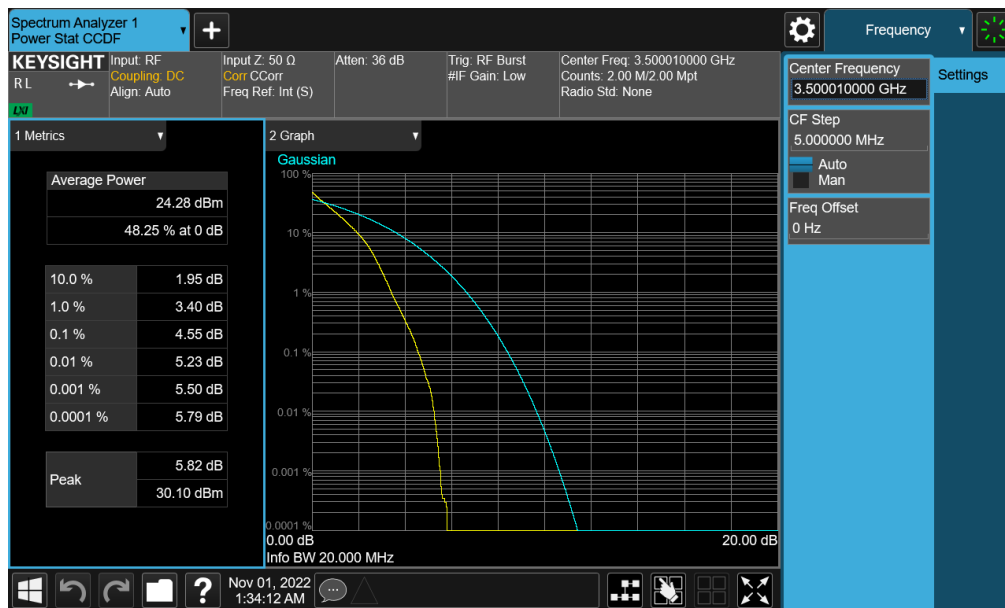


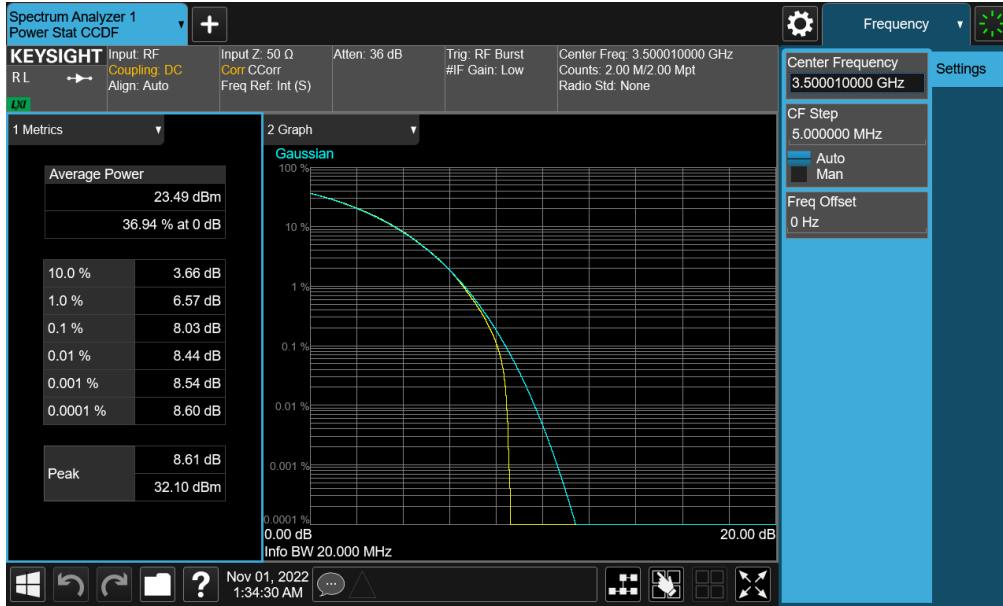


Plot 7-207. PAR Plot (NR Band n77 - DoD Band – 25MHz CP-OFDM 256-QAM - Full RB)

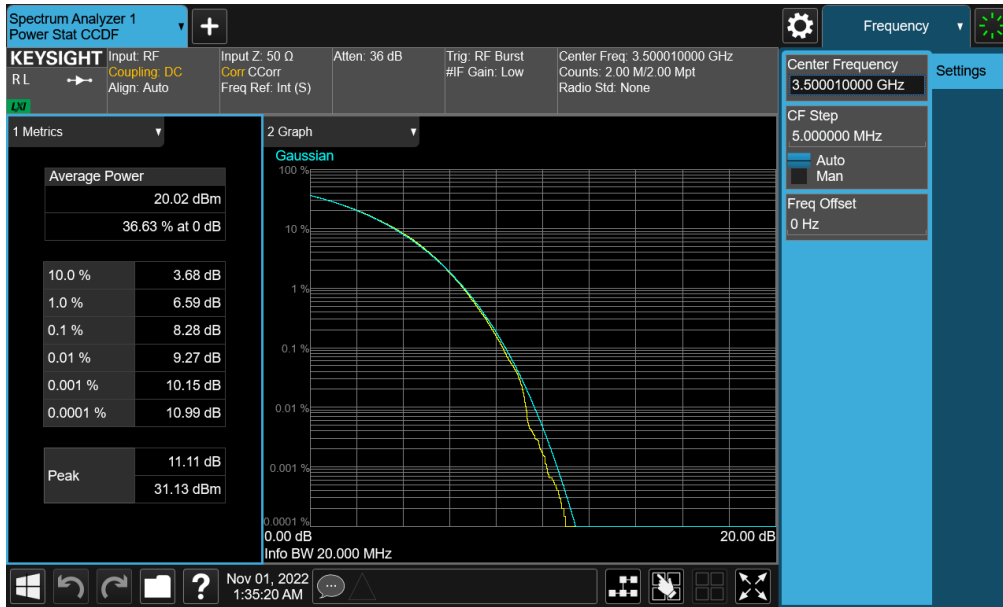


Plot 7-208. PAR Plot (NR Band n77 - DoD Band – 20MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 134 of 202



Plot 7-209. PAR Plot (NR Band n77 - DoD Band – 20MHz CP-OFDM QPSK - Full RB)

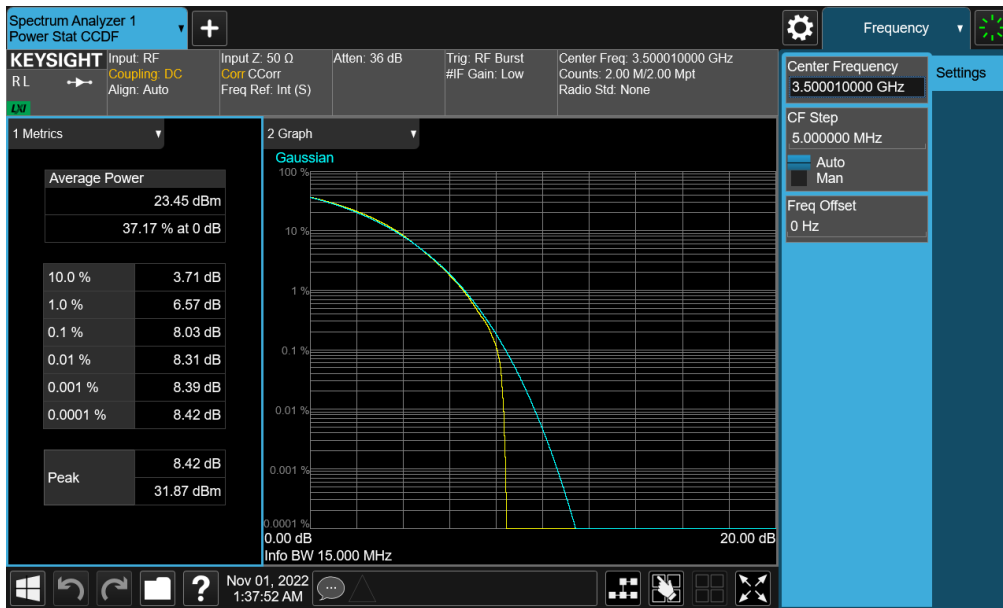


Plot 7-210. PAR Plot (NR Band n77 - DoD Band – 20MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 135 of 202



Plot 7-211. PAR Plot (NR Band n77 - DoD Band – 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

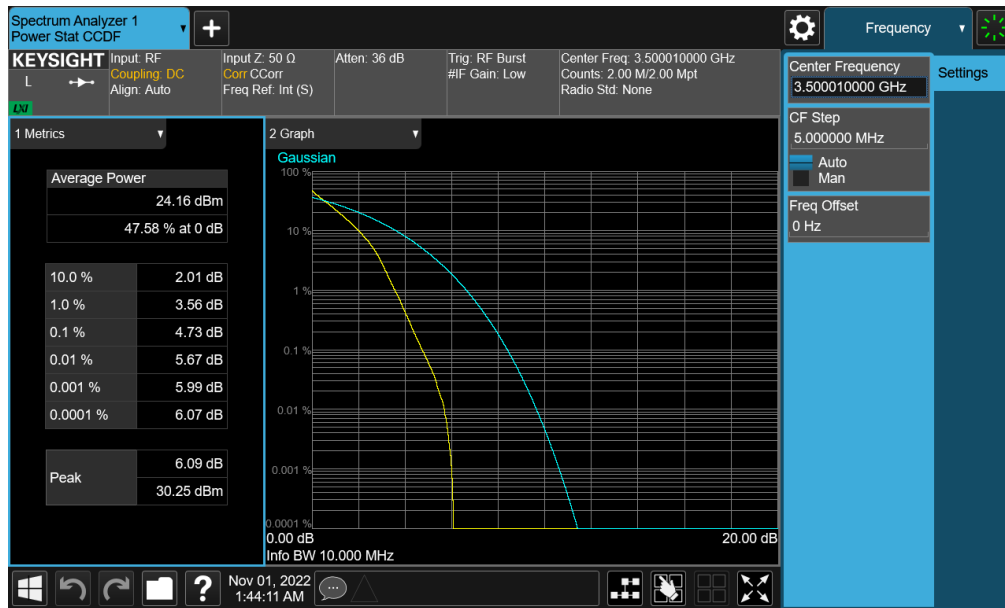


Plot 7-212. PAR Plot (NR Band n77 - DoD Band – 15MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 136 of 202

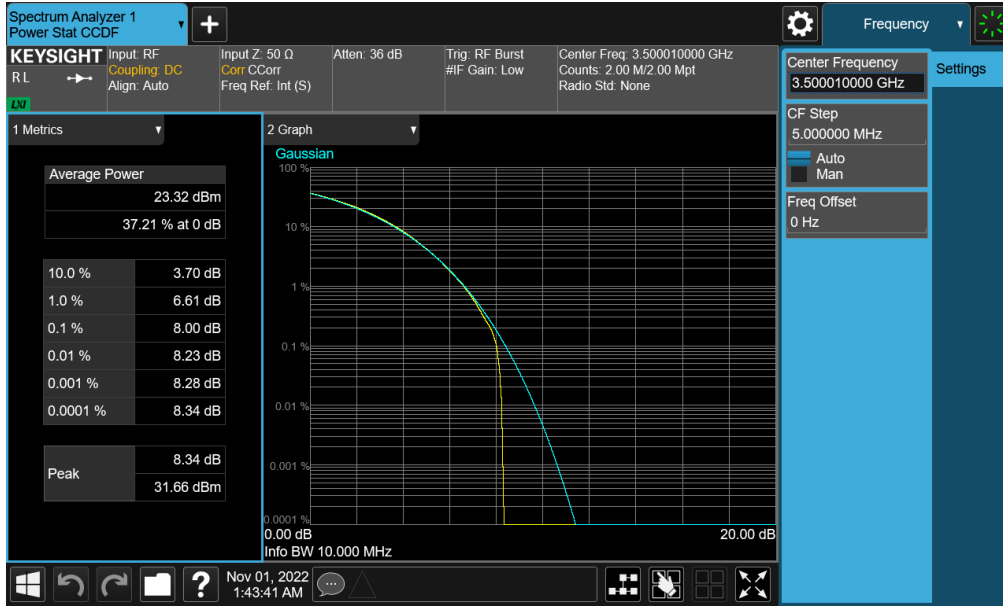


Plot 7-213. PAR Plot (NR Band n77 - DoD Band – 15MHz CP-OFDM 256-QAM - Full RB)

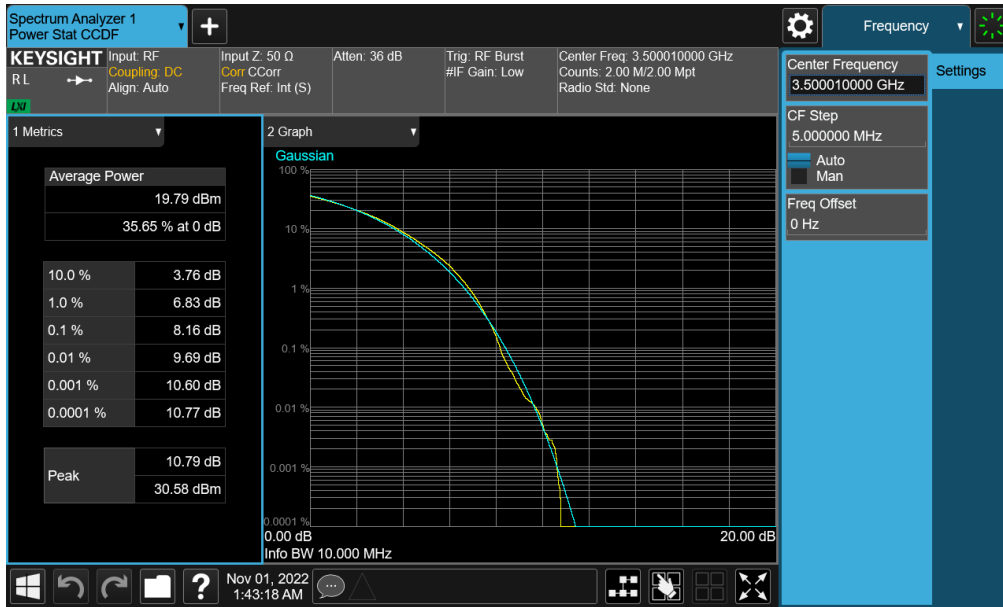


Plot 7-214. PAR Plot (NR Band n77 - DoD Band – 10MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 137 of 202



