Plot 7-203. PAR Plot (NR Band n77 (DoD)- 10MHz CP-OFDM 256-QAM - Full RB - Ant F)

NR Band n77 – C-Band-SRS-1-Ant F

Plot 7-204. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB - Ant F)

Plot 7-205. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Ant F)

Plot 7-206. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant F)

Plot 7-207. PAR Plot (NR Band n77 - 90MHz DFT-s-OFDM BPSK - Full RB - Ant F)

Plot 7-208. PAR Plot (NR Band n77 - 90MHz CP-OFDM QPSK - Full RB - Ant F)

Plot 7-209. PAR Plot (NR Band n77 - 90MHz CP-OFDM 256-QAM - Full RB - Ant F)

Plot 7-210. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM BPSK - Full RB - Ant F)

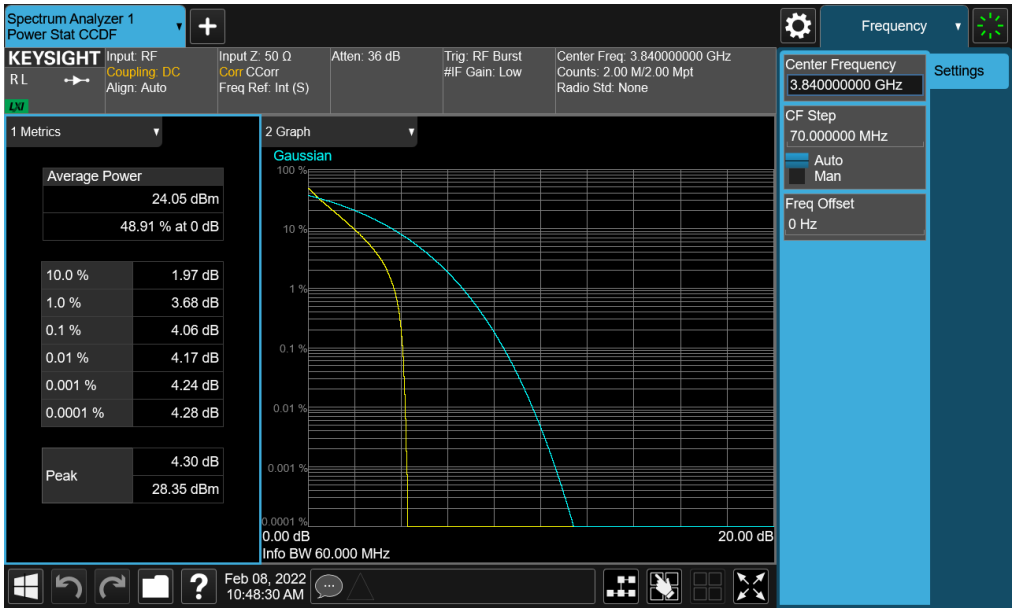
Plot 7-211. PAR Plot (NR Band n77 - 80MHz CP-OFDM QPSK - Full RB - Ant F)

Plot 7-212. PAR Plot (NR Band n77 - 80MHz CP-OFDM 256-QAM - Full RB - Ant F)

Plot 7-213. PAR Plot (NR Band n77 - 70MHz DFT-s-OFDM BPSK - Full RB - Ant F)

Plot 7-214. PAR Plot (NR Band n77 - 70MHz CP-OFDM QPSK - Full RB - Ant F)

Plot 7-215. PAR Plot (NR Band n77 - 70MHz CP-OFDM 256-QAM - Full RB - Ant F)



Plot 7-216. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM BPSK - Full RB - Ant F)

Plot 7-217. PAR Plot (NR Band n77 - 60MHz CP-OFDM QPSK - Full RB - Ant F)

Plot 7-218. PAR Plot (NR Band n77 - 60MHz CP-OFDM 256-QAM - Full RB - Ant F)

Plot 7-219. PAR Plot (NR Band n77 - 50MHz DFT-s-OFDM BPSK - Full RB - Ant F)

Plot 7-220. PAR Plot (NR Band n77 - 50MHz CP-OFDM QPSK - Full RB - Ant F)

Plot 7-221. PAR Plot (NR Band n77 - 50MHz CP-OFDM 256-QAM - Full RB - Ant F)

Plot 7-222. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM BPSK - Full RB - Ant F)

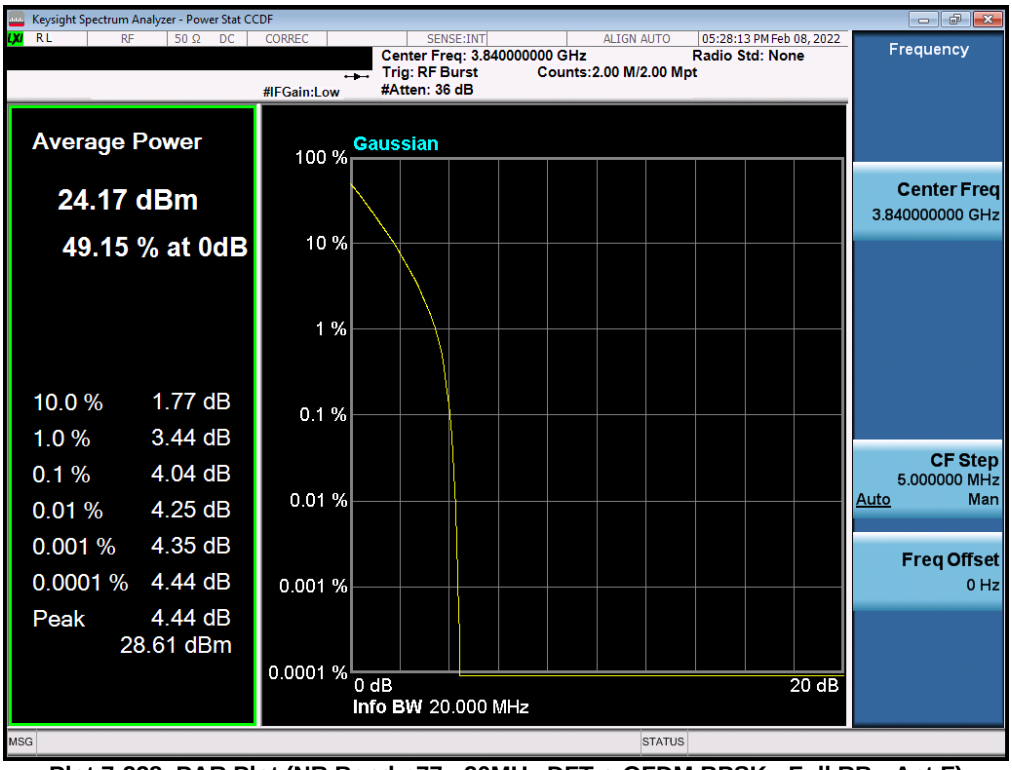
Plot 7-223. PAR Plot (NR Band n77 - 40MHz CP-OFDM QPSK - Full RB - Ant F)

Plot 7-224. PAR Plot (NR Band n77 - 40MHz CP-OFDM 256-QAM - Full RB - Ant F)

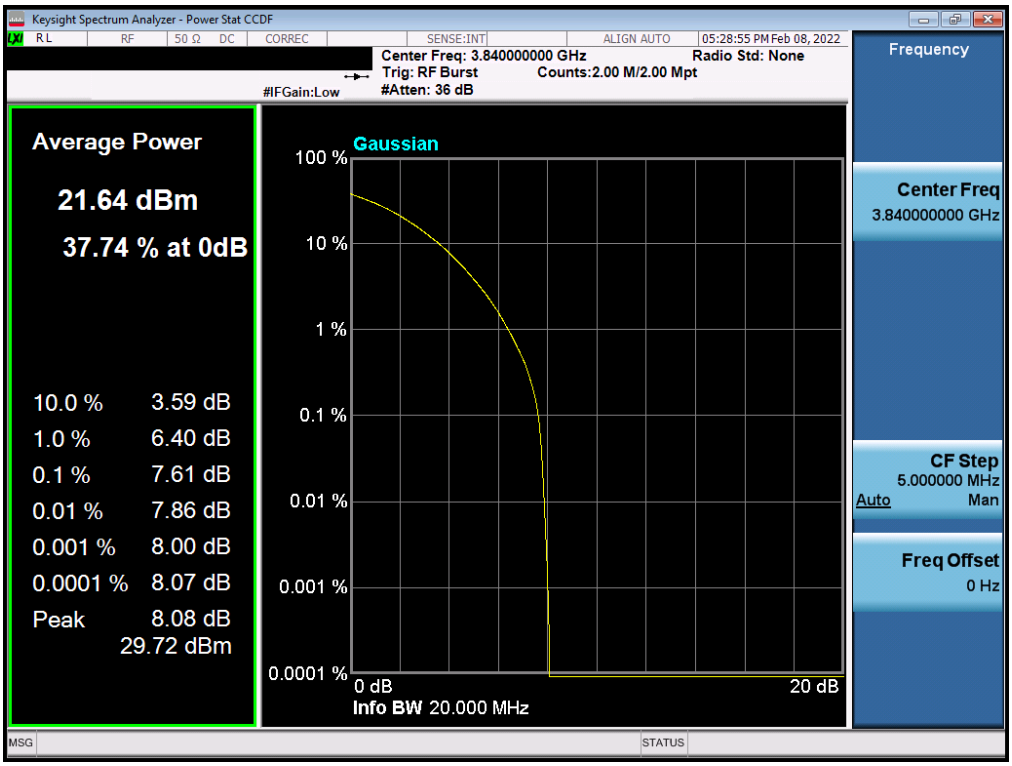
Plot 7-225. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM BPSK - Full RB - Ant F)

Plot 7-226. PAR Plot (NR Band n77 - 30MHz CP-OFDM QPSK - Full RB - Ant F)

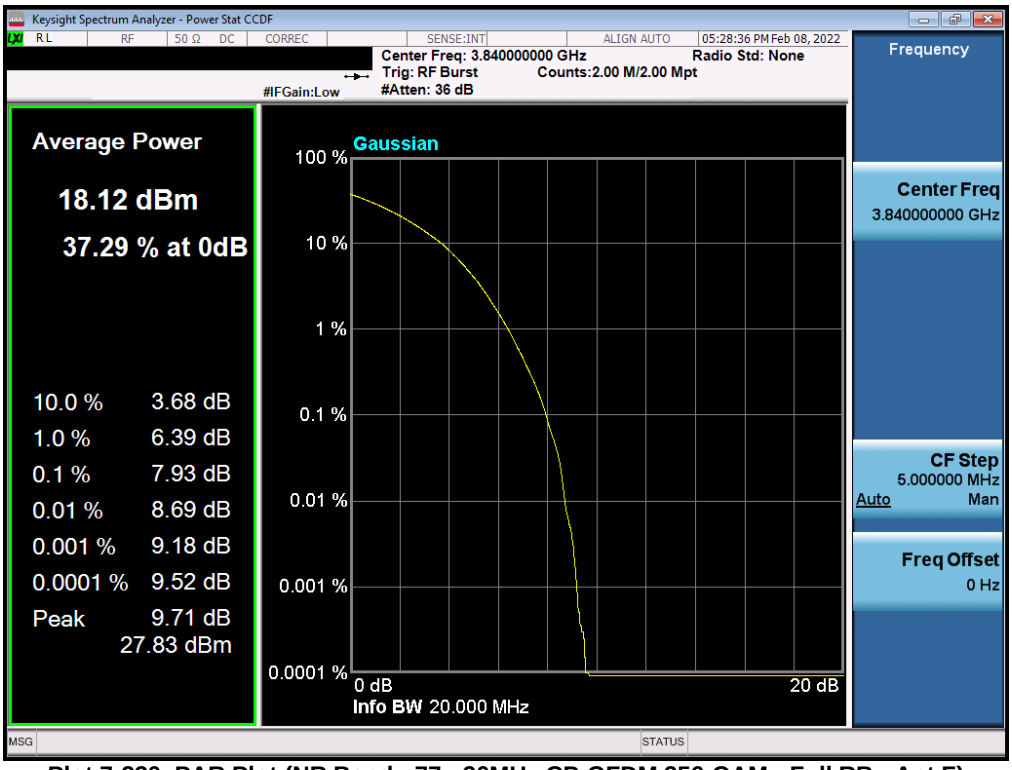
Plot 7-227. PAR Plot (NR Band n77 - 30MHz CP-OFDM 256-QAM - Full RB - Ant F)



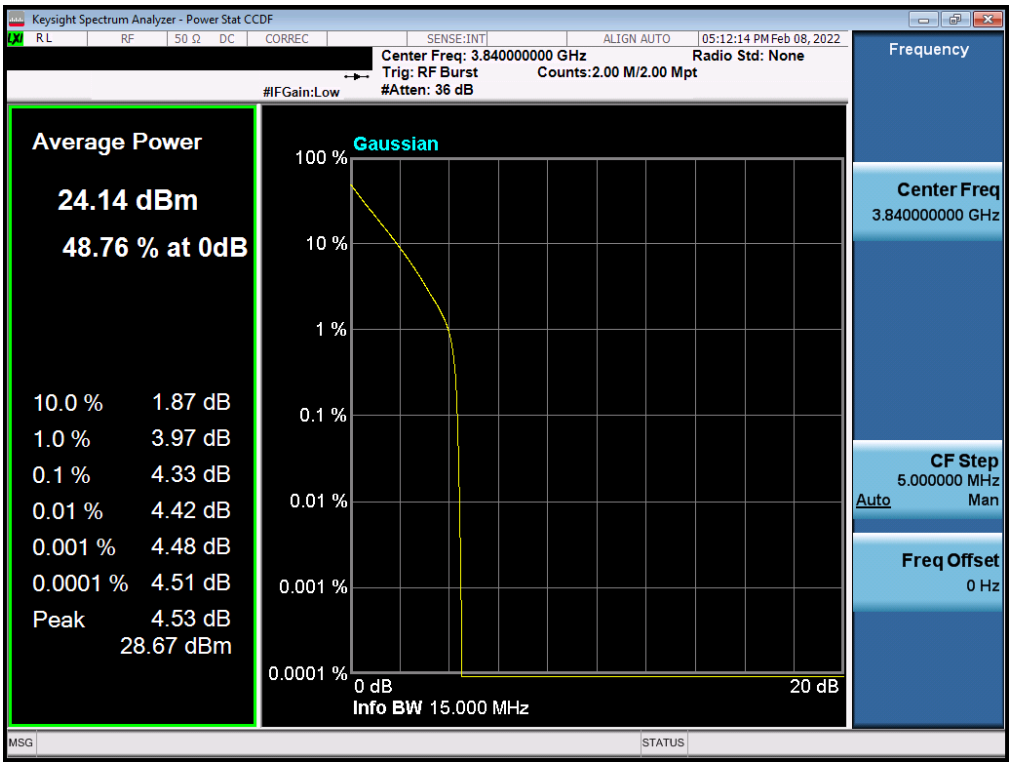
Plot 7-228. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM BPSK - Full RB - Ant F)



