



Plot 7-200. PAR Plot (NR Band n77 PC2 - 30MHz CP-OFDM QPSK - Full RB)

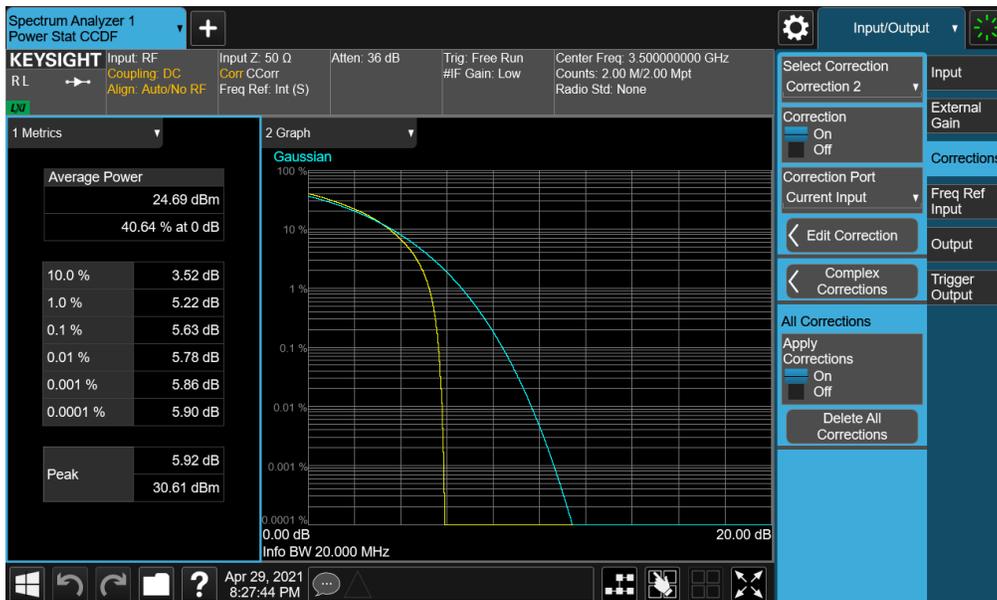


Plot 7-201. PAR Plot (NR Band n77 PC2 - 30MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-26.A3L	Test Dates: 3/26/2021 - 6/11/2021	EUT Type: Portable Handset		Page 128 of 152



Plot 7-202. PAR Plot (NR Band n77 PC2 - 20MHz $\pi/2$ BPSK - Full RB)



Plot 7-203. PAR Plot (NR Band n77 PC2 - 20MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-26.A3L	Test Dates: 3/26/2021 - 6/11/2021	EUT Type: Portable Handset		Page 129 of 152



Plot 7-204. PAR Plot (NR Band n77 PC2 - 20MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-26.A3L	Test Dates: 3/26/2021 - 6/11/2021	EUT Type: Portable Handset		Page 130 of 152

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 \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.

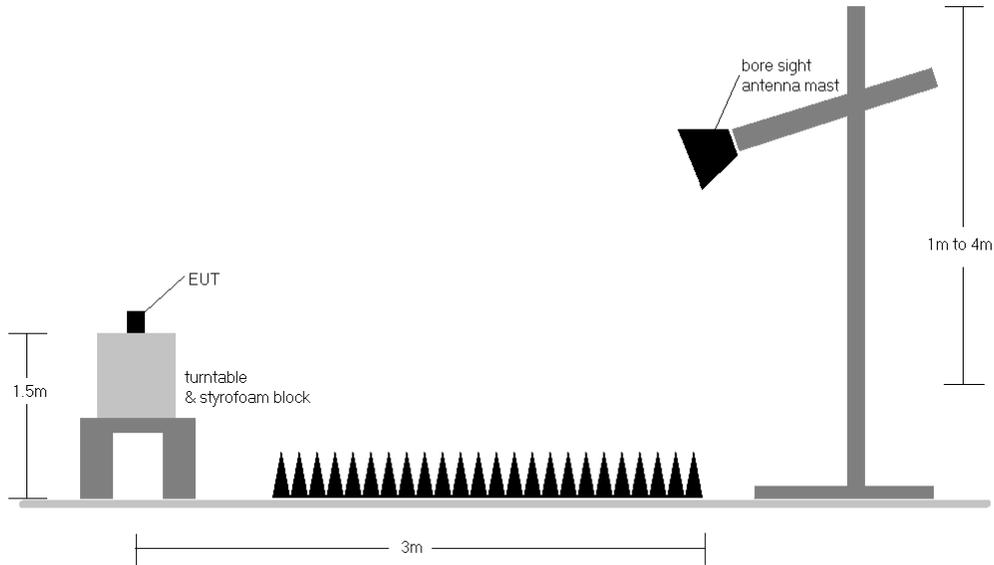


Figure 7-6. Radiated Test Setup >1GHz

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) 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.

