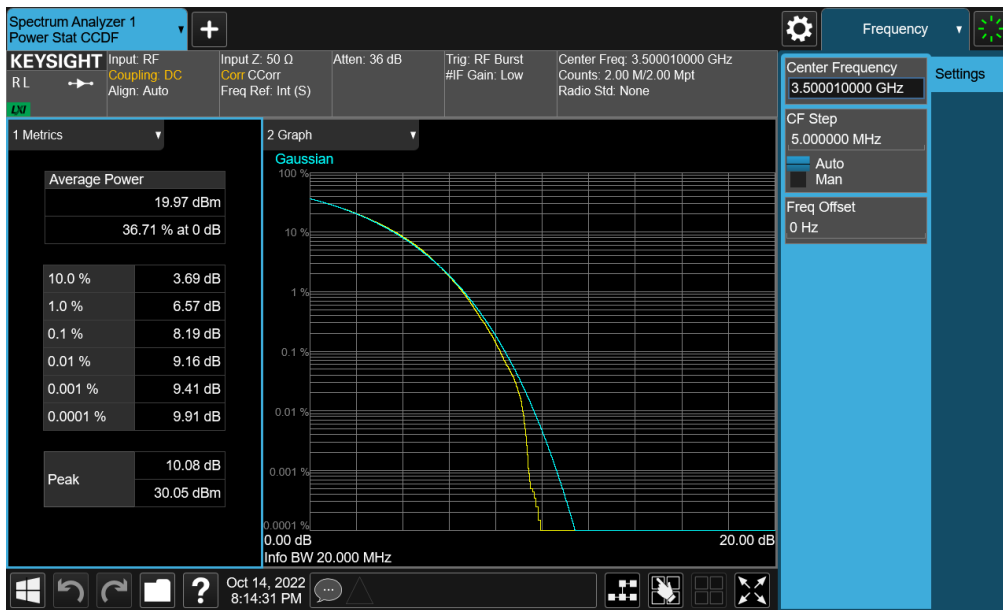
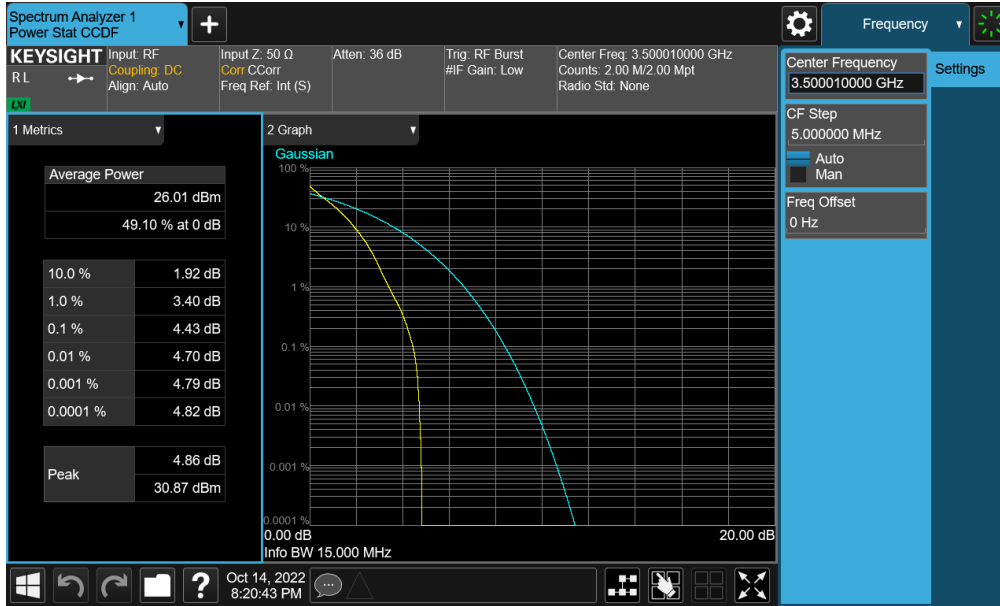


**Plot 7-209. PAR Plot (NR Band n77 - DoD Band – 20MHz CP-OFDM QPSK - Full RB)**

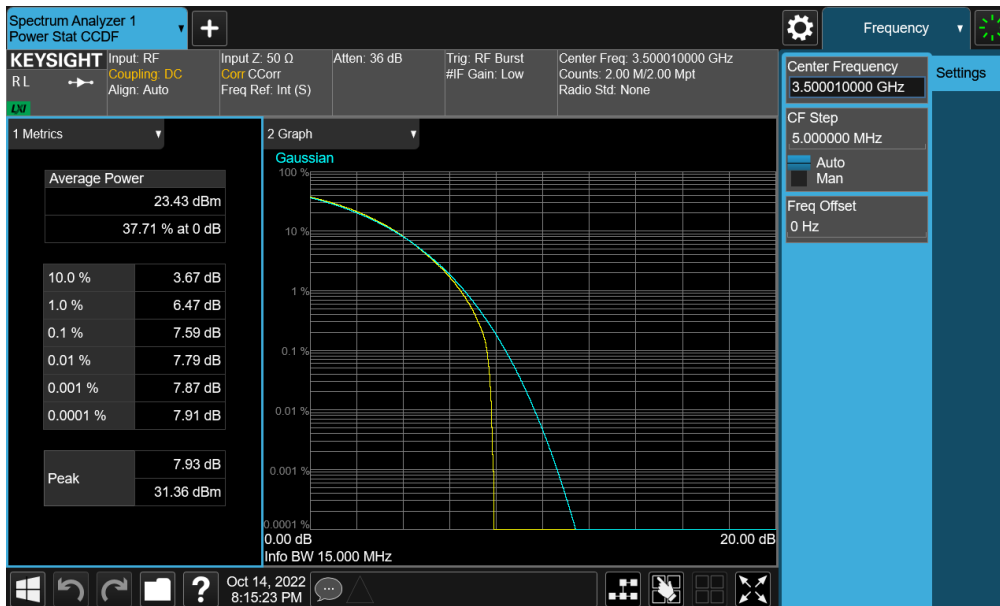


**Plot 7-210. PAR Plot (NR Band n77 - DoD Band – 20MHz CP-OFDM 256-QAM - Full RB)**

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 134 of 199

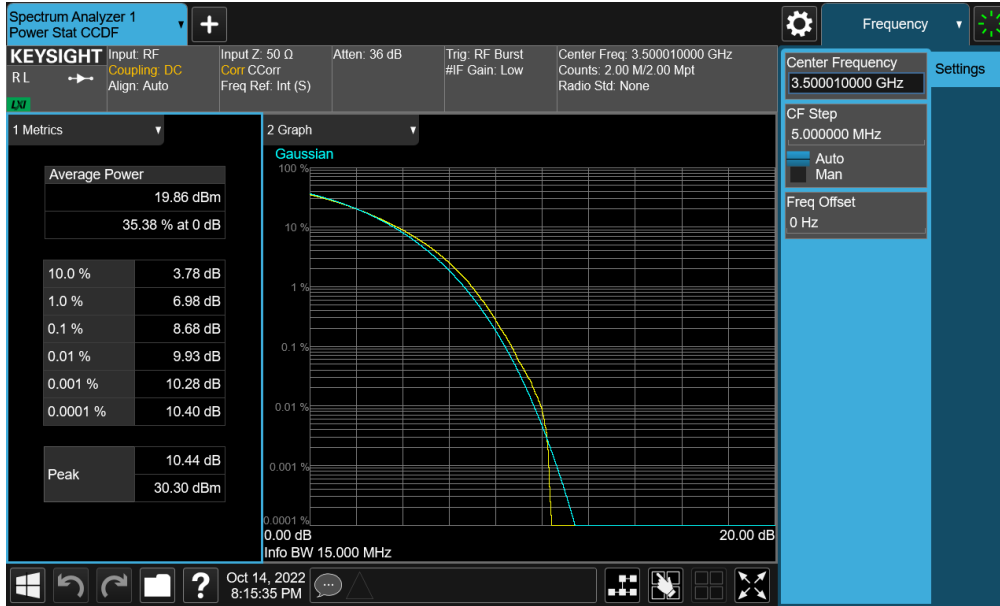


**Plot 7-211. PAR Plot (NR Band n77 - DoD Band – 15MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)**

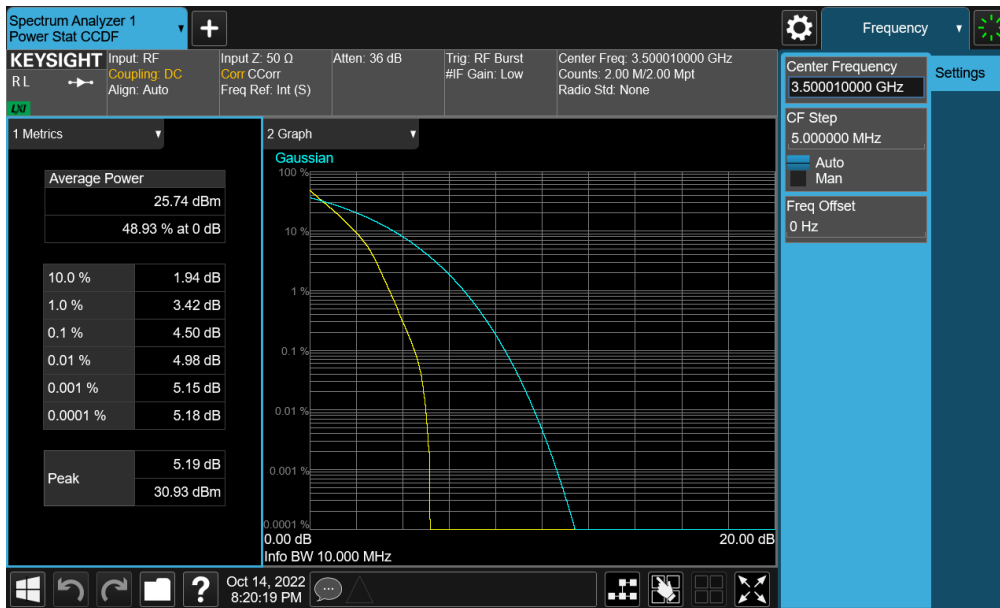


**Plot 7-212. PAR Plot (NR Band n77 - DoD Band – 15MHz CP-OFDM QPSK - Full RB)**

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 135 of 199



**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: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 136 of 199



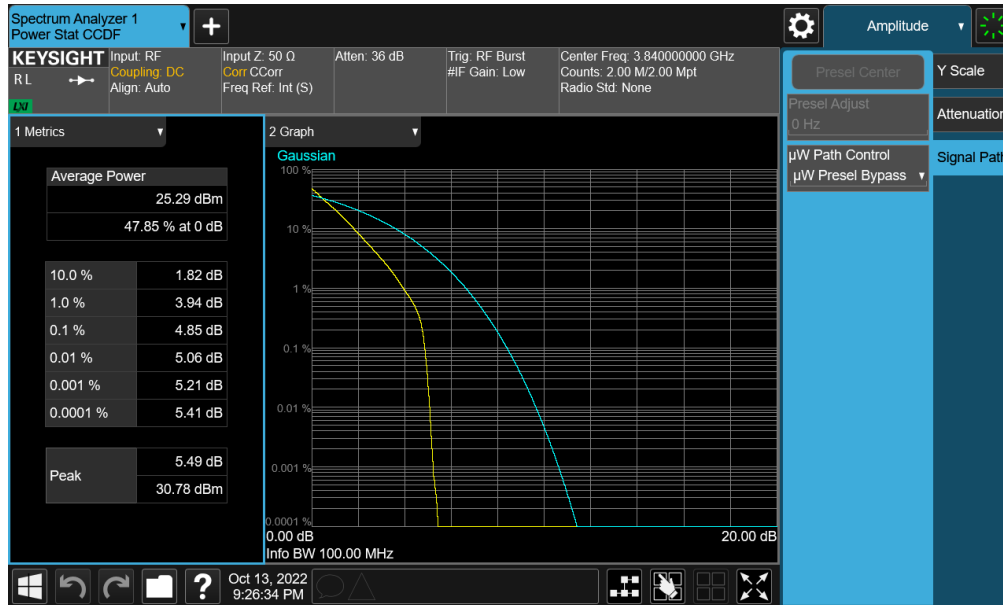
**Plot 7-215. PAR Plot (NR Band n77 - DoD Band – 10MHz CP-OFDM QPSK - Full RB)**



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

FCC ID: A3LSMS918U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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## 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)

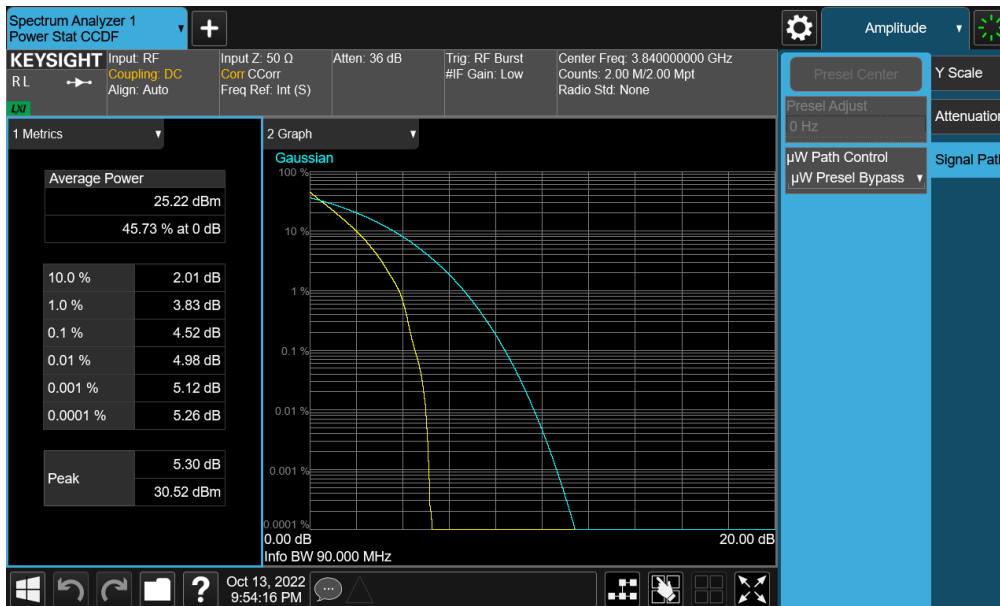


Plot 7-218. PAR Plot (NR Band n77 - C-Band – 100MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 138 of 199

