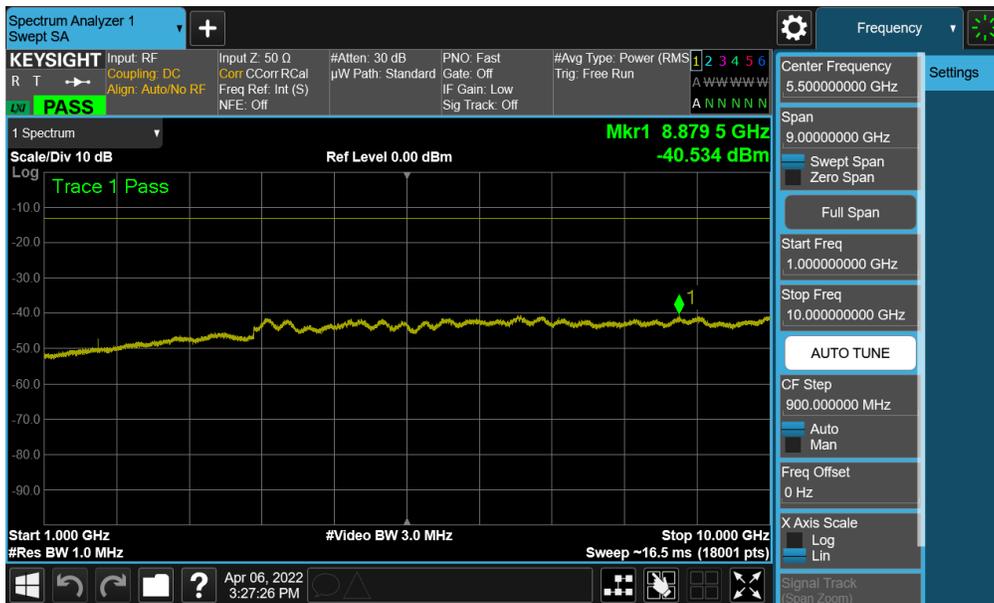


Plot 7-86. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

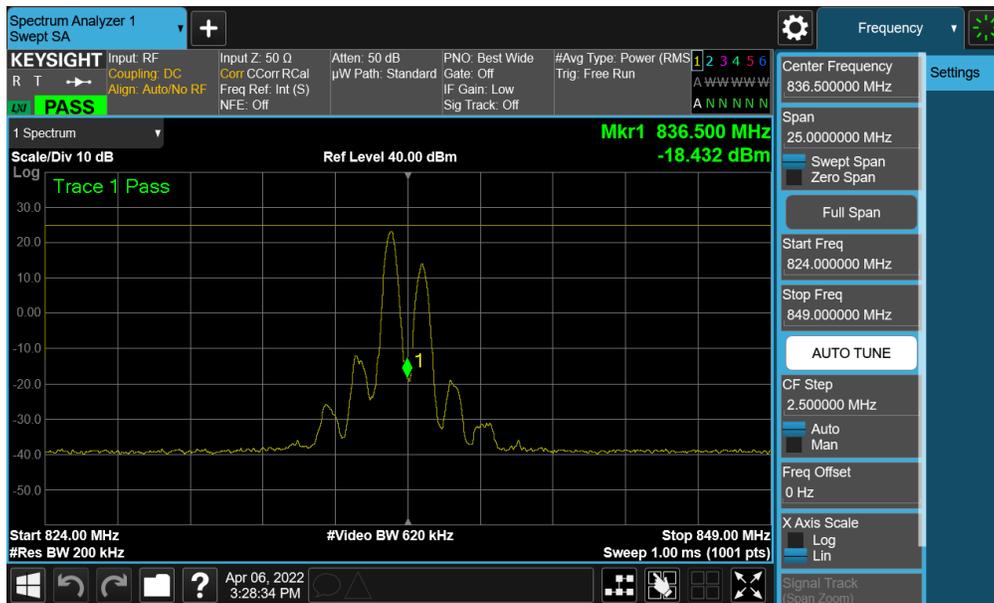


Plot 7-87. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

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Plot 7-88. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Mid Channel)