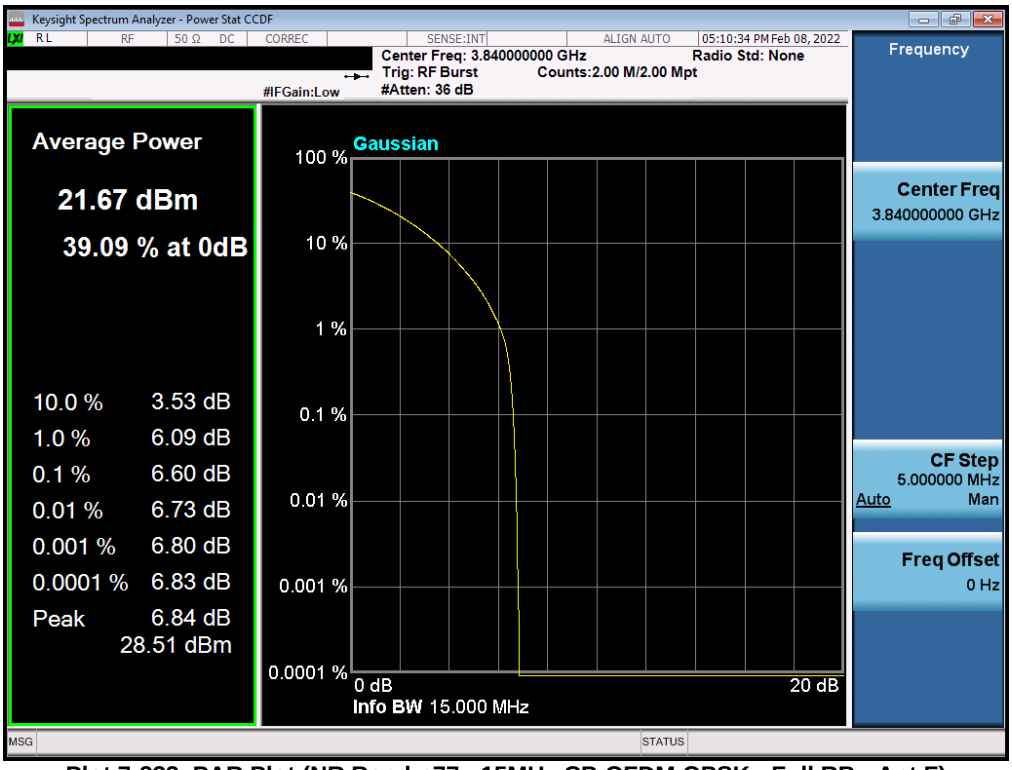
Plot 7-229. PAR Plot (NR Band n77 - 20MHz CP-OFDM QPSK - Full RB - Ant F)



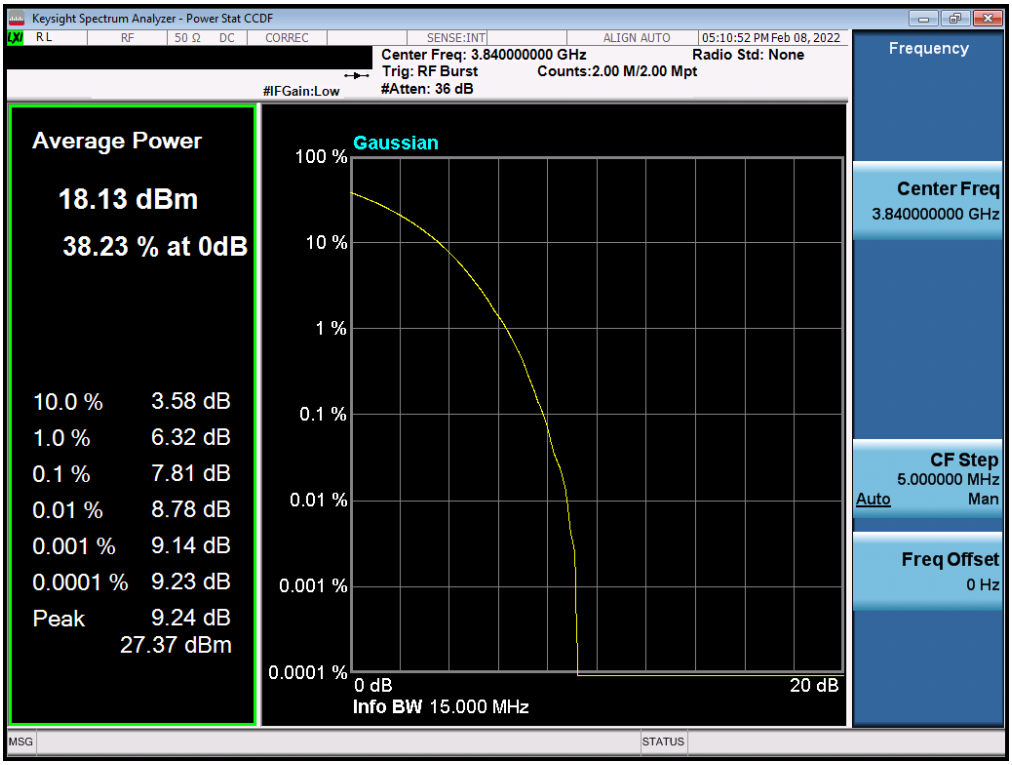
Plot 7-230. PAR Plot (NR Band n77 - 20MHz CP-OFDM 256-QAM - Full RB - Ant F)



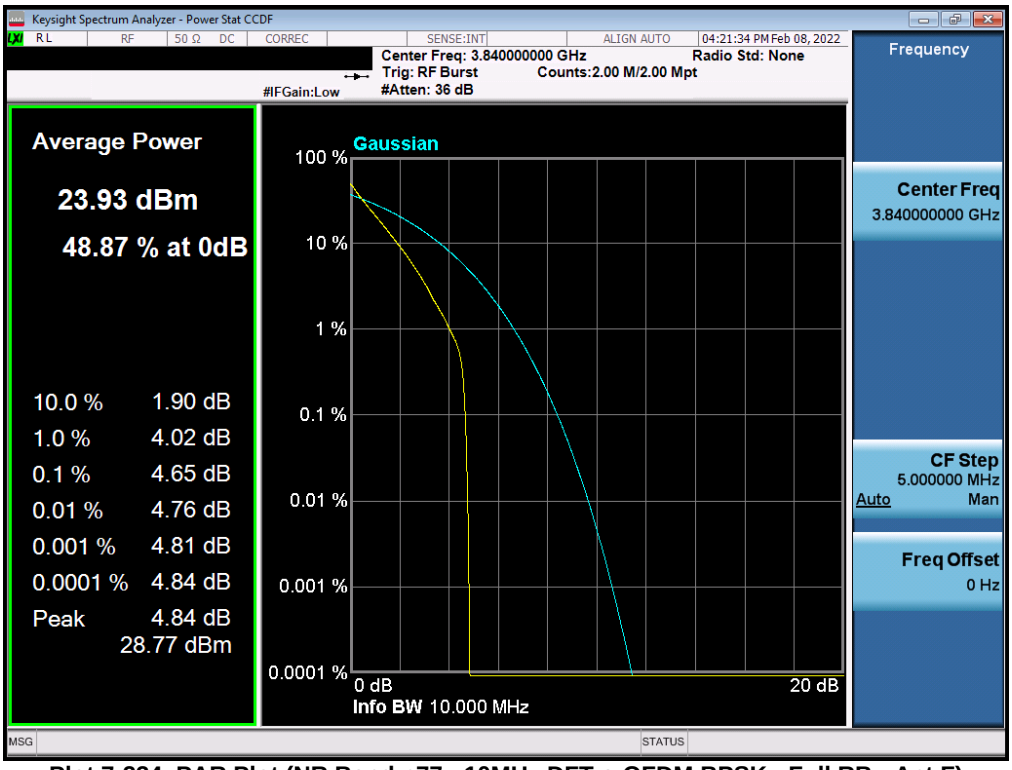
Plot 7-231. PAR Plot (NR Band n77 - 15MHz DFT-s-OFDM BPSK - Full RB - Ant F)



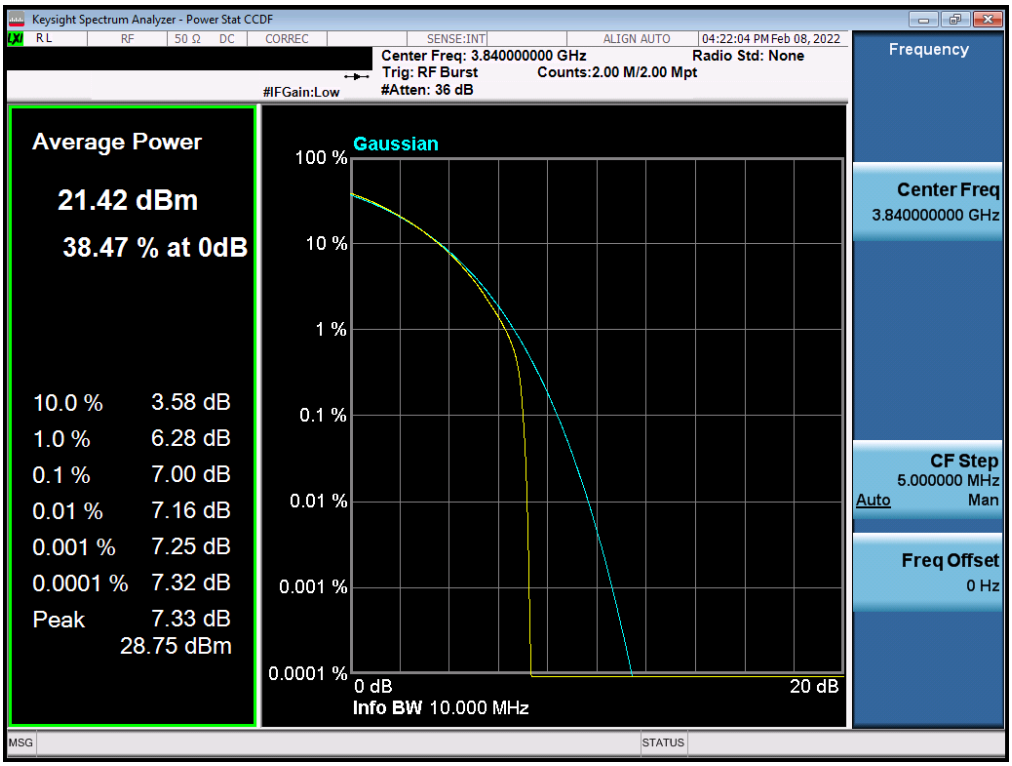
Plot 7-232. PAR Plot (NR Band n77 - 15MHz CP-OFDM QPSK - Full RB - Ant F)



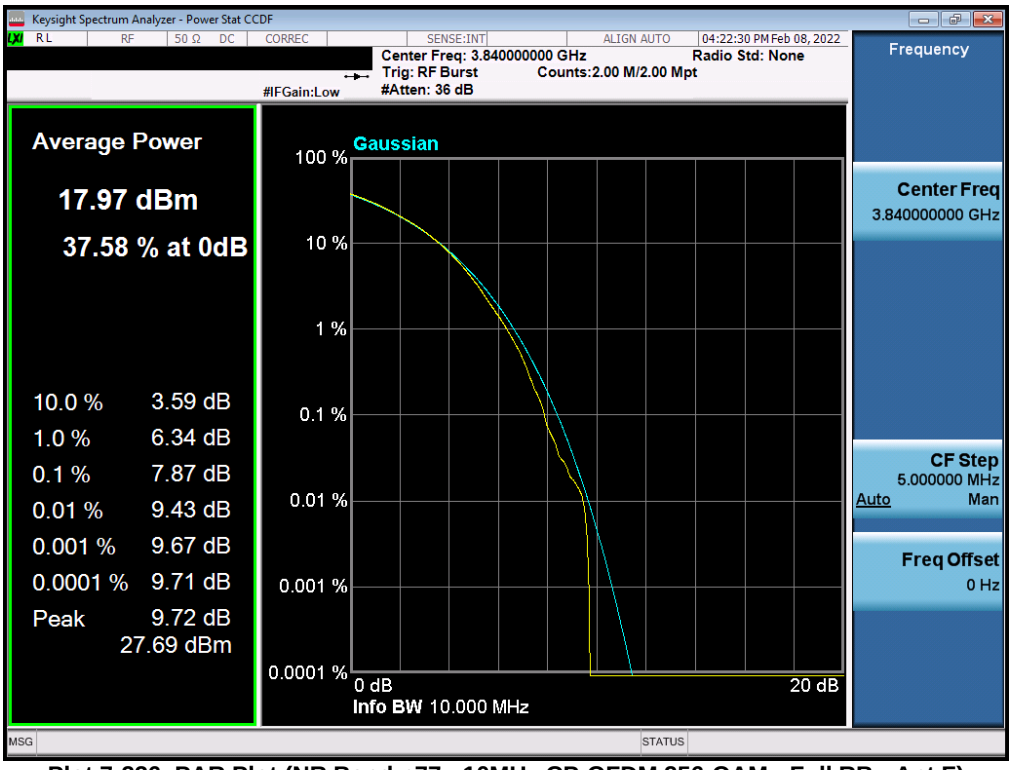
Plot 7-233. PAR Plot (NR Band n77 - 15MHz CP-OFDM 256-QAM - Full RB - Ant F)



Plot 7-234. PAR Plot (NR Band n77 - 10MHz DFT-s-OFDM BPSK - Full RB - Ant F)



Plot 7-235. PAR Plot (NR Band n77 - 10MHz CP-OFDM QPSK - Full RB - Ant F)



Plot 7-236. PAR Plot (NR Band n77 - 10MHz CP-OFDM 256-QAM - Full RB - Ant F)

7.7 Radiated Power (EIRP)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz 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

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI/TIA-603-E-2016 – Section 2.2.17

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 ≥ 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points ≥ 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

Test Setup

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

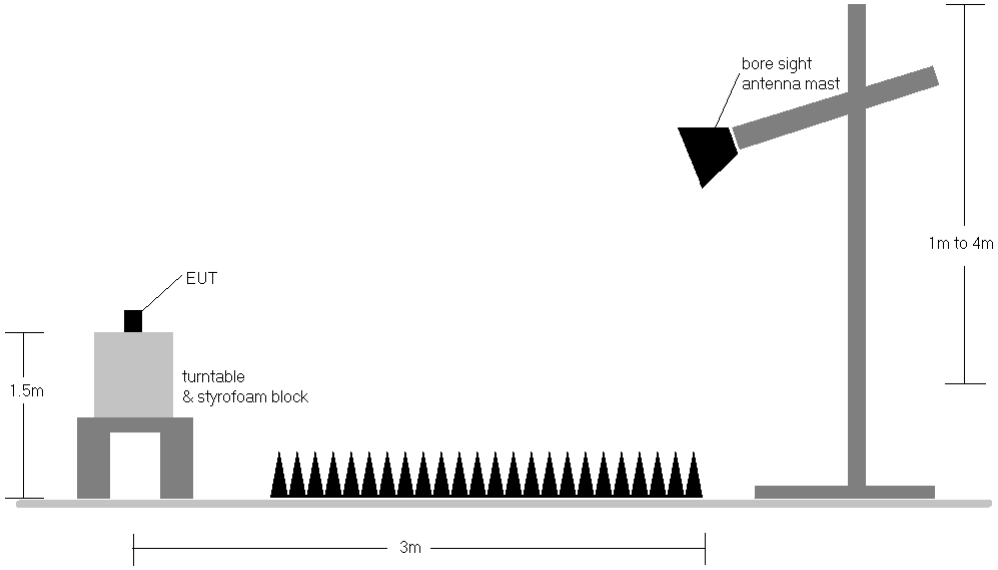


Figure 7-6. Radiated Test Setup >1GHz

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) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.

