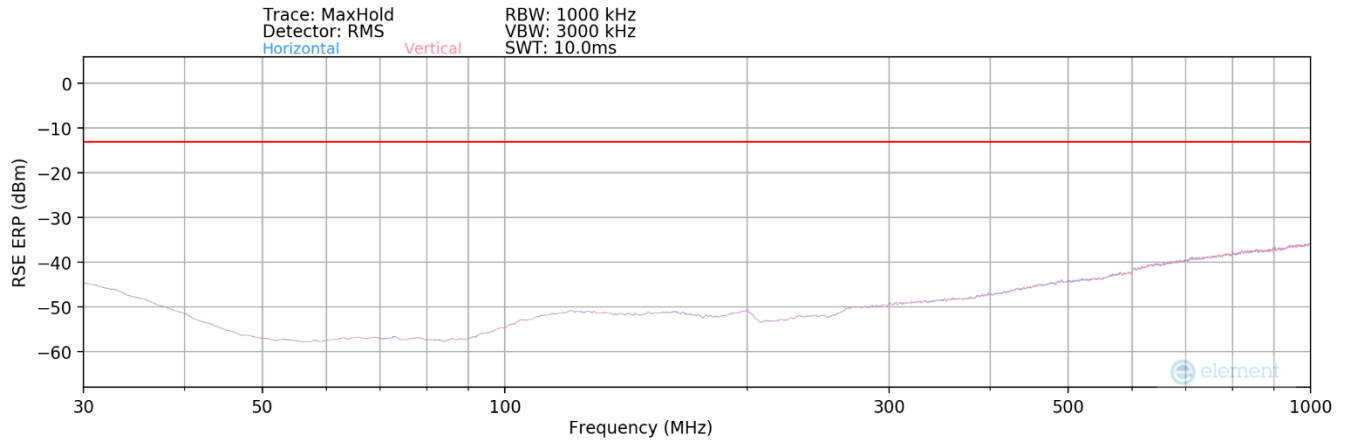
Bandwidth (MHz):	35
Frequency (MHz):	680.5
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	H	-	-	-76.45	-2.35	28.20	-67.06	-13.00	-54.06
2041.50	H	-	-	-77.28	1.05	30.77	-64.49	-13.00	-51.49
2722.00	H	-	-	-78.46	3.42	31.96	-63.29	-13.00	-50.29

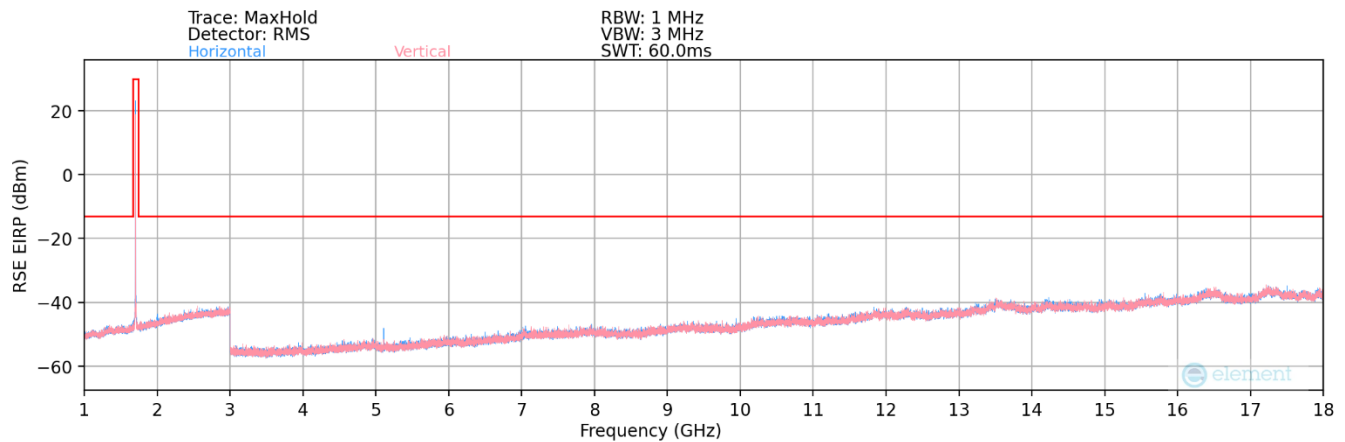
Table 7-66. Radiated Spurious Data (NR Band n71 – Mid Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 244 of 272

NR Band n70 – Ant1



Plot 7-334. Radiated Spurious Plot (NR Band n70) – Ant1



Plot 7-335. Radiated Spurious Plot (NR Band n70) – Ant1

Mode:	Stand Alone
Frequency (MHz):	1702.5

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]
145.35	H	-	-	-84.23	19.87	42.64	-54.77	-13.00	-41.77

Table 7-67. Radiated Spurious Data (NR Band n70) – Ant1

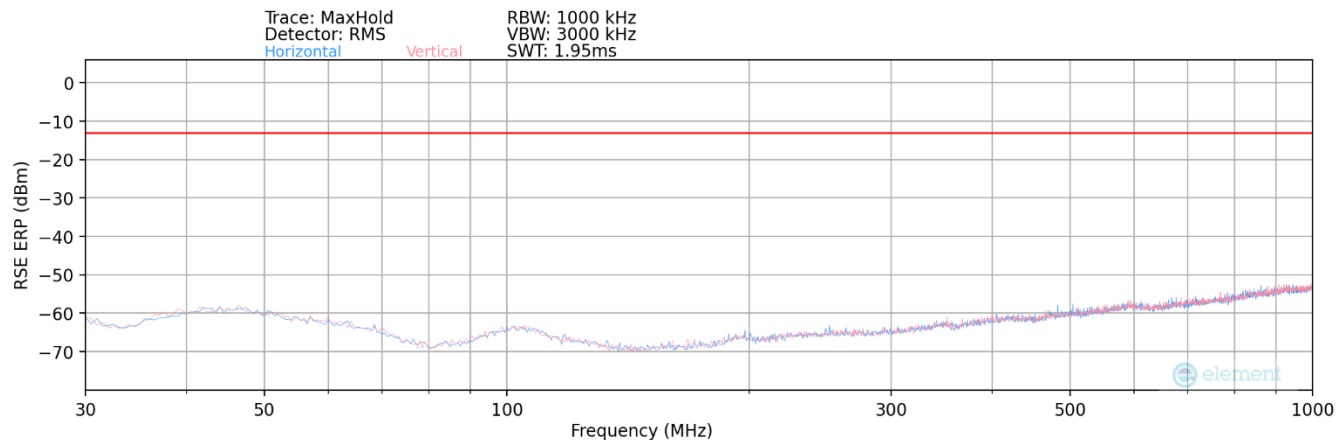
Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 39

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.00	H	-	-	-78.55	-1.03	27.42	-67.84	-13.00	-54.84
5107.50	H	-	-	-79.64	3.42	30.78	-64.47	-13.00	-51.47
6810.00	H	-	-	-80.33	8.05	34.72	-60.53	-13.00	-47.53

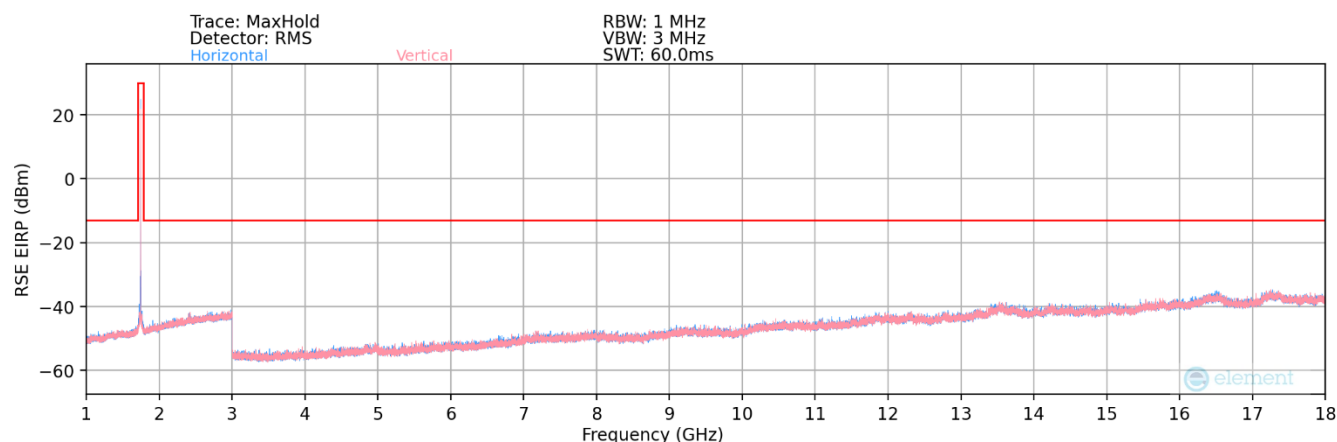
Table 7-68. Radiated Spurious Data (NR Band n70 – Mid Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 245 of 272

NR Band n66 – Ant1



Plot 7-336. Radiated Spurious Plot (NR Band n66) – Ant1



Plot 7-337. Radiated Spurious Plot (NR Band n66) – Ant1

Mode:	Stand Alone
Frequency (MHz):	1745

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]
90.32	V	400	20	-83.99	14.71	37.72	-59.69	-13.00	-46.69

Table 7-69. Radiated Spurious Data (NR Band n66) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager	
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset			Page 246 of 272	

Bandwidth (MHz):	45
Frequency (MHz):	1732.5
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]
3465.00	V	-	-	-78.09	0.10	29.01	-66.25	-13.00	-53.25
5197.50	V	-	-	-79.59	3.55	30.96	-64.30	-13.00	-51.30
6930.00	V	-	-	-81.02	8.60	34.58	-60.67	-13.00	-47.67

Table 7-70. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant1

Bandwidth (MHz):	45
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	-	-	-78.39	0.15	28.76	-66.50	-13.00	-53.50
5235.00	V	-	-	-79.71	3.54	30.83	-64.42	-13.00	-51.42
6980.00	V	-	-	-79.07	7.97	35.90	-59.35	-13.00	-46.35