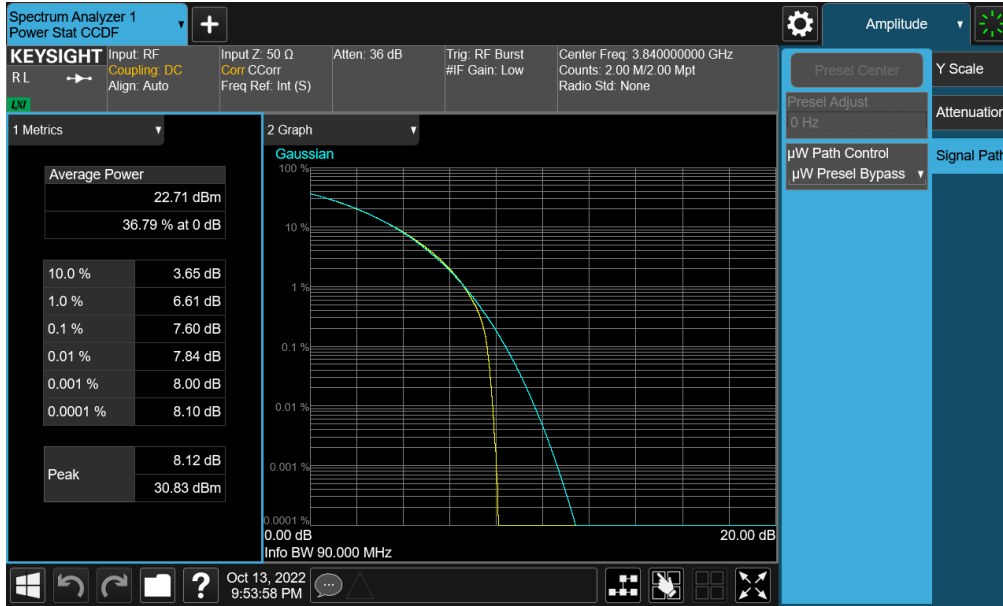


**Plot 7-219. PAR Plot (NR Band n77 - C-Band – 100MHz CP-OFDM 256-QAM - Full RB)**



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

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 139 of 199

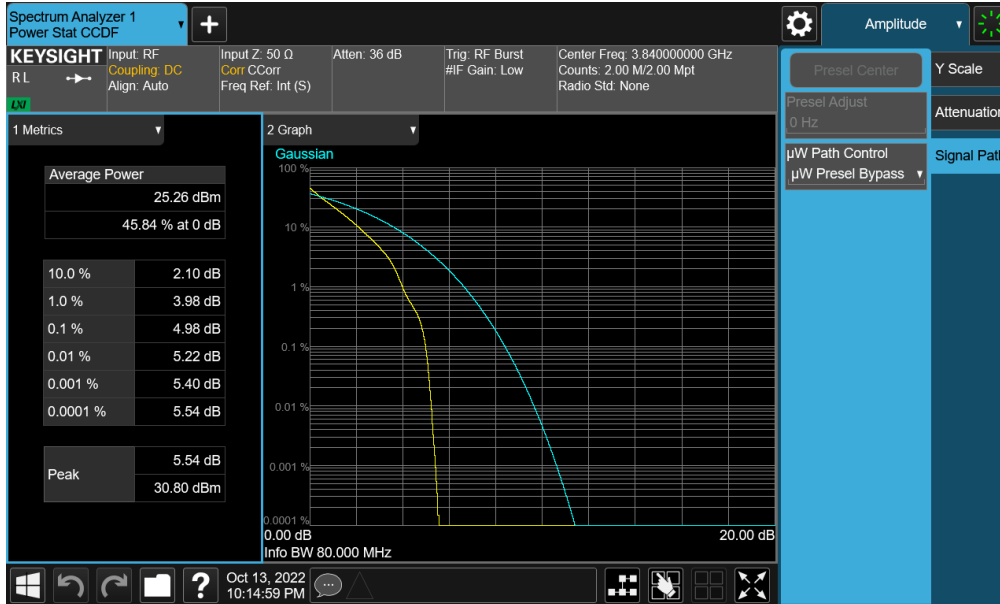


**Plot 7-221. PAR Plot (NR Band n77 - C-Band – 90MHz CP-OFDM QPSK - Full RB)**



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

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 140 of 199

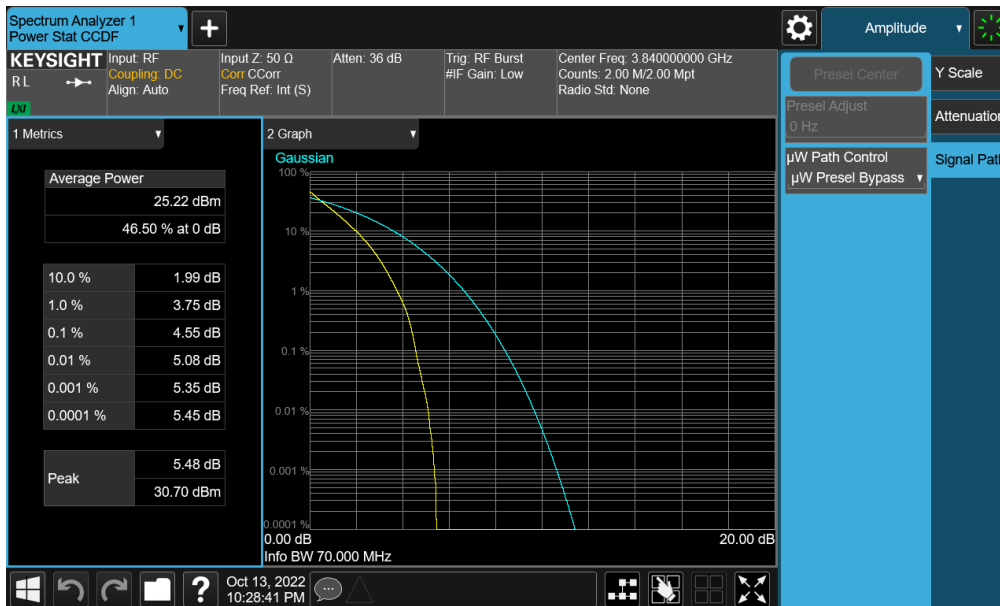


FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 141 of 199



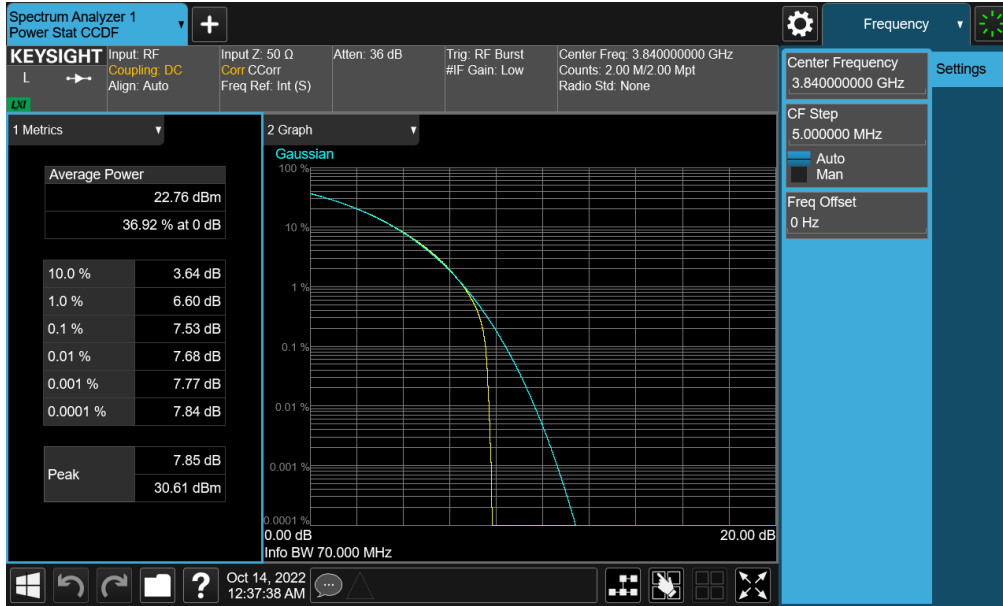


**Plot 7-225. PAR Plot (NR Band n77 - C-Band – 80MHz CP-OFDM 256-QAM - Full RB)**



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

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 142 of 199



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

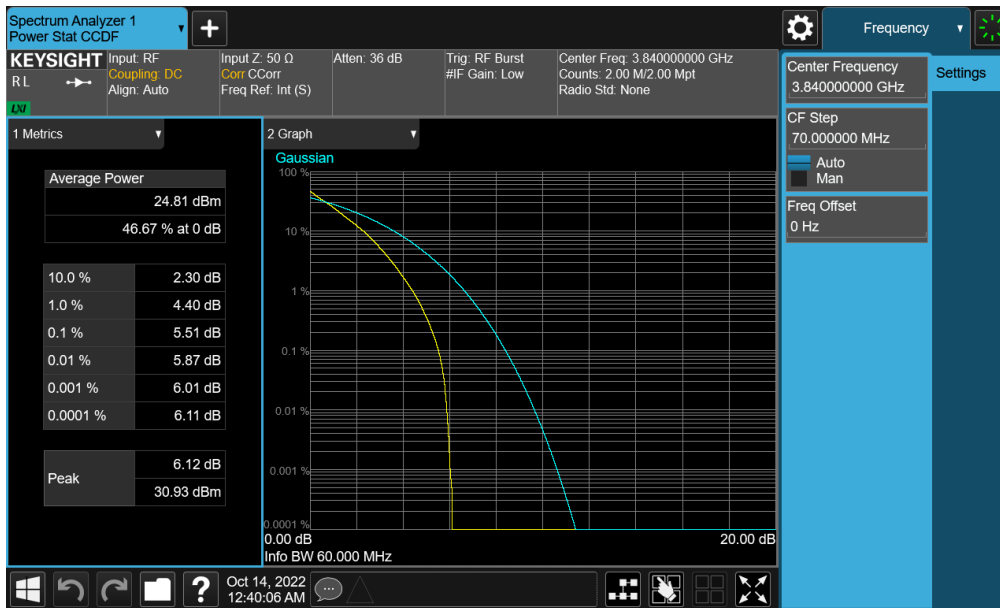


**Plot 7-228. PAR Plot (NR Band n77 - C-Band – 70MHz CP-OFDM 256-QAM - Full RB)**

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 143 of 199

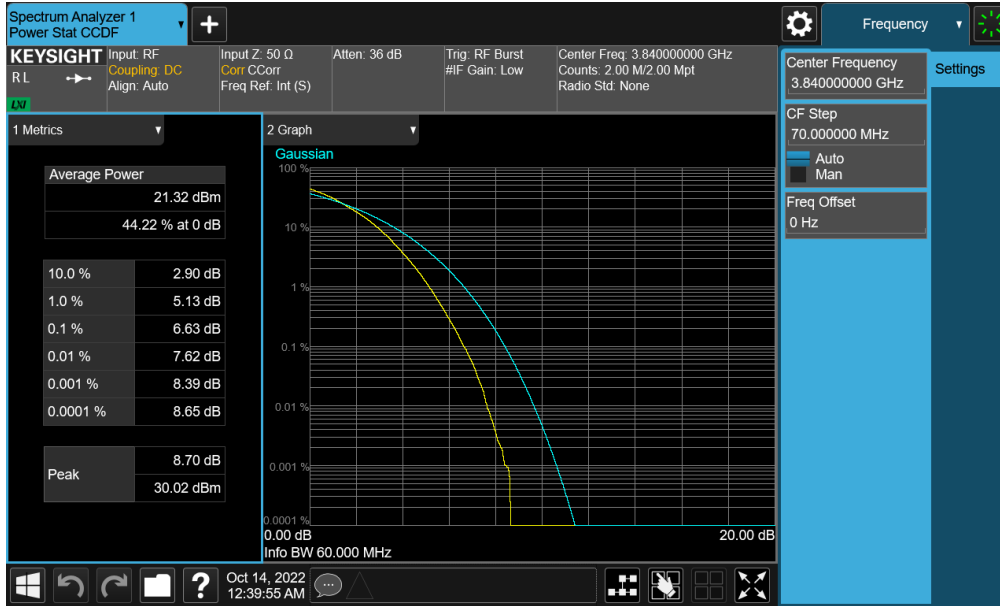


Plot 7-229. PAR Plot (NR Band n77 - C-Band – 60MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

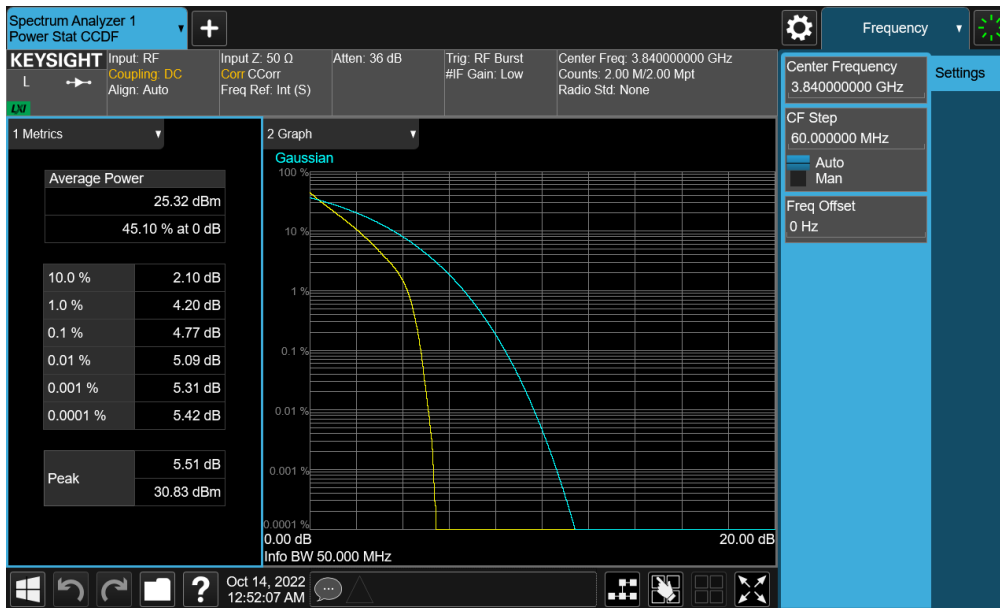


Plot 7-230. PAR Plot (NR Band n77 - C-Band – 60MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 144 of 199