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

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	π/2 BPSK	3500.01	V	105	275	7.16	1 / 136	14.78	21.94	0.156	30.00	-8.06
	QPSK	3500.01	V	105	275	7.16	1 / 136	14.82	**21.98**	0.158	30.00	-8.02
	16-QAM	3500.01	V	105	275	7.16	1 / 136	12.44	19.60	0.091	30.00	-10.40
90 MHz	π/2 BPSK	3495.00	V	105	275	7.20	1 / 122	14.73	21.94	0.156	30.00	-8.06
	π/2 BPSK	3500.01	V	105	275	7.16	1 / 122	14.69	21.85	0.153	30.00	-8.15
	π/2 BPSK	3504.99	V	105	275	7.16	1 / 61	14.71	21.87	0.154	30.00	-8.13
	QPSK	3495.00	V	105	275	7.20	1 / 122	14.85	22.05	0.161	30.00	-7.95
	QPSK	3500.01	V	105	275	7.16	1 / 122	14.78	21.94	0.156	30.00	-8.06
	QPSK	3504.99	V	105	275	7.16	1 / 61	15.19	**22.35**	0.172	30.00	-7.65
	16-QAM	3504.99	V	105	275	7.16	1 / 61	13.20	20.36	0.109	30.00	-9.64
80 MHz	π/2 BPSK	3490.02	V	105	275	7.25	1 / 54	14.97	22.21	0.167	30.00	-7.79
	π/2 BPSK	3500.01	V	105	275	7.16	1 / 54	14.99	22.15	0.164	30.00	-7.85
	π/2 BPSK	3510.00	V	105	275	7.16	1 / 54	15.26	**22.42**	0.175	30.00	-7.58
	QPSK	3490.02	V	105	275	7.25	1 / 54	14.94	22.19	0.165	30.00	-7.81
	QPSK	3500.01	V	105	275	7.16	1 / 54	14.97	22.13	0.163	30.00	-7.87
	QPSK	3510.00	V	105	275	7.16	1 / 54	14.63	21.79	0.151	30.00	-8.21
	16-QAM	3490.02	V	105	275	7.25	1 / 54	12.79	20.04	0.101	30.00	-9.96
70 MHz	π/2 BPSK	3485.01	V	105	275	7.29	1 / 141	15.19	**22.48**	0.177	30.00	-7.52
	π/2 BPSK	3500.01	V	105	275	7.16	1 / 47	15.31	22.47	0.177	30.00	-7.53
	π/2 BPSK	3514.98	V	105	275	7.16	1 / 47	15.12	22.28	0.169	30.00	-7.72
	QPSK	3485.01	V	105	275	7.29	1 / 141	14.98	22.27	0.169	30.00	-7.73
	QPSK	3500.01	V	105	275	7.16	1 / 47	15.16	22.32	0.171	30.00	-7.68
	QPSK	3514.98	V	105	275	7.16	1 / 47	14.99	22.15	0.164	30.00	-7.85
	16-QAM	3500.01	V	105	275	7.16	1 / 47	13.76	20.92	0.124	30.00	-9.08
60 MHz	π/2 BPSK	3480.00	V	105	275	7.33	1 / 40	14.98	22.31	0.170	30.00	-7.69
	π/2 BPSK	3500.01	V	105	275	7.16	1 / 81	15.28	**22.44**	0.175	30.00	-7.56
	π/2 BPSK	3519.99	V	105	275	7.16	1 / 40	14.84	22.00	0.158	30.00	-8.00
	QPSK	3480.00	V	105	275	7.33	1 / 40	14.91	22.25	0.168	30.00	-7.75
	QPSK	3500.01	V	105	275	7.16	1 / 81	15.05	22.21	0.166	30.00	-7.79
	QPSK	3519.99	V	105	275	7.16	1 / 40	15.00	22.16	0.164	30.00	-7.84
	16-QAM	3480.00	V	105	275	7.33	1 / 40	13.30	20.63	0.116	30.00	-9.37
50 MHz	π/2 BPSK	3475.02	V	105	275	7.38	1 / 66	14.67	22.05	0.160	30.00	-7.95
	π/2 BPSK	3500.01	V	105	275	7.16	1 / 33	15.22	**22.38**	0.173	30.00	-7.62
	π/2 BPSK	3525.00	V	105	275	7.16	1 / 66	14.47	21.62	0.145	30.00	-8.38
	QPSK	3475.02	V	105	275	7.38	1 / 66	14.83	22.21	0.166	30.00	-7.79
	QPSK	3500.01	V	105	275	7.16	1 / 33	15.20	22.36	0.172	30.00	-7.64
	QPSK	3525.00	V	105	275	7.16	1 / 66	14.55	21.71	0.148	30.00	-8.29
	16-QAM	3500.01	V	105	275	7.16	1 / 33	13.29	20.45	0.111	30.00	-9.55
40 MHz	π/2 BPSK	3470.01	V	105	275	7.42	1 / 26	15.01	22.44	0.175	30.00	-7.56
	π/2 BPSK	3500.01	V	105	275	7.16	106 / 0	14.72	21.88	0.154	30.00	-8.12
	π/2 BPSK	3529.98	V	105	275	7.16	1 / 26	15.33	22.49	0.177	30.00	-7.51
	QPSK	3470.01	V	105	275	7.42	1 / 26	14.84	22.26	0.168	30.00	-7.74
	QPSK	3500.01	V	105	275	7.16	1 / 26	15.37	**22.53**	0.179	30.00	-7.47
	QPSK	3529.98	V	105	275	7.16	1 / 26	15.00	22.15	0.164	30.00	-7.85
	16-QAM	3529.98	V	105	275	7.16	1 / 26	13.31	20.47	0.111	30.00	-9.53
30 MHz	π/2 BPSK	3465.00	V	105	275	7.46	1 / 19	14.73	22.20	0.166	30.00	-7.80
	π/2 BPSK	3500.01	V	105	275	7.16	1 / 19	15.14	22.30	0.170	30.00	-7.70
	π/2 BPSK	3534.99	V	105	275	7.16	1 / 19	15.30	22.46	0.176	30.00	-7.54
	QPSK	3465.00	V	105	275	7.46	1 / 19	14.04	21.51	0.141	30.00	-8.49
	QPSK	3500.01	V	105	275	7.16	1 / 19	15.36	**22.52**	0.179	30.00	-7.48
	QPSK	3534.99	V	105	275	7.16	1 / 19	15.24	22.40	0.174	30.00	-7.60
	16-QAM	3500.01	V	105	275	7.16	1 / 19	13.79	20.95	0.125	30.00	-9.05
20 MHz	π/2 BPSK	3460.02	V	105	275	7.51	1 / 13	14.85	22.35	0.172	30.00	-7.65
	π/2 BPSK	3500.01	V	105	275	7.16	1 / 13	15.28	22.44	0.175	30.00	-7.56
	π/2 BPSK	3540.00	V	105	275	7.16	1 / 13	14.97	22.13	0.163	30.00	-7.87
	QPSK	3460.02	V	105	275	7.51	1 / 13	14.95	**22.45**	0.176	30.00	-7.55
	QPSK	3500.01	V	105	275	7.16	1 / 13	15.13	22.29	0.169	30.00	-7.71
	QPSK	3540.00	V	105	275	7.16	1 / 13	15.05	22.21	0.166	30.00	-7.79
	16-QAM	3460.02	V	105	275	7.51	1 / 13	13.41	20.92	0.124	30.00	-9.08
15 MHz	π/2 BPSK	3457.50	V	105	275	7.53	1 / 19	14.84	22.37	0.173	30.00	-7.63
	π/2 BPSK	3500.01	V	105	275	7.16	1 / 19	14.86	22.02	0.159	30.00	-7.98
	π/2 BPSK	3542.49	V	105	275	7.16	1 / 19	15.06	22.22	0.167	30.00	-7.78
	QPSK	3457.50	V	105	275	7.53	1 / 19	14.93	**22.46**	0.176	30.00	-7.54
	QPSK	3500.01	V	105	275	7.16	1 / 19	14.39	21.55	0.143	30.00	-8.45
	QPSK	3542.49	V	105	275	7.16	1 / 19	14.36	21.52	0.142	30.00	-8.48
	16-QAM	3457.50	V	105	275	7.53	1 / 19	12.43	19.96	0.099	30.00	-10.04
10 MHz	π/2 BPSK	3455.01	V	105	275	7.55	1 / 6	14.62	22.17	0.165	30.00	-7.83
	π/2 BPSK	3500.01	V	105	275	7.16	1 / 12	15.30	22.46	0.176	30.00	-7.54
	π/2 BPSK	3544.98	V	105	275	7.16	1 / 17	15.01	22.17	0.165	30.00	-7.83
	QPSK	3455.01	V	105	275	7.55	1 / 6	14.97	**22.52**	0.179	30.00	-7.48
	QPSK	3500.01	V	105	275	7.16	1 / 12	15.17	22.33	0.171	30.00	-7.67
	QPSK	3544.98	V	105	275	7.16	1 / 17	14.89	22.04	0.160	30.00	-7.96
	16-QAM	3500.01	V	105	275	7.16	1 / 12	13.49	20.65	0.116	30.00	-9.35
100 MHz	QPSK (CP-OFDM)	3500.0	V	105	275	7.16	1/136	13.94	21.10	0.129	30.00	-8.90
	QPSK (Opposite Pol.)	3500.0	H	129	309	7.74	1/68	13.17	20.91	0.123	30.00	-9.09
	QPSK (WCP)	3500.0	V	105	275	7.16	1/68	13.09	20.25	0.106	30.00	-9.75

Table 7-10. EIRP Data (NR Band n77 (DoD) – SRS-1-Ant F)

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	π/2 BPSK	3750.00	V	106	286	6.83	1 / 136	12.73	19.56	0.090	30.00	-10.44
	π/2 BPSK	3840.00	V	100	284	6.47	1 / 68	13.71	**20.18**	0.104	30.00	-9.82
	π/2 BPSK	3930.00	V	101	276	6.49	1 / 68	13.51	20.00	0.100	30.00	-10.00
	QPSK	3750.00	V	106	286	6.83	1 / 136	12.85	19.68	0.093	30.00	-10.32
	QPSK	3840.00	V	100	284	6.47	1 / 68	13.53	20.00	0.100	30.00	-10.00
	QPSK	3930.00	V	101	276	6.49	1 / 136	13.34	19.83	0.096	30.00	-10.17
	16-QAM	3930.00	V	101	276	6.49	1 / 68	12.06	18.55	0.072	30.00	-11.45
90 MHz	π/2 BPSK	3745.02	V	106	286	6.81	1 / 183	12.76	19.57	0.091	30.00	-10.43
	π/2 BPSK	3840.00	V	100	284	6.47	1 / 61	14.12	**20.59**	0.115	30.00	-9.41
	π/2 BPSK	3934.98	V	101	276	6.49	1 / 183	13.57	20.05	0.101	30.00	-9.95
	QPSK	3745.02	V	106	286	6.81	1 / 183	12.66	19.47	0.089	30.00	-10.53
	QPSK	3840.00	V	100	284	6.47	1 / 61	14.03	20.50	0.112	30.00	-9.50
	QPSK	3934.98	V	101	276	6.49	1 / 183	12.98	19.46	0.088	30.00	-10.54
	16-QAM	3934.98	V	101	276	6.49	1 / 183	12.43	18.91	0.078	30.00	-11.09
80 MHz	π/2 BPSK	3740.01	V	106	286	6.78	1 / 162	13.24	20.02	0.101	30.00	-9.98
	π/2 BPSK	3840.00	V	100	284	6.47	1 / 54	14.51	**20.98**	0.125	30.00	-9.02
	π/2 BPSK	3939.99	V	101	276	6.48	1 / 108	13.77	20.24	0.106	30.00	-9.76
	QPSK	3740.01	V	106	286	6.78	1 / 162	12.96	19.75	0.094	30.00	-10.25
	QPSK	3840.00	V	100	284	6.47	1 / 54	14.24	20.71	0.118	30.00	-9.29
	QPSK	3939.99	V	101	276	6.48	1 / 108	13.49	19.97	0.099	30.00	-10.03
	16-QAM	3939.99	V	101	276	6.48	1 / 108	11.82	18.29	0.068	30.00	-11.71
70 MHz	π/2 BPSK	3735.00	V	106	286	6.76	1 / 141	12.84	19.60	0.091	30.00	-10.40
	π/2 BPSK	3840.00	V	100	284	6.47	1 / 141	13.95	**20.43**	0.110	30.00	-9.57
	π/2 BPSK	3945.00	V	101	276	6.47	1 / 141	13.65	20.12	0.103	30.00	-9.88
	QPSK	3735.00	V	106	286	6.76	1 / 141	12.95	19.70	0.093	30.00	-10.30
	QPSK	3840.00	V	100	284	6.47	1 / 141	13.85	20.32	0.108	30.00	-9.68
	QPSK	3945.00	V	101	276	6.47	1 / 141	13.47	19.94	0.099	30.00	-10.06
	16-QAM	3840.00	V	100	284	6.47	1 / 141	12.54	19.01	0.080	30.00	-10.99
60 MHz	π/2 BPSK	3730.02	V	106	286	6.73	1 / 81	13.29	20.02	0.100	30.00	-9.98
	π/2 BPSK	3840.00	V	100	284	6.47	1 / 121	14.53	**21.01**	0.126	30.00	-8.99
	π/2 BPSK	3949.98	V	101	276	6.46	1 / 81	14.29	20.74	0.119	30.00	-9.26
	QPSK	3730.02	V	106	286	6.73	1 / 81	12.48	19.21	0.083	30.00	-10.79
	QPSK	3840.00	V	100	284	6.47	1 / 121	14.34	20.82	0.121	30.00	-9.18
	QPSK	3949.98	V	101	276	6.46	1 / 81	13.29	19.75	0.094	30.00	-10.25
	16-QAM	3840.00	V	100	284	6.47	1 / 121	12.68	19.16	0.082	30.00	-10.84
50 MHz	π/2 BPSK	3725.01	V	106	286	6.71	1 / 66	13.65	20.35	0.109	30.00	-9.65
	π/2 BPSK	3840.00	V	100	284	6.47	1 / 66	14.35	**20.82**	0.121	30.00	-9.18
	π/2 BPSK	3954.99	V	101	276	6.43	1 / 66	13.94	20.37	0.109	30.00	-9.63
	QPSK	3725.01	V	106	286	6.71	1 / 66	12.85	19.56	0.090	30.00	-10.44
	QPSK	3840.00	V	100	284	6.47	1 / 66	14.21	20.68	0.117	30.00	-9.32
	QPSK	3954.99	V	101	276	6.43	1 / 99	13.83	20.27	0.106	30.00	-9.73
	16-QAM	3840.00	V	100	284	6.47	1 / 66	13.17	19.64	0.092	30.00	-10.36
40 MHz	π/2 BPSK	3720.00	V	106	286	6.68	1 / 26	13.26	19.94	0.099	30.00	-10.06
	π/2 BPSK	3840.00	V	100	284	6.47	1 / 26	14.75	**21.22**	0.133	30.00	-8.78
	π/2 BPSK	3960.00	V	101	276	6.41	1 / 26	14.26	20.67	0.117	30.00	-9.33
	QPSK	3720.00	V	106	286	6.68	1 / 26	12.42	19.10	0.081	30.00	-10.90
	QPSK	3840.00	V	100	284	6.47	1 / 79	14.18	20.66	0.116	30.00	-9.34
	QPSK	3960.00	V	101	276	6.41	1 / 26	13.44	19.86	0.097	30.00	-10.14
	16-QAM	3840.00	V	100	284	6.47	1 / 79	12.99	19.46	0.088	30.00	-10.54
30 MHz	π/2 BPSK	3715.02	V	106	286	6.66	1 / 19	13.59	20.25	0.106	30.00	-9.75
	π/2 BPSK	3840.00	V	100	284	6.47	1 / 58	14.53	21.00	0.126	30.00	-9.00
	π/2 BPSK	3964.98	V	101	276	6.39	1 / 39	14.49	20.88	0.122	30.00	-9.12
	QPSK	3715.02	V	106	286	6.66	1 / 19	12.93	19.59	0.091	30.00	-10.41
	QPSK	3840.00	V	100	284	6.47	1 / 58	14.53	**21.01**	0.126	30.00	-8.99
	QPSK	3964.98	V	101	276	6.39	1 / 39	13.36	19.75	0.094	30.00	-10.25
	16-QAM	3715.02	V	106	286	6.66	1 / 19	11.89	18.55	0.072	30.00	-11.45
20 MHz	π/2 BPSK	3710.01	V	106	286	6.63	1 / 25	13.17	19.80	0.095	30.00	-10.20
	π/2 BPSK	3840.00	V	100	284	6.47	1 / 25	14.44	**20.91**	0.123	30.00	-9.09
	π/2 BPSK	3969.99	V	101	276	6.37	1 / 25	14.23	20.60	0.115	30.00	-9.40
	QPSK	3710.01	V	106	286	6.63	1 / 25	13.26	19.89	0.098	30.00	-10.11
	QPSK	3840.00	V	100	284	6.47	1 / 25	14.28	20.75	0.119	30.00	-9.25
	QPSK	3969.99	V	101	276	6.37	1 / 25	14.06	20.44	0.111	30.00	-9.56
	16-QAM	3969.99	V	101	276	6.37	1 / 25	13.06	19.43	0.088	30.00	-10.57
15 MHz	π/2 BPSK	3707.51	V	106	286	6.62	1 / 19	13.14	19.76	0.095	30.00	-10.24
	π/2 BPSK	3840.00	V	100	284	6.47	1 / 28	14.15	**20.62**	0.115	30.00	-9.38
	π/2 BPSK	3972.50	V	101	276	6.36	1 / 19	13.94	20.30	0.107	30.00	-9.70
	QPSK	3707.51	V	106	286	6.62	1 / 19	12.63	19.25	0.084	30.00	-10.75
	QPSK	3840.00	V	100	284	6.47	1 / 28	13.93	20.41	0.110	30.00	-9.59
	QPSK	3972.50	V	101	276	6.36	1 / 19	13.30	19.66	0.092	30.00	-10.34
	16-QAM	3840.00	V	100	284	6.47	1 / 28	12.57	19.04	0.080	30.00	-10.96
10 MHz	π/2 BPSK	3705.00	V	106	286	6.60	1 / 17	13.67	20.27	0.106	30.00	-9.73
	π/2 BPSK	3840.00	V	100	284	6.47	24 / 0	13.86	20.34	0.108	30.00	-9.66
	π/2 BPSK	3975.00	V	101	276	6.35	1 / 17	14.64	**20.99**	0.126	30.00	-9.01
	QPSK	3705.00	V	106	286	6.60	1 / 17	13.52	20.12	0.103	30.00	-9.88
	QPSK	3840.00	V	100	284	6.47	24 / 0	12.83	19.30	0.085	30.00	-10.70
	QPSK	3975.00	V	101	276	6.35	1 / 17	14.16	20.51	0.112	30.00	-9.49
	16-QAM	3705.00	V	106	286	6.60	1 / 17	12.89	19.49	0.089	30.00	-10.51
100 MHz	QPSK (CP-OFDM)	3840.0	V	100	284	6.47	1/204	11.63	18.10	0.065	30.00	-11.90
	QPSK (Opposite Pol.)	3840.0	H	109	307	6.02	1/136	12.63	18.65	0.073	30.00	-11.35
	QPSK (WCP)	3840.0	V	100	284	6.47	1/68	12.94	19.41	0.087	30.00	-10.59