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [HV]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	3750.00	H	117	49	5.94	1 / 136	14.95	20.89	0.123	30.00	-9.11
		3840.00	H	106	47	5.81	1 / 204	14.53	20.34	0.108	30.00	-9.66
		3930.00	H	103	355	6.21	1 / 68	15.08	21.29	0.135	30.00	-8.71
	QPSK	3750.00	H	117	49	5.94	1 / 136	14.87	20.81	0.121	30.00	-9.19
		3840.00	H	106	47	5.81	1 / 204	14.47	20.28	0.107	30.00	-9.72
		3930.00	H	103	355	6.21	1 / 68	15.04	21.25	0.133	30.00	-8.75
16-QAM	3930.00	H	103	355	6.21	1 / 68	13.97	20.18	0.104	30.00	-9.82	
90 MHz	π/2 BPSK	3745.02	H	117	49	5.96	1 / 61	15.58	21.54	0.143	30.00	-8.46
		3840.00	H	106	47	5.81	1 / 61	14.66	20.47	0.111	30.00	-9.53
		3934.98	H	103	355	6.26	1 / 122	15.64	21.90	0.155	30.00	-8.10
	QPSK	3745.02	H	117	49	5.96	1 / 61	15.24	21.20	0.132	30.00	-8.80
		3840.00	H	106	47	5.81	1 / 61	14.59	20.40	0.110	30.00	-9.60
		3934.98	H	103	355	6.26	1 / 122	14.96	21.23	0.133	30.00	-8.77
16-QAM	3934.98	H	103	355	6.26	1 / 122	13.48	19.74	0.094	30.00	-10.26	
80 MHz	π/2 BPSK	3740.01	H	117	49	5.99	1 / 54	14.42	20.41	0.110	30.00	-9.59
		3840.00	H	106	47	5.81	1 / 162	15.05	20.86	0.122	30.00	-9.14
		3939.99	H	103	355	6.31	1 / 162	15.09	21.40	0.138	30.00	-8.60
	QPSK	3740.01	H	117	49	5.99	1 / 54	14.24	20.22	0.105	30.00	-9.78
		3840.00	H	106	47	5.81	1 / 162	14.82	20.63	0.116	30.00	-9.37
		3939.99	H	103	355	6.31	1 / 162	15.12	21.43	0.139	30.00	-8.57
16-QAM	3939.99	H	103	355	6.31	1 / 162	14.55	20.86	0.122	30.00	-9.14	
70 MHz	π/2 BPSK	3735.00	H	117	49	6.01	1 / 141	15.06	21.07	0.128	30.00	-8.93
		3840.00	H	106	47	5.81	1 / 141	14.97	20.78	0.120	30.00	-9.22
		3945.00	H	103	355	6.36	1 / 141	15.19	21.55	0.143	30.00	-8.45
	QPSK	3735.00	H	117	49	6.01	1 / 141	15.27	21.28	0.134	30.00	-8.72
		3840.00	H	106	47	5.81	1 / 141	15.02	20.82	0.121	30.00	-9.18
		3945.00	H	103	355	6.36	1 / 141	15.35	21.71	0.148	30.00	-8.29
16-QAM	3945.00	H	103	355	6.36	1 / 141	13.80	20.17	0.104	30.00	-9.83	
60 MHz	π/2 BPSK	3730.02	H	117	49	6.03	1 / 81	14.74	20.78	0.120	30.00	-9.22
		3840.00	H	106	47	5.81	1 / 40	14.23	20.04	0.101	30.00	-9.96
		3949.98	H	103	355	6.41	1 / 121	14.84	21.25	0.133	30.00	-8.75
	QPSK	3730.02	H	117	49	6.03	1 / 81	14.78	20.82	0.121	30.00	-9.18
		3840.00	H	106	47	5.81	1 / 40	14.60	20.41	0.110	30.00	-9.59
		3949.98	H	103	355	6.41	1 / 121	14.86	21.27	0.134	30.00	-8.73
16-QAM	3949.98	H	103	355	6.41	1 / 121	13.86	20.27	0.106	30.00	-9.73	
50 MHz	π/2 BPSK	3725.01	H	117	49	6.06	1 / 33	15.29	21.35	0.136	30.00	-8.65
		3840.00	H	106	47	5.81	1 / 33	14.45	20.25	0.106	30.00	-9.75
		3954.99	H	103	355	6.48	1 / 33	15.16	21.64	0.146	30.00	-8.36
	QPSK	3725.01	H	117	49	6.06	1 / 33	15.28	21.34	0.136	30.00	-8.66
		3840.00	H	106	47	5.81	1 / 33	14.36	20.17	0.104	30.00	-9.83
		3954.99	H	103	355	6.48	1 / 33	14.85	21.33	0.136	30.00	-8.67
16-QAM	3954.99	H	103	355	6.48	1 / 33	12.79	19.28	0.085	30.00	-10.72	
40 MHz	π/2 BPSK	3720.00	H	117	49	6.08	1 / 79	15.39	21.47	0.140	30.00	-8.53
		3840.00	H	106	47	5.81	1 / 79	15.00	20.81	0.121	30.00	-9.19
		3960.00	H	103	355	6.56	1 / 79	15.70	22.25	0.168	30.00	-7.75
	QPSK	3720.00	H	117	49	6.08	1 / 79	15.16	21.23	0.133	30.00	-8.77
		3840.00	H	106	47	5.81	1 / 79	14.61	20.42	0.110	30.00	-9.58
		3960.00	H	103	355	6.56	1 / 79	15.06	21.62	0.145	30.00	-8.38
16-QAM	3960.00	H	103	355	6.56	1 / 79	13.76	20.32	0.108	30.00	-9.68	
30 MHz	π/2 BPSK	3715.02	H	117	49	6.10	1 / 39	15.22	21.32	0.135	30.00	-8.68
		3840.00	H	106	47	5.81	1 / 19	14.55	20.36	0.109	30.00	-9.64
		3964.98	H	103	355	6.63	1 / 58	15.51	22.15	0.164	30.00	-7.85
	QPSK	3715.02	H	117	49	6.10	1 / 39	15.01	21.11	0.129	30.00	-8.89
		3840.00	H	106	47	5.81	1 / 19	14.63	20.43	0.111	30.00	-9.57
		3964.98	H	103	355	6.63	1 / 58	15.33	21.97	0.157	30.00	-8.03
16-QAM	3964.98	H	103	355	6.63	1 / 58	13.38	20.01	0.100	30.00	-9.99	
20 MHz	π/2 BPSK	3710.01	H	117	49	6.13	1 / 25	15.22	21.35	0.136	30.00	-8.65
		3840.00	H	106	47	5.81	1 / 13	15.11	20.92	0.124	30.00	-9.08
		3969.99	H	103	355	6.70	1 / 13	15.77	22.47	0.177	30.00	-7.53
	QPSK	3710.01	H	117	49	6.13	1 / 25	15.23	21.36	0.137	30.00	-8.64
		3840.00	H	106	47	5.81	1 / 13	15.14	20.95	0.124	30.00	-9.05
		3969.99	H	103	355	6.70	1 / 13	15.97	22.68	0.185	30.00	-7.32
16-QAM	3969.99	H	103	355	6.70	1 / 13	14.52	21.22	0.132	30.00	-8.78	
20 MHz	QPSK (CP-OFDM)	3930.0	H	110	355	5.81	1 / 13	14.55	20.36	0.109	30.00	-9.64
	QPSK (Opposite Pol.)	3930.0	V	241	325	5.81	1 / 13	14.07	19.88	0.097	30.00	-10.12
	QPSK (Closed)	3930.0	H	103	355	5.81	1 / 13	14.09	19.90	0.098	30.00	-10.10
	QPSK (WCP)	3930.0	H	146	244	5.81	1 / 13	13.08	18.89	0.077	30.00	-11.11

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

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-26.A3L	Test Dates: 3/26/2021 - 6/11/2021	EUT Type: Portable Handset	Page 133 of 152