Table 7-71. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant1

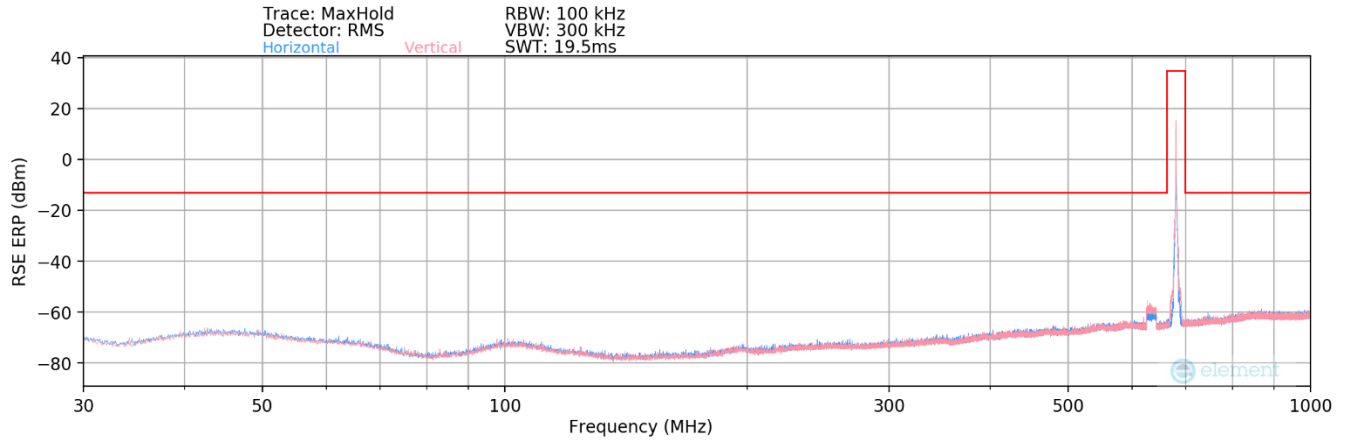
Bandwidth (MHz):	45
Frequency (MHz):	1757.5
RB / Offset:	1 / 108

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]
3515.00	V	-	-	-77.92	0.00	29.08	-66.17	-13.00	-53.17
5272.50	V	-	-	-79.51	3.45	30.94	-64.32	-13.00	-51.32
7030.00	V	-	-	-79.15	8.09	35.94	-59.32	-13.00	-46.32

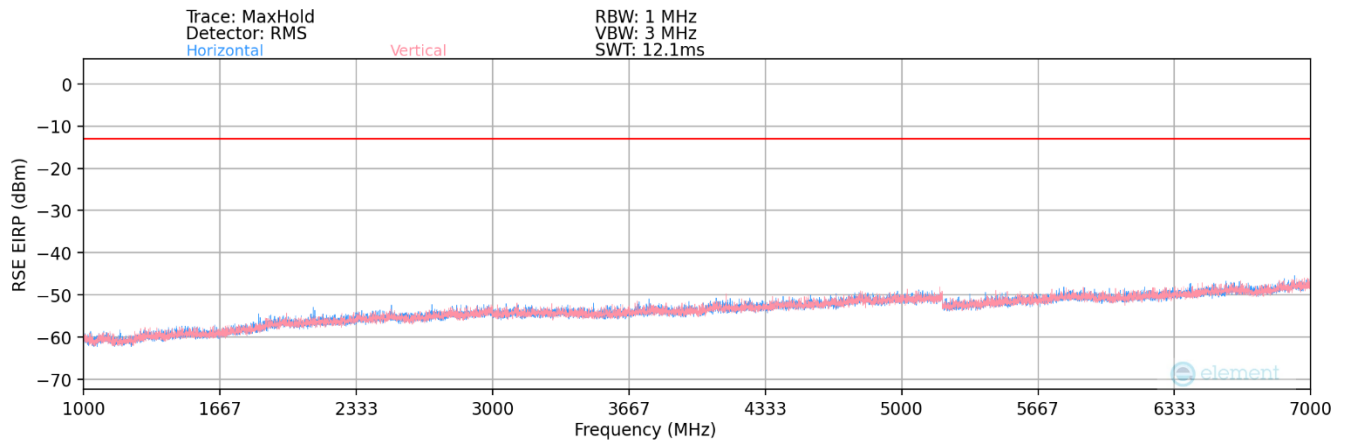
Table 7-72. Radiated Spurious Data (NR Band n66 – High Channel) – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 247 of 272

LTE Band 71 – Ant2



Plot 7-338. Radiated Spurious Plot (LTE Band 71) – Ant2



Plot 7-339. Radiated Spurious Plot (LTE Band 71) – Ant2

Mode:	Stand Alone
Frequency (MHz):	680.5

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]
100.00	H	300	73	-78.65	-13.64	14.71	-82.70	-13.00	-69.70

Table 7-73. Radiated Spurious Data (LTE Band 71) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 248 of 272

Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	H	108	35	-66.74	-2.27	37.99	-57.27	-13.00	-44.27
2019.00	H	112	49	-64.16	1.23	44.07	-51.19	-13.00	-38.19
2692.00	H	-	-	-78.13	3.05	31.92	-63.34	-13.00	-50.34
3365.00	H	-	-	-78.98	4.88	32.90	-62.36	-13.00	-49.36
4038.00	H	-	-	-78.98	5.12	33.14	-62.12	-13.00	-49.12

Table 7-74. Radiated Spurious Data (LTE Band 71 – Low Channel) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	H	163	32	-67.48	-2.35	37.17	-58.09	-13.00	-45.09
2041.50	H	166	46	-63.10	1.05	44.95	-50.31	-13.00	-37.31
2722.00	H	-	-	-78.27	3.42	32.15	-63.10	-13.00	-50.10
3402.50	H	-	-	-78.61	4.60	32.99	-62.26	-13.00	-49.26
4083.00	H	-	-	-79.27	5.90	33.63	-61.63	-13.00	-48.63

Table 7-75. Radiated Spurious Data (LTE Band 71 – Mid Channel) – Ant2

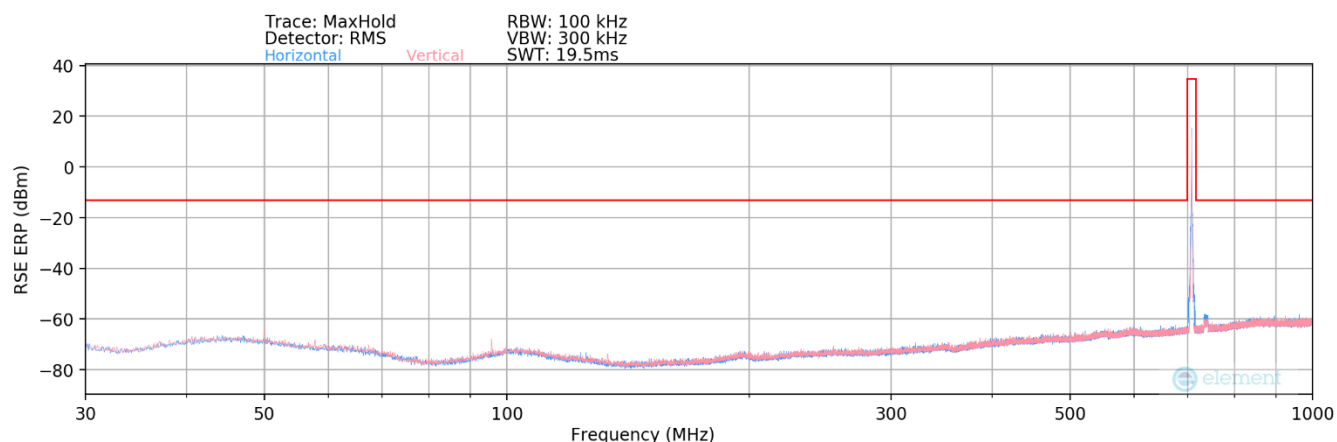
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	H	146	35	-69.74	-2.47	34.79	-60.46	-13.00	-47.46
2064.00	H	156	50	-64.21	0.93	43.72	-51.54	-13.00	-38.54
2752.00	H	-	-	-78.39	3.33	31.94	-63.31	-13.00	-50.31
3440.00	H	-	-	-78.75	4.49	32.74	-62.52	-13.00	-49.52
4128.00	H	-	-	-79.32	5.84	33.52	-61.74	-13.00	-48.74

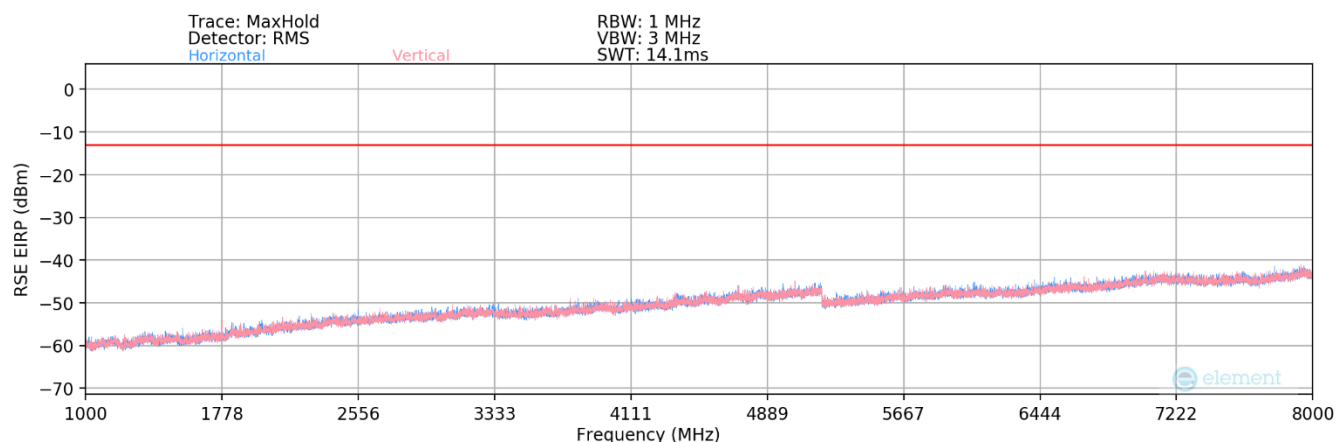
Table 7-76. Radiated Spurious Data (LTE Band 71 – High Channel) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 249 of 272

LTE Band 12 – Ant2



Plot 7-340. Radiated Spurious Plot (LTE Band 12) – Ant2



Plot 7-341. Radiated Spurious Plot (LTE Band 12) – Ant2

Mode:	Stand Alone
Frequency (MHz):	707.5

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]
102.19	V	229	125	-78.79	-13.43	14.78	-82.63	-13.00	-69.63

Table 7-77. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager	
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset			Page 250 of 272	

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	-	-	-77.44	-2.67	26.89	-68.37	-13.00	-55.37
2112.00	H	-	-	-79.84	1.47	28.63	-66.63	-13.00	-53.63
2816.00	H	-	-	-78.36	3.75	32.39	-62.87	-13.00	-49.87