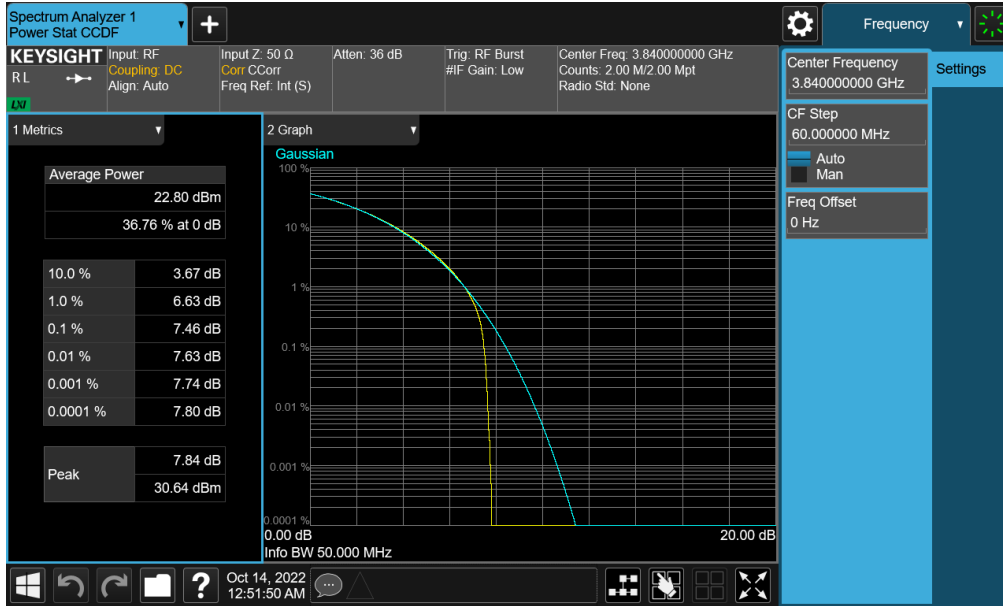


**Plot 7-231. PAR Plot (NR Band n77 - C-Band – 60MHz CP-OFDM 256-QAM - Full RB)**



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

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 145 of 199



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

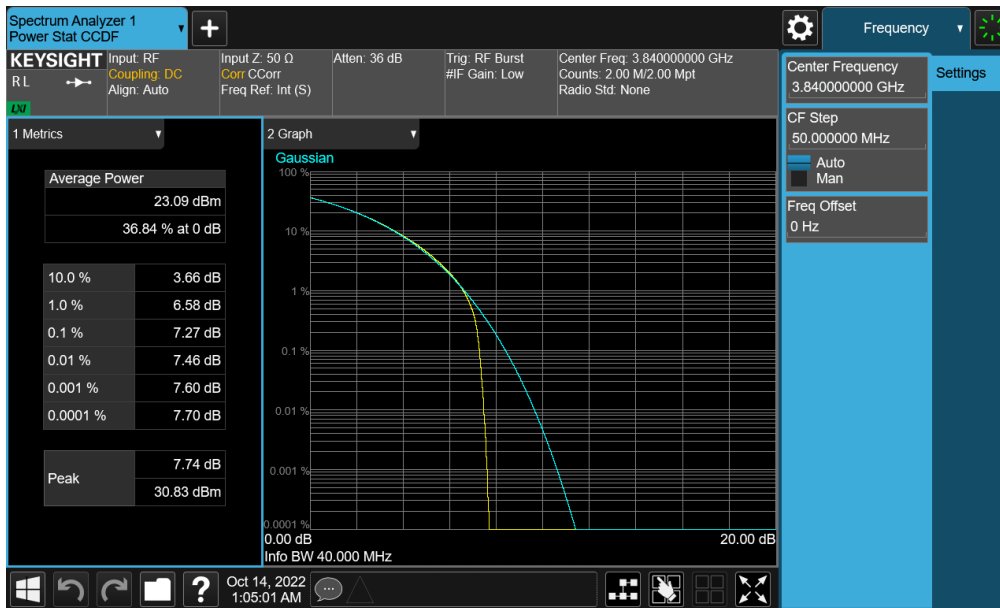


**Plot 7-234. PAR Plot (NR Band n77 - C-Band – 50MHz CP-OFDM 256-QAM - Full RB)**

FCC ID: A3LSMS918U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 146 of 199

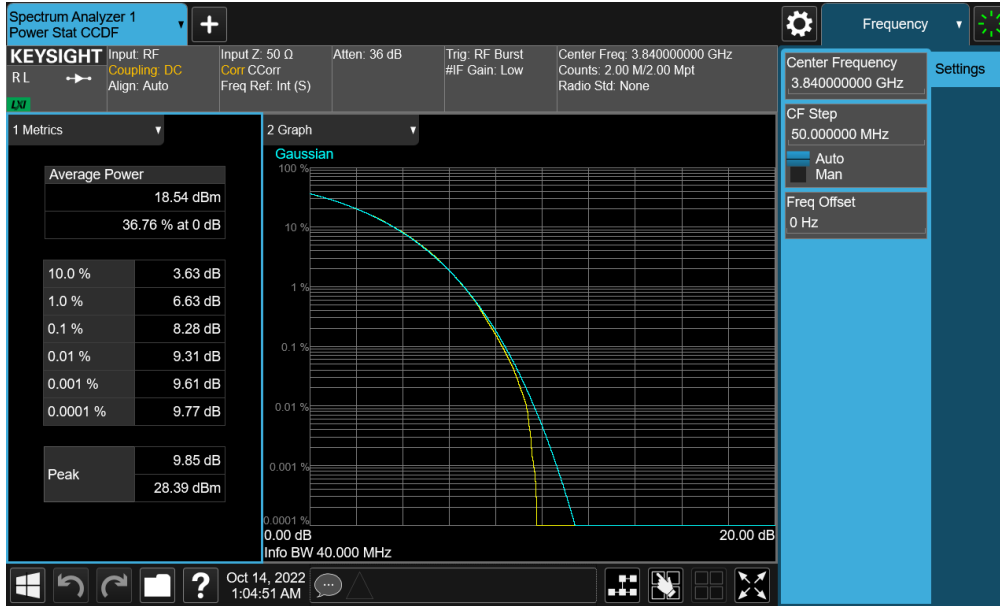


Plot 7-235. PAR Plot (NR Band n77 - C-Band – 40MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

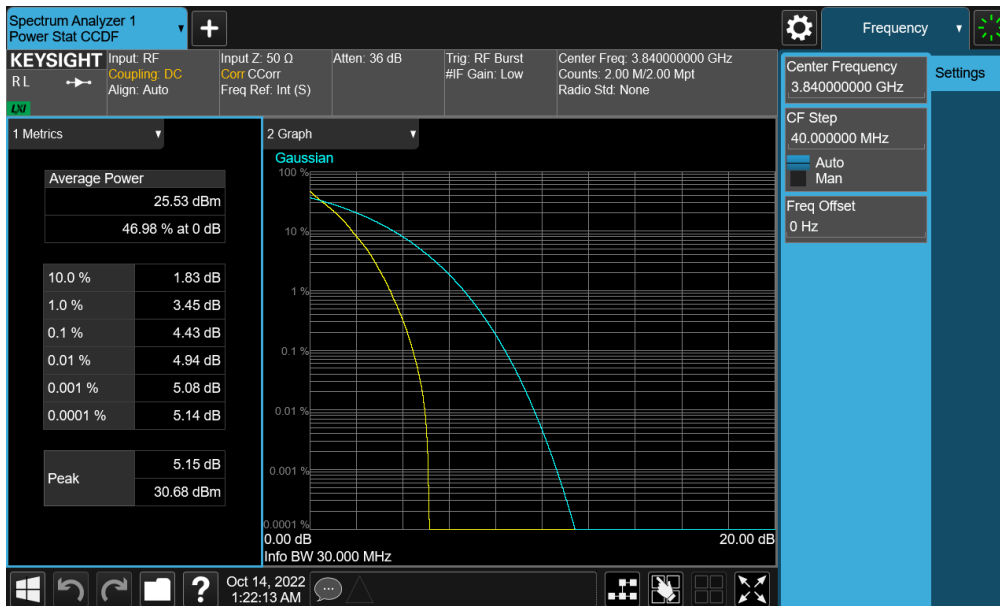


Plot 7-236. PAR Plot (NR Band n77 - C-Band – 40MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 147 of 199



**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 π/2 BPSK - Full RB)**

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 148 of 199



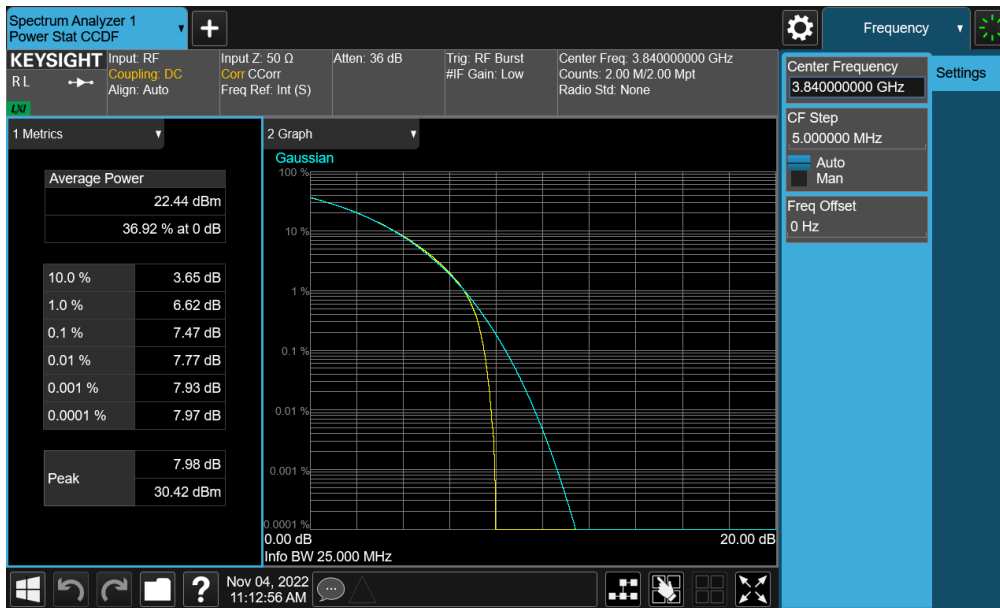
**Plot 7-239. PAR Plot (NR Band n77 - C-Band – 30MHz CP-OFDM QPSK - Full RB)**



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

FCC ID: A3LSMS918U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 149 of 199

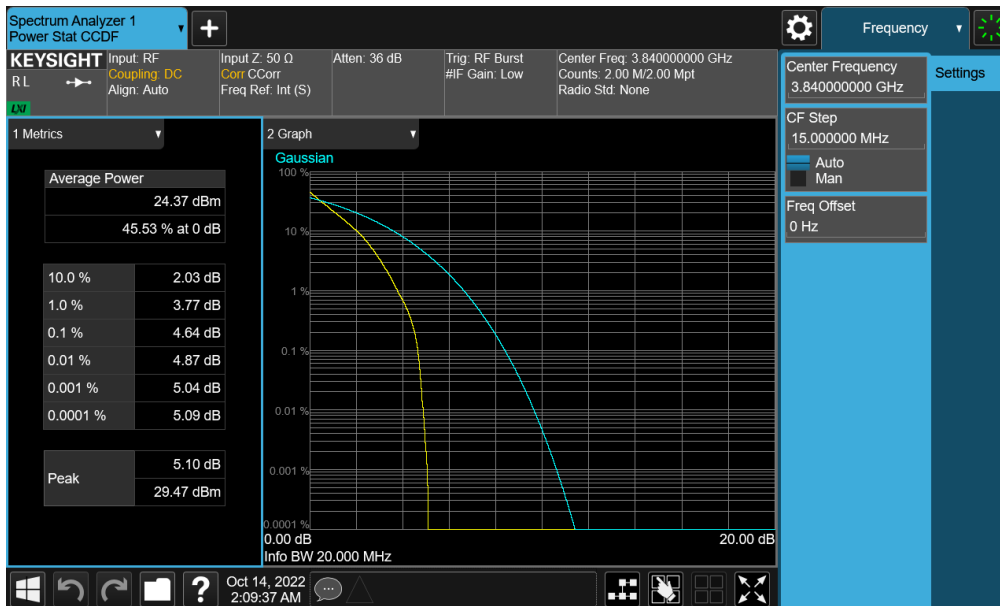




FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 150 of 199

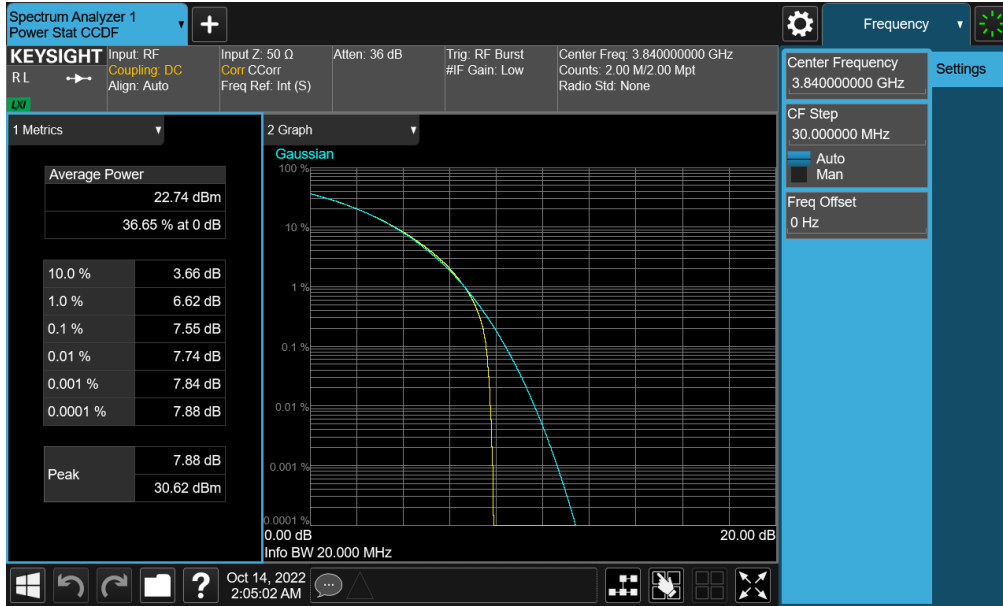


**Plot 7-243. PAR Plot (NR Band n77 - C-Band – 25MHz CP-OFDM 256-QAM - Full RB)**

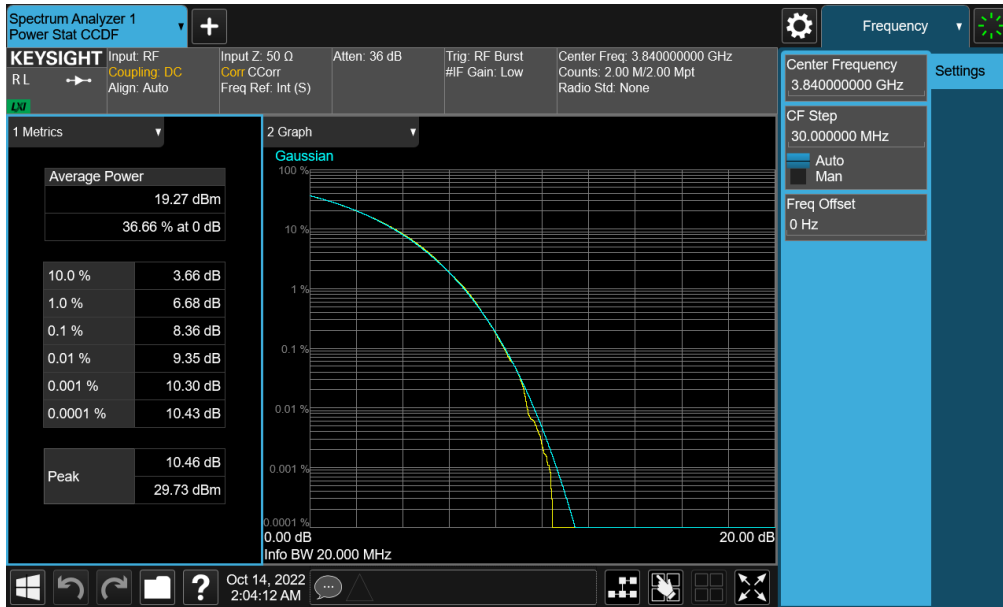


**Plot 7-244. PAR Plot (NR Band n77 - C-Band – 20MHz DFT-s-OFDM π/2 BPSK - Full RB)**

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 151 of 199



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

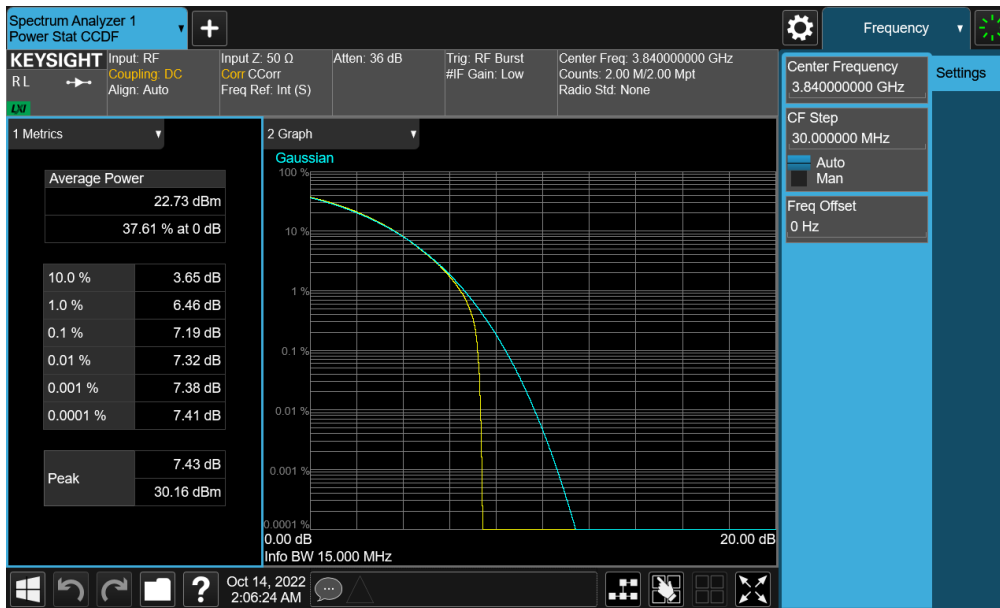


**Plot 7-246. PAR Plot (NR Band n77 - C-Band – 20MHz CP-OFDM 256-QAM - Full RB)**

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 152 of 199



Plot 7-247. PAR Plot (NR Band n77 - C-Band – 15MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