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	115.0	346.0	7.52	1 / 136	11.21	18.73	0.075	30.00	-11.27
	QPSK	3500.01	H	115.0	346.0	7.52	1 / 136	11.12	18.64	0.073	30.00	-11.36
	16-QAM	3500.01	H	115.0	346.0	7.52	1 / 136	9.86	17.38	0.055	30.00	-12.62
90 MHz	$\pi/2$ BPSK	3495.00	H	115.0	346.0	7.53	1 / 122	11.07	18.59	0.072	30.00	-11.41
		3500.01	H	115.0	346.0	7.52	1 / 122	10.94	18.46	0.070	30.00	-11.54
		3504.99	H	115.0	346.0	7.49	1 / 122	10.88	18.37	0.069	30.00	-11.63
	QPSK	3495.00	H	115.0	346.0	7.53	1 / 122	10.98	18.50	0.071	30.00	-11.50
		3500.01	H	115.0	346.0	7.52	1 / 122	10.92	18.44	0.070	30.00	-11.56
		3504.99	H	115.0	346.0	7.49	1 / 122	10.81	18.30	0.068	30.00	-11.70
16-QAM	3495.00	H	115.0	346.0	7.53	1 / 122	9.67	17.20	0.053	30.00	-12.80	
80 MHz	$\pi/2$ BPSK	3490.02	H	115.0	346.0	7.53	1 / 108	11.07	18.61	0.073	30.00	-11.39
		3500.01	H	115.0	346.0	7.52	1 / 108	10.97	18.49	0.071	30.00	-11.51
		3510.00	H	115.0	346.0	7.46	1 / 108	10.98	18.43	0.070	30.00	-11.57
	QPSK	3490.02	H	115.0	346.0	7.53	1 / 108	11.02	18.55	0.072	30.00	-11.45
		3500.01	H	115.0	346.0	7.52	1 / 108	10.95	18.47	0.070	30.00	-11.53
		3510.00	H	115.0	346.0	7.46	1 / 108	10.80	18.25	0.067	30.00	-11.75
16-QAM	3490.02	H	115.0	346.0	7.53	1 / 108	9.67	17.20	0.053	30.00	-12.80	
70 MHz	$\pi/2$ BPSK	3485.01	H	115.0	346.0	7.54	1 / 94	10.77	18.31	0.068	30.00	-11.69
		3500.01	H	115.0	346.0	7.52	1 / 94	10.91	18.43	0.070	30.00	-11.57
		3514.98	H	115.0	346.0	7.43	1 / 94	11.06	18.49	0.071	30.00	-11.51
	QPSK	3485.01	H	115.0	346.0	7.54	1 / 94	10.74	18.28	0.067	30.00	-11.72
		3500.01	H	115.0	346.0	7.52	1 / 94	10.79	18.31	0.068	30.00	-11.69
		3514.98	H	115.0	346.0	7.43	1 / 94	10.97	18.40	0.069	30.00	-11.60
16-QAM	3514.98	H	115.0	346.0	7.43	1 / 94	9.49	16.91	0.049	30.00	-13.09	
60 MHz	$\pi/2$ BPSK	3480.00	H	115.0	346.0	7.55	1 / 81	11.04	18.59	0.072	30.00	-11.41
		3500.01	H	115.0	346.0	7.52	1 / 81	11.05	18.57	0.072	30.00	-11.43
		3519.99	H	115.0	346.0	7.39	1 / 81	10.97	18.37	0.069	30.00	-11.63
	QPSK	3480.00	H	115.0	346.0	7.55	1 / 81	11.18	18.73	0.075	30.00	-11.27
		3500.01	H	115.0	346.0	7.52	1 / 81	11.14	18.66	0.073	30.00	-11.34
		3519.99	H	115.0	346.0	7.39	1 / 81	11.10	18.50	0.071	30.00	-11.50
16-QAM	3500.01	H	115.0	346.0	7.52	1 / 81	9.79	17.31	0.054	30.00	-12.69	
50 MHz	$\pi/2$ BPSK	3475.02	H	115.0	346.0	7.55	1 / 66	10.85	18.41	0.069	30.00	-11.59
		3500.01	H	115.0	346.0	7.52	1 / 66	10.77	18.29	0.067	30.00	-11.71
		3525.00	H	115.0	346.0	7.36	1 / 66	10.95	18.31	0.068	30.00	-11.69
	QPSK	3475.02	H	115.0	346.0	7.55	1 / 66	11.03	18.58	0.072	30.00	-11.42
		3500.01	H	115.0	346.0	7.52	1 / 66	10.82	18.34	0.068	30.00	-11.66
		3525.00	H	115.0	346.0	7.36	1 / 66	11.03	18.39	0.069	30.00	-11.61
16-QAM	3475.02	H	115.0	346.0	7.55	1 / 66	9.63	17.19	0.052	30.00	-12.81	
40 MHz	$\pi/2$ BPSK	3470.01	H	115.0	346.0	7.56	1 / 53	11.11	18.67	0.074	30.00	-11.33
		3500.01	H	115.0	346.0	7.52	1 / 53	11.12	18.64	0.073	30.00	-11.36
		3529.98	H	115.0	346.0	7.33	1 / 53	11.21	18.54	0.071	30.00	-11.46
	QPSK	3470.01	H	115.0	346.0	7.56	1 / 53	11.06	18.62	0.073	30.00	-11.38
		3500.01	H	115.0	346.0	7.52	1 / 53	11.22	18.74	0.075	30.00	-11.26
		3529.98	H	115.0	346.0	7.33	1 / 53	11.28	18.61	0.073	30.00	-11.39
16-QAM	3500.01	H	115.0	346.0	7.52	1 / 53	9.86	17.38	0.055	30.00	-12.62	
30 MHz	$\pi/2$ BPSK	3465.00	H	115.0	346.0	7.57	1 / 39	10.98	18.55	0.072	30.00	-11.45
		3500.01	H	115.0	346.0	7.52	1 / 39	10.94	18.46	0.070	30.00	-11.54
		3534.99	H	115.0	346.0	7.30	1 / 39	11.32	18.61	0.073	30.00	-11.39
	QPSK	3465.00	H	115.0	346.0	7.57	1 / 39	11.04	18.61	0.073	30.00	-11.39
		3500.01	H	115.0	346.0	7.52	1 / 39	11.11	18.63	0.073	30.00	-11.37
		3534.99	H	115.0	346.0	7.30	1 / 39	11.37	18.67	0.074	30.00	-11.33
16-QAM	3500.01	H	115.0	346.0	7.52	1 / 39	9.76	17.28	0.053	30.00	-12.72	
20 MHz	$\pi/2$ BPSK	3460.02	H	115.0	346.0	7.57	1 / 25	10.92	18.49	0.071	30.00	-11.51
		3500.01	H	115.0	346.0	7.52	1 / 13	11.00	18.52	0.071	30.00	-11.48
		3540.00	H	115.0	346.0	7.27	1 / 13	11.09	18.36	0.069	30.00	-11.64
	QPSK	3460.02	H	115.0	346.0	7.57	1 / 25	11.09	18.66	0.073	30.00	-11.34
		3500.01	H	115.0	346.0	7.52	1 / 13	10.90	18.42	0.069	30.00	-11.58
		3540.00	H	115.0	346.0	7.27	1 / 25	11.20	18.47	0.070	30.00	-11.53
16-QAM	3460.02	H	115.0	346.0	7.57	1 / 25	9.78	17.35	0.054	30.00	-12.65	
20 MHz	QPSK (CP-OFDM)	3500.01	H	115.0	346.0	7.52	1 / 136	8.90	16.42	0.044	30.00	-13.58
	QPSK (Opposite Pol.)	3500.01	V	100.0	346.0	7.52	1 / 136	8.70	16.22	0.042	30.00	-13.78
	QPSK (Closed)	3500.01	H	123.0	119.0	7.52	1 / 136	9.74	17.26	0.053	30.00	-12.74
	QPSK (WCP)	3500.01	H	214.0	193.0	7.52	1 / 136	8.15	15.67	0.037	30.00	-14.33

Table 7-11. EIRP Data (NR Band n77 – DoD Band – SRS-1)

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-26.A3L	Test Dates: 3/26/2021 - 6/11/2021	EUT Type: Portable Handset	Page 134 of 152