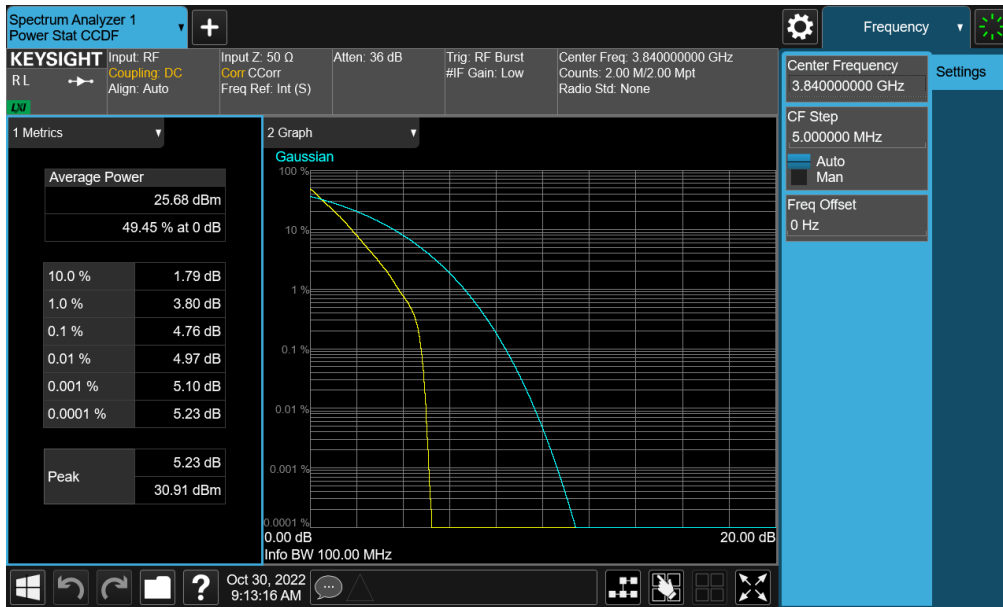
Plot 7-215. PAR Plot (NR Band n77 - DoD Band – 10MHz CP-OFDM QPSK - Full RB)



Plot 7-216. PAR Plot (NR Band n77 - DoD Band – 10MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 138 of 202

NR Band n77 (PC2) - C-Band



Plot 7-217. PAR Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

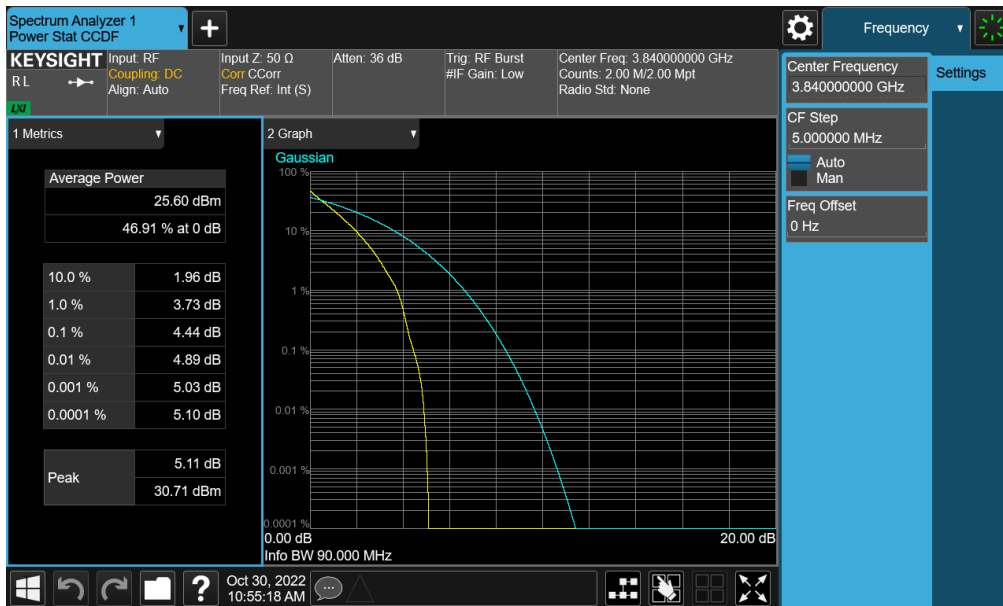


Plot 7-218. PAR Plot (NR Band n77 - C-Band – 100MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 139 of 202



Plot 7-219. PAR Plot (NR Band n77 - C-Band – 100MHz CP-OFDM 256-QAM - Full RB)



Plot 7-220. PAR Plot (NR Band n77 - C-Band – 90MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 140 of 202

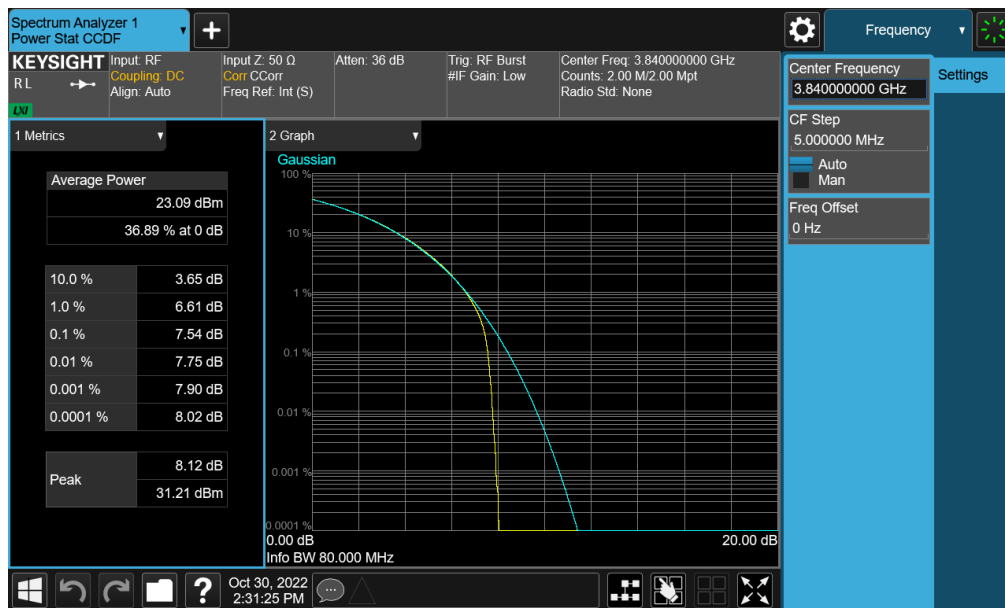
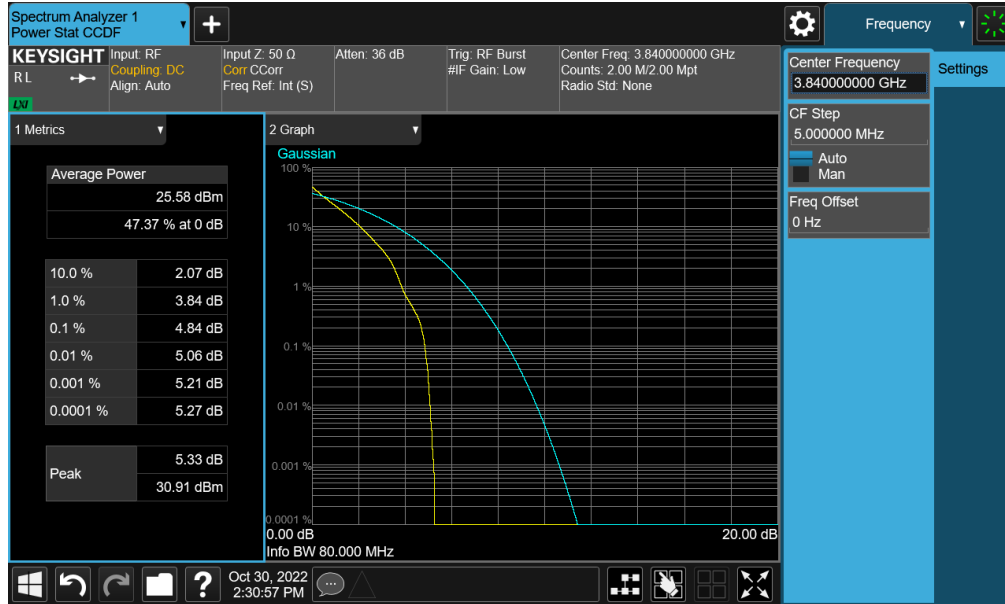


Plot 7-221. PAR Plot (NR Band n77 - C-Band - 90MHz CP-OFDM QPSK - Full RB)



Plot 7-222. PAR Plot (NR Band n77 - C-Band - 90MHz CP-OFDM 256-QAM - Full RB)

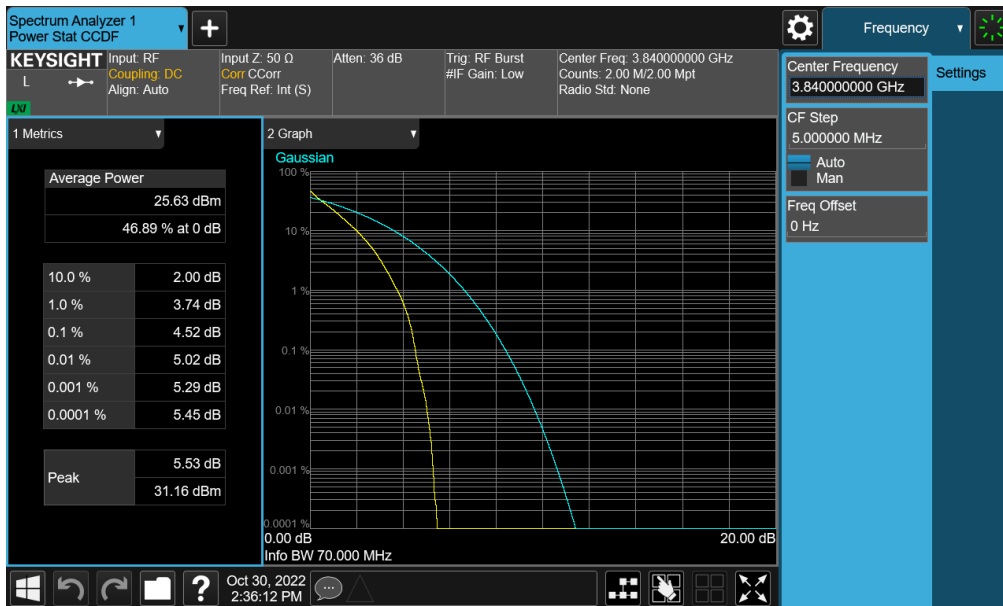
FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 141 of 202



FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 142 of 202



Plot 7-225. PAR Plot (NR Band n77 - C-Band – 80MHz CP-OFDM 256-QAM - Full RB)



Plot 7-226. PAR Plot (NR Band n77 - C-Band – 70MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 143 of 202



Plot 7-227. PAR Plot (NR Band n77 - C-Band – 70MHz CP-OFDM QPSK - Full RB)

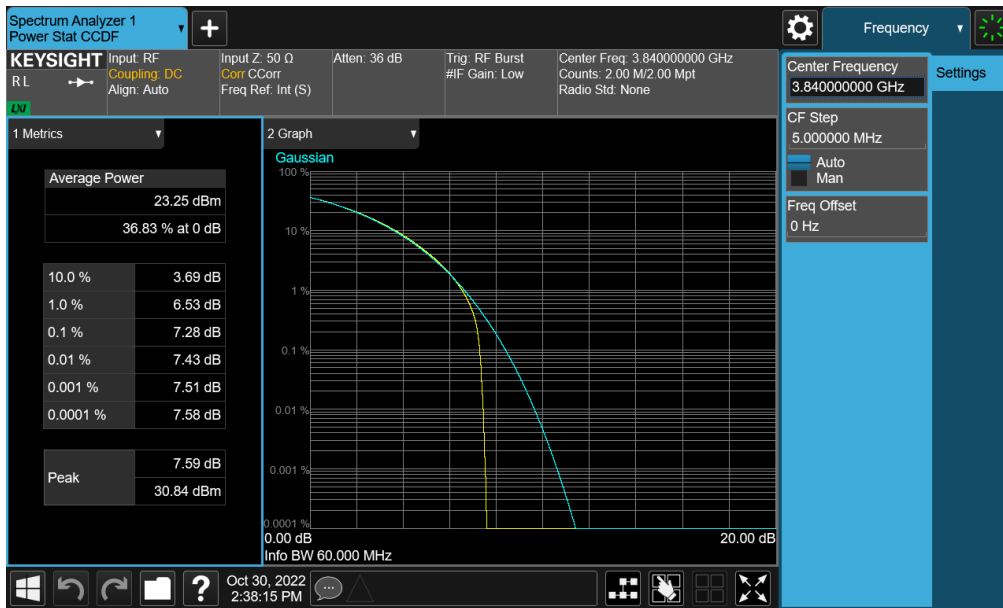


Plot 7-228. PAR Plot (NR Band n77 - C-Band – 70MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 144 of 202



Plot 7-229. PAR Plot (NR Band n77 - C-Band – 60MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

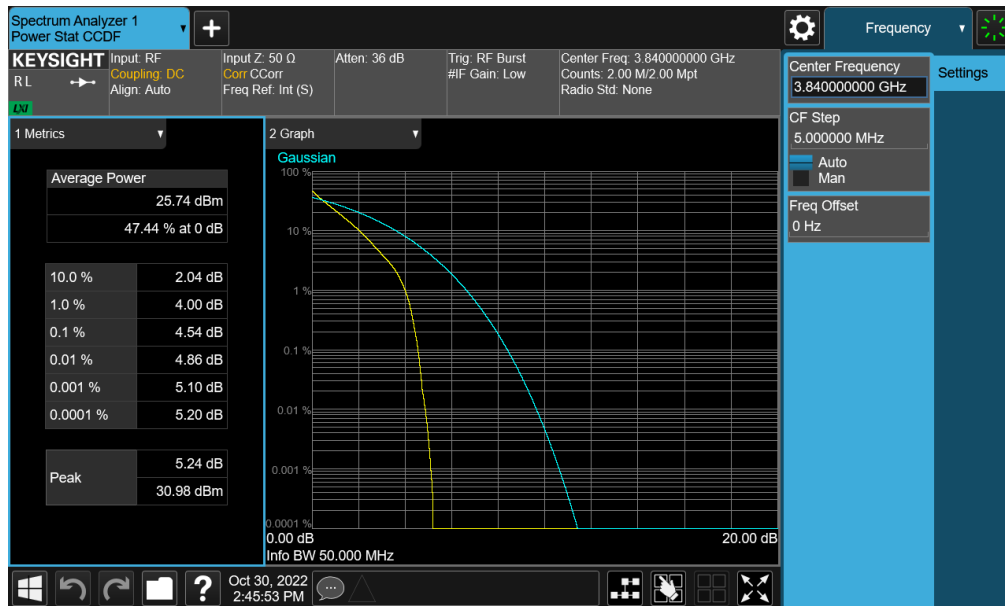


Plot 7-230. PAR Plot (NR Band n77 - C-Band – 60MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 145 of 202



Plot 7-231. PAR Plot (NR Band n77 - C-Band – 60MHz CP-OFDM 256-QAM - Full RB)



Plot 7-232. PAR Plot (NR Band n77 - C-Band – 50MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 146 of 202