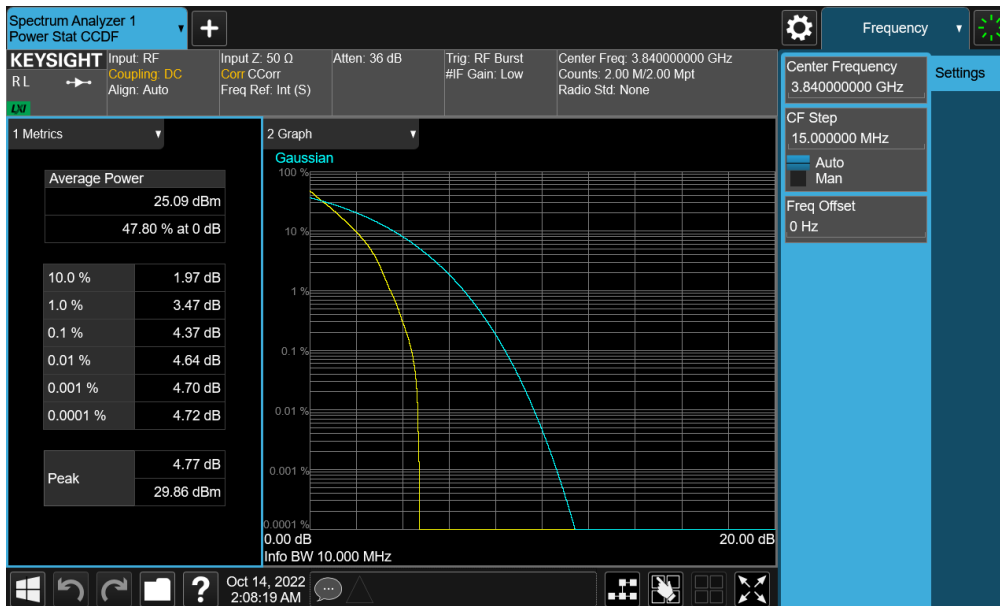


Plot 7-248. PAR Plot (NR Band n77 - C-Band – 15MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 153 of 199



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

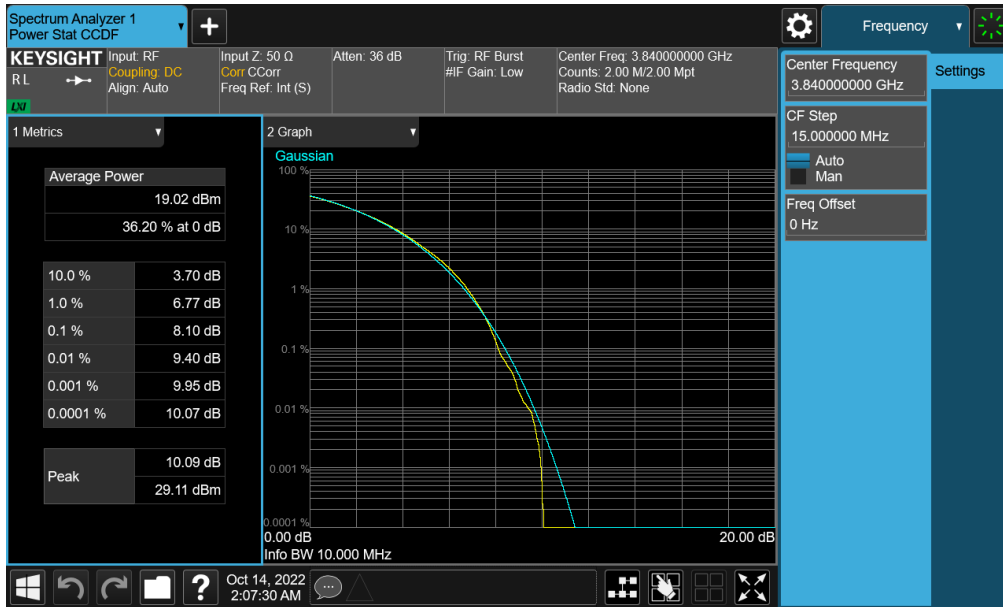


**Plot 7-250. PAR Plot (NR Band n77 - C-Band – 10MHz DFT-s-OFDM π/2 BPSK - Full RB)**

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 154 of 199



**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: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 155 of 199



## 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

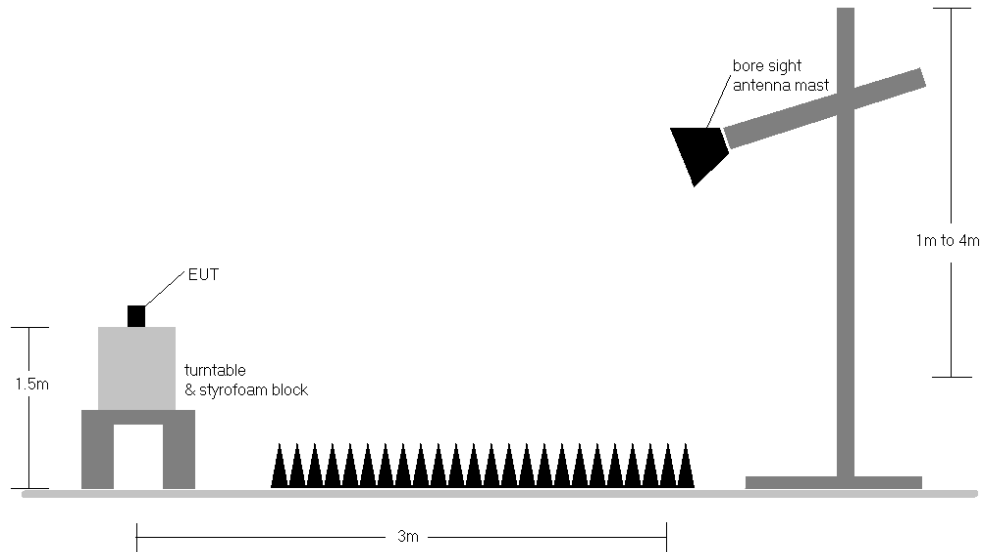
### Test Settings

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”. Trigger is set to enable triggering only on 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.

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**Test Setup**

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



**Figure 7-6. Radiated Test Setup >1GHz**

**Test Notes**

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery..
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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## NR Band n77 (PC2) - DoD 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	3500.01	V	113	270	7.16	1 / 204	16.94	24.10	0.257	30.00	-5.90
	QPSK	3500.01	V	113	270	7.16	1 / 204	17.03	<b>24.19</b>	0.262	30.00	-5.81
	16-QAM	3500.01	V	113	270	7.16	1 / 204	16.52	23.68	0.233	30.00	-6.32
90 MHz	$\pi/2$ BPSK	3495.00	V	113	270	7.20	1 / 122	17.38	24.59	0.288	30.00	-5.41
	$\pi/2$ BPSK	3500.01	V	113	270	7.16	1 / 122	17.33	24.49	0.281	30.00	-5.51
	$\pi/2$ BPSK	3504.99	V	113	270	7.16	1 / 122	17.43	<b>24.59</b>	0.288	30.00	-5.41
	QPSK	3495.00	V	113	270	7.20	1 / 61	17.10	24.30	0.269	30.00	-5.70
	QPSK	3500.01	V	113	270	7.16	1 / 61	17.07	24.23	0.265	30.00	-5.77
	QPSK	3504.99	V	113	270	7.16	1 / 61	17.08	24.24	0.265	30.00	-5.76
	16-QAM	3495.00	V	113	270	7.20	1 / 61	16.64	23.85	0.243	30.00	-6.15
80 MHz	$\pi/2$ BPSK	3490.02	V	113	270	7.25	1 / 108	16.84	24.08	0.256	30.00	-5.92
	$\pi/2$ BPSK	3500.01	V	113	270	7.16	1 / 54	16.88	24.04	0.253	30.00	-5.96
	$\pi/2$ BPSK	3510.00	V	113	270	7.16	1 / 108	17.12	24.28	0.268	30.00	-5.72
	QPSK	3490.02	V	113	270	7.25	1 / 54	17.26	<b>24.51</b>	0.282	30.00	-5.49
	QPSK	3500.01	V	113	270	7.16	1 / 54	17.34	24.50	0.282	30.00	-5.50
	QPSK	3510.00	V	113	270	7.16	1 / 54	17.34	24.50	0.282	30.00	-5.50
	16-QAM	3500.01	V	113	270	7.16	1 / 162	16.82	23.98	0.250	30.00	-6.02
70 MHz	$\pi/2$ BPSK	3485.01	V	113	270	7.29	1 / 47	17.14	24.43	0.277	30.00	-5.57
	$\pi/2$ BPSK	3500.01	V	113	270	7.16	1 / 47	17.29	<b>24.45</b>	0.279	30.00	-5.55
	$\pi/2$ BPSK	3514.98	V	113	270	7.16	1 / 47	17.27	24.43	0.277	30.00	-5.57
	QPSK	3485.01	V	113	270	7.29	1 / 94	17.01	24.30	0.269	30.00	-5.70
	QPSK	3500.01	V	113	270	7.16	1 / 94	17.13	24.29	0.269	30.00	-5.71
	QPSK	3514.98	V	113	270	7.16	1 / 94	17.04	24.20	0.263	30.00	-5.80
	16-QAM	3485.01	V	113	270	7.29	1 / 94	16.31	23.60	0.229	30.00	-6.40
60 MHz	$\pi/2$ BPSK	3480.00	V	113	270	7.33	1 / 81	16.48	23.81	0.241	30.00	-6.19
	$\pi/2$ BPSK	3500.01	V	113	270	7.16	1 / 81	17.16	24.32	0.270	30.00	-5.68
	$\pi/2$ BPSK	3519.99	V	113	270	7.16	1 / 40	17.53	24.69	0.294	30.00	-5.31
	QPSK	3480.00	V	113	270	7.33	1 / 81	16.73	24.06	0.255	30.00	-5.94
	QPSK	3500.01	V	113	270	7.16	1 / 81	17.51	24.67	0.293	30.00	-5.33
	QPSK	3519.99	V	113	270	7.16	1 / 81	17.60	<b>24.75</b>	0.299	30.00	-5.25
	16-QAM	3519.99	V	113	270	7.16	1 / 81	16.78	23.94	0.248	30.00	-6.06
50 MHz	$\pi/2$ BPSK	3475.02	V	113	270	7.38	1 / 66	17.15	24.53	0.284	30.00	-5.47
	$\pi/2$ BPSK	3500.01	V	113	270	7.16	1 / 66	17.31	24.46	0.280	30.00	-5.54
	$\pi/2$ BPSK	3525.00	V	113	270	7.16	1 / 66	17.31	24.46	0.280	30.00	-5.54
	QPSK	3475.02	V	113	270	7.38	1 / 99	17.61	<b>24.99</b>	0.315	30.00	-5.01
	QPSK	3500.01	V	113	270	7.16	1 / 99	17.77	24.93	0.311	30.00	-5.07
	QPSK	3525.00	V	113	270	7.16	1 / 99	17.75	24.91	0.310	30.00	-5.09
	16-QAM	3475.02	V	113	270	7.38	1 / 99	17.04	24.42	0.277	30.00	-5.58

Table 7-15. EIRP Data (NR Band n77 - DoD Band – 50MHz-100MHz Bandwidths – SRS-1)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 158 of 199



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]
40 MHz	$\pi/2$ BPSK	3470.01	V	113	270	7.42	1 / 53	17.57	25.00	0.316	30.00	-5.00
	$\pi/2$ BPSK	3500.01	V	113	270	7.16	1 / 79	17.71	24.87	0.307	30.00	-5.13
	$\pi/2$ BPSK	3529.98	V	113	270	7.16	1 / 26	17.98	25.14	0.326	30.00	-4.86
	QPSK	3470.01	V	113	270	7.42	1 / 53	17.45	24.87	0.307	30.00	-5.13
	QPSK	3500.01	V	113	270	7.16	1 / 26	18.18	<b>25.34</b>	0.342	30.00	-4.66
	QPSK	3529.98	V	113	270	7.16	1 / 26	16.81	23.97	0.250	30.00	-6.03
30 MHz	16-QAM	3470.01	V	113	270	7.42	1 / 26	17.84	25.26	0.336	30.00	-4.74
	$\pi/2$ BPSK	3465.00	V	113	270	7.46	1 / 39	17.05	24.52	0.283	30.00	-5.48
	$\pi/2$ BPSK	3500.01	V	113	270	7.16	1 / 19	17.58	24.74	0.298	30.00	-5.26
	$\pi/2$ BPSK	3534.99	V	113	270	7.16	1 / 58	18.13	<b>25.29</b>	0.338	30.00	-4.71
	QPSK	3465.00	V	113	270	7.46	1 / 58	16.74	24.21	0.263	30.00	-5.79
	QPSK	3500.01	V	113	270	7.16	1 / 58	17.83	24.98	0.315	30.00	-5.02
25 MHz	QPSK	3534.99	V	113	270	7.16	1 / 39	17.95	25.11	0.324	30.00	-4.89
	16-QAM	3465.00	V	113	270	7.46	1 / 58	16.97	24.43	0.278	30.00	-5.57
	$\pi/2$ BPSK	3462.51	V	113	270	7.49	1 / 48	16.56	24.04	0.254	30.00	-5.96
	$\pi/2$ BPSK	3500.01	V	113	270	7.16	1 / 48	16.86	24.02	0.252	30.00	-5.98
	$\pi/2$ BPSK	3537.48	V	113	270	7.16	1 / 48	16.82	23.98	0.250	30.00	-6.02
	QPSK	3462.51	V	113	270	7.49	1 / 48	16.82	24.31	0.270	30.00	-5.69
20 MHz	QPSK	3500.01	V	113	270	7.16	1 / 48	17.14	24.30	0.269	30.00	-5.70
	QPSK	3537.48	V	113	270	7.16	1 / 48	17.06	24.22	0.264	30.00	-5.78
	16-QAM	3462.51	V	113	270	7.49	1 / 48	16.24	23.72	0.236	30.00	-6.28
	$\pi/2$ BPSK	3460.02	V	113	270	7.51	1 / 25	17.34	24.84	0.305	30.00	-5.16
	$\pi/2$ BPSK	3500.01	V	113	270	7.16	1 / 13	17.27	24.43	0.277	30.00	-5.57
	$\pi/2$ BPSK	3540.00	V	113	270	7.16	1 / 25	17.94	25.10	0.323	30.00	-4.90
15 MHz	QPSK	3460.02	V	113	270	7.51	1 / 37	17.49	25.00	0.316	30.00	-5.00
	QPSK	3500.01	V	113	270	7.16	1 / 25	17.77	24.93	0.311	30.00	-5.07
	QPSK	3540.00	V	113	270	7.16	1 / 37	18.26	<b>25.42</b>	0.348	30.00	-4.58
	16-QAM	3500.01	V	113	270	7.16	1 / 25	17.29	24.44	0.278	30.00	-5.56
	$\pi/2$ BPSK	3457.50	V	113	270	7.53	1 / 28	17.32	24.84	0.305	30.00	-5.16
	$\pi/2$ BPSK	3500.01	V	113	270	7.16	1 / 28	17.61	24.77	0.300	30.00	-5.23
10 MHz	$\pi/2$ BPSK	3542.49	V	113	270	7.16	1 / 9	17.22	24.38	0.274	30.00	-5.62
	QPSK	3457.50	V	113	270	7.53	1 / 28	18.01	25.54	0.358	30.00	-4.46
	QPSK	3500.01	V	113	270	7.16	1 / 28	18.50	25.66	0.368	30.00	-4.34
	QPSK	3542.49	V	113	270	7.16	1 / 28	18.68	<b>25.84</b>	0.383	30.00	-4.16
	16-QAM	3542.49	V	113	270	7.16	1 / 19	17.84	25.00	0.316	30.00	-5.00
	$\pi/2$ BPSK	3455.01	V	113	270	7.55	1 / 6	17.11	24.67	0.293	30.00	-5.33
100 MHz	$\pi/2$ BPSK	3500.01	V	113	270	7.16	1 / 12	16.77	23.93	0.247	30.00	-6.07
	$\pi/2$ BPSK	3544.98	V	113	270	7.16	1 / 17	16.86	24.02	0.252	30.00	-5.98
	QPSK	3455.01	V	113	270	7.55	1 / 17	17.67	25.22	0.332	30.00	-4.78
	QPSK	3500.01	V	113	270	7.16	1 / 6	17.84	25.00	0.317	30.00	-5.00
	QPSK	3544.98	V	113	270	7.16	1 / 17	18.07	<b>25.23</b>	0.333	30.00	-4.77
	16-QAM	3500.01	V	113	270	7.16	1 / 6	17.75	24.91	0.310	30.00	-5.09
100 MHz	QPSK (CP-OFDM)	3500.01	V	118	272	7.16	1 / 204	15.46	22.62	0.183	30.00	-7.38
	QPSK (Opposite Pol.)	3500.01	H	130	302	7.16	1 / 68	16.39	23.55	0.226	30.00	-6.45
	QPSK (WCP)	3500.01	V	369	177	7.16	1 / 204	16.13	23.29	0.213	30.00	-6.71