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

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Test Setup

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

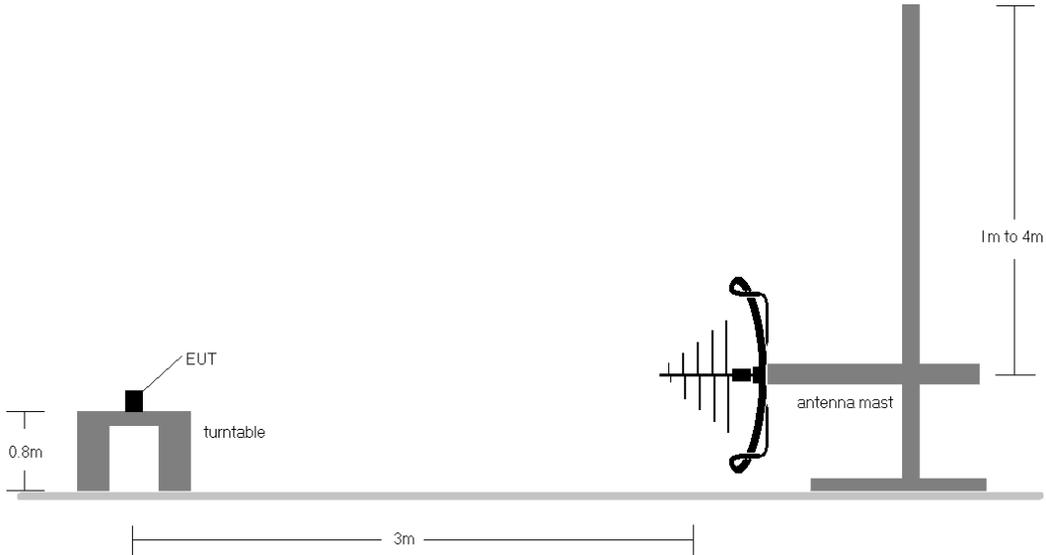


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

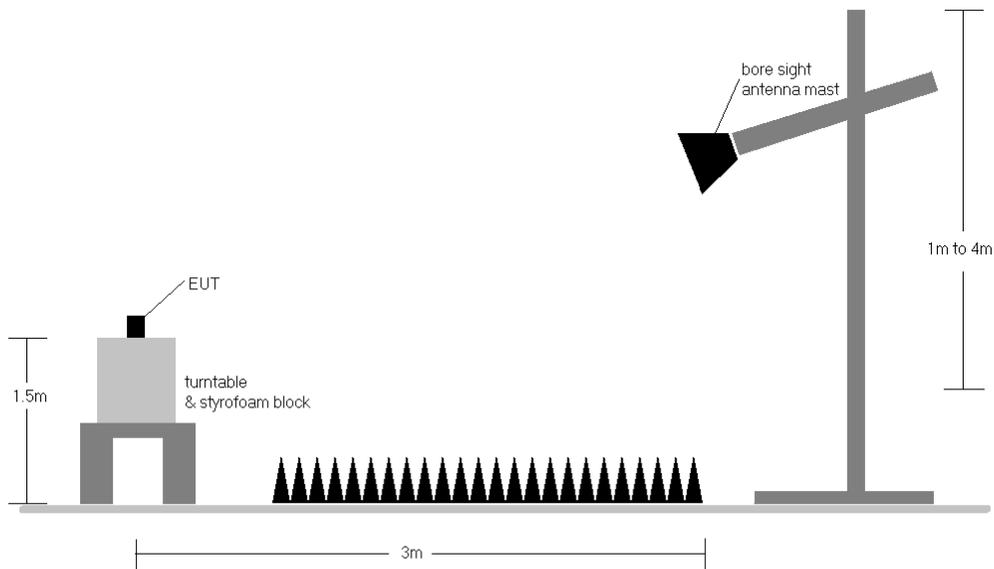


Figure 7-8. Test Instrument & Measurement Setup >1 GHz

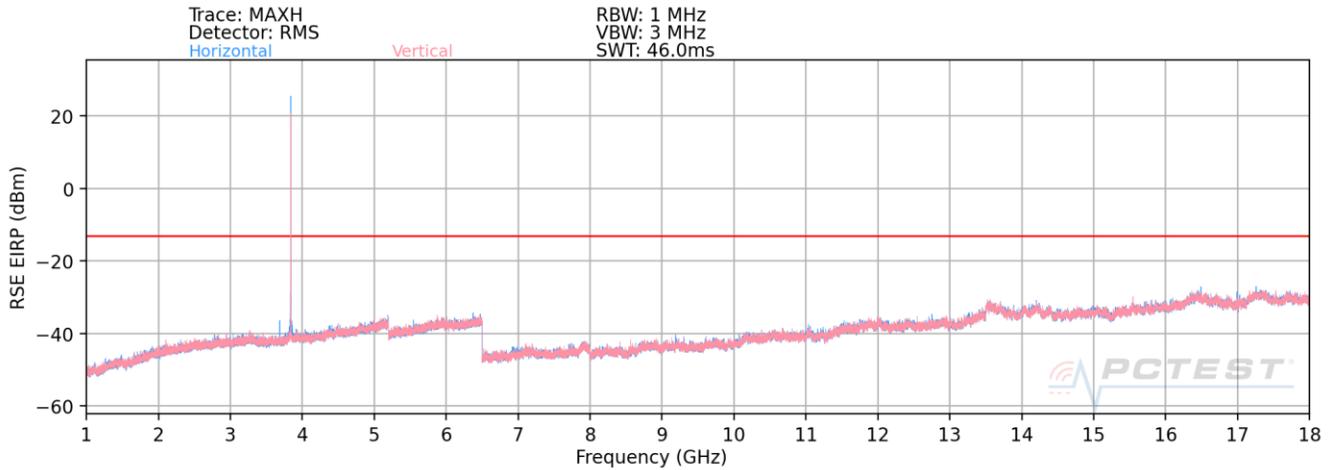
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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - 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 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 are 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.
- 10) No significant emissions were found above 18 GHz.
- 11) For operation in DoD Band (3450-3550MHz), the maximum channel bandwidth (100 MHz) occupies the entirety of the band. Therefore, radiated spurious emission data for DoD Band operation is provided for only this single maximum-bandwidth channel. However, multiple RB configurations and offsets were investigated within this channel and the worst case results are displayed.

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NR Band n77 – C-Band – SRS-1



Plot 7-205. Radiated Spurious Plot (NR Band n77 – SRS-1)

Bandwidth (MHz):	100
Frequency (MHz):	3750.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7500.0	V	126	242	-69.69	16.49	53.80	-41.45	-13.00	-28.45
11250.0	V	-	-	-74.56	21.82	54.26	-41.00	-13.00	-28.00
15000.0	V	-	-	-75.69	27.91	59.22	-36.04	-13.00	-23.04

Table 7-12. Radiated Spurious Data (NR Band n77 – Low Channel – SRS-1)

Bandwidth (MHz):	100
Frequency (MHz):	3840.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7680.0	V	133	249	-70.01	16.82	53.81	-41.45	-13.00	-28.45
11520.0	V	-	-	-75.01	22.90	54.89	-40.37	-13.00	-27.37
15360.0	V	-	-	-75.54	28.37	59.83	-35.43	-13.00	-22.43

Table 7-13. Radiated Spurious Data (NR Band n77 – Mid Channel – SRS-1)

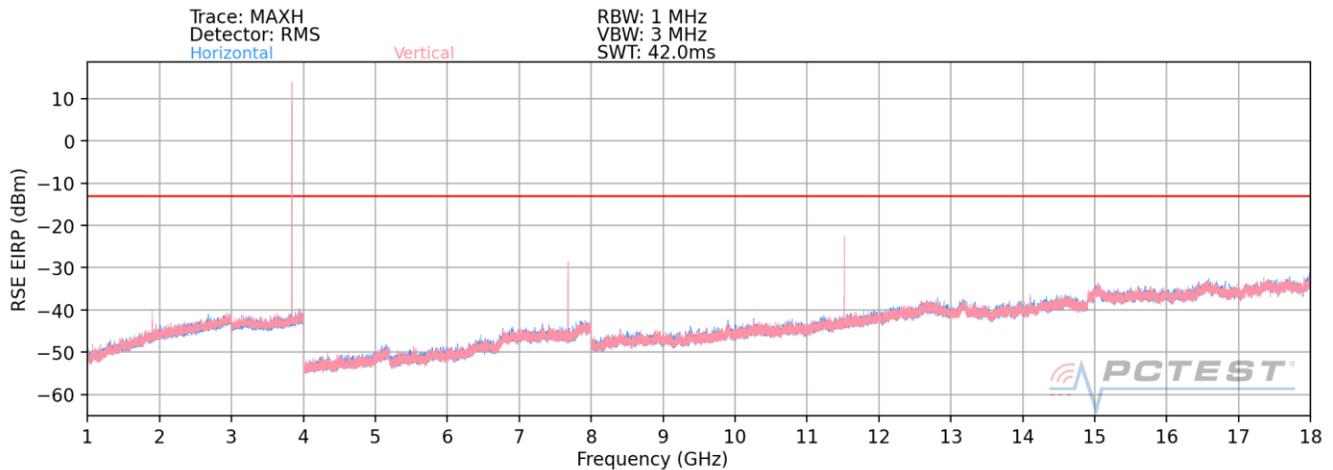
Bandwidth (MHz):	100
Frequency (MHz):	3930.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7860.0	V	-	-	-70.01	16.83	53.82	-41.44	-13.00	-28.44
11790.0	V	-	-	-73.56	22.99	56.43	-38.83	-13.00	-25.83
15720.0	V	-	-	-75.41	29.31	60.90	-34.35	-13.00	-21.35

Table 7-14. Radiated Spurious Data (NR Band n77 – High Channel – SRS-1)

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – C-Band – SRS-2



Plot 7-206. Radiated Spurious Plot (NR Band n77 – SRS-2)

Bandwidth (MHz):	100
Frequency (MHz):	3750.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7500.0	V	150	11	-65.85	16.49	57.64	-37.61	-13.00	-24.61
11250.0	V	129	319	-62.11	21.82	66.71	-28.55	-13.00	-15.55
15000.0	V	-	-	-75.64	27.91	59.27	-35.99	-13.00	-22.99

Table 7-15. Radiated Spurious Data (NR Band n77 – Low Channel – SRS-2)

Bandwidth (MHz):	100
Frequency (MHz):	3840.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7680.0	V	310	348	-68.42	16.82	55.40	-39.86	-13.00	-26.86
11520.0	V	153	356	-63.33	22.90	66.57	-28.69	-13.00	-15.69
15360.0	V	-	-	-73.38	28.37	61.99	-33.27	-13.00	-20.27

Table 7-16. Radiated Spurious Data (NR Band n77 – Mid Channel – SRS-2)