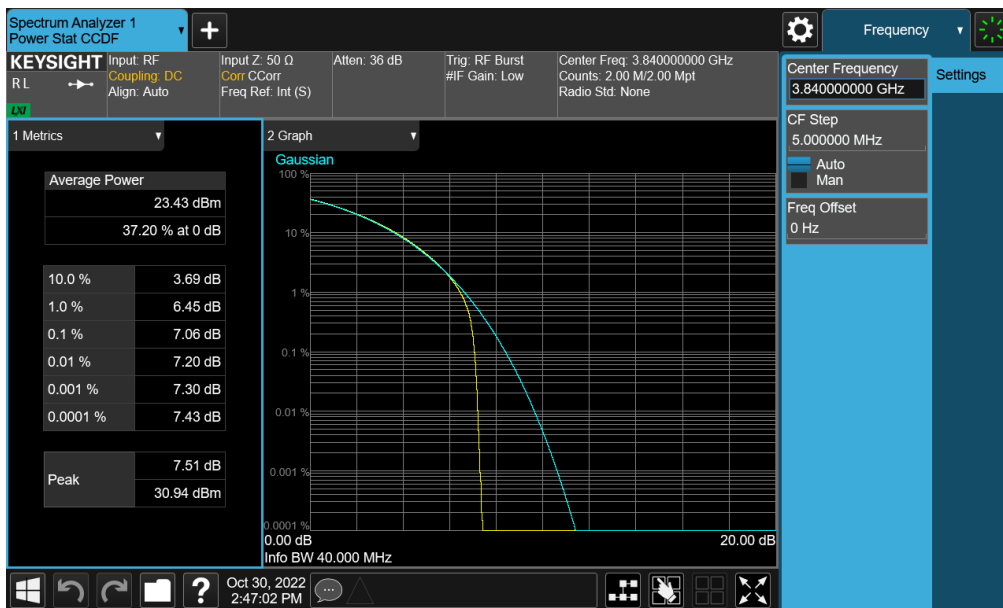
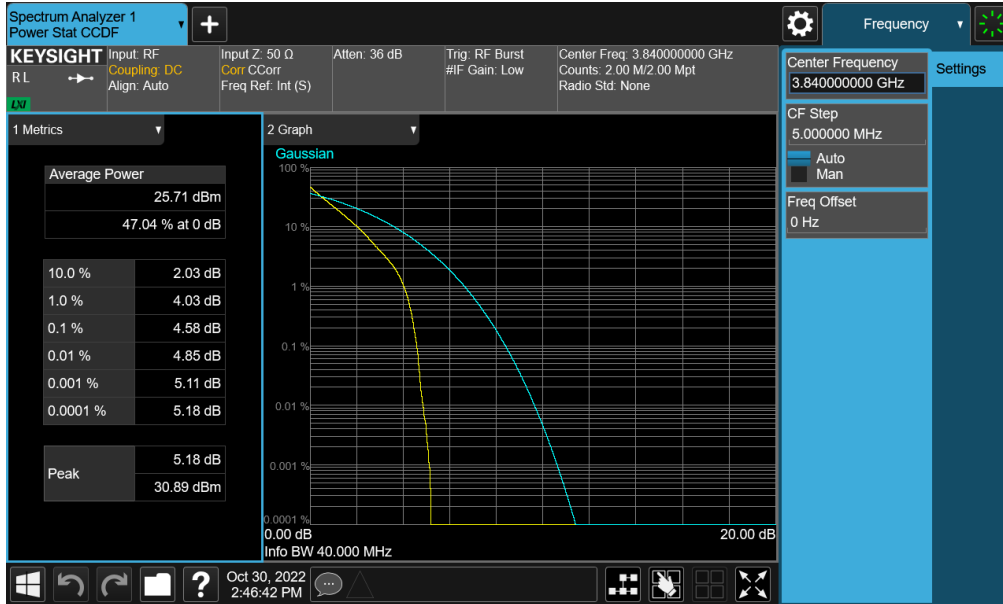


Plot 7-233. PAR Plot (NR Band n77 - C-Band – 50MHz CP-OFDM QPSK - Full RB)



Plot 7-234. PAR Plot (NR Band n77 - C-Band – 50MHz CP-OFDM 256-QAM - Full RB)

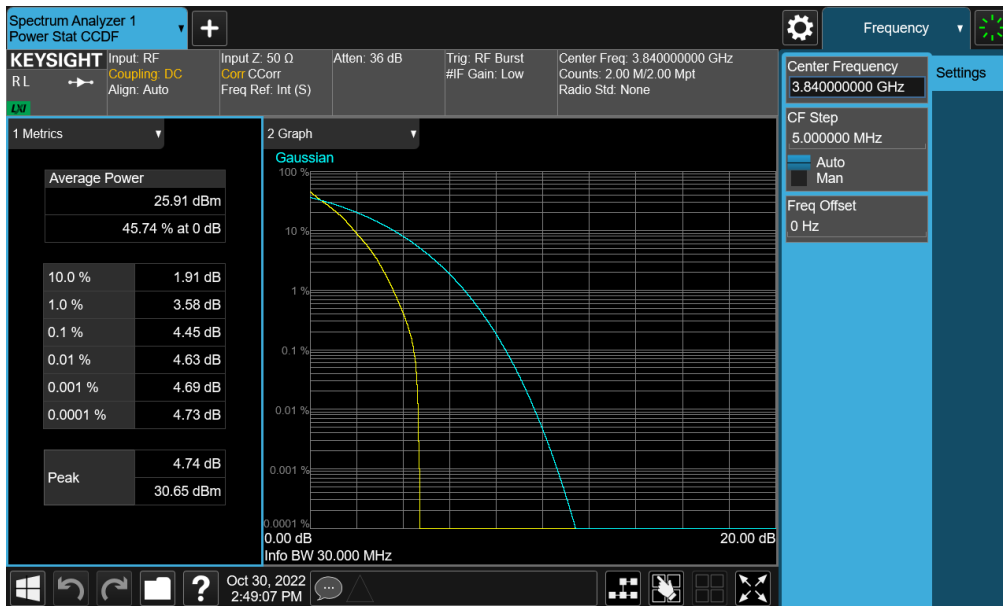
FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 147 of 202



FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 148 of 202

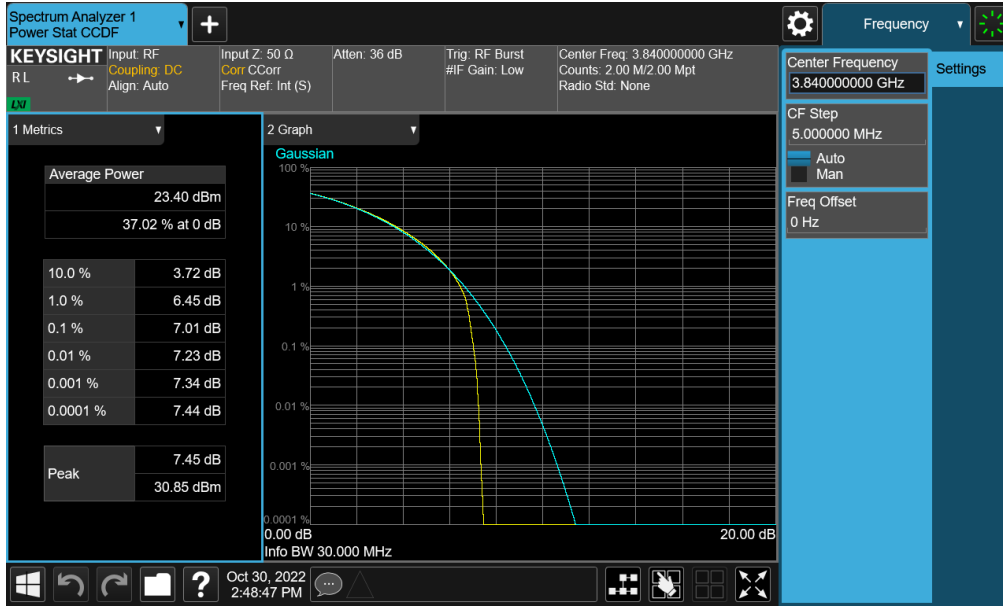


Plot 7-237. PAR Plot (NR Band n77 - C-Band – 40MHz CP-OFDM 256-QAM - Full RB)

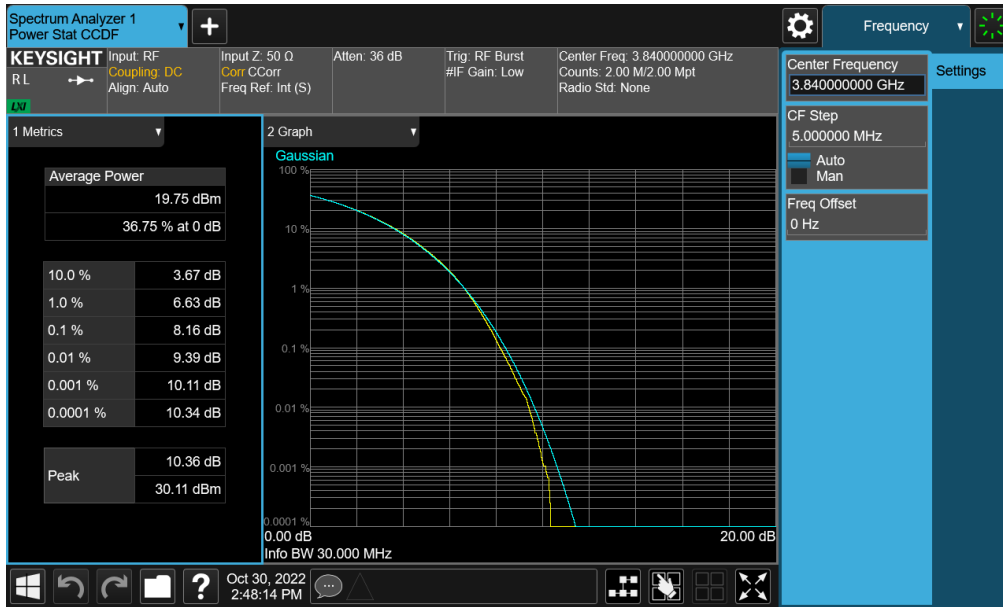


Plot 7-238. PAR Plot (NR Band n77 - C-Band – 30MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 149 of 202



Plot 7-239. PAR Plot (NR Band n77 - C-Band – 30MHz CP-OFDM QPSK - Full RB)

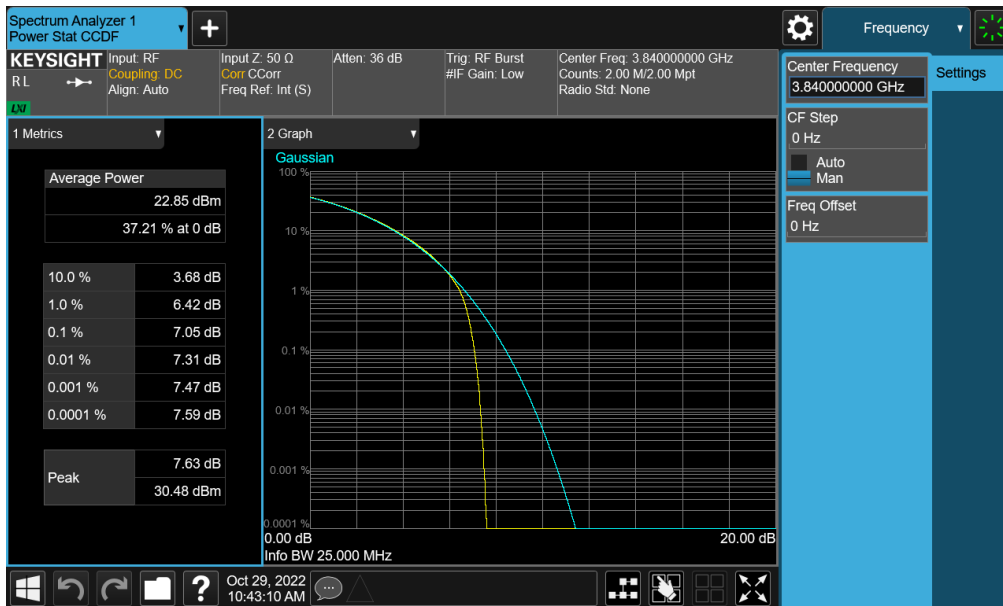


Plot 7-240. PAR Plot (NR Band n77 - C-Band – 30MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 150 of 202



Plot 7-241. PAR Plot (NR Band n77 - C-Band – 25MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

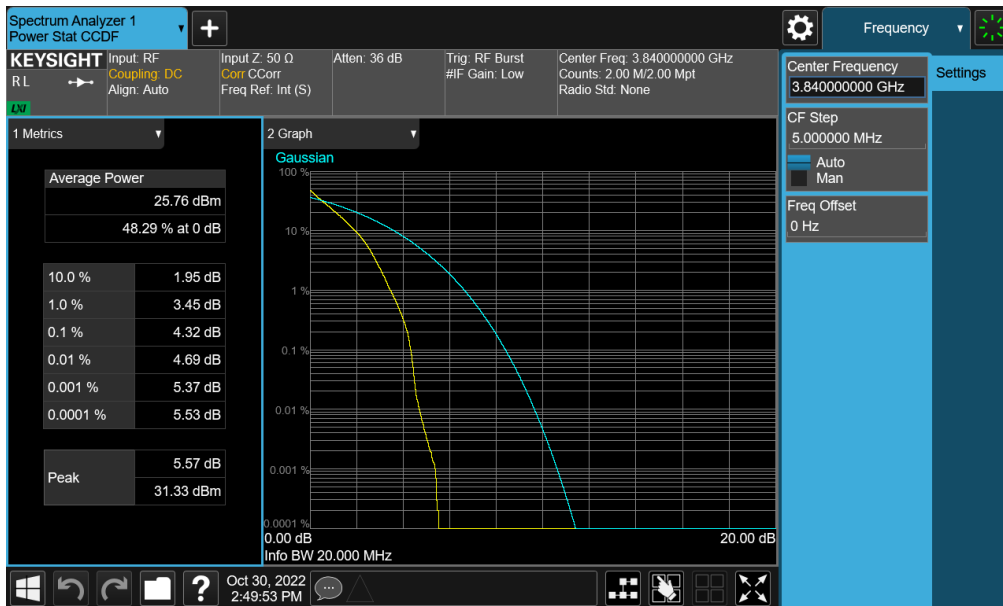


Plot 7-242. PAR Plot (NR Band n77 - C-Band – 25MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 151 of 202



Plot 7-243. PAR Plot (NR Band n77 - C-Band – 25MHz CP-OFDM 256-QAM - Full RB)



Plot 7-244. PAR Plot (NR Band n77 - C-Band – 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 152 of 202



Plot 7-245. PAR Plot (NR Band n77 - C-Band – 20MHz CP-OFDM QPSK - Full RB)



Plot 7-246. PAR Plot (NR Band n77 - C-Band – 20MHz CP-OFDM 256-QAM - Full RB)

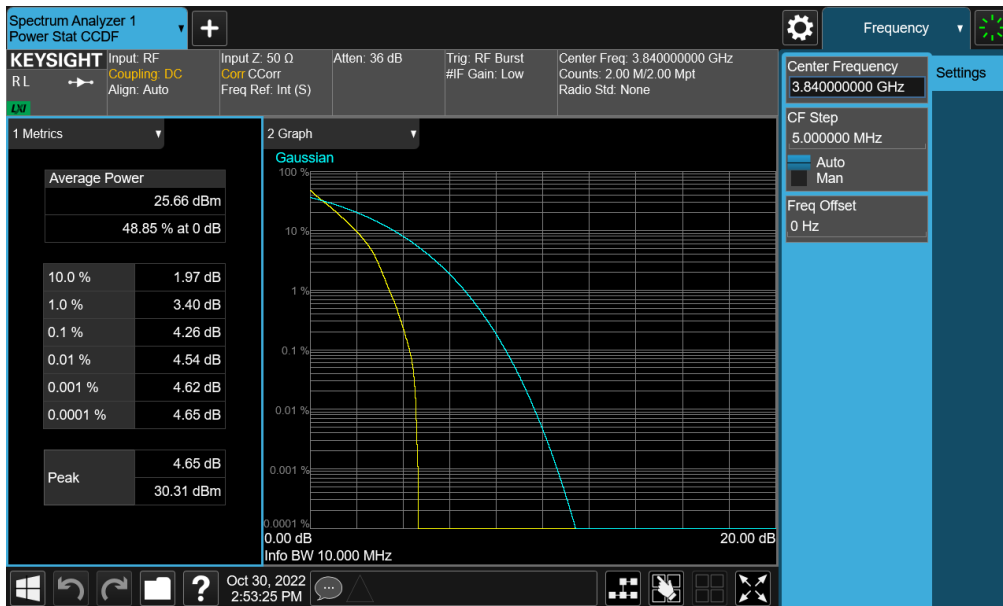
FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 153 of 202



FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 154 of 202



Plot 7-249. PAR Plot (NR Band n77 - C-Band – 15MHz CP-OFDM 256-QAM - Full RB)

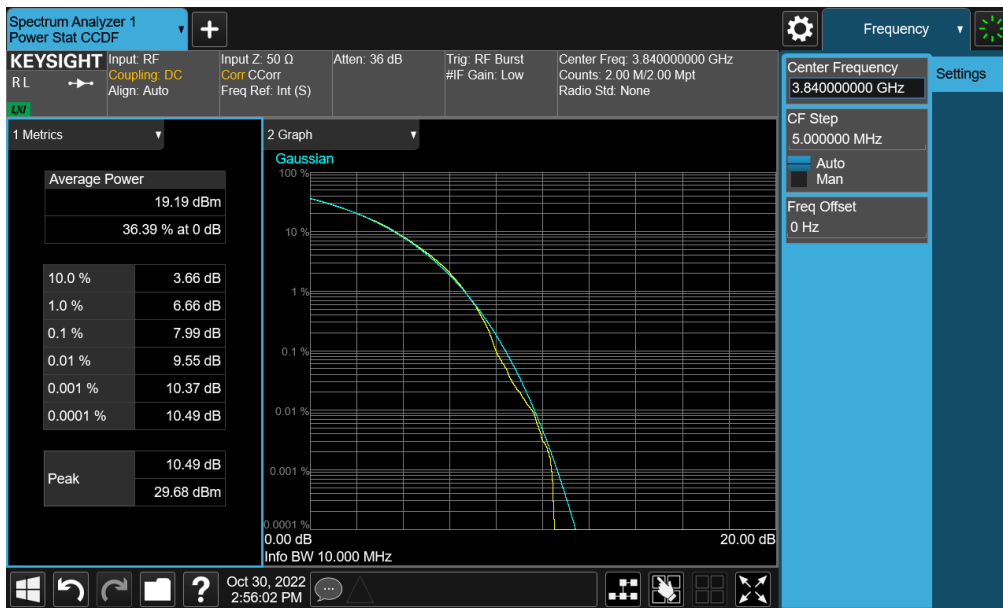


Plot 7-250. PAR Plot (NR Band n77 - C-Band – 10MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 155 of 202



Plot 7-251. PAR Plot (NR Band n77 - C-Band – 10MHz CP-OFDM QPSK - Full RB)



Plot 7-252. PAR Plot (NR Band n77 - C-Band – 10MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 156 of 202



7.7 Radiated Power (EIRP)

Test Overview

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. For signals with burst transmission, the signal analyzer’s “time domain power” measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger is set to “free run” for signals with continuous operation with the sweep times set to “auto”. For signals with pulsed operation, triggering is set to only enable during full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the “gating” function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 157 of 202

Test Setup

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

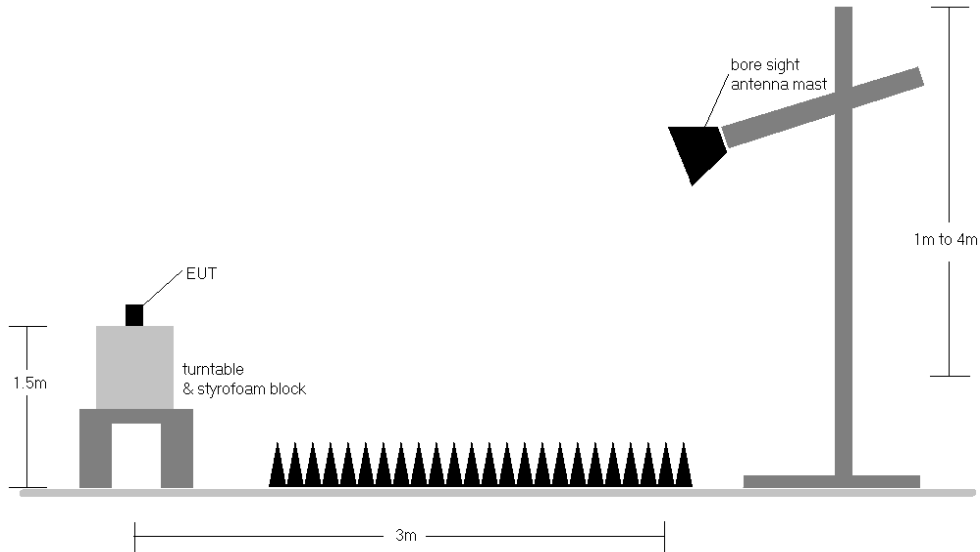


Figure 7-6. Radiated Test Setup >1GHz

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

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 158 of 202



NR Band n77 (PC2) - DoD Band

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [HV]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 204	16.47	24.21	0.263	30.00	-5.79
	QPSK	3500.01	H	191	337	7.74	1 / 204	16.62	24.36	0.273	30.00	-5.64
	16-QAM	3500.01	H	191	337	7.74	1 / 204	15.75	23.49	0.223	30.00	-6.51
90 MHz	$\pi/2$ BPSK	3495.00	H	191	337	7.72	1 / 61	16.55	24.28	0.268	30.00	-5.72
	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 61	16.52	24.26	0.266	30.00	-5.74
	$\pi/2$ BPSK	3504.99	H	191	337	7.71	1 / 61	16.53	24.24	0.265	30.00	-5.76
	QPSK	3495.00	H	191	337	7.72	1 / 61	16.65	24.38	0.274	30.00	-5.62
	QPSK	3500.01	H	191	337	7.74	1 / 61	16.65	24.39	0.275	30.00	-5.61
	QPSK	3504.99	H	191	337	7.71	1 / 61	16.66	24.37	0.273	30.00	-5.63
	16-QAM	3495.00	H	191	337	7.72	1 / 61	15.87	23.60	0.229	30.00	-6.40
80 MHz	$\pi/2$ BPSK	3490.02	H	191	337	7.71	1 / 54	16.66	24.38	0.274	30.00	-5.62
	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 54	16.53	24.27	0.267	30.00	-5.73
	$\pi/2$ BPSK	3510.00	H	191	337	7.68	1 / 54	16.62	24.31	0.270	30.00	-5.69
	QPSK	3490.02	H	191	337	7.71	1 / 54	16.78	24.50	0.282	30.00	-5.50
	QPSK	3500.01	H	191	337	7.74	1 / 54	16.69	24.43	0.277	30.00	-5.57
	QPSK	3510.00	H	191	337	7.68	1 / 54	16.71	24.40	0.275	30.00	-5.60
	16-QAM	3510.00	H	191	337	7.68	1 / 54	15.94	23.63	0.230	30.00	-6.37
70 MHz	$\pi/2$ BPSK	3485.01	H	191	337	7.70	1 / 47	16.75	24.45	0.278	30.00	-5.55
	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 47	16.57	24.31	0.270	30.00	-5.69
	$\pi/2$ BPSK	3514.98	H	191	337	7.66	1 / 141	16.68	24.34	0.271	30.00	-5.66
	QPSK	3485.01	H	191	337	7.70	1 / 47	16.90	24.60	0.288	30.00	-5.40
	QPSK	3500.01	H	191	337	7.74	1 / 47	16.76	24.50	0.282	30.00	-5.50
	QPSK	3514.98	H	191	337	7.66	1 / 141	16.78	24.44	0.278	30.00	-5.56
	16-QAM	3485.01	H	191	337	7.70	1 / 47	16.17	23.87	0.244	30.00	-6.13
60 MHz	$\pi/2$ BPSK	3480.00	H	191	337	7.69	1 / 40	16.79	24.48	0.280	30.00	-5.52
	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 40	16.60	24.34	0.271	30.00	-5.66
	$\pi/2$ BPSK	3519.99	H	191	337	7.63	1 / 121	16.66	24.30	0.269	30.00	-5.70
	QPSK	3480.00	H	191	337	7.69	1 / 81	16.94	24.63	0.290	30.00	-5.37
	QPSK	3500.01	H	191	337	7.74	1 / 81	16.76	24.50	0.282	30.00	-5.50
	QPSK	3519.99	H	191	337	7.63	1 / 81	16.81	24.45	0.278	30.00	-5.55
	16-QAM	3519.99	H	191	337	7.63	1 / 121	16.10	23.74	0.236	30.00	-6.26
50 MHz	$\pi/2$ BPSK	3475.02	H	191	337	7.68	1 / 33	16.81	24.49	0.281	30.00	-5.51
	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 33	16.63	24.37	0.273	30.00	-5.63
	$\pi/2$ BPSK	3525.00	H	191	337	7.61	1 / 33	16.65	24.26	0.266	30.00	-5.74
	QPSK	3475.02	H	191	337	7.68	1 / 33	17.00	24.68	0.294	30.00	-5.32
	QPSK	3500.01	H	191	337	7.74	1 / 33	16.79	24.53	0.284	30.00	-5.47
	QPSK	3525.00	H	191	337	7.61	1 / 33	16.78	24.39	0.275	30.00	-5.61
	16-QAM	3500.01	H	191	337	7.74	1 / 99	16.67	24.41	0.276	30.00	-5.59

Table 7-18. EIRP Data (NR Band n77 - DoD Band – 50MHz-100MHz Bandwidths – SRS-1)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 159 of 202



Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3470.01	H	191	337	7.66	1 / 26	17.03	24.70	0.295	30.00	-5.30
	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 26	16.92	24.66	0.292	30.00	-5.34
	$\pi/2$ BPSK	3529.98	H	191	337	7.58	1 / 26	17.00	24.59	0.288	30.00	-5.41
	QPSK	3470.01	H	191	337	7.66	1 / 26	17.19	24.86	0.306	30.00	-5.14
	QPSK	3500.01	H	191	337	7.74	1 / 26	17.04	24.78	0.300	30.00	-5.22
	QPSK	3529.98	H	191	337	7.58	1 / 26	17.11	24.70	0.295	30.00	-5.30
	16-QAM	3470.01	H	191	337	7.66	1 / 26	16.30	23.97	0.249	30.00	-6.03
30 MHz	$\pi/2$ BPSK	3465.00	H	191	337	7.65	1 / 58	17.00	24.65	0.292	30.00	-5.35
	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 19	16.86	24.60	0.288	30.00	-5.40
	$\pi/2$ BPSK	3534.99	H	191	337	7.56	1 / 58	17.08	24.64	0.291	30.00	-5.36
	QPSK	3465.00	H	191	337	7.65	1 / 19	17.16	24.81	0.302	30.00	-5.19
	QPSK	3500.01	H	191	337	7.74	1 / 58	17.03	24.77	0.300	30.00	-5.23
	QPSK	3534.99	H	191	337	7.56	1 / 58	17.18	24.74	0.298	30.00	-5.26
	16-QAM	3465.00	H	191	337	7.65	1 / 19	16.30	23.95	0.248	30.00	-6.05
25 MHz	$\pi/2$ BPSK	3462.51	H	191	337	7.65	1 / 48	16.97	24.62	0.290	30.00	-5.38
	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 48	16.89	24.63	0.290	30.00	-5.37
	$\pi/2$ BPSK	3537.48	H	191	337	7.54	1 / 16	16.82	24.37	0.273	30.00	-5.63
	QPSK	3462.51	H	191	337	7.65	1 / 48	17.12	24.77	0.300	30.00	-5.23
	QPSK	3500.01	H	191	337	7.74	1 / 48	17.00	24.74	0.298	30.00	-5.26
	QPSK	3537.48	H	191	337	7.54	1 / 48	16.97	24.52	0.283	30.00	-5.48
	16-QAM	3500.01	H	191	337	7.74	1 / 16	16.15	23.89	0.245	30.00	-6.11
20 MHz	$\pi/2$ BPSK	3460.02	H	191	337	7.64	1 / 37	17.00	24.64	0.291	30.00	-5.36
	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 37	16.73	24.47	0.280	30.00	-5.53
	$\pi/2$ BPSK	3540.00	H	191	337	7.53	1 / 37	16.95	24.48	0.280	30.00	-5.52
	QPSK	3460.02	H	191	337	7.64	1 / 37	17.18	24.82	0.303	30.00	-5.18
	QPSK	3500.01	H	191	337	7.74	1 / 37	16.88	24.62	0.290	30.00	-5.38
	QPSK	3540.00	H	191	337	7.53	1 / 37	17.09	24.62	0.290	30.00	-5.38
	16-QAM	3460.02	H	191	337	7.64	1 / 37	16.21	23.85	0.242	30.00	-6.15
15 MHz	$\pi/2$ BPSK	3457.50	H	191	337	7.63	1 / 19	16.91	24.55	0.285	30.00	-5.45
	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 28	16.72	24.46	0.279	30.00	-5.54
	$\pi/2$ BPSK	3542.49	H	191	337	7.52	1 / 28	16.93	24.45	0.278	30.00	-5.55
	QPSK	3457.50	H	191	337	7.63	1 / 19	17.05	24.69	0.294	30.00	-5.31
	QPSK	3500.01	H	191	337	7.74	1 / 19	16.85	24.59	0.288	30.00	-5.41
	QPSK	3542.49	H	191	337	7.52	1 / 28	17.08	24.60	0.288	30.00	-5.40
	16-QAM	3457.50	H	191	337	7.63	1 / 19	16.23	23.87	0.244	30.00	-6.13
10 MHz	$\pi/2$ BPSK	3455.01	H	191	337	7.63	1 / 6	16.84	24.47	0.280	30.00	-5.53
	$\pi/2$ BPSK	3500.01	H	191	337	7.74	1 / 6	16.68	24.42	0.276	30.00	-5.58
	$\pi/2$ BPSK	3544.98	H	191	337	7.50	1 / 17	17.00	24.51	0.282	30.00	-5.49
	QPSK	3455.01	H	191	337	7.63	1 / 6	17.03	24.66	0.292	30.00	-5.34
	QPSK	3500.01	H	191	337	7.74	1 / 6	16.81	24.55	0.285	30.00	-5.45
	QPSK	3544.98	H	191	337	7.50	1 / 17	17.14	24.65	0.292	30.00	-5.35
	16-QAM	3455.01	H	191	337	7.63	1 / 6	16.32	23.95	0.248	30.00	-6.05
100 MHz	QPSK (CP-OFDM)	3500.01	H	179	341	7.74	1 / 204	14.15	21.89	0.154	30.00	-8.11
	QPSK (Opposite Pol.)	3500.01	V	342	7	7.74	1 / 204	14.58	22.32	0.170	30.00	-7.68
	QPSK (WCP)	3500.01	H	162	335	7.74	1 / 204	15.07	22.81	0.191	30.00	-7.19