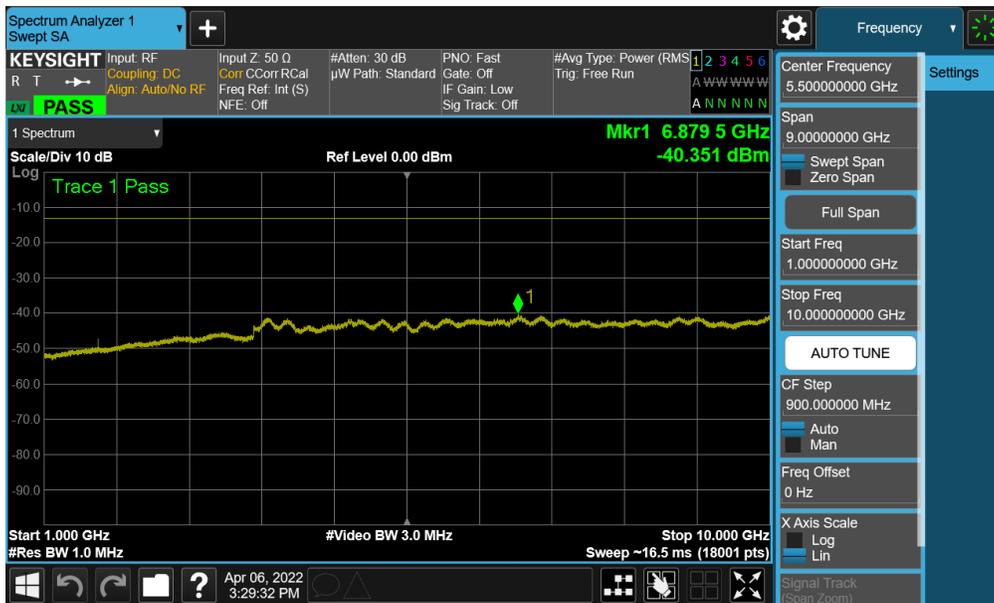


Plot 7-89. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Mid Channel)

FCC ID: A3LSMF936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-90. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Mid Channel)



Plot 7-91. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Mid Channel)

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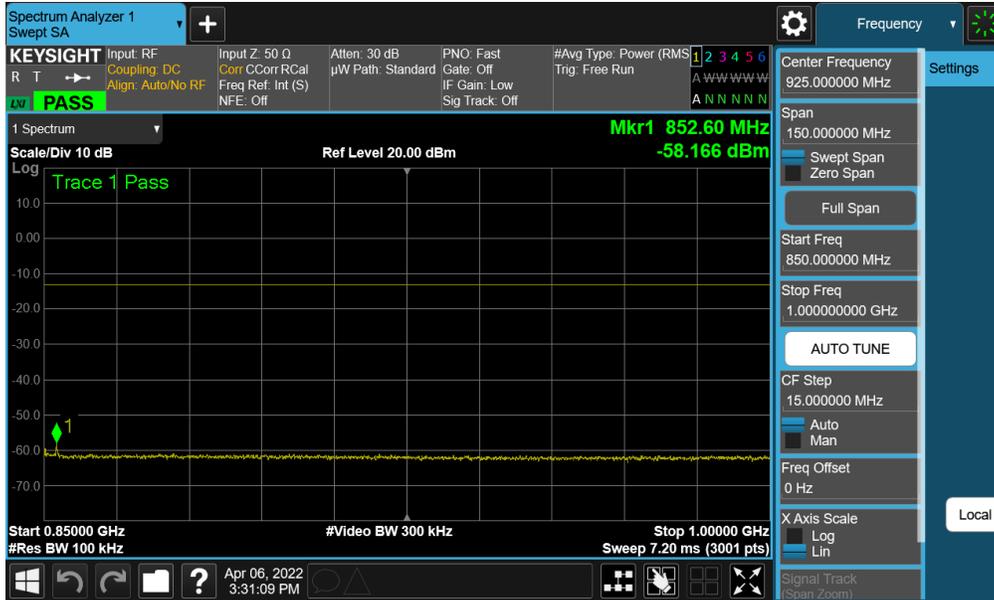