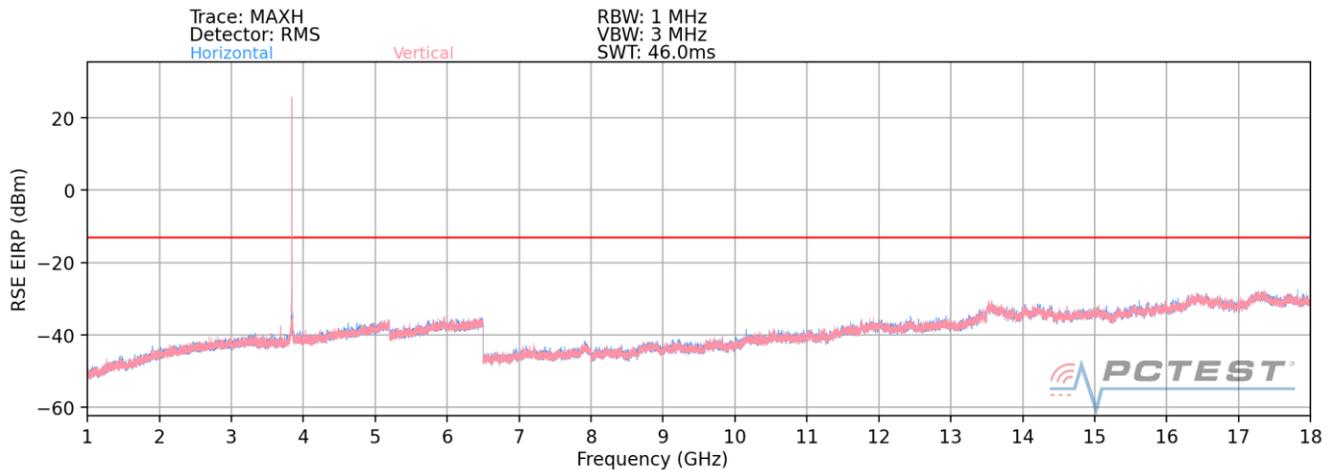
Bandwidth (MHz):	100
Frequency (MHz):	3930.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7860.0	V	248	326	-69.91	16.83	53.92	-41.34	-13.00	-28.34
11790.0	V	107	339	-64.56	22.99	65.43	-29.83	-13.00	-16.83
15720.0	V	-	-	-72.86	29.31	63.45	-31.80	-13.00	-18.80

Table 7-17. Radiated Spurious Data (NR Band n77 – High Channel – SRS-2)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – C-Band – SRS-3



Plot 7-207. Radiated Spurious Plot (NR Band n77 – SRS-3)

Bandwidth (MHz):	100
Frequency (MHz):	3750.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7500.0	V	192	8	-81.99	16.49	41.50	-53.75	-13.00	-40.75
11250.0	V	198	10	-79.19	21.82	49.63	-45.63	-13.00	-32.63
15000.0	V	-	-	-78.66	27.91	56.25	-39.01	-13.00	-26.01

Table 7-18. Radiated Spurious Data (NR Band n77 – Low Channel – SRS-3)

Bandwidth (MHz):	100
Frequency (MHz):	3840.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7680.0	V	107	145	-72.13	16.82	51.69	-43.57	-13.00	-30.57
11520.0	V	-	-	-73.46	22.90	56.44	-38.82	-13.00	-25.82
15360.0	V	-	-	-74.61	28.37	60.76	-34.50	-13.00	-21.50

Table 7-19. Radiated Spurious Data (NR Band n77 – Mid Channel – SRS-3)

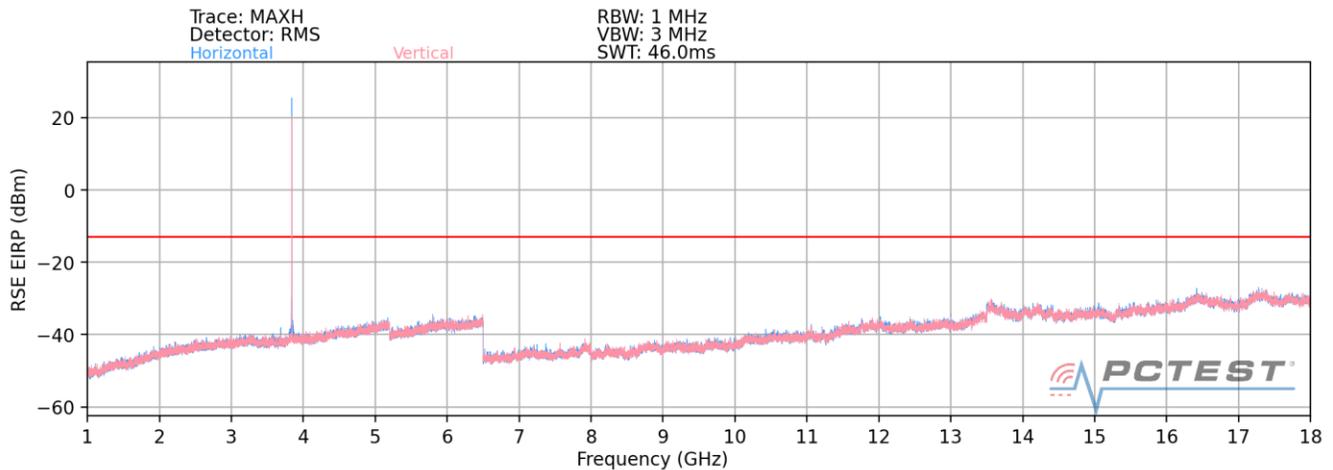
Bandwidth (MHz):	100
Frequency (MHz):	3930.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7860.0	V	118	357	-71.46	16.83	52.37	-42.89	-13.00	-29.89
11790.0	V	136	323	-70.08	22.99	59.91	-35.35	-13.00	-22.35
15720.0	V	-	-	-73.65	29.31	62.66	-32.59	-13.00	-19.59

Table 7-20. Radiated Spurious Data (NR Band n77 – High Channel – SRS-3)

FCC ID: A3LSMF926U	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n77 – C-Band – SRS-4



Plot 7-208. Radiated Spurious Plot (NR Band n77 – SRS-4)

Bandwidth (MHz):	100
Frequency (MHz):	3750.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7500.0	V	102	284	-79.73	16.49	43.76	-51.49	-13.00	-38.49
11250.0	V	100	291	-75.93	21.82	52.89	-42.37	-13.00	-29.37
15000.0	V	-	-	-85.98	27.91	48.93	-46.33	-13.00	-33.33

Table 7-21. Radiated Spurious Data (NR Band n77 – Low Channel – SRS-4)

Bandwidth (MHz):	100
Frequency (MHz):	3840.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7680.0	V	100	314	-71.58	16.82	52.24	-43.02	-13.00	-30.02
11520.0	V	115	316	-70.39	22.90	59.51	-35.75	-13.00	-22.75
15360.0	V	-	-	-73.21	28.37	62.16	-33.10	-13.00	-20.10

Table 7-22. Radiated Spurious Data (NR Band n77 – Mid Channel – SRS-4)

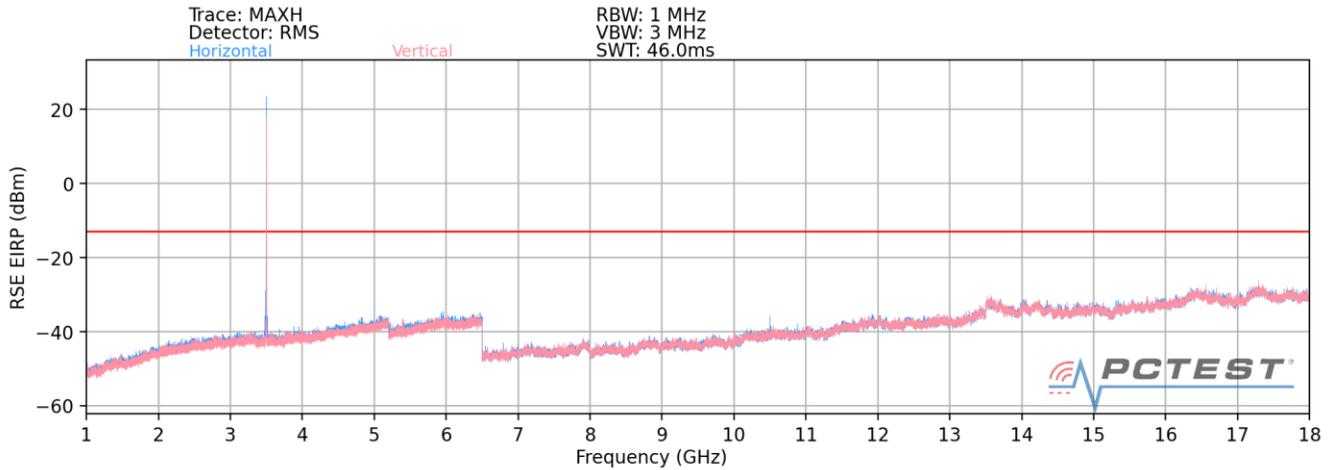
Bandwidth (MHz):	100
Frequency (MHz):	3930.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7860.0	V	114	292	-70.64	16.83	53.19	-42.07	-13.00	-29.07
11790.0	V	104	140	-64.42	22.99	65.57	-29.69	-13.00	-16.69
15720.0	V	-	-	-83.21	29.31	53.10	-42.15	-13.00	-29.15