Table 7-78. Radiated Spurious Data (LTE Band 12 – Low Channel) – Ant2

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	-	-	-77.32	-2.65	27.03	-68.23	-13.00	-55.23
2122.50	H	-	-	-80.12	1.56	28.44	-66.81	-13.00	-53.81
2830.00	H	-	-	-78.00	3.39	32.39	-62.87	-13.00	-49.87

Table 7-79. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Ant2

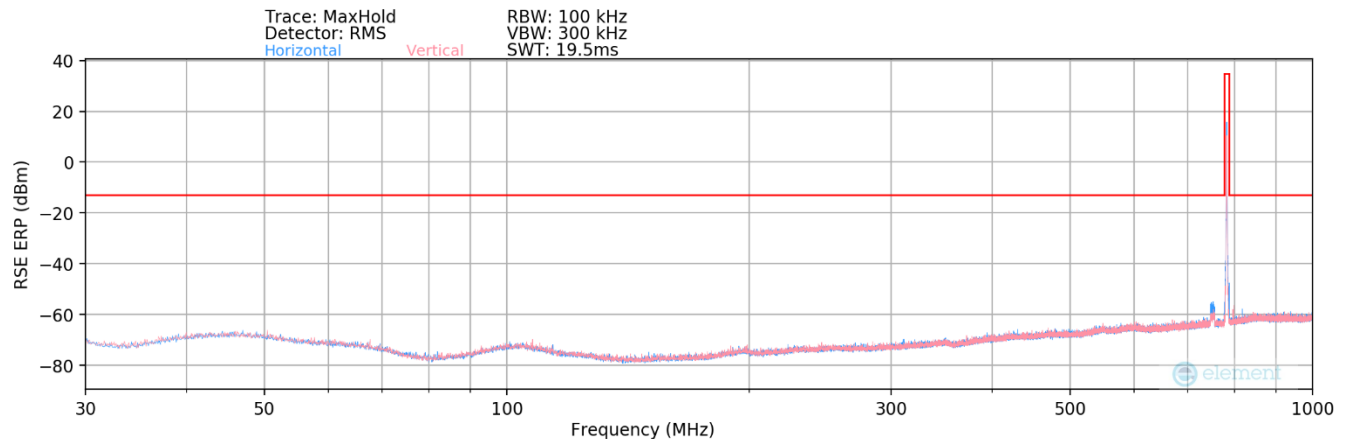
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.00	H	-	-	-77.15	-2.55	27.30	-67.96	-13.00	-54.96
2133.00	H	-	-	-80.18	1.64	28.46	-66.80	-13.00	-53.80
2844.00	H	-	-	-77.93	3.18	32.25	-63.01	-13.00	-50.01

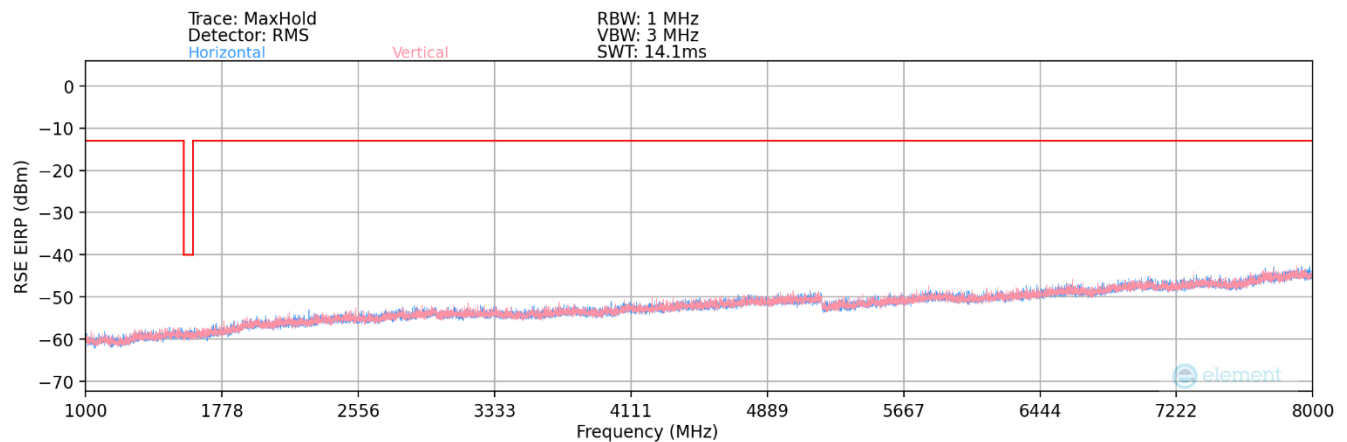
Table 7-80. Radiated Spurious Data (LTE Band 12 – High Channel) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 251 of 272

LTE Band 13 – Ant2



Plot 7-342. Radiated Spurious Plot (LTE Band 13) – Ant2



Plot 7-343. Radiated Spurious Plot (LTE Band 13) – Ant2

Mode:	Stand Alone
Frequency (MHz):	782

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]
101.60	H	210	61	-78.59	-13.48	14.93	-82.48	-13.00	-69.48

Table 7-81. Radiated Spurious Data (LTE Band 13) – Ant2

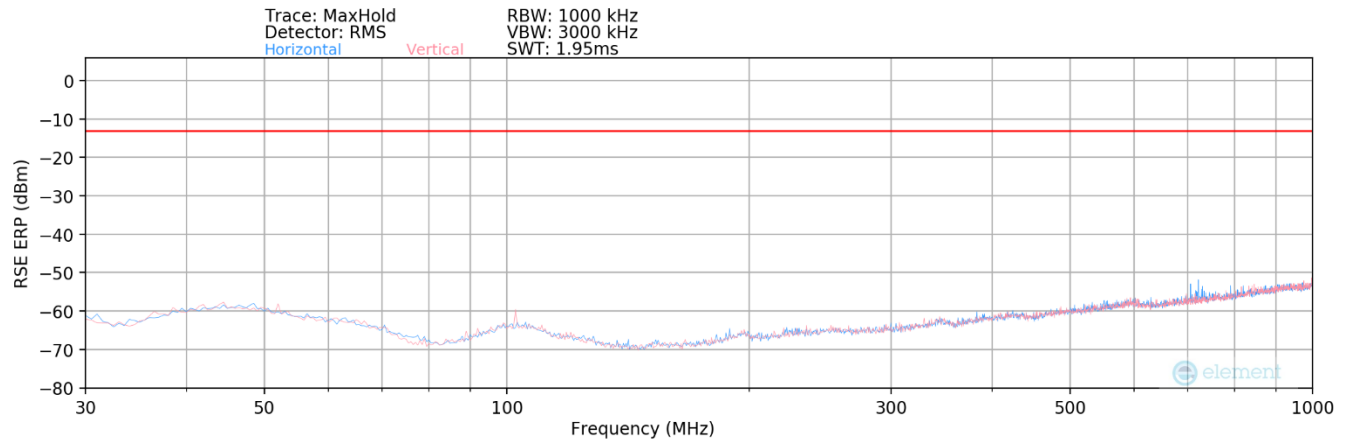
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

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	-	-	-77.41	-1.45	28.14	-67.12	-40.00	-27.12
2346.00	H	-	-	-78.10	2.43	31.33	-63.93	-13.00	-50.93
3128.00	H	-	-	-78.02	3.84	32.82	-62.44	-13.00	-49.44

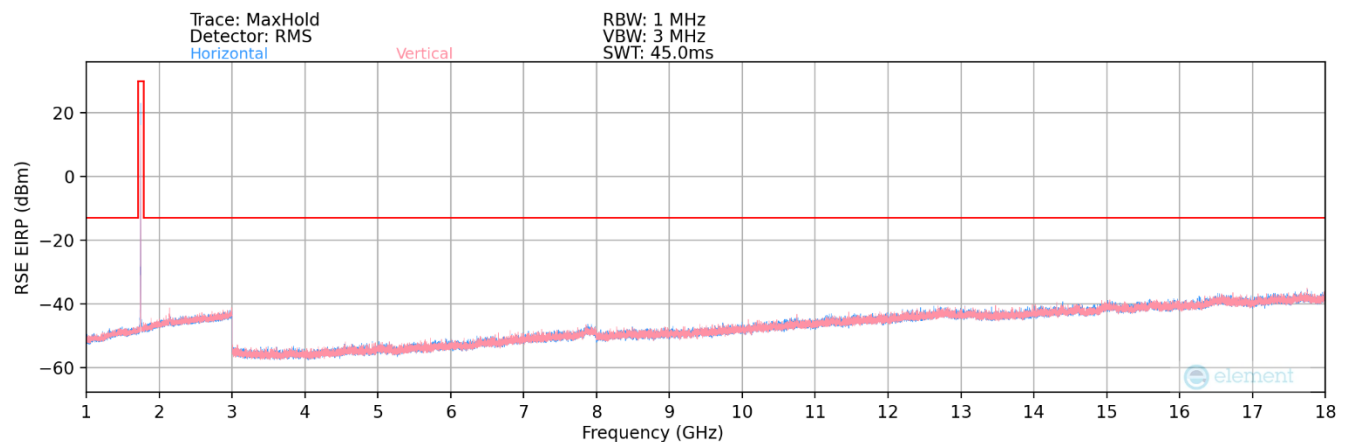
Table 7-82. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 252 of 272

LTE Band 66/4 – Ant2



Plot 7-344. Radiated Spurious Plot (LTE Band 66/4) – Ant2



Plot 7-345. Radiated Spurious Plot (LTE Band 66/4) – Ant2

Mode:	Stand Alone
Frequency (MHz):	1745

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]
98.81	V	170	171	-78.46	-13.80	14.74	-82.67	-13.00	-69.67

Table 7-83. Radiated Spurious Data (LTE Band 66/4) – Ant2

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	H	-	-	-78.83	4.49	32.66	-62.60	-13.00	-49.60
5160.00	H	-	-	-79.44	7.31	34.87	-60.39	-13.00	-47.39
6880.00	H	-	-	-80.59	10.97	37.38	-57.88	-13.00	-44.88

Table 7-84. Radiated Spurious Data (LTE Band 66/4 – Low Channel) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 253 of 272

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	-	-	-78.57	4.38	32.81	-62.44	-13.00	-49.44
5235.00	H	-	-	-79.27	7.45	35.18	-60.08	-13.00	-47.08
6980.00	H	-	-	-80.35	11.61	38.26	-57.00	-13.00	-44.00