Table 7-19. EIRP Data (NR Band n77 - DoD Band – 10MHz-40MHz Bandwidths – SRS-1)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 160 of 202

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3500.01	H	108	45	7.74	1 / 204	11.11	18.85	0.077	30.00	-11.15
	QPSK	3500.01	H	108	45	7.74	1 / 204	11.68	19.42	0.087	30.00	-10.58
	16-QAM	3500.01	H	108	45	7.74	1 / 204	9.75	17.49	0.056	30.00	-12.51
100 MHz	QPSK (CP-OFDM)	3500.01	H	108	45	7.74	1/204	10.42	18.16	0.065	30.00	-11.84
	QPSK (Opposite Pol.)	3500.01	V	110	95	7.16	1/204	10.90	18.06	0.064	30.00	-11.94

Table 7-20. EIRP Data (NR Band n77 - DoD Band – SRS-2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3500.01	H	217	325	7.74	1 / 68	11.10	18.84	0.076	30.00	-11.16
	QPSK	3500.01	H	217	325	7.74	1 / 68	10.75	18.49	0.071	30.00	-11.51
	16-QAM	3500.01	H	217	325	7.74	1 / 68	9.06	16.80	0.048	30.00	-13.20
100 MHz	QPSK (CP-OFDM)	3500.01	H	217	325	7.74	1/136	11.02	18.76	0.075	30.00	-11.24
	QPSK (Opposite Pol.)	3500.01	V	207	8	7.74	1/68	6.27	14.01	0.025	30.00	-15.99

Table 7-21. EIRP Data (NR Band n77 - DoD Band – SRS-3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3500.01	H	128	36	7.74	1 / 136	6.72	14.46	0.028	30.00	-15.54
	QPSK	3500.01	H	128	36	7.74	1 / 136	6.32	14.06	0.025	30.00	-15.94
	16-QAM	3500.01	H	128	36	7.74	1 / 136	5.77	13.51	0.022	30.00	-16.49
100 MHz	QPSK (CP-OFDM)	3500.01	H	128	36	7.74	1/204	6.67	14.41	0.028	30.00	-15.59
	QPSK (Opposite Pol.)	3500.01	V	112	336	7.74	1/68	3.93	11.67	0.015	30.00	-18.33

Table 7-22. EIRP Data (NR Band n77 - DoD Band – SRS-4)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 161 of 202

NR Band n77 (PC2) - C-Band

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.00	H	198	350	5.98	1 / 136	19.35	25.33	0.341	30.00	-4.67
	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 136	17.32	23.34	0.216	30.00	-6.66
	$\pi/2$ BPSK	3930.00	H	124	347	5.99	1 / 68	16.41	22.40	0.174	30.00	-7.60
	QPSK	3750.00	H	198	350	5.98	1 / 136	19.07	25.05	0.320	30.00	-4.95
	QPSK	3840.00	H	169	345	6.02	1 / 68	17.43	23.45	0.221	30.00	-6.55
	QPSK	3930.00	H	124	347	5.99	1 / 68	16.58	22.57	0.181	30.00	-7.43
90 MHz	16-QAM	3750.00	H	198	350	5.98	1 / 68	18.44	24.42	0.277	30.00	-5.58
	$\pi/2$ BPSK	3745.02	H	198	350	5.99	1 / 183	19.27	25.26	0.336	30.00	-4.74
	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 122	17.23	23.25	0.211	30.00	-6.75
	$\pi/2$ BPSK	3934.98	H	124	347	6.02	1 / 61	16.48	22.50	0.178	30.00	-7.50
	QPSK	3745.02	H	198	350	5.99	1 / 183	19.03	25.02	0.318	30.00	-4.98
	QPSK	3840.00	H	169	345	6.02	1 / 122	17.35	23.37	0.217	30.00	-6.63
80 MHz	QPSK	3934.98	H	124	347	6.02	1 / 122	16.67	22.69	0.186	30.00	-7.31
	16-QAM	3840.00	H	169	345	6.02	1 / 122	16.54	22.56	0.180	30.00	-7.44
	$\pi/2$ BPSK	3740.01	H	198	350	5.99	1 / 162	19.34	25.33	0.341	30.00	-4.67
	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 108	17.34	23.36	0.217	30.00	-6.64
	$\pi/2$ BPSK	3939.99	H	124	347	6.04	1 / 54	16.39	22.44	0.175	30.00	-7.56
	QPSK	3740.01	H	198	350	5.99	1 / 162	19.07	25.06	0.321	30.00	-4.94
70 MHz	QPSK	3840.00	H	169	345	6.02	1 / 108	17.49	23.51	0.224	30.00	-6.49
	QPSK	3939.99	H	124	347	6.04	1 / 108	16.56	22.61	0.182	30.00	-7.39
	16-QAM	3740.01	H	198	350	5.99	1 / 162	18.49	24.48	0.281	30.00	-5.52
	$\pi/2$ BPSK	3735.00	H	198	350	6.00	1 / 141	19.19	25.19	0.330	30.00	-4.81
	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 94	17.35	23.37	0.217	30.00	-6.63
	$\pi/2$ BPSK	3945.00	H	124	347	6.07	1 / 94	16.34	22.42	0.174	30.00	-7.58
60 MHz	QPSK	3735.00	H	198	350	6.00	1 / 141	18.95	24.95	0.313	30.00	-5.05
	QPSK	3840.00	H	169	345	6.02	1 / 94	17.51	23.53	0.225	30.00	-6.47
	QPSK	3945.00	H	124	347	6.07	1 / 94	16.49	22.57	0.181	30.00	-7.43
	16-QAM	3735.00	H	198	350	6.00	1 / 141	18.58	24.58	0.287	30.00	-5.42
	$\pi/2$ BPSK	3730.02	H	198	350	6.00	1 / 121	19.28	25.28	0.337	30.00	-4.72
	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 121	17.40	23.42	0.220	30.00	-6.58
50 MHz	$\pi/2$ BPSK	3949.98	H	124	347	6.10	1 / 40	16.44	22.54	0.179	30.00	-7.46
	QPSK	3730.02	H	198	350	6.00	1 / 121	19.08	25.08	0.322	30.00	-4.92
	QPSK	3840.00	H	169	345	6.02	1 / 121	17.57	23.59	0.229	30.00	-6.41
	QPSK	3949.98	H	124	347	6.10	1 / 40	16.58	22.68	0.185	30.00	-7.32
	16-QAM	3730.02	H	198	350	6.00	1 / 121	18.55	24.55	0.285	30.00	-5.45
	$\pi/2$ BPSK	3725.01	H	198	350	6.01	1 / 66	19.21	25.22	0.333	30.00	-4.78
50 MHz	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 99	17.45	23.47	0.222	30.00	-6.53
	$\pi/2$ BPSK	3954.99	H	124	347	6.13	1 / 99	16.72	22.85	0.193	30.00	-7.15
	QPSK	3725.01	H	198	350	6.01	1 / 99	19.01	25.02	0.318	30.00	-4.98
	QPSK	3840.00	H	169	345	6.02	1 / 99	17.59	23.61	0.230	30.00	-6.39
	QPSK	3954.99	H	124	347	6.13	1 / 99	16.86	22.99	0.199	30.00	-7.01
	16-QAM	3840.00	H	169	345	6.02	1 / 99	16.61	22.63	0.183	30.00	-7.37

Table 7-23. EIRP Data (NR Band n77 – C-Band – 50MHz-100MHz Bandwidths – SRS-1)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 162 of 202



Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3720.00	H	198	350	6.01	1 / 79	19.57	25.58	0.361	30.00	-4.42
	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 79	17.65	23.67	0.233	30.00	-6.33
	$\pi/2$ BPSK	3960.00	H	124	347	6.15	1 / 79	16.79	22.94	0.197	30.00	-7.06
	QPSK	3720.00	H	198	350	6.01	1 / 79	19.34	25.35	0.343	30.00	-4.65
	QPSK	3840.00	H	169	345	6.02	1 / 79	17.79	23.81	0.240	30.00	-6.19
	QPSK	3960.00	H	124	347	6.15	1 / 79	16.86	23.01	0.200	30.00	-6.99
30 MHz	16-QAM	3840.00	H	169	345	6.02	1 / 79	16.89	22.91	0.195	30.00	-7.09
	$\pi/2$ BPSK	3715.02	H	198	350	6.02	1 / 58	19.46	25.48	0.353	30.00	-4.52
	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 19	17.69	23.71	0.235	30.00	-6.29
	$\pi/2$ BPSK	3964.98	H	124	347	6.18	1 / 58	16.82	23.00	0.199	30.00	-7.00
	QPSK	3715.02	H	198	350	6.02	1 / 58	19.25	25.27	0.337	30.00	-4.73
	QPSK	3840.00	H	169	345	6.02	1 / 19	17.79	23.81	0.240	30.00	-6.19
25 MHz	QPSK	3964.98	H	124	347	6.18	1 / 58	16.94	23.12	0.205	30.00	-6.88
	16-QAM	3840.00	H	169	345	6.02	1 / 58	16.78	22.80	0.191	30.00	-7.20
	$\pi/2$ BPSK	3712.50	H	198	350	6.03	1 / 16	19.36	25.39	0.346	30.00	-4.61
	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 48	17.53	23.55	0.226	30.00	-6.45
	$\pi/2$ BPSK	3967.50	H	124	347	6.20	1 / 16	16.61	22.81	0.191	30.00	-7.19
	QPSK	3712.50	H	198	350	6.03	1 / 16	19.11	25.14	0.327	30.00	-4.86
20 MHz	QPSK	3840.00	H	169	345	6.02	1 / 48	17.58	23.60	0.229	30.00	-6.40
	QPSK	3967.50	H	124	347	6.20	1 / 16	16.79	22.99	0.199	30.00	-7.01
	16-QAM	3840.00	H	169	345	6.02	1 / 48	16.63	22.65	0.184	30.00	-7.35
	$\pi/2$ BPSK	3710.01	H	198	350	6.03	1 / 37	19.47	25.50	0.355	30.00	-4.50
	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 37	17.60	23.62	0.230	30.00	-6.38
	$\pi/2$ BPSK	3969.99	H	124	347	6.20	1 / 37	16.66	22.86	0.193	30.00	-7.14
15 MHz	QPSK	3710.01	H	198	350	6.03	1 / 37	19.20	25.23	0.333	30.00	-4.77
	QPSK	3840.00	H	169	345	6.02	1 / 37	17.75	23.77	0.238	30.00	-6.23
	QPSK	3969.99	H	124	347	6.20	1 / 13	16.77	22.97	0.198	30.00	-7.03
	16-QAM	3710.01	H	198	350	6.03	1 / 37	18.62	24.65	0.292	30.00	-5.35
	$\pi/2$ BPSK	3707.52	H	198	350	6.03	1 / 28	19.40	25.43	0.349	30.00	-4.57
	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 28	17.55	23.57	0.227	30.00	-6.43
10 MHz	$\pi/2$ BPSK	3972.48	H	124	347	6.21	1 / 9	16.62	22.83	0.192	30.00	-7.17
	QPSK	3707.52	H	198	350	6.03	1 / 28	19.18	25.21	0.332	30.00	-4.79
	QPSK	3840.00	H	169	345	6.02	1 / 28	17.72	23.74	0.237	30.00	-6.26
	QPSK	3972.48	H	124	347	6.21	1 / 19	16.77	22.98	0.199	30.00	-7.02
	16-QAM	3707.52	H	198	350	6.03	1 / 28	18.66	24.69	0.295	30.00	-5.31
	$\pi/2$ BPSK	3705.00	H	198	350	6.03	1 / 17	19.25	25.28	0.337	30.00	-4.72
100 MHz	$\pi/2$ BPSK	3840.00	H	169	345	6.02	1 / 12	17.48	23.50	0.224	30.00	-6.50
	$\pi/2$ BPSK	3975.00	H	124	347	6.22	1 / 6	16.45	22.68	0.185	30.00	-7.32
	QPSK	3705.00	H	198	350	6.03	1 / 17	19.04	25.07	0.321	30.00	-4.93
	QPSK	3840.00	H	169	345	6.02	1 / 12	17.63	23.65	0.232	30.00	-6.35
	QPSK	3975.00	H	124	347	6.22	1 / 6	16.63	22.86	0.193	30.00	-7.14
	16-QAM	3705.00	H	198	350	6.03	1 / 6	18.50	24.53	0.284	30.00	-5.47
100 MHz	QPSK (CP-OFDM)	3750.00	H	244	335	5.98	1 / 136	18.29	24.27	0.267	30.00	-5.73
	QPSK (Opposite Pol.)	3750.00	V	133	347	6.83	1 / 204	16.44	23.27	0.213	30.00	-6.73
	QPSK (WCP)	3750.00	H	133	338	5.98	1 / 68	17.67	23.65	0.232	30.00	-6.35

Table 7-24. EIRP Data (NR Band n77 – C-Band – 10MHz-40MHz Bandwidths – SRS-1)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 163 of 202

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.00	H	102	43	5.98	273 / 0	11.69	17.67	0.058	30.00	-12.33
	$\pi/2$ BPSK	3840.00	H	104	41	6.02	1 / 68	13.24	19.26	0.084	30.00	-10.74
	$\pi/2$ BPSK	3930.00	H	112	37	5.99	1 / 68	11.20	17.19	0.052	30.00	-12.81
	QPSK	3750.00	H	102	43	5.98	273 / 0	11.33	17.31	0.054	30.00	-12.69
	QPSK	3840.00	H	104	41	6.02	1 / 68	12.57	18.59	0.072	30.00	-11.41
	QPSK	3930.00	H	112	37	5.99	1 / 68	10.48	16.47	0.044	30.00	-13.53
100 MHz	16-QAM	3840.00	H	104	41	6.02	1 / 68	11.62	17.64	0.058	30.00	-12.36
	QPSK (CP-OFDM)	3840.00	H	104	41	6.02	1/136	10.70	16.72	0.047	30.00	-13.28
	QPSK (Opposite Pol.)	3840.00	V	103	96	6.47	1/68	10.78	17.25	0.053	30.00	-12.75

Table 7-25. EIRP Data (NR Band n77 - C-Band – SRS-2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.00	H	102	218	5.98	1 / 68	4.58	10.56	0.011	30.00	-19.44
	$\pi/2$ BPSK	3840.00	H	104	227	6.02	1 / 68	6.95	12.97	0.020	30.00	-17.03
	$\pi/2$ BPSK	3930.00	H	102	224	5.99	1 / 68	7.03	13.02	0.020	30.00	-16.98
	QPSK	3750.00	H	102	218	5.98	1 / 68	3.43	9.41	0.009	30.00	-20.59
	QPSK	3840.00	H	104	227	6.02	1 / 68	5.86	11.88	0.015	30.00	-18.12
	QPSK	3930.00	H	102	224	5.99	1 / 68	6.95	12.94	0.020	30.00	-17.06
	16-QAM	3930.00	H	102	224	5.99	1 / 68	6.69	12.68	0.019	30.00	-17.32
100 MHz	QPSK (CP-OFDM)	3840.00	H	102	224	5.99	1/204	6.31	12.30	0.017	30.00	-17.70
	QPSK (Opposite Pol.)	3840.00	V	114	153	6.49	1/68	4.81	11.30	0.014	30.00	-18.70