Plot 7-92. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/0 SCC 1/49 – High Channel)



Plot 7-93. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/0 SCC 1/49 – High Channel)

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Plot 7-94. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/0 SCC 1/49 – High Channel)



Plot 7-95. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/0 SCC 1/49 – High Channel)

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Plot 7-96. Lower Band Edge Plot (Band 5 – QPSK – PCC:10 MHz SCC:10 MHz – Full RB)



Plot 7-97. Upper Band Edge Plot (Band 5 – QPSK – PCC:10 MHz SCC:10 MHz – Full RB)

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EN-DC configuration

NR (SCS 15kHz)						LTE						NR	LTE	EN-DC
NR Band	NR Bandwidth [MHz]	NR Channel	NR Frequency [MHz]	Mod.	NR RB#/Offset	LTE Band	LTE Bandwidth [MHz]	LTE Channel	LTE Frequency [MHz]	Mod.	LTE RB#/Offset	Conducted Power [dBm]	Conducted Power [dBm]	Total Tx. Power [dBm]
n5	20	Mid	836.5	QPSK	100/0	B66	20	Mid	1745	QPSK	100/0	19.32	21.20	23.37
				QPSK	100/0					19.41	21.77	23.76		
				QPSK	1/53					19.27	21.31	23.42		
				QPSK	1/53					19.46	21.54	23.63		
				16Q	1/53					19.40	21.49	23.58		

Table 7-3. Conducted Powers (n5 – B66)

NR (SCS 15kHz)						LTE						NR	LTE	EN-DC
NR Band	NR Bandwidth [MHz]	NR Channel	NR Frequency [MHz]	Mod.	NR RB#/Offset	LTE Band	LTE Bandwidth [MHz]	LTE Channel	LTE Frequency [MHz]	Mod.	LTE RB#/Offset	Conducted Power [dBm]	Conducted Power [dBm]	Total Tx. Power [dBm]
n5	20	Mid	836.5	QPSK	100/0	B2	20	Mid	1880	QPSK	100/0	18.96	21.86	23.66
				QPSK	100/0					19.01	22.11	23.84		
				QPSK	1/53					18.87	21.96	23.69		
				QPSK	1/53					19.23	22.41	24.12		
				16Q	1/53					19.17	22.17	23.93		

Table 7-4. Conducted Powers (n5 – B2)

NR (SCS 15kHz)						LTE						NR	LTE	EN-DC
NR Band	NR Bandwidth [MHz]	NR Channel	NR Frequency [MHz]	Mod.	NR RB#/Offset	LTE Band	LTE Bandwidth [MHz]	LTE Channel	LTE Frequency [MHz]	Mod.	LTE RB#/Offset	Conducted Power [dBm]	Conducted Power [dBm]	Total Tx. Power [dBm]
n5	20	Mid	836.5	QPSK	100/0	B30	10	Mid	2310	QPSK	50/0	19.01	22.07	23.81
				QPSK	100/0					18.96	21.77	23.60		
				QPSK	1/53					18.98	21.89	23.68		
				QPSK	1/53					19.17	22.17	23.93		
				16Q	1/53					18.99	22.07	23.81		

Table 7-5. Conducted Powers (n5 – B30)

NR (SCS 15kHz)						LTE						NR	LTE	EN-DC
NR Band	NR Bandwidth [MHz]	NR Channel	NR Frequency [MHz]	Mod.	NR RB#/Offset	LTE Band	LTE Bandwidth [MHz]	LTE Channel	LTE Frequency [MHz]	Mod.	LTE RB#/Offset	Conducted Power [dBm]	Conducted Power [dBm]	Total Tx. Power [dBm]
n5	20	Mid	836.5	QPSK	100/0	B48	20	Mid	3625	QPSK	100/0	19.01	22.11	23.84
				QPSK	100/0					19.24	22.01	23.85		
				QPSK	1/53					19.17	22.17	23.93		
				QPSK	1/53					19.43	22.34	24.13		
				16Q	1/53					19.40	22.31	24.10		

Table 7-6. Conducted Powers (n5 – B48)

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7.6 Radiated Power (ERP)

Test Overview

Effective Radiated Power (ERP) 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.