Table 7-85. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant2

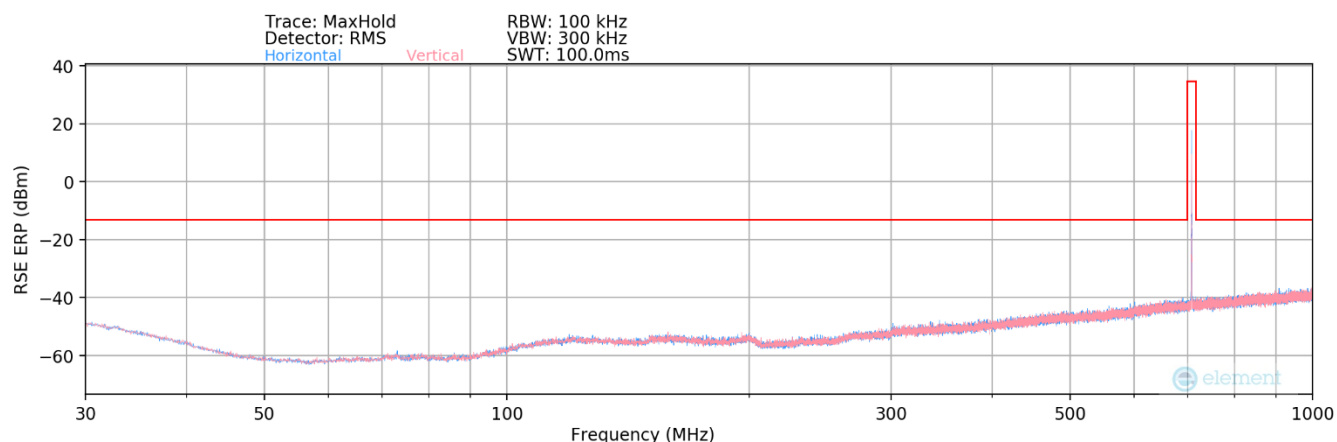
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	H	-	-	-78.51	4.45	32.94	-62.32	-13.00	-49.32
5310.00	H	-	-	-79.53	7.62	35.09	-60.17	-13.00	-47.17
7080.00	H	-	-	-80.28	11.70	38.42	-56.84	-13.00	-43.84

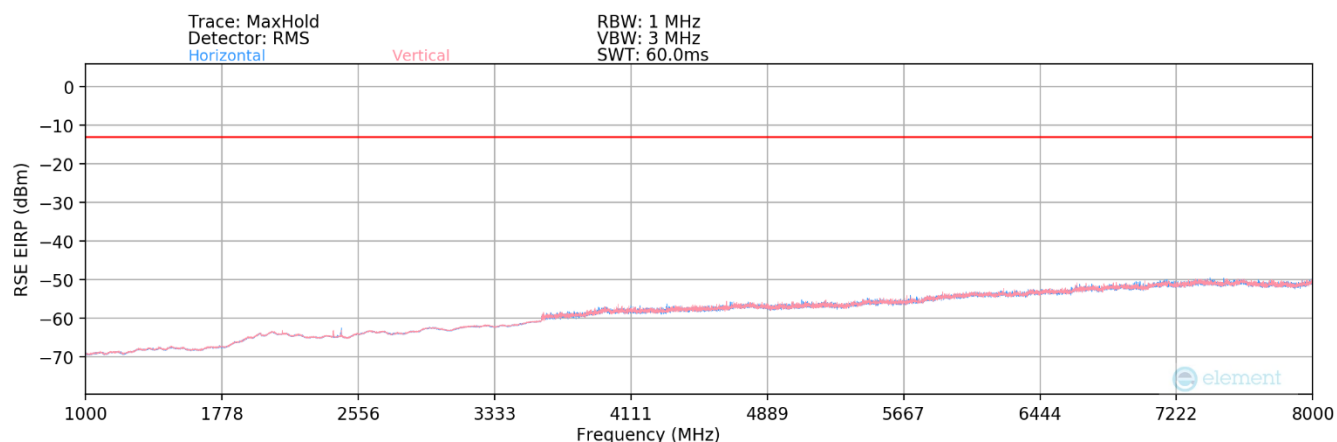
Table 7-86. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 254 of 272

NR Band n12 – Ant2



Plot 7-346. Radiated Spurious Plot (NR Band n12) – Ant2



Plot 7-347. Radiated Spurious Plot (NR Band n12) – Ant2

Mode:	Stand Alone
Frequency (MHz):	707.5

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]
149.68	V	-	-	-83.63	19.82	43.19	-54.22	-13.00	-41.22

Table 7-87. Radiated Spurious Data (NR Band n12) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 255 of 272

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.00	V	241	321	-70.46	-6.96	29.58	-65.68	-13.00	-52.68
2119.50	V	114	140	-69.56	-2.84	34.60	-60.66	-13.00	-47.66
2826.00	V	-	-	-73.03	-2.72	31.25	-64.01	-13.00	-51.01
3532.50	V	-	-	-72.91	-0.26	33.83	-61.42	-13.00	-48.42
4239.00	V	-	-	-70.95	1.65	37.70	-57.56	-13.00	-44.56

Table 7-88. Radiated Spurious Data (NR Band n12 – Low Channel) – Ant2

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	V	224	329	-69.67	-6.96	30.37	-64.88	-13.00	-51.88
2122.50	V	135	143	-68.95	-2.87	35.18	-60.07	-13.00	-47.07
2830.00	V	-	-	-72.62	-2.68	31.70	-63.56	-13.00	-50.56
3537.50	V	-	-	-72.86	-0.21	33.93	-61.33	-13.00	-48.33
4245.00	V	-	-	-70.97	1.70	37.73	-57.53	-13.00	-44.53

Table 7-89. Radiated Spurious Data (NR Band n12 – Mid Channel) – Ant2

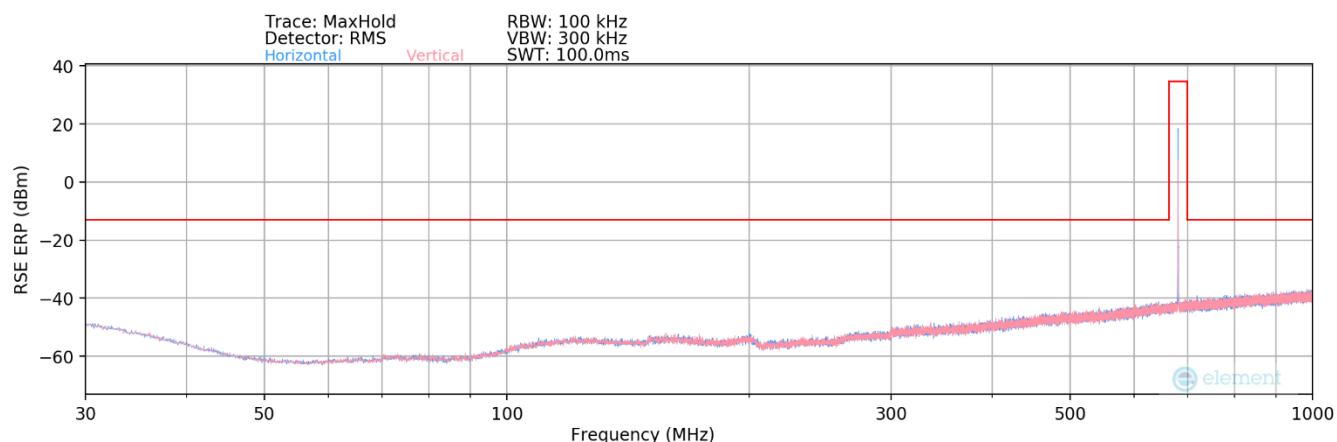
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.00	V	132	317	-69.31	-6.95	30.74	-64.52	-13.00	-51.52
2125.50	V	131	299	-69.20	-2.89	34.91	-60.35	-13.00	-47.35
2834.00	V	-	-	-72.88	-2.64	31.48	-63.78	-13.00	-50.78
3542.50	V	-	-	-72.82	-0.16	34.02	-61.24	-13.00	-48.24
4251.00	V	-	-	-71.15	1.75	37.60	-57.66	-13.00	-44.66

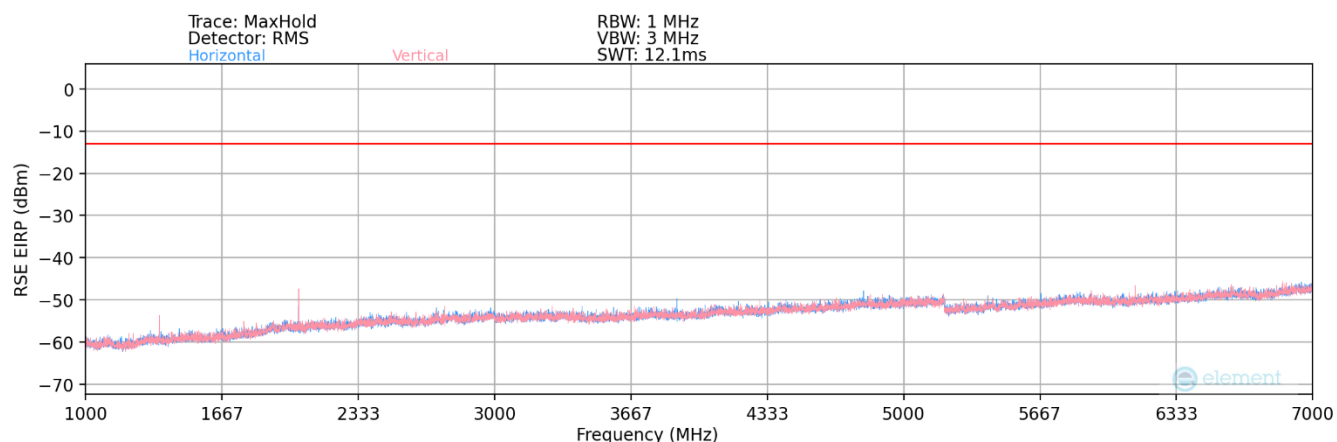
Table 7-90. Radiated Spurious Data (NR Band n12 – High Channel) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 256 of 272

NR Band n71 – Ant2



Plot 7-348. Radiated Spurious Plot (NR Band n71) – Ant2



Plot 7-349. Radiated Spurious Plot (NR Band n71) – Ant2

Mode:	Stand Alone
Frequency (MHz):	680.5

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]
90.10	V	-	-	-83.03	14.60	38.57	-58.84	-13.00	-45.84

Table 7-91. Radiated Spurious Data (NR Band n71) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager	
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset			Page 257 of 272	