Table 7-23. Radiated Spurious Data (NR Band n77 – High Channel – SRS-4)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – DoD Band – SRS-1



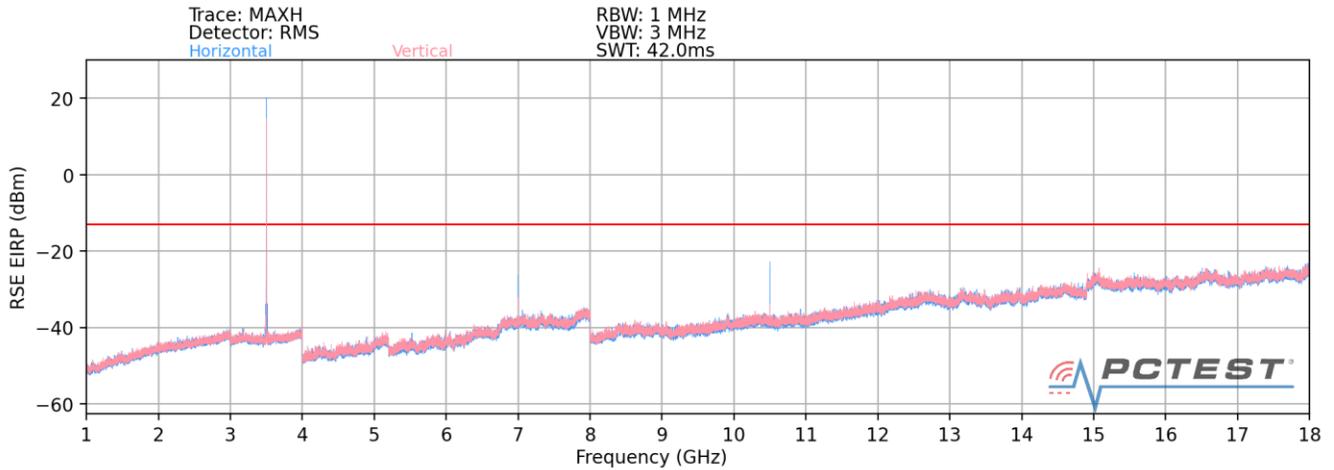
Plot 7-209. Radiated Spurious Plot (NR Band n77 – SRS-1)

Bandwidth (MHz):	100								
Frequency (MHz):	3500.0								
RB / Offset:	1 / 136								
Mode:	Standalone								
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]
7000.0	V	246	58	-74.24	20.97	53.73	-41.53	-13.00	-28.53
10500.0	V	-	-	-75.25	25.37	57.12	-38.14	-13.00	-25.14
14000.0	V	-	-	-78.01	29.68	58.67	-36.59	-13.00	-23.59
17500.0	V	-	-	-79.11	35.18	63.07	-32.18	-13.00	-19.18

Table 7-24. Radiated Spurious Data (NR Band n77 – SRS-1)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – DoD Band – SRS-2



Plot 7-210. Radiated Spurious Plot (NR Band n77 – SRS-2)

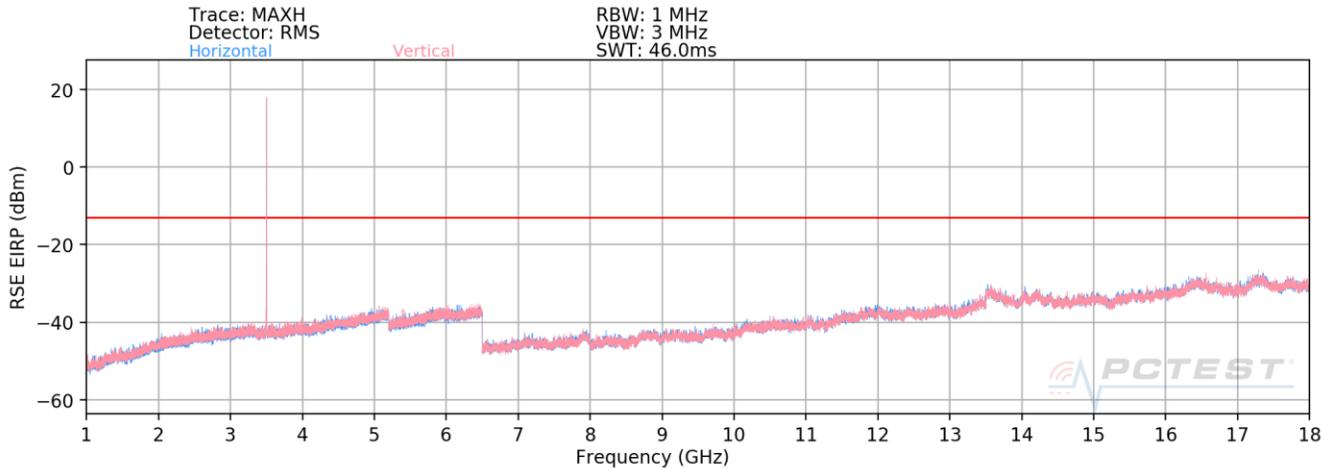
Bandwidth (MHz):	100
Frequency (MHz):	3500.0
RB / Offset:	1 / 135
Mode:	Standalone

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]
7000.0	H	366	46	-72.66	20.97	55.31	-39.95	-13.00	-26.95
10500.0	H	354	11	-73.21	25.37	59.16	-36.10	-13.00	-23.10
14000.0	H	-	-	-78.21	29.68	58.47	-36.79	-13.00	-23.79
17500.0	H	-	-	-79.01	35.18	63.17	-32.08	-13.00	-19.08

Table 7-25. Radiated Spurious Data (NR Band n77 – SRS-2)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – DoD Band – SRS-3



Plot 7-211. Radiated Spurious Plot (NR Band n77 – SRS-3)

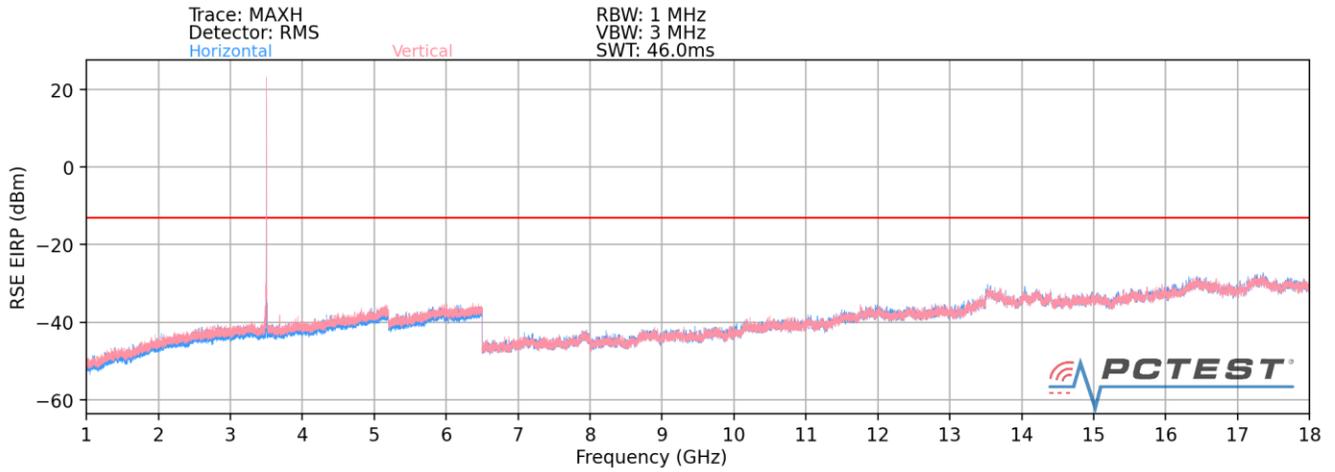
Bandwidth (MHz):	100
Frequency (MHz):	3500.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7000.0	H	196	44	-72.69	20.97	55.28	-39.98	-13.00	-26.98
10500.0	H	-	-	-76.21	25.37	56.16	-39.10	-13.00	-26.10
14000.0	H	-	-	-77.01	29.68	59.67	-35.59	-13.00	-22.59
17500.0	H	-	-	-76.11	35.18	66.07	-29.18	-13.00	-16.18