Table 7-16. EIRP Data (NR Band n77 - DoD Band - 10MHz-40MHz Bandwidths - SRS-1)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 159 of 199

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	105	327	7.74	1 / 204	9.53	<b>17.27</b>	0.053	30.00	-12.73
	QPSK	3500.01	H	105	327	7.74	1 / 204	8.90	16.64	0.046	30.00	-13.36
	16-QAM	3500.01	H	105	327	7.74	1 / 204	2.90	10.64	0.012	30.00	-19.36
	QPSK (CP-OFDM)	3500.01	H	105	327	7.74	1/204	9.14	16.88	0.049	30.00	-13.12
	QPSK (Opposite Pol.)	3500.01	V	272	85	7.16	270/0	7.88	15.04	0.032	30.00	-14.96

**Table 7-17. 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	133	312	7.74	1 / 136	13.52	<b>21.26</b>	0.134	30.00	-8.74
	QPSK	3500.01	H	133	312	7.74	1 / 136	13.20	20.94	0.124	30.00	-9.06
	16-QAM	3500.01	H	133	312	7.74	1 / 136	12.73	20.47	0.111	30.00	-9.53
	QPSK (CP-OFDM)	3500.01	H	133	312	7.74	1/68	13.14	20.88	0.122	30.00	-9.12
	QPSK (Opposite Pol.)	3500.01	V	399	358	7.16	1/204	11.94	19.10	0.081	30.00	-10.90

**Table 7-18. 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	103	357	7.74	1 / 68	2.42	10.16	0.010	30.00	-19.84
	QPSK	3500.01	H	103	357	7.74	1 / 68	2.65	<b>10.39</b>	0.011	30.00	-19.61
	16-QAM	3500.01	H	103	357	7.74	1 / 68	1.95	9.69	0.009	30.00	-20.31
	QPSK (CP-OFDM)	3500.01	H	103	357	7.74	1/68	1.24	8.98	0.008	30.00	-21.02
	QPSK (Opposite Pol.)	3500.01	V	107	36	7.16	1/136	2.54	9.70	0.009	30.00	-20.30

**Table 7-19. EIRP Data (NR Band n77 - DoD Band – SRS-4)**

FCC ID: A3LSMS918U	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 160 of 199



## 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	V	113	276	6.83	1 / 68	15.75	22.58	0.181	30.00	-7.42
	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 68	16.79	23.26	0.212	30.00	-6.74
	$\pi/2$ BPSK	3930.00	V	115	263	6.49	1 / 136	17.59	24.08	0.256	30.00	-5.92
	QPSK	3750.00	V	113	276	6.83	1 / 136	15.78	22.61	0.183	30.00	-7.39
	QPSK	3840.00	V	108	266	6.47	1 / 136	16.37	22.84	0.192	30.00	-7.16
	QPSK	3930.00	V	115	263	6.49	1 / 136	17.65	<b>24.14</b>	0.260	30.00	-5.86
90 MHz	16-QAM	3930.00	V	115	263	6.49	1 / 136	16.65	23.14	0.206	30.00	-6.86
	$\pi/2$ BPSK	3745.02	V	113	276	6.81	1 / 183	15.84	22.65	0.184	30.00	-7.35
	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 183	16.13	22.61	0.182	30.00	-7.39
	$\pi/2$ BPSK	3934.98	V	115	263	6.49	1 / 61	18.12	<b>24.61</b>	0.289	30.00	-5.39
	QPSK	3745.02	V	113	276	6.81	1 / 183	15.89	22.70	0.186	30.00	-7.30
	QPSK	3840.00	V	108	266	6.47	1 / 183	16.43	22.91	0.195	30.00	-7.09
80 MHz	QPSK	3934.98	V	115	263	6.49	1 / 183	17.79	24.28	0.268	30.00	-5.72
	16-QAM	3934.98	V	115	263	6.49	1 / 61	15.99	22.47	0.177	30.00	-7.53
	$\pi/2$ BPSK	3740.01	V	113	276	6.78	1 / 108	15.96	22.74	0.188	30.00	-7.26
	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 108	16.74	23.21	0.209	30.00	-6.79
	$\pi/2$ BPSK	3939.99	V	115	263	6.48	1 / 108	17.82	<b>24.29</b>	0.269	30.00	-5.71
	QPSK	3740.01	V	113	276	6.78	1 / 54	15.86	22.65	0.184	30.00	-7.35
70 MHz	QPSK	3840.00	V	108	266	6.47	1 / 162	16.32	22.79	0.190	30.00	-7.21
	QPSK	3939.99	V	115	263	6.48	1 / 54	17.75	24.22	0.264	30.00	-5.78
	16-QAM	3939.99	V	115	263	6.48	1 / 162	16.79	23.26	0.212	30.00	-6.74
	$\pi/2$ BPSK	3735.00	V	113	276	6.76	1 / 141	16.01	22.77	0.189	30.00	-7.23
	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 141	16.59	23.06	0.202	30.00	-6.94
	$\pi/2$ BPSK	3945.00	V	115	263	6.47	1 / 94	17.82	24.28	0.268	30.00	-5.72
60 MHz	QPSK	3735.00	V	113	276	6.76	1 / 141	16.21	22.96	0.198	30.00	-7.04
	QPSK	3840.00	V	108	266	6.47	1 / 94	16.36	22.84	0.192	30.00	-7.16
	QPSK	3945.00	V	115	263	6.47	1 / 141	18.03	<b>24.50</b>	0.282	30.00	-5.50
	16-QAM	3735.00	V	113	276	6.76	1 / 141	16.46	23.22	0.210	30.00	-6.78
	$\pi/2$ BPSK	3730.02	V	113	276	6.73	1 / 40	16.25	22.99	0.199	30.00	-7.01
	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 81	16.91	23.39	0.218	30.00	-6.61
50 MHz	$\pi/2$ BPSK	3949.98	V	115	263	6.46	1 / 81	17.86	<b>24.31</b>	0.270	30.00	-5.69
	QPSK	3730.02	V	113	276	6.73	1 / 40	16.31	23.04	0.201	30.00	-6.96
	QPSK	3840.00	V	108	266	6.47	1 / 121	16.63	23.11	0.204	30.00	-6.89
	QPSK	3949.98	V	115	263	6.46	1 / 81	17.84	24.30	0.269	30.00	-5.70
	16-QAM	3949.98	V	115	263	6.46	1 / 40	17.28	23.74	0.236	30.00	-6.26
	$\pi/2$ BPSK	3725.01	V	113	276	6.71	1 / 66	15.97	22.67	0.185	30.00	-7.33
50 MHz	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 66	17.07	23.54	0.226	30.00	-6.46
	$\pi/2$ BPSK	3954.99	V	115	263	6.43	1 / 66	18.11	24.54	0.284	30.00	-5.46
	QPSK	3725.01	V	113	276	6.71	1 / 33	15.97	22.68	0.185	30.00	-7.32
	QPSK	3840.00	V	108	266	6.47	1 / 99	16.49	22.97	0.198	30.00	-7.03
	QPSK	3954.99	V	115	263	6.43	1 / 99	18.27	<b>24.71</b>	0.296	30.00	-5.29
	16-QAM	3954.99	V	115	263	6.43	1 / 33	16.78	23.22	0.210	30.00	-6.78

Table 7-20. EIRP Data (NR Band n77 – C-Band – 50MHz-100MHz Bandwidths – SRS-1)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 161 of 199



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]
40 MHz	$\pi/2$ BPSK	3720.00	V	113	276	6.68	1 / 26	16.80	23.49	0.223	30.00	-6.51
	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 26	17.42	23.89	0.245	30.00	-6.11
	$\pi/2$ BPSK	3960.00	V	115	263	6.41	1 / 26	18.40	24.81	0.303	30.00	-5.19
	QPSK	3720.00	V	113	276	6.68	1 / 53	16.46	23.14	0.206	30.00	-6.86
	QPSK	3840.00	V	108	266	6.47	1 / 26	17.31	23.78	0.239	30.00	-6.22
	QPSK	3960.00	V	115	263	6.41	1 / 26	18.60	<b>25.01</b>	0.317	30.00	-4.99
	16-QAM	3960.00	V	115	263	6.41	1 / 79	17.45	23.86	0.243	30.00	-6.14
30 MHz	$\pi/2$ BPSK	3715.02	V	113	276	6.66	1 / 19	17.33	23.99	0.251	30.00	-6.01
	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 39	16.78	23.26	0.212	30.00	-6.74
	$\pi/2$ BPSK	3964.98	V	115	263	6.39	1 / 19	19.10	25.50	0.354	30.00	-4.50
	QPSK	3715.02	V	113	276	6.66	1 / 19	16.51	23.17	0.207	30.00	-6.83
	QPSK	3840.00	V	108	266	6.47	1 / 58	17.07	23.55	0.226	30.00	-6.45
	QPSK	3964.98	V	115	263	6.39	1 / 39	19.31	<b>25.70</b>	0.372	30.00	-4.30
	16-QAM	3840.00	V	108	266	6.47	1 / 39	18.10	24.57	0.286	30.00	-5.43
25 MHz	$\pi/2$ BPSK	3712.50	V	113	276	6.63	1 / 48	15.83	22.46	0.176	30.00	-7.54
	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 48	16.34	22.82	0.191	30.00	-7.18
	$\pi/2$ BPSK	3967.50	V	115	263	6.37	1 / 48	17.79	24.16	0.261	30.00	-5.84
	QPSK	3712.50	V	113	276	6.63	1 / 48	15.79	22.42	0.175	30.00	-7.58
	QPSK	3840.00	V	108	266	6.47	1 / 48	16.06	22.53	0.179	30.00	-7.47
	QPSK	3967.50	V	115	263	6.37	1 / 48	17.88	<b>24.25</b>	0.266	30.00	-5.75
	16-QAM	3967.50	V	115	263	6.37	1 / 48	16.53	22.90	0.195	30.00	-7.10
20 MHz	$\pi/2$ BPSK	3710.01	V	113	276	6.63	1 / 37	15.74	22.37	0.172	30.00	-7.63
	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 37	16.32	22.80	0.190	30.00	-7.20
	$\pi/2$ BPSK	3969.99	V	115	263	6.37	1 / 37	17.85	24.22	0.264	30.00	-5.78
	QPSK	3710.01	V	113	276	6.63	1 / 37	15.72	22.35	0.172	30.00	-7.65
	QPSK	3840.00	V	108	266	6.47	1 / 37	15.94	22.41	0.174	30.00	-7.59
	QPSK	3969.99	V	115	263	6.37	1 / 37	17.87	24.24	0.265	30.00	-5.76
	16-QAM	3969.99	V	115	263	6.37	1 / 25	16.55	22.92	0.196	30.00	-7.08
15 MHz	$\pi/2$ BPSK	3707.52	V	113	276	6.62	1 / 28	15.72	22.34	0.171	30.00	-7.66
	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 28	16.26	22.74	0.188	30.00	-7.26
	$\pi/2$ BPSK	3972.48	V	115	263	6.36	1 / 28	17.85	24.21	0.264	30.00	-5.79
	QPSK	3707.52	V	113	276	6.62	1 / 28	15.63	22.25	0.168	30.00	-7.75
	QPSK	3840.00	V	108	266	6.47	1 / 28	15.94	22.41	0.174	30.00	-7.59
	QPSK	3972.48	V	115	263	6.36	1 / 28	17.96	<b>24.32</b>	0.270	30.00	-5.68
	16-QAM	3972.48	V	115	263	6.36	1 / 28	16.40	22.76	0.189	30.00	-7.24
10 MHz	$\pi/2$ BPSK	3705.00	V	113	276	6.60	1 / 6	15.49	22.10	0.162	30.00	-7.90
	$\pi/2$ BPSK	3840.00	V	108	266	6.47	1 / 12	16.11	22.59	0.181	30.00	-7.41
	$\pi/2$ BPSK	3975.00	V	115	263	6.35	1 / 17	17.59	23.94	0.248	30.00	-6.06
	QPSK	3705.00	V	113	276	6.60	1 / 12	15.46	22.07	0.161	30.00	-7.93
	QPSK	3840.00	V	108	266	6.47	1 / 12	15.75	22.22	0.167	30.00	-7.78
	QPSK	3975.00	V	115	263	6.35	1 / 17	17.63	<b>23.98</b>	0.250	30.00	-6.02
	16-QAM	3975.00	V	115	263	6.35	1 / 17	16.36	22.70	0.186	30.00	-7.30
100 MHz	QPSK (CP-OFDM)	3930.00	V	112	263	6.49	1 / 136	15.90	22.39	0.174	30.00	-7.61
	QPSK (Opposite Pol.)	3930.00	H	142	303	5.99	1 / 136	14.41	20.40	0.110	30.00	-9.60
	QPSK (WCP)	3930.00	V	382	199	6.49	1 / 68	17.52	24.01	0.252	30.00	-5.99