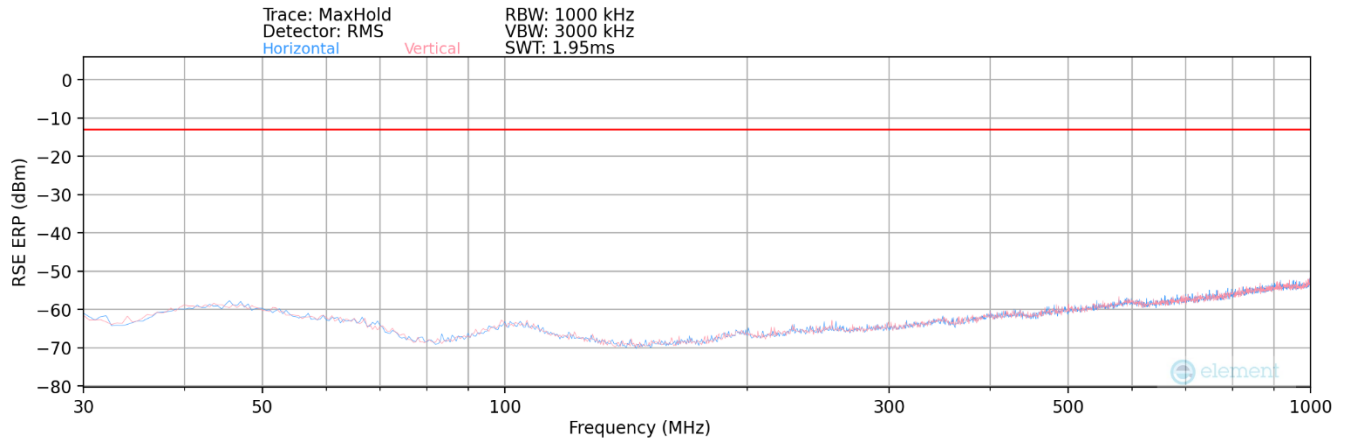
Bandwidth (MHz):	35
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	V	112	321	-67.09	-2.35	37.56	-57.70	-13.00	-44.70
2041.50	V	163	166	-63.32	1.05	44.73	-50.53	-13.00	-37.53
2722.00	V	-	-	-78.03	3.42	32.39	-62.86	-13.00	-49.86
3402.50	V	-	-	-77.73	4.60	33.87	-61.38	-13.00	-48.38
4083.00	V	-	-	-79.22	5.90	33.68	-61.58	-13.00	-48.58

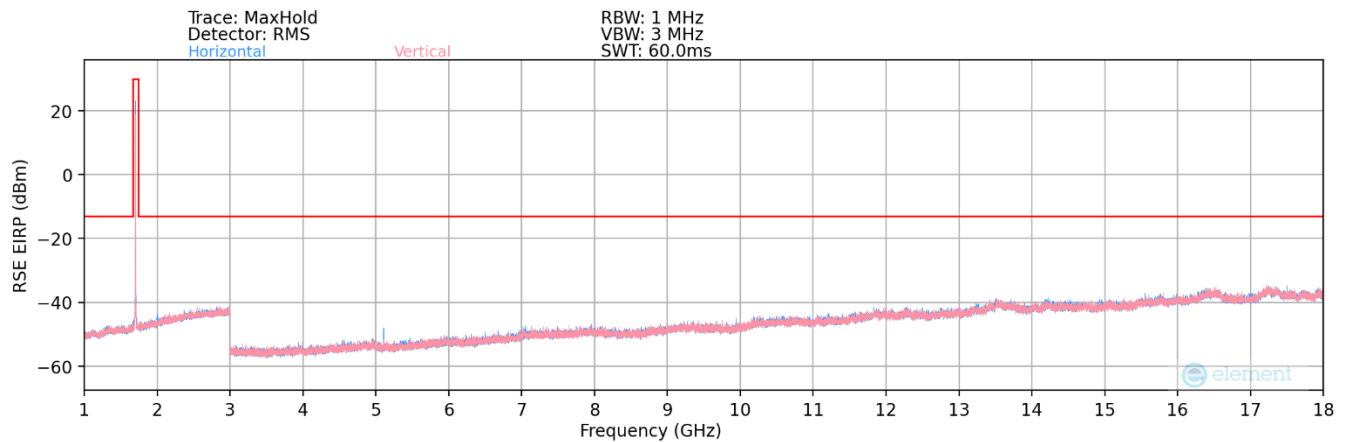
Table 7-92. Radiated Spurious Data (NR Band n71 – Mid Channel) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 258 of 272

NR Band n70 – Ant2



Plot 7-350. Radiated Spurious Plot (NR Band n70) – Ant2



Plot 7-351. Radiated Spurious Plot (NR Band n70) – Ant2

Mode:	Stand Alone
Frequency (MHz):	1702.5

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]
-83.63	V	-	-	-83.63	19.77	43.14	-54.27	-13.00	-41.27

Table 7-93. Radiated Spurious Data (NR Band n70) – Ant2

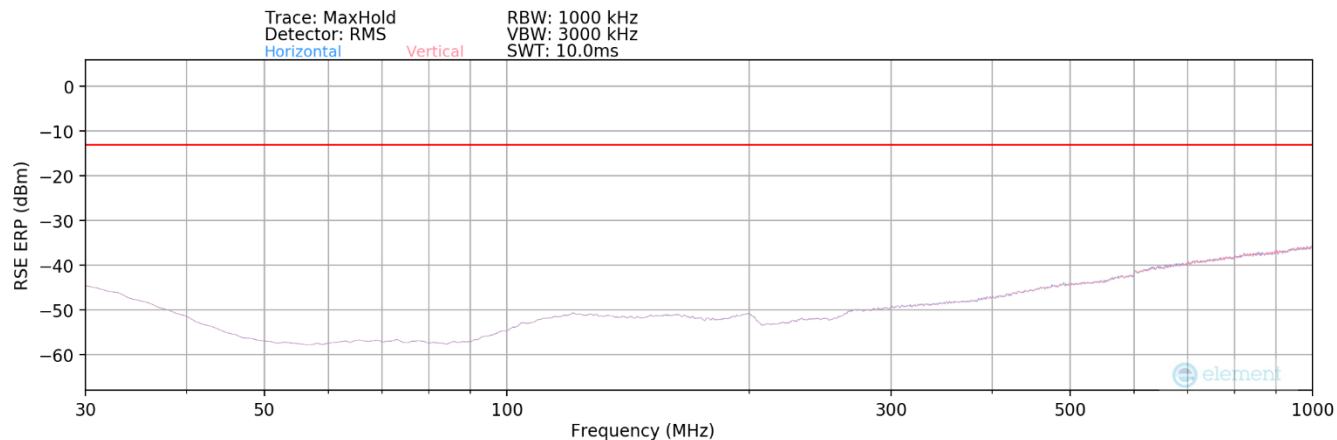
Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 39

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.00	H	-	-	-78.47	0.07	28.60	-66.65	-13.00	-53.65
5107.50	H	-	-	-79.60	3.48	30.88	-64.38	-13.00	-51.38

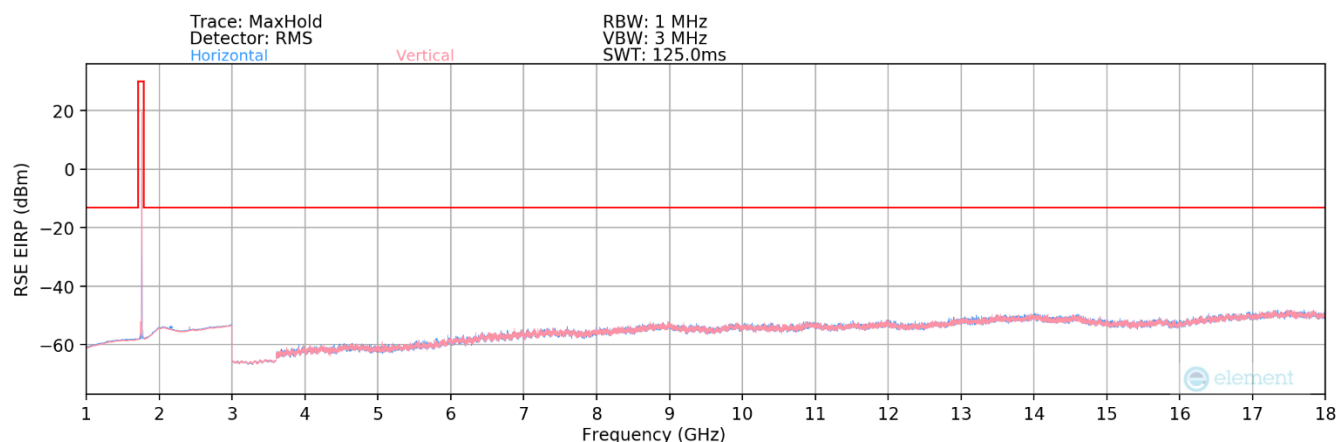
Table 7-94. Radiated Spurious Data (NR Band n70 – Mid Channel) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset		Page 259 of 272

NR Band n66 – Ant2



Plot 7-352. Radiated Spurious Plot (NR Band n66) – Ant2



Plot 7-353. Radiated Spurious Plot (NR Band n66) – Ant2

Mode:	Stand Alone
Channel:	1760
Frequency (MHz):	1745

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]
148.88	H	-	-	-84.40	19.77	42.37	-55.04	-13.00	-42.04

Table 7-95. Radiated Spurious Data (NR Band n66) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager	
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset			Page 260 of 272	

Bandwidth (MHz):	45
Frequency (MHz):	1732.5
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]
3465.00	H	-	-	-78.11	0.10	28.99	-66.27	-13.00	-53.27
5197.50	H	-	-	-79.62	3.55	30.93	-64.33	-13.00	-51.33
6930.00	H	-	-	-80.84	8.60	34.76	-60.49	-13.00	-47.49

Table 7-96. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant2

Bandwidth (MHz):	45
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	H	-	-	-78.25	0.15	28.90	-66.36	-13.00	-53.36
5235.00	H	-	-	-79.77	3.54	30.77	-64.48	-13.00	-51.48
6980.00	H	-	-	-79.04	7.97	35.93	-59.32	-13.00	-46.32

Table 7-97. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant2

Bandwidth (MHz):	45
Frequency (MHz):	1757.5
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]
3515.00	H	-	-	-77.90	0.00	29.10	-66.15	-13.00	-53.15
5272.50	H	-	-	-79.59	3.45	30.86	-64.40	-13.00	-51.40
7030.00	H	-	-	-79.12	8.09	35.97	-59.29	-13.00	-46.29

Table 7-98. Radiated Spurious Data (NR Band n66 – High Channel) – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 261 of 272