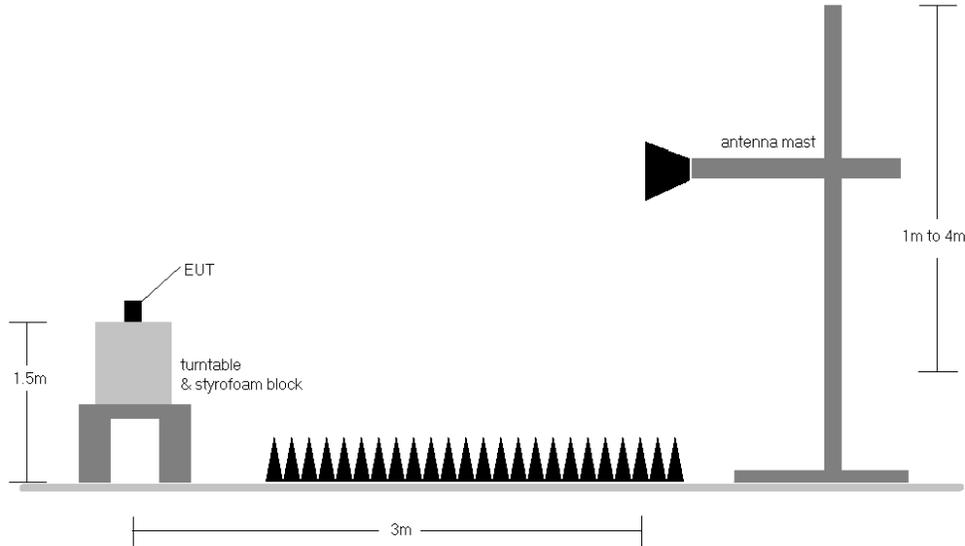


Figure 7-5. Radiated Test Setup < 1GHz

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to “1”.
- 3) 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.
- 4) This unit was tested with its standard battery.
- 5) 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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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
15MHz (Band 26 only)	QPSK	831.5	H	371	330	1.29	1 / 74	19.71	18.85	0.077	38.45	-19.60	21.00	0.126	40.61	-19.61
	QPSK	836.5	H	373	330	1.31	1 / 74	20.19	19.35	0.086	38.45	-19.10	21.50	0.141	40.61	-19.11
	QPSK	841.5	H	371	331	1.33	1 / 37	19.86	19.04	0.080	38.45	-19.41	21.19	0.132	40.61	-19.41
	16-QAM	836.5	H	373	330	1.31	1 / 74	19.51	18.67	0.074	38.45	-19.78	20.82	0.121	40.61	-19.79
10 MHz	QPSK	829.0	H	371	330	1.27	1 / 49	19.97	19.09	0.081	38.45	-19.36	21.24	0.133	40.61	-19.36
	QPSK	836.5	H	373	330	1.31	1 / 25	20.45	19.61	0.091	38.45	-18.84	21.76	0.150	40.61	-18.84
	QPSK	844.0	H	371	331	1.35	1 / 0	19.98	19.18	0.083	38.45	-19.27	21.33	0.136	40.61	-19.28
	16-QAM	836.5	H	373	330	1.31	1 / 49	19.67	18.83	0.076	38.45	-19.62	20.98	0.125	40.61	-19.63
5 MHz	QPSK	826.5	H	371	330	1.26	1 / 24	19.96	19.07	0.081	38.45	-19.38	21.22	0.132	40.61	-19.39