Table 7-26. EIRP Data (NR Band n77 - C-Band – SRS-3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.00	H	118	39	5.98	1 / 68	7.29	13.27	0.021	30.00	-16.73
	$\pi/2$ BPSK	3840.00	H	125	40	6.02	1 / 136	8.13	14.15	0.026	30.00	-15.85
	$\pi/2$ BPSK	3930.00	H	110	36	5.99	1 / 68	8.44	14.43	0.028	30.00	-15.57
	QPSK	3750.00	H	118	39	5.98	1 / 68	6.66	12.64	0.018	30.00	-17.36
	QPSK	3840.00	H	125	40	6.02	1 / 136	8.65	14.67	0.029	30.00	-15.33
	QPSK	3930.00	H	110	36	5.99	1 / 68	8.16	14.15	0.026	30.00	-15.85
	16-QAM	3840.00	H	125	40	6.02	1 / 136	7.45	13.47	0.022	30.00	-16.53
100 MHz	QPSK (CP-OFDM)	3840.00	H	125	40	6.02	1/204	6.81	12.83	0.019	30.00	-17.17
	QPSK (Opposite Pol.)	3840.00	V	103	331	6.47	270/0	5.80	12.27	0.017	30.00	-17.73

Table 7-27. EIRP Data (NR Band n77 - C-Band – SRS-4)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 164 of 202



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: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 165 of 202

Test Setup

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

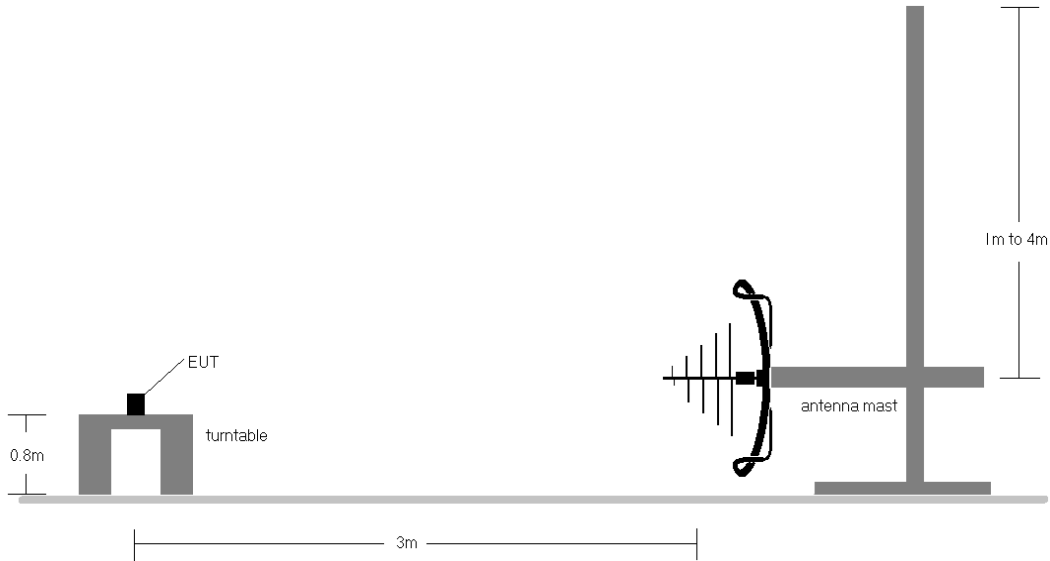


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

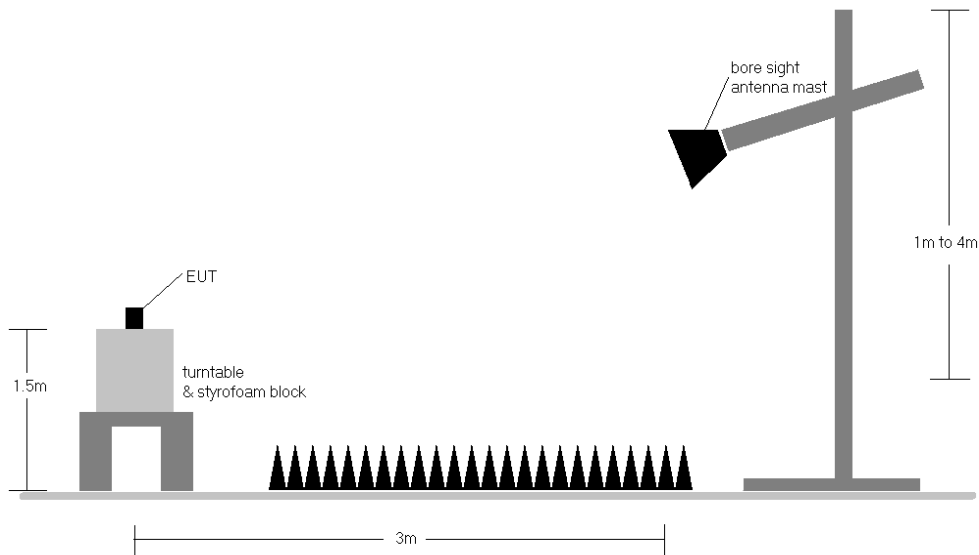


Figure 7-8. Test Instrument & Measurement Setup >1 GHz

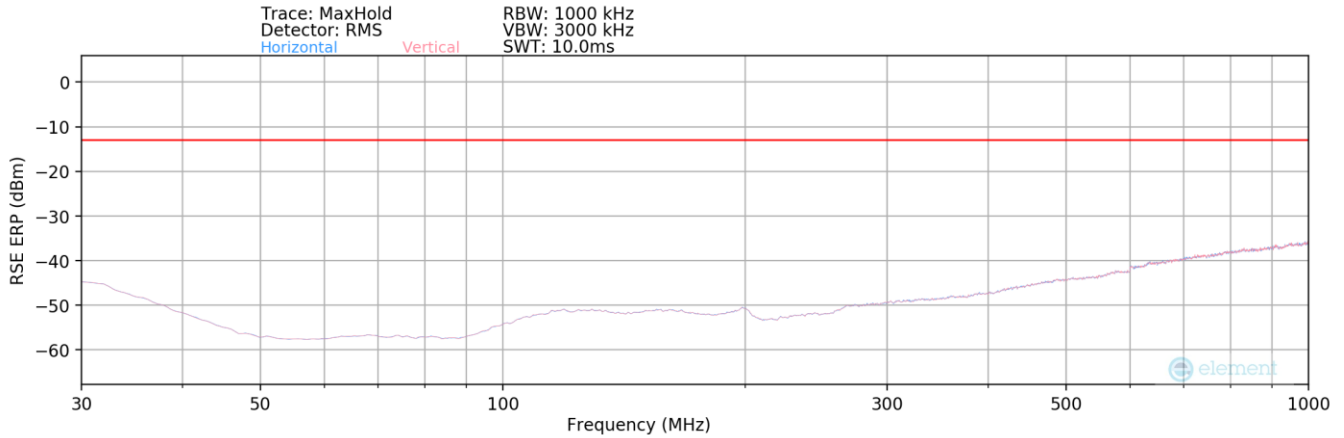
FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 166 of 202

Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - b) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - d) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with regards the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations as shown in the tables in this section.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 8) Spurious emissions shown in this section are measured while operating in EN-DC mode with a sub-6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier 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.
- 9) Spurious emissions with the device transmitting in EN-DC mode were investigated with the NR carrier set to transmit from the worst case antenna in standalone mode (SRS-1).
- 10) For device transmission in EN-DC mode, no significant spurious emissions were found above 18GHz.

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 167 of 202

NR Band n77 (PC2) - DoD Band – SRS-1



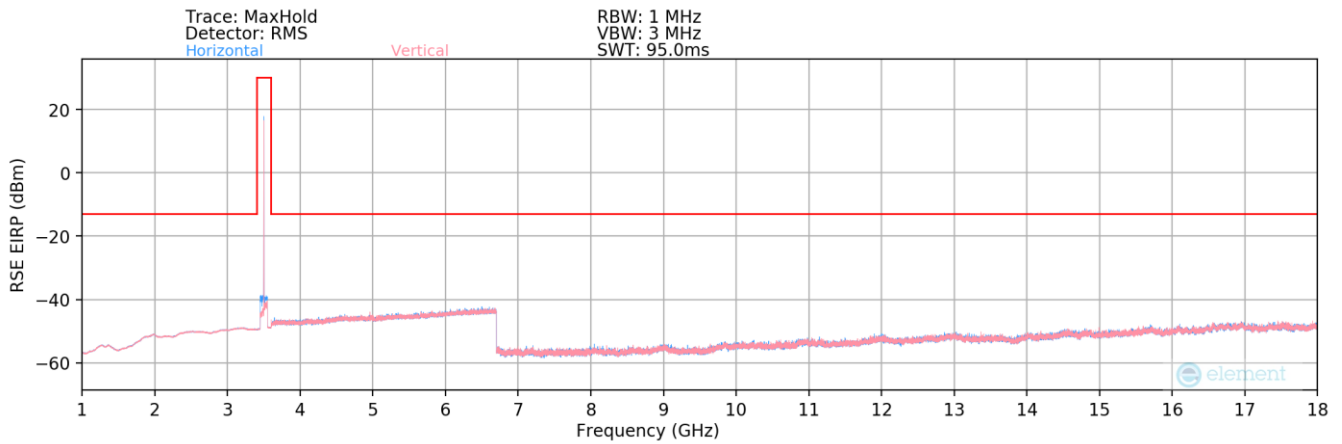
Plot 7-253. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - DoD Band – SRS-1)

Bandwidth (MHz):	50
Frequency (MHz):	3500.01
RB / Offset:	1 / 66

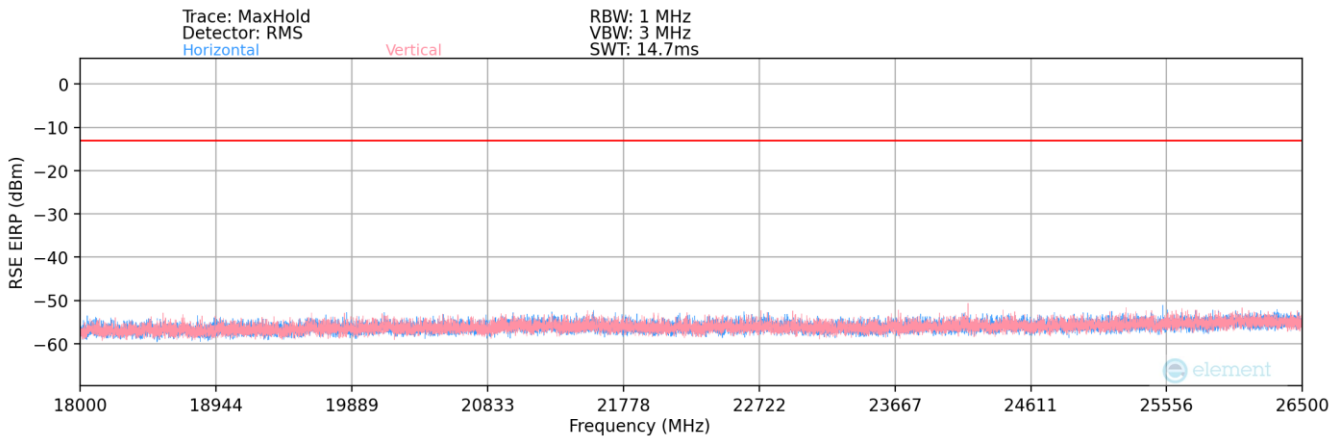
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
119.31	H	-	-	-80.95	20.68	46.73	-50.68	-13.00	-37.68
303.44	H	-	-	-81.06	21.49	47.43	-49.97	-13.00	-36.97
476.20	H	-	-	-80.94	25.40	51.46	-45.95	-13.00	-32.95

Table 7-28. Radiated Spurious Data – Below 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-1)

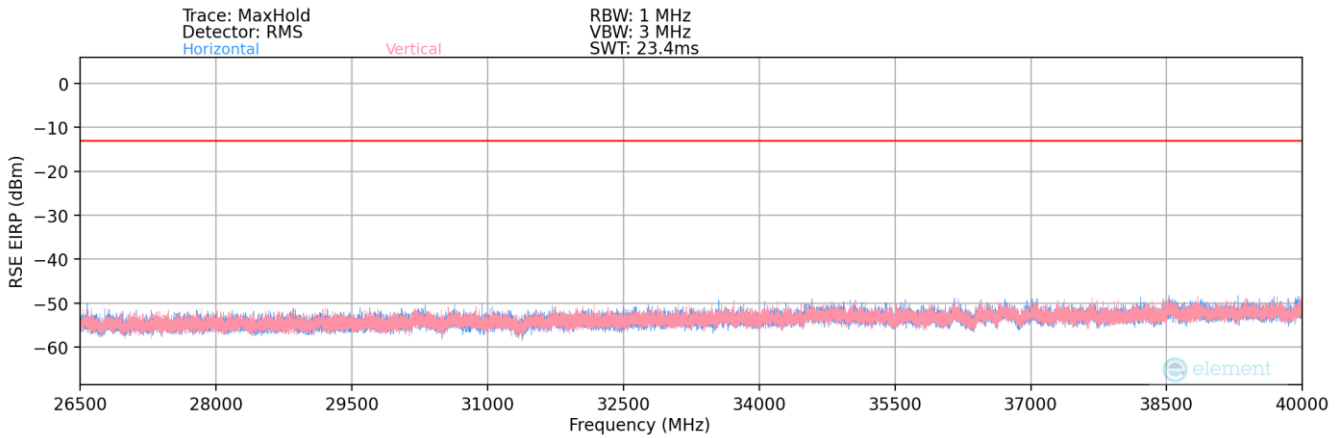
FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 168 of 202



Plot 7-254. Radiated Spurious Plot – 1-18GHz (NR Band n77 - DoD Band – SRS-1)



Plot 7-255. Radiated Spurious Plot – 18-26.5GHz (NR Band n77 - DoD Band – SRS-1)



Plot 7-256. Radiated Spurious Plot – 26.5-40GHz (NR Band n77 - DoD Band – SRS-1)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 169 of 202

Bandwidth (MHz):	50
Frequency (MHz):	3475.02
RB / Offset:	1 / 66
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
6950.04	H	219	219	-74.63	8.20	40.57	-54.69	-13.00	-41.69
10425.06	H	-	-	-78.79	10.84	39.05	-56.21	-13.00	-43.21
13900.08	H	-	-	-79.38	14.24	41.86	-53.40	-13.00	-40.40
17375.10	H	-	-	-79.66	17.98	45.32	-49.94	-13.00	-36.94

Table 7-29. Radiated Spurious Data – Above 1GHz (NR Band n77 - DoD Band – Low Channel – SRS-1)