Table 7-11. EIRP Data (NR Band n77 – C-Band-SRS-1-Ant F)

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	π/2 BPSK	3500.01	V	101	352	7.16	1 / 204	3.89	11.05	0.013	33.01	-21.96
	QPSK	3500.01	V	101	352	7.16	1 / 204	4.01	**11.17**	0.013	33.01	-21.84
	16-QAM	3500.01	V	101	352	7.16	1 / 204	3.18	10.34	0.011	33.01	-22.67
100 MHz	QPSK (CP-OFDM)	3500.0	V	101	352	7.16	1/204	1.73	8.89	0.008	33.01	-24.12
	QPSK (Opposite Pol.)	3500.0	H	204	14	7.74	1/204	2.22	9.96	0.010	33.01	-23.05
	QPSK (WCP)	3500.0	V	101	352	7.16	1/204	0.11	7.27	0.005	33.01	-25.74

Table 7-12. EIRP Data (NR Band n77 (DoD) – SRS-2-Ant H)

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	π/2 BPSK	3750.00	V	100	358	6.83	1 / 68	8.40	**15.23**	0.033	33.01	-17.78
	π/2 BPSK	3840.00	V	106	349	6.47	1 / 136	6.01	12.48	0.018	33.01	-20.53
	π/2 BPSK	3930.00	V	111	365	6.49	1 / 204	5.15	11.64	0.015	33.01	-21.37
	QPSK	3750.00	V	100	358	6.83	1 / 68	7.79	14.62	0.029	33.01	-18.39
	QPSK	3840.00	V	106	349	6.47	1 / 136	6.05	12.52	0.018	33.01	-20.49
	QPSK	3930.00	V	111	365	6.49	1 / 136	5.10	11.59	0.014	33.01	-21.42
	16-QAM	3750.00	V	100	358	6.83	1 / 68	7.23	14.06	0.025	33.01	-18.95
100 MHz	QPSK (CP-OFDM)	3750.0	V	100	358	6.83	1/68	6.47	13.30	0.021	33.01	-19.71
	QPSK (Opposite Pol.)	3750.0	H	197	15	5.98	1/68	6.78	12.76	0.019	33.01	-20.25
	QPSK (WCP)	3750.0	V	100	358	6.83	1/68	5.44	12.27	0.017	33.01	-20.74

Table 7-13. EIRP Data (NR Band n77 – C-Band- SRS-2-Ant H)

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	π/2 BPSK	3500.01	V	109	90	7.16	1 / 68	8.16	15.32	0.034	33.01	-17.69
	QPSK	3500.01	V	109	90	7.16	1 / 68	8.79	**15.95**	0.039	33.01	-17.06
	16-QAM	3500.01	V	109	90	7.16	1 / 68	7.32	14.48	0.028	33.01	-18.53
100 MHz	QPSK (CP-OFDM)	3500.0	V	109	90	7.16	1 / 68	5.93	13.09	0.020	33.01	-19.92
	QPSK (Opposite Pol.)	3500.0	H	123	1	7.16	1 / 68	5.87	13.03	0.020	33.01	-19.98
	QPSK (WCP)	3500.0	H	264	219	7.16	1 / 68	6.24	13.40	0.022	33.01	-19.61

Table 7-14. EIRP Data (NR Band n77 (DoD) – SRS-3-Ant C)

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	π/2 BPSK	3750.00	V	123	84	6.83	1 / 136	6.54	13.37	0.022	33.01	-19.64
	π/2 BPSK	3840.00	V	122	112	6.47	1 / 68	5.54	12.01	0.016	33.01	-21.00
	π/2 BPSK	3930.00	V	101	100	6.49	1 / 68	3.85	10.34	0.011	33.01	-22.67
	QPSK	3750.00	V	123	84	6.83	1 / 136	6.76	**13.59**	0.023	33.01	-19.42
	QPSK	3840.00	V	122	112	6.47	1 / 68	5.35	11.82	0.015	33.01	-21.19
	QPSK	3930.00	V	101	100	6.49	1 / 68	3.75	10.24	0.011	33.01	-22.77
	16-QAM	3750.00	V	123	84	6.83	1 / 136	3.93	10.76	0.012	33.01	-22.25
100 MHz	QPSK (CP-OFDM)	3750.0	V	123	84	6.83	1 / 136	4.83	11.66	0.015	33.01	-21.35
	QPSK (Opposite Pol.)	3750.0	H	211	36	6.83	1 / 136	4.55	11.38	0.014	33.01	-21.63
	QPSK (WCP)	3750.0	V	236	99	6.83	1 / 136	6.03	12.86	0.019	33.01	-20.15

Table 7-15. EIRP Data (NR Band n77 – C-Band- SRS-3-Ant C)

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	π/2 BPSK	3500.01	119	119	34	7.74	1 / 68	5.62	**13.36**	0.022	33.01	-19.65
	QPSK	3500.01	119	119	34	7.74	1 / 68	5.59	13.33	0.022	33.01	-19.68
	16-QAM	3500.01	119	119	34	7.74	1 / 68	4.30	12.04	0.016	33.01	-20.97
100 MHz	QPSK (CP-OFDM)	3500.0	H	119	34	7.74	1/68	3.77	11.51	0.014	33.01	-21.50
	QPSK (Opposite Pol.)	3500.0	V	101	355	7.16	1/68	5.24	12.40	0.017	33.01	-20.61
	QPSK (WCP)	3500.0	H	338	370	7.74	1/68	-0.29	7.45	0.006	33.01	-25.56

Table 7-16. EIRP Data (NR Band n77 (DoD) – SRS-4-Ant D)

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	π/2 BPSK	3750.00	H	119	345	5.98	1 / 68	7.95	**13.93**	0.025	33.01	-19.08
	π/2 BPSK	3840.00	H	102	358	6.02	1 / 68	5.61	11.63	0.015	33.01	-21.38
	π/2 BPSK	3930.00	H	100	356	5.99	1 / 68	5.81	11.80	0.015	33.01	-21.21
	QPSK	3750.00	H	119	345	5.98	1 / 68	7.27	13.25	0.021	33.01	-19.76
	QPSK	3840.00	H	102	358	6.02	1 / 68	4.87	10.89	0.012	33.01	-22.12
	QPSK	3930.00	H	100	356	5.99	1 / 68	5.05	11.04	0.013	33.01	-21.97
	16-QAM	3750.00	H	119	345	5.98	1 / 68	6.46	12.44	0.018	33.01	-20.57
100 MHz	QPSK (CP-OFDM)	3750.0	H	119	345	5.98	1/68	6.23	12.21	0.017	33.01	-20.80
	QPSK (Opposite Pol.)	3750.0	V	216	222	6.83	1/68	6.35	13.18	0.021	33.01	-19.83
	QPSK (WCP)	3750.0	H	378	4	5.98	1/68	-5.32	0.66	0.001	33.01	-32.35

Table 7-17. EIRP Data (NR Band n77 – C-Band- SRS-4-Ant D)

7.8 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

Test Settings

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

Test Setup

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

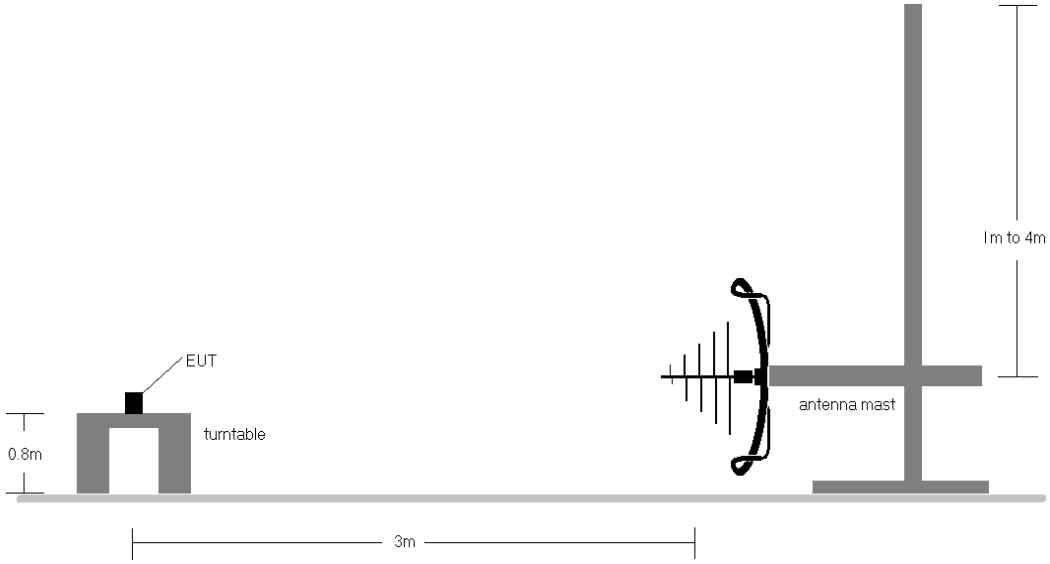


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

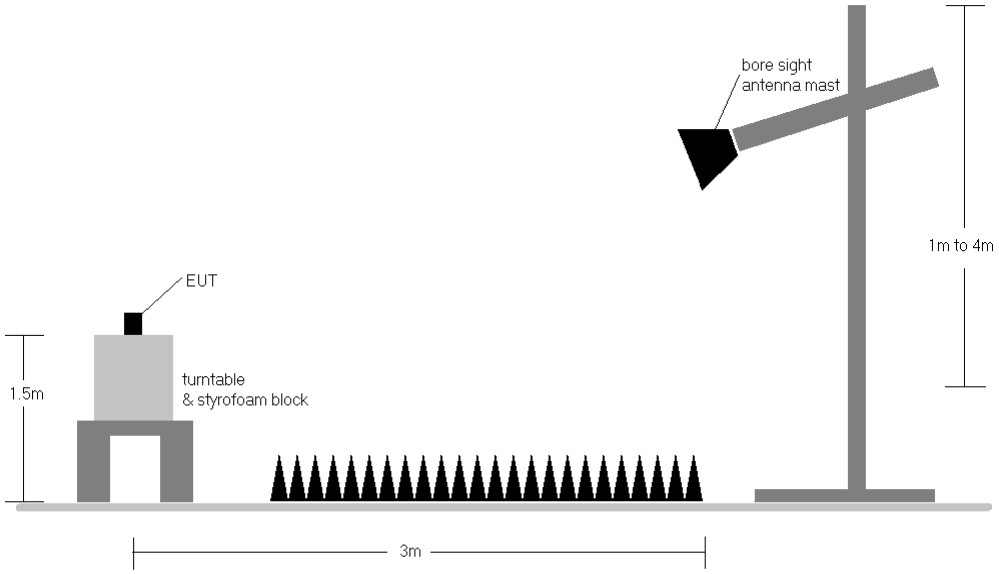


Figure 7-8. Test Instrument & Measurement Setup >1 GHz

Test Notes

1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
   b) E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
   d) EIRP (dBm) = E(dBµV/m) + 20logD – 104.8; where D is the measurement distance in meters.

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

3) This unit was tested with its standard battery.

4) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.

5) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.

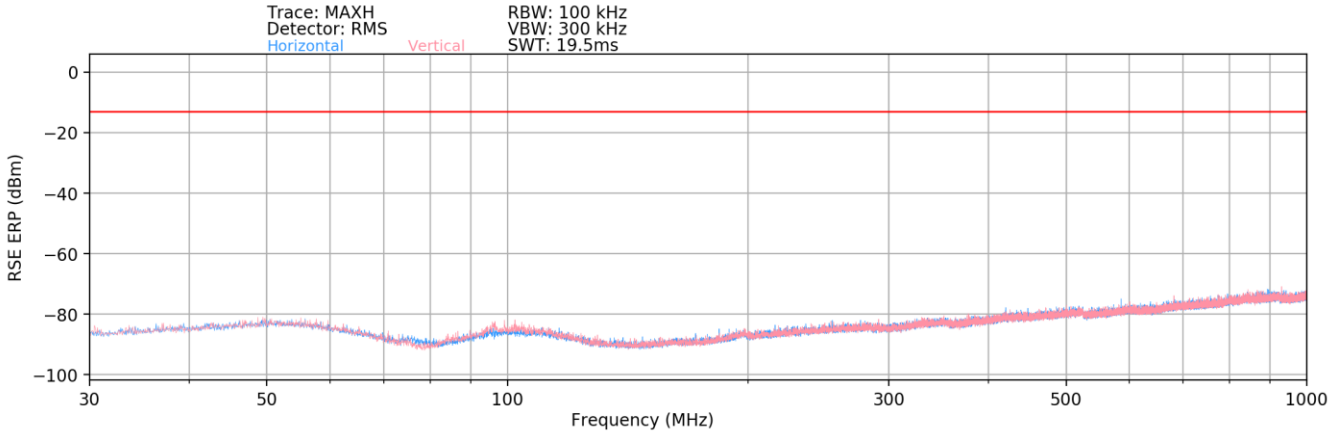
6) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.

7) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

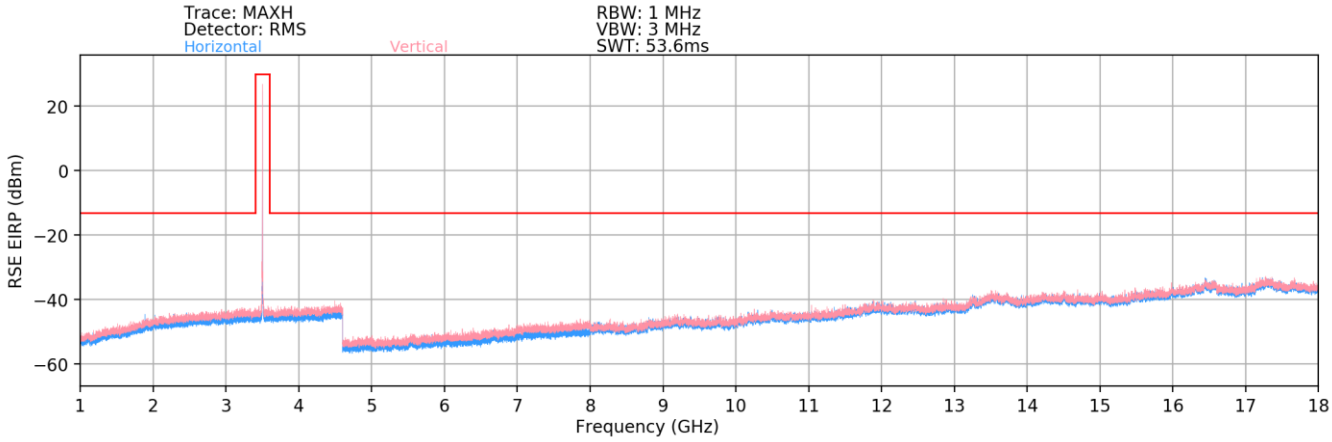
8) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

9) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emission caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

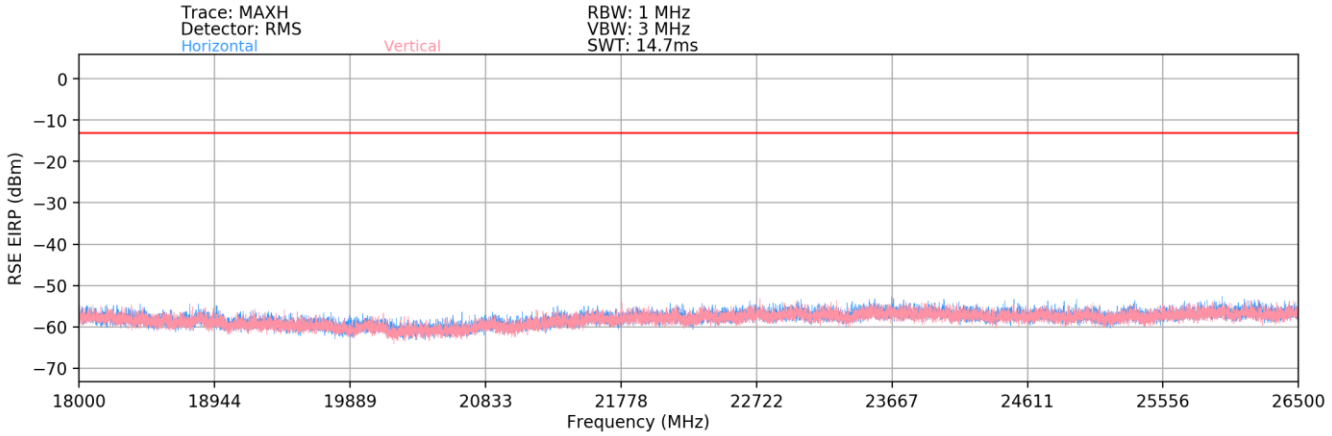
NR Band n77 (DoD Band) – SRS-1- Ant F



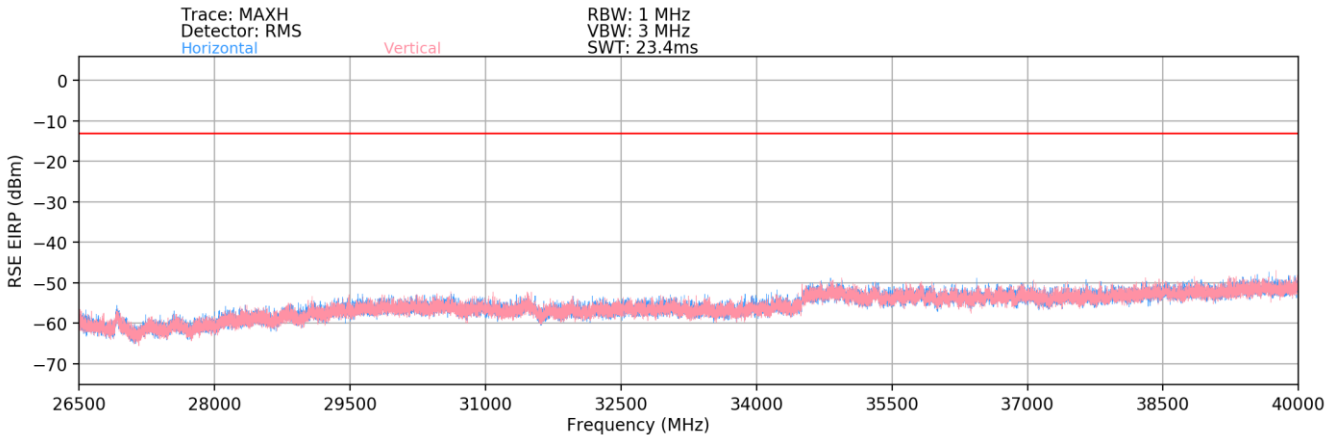
Plot 7-237. Radiated Spurious Plot (NR Band n77 (DoD) – Ant F – 30MHz-1GHz)



Plot 7-238. Radiated Spurious Plot (NR Band n77 (DoD) – Ant F – 1-18GHz)



Plot 7-239. Radiated Spurious Plot (NR Band n77 (DoD) – Ant F – 18-26.5GHz)



Plot 7-240. Radiated Spurious Plot (NR Band n77 (DoD) – Ant F – 26.5-40GHz)

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
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]
7000.02	V	-	-	-74.44	15.72	48.28	-46.98	-13.00	-33.98
10500.03	V	-	-	-75.84	21.69	52.85	-42.41	-13.00	-29.41
14000.04	V	-	-	-76.00	27.21	58.21	-37.05	-13.00	-24.05

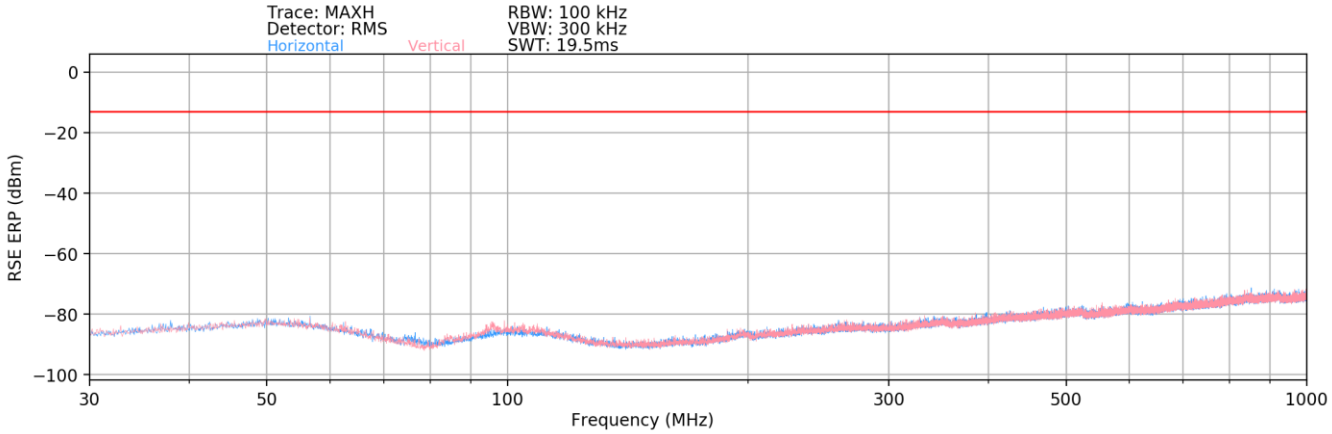
Table 7-18. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant F)

Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1/136
Mode:	Stand Alone
Anchor Band:	-

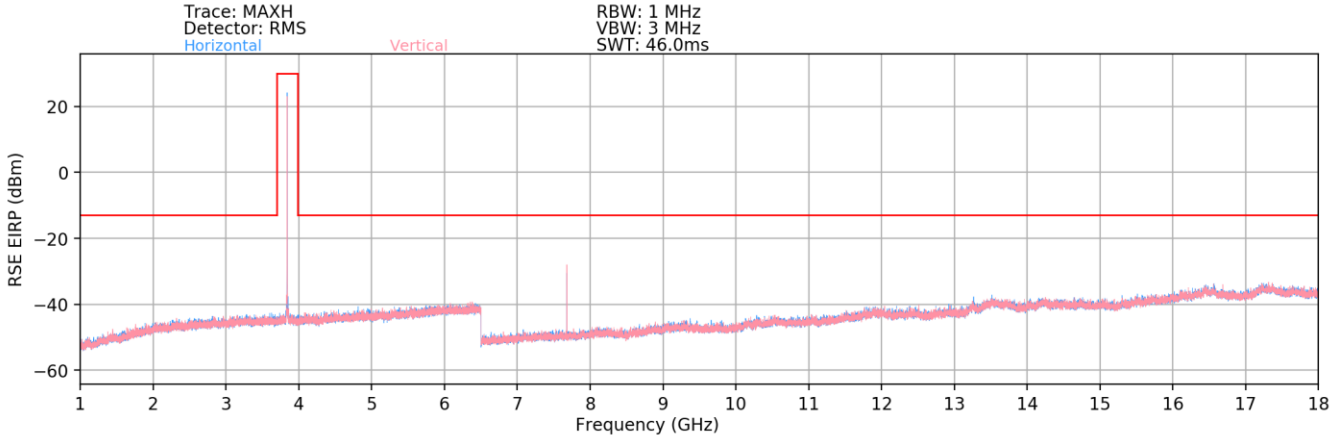
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	V	-	-	-74.43	15.72	48.29	-46.97	-13.00	-33.97
10500.03	V	-	-	-75.69	21.69	53.00	-42.26	-13.00	-29.26
14000.04	V	-	-	-75.82	27.21	58.39	-36.87	-13.00	-23.87

Table 7-19. Radiated Spurious Data with WCP (NR Band n77 (DoD) – Ant F)

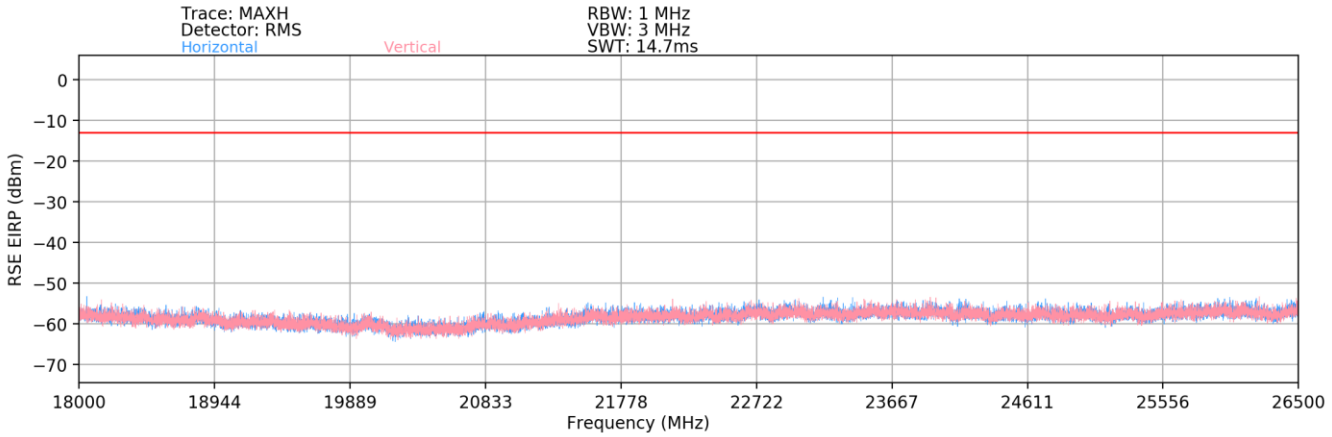
NR Band n77 – C-Band-SRS-1-Ant F



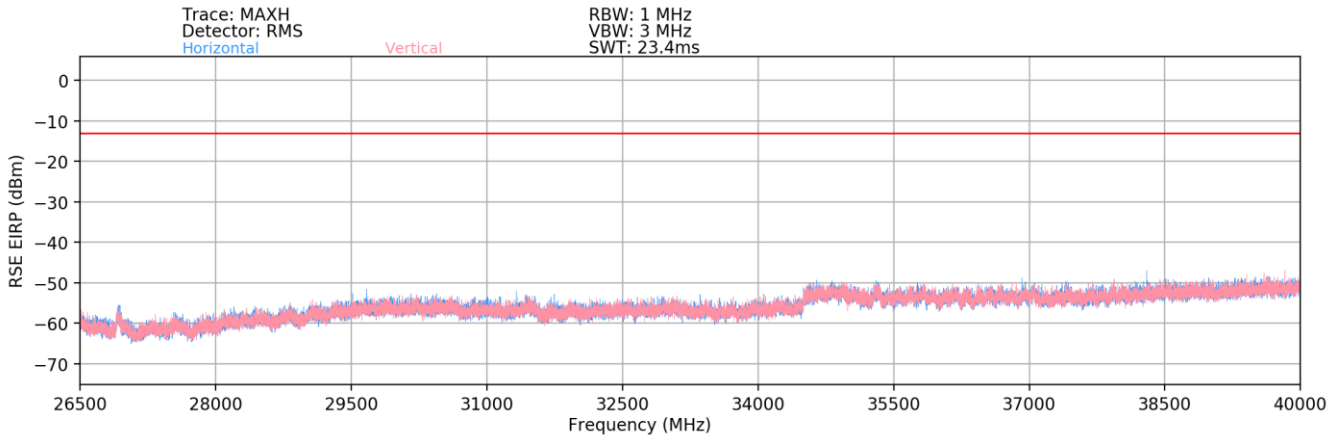
Plot 7-241. Radiated Spurious Plot (NR Band n77 – Ant F -30MHz-1GHz)



Plot 7-242. Radiated Spurious Plot (NR Band n77 – Ant F -1-18GHz)



Plot 7-243. Radiated Spurious Plot (NR Band n77 – Ant F -18-26.5GHz)



Plot 7-244. Radiated Spurious Plot (NR Band n77 – Ant F -26.5-40GHz)

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
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]
7500.00	V	133	329	-54.05	16.51	69.46	-25.80	-13.00	-12.80
11250.00	V	-	-	-79.17	21.70	49.53	-45.73	-13.00	-32.73
15000.00	V	-	-	-78.11	27.76	56.65	-38.61	-13.00	-25.61
18750.00	V	-	-	-58.02	1.27	50.25	-54.55	-13.00	-41.55

Table 7-20. Radiated Spurious Data (NR Band n77 – Low Channel – Ant F)

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
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]
7680.00	V	115	329	-55.67	16.64	67.97	-27.29	-13.00	-14.29
11520.00	V	-	-	-76.79	23.03	53.24	-42.01	-13.00	-29.01
15360.00	V	-	-	-78.71	28.13	56.42	-38.83	-13.00	-25.83
19200.00	V	-	-	-57.22	1.73	51.51	-53.29	-13.00	-40.29

Table 7-21. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant F)

Bandwidth (MHz):	100
Frequency (MHz):	3930.00
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]
7860.00	V	131	5	-62.46	16.77	61.31	-33.95	-13.00	-20.95
11790.00	V	-	-	-77.18	22.57	52.39	-42.86	-13.00	-29.86
15720.00	V	-	-	-79.09	29.09	57.00	-38.26	-13.00	-25.26
19650.00	V	-	-	-58.29	2.16	50.87	-53.93	-13.00	-40.93