	QPSK	836.5	H	373	330	1.31	1 / 24	20.42	19.58	0.091	38.45	-18.87	21.73	0.149	40.61	-18.88
	QPSK	846.5	H	371	331	1.36	1 / 24	20.05	19.26	0.084	38.45	-19.19	21.41	0.138	40.61	-19.20
	16-QAM	836.5	H	373	330	1.31	1 / 24	19.80	18.96	0.079	38.45	-19.49	21.11	0.129	40.61	-19.50
3 MHz	QPSK	825.5	H	371	330	1.26	1 / 0	19.70	18.80	0.076	38.45	-19.65	20.95	0.125	40.61	-19.65
	QPSK	836.5	H	373	330	1.31	1 / 14	20.38	19.54	0.090	38.45	-18.91	21.69	0.148	40.61	-18.91
	QPSK	847.5	H	371	331	1.36	1 / 14	19.82	19.04	0.080	38.45	-19.41	21.19	0.131	40.61	-19.42
	16-QAM	836.5	H	373	330	1.31	1 / 7	19.57	18.73	0.075	38.45	-19.72	20.88	0.122	40.61	-19.73
1.4 MHz	QPSK	824.7	H	371	330	1.25	1 / 5	19.80	18.91	0.078	38.45	-19.55	21.06	0.127	40.61	-19.55
	QPSK	836.5	H	373	330	1.31	1 / 0	20.39	19.55	0.090	38.45	-18.90	21.70	0.148	40.61	-18.91
	QPSK	848.3	H	371	331	1.37	1 / 5	19.89	19.11	0.081	38.45	-19.34	21.26	0.134	40.61	-19.35
	16-QAM	836.5	H	373	330	1.31	1 / 3	19.45	18.61	0.073	38.45	-19.84	20.76	0.119	40.61	-19.85
10 MHz	QPSK (Opposite Pol.)	836.5	V	141	96	1.31	1 / 49	19.43	18.59	0.072	38.45	-19.86	20.74	0.119	40.61	-19.87
	QPSK (WCP)	836.5	H	224	318	1.31	1 / 49	19.51	18.67	0.074	38.45	-19.78	20.82	0.121	40.61	-19.79
5 MHz	QPSK (Half Open)	846.5	V	146	125	1.36	1 / 24	19.47	18.68	0.074	38.45	-19.77	20.83	0.121	40.61	-19.78