7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

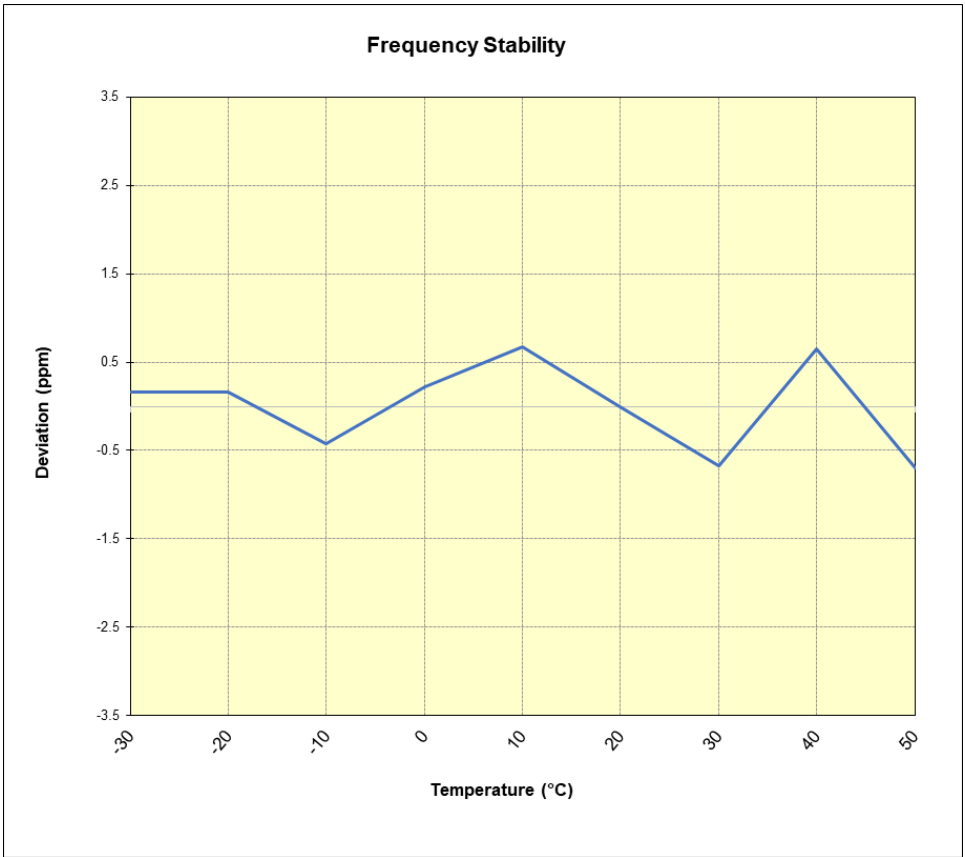
Test Notes

None

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 262 of 272

WCDMA AWS					
		Operating Frequency (Hz):		1,732,600,000	
		Ref. Voltage (VDC):		3.85	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	1,732,503,998	283	0.0000163
		- 20	1,732,503,999	284	0.0000164
		- 10	1,732,502,987	-728	-0.0000420
		0	1,732,504,096	381	0.0000220
		+ 10	1,732,504,889	1,174	0.0000678
		+ 20 (Ref)	1,732,503,715	0	0.0000000
		+ 30	1,732,502,554	-1,161	-0.0000670
		+ 40	1,732,504,840	1,125	0.0000649
		+ 50	1,732,502,509	-1,206	-0.0000696
Battery Endpoint	3.21	+ 20	1,732,504,221	506	0.0000292

Table 7-99.WCDMA AWS Frequency Stability Data



Plot 7-354. WCDMA AWS Frequency Stability Chart

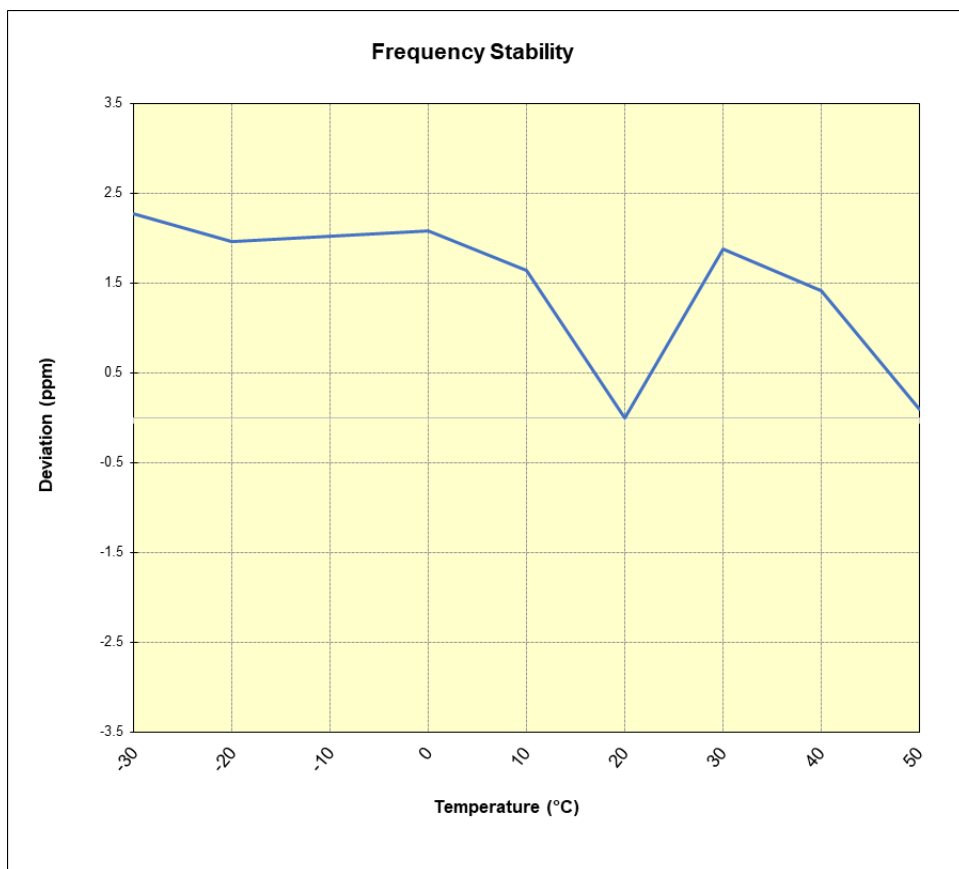
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 263 of 272

LTE Band 71

Operating Frequency (Hz):	680,500,000
Ref. Voltage (VDC):	3.85
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	680,591,799	1,549	0.0002276
		- 20	680,591,592	1,342	0.0001972
		- 10	680,591,629	1,379	0.0002026
		0	680,591,669	1,419	0.0002085
		+ 10	680,592,371	1,121	0.0001647
		+ 20 (Ref)	680,590,250	0	0.0000000
		+ 30	680,591,534	1,284	0.0001887
		+ 40	680,591,216	966	0.0001419
Battery Endpoint	3.21	+ 50	680,590,316	66	0.0000097
		+ 20	680,591,045	795	0.0001168

Table 7-100. LTE Band 71 Frequency Stability Data



Plot 7-355. LTE Band 71 Frequency Stability Chart

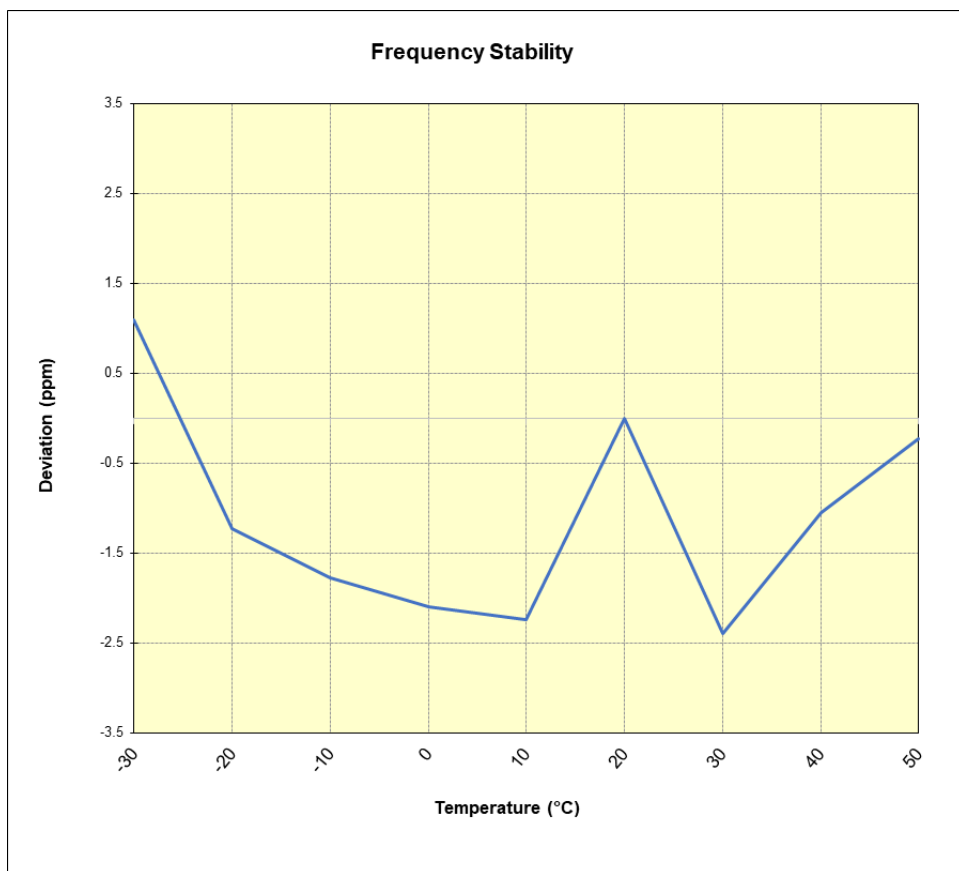
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 264 of 272

LTE Band 12

Operating Frequency (Hz):	707,500,000
Ref. Voltage (VDC):	3.85
Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	707,603,478	774	0.0001094
		- 20	707,601,834	-870	-0.0001230
		- 10	707,601,448	-1,256	-0.0001775
		0	707,601,220	-1,484	-0.0002097
		+ 10	707,601,122	-1,582	-0.0002236
		+ 20 (Ref)	707,602,704	0	0.0000000
		+ 30	707,601,011	-1,693	-0.0002393
		+ 40	707,601,963	-741	-0.0001047
Battery Endpoint	3.21	+ 50	707,602,546	-158	-0.0000223
		+ 20	707,602,478	-226	-0.0000319