Table 7-21. EIRP Data (NR Band n77 – C-Band – 10MHz-40MHz Bandwidths – SRS-1)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.00	H	104	332	5.98	1 / 68	7.34	13.32	0.021	30.00	-16.68
	$\pi/2$ BPSK	3840.00	H	102	325	6.02	1 / 68	7.82	13.84	0.024	30.00	-16.16
	$\pi/2$ BPSK	3930.00	H	104	332	5.99	1 / 204	9.49	15.48	0.035	30.00	-14.52
	QPSK	3750.00	H	104	332	5.98	1 / 68	7.50	13.48	0.022	30.00	-16.52
	QPSK	3840.00	H	102	325	6.02	1 / 68	7.35	13.37	0.022	30.00	-16.63
	QPSK	3930.00	H	104	332	5.99	1 / 204	9.22	15.21	0.033	30.00	-14.79
	16-QAM	3930.00	H	104	332	5.99	1 / 204	7.32	13.31	0.021	30.00	-16.69
	QPSK (CP-OFDM)	3840.0	H	104	332	5.99	1/68	7.92	13.91	0.025	30.00	-16.09
QPSK (Opposite Pol.)	3840.0	V	400	89	6.49	1/136	8.13	14.62	0.029	30.00	-15.38	

Table 7-22. 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	V	399	342	6.83	1 / 68	13.67	20.50	0.112	30.00	-9.50
	$\pi/2$ BPSK	3840.00	V	392	349	6.47	1 / 204	13.87	20.34	0.108	30.00	-9.66
	$\pi/2$ BPSK	3930.00	V	400	335	6.49	1 / 68	15.01	21.50	0.141	30.00	-8.50
	QPSK	3750.00	V	399	342	6.83	1 / 68	13.50	20.33	0.108	30.00	-9.67
	QPSK	3840.00	V	392	349	6.47	1 / 204	13.76	20.23	0.106	30.00	-9.77
	QPSK	3930.00	V	400	335	6.49	1 / 68	14.67	21.16	0.131	30.00	-8.84
	16-QAM	3750.00	V	399	342	6.83	1 / 68	12.27	19.10	0.081	30.00	-10.90
	QPSK (CP-OFDM)	3840.0	V	400	335	6.49	1/136	11.21	17.70	0.059	30.00	-12.30
QPSK (Opposite Pol.)	3840.0	H	107	324	5.99	1/68	13.32	19.31	0.085	30.00	-10.69	

Table 7-23. 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	V	112	355	6.83	1 / 204	9.52	16.35	0.043	30.00	-13.65
	$\pi/2$ BPSK	3840.00	V	110	349	6.47	1 / 136	9.54	16.01	0.040	30.00	-13.99
	$\pi/2$ BPSK	3930.00	V	104	360	6.49	1 / 136	12.76	19.25	0.084	30.00	-10.75
	QPSK	3750.00	V	112	355	6.83	1 / 204	8.85	15.68	0.037	30.00	-14.32
	QPSK	3840.00	V	110	349	6.47	1 / 136	9.60	16.07	0.040	30.00	-13.93
	QPSK	3930.00	V	104	360	6.49	1 / 136	12.61	19.10	0.081	30.00	-10.90
	16-QAM	3930.00	V	104	360	6.49	1 / 136	11.89	18.38	0.069	30.00	-11.62
100 MHz	QPSK (CP-OFDM)	3840.0	V	104	365	6.49	1/136	11.91	18.40	0.069	30.00	-11.60
	QPSK (Opposite Pol.)	3840.0	H	102	328	5.99	1/136	10.26	16.25	0.042	30.00	-13.75

Table 7-24. EIRP Data (NR Band n77 - C-Band – SRS-4)

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## 7.8 Radiated Spurious Emissions Measurements

### Test Overview

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

### Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

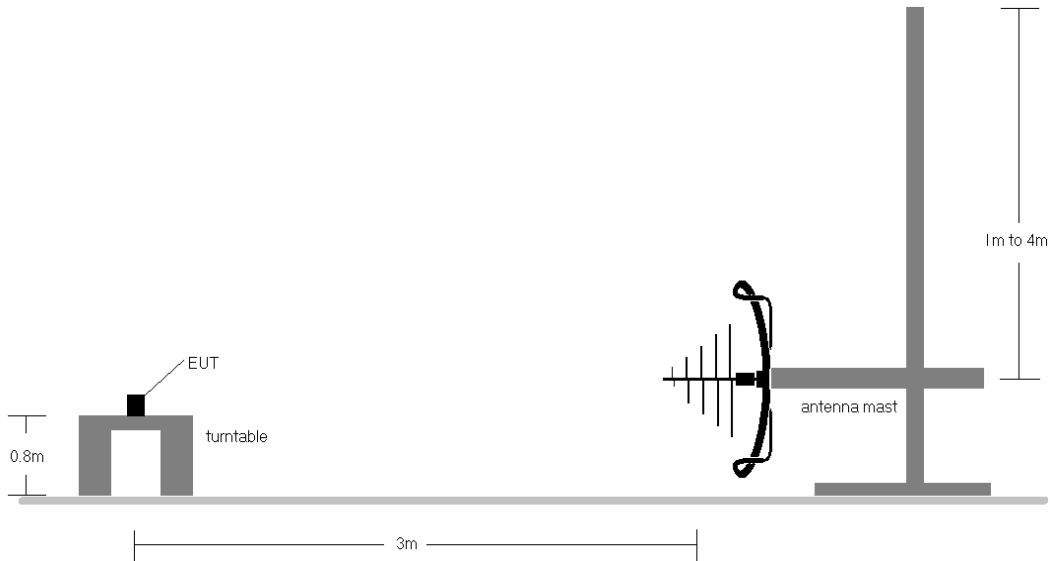
### Test Settings

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

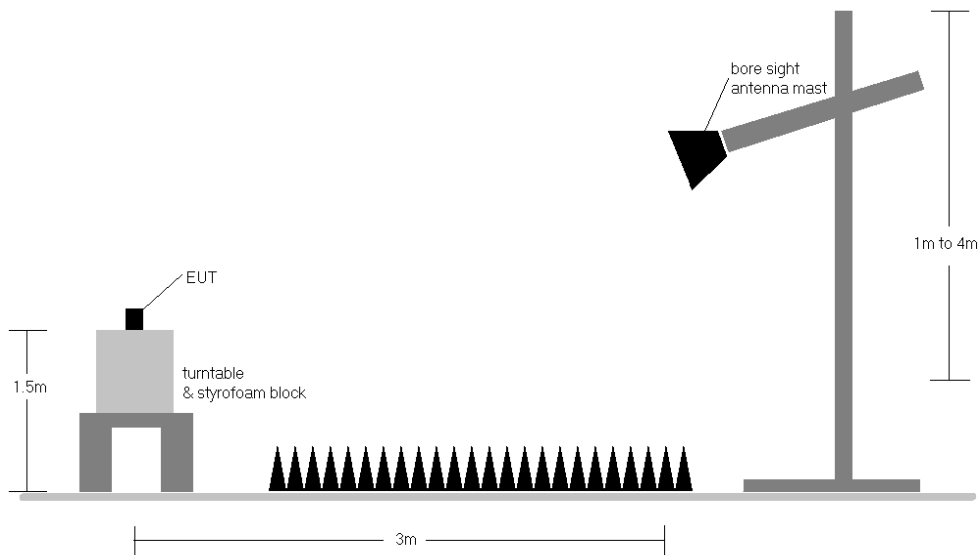
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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### Test Setup

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



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



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

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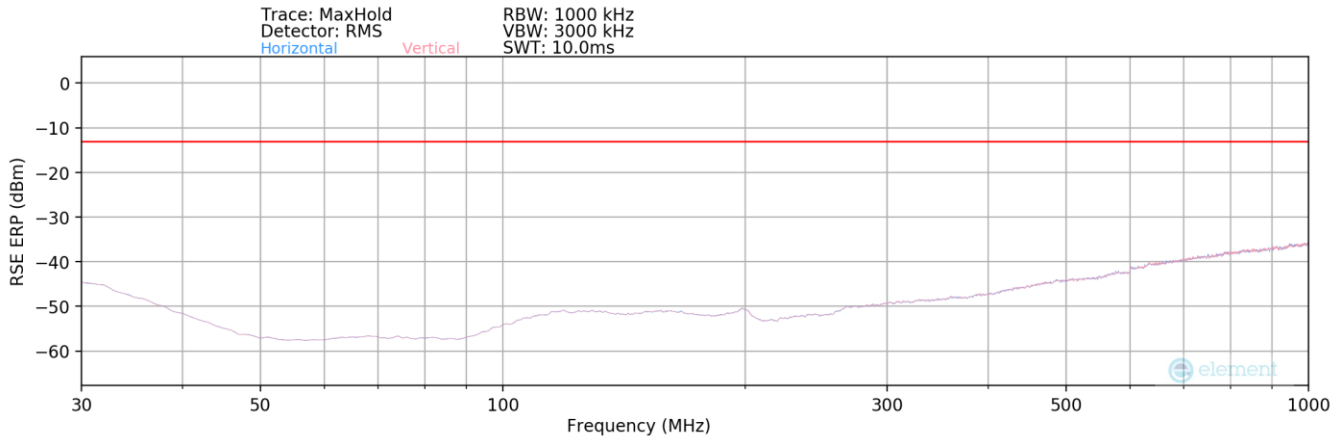
**Test Notes**

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - 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.

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## NR Band n77 (PC2) - DoD Band – SRS-1



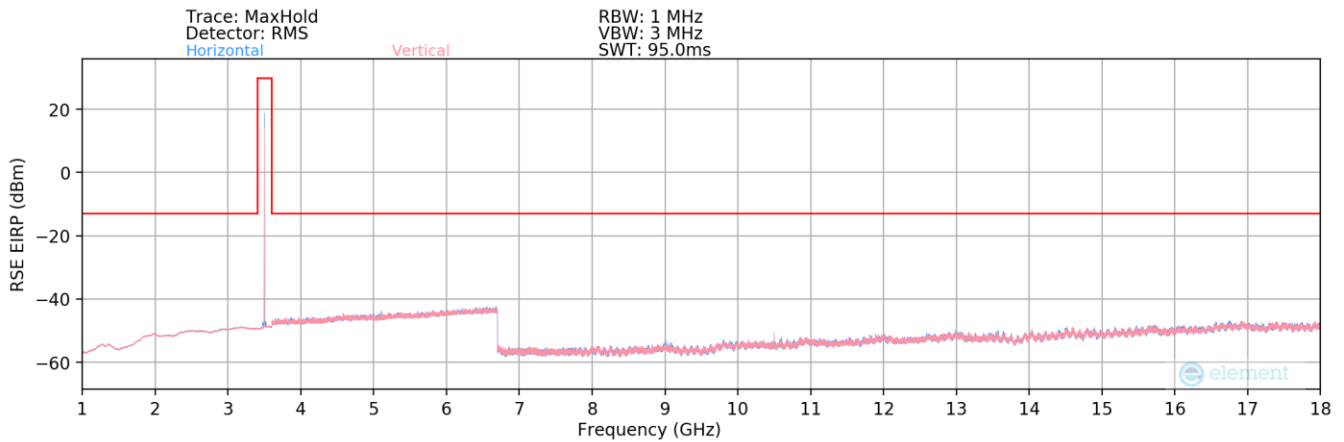
Plot 7-253. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - DoD Band – SRS-1)

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

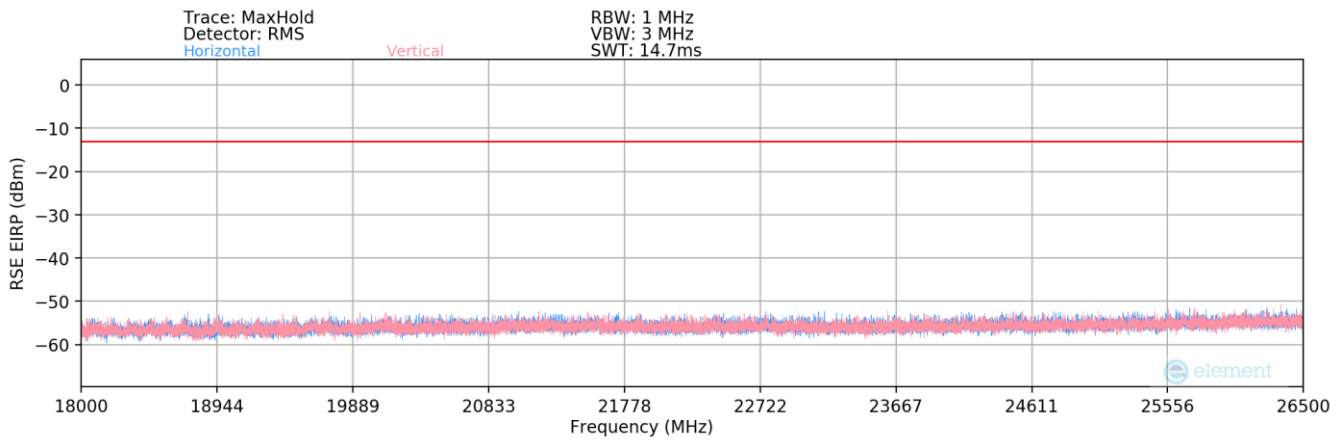
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
507.00	V	-	-	-95.79	26.30	37.51	-59.90	-13.00	-46.90

Table 7-25. Radiated Spurious Data – Below 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-1)

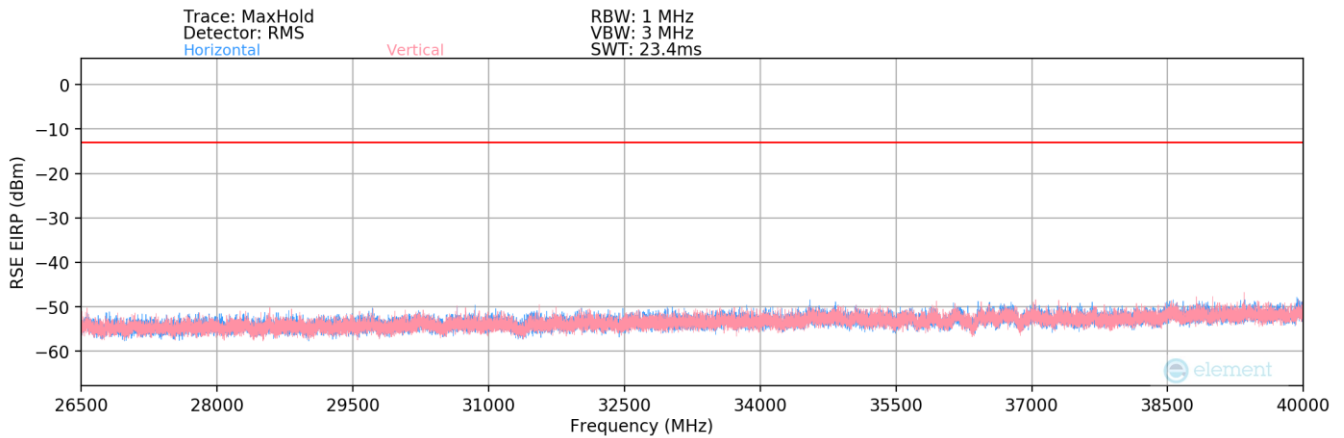
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 167 of 199