Table 7-7. ERP Data (LTE Band 26/5 – AntA + AntB) – OPEN

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
15MHz (Band 26 only)	QPSK	831.5	V	144	230	1.29	1 / 37	15.94	15.08	0.032	38.45	-23.37	17.23	0.053	40.61	-23.38
	QPSK	836.5	V	139	220	1.31	1 / 37	15.76	14.92	0.031	38.45	-23.53	17.07	0.051	40.61	-23.54
	QPSK	841.5	V	140	206	1.33	1 / 0	15.83	15.01	0.032	38.45	-23.44	17.16	0.052	40.61	-23.44
	16-QAM	841.5	V	140	206	1.33	1 / 0	15.07	14.25	0.027	38.45	-24.20	16.40	0.044	40.61	-24.20
10 MHz	QPSK	829.0	V	144	230	1.27	1 / 49	16.20	15.32	0.034	38.45	-23.13	17.47	0.056	40.61	-23.13
	QPSK	836.5	V	139	220	1.31	1 / 25	16.02	15.18	0.033	38.45	-23.27	17.33	0.054	40.61	-23.27
	QPSK	844.0	V	140	206	1.35	1 / 0	15.95	15.15	0.033	38.45	-23.30	17.30	0.054	40.61	-23.31
	16-QAM	829.0	V	144	230	1.27	1 / 49	14.93	14.05	0.025	38.45	-24.40	16.20	0.042	40.61	-24.41
5 MHz	QPSK	826.5	V	144	230	1.26	1 / 24	16.19	15.30	0.034	38.45	-23.15	17.45	0.056	40.61	-23.16
	QPSK	836.5	V	139	220	1.31	1 / 24	15.99	15.15	0.033	38.45	-23.30	17.30	0.054	40.61	-23.31
	QPSK	846.5	V	140	206	1.36	1 / 24	16.02	15.23	0.033	38.45	-23.22	17.38	0.055	40.61	-23.23
	16-QAM	826.5	V	144	230	1.26	1 / 24	14.84	13.96	0.025	38.45	-24.50	16.11	0.041	40.61	-24.50
3 MHz	QPSK	825.5	V	144	230	1.26	1 / 0	15.93	15.03	0.032	38.45	-23.42	17.18	0.052	40.61	-23.42
	QPSK	836.5	V	139	220	1.31	1 / 14	15.95	15.11	0.032	38.45	-23.34	17.26	0.053	40.61	-23.34
	QPSK	847.5	V	140	206	1.36	1 / 14	15.79	15.01	0.032	38.45	-23.44	17.16	0.052	40.61	-23.45
	16-QAM	836.5	V	139	220	1.31	1 / 7	14.99	14.15	0.026	38.45	-24.30	16.30	0.043	40.61	-24.31
1.4 MHz	QPSK	824.7	V	144	230	1.25	1 / 5	16.03	15.14	0.033	38.45	-23.32	17.29	0.054	40.61	-23.32
	QPSK	836.5	V	139	220	1.31	1 / 0	15.96	15.12	0.032	38.45	-23.33	17.27	0.053	40.61	-23.34
	QPSK	848.3	V	140	206	1.37	1 / 5	15.86	15.08	0.032	38.45	-23.37	17.23	0.053	40.61	-23.38
	16-QAM	824.7	V	144	230	1.25	1 / 3	14.72	13.82	0.024	38.45	-24.63	15.97	0.040	40.61	-24.64
10 MHz	QPSK (Opposite Pol.)	829.0	H	364	206	1.27	1 / 25	15.50	14.62	0.029	38.45	-23.83	16.77	0.048	40.61	-23.84
	QPSK (WCP)	829.0	V	147	82	1.27	1 / 49	15.07	14.19	0.026	38.45	-24.26	16.34	0.043	40.61	-24.27