Table 7-26. Radiated Spurious Data (NR Band n77 – SRS-3)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – DoD Band – SRS-4



Plot 7-212. Radiated Spurious Plot (NR Band n77 – SRS-4)

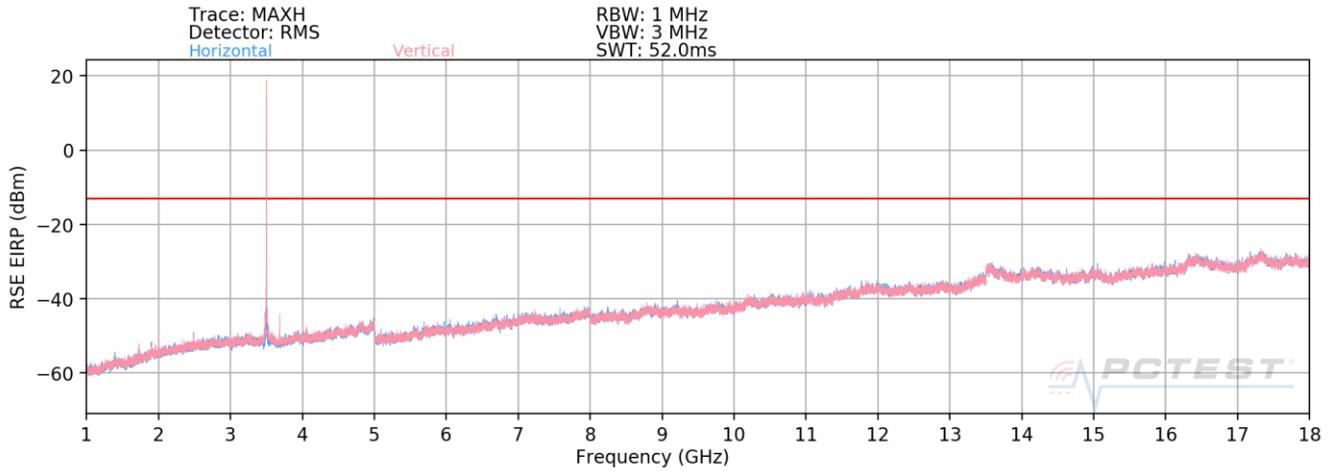
Bandwidth (MHz):	100
Frequency (MHz):	3500.0
RB / Offset:	1 / 136
Mode:	Standalone

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]
7000.0	H	158	290	-71.18	20.97	56.79	-38.47	-13.00	-25.47
10500.0	H	-	-	-73.45	25.37	58.92	-36.34	-13.00	-23.34
14000.0	H	-	-	-74.21	29.68	62.47	-32.79	-13.00	-19.79
17500.0	H	-	-	-75.11	35.18	67.07	-28.18	-13.00	-15.18

Table 7-27. Radiated Spurious Data (NR Band n77 – SRS-4)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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EN-DC – n77 (PC2 - SRS-1) + B5



Plot 7-213. Radiated Spurious Plot (NR Band n77 PC2 – EN-DC Anchor B5)

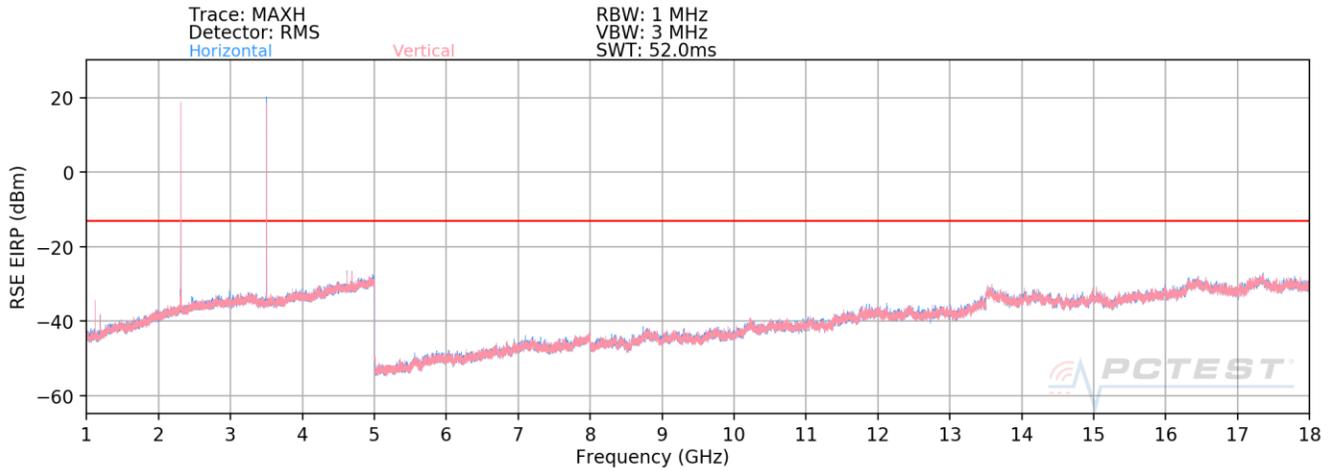
Bandwidth (MHz):	100 & 10
Frequency (MHz):	3500 & 836.5
RB / Offset:	1/136 & 1/25
Mode:	EN-DC
Anchor Band:	B5

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]
4490.5	V	-	-	-80.89	18.87	44.98	-50.28	-13.00	-37.28
6163.5	V	-	-	-82.23	22.09	46.86	-48.40	-13.00	-35.40
7154.0	V	-	-	-82.11	15.65	40.54	-54.72	-13.00	-41.72

Table 7-28. Radiated Spurious Data (NR Band n77 PC2 – EN-DC Anchor B5)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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EN-DC – n77 (PC2 - SRS-1) + B30



Plot 7-214. Radiated Spurious Plot (NR Band n77 PC2 – EN-DC Anchor B30)

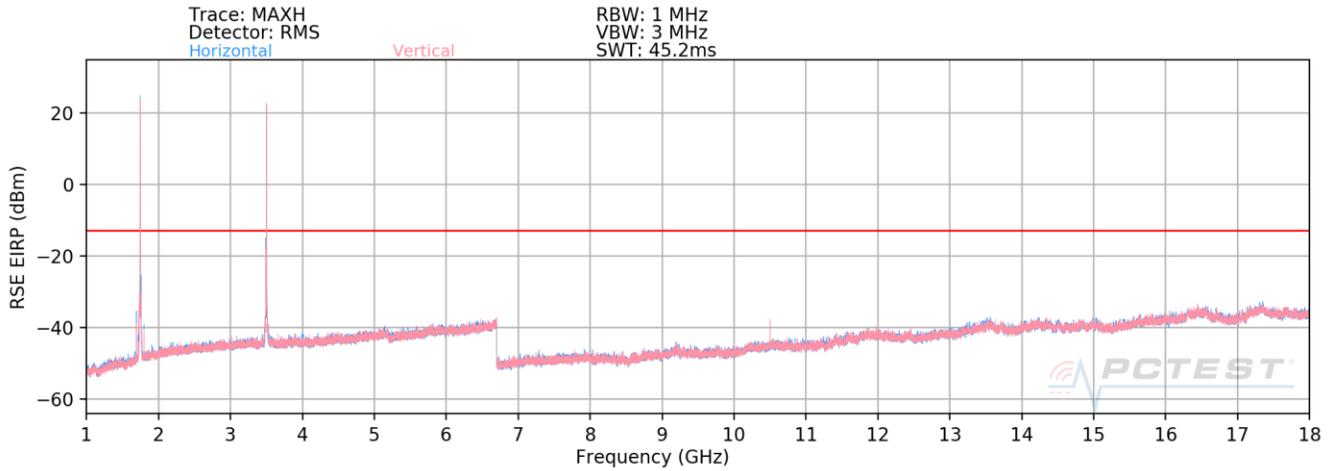
Bandwidth (MHz):	100 & 10
Frequency (MHz):	3500 & 2310
RB / Offset:	1/136 & 1/25
Mode:	EN-DC
Anchor Band:	B30