**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: A3LSMS918U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Bandwidth (MHz):	50
Frequency (MHz):	3475.02
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]
6950.04	V	125	239	-69.01	8.20	46.19	-49.07	-13.00	-36.07
10425.06	V	202	240	-73.24	10.84	44.60	-50.66	-13.00	-37.66
13900.08	V	-	-	-80.07	14.24	41.17	-54.09	-13.00	-41.09
17375.10	V	-	-	-79.52	17.98	45.46	-49.80	-13.00	-36.80

Table 7-26. 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	V	132	237	-68.33	8.08	46.75	-48.51	-13.00	-35.51
10500.03	V	279	194	-71.50	11.37	46.87	-48.39	-13.00	-35.39
14000.04	V	-	-	-79.23	14.28	42.05	-53.20	-13.00	-40.20
17500.05	V	-	-	-80.63	17.11	43.48	-51.78	-13.00	-38.78

Table 7-27. Radiated Spurious Data – Above 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-1)

Bandwidth (MHz):	50
Frequency (MHz):	3525.00
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]
7050.00	V	134	235	-66.88	7.54	47.66	-47.60	-13.00	-34.60
10575.00	V	269	184	-73.35	12.47	46.12	-49.13	-13.00	-36.13
14100.00	V	-	-	-79.10	14.56	42.46	-52.79	-13.00	-39.79
17625.00	V	-	-	-79.26	17.05	44.79	-50.47	-13.00	-37.47

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

Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 66

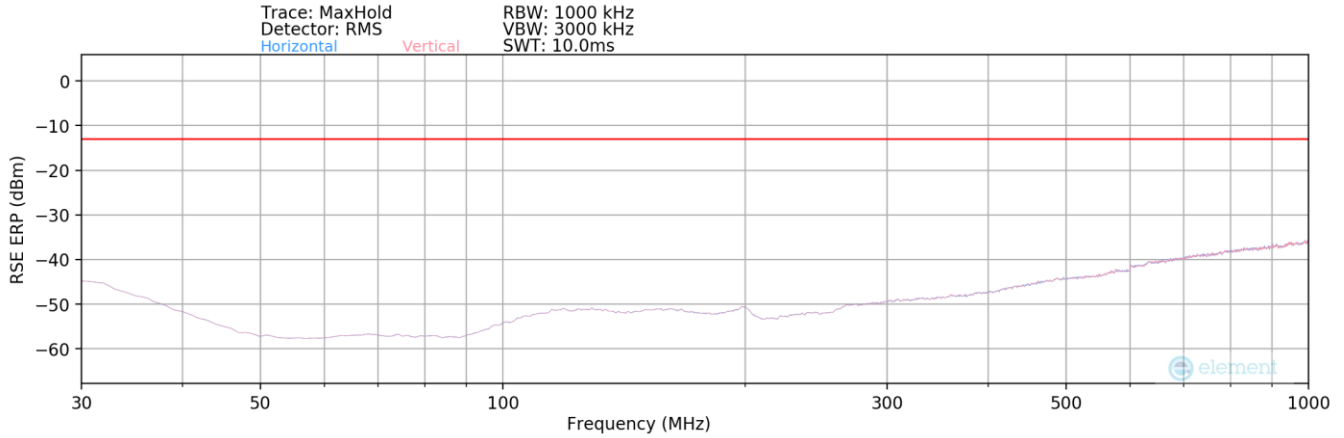
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	V	189	319	-77.56	8.08	37.52	-57.74	-13.00	-44.74
10500.03	V	131	336	-72.42	11.37	45.95	-49.31	-13.00	-36.31
14000.04	V	-	-	-79.94	14.28	41.34	-53.91	-13.00	-40.91
17500.05	V	-	-	-79.55	17.11	44.56	-50.70	-13.00	-37.70
21000.06	V	-	-	-58.65	3.47	51.82	-52.98	-13.00	-39.98
24500.07	V	-	-	-57.98	4.31	53.33	-51.47	-13.00	-38.47

Table 7-29. Radiated Spurious Data w/ Wireless Charging Pad (NR Band n77 – DoD Band – SRS-1)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n77 (PC2) - DoD Band – SRS-2



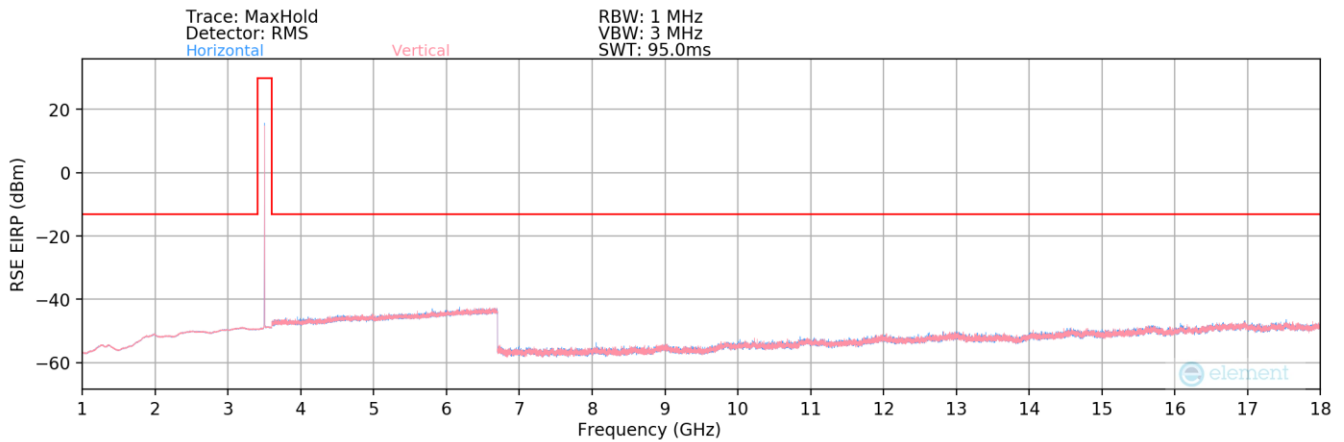
Plot 7-257. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - DoD Band – SRS-2)

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

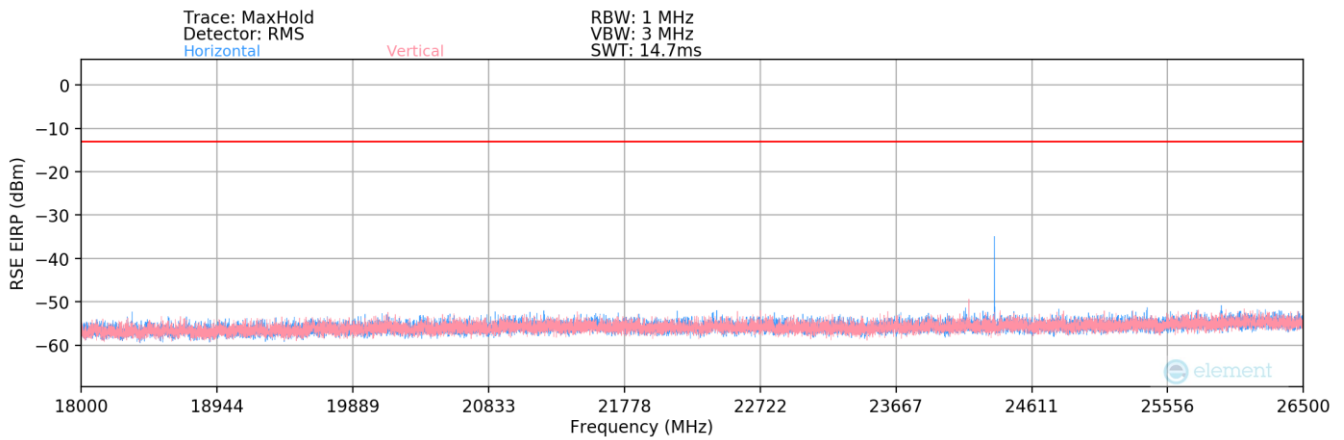
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
487.00	V	-	-	-84.47	25.99	48.52	-48.89	-13.00	-35.89

Table 7-30. Radiated Spurious Data – Below 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-2)

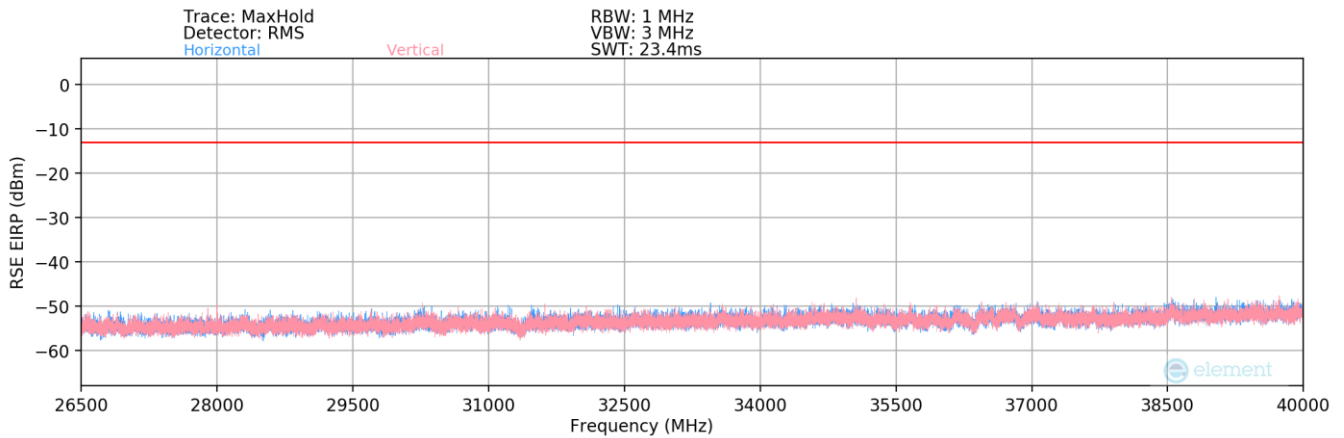
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Plot 7-258. Radiated Spurious Plot – 1-18GHz (NR Band n77 - DoD Band – SRS-2)**



**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: A3LSMS918U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1/136

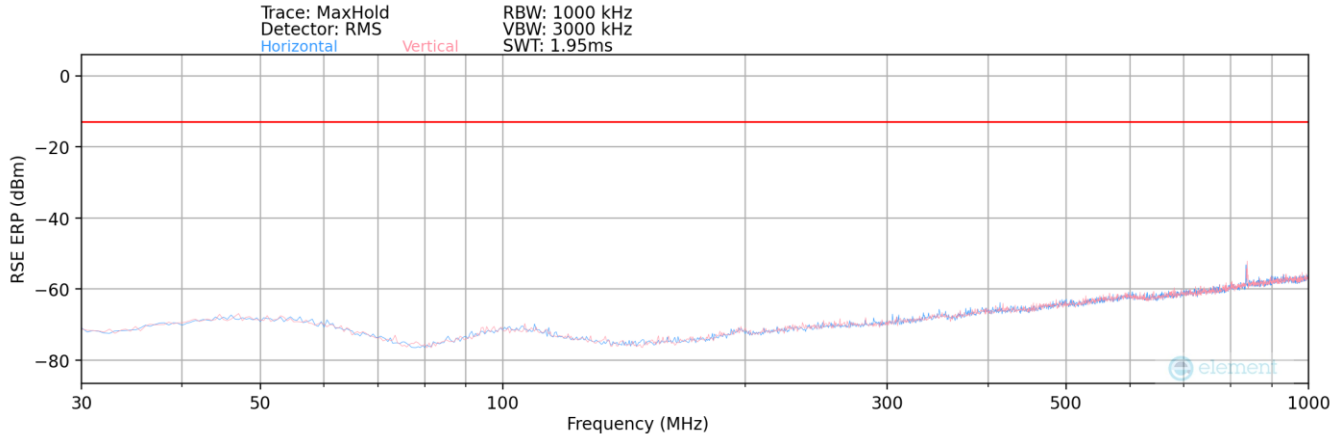
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	V	123	28	-74.63	8.08	40.45	-54.81	-13.00	-41.81
10500.03	V	186	44	-78.63	11.37	39.74	-55.52	-13.00	-42.52
14000.04	V	-	-	-80.09	14.28	41.19	-54.06	-13.00	-41.06
17500.05	V	-	-	-80.10	17.11	44.01	-51.25	-13.00	-38.25
21000.06	V	-	-	-58.53	3.47	51.94	-52.86	-13.00	-39.86
24500.07	V	150	326	-57.02	4.31	54.29	-50.51	-13.00	-37.51
28000.08	V	150	32	-51.75	5.18	60.43	-44.37	-13.00	-31.37
31500.09	V	-	-	-58.33	6.73	55.40	-49.40	-13.00	-36.40

Table 7-31. Radiated Spurious Data – Above 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-2)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n77 (PC2) - DoD Band – SRS-3



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

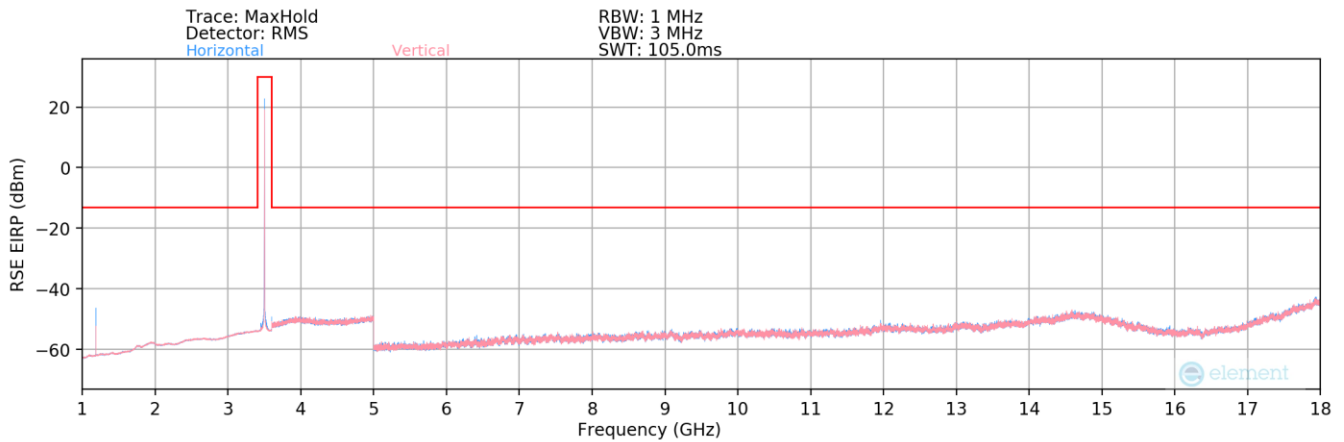
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

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]
429.80	H	-	-	-95.44	24.56	36.12	-61.28	-13.00	-48.28
842.20	H	-	-	-93.77	30.69	43.92	-53.49	-13.00	-40.49