Table 7-8. ERP Data (LTE Band 26/5 – AntA) – CLOSE

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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]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	834.0	H	176	352	2.22	1 / 53	19.46	19.53	0.090	38.45	-18.93	21.68	0.147	40.61	-18.93
	π/2 BPSK	836.5	H	178	354	2.28	1 / 53	18.84	18.97	0.079	38.45	-19.48	21.12	0.130	40.61	-19.48
	π/2 BPSK	839.0	H	184	6	2.32	1 / 79	19.22	19.39	0.087	38.45	-19.06	21.54	0.142	40.61	-19.07
	QPSK	834.0	H	176	352	2.22	1 / 53	19.14	19.21	0.083	38.45	-19.25	21.36	0.137	40.61	-19.25
	QPSK	836.5	H	178	354	2.28	1 / 53	19.03	19.16	0.083	38.45	-19.29	21.31	0.135	40.61	-19.29
	QPSK	839.0	H	184	6	2.32	1 / 79	19.08	19.25	0.084	38.45	-19.20	21.40	0.138	40.61	-19.21
15 MHz	16-QAM	839.0	H	184	6	2.32	1 / 79	18.21	18.38	0.069	38.45	-20.07	20.53	0.113	40.61	-20.08
	π/2 BPSK	831.5	H	176	352	2.10	1 / 58	19.53	19.48	0.089	38.45	-18.97	21.63	0.146	40.61	-18.98
	π/2 BPSK	836.5	H	178	354	2.28	1 / 39	19.75	18.89	0.077	38.45	-19.57	21.04	0.127	40.61	-19.57
	π/2 BPSK	841.5	H	184	6	2.32	1 / 20	19.34	19.51	0.089	38.45	-18.94	21.66	0.147	40.61	-18.95
	QPSK	831.5	H	176	352	2.10	1 / 58	19.20	19.16	0.082	38.45	-19.30	21.31	0.135	40.61	-19.30
	QPSK	836.5	H	178	354	2.28	1 / 39	19.06	19.20	0.083	38.45	-19.26	21.35	0.136	40.61	-19.26
10 MHz	QPSK	841.5	H	184	6	2.32	1 / 39	19.04	19.20	0.083	38.45	-19.25	21.35	0.137	40.61	-19.25
	16-QAM	841.5	H	184	6	2.32	1 / 20	18.31	18.48	0.070	38.45	-19.98	20.63	0.115	40.61	-19.98
	π/2 BPSK	829.0	H	176	352	1.96	1 / 38	19.62	19.43	0.088	38.45	-19.02	21.58	0.144	40.61	-19.03
	π/2 BPSK	836.5	H	178	354	2.28	1 / 26	18.68	18.81	0.076	38.45	-19.64	20.96	0.125	40.61	-19.65
	π/2 BPSK	844.0	H	184	6	2.30	1 / 13	19.17	19.32	0.086	38.45	-19.13	21.47	0.140	40.61	-19.13
	QPSK	829.0	H	176	352	1.96	1 / 26	19.08	18.88	0.077	38.45	-19.57	21.03	0.127	40.61	-19.57
5 MHz	QPSK	836.5	H	178	354	2.28	1 / 26	18.92	19.06	0.080	38.45	-19.40	21.21	0.132	40.61	-19.40
	QPSK	844.0	H	184	6	2.30	1 / 13	19.02	19.17	0.083	38.45	-19.28	21.32	0.136	40.61	-19.29
	16-QAM	836.5	H	178	354	2.28	1 / 26	18.26	18.39	0.069	38.45	-20.06	20.54	0.113	40.61	-20.06
	π/2 BPSK	829.0	H	176	352	1.81	1 / 18	19.64	19.30	0.085	38.45	-19.16	21.45	0.139	40.61	-19.16
	π/2 BPSK	836.5	H	178	354	2.28	1 / 18	18.72	18.86	0.077	38.45	-19.60	21.01	0.126	40.61	-19.60
	π/2 BPSK	844.0	H	184	6	2.29	1 / 6	19.10	19.24	0.084	38.45	-19.21	21.39	0.138	40.61	-19.22
20 MHz	QPSK	829.0	H	176	352	1.81	1 / 18	19.25	18.91	0.078	38.45	-19.55	21.06	0.128	40.61	-19.55
	QPSK	836.5	H	178	354	2.28	1 / 18	18.91	19.04	0.080	38.45	-19.41	21.19	0.132	40.61	-19.41
	QPSK	844.0	H	184	6	2.29	1 / 18	18.90	19.04	0.080	38.45	-19.42	21.19	0.131	40.61	-19.42
	16-QAM	829.0	H	176	352	1.81	1 / 6	18.43	18.09	0.064	38.45	-20.36	20.24	0.106	40.61	-20.37
20 MHz	QPSK (CP-OFDM)	834.0	H	176	252	2.22	1 / 53	16.44	16.51	0.045	38.45	-21.94	18.66	0.073	40.61	-21.95
	QPSK (Opposite Pol.)	834.0	V	240	101	2.22	1 / 53	16.58	16.65	0.046	38.45	-21.80	18.80	0.076	40.61	-21.81
20 MHz	QPSK (WCP)	834.0	H	177	353	2.22	1 / 53	18.78	18.85	0.077	38.45	-19.60	21.00	0.126	40.61	-19.61
	QPSK (Half Open)	834.0	H	220	6	2.22	1 / 53	18.88	18.95	0.078	38.45	-19.51	21.10	0.129	40.61	-19.51