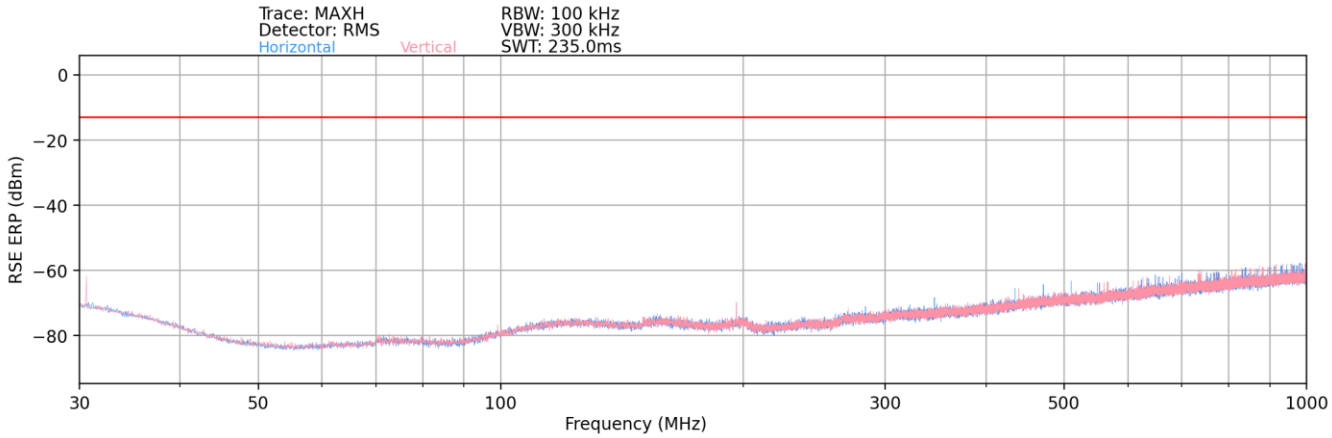
Table 7-22. Radiated Spurious Data (NR Band n77 – High Channel – Ant F)

Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1/136
Mode:	Stand Alone
Anchor Band:	-

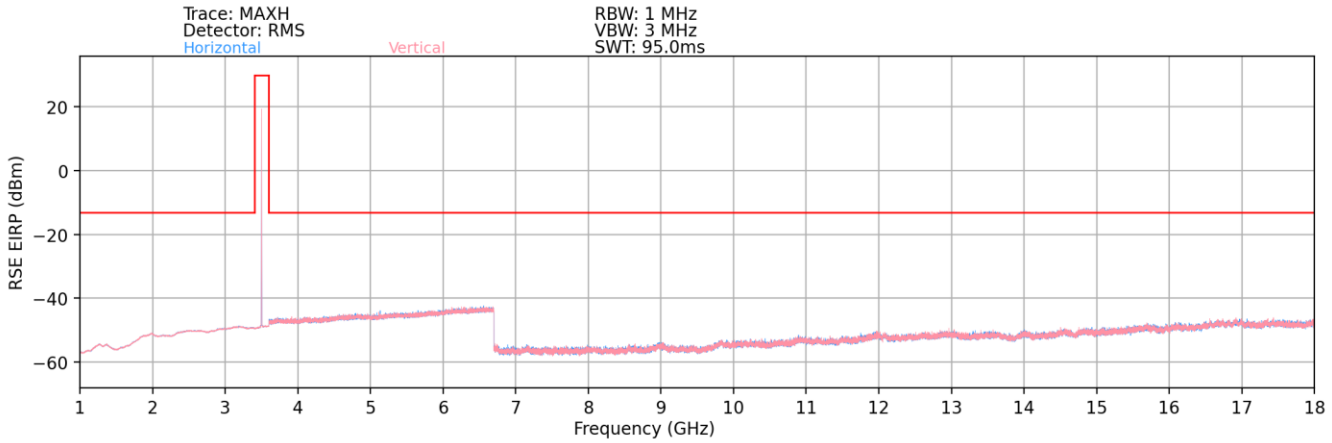
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7500.00	V	321	152	-57.72	16.51	65.79	-29.47	-13.00	-16.47
11250.00	V	-	-	-77.18	21.70	51.52	-43.74	-13.00	-30.74
15000.00	V	-	-	-79.63	27.76	55.13	-40.13	-13.00	-27.13
18750.00	V	-	-	-57.95	1.27	50.32	-54.48	-13.00	-41.48

Table 7-23. Radiated Spurious Data with WCP (NR Band n77 – Ant F)

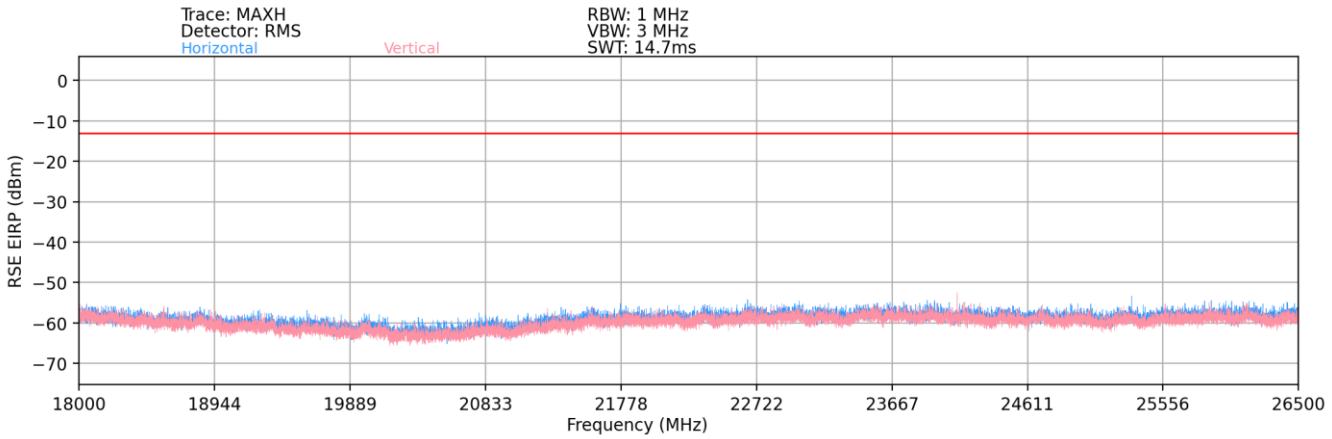
NR Band n77 (DoD Band) – SRS-2 - Ant H



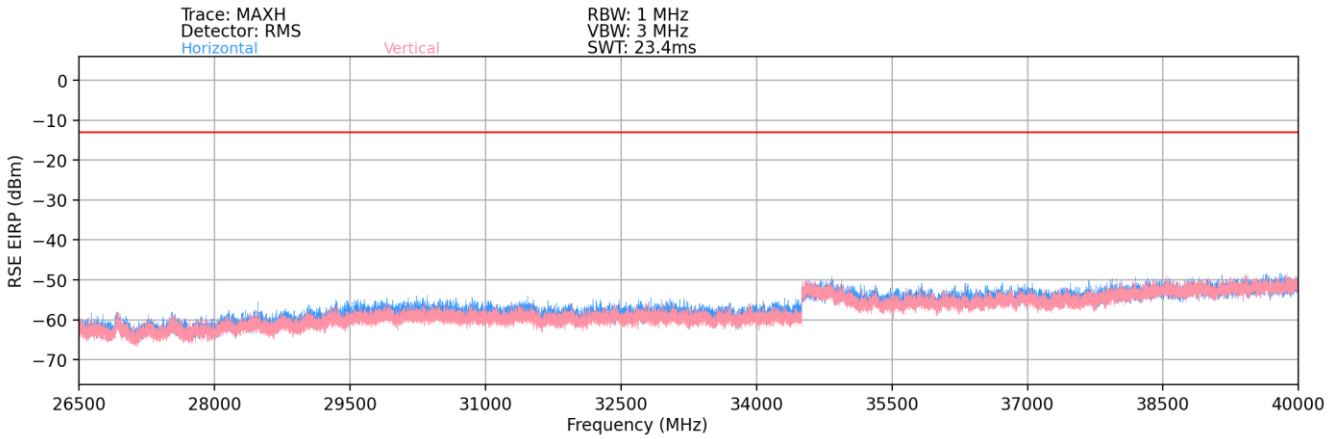
Plot 7-245. Radiated Spurious Plot (NR Band n77 (DoD) – Ant H – 30MHz-1GHz)



Plot 7-246. Radiated Spurious Plot (NR Band n77 (DoD) – Ant H – 1-18GHz)



Plot 7-247. Radiated Spurious Plot (NR Band n77 (DoD) – Ant H – 18-26.5GHz)



Plot 7-248. Radiated Spurious Plot (NR Band n77 (DoD) – Ant H – 26.5-18GHz)

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	V	319	0	-76.94	7.82	37.88	-57.37	-13.00	-44.37
10500.03	V	-	-	-79.41	11.39	38.98	-56.27	-13.00	-43.27
14000.04	V	243	280	-77.94	14.35	43.41	-51.85	-13.00	-38.85
17500.05	V	-	-	-79.06	17.73	45.67	-49.59	-13.00	-36.59
21000.06	V	-	-	-57.17	-6.59	43.24	-61.56	-13.00	-48.56
24500.07	V	-	-	-57.80	-6.18	43.02	-61.78	-13.00	-48.78
28000.08	V	-	-	-57.12	-5.68	44.20	-60.60	-13.00	-47.60

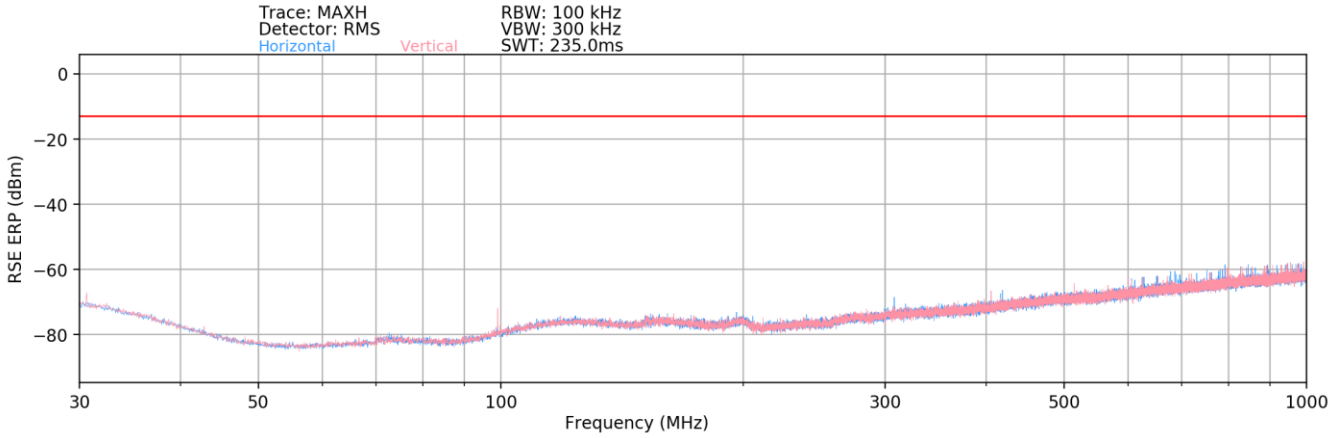
Table 7-24. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant H)

Case:	WPT
Bandwidth (MHz):	100
Frequency (MHz):	3500.0
RB / Offset:	1 / 136
Mode:	SA
Anchor Band:	N/A

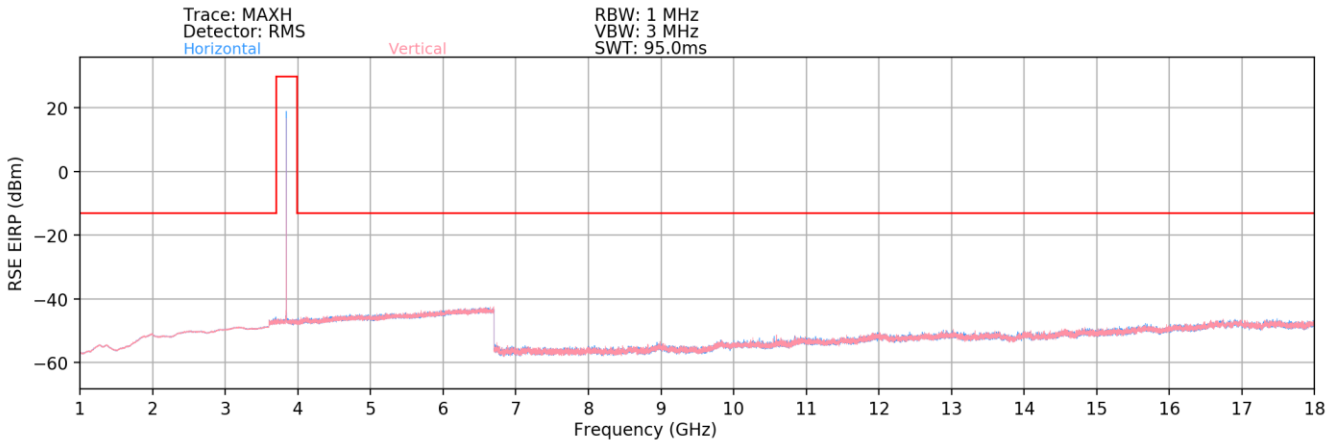
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	V	214	114	-77.14	7.82	37.68	-57.57	-13.00	-44.57
10500.03	V	-	-	-80.14	11.39	38.25	-57.00	-13.00	-44.00
14000.04	V	-	-	-78.36	14.35	42.99	-52.27	-13.00	-39.27
17500.05	V	-	-	-80.11	17.73	44.62	-50.64	-13.00	-37.64
21000.06	V	-	-	-57.41	-6.59	43.00	-61.80	-13.00	-48.80
24500.07	V	-	-	-57.88	-6.18	42.94	-61.86	-13.00	-48.86
28000.08	V	-	-	-56.98	-5.68	44.34	-60.46	-13.00	-47.46

Table 7-25. Radiated Spurious Data with WCP (NR Band n77 (DoD) – Ant H)

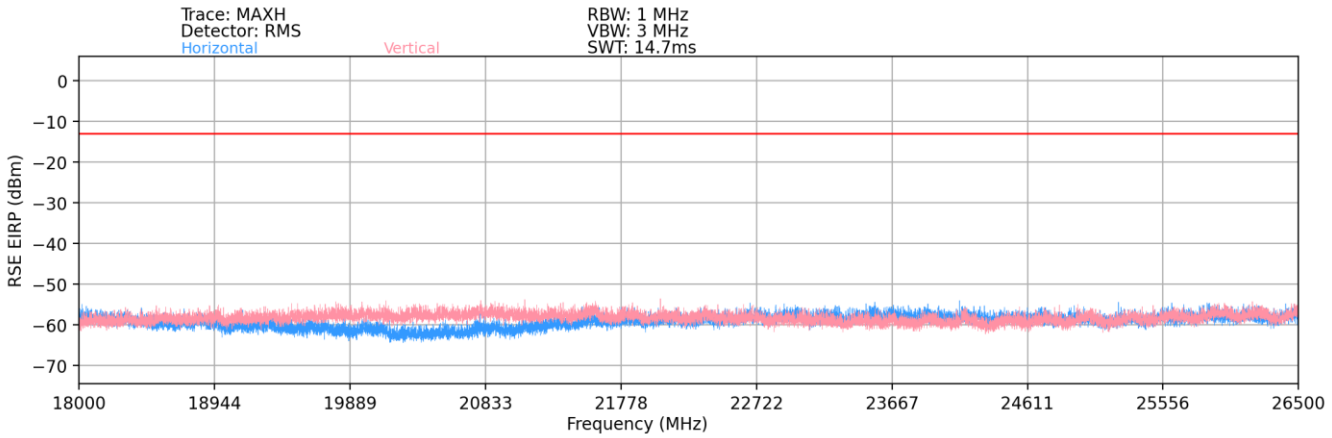
NR Band n77 – C-Band – SRS-2-Ant H



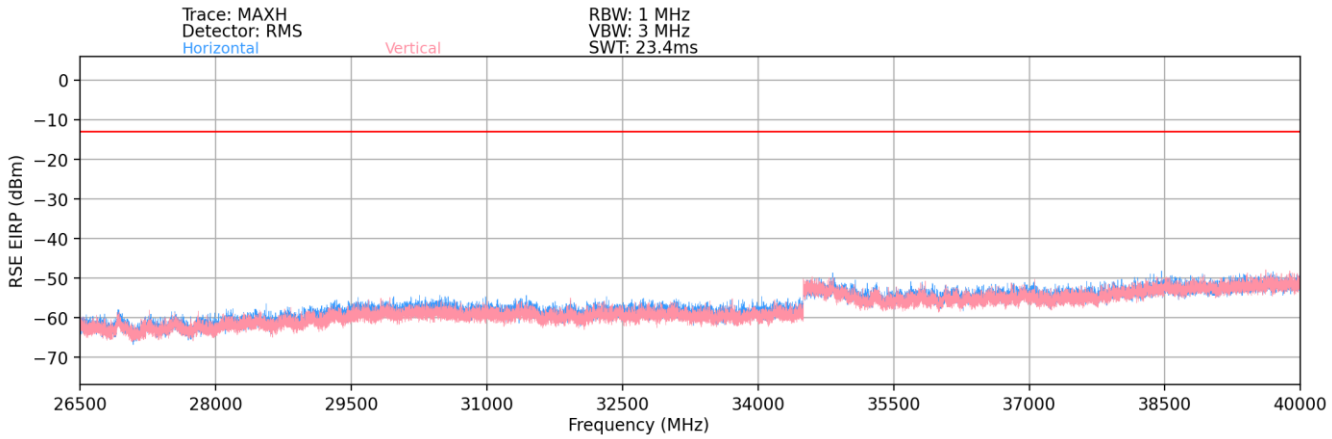
Plot 7-249. Radiated Spurious Plot (NR Band n77 – Ant H – 30MHz-1GHz)