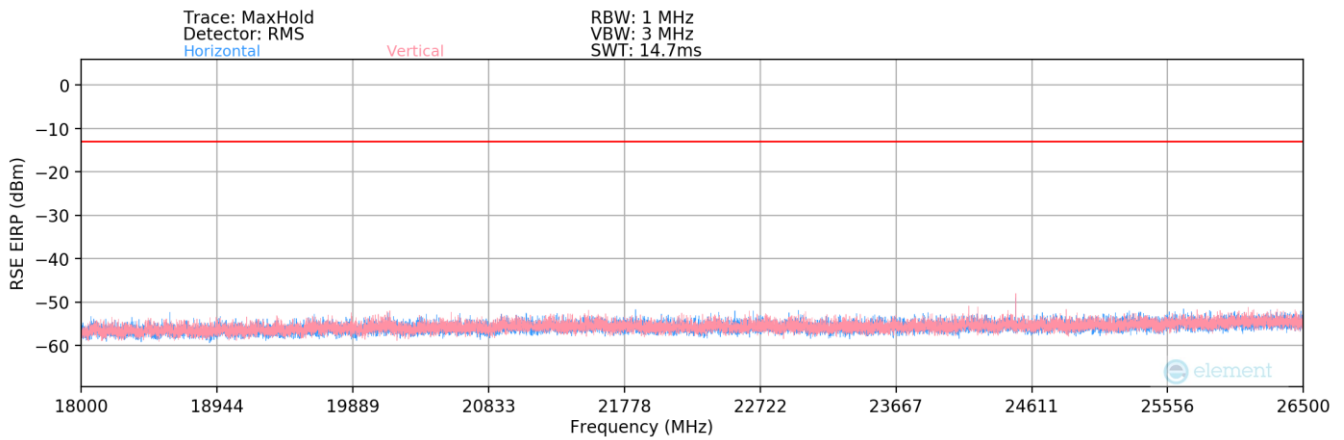
Table 7-32. Radiated Spurious Data – Below 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-3)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 173 of 199

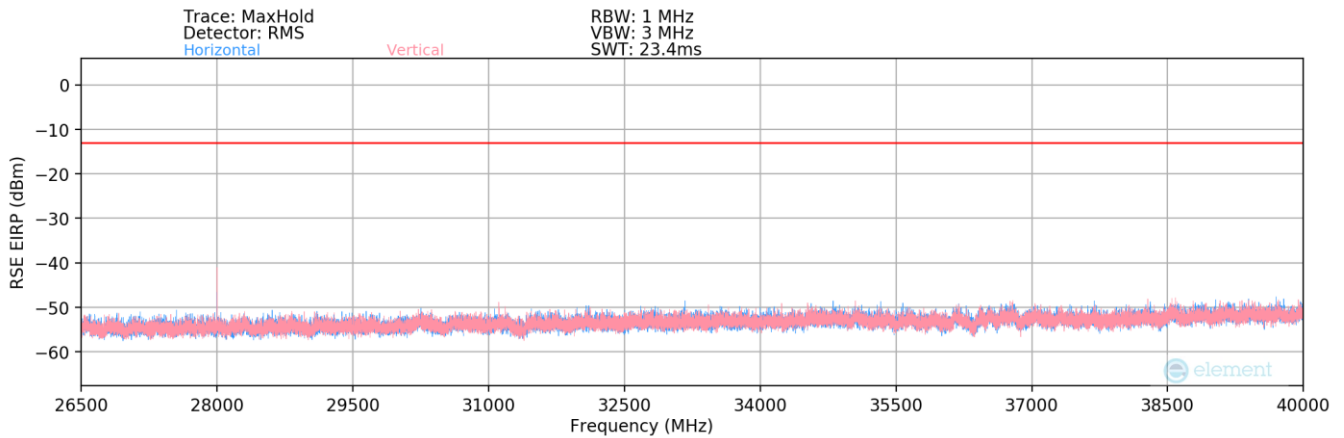




**Plot 7-262. Radiated Spurious Plot – 1-18GHz (NR Band n77 - DoD Band – SRS-3)**



**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: A3LSMS918U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1/136

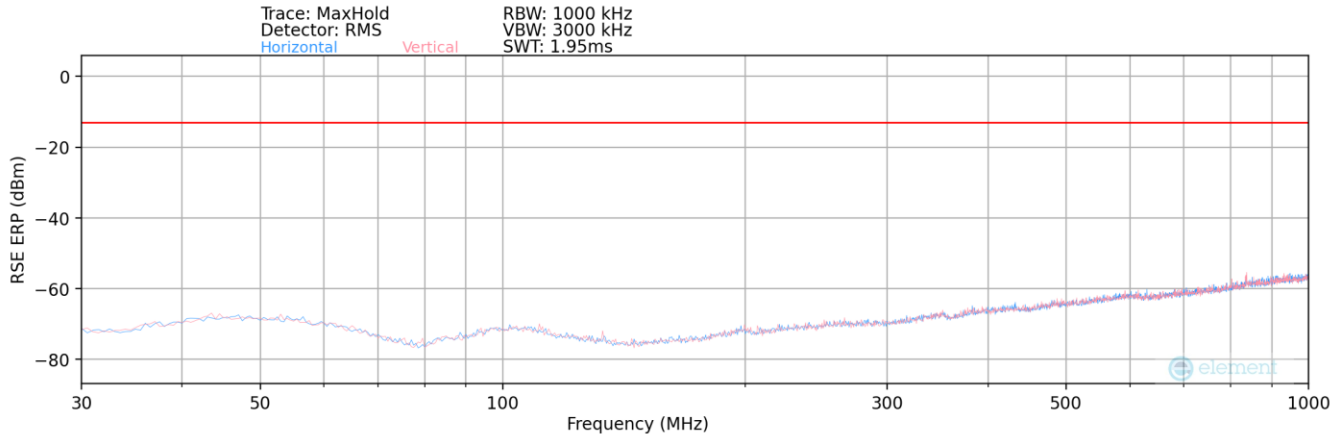
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	H	188	59	-62.67	4.14	48.47	-46.79	-13.00	-33.79
10500.03	H	148	41	-62.35	8.19	52.84	-42.42	-13.00	-29.42
14000.04	H	-	-	-64.81	11.76	53.95	-41.31	-13.00	-28.31
17500.05	H	-	-	-64.62	13.91	56.29	-38.97	-13.00	-25.97
21000.06	H	-	-	-58.54	3.47	51.93	-52.87	-13.00	-39.87
24500.07	H	150	325	-53.89	4.31	57.42	-47.38	-13.00	-34.38
28000.08	H	150	341	-48.57	5.18	63.61	-41.19	-13.00	-28.19
31500.09	H	-	-	-58.50	6.73	55.23	-49.57	-13.00	-36.57

Table 7-33. Radiated Spurious Data – Above 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-3)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 175 of 199



## NR Band n77 (PC2) - DoD Band – SRS-4



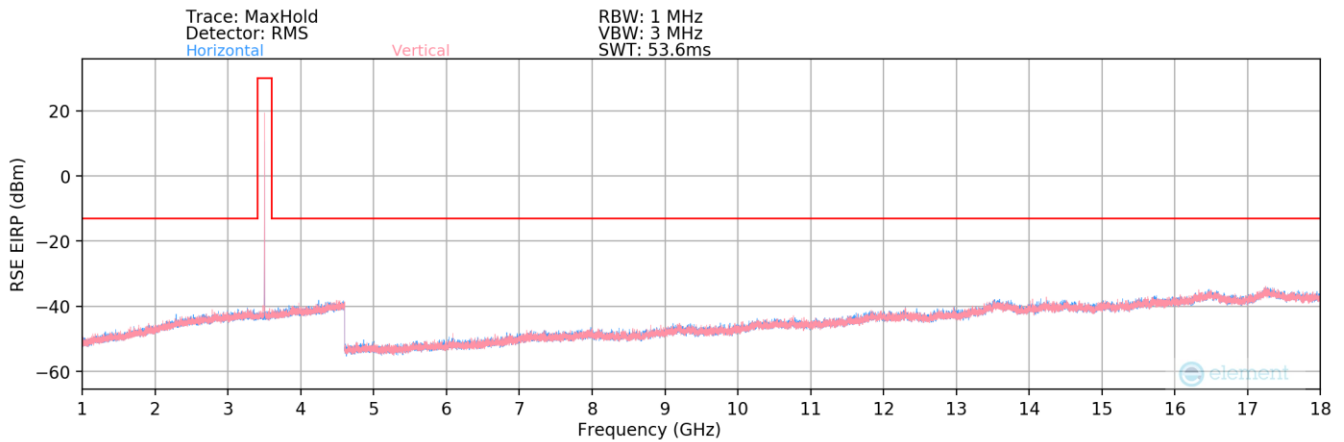
Plot 7-265. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - DoD Band – SRS-4)

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

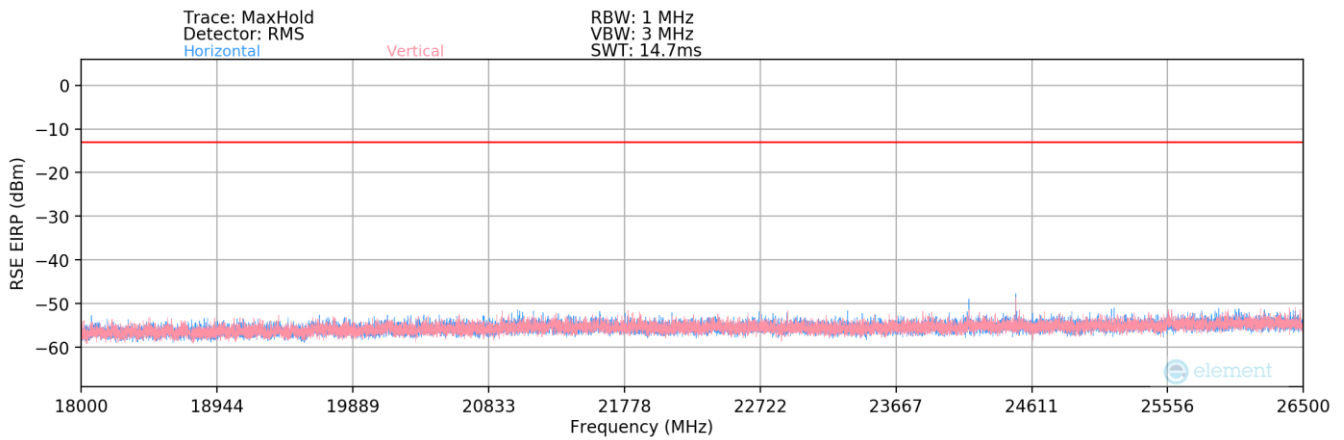
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
142.10	V	-	-	-98.33	19.51	28.18	-69.22	-13.00	-56.22
842.60	V	-	-	-95.01	30.65	42.64	-54.77	-13.00	-41.77

Table 7-34. Radiated Spurious Data – Below 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-4)

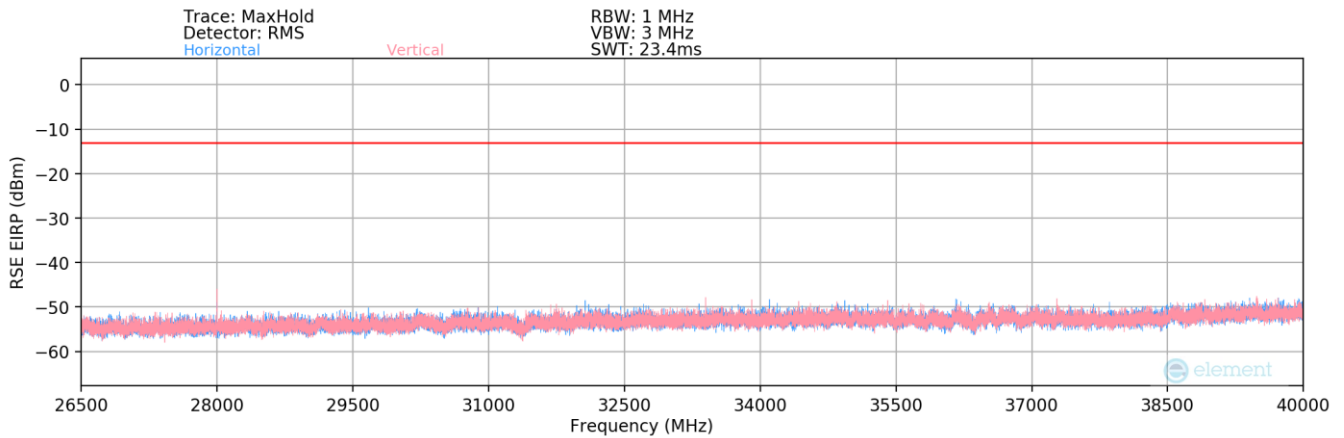
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 176 of 199



**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: A3LSMS918U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 177 of 199



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

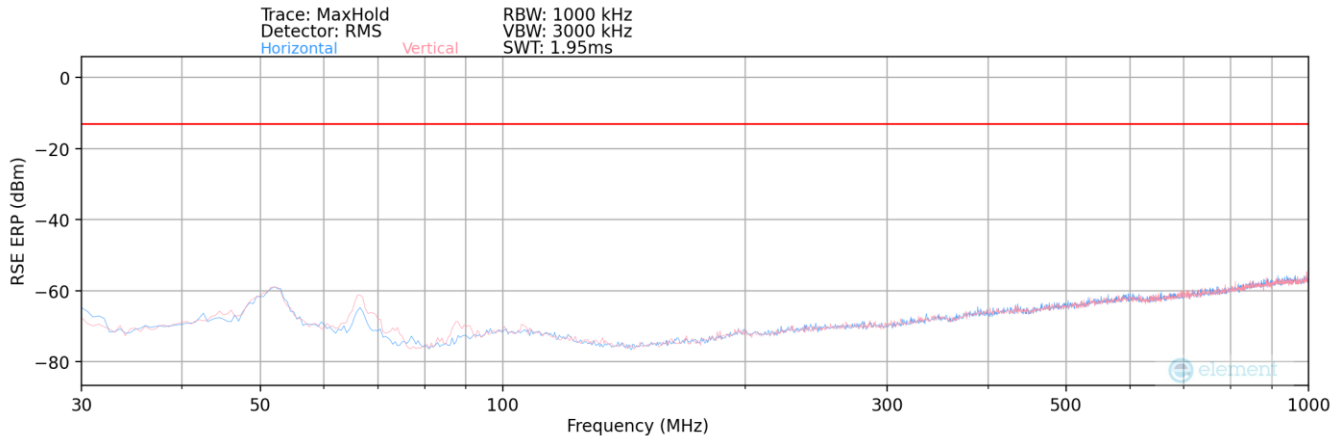
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	V	-	-	-73.01	4.14	38.13	-57.13	-13.00	-44.13
10500.03	V	-	-	-73.26	8.19	41.93	-53.33	-13.00	-40.33
14000.04	V	-	-	-74.84	11.76	43.92	-51.34	-13.00	-38.34
17500.05	V	-	-	-75.22	13.91	45.69	-49.57	-13.00	-36.57
21000.06	V	-	-	-59.23	3.47	51.24	-53.56	-13.00	-40.56
24500.07	V	150	296	-50.31	4.31	61.00	-43.80	-13.00	-30.80
28000.08	V	150	324	-47.82	5.18	64.36	-40.44	-13.00	-27.44
31500.09	V	-	-	-58.07	6.73	55.66	-49.14	-13.00	-36.14

Table 7-35. Radiated Spurious Data – Above 1GHz (NR Band n77 - DoD Band – Mid Channel – SRS-4)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 178 of 199



## 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]
504.00	V	-	-	-96.05	26.02	36.97	-60.44	-13.00	-47.44

Table 7-36. Radiated Spurious Data – Below 1GHz (NR Band n77 - C-Band – Mid Channel – SRS-1)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-10.A3L	Test Dates: 10/13/2022 - 11/16/2022	EUT Type: Portable Handset	Page 179 of 199