Table 7-101. LTE Band 12 Frequency Stability Data



Plot 7-356. LTE Band 12 Frequency Stability Chart

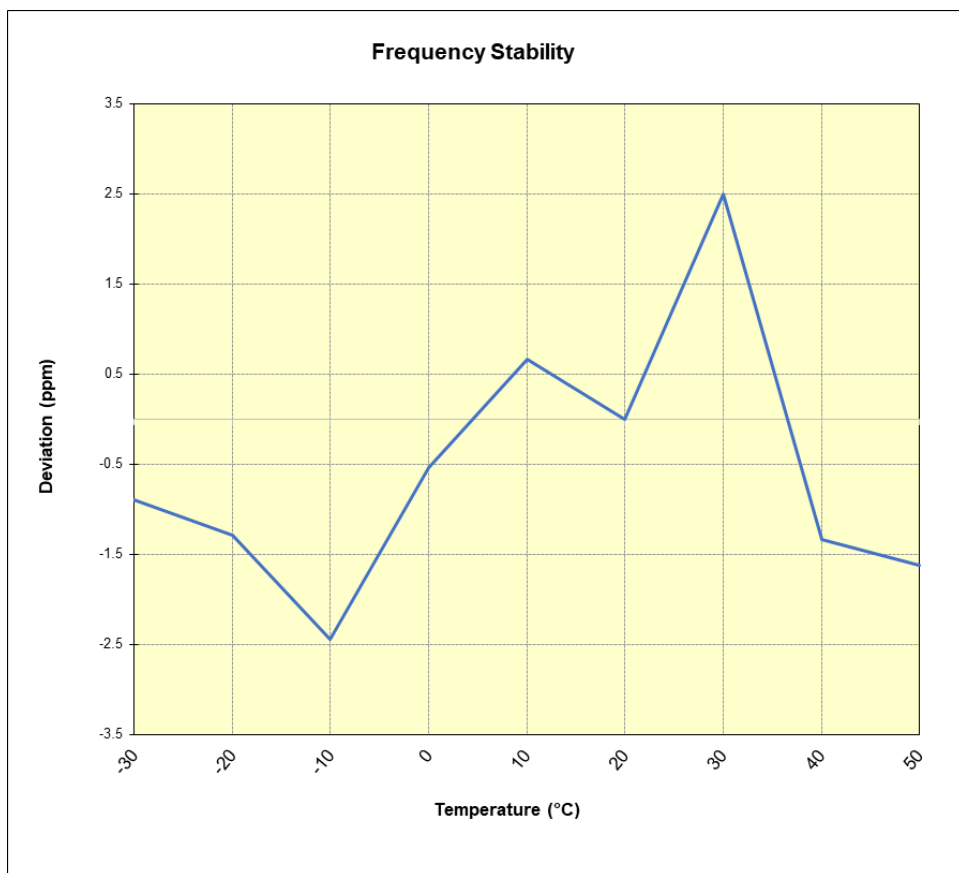
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 265 of 272

LTE Band 13

Operating Frequency (Hz):	782,000,000
Ref. Voltage (VDC):	3.85
Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	-30	782,094,733	-696	-0.0000890
		-20	782,094,425	-1,004	-0.0001284
		-10	782,093,522	-1,907	-0.0002438
		0	782,095,008	-421	-0.0000538
		+10	782,095,953	524	0.0000670
		+20 (Ref)	782,095,429	0	0.0000000
		+30	782,097,389	1,960	0.0002506
		+40	782,094,391	-1,038	-0.0001327
Battery Endpoint	3.21	+50	782,094,166	-1,263	-0.0001615
		+20	782,094,455	-974	-0.0001245

Table 7-102. LTE Band 13 Frequency Stability Data

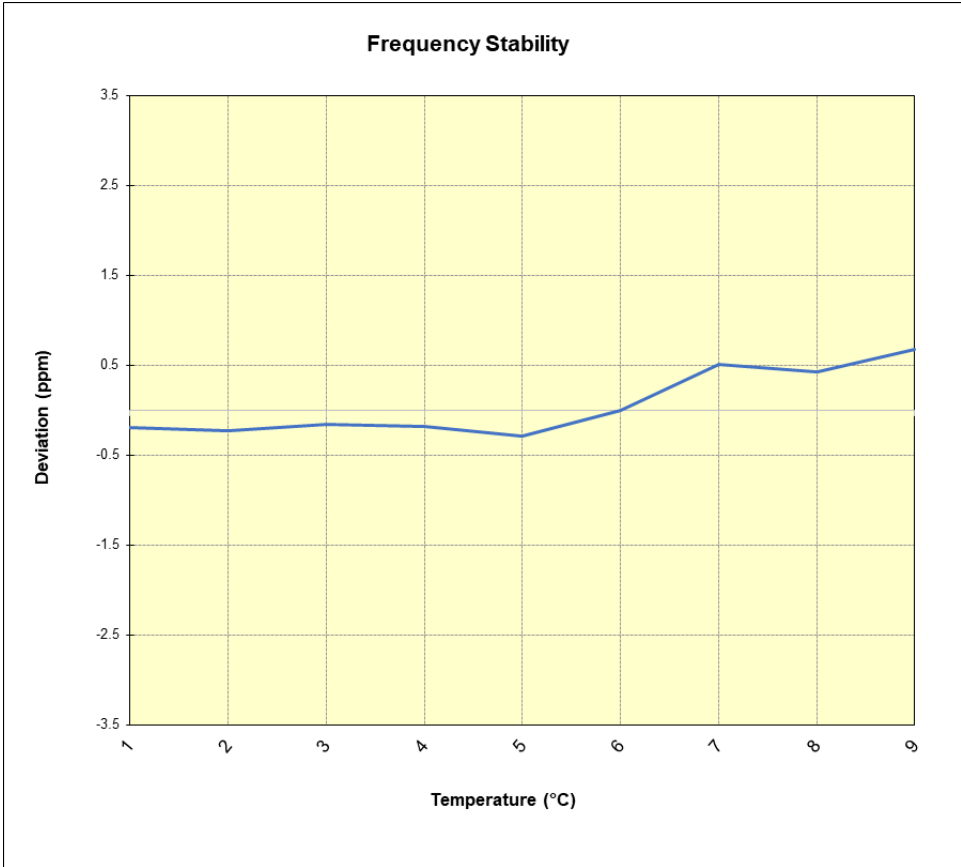


Plot 7-357. LTE Band 13 Frequency Stability Chart

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 266 of 272

LTE Band 66/4					
		Operating Frequency (Hz):		1,745,000,000	
		Ref. Voltage (VDC):		3.85	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	1,745,049,501	-334	-0.0000191
		- 20	1,745,049,433	-402	-0.0000230
		- 10	1,745,049,569	-266	-0.0000152
		0	1,745,049,529	-306	-0.0000175
		+ 10	1,745,049,337	-498	-0.0000285
		+ 20 (Ref)	1,745,049,835	0	0.0000000
		+ 30	1,745,050,736	901	0.0000516
		+ 40	1,745,050,591	756	0.0000433
		+ 50	1,745,051,015	1,180	0.0000676
Battery Endpoint	3.21	+ 20	1,745,048,555	-1,280	-0.0000734

Table 7-103. LTE Band 66/4 Frequency Stability Data



Plot 7-358. LTE Band 66/4Frequency Stability Chart

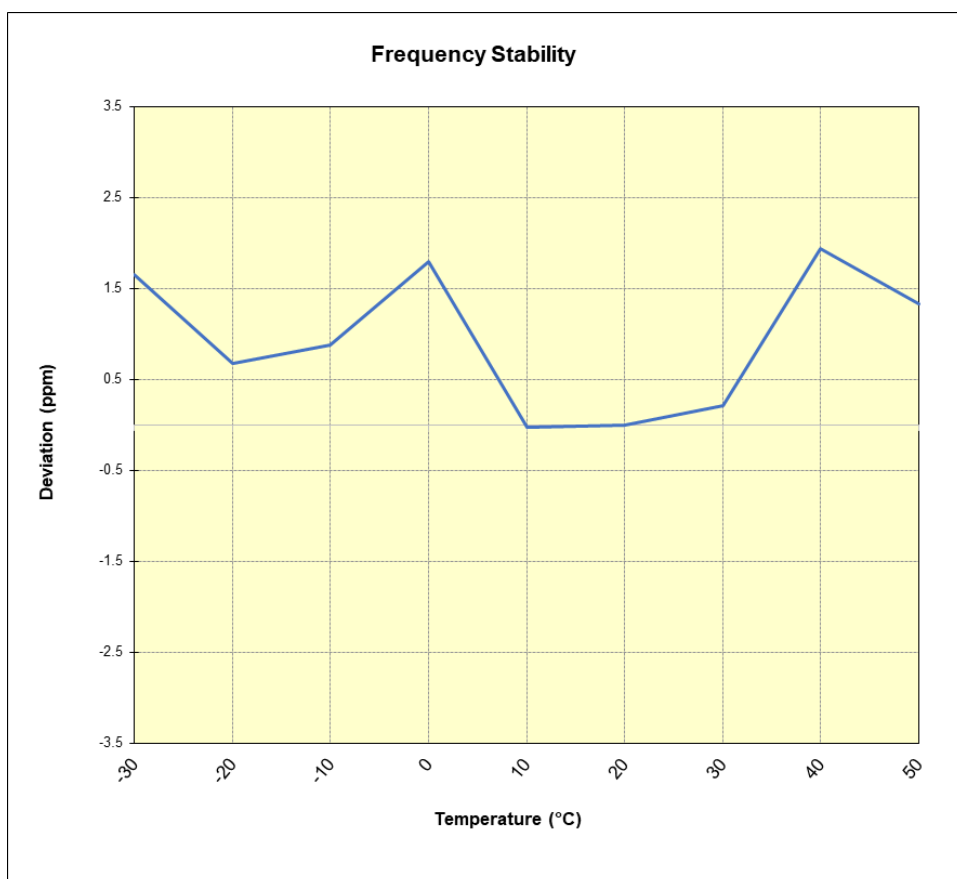
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 267 of 272

NR Band n71

Operating Frequency (Hz):	680,500,000
Ref. Voltage (VDC):	3.85
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	680,498,348	1,124	0.0001652
		- 20	680,497,687	463	0.0000680
		- 10	680,497,822	598	0.0000879
		0	680,498,446	1,222	0.0001796
		+ 10	680,497,210	-14	-0.0000021
		+ 20 (Ref)	680,497,224	0	0.0000000
		+ 30	680,497,371	147	0.0000216
		+ 40	680,498,546	1,322	0.0001943
		+ 50	680,498,135	911	0.0001339
Battery Endpoint	3.21	+ 20	680,497,706	482	0.0000708