Bandwidth (MHz):	50
Frequency (MHz):	3500.01
RB / Offset:	1 / 66

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]
7000.02	H	262	250	-74.32	8.08	40.76	-54.50	-13.00	-41.50
10500.03	H	287	10	-73.05	11.37	45.32	-49.94	-13.00	-36.94
14000.04	H	186	47	-73.89	14.28	47.39	-47.86	-13.00	-34.86
17500.05	H	-	-	-78.14	17.11	45.97	-49.29	-13.00	-36.29
21000.06	H	-	-	-57.37	3.47	53.10	-51.70	-13.00	-38.70
24500.07	H	150	358	-55.85	4.31	55.46	-49.34	-13.00	-36.34
28000.08	H	-	-	-58.29	5.18	53.89	-50.91	-13.00	-37.91
31500.09	H	-	-	-59.11	6.73	54.63	-50.17	-13.00	-37.17

Table 7-30. Radiated Spurious Data – Above 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-1)

Bandwidth (MHz):	50
Frequency (MHz):	3525.00
RB / Offset:	1 / 136
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7050.00	H	217	255	-73.81	7.54	40.73	-54.53	-13.00	-41.53
10575.00	H	-	-	-80.03	12.47	39.44	-55.81	-13.00	-42.81
14100.00	H	-	-	-79.44	14.56	42.12	-53.13	-13.00	-40.13
17625.00	H	-	-	-79.56	17.05	44.49	-50.77	-13.00	-37.77

Table 7-31. Radiated Spurious Data – Above 1GHz (NR Band n77 - DoD Band – High Channel – SRS-1)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 170 of 202



Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	50
Frequency (MHz):	3500.01
RB / Offset:	1/136
Mode:	Stand Alone
Anchor Band:	N/A

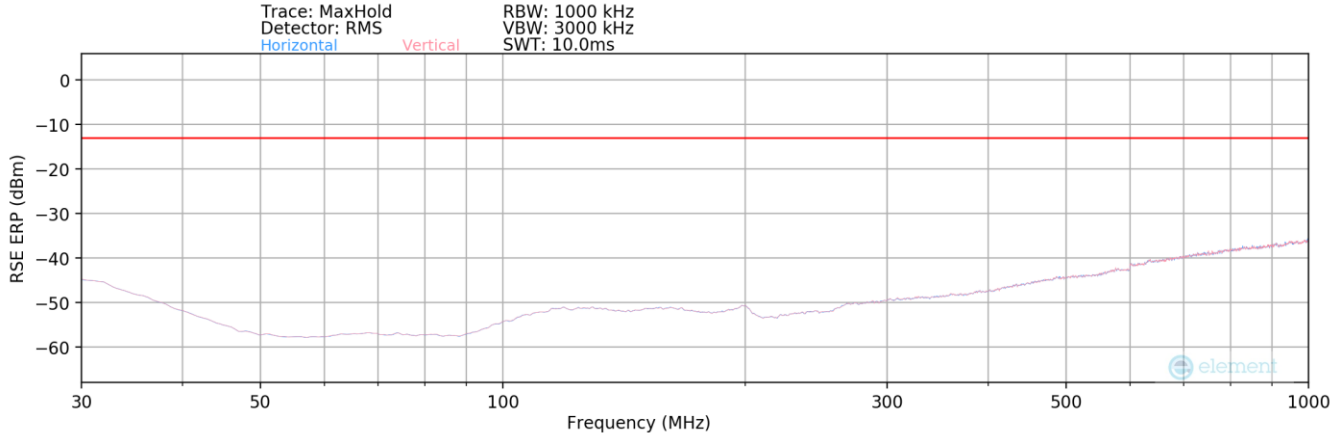
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	H	282	267	-74.95	8.08	40.13	-55.13	-13.00	-42.13
10500.03	H	-	-	-79.04	11.37	39.33	-55.93	-13.00	-42.93
14000.04	H	-	-	-78.68	14.28	42.60	-52.65	-13.00	-39.65
17500.05	H	-	-	-79.93	17.11	44.18	-51.08	-13.00	-38.08

Table 7-32. Radiated Spurious Data w/ Wireless Charging Pad (NR Band n77 – DoD Band – SRS-1)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 171 of 202



NR Band n77 (PC2) - DoD Band – SRS-2



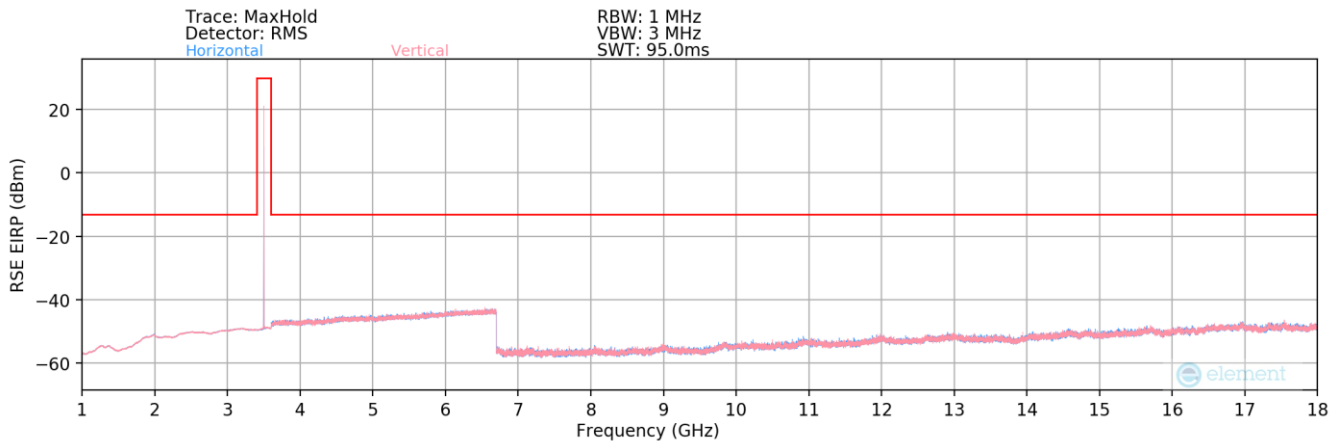
Plot 7-257. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - DoD Band – SRS-2)

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

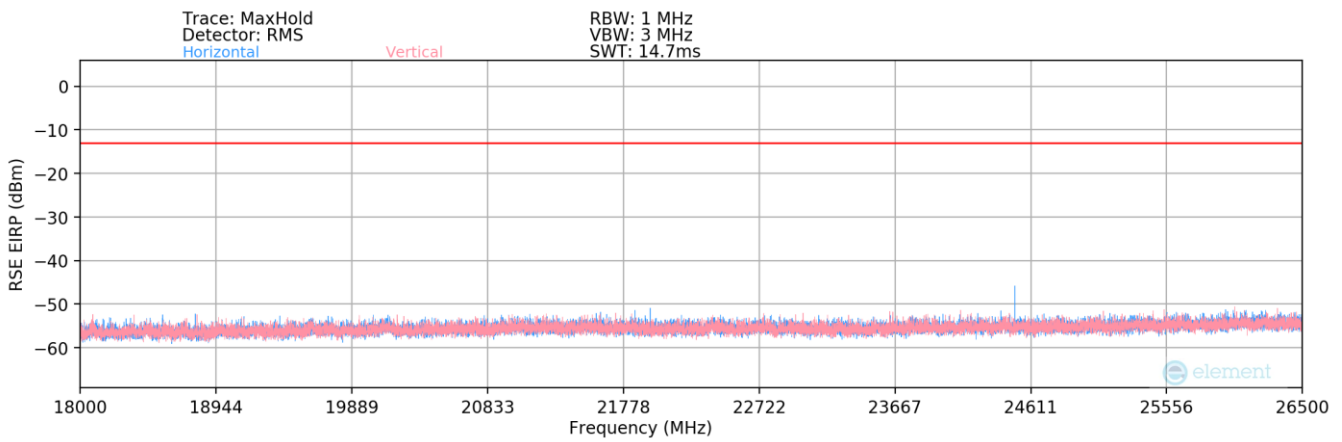
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
622.00	H	-	-	-86.22	27.28	48.06	-49.35	-13.00	-36.35

Table 7-33. Radiated Spurious Data – Below 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-2)

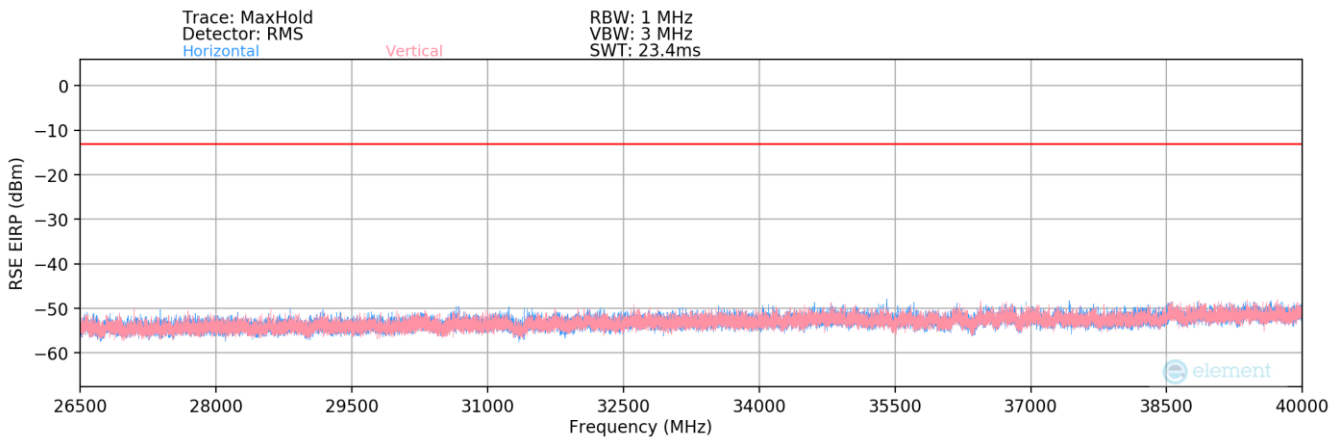
FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 172 of 202



Plot 7-258. Radiated Spurious Plot – 1-18GHz (NR Band n77 - DoD Band – SRS-2)



Plot 7-259. Radiated Spurious Plot – 18-26.5GHz (NR Band n77 - DoD Band – SRS-2)



Plot 7-260. Radiated Spurious Plot – 26.5-40GHz (NR Band n77 - DoD Band – SRS-2)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 173 of 202



Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

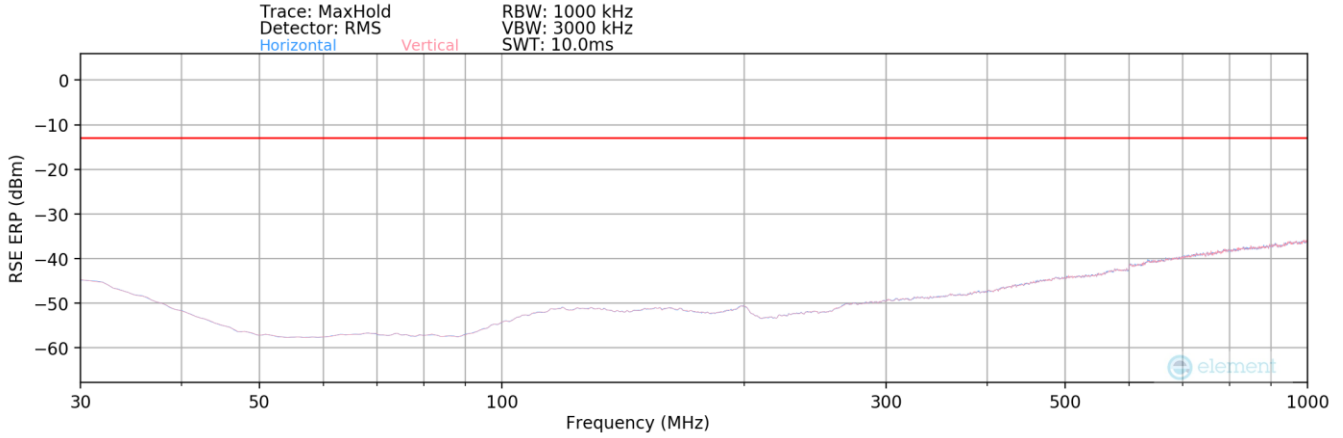
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	H	151	1	-75.21	8.08	39.87	-55.39	-13.00	-42.39
10500.03	H	277	319	-74.50	11.37	43.87	-51.39	-13.00	-38.39
14000.04	H	-	-	-79.49	14.28	41.79	-53.46	-13.00	-40.46
17500.05	H	-	-	-78.56	17.11	45.55	-49.71	-13.00	-36.71

Table 7-34. Radiated Spurious Data – Above 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-2)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 174 of 202



NR Band n77 (PC2) - DoD Band – SRS-3



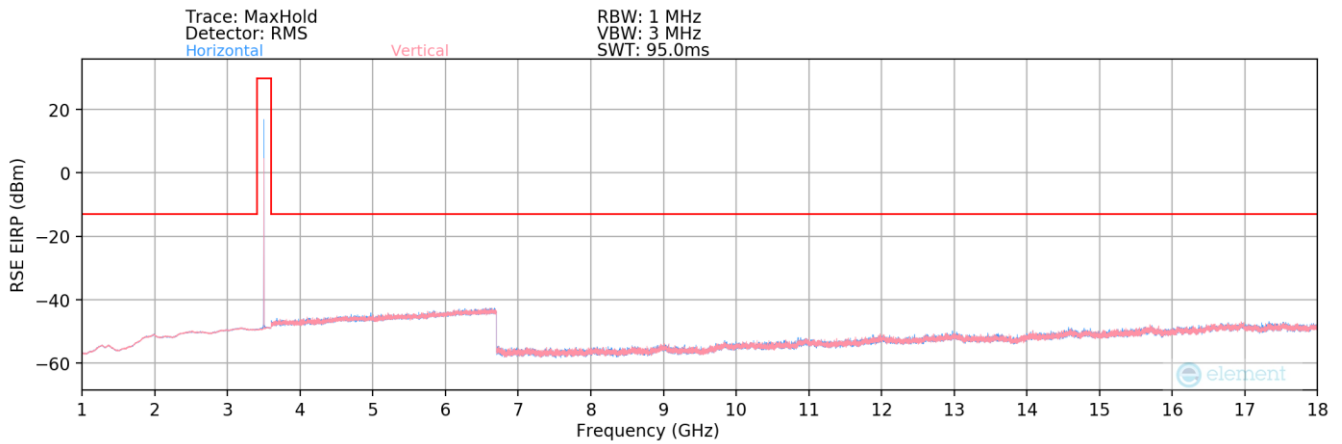
Plot 7-261. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - DoD Band – SRS-3)