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]
4690.0	H	-	-	-80.82	18.43	44.61	-50.64	-13.00	-37.64
5880.0	H	-	-	-82.00	21.76	46.76	-48.50	-13.00	-35.50
7070.0	H	-	-	-82.42	15.27	39.85	-55.41	-13.00	-42.41

Table 7-29. Radiated Spurious Data (NR Band n77 PC2 – EN-DC Anchor B30)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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EN-DC – n77 (PC2 - SRS-1) + B66



Plot 7-215. Radiated Spurious Plot (NR Band n77 PC2 – EN-DC Anchor B66)

Bandwidth (MHz):	100 & 20
Frequency (MHz):	3500 & 1745
RB / Offset:	1/136 & 1/50
Mode:	EN-DC
Anchor Band:	B66

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]
5225.0	V	-	-	-81.71	19.79	45.08	-50.17	-13.00	-37.17
7010.0	V	393	9	-78.97	15.36	43.39	-51.87	-13.00	-38.87
8765.0	V	-	-	-83.40	17.83	41.43	-53.83	-13.00	-40.83
10500.1	V	191	343	-76.05	21.42	52.37	-42.89	-13.00	-29.89
10520.0	V	-	-	-84.11	21.53	44.42	-50.84	-13.00	-37.84
12275.0	V	-	-	-84.73	24.01	46.28	-48.98	-13.00	-35.98
14030.0	V	-	-	-84.58	27.61	50.03	-45.23	-13.00	-32.23

Table 7-30. Radiated Spurious Data (NR Band n77 PC2 – EN-DC Anchor B66)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

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

Test Procedure Used

ANSI/TIA-603-E-2016

Test Settings

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

Test Setup

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

Test Notes

None

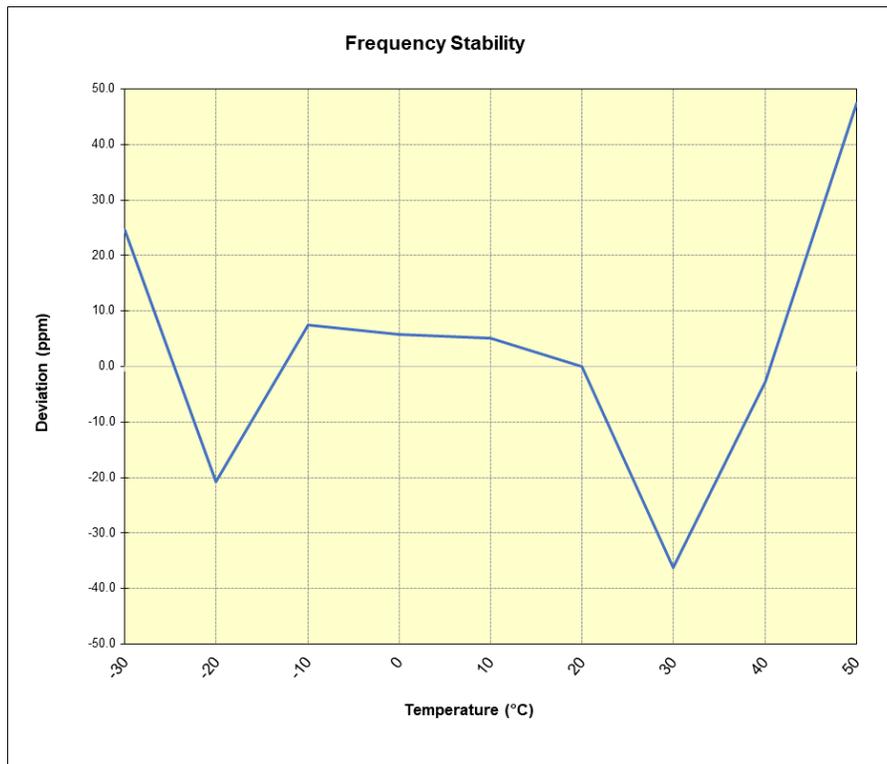
FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 (PC2) - SRS-1 - C-Band

Operating Frequency (Hz):	3,840,000,000
Ref. Voltage (VDC):	4.36

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	3,839,674,213	94,426	0.0024593
		- 20	3,839,500,476	-79,311	-0.0020656
		- 10	3,839,608,364	28,577	0.0007443
		0	3,839,602,159	22,372	0.0005827
		+ 10	3,839,599,422	19,635	0.0005114
		+ 20 (Ref)	3,839,579,787	0	0.0000000
		+ 30	3,839,440,928	-138,859	-0.0036165
		+ 40	3,839,569,222	-10,565	-0.0002752
Battery Endpoint	2.46	+ 20	3,839,617,332	37,545	0.0009778

Table 7-31. NR Band n77 (PC2) C-Band - Frequency Stability Data

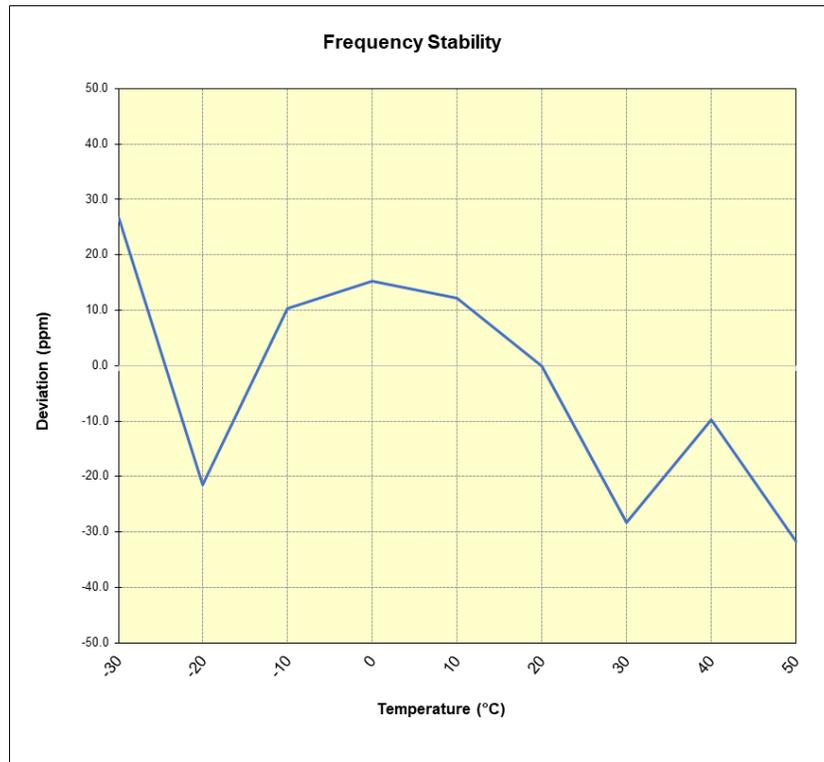


Plot 7-216. NR Band n77 (PC2) C-Band - Frequency Stability Chart

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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NR Band n77 (PC2) - SRS-1 - DoD Band					
Operating Frequency (Hz):		3,500,000,000			
Ref. Voltage (VDC):		4.36			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	3,499,693,588	93,103	0.0026604
		- 20	3,499,525,030	-75,455	-0.0021561
		- 10	3,499,636,600	36,115	0.0010320
		0	3,499,653,611	53,126	0.0015181
		+ 10	3,499,643,255	42,770	0.0012221
		+ 20 (Ref)	3,499,600,485	0	0.0000000
		+ 30	3,499,501,222	-99,263	-0.0028364
		+ 40	3,499,566,258	-34,227	-0.0009780
		+ 50	3,499,489,326	-111,159	-0.0031763
Battery Endpoint	2.46	+ 20	3,499,641,449	40,964	0.0011705

Table 7-32. NR Band n77 (PC2) DoD-Band - Frequency Stability Data



Plot 7-217. NR Band n77 (PC2) DoD-Band - Frequency Stability Chart

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Samsung **Portable Handset** **FCC ID: A3LSMF926U** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT 		Approved by: Technical Manager
Test Report S/N: 1M2104020031-26.A3L	Test Dates: 3/26/2021 - 6/11/2021	EUT Type: Portable Handset	Page 152 of 152