Table 7-104. NR Band n71 Frequency Stability Data



Plot 7-359. NR Band n71 Frequency Stability Chart

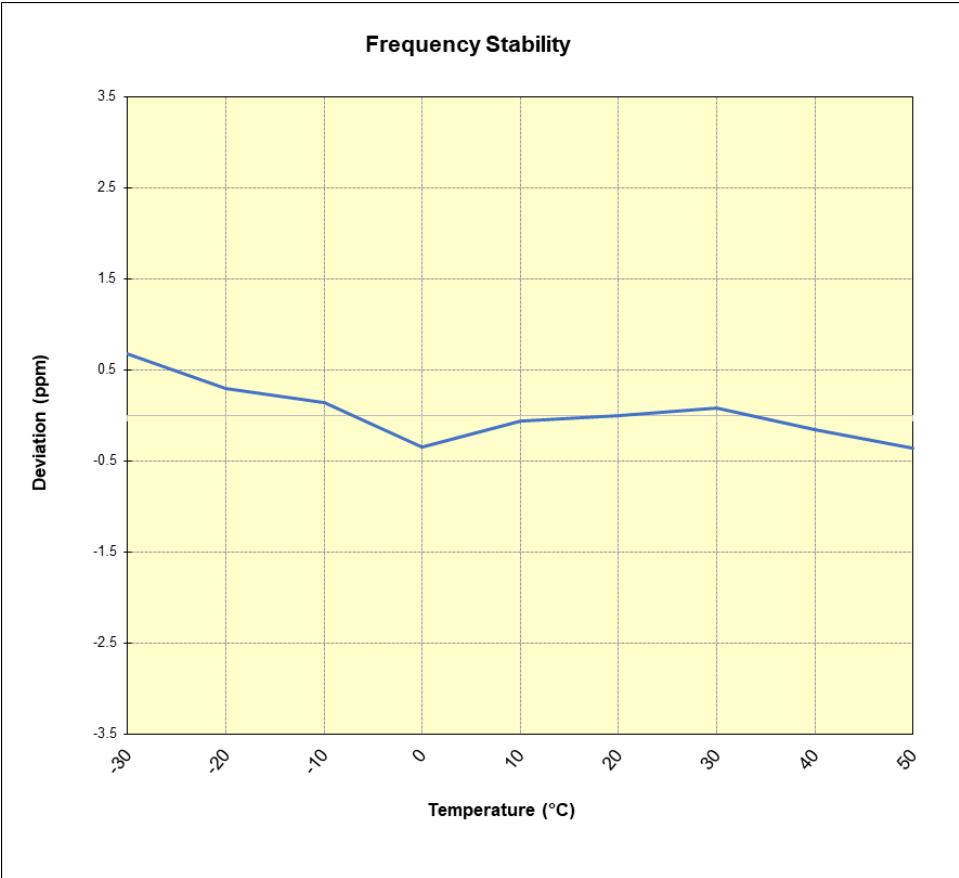
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 268 of 272

NR Band n12

Operating Frequency (Hz):	707,500,000
Ref. Voltage (VDC):	3.85
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	707,497,703	481	0.0000680
		- 20	707,497,436	214	0.0000302
		- 10	707,497,327	105	0.0000148
		0	707,496,980	-242	-0.0000342
		+ 10	707,497,178	-44	-0.0000062
		+ 20 (Ref)	707,497,222	0	0.0000000
		+ 30	707,497,281	59	0.0000083
		+ 40	707,497,111	-111	-0.0000157
		+ 50	707,496,971	-251	-0.0000355
Battery Endpoint	3.21	+ 20	707,497,706	484	0.0000684

Table 7-105. NR Band n12 Frequency Stability Data

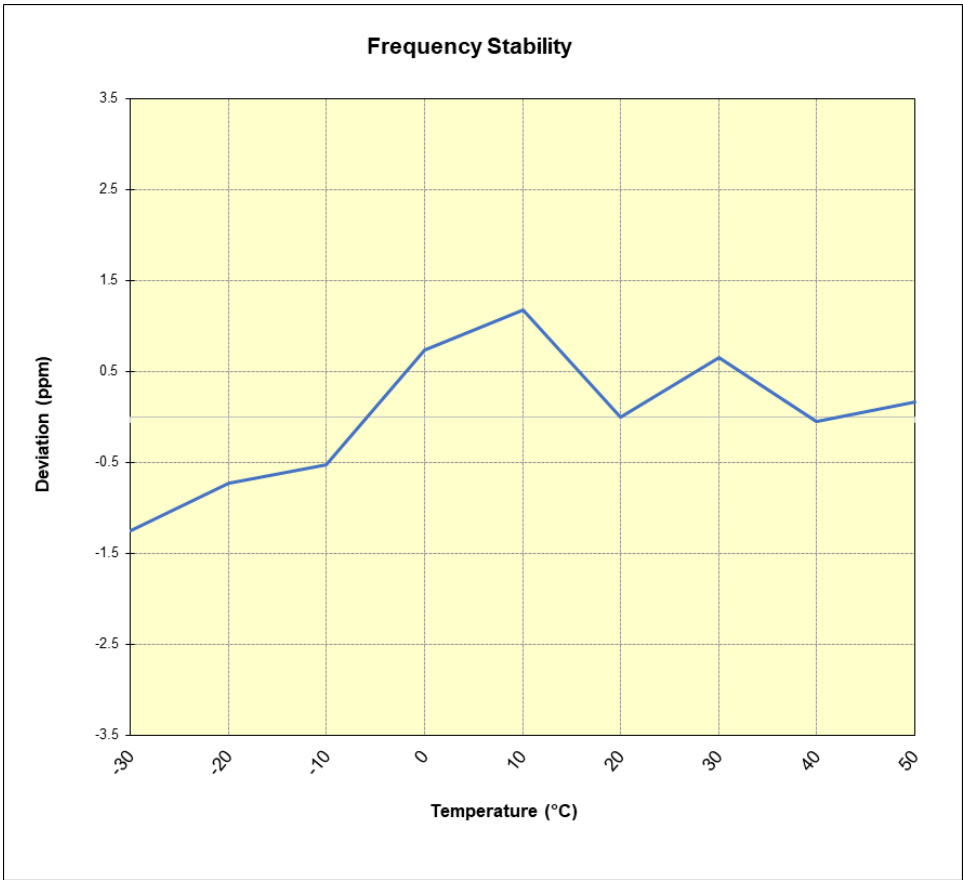


Plot 7-360. NR Band n12 Frequency Stability Chart

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 269 of 272

NR Band n70					
		Operating Frequency (Hz):		1,702,500,000	
		Ref. Voltage (VDC):		3.85	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	1,702,497,730	-2,122	-0.0001246
		- 20	1,702,498,608	-1,244	-0.0000731
		- 10	1,702,498,953	-899	-0.0000528
		0	1,702,501,109	1,257	0.0000738
		+ 10	1,702,501,866	2,014	0.0001183
		+ 20 (Ref)	1,702,499,852	0	0.0000000
		+ 30	1,702,500,963	1,111	0.0000653
		+ 40	1,702,499,770	-82	-0.0000048
		+ 50	1,702,500,141	289	0.0000170
Battery Endpoint	3.21	+ 20	1,702,503,853	4,001	0.0002350

Table 7-106. NR Band n70 Frequency Stability Data

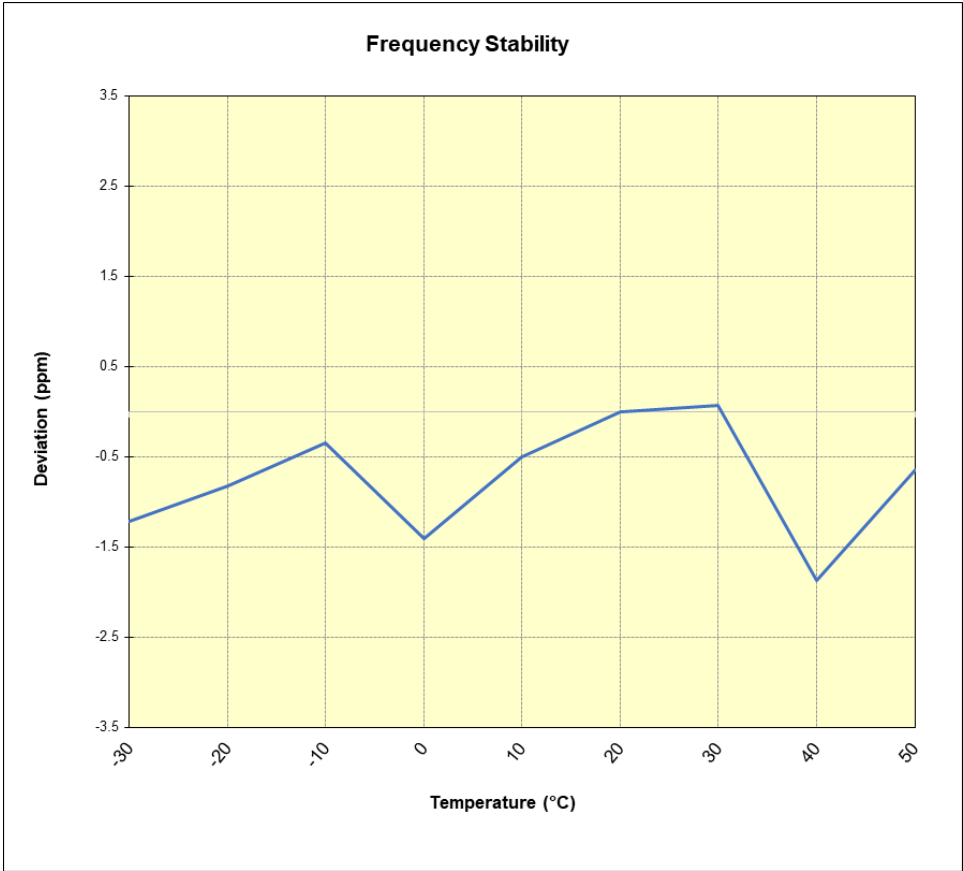


Plot 7-361. NR Band n70 Frequency Stability Chart

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 270 of 272

NR Band n66					
		Operating Frequency (Hz):		1,745,000,000	
		Ref. Voltage (VDC):		3.85	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	1,745,000,249	-2,110	-0.0001209
		- 20	1,745,000,931	-1,428	-0.0000818
		- 10	1,745,001,760	-599	-0.0000343
		0	1,744,999,915	-2,444	-0.0001401
		+ 10	1,745,001,485	-874	-0.0000501
		+ 20 (Ref)	1,745,002,359	0	0.0000000
		+ 30	1,745,002,484	125	0.0000072
		+ 40	1,744,999,103	-3,256	-0.0001866
		+ 50	1,745,001,248	-1,111	-0.0000637
Battery Endpoint	3.21	+ 20	1,745,004,903	2,544	0.0001458

Table 7-107. NR Band n66 Frequency Stability Data



Plot 7-362. NR Band n66 Frequency Stability Chart

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 271 of 272



8.0CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset** **FCC ID: A3LSMS938U** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 272 of 272