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

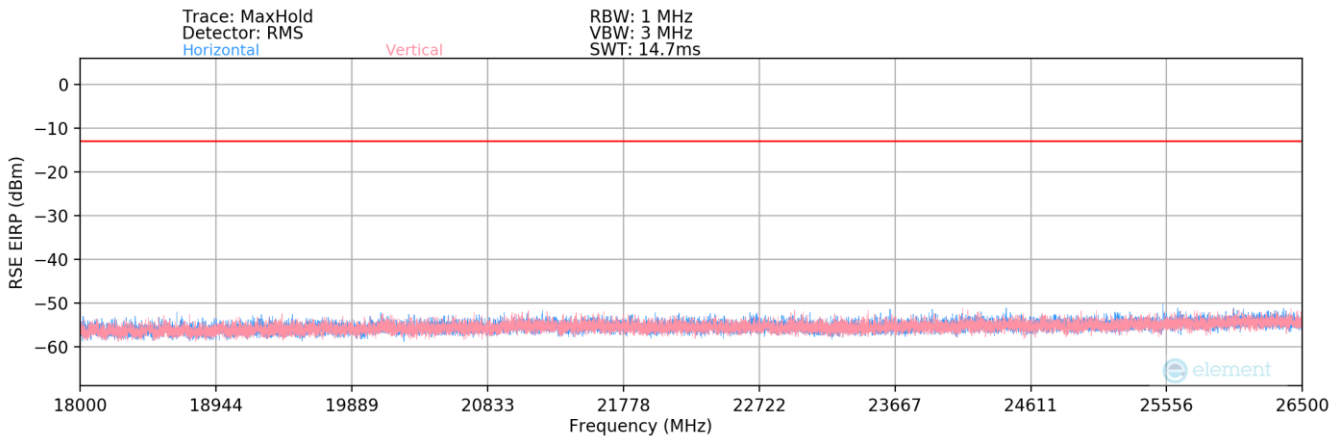
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
896.54	H	-	-	-83.40	31.47	55.07	-42.34	-13.00	-29.34

Table 7-35. Radiated Spurious Data – Below 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-3)

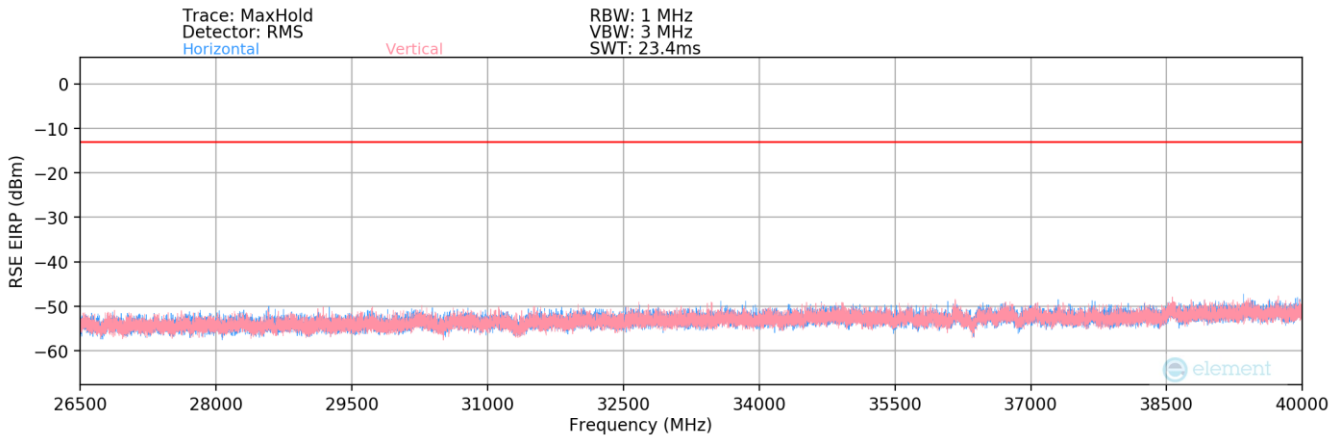
FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 175 of 202



Plot 7-262. Radiated Spurious Plot – 1-18GHz (NR Band n77 - DoD Band – SRS-3)



Plot 7-263. Radiated Spurious Plot – 18-26.5GHz (NR Band n77 - DoD Band – SRS-3)



Plot 7-264. Radiated Spurious Plot – 26.5-40GHz (NR Band n77 - DoD Band – SRS-3)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 176 of 202



Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

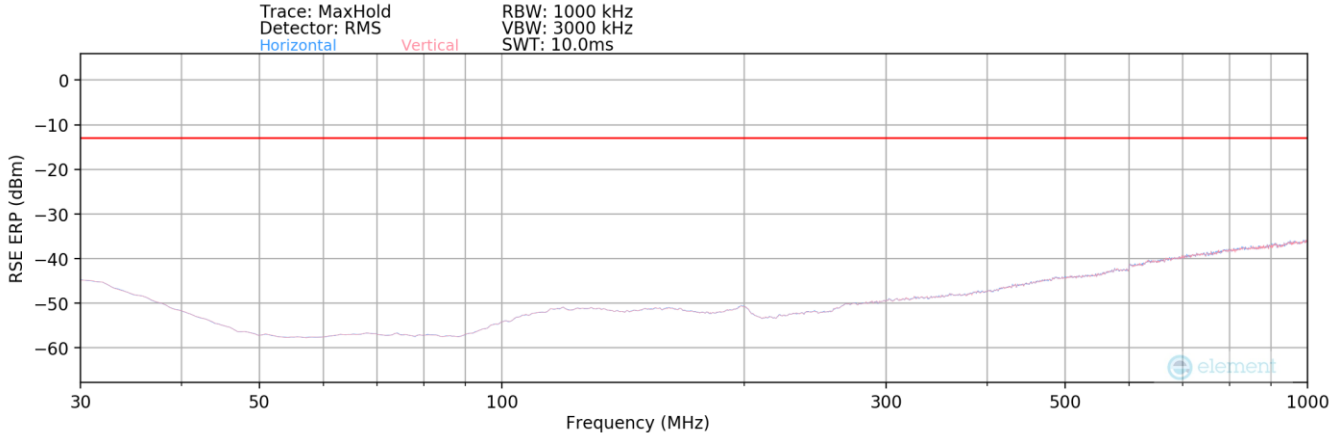
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	H	172	358	-76.64	8.08	38.44	-56.82	-13.00	-43.82
10500.03	H	-	-	-79.05	11.37	39.32	-55.94	-13.00	-42.94
14000.04	H	-	-	-79.69	14.28	41.59	-53.66	-13.00	-40.66
17500.05	H	-	-	-79.37	17.11	44.74	-50.52	-13.00	-37.52

Table 7-36. Radiated Spurious Data – Above 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-3)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 177 of 202



NR Band n77 (PC2) - DoD Band – SRS-4



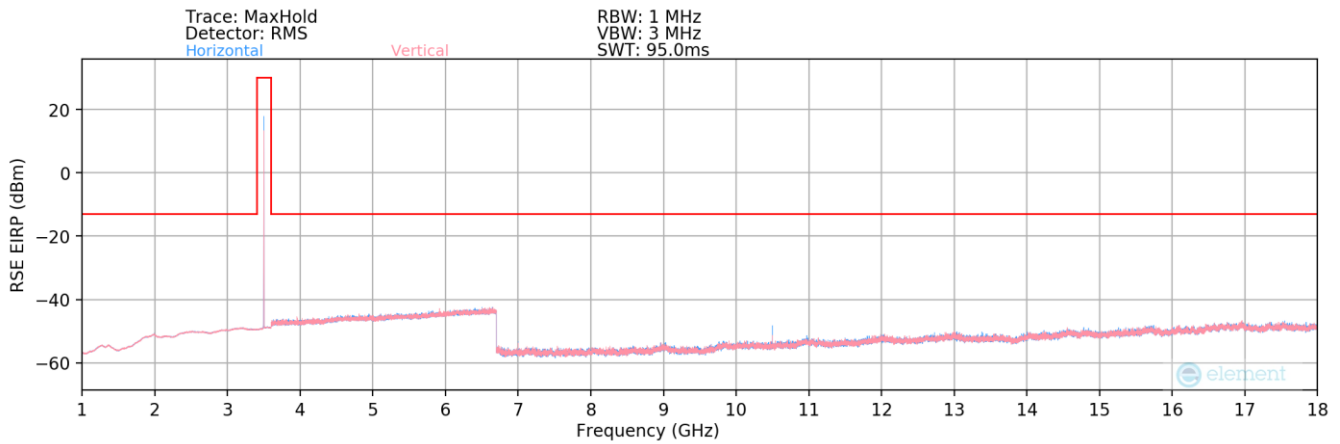
Plot 7-265. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - DoD Band – SRS-4)

Bandwidth (MHz):	100
Frequency (MHz):	3500.00
RB / Offset:	1 / 136

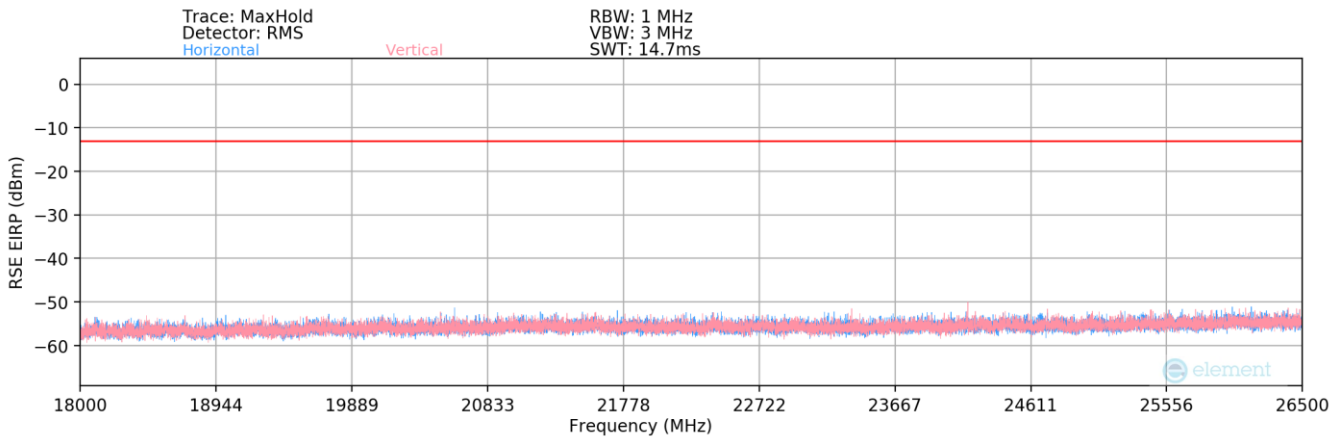
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
904.03	V	-	-	-82.37	31.09	55.72	-41.68	-13.00	-28.68

Table 7-37. Radiated Spurious Data – Below 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-4)

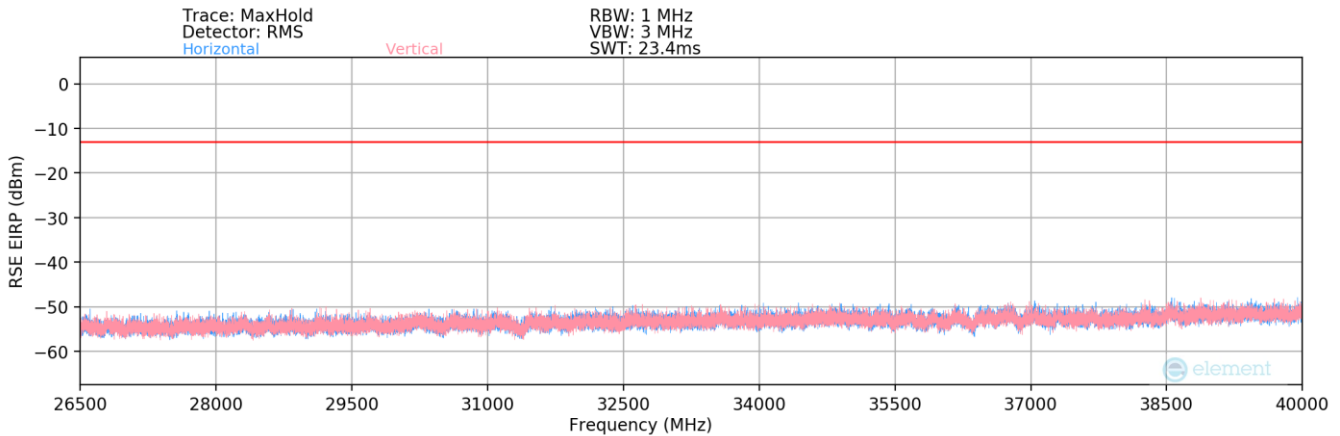
FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 178 of 202



Plot 7-266. Radiated Spurious Plot – 1-18GHz (NR Band n77 - DoD Band – SRS-4)



Plot 7-267. Radiated Spurious Plot – 18-26.5GHz (NR Band n77 - DoD Band – SRS-4)



Plot 7-268. Radiated Spurious Plot – 26.5-40GHz (NR Band n77 - DoD Band – SRS-4)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 179 of 202



Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

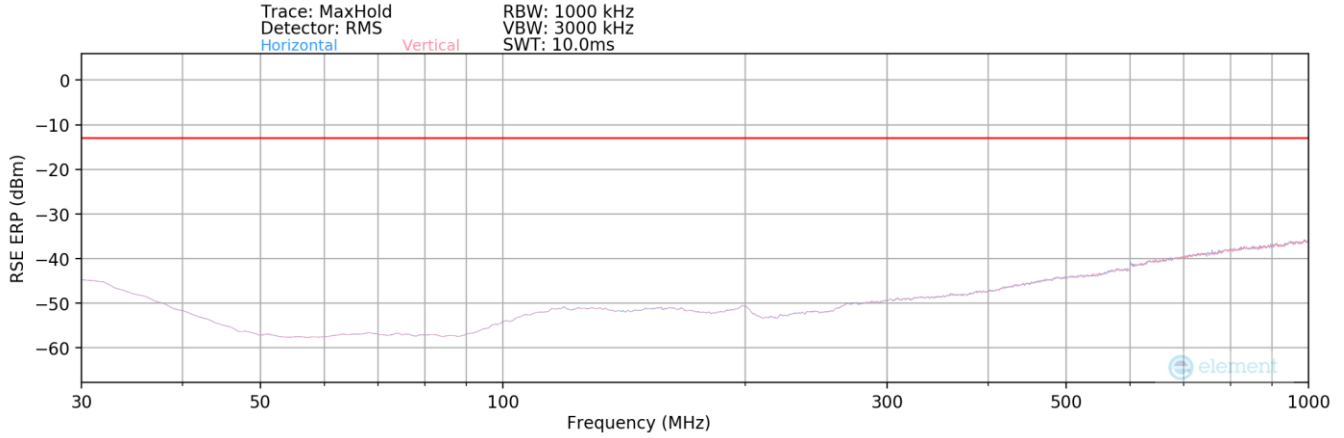
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	V	133	350	-71.64	8.08	43.44	-51.82	-13.00	-38.82
10500.03	V	307	350	-72.68	11.37	45.69	-49.57	-13.00	-36.57
14000.04	V	-	-	-79.44	14.28	41.84	-53.41	-13.00	-40.41
17500.05	V	-	-	-79.20	17.11	44.91	-50.35	-13.00	-37.35

Table 7-38. Radiated Spurious Data – Above 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-4)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 180 of 202



NR Band n77 (PC2) - C-Band – SRS-1



Plot 7-269. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - C-Band – SRS-1)

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
181.97	H	-	-	-80.99	18.63	44.64	-52.77	-13.00	-39.77
485.49	H	-	-	-80.60	25.80	52.20	-45.21	-13.00	-32.21
716.42	H	-	-	-81.56	28.75	54.19	-43.22	-13.00	-30.22

Table 7-39. Radiated Spurious Data – Below 1GHz (NR Band n77 - C-Band – Mid Channel – SRS-1)

FCC ID: A3LSMS916U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-05.A3L	Test Dates: 10/08/2022 - 11/08/2022	EUT Type: Portable Handset	Page 181 of 202