Plot 7-250. Radiated Spurious Plot (NR Band n77 – Ant H – 1-18GHz)



Plot 7-251. Radiated Spurious Plot (NR Band n77 – Ant H – 18-26.5GHz)



Plot 7-252. Radiated Spurious Plot (NR Band n77 – Ant H – 26.5-40GHz)

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
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]
7500.00	V	241	31	-71.69	8.35	43.66	-51.60	-13.00	-38.60
11250.00	V	-	-	-79.38	12.39	40.01	-55.25	-13.00	-42.25
15000.00	V	-	-	-78.49	15.39	43.90	-51.36	-13.00	-38.36
18750.00	V	-	-	-58.44	-8.27	40.29	-64.51	-13.00	-51.51
22500.00	V	-	-	-57.86	-6.55	42.59	-62.21	-13.00	-49.21
26250.00	V	-	-	-57.65	-5.66	43.70	-61.10	-13.00	-48.10
30000.00	V	-	-	-56.82	-3.58	46.60	-58.20	-13.00	-45.20

Table 7-26. Radiated Spurious Data (NR Band n77 – Low Channel – Ant H)

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
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]
7680.00	V	262	25	-73.29	7.53	41.24	-54.02	-13.00	-41.02
11520.00	V	-	-	-79.21	12.86	40.65	-54.61	-13.00	-41.61
15360.00	V	-	-	-79.31	15.97	43.66	-51.60	-13.00	-38.60
19200.00	V	-	-	-58.19	-7.81	41.00	-63.80	-13.00	-50.80
23040.00	V	-	-	-58.07	-6.58	42.35	-62.45	-13.00	-49.45
26880.00	V	-	-	-57.53	-5.56	43.91	-60.89	-13.00	-47.89
30720.00	V	-	-	-57.26	-3.40	46.34	-58.46	-13.00	-45.46

Table 7-27. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant H)

Bandwidth (MHz):	100
Frequency (MHz):	3930.00
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]
7860.00	V	244	33	-74.29	8.10	40.81	-54.45	-13.00	-41.45
11790.00	V	-	-	-79.32	13.19	40.87	-54.39	-13.00	-41.39
15720.00	V	-	-	-80.14	17.00	43.86	-51.39	-13.00	-38.39
19650.00	V	-	-	-57.48	-7.38	42.14	-62.66	-13.00	-49.66
23580.00	V	-	-	-58.22	-6.59	42.19	-62.61	-13.00	-49.61
27510.00	V	-	-	-56.00	-5.17	45.83	-58.97	-13.00	-45.97
31440.00	V	-	-	-56.17	-3.22	47.61	-57.19	-13.00	-44.19

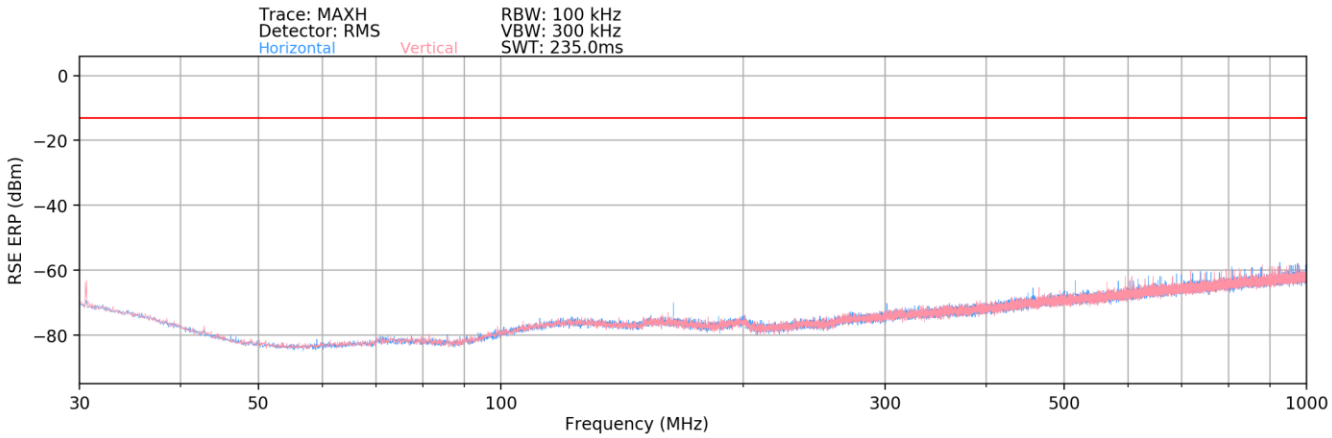
Table 7-28. Radiated Spurious Data (NR Band n77 – High Channel – Ant H)

Case:	WPT
Bandwidth (MHz):	100
Frequency (MHz):	3930.0
RB / Offset:	1 / 136
Mode:	WPT
Anchor Band:	N/A

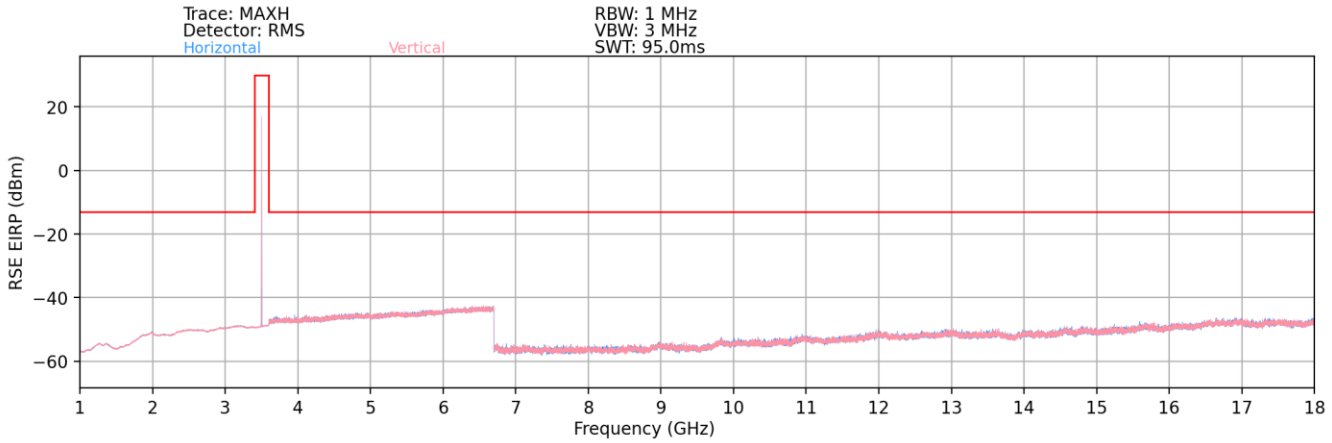
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.00	V	-	-	-74.59	8.10	40.51	-54.75	-13.00	-41.75
11790.00	V	-	-	-80.10	13.19	40.09	-55.17	-13.00	-42.17
15720.00	V	-	-	-81.01	17.00	42.99	-52.26	-13.00	-39.26
19650.00	V	-	-	-58.21	-7.38	41.41	-63.39	-13.00	-50.39
23580.00	V	-	-	-58.42	-6.59	41.99	-62.81	-13.00	-49.81
27510.00	V	-	-	-56.42	-5.17	45.42	-59.38	-13.00	-46.38
31440.00	V	-	-	-56.72	-3.22	47.07	-57.73	-13.00	-44.73

Table 7-29. Radiated Spurious Data with WCP (NR Band n77 – Ant H)

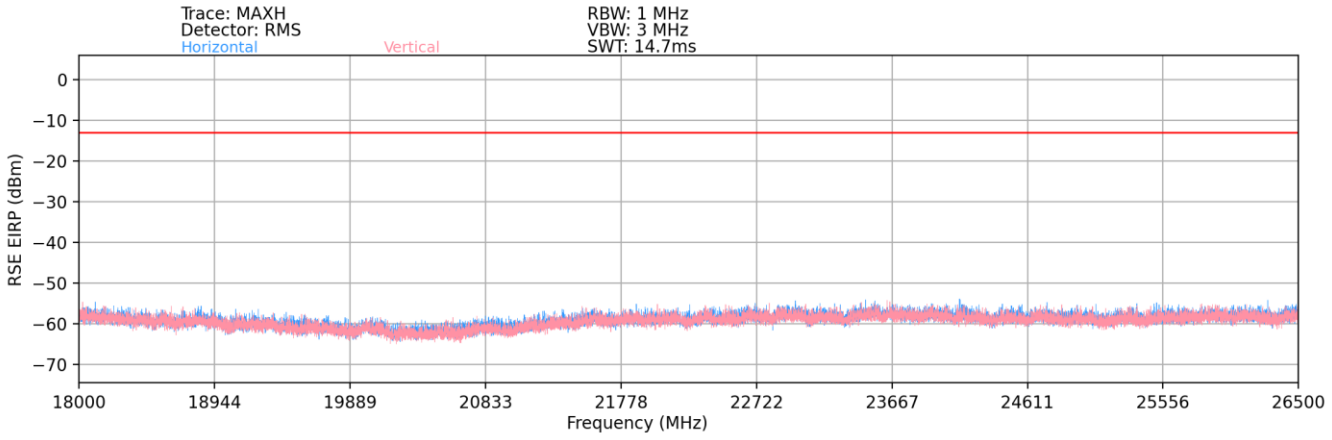
NR Band n77 (DoD Band) – SRS-3- Ant C



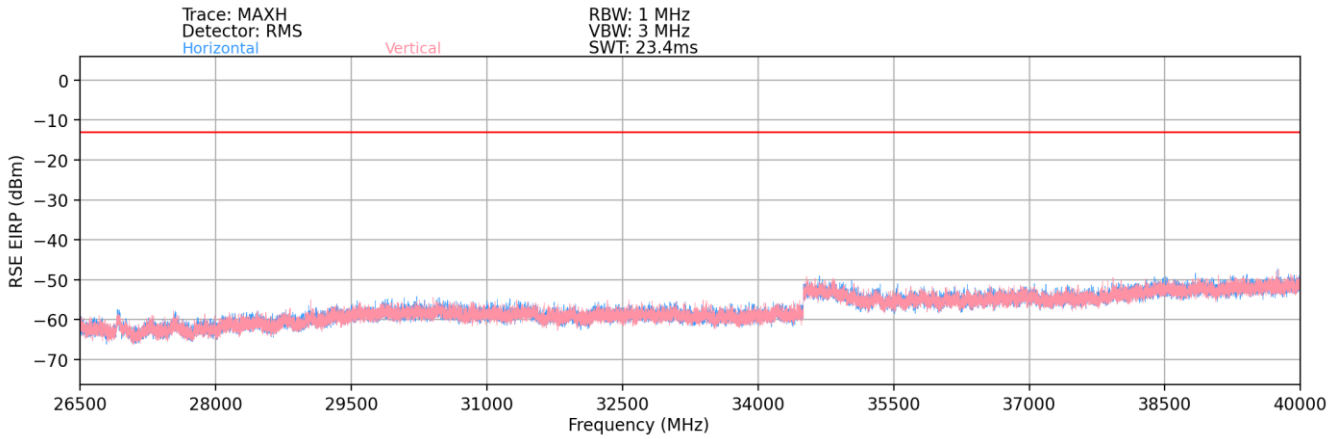
Plot 7-253. Radiated Spurious Plot (NR Band n77 (DoD) – Ant C – 30MHz-1GHz)



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



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



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

Bandwidth (MHz):	100
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	V	118	118	-74.62	7.82	40.20	-55.05	-13.00	-42.05
10500.03	V	-	-	-77.87	11.39	40.52	-54.73	-13.00	-41.73
14000.04	V	-	-	-77.52	14.35	43.83	-51.43	-13.00	-38.43
17500.05	V	-	-	-77.30	17.73	47.43	-47.83	-13.00	-34.83
21000.06	V	-	-	-61.79	-6.59	38.62	-66.18	-13.00	-53.18
24500.07	V	-	-	-60.36	-6.18	40.46	-64.34	-13.00	-51.34
28000.08	V	-	-	-60.37	-5.68	40.95	-63.85	-13.00	-50.85
31500.09	V	-	-	-60.93	-2.84	43.23	-61.57	-13.00	-48.57

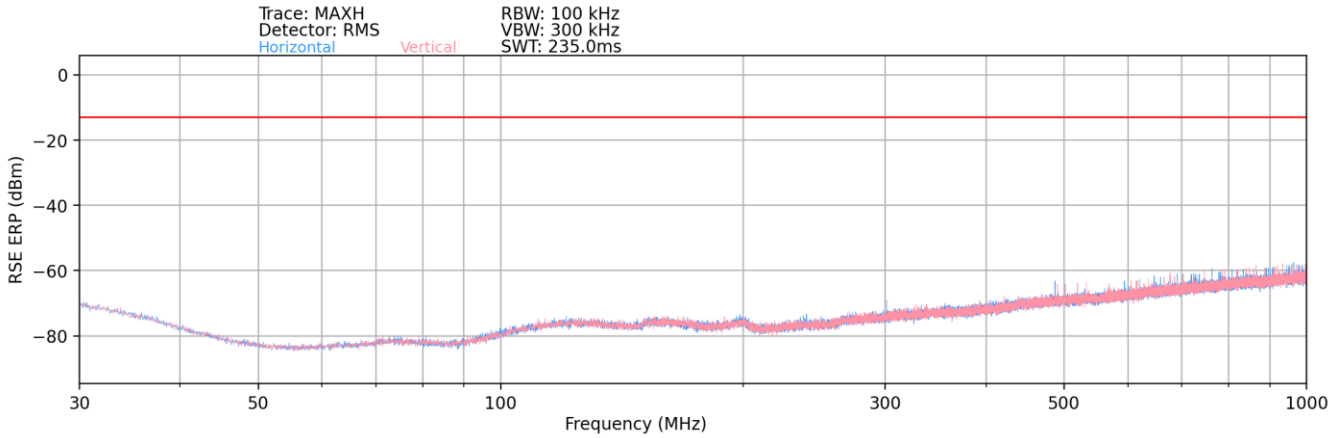
Table 7-30. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant C)

Case:	WCP
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

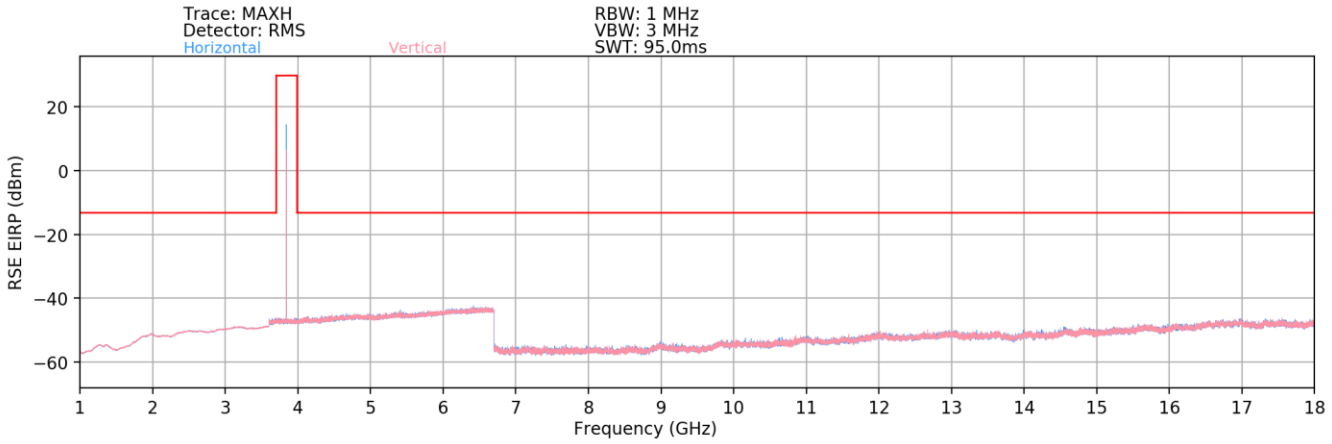
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	V	304	5	-74.12	7.82	40.70	-54.55	-13.00	-41.55
10500.03	V	-	-	-77.58	11.39	40.81	-54.44	-13.00	-41.44
14000.04	V	-	-	-77.18	14.35	44.17	-51.09	-13.00	-38.09
17500.05	V	-	-	-79.13	17.73	45.60	-49.66	-13.00	-36.66

Table 7-31. Radiated Spurious Data with WCP (NR Band n77 (DoD) – Ant C)

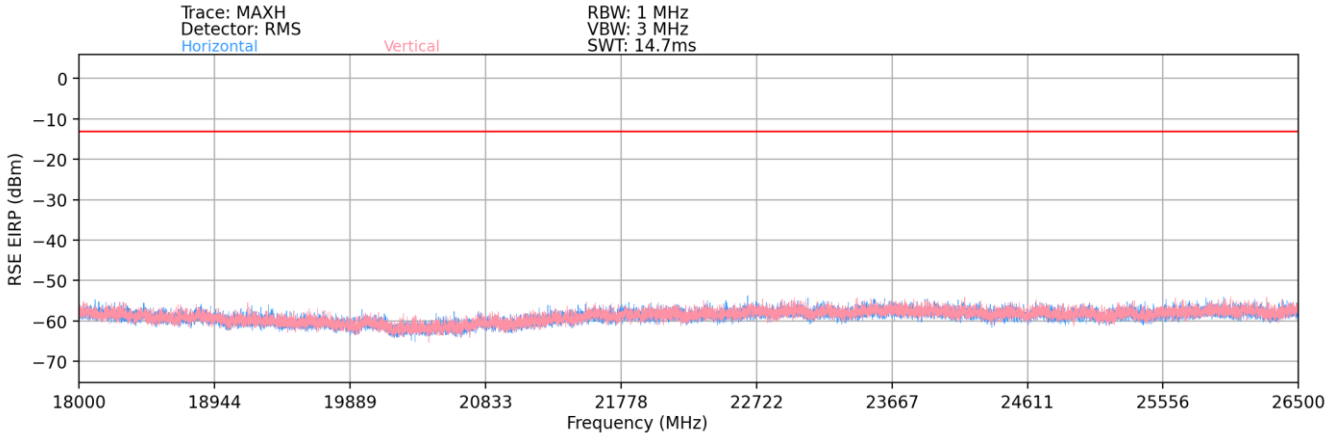
NR Band n77 – C-Band- SRS-3-Ant C



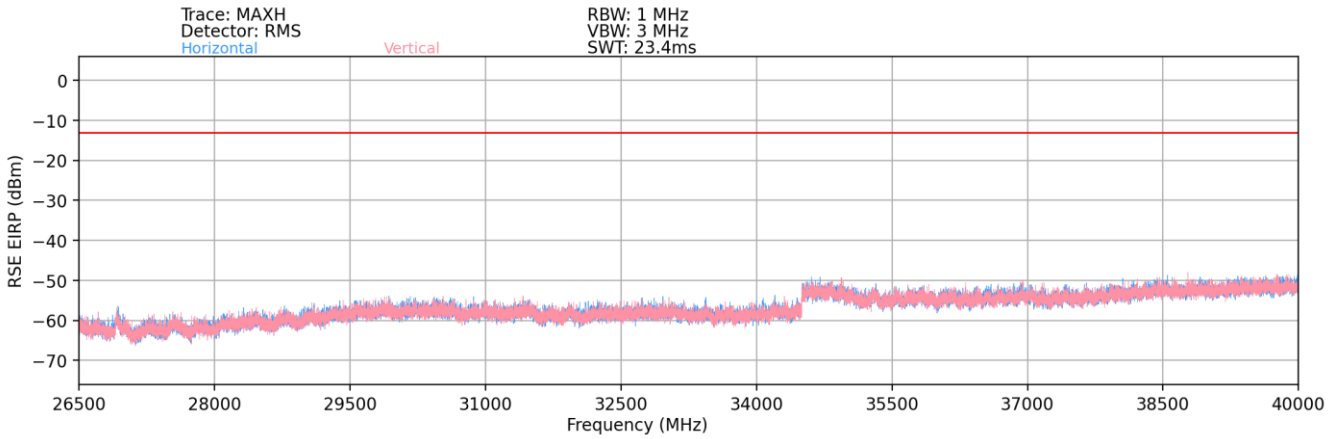
Plot 7-257. Radiated Spurious Plot (NR Band n77 – Ant C -30MHz-1GHz)



Plot 7-258. Radiated Spurious Plot (NR Band n77 – Ant C -1-18GHz)



Plot 7-259. Radiated Spurious Plot (NR Band n77 – Ant C -18-26.5GHz)



Plot 7-260. Radiated Spurious Plot (NR Band n77 – Ant C -26.5-40GHz)

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
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]
7500.00	V	212	37	-74.78	8.35	40.57	-54.69	-13.00	-41.69
11250.00	V	-	-	-78.44	12.39	40.95	-54.31	-13.00	-41.31
15000.00	V	222	6	-74.35	15.39	48.04	-47.22	-13.00	-34.22
18750.00	V	-	-	-60.47	-8.27	38.26	-66.54	-13.00	-53.54
22500.00	V	-	-	-60.35	-6.55	40.10	-64.70	-13.00	-51.70
26250.00	V	-	-	-60.18	-5.66	41.17	-63.63	-13.00	-50.63
30000.00	V	-	-	-59.11	-3.58	44.32	-60.48	-13.00	-47.48
33750.00	V	-	-	-58.55	-2.90	45.55	-59.25	-13.00	-46.25

Table 7-32. Radiated Spurious Data (NR Band n77 – Low Channel – Ant C)

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
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]
7680.00	V	323	63	-73.76	7.53	40.77	-54.49	-13.00	-41.49
11520.00	V	-	-	-79.69	12.86	40.17	-55.09	-13.00	-42.09
15360.00	V	223	322	-73.33	15.97	49.64	-45.62	-13.00	-32.62
19200.00	V	-	-	-59.61	-7.81	39.57	-65.23	-13.00	-52.23
23040.00	V	-	-	-60.79	-6.58	39.63	-65.17	-13.00	-52.17
26880.00	V	-	-	-59.76	-5.56	41.68	-63.12	-13.00	-50.12
30720.00	V	-	-	-61.53	-3.40	42.07	-62.73	-13.00	-49.73
34560.00	V	-	-	-58.53	-2.60	45.86	-58.94	-13.00	-45.94

Table 7-33. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant C)

Bandwidth (MHz):	100
Frequency (MHz):	3930.00
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]
7860.00	V	-	-	-77.24	8.10	37.86	-57.40	-13.00	-44.40
11790.00	V	272	353	-79.69	13.19	40.50	-54.76	-13.00	-41.76
15720.00	V	-	-	-79.60	17.00	44.40	-50.85	-13.00	-37.85
19650.00	V	-	-	-59.81	-7.38	39.81	-64.99	-13.00	-51.99
23580.00	V	-	-	-59.66	-6.59	40.75	-64.05	-13.00	-51.05
27510.00	V	-	-	-60.01	-5.17	41.82	-62.98	-13.00	-49.98
31440.00	V	-	-	-60.99	-3.22	42.79	-62.01	-13.00	-49.01
35370.00	V	-	-	-59.03	-2.31	45.66	-59.14	-13.00	-46.14

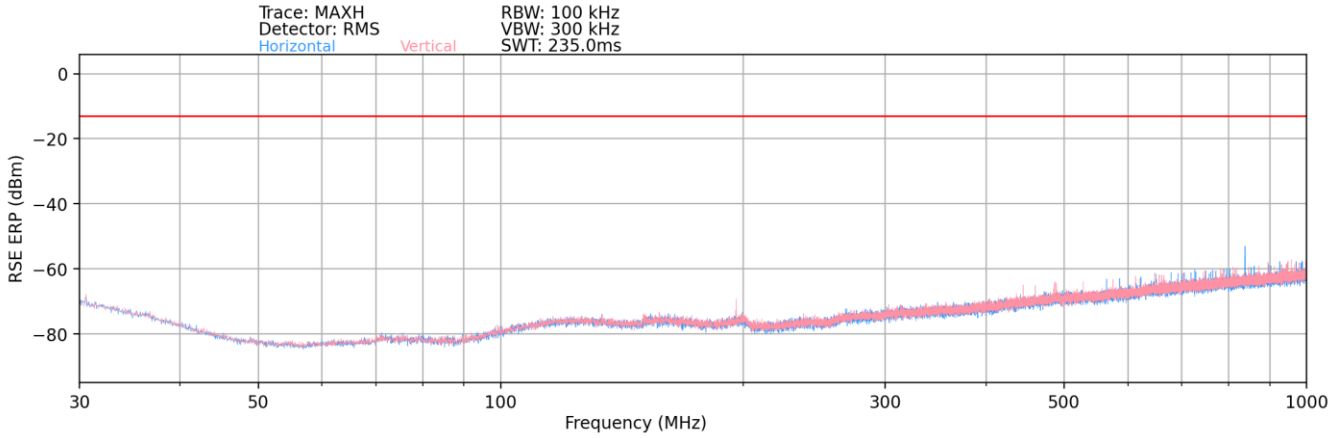
Table 7-34. Radiated Spurious Data (NR Band n77 – High Channel – Ant C)

Case:	WPT
Bandwidth (MHz):	100
Frequency (MHz):	3840.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

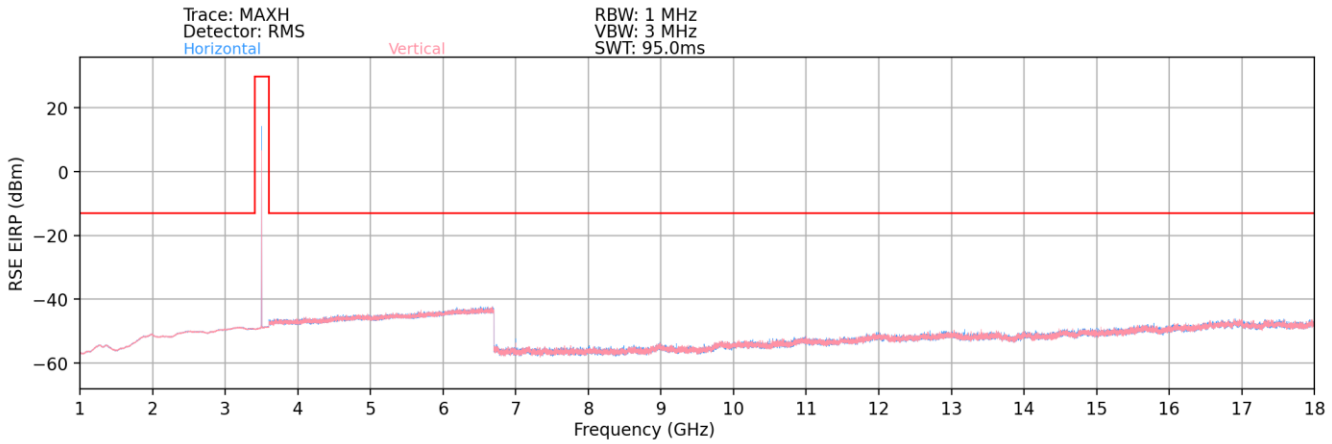
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7680.00	V	-	-	-75.21	7.53	39.32	-55.94	-13.00	-42.94
11520.00	V	-	-	-79.82	12.86	40.04	-55.22	-13.00	-42.22
15360.00	V	-	-	-76.66	15.97	46.31	-48.95	-13.00	-35.95
19200.00	V	-	-	-58.99	-7.81	40.20	-64.60	-13.00	-51.60
23040.00	V	-	-	-58.64	-6.58	41.78	-63.02	-13.00	-50.02
26880.00	V	-	-	-61.32	-5.56	40.12	-64.68	-13.00	-51.68
30720.00	V	-	-	-61.22	-3.40	42.38	-62.42	-13.00	-49.42
34560.00	V	-	-	-59.45	-2.60	44.95	-59.85	-13.00	-46.85

Table 7-35. Radiated Spurious Data with WCP (NR Band n77 – Ant C)

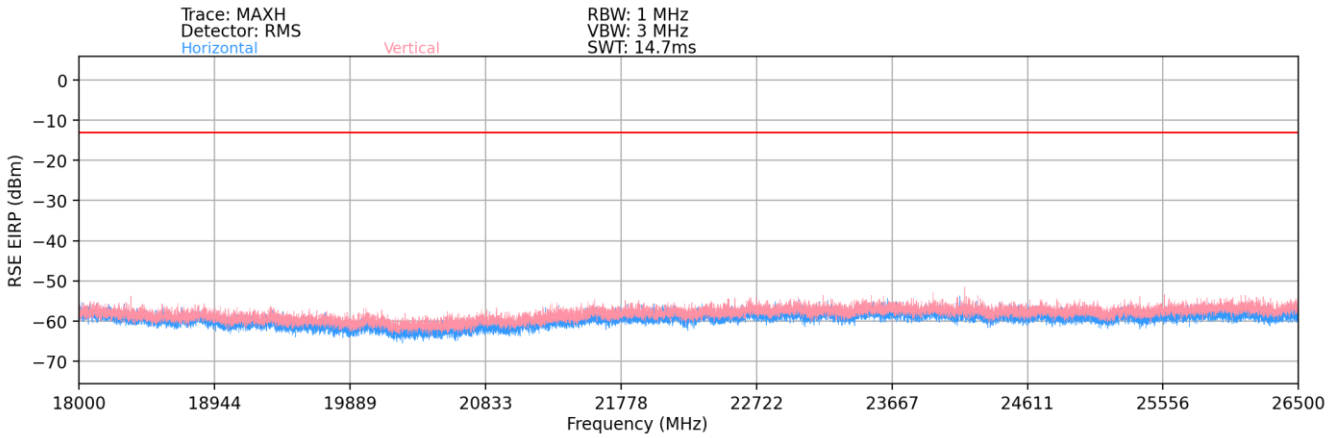
NR Band n77 (DoD Band) – SRS-4- Ant D



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



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



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