Table 7-9. ERP Data (NR Band n5 – AntA + AntB) – OPEN

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	834.0	H	235	2.22	1 / 26	15.60	15.67	0.037	38.45	-22.79	17.82	0.060	40.61	-22.79
	π/2 BPSK	836.5	H	219	2.28	1 / 26	15.63	15.76	0.038	38.45	-22.69	17.91	0.062	40.61	-22.69
	π/2 BPSK	839.0	H	220	2.32	1 / 26	15.46	15.63	0.037	38.45	-22.82	17.78	0.060	40.61	-22.83
	QPSK	834.0	H	235	2.22	1 / 26	15.72	15.79	0.038	38.45	-22.67	17.94	0.062	40.61	-22.67
	QPSK	836.5	H	219	2.28	1 / 26	15.65	15.78	0.038	38.45	-22.67	17.93	0.062	40.61	-22.67
	QPSK	839.0	H	220	2.32	1 / 26	15.34	15.51	0.036	38.45	-22.94	17.66	0.058	40.61	-22.95
15 MHz	16-QAM	834.0	H	235	2.22	1 / 26	14.49	14.56	0.029	38.45	-23.90	16.71	0.047	40.61	-23.90
	π/2 BPSK	831.5	H	235	2.10	1 / 58	15.67	15.62	0.036	38.45	-22.83	17.77	0.060	40.61	-22.84
	π/2 BPSK	836.5	H	219	2.28	1 / 39	15.54	15.68	0.037	38.45	-22.78	17.83	0.061	40.61	-22.78
	π/2 BPSK	841.5	H	220	2.32	1 / 20	15.58	15.75	0.038	38.45	-22.70	17.90	0.062	40.61	-22.71
	QPSK	831.5	H	235	2.10	1 / 58	15.78	15.74	0.037	38.45	-22.72	17.89	0.061	40.61	-22.72
	QPSK	836.5	H	219	2.28	1 / 39	15.68	15.82	0.038	38.45	-22.64	17.97	0.063	40.61	-22.64
10 MHz	QPSK	841.5	H	220	2.32	1 / 39	15.30	15.46	0.035	38.45	-22.99	17.61	0.058	40.61	-22.99
	16-QAM	836.5	H	219	2.28	1 / 20	14.41	14.54	0.028	38.45	-23.91	16.69	0.047	40.61	-23.91
	π/2 BPSK	829.0	H	235	1.96	1 / 38	15.76	15.57	0.036	38.45	-22.88	17.72	0.059	40.61	-22.89
	π/2 BPSK	836.5	H	219	2.28	1 / 26	15.47	15.60	0.036	38.45	-22.85	17.75	0.060	40.61	-22.86
	π/2 BPSK	844.0	H	220	2.30	1 / 13	15.41	15.56	0.036	38.45	-22.89	17.71	0.059	40.61	-22.89
	QPSK	829.0	H	235	1.96	1 / 26	15.66	15.46	0.035	38.45	-22.99	17.61	0.058	40.61	-22.99
5 MHz	QPSK	836.5	H	219	2.28	1 / 26	15.54	15.68	0.037	38.45	-22.78	17.83	0.061	40.61	-22.78
	QPSK	844.0	H	220	2.30	1 / 13	15.28	15.43	0.035	38.45	-23.02	17.58	0.057	40.61	-23.03
	16-QAM	836.5	H	219	2.28	1 / 26	14.33	14.46	0.028	38.45	-23.99	16.61	0.046	40.61	-23.99
	π/2 BPSK	829.0	H	235	1.81	1 / 18	15.78	15.44	0.035	38.45	-23.02	17.59	0.057	40.61	-23.02
	π/2 BPSK	836.5	H	219	2.28	1 / 18	15.51	15.65	0.037	38.45	-22.81	17.80	0.060	40.61	-22.81
	π/2 BPSK	844.0	H	220	2.29	1 / 6	15.34	15.48	0.035	38.45	-22.97	17.63	0.058	40.61	-22.98
15 MHz	QPSK	829.0	H	235	1.81	1 / 18	15.83	15.49	0.035	38.45	-22.97	17.64	0.058	40.61	-22.97
	QPSK	836.5	H	219	2.28	1 / 18	15.53	15.66	0.037	38.45	-22.79	17.81	0.060	40.61	-22.79
	QPSK	844.0	H	220	2.29	1 / 18	15.16	15.30	0.034	38.45	-23.16	17.45	0.056	40.61	-23.16
	16-QAM	836.5	H	219	2.28	1 / 6	14.48	14.61	0.029	38.45	-23.84	16.76	0.047	40.61	-23.84
15 MHz	QPSK (CP-OFDM)	836.5	H	219	2.28	1 / 39	12.75	12.88	0.019	38.45	-25.57	15.03	0.032	40.61	-25.58
	QPSK (Opposite Pol.)	836.5	V	97	2.28	1 / 39	13.02	13.15	0.021	38.45	-25.30	15.30	0.034	40.61	-25.31
	QPSK (WCP)	836.5	H	233	2.28	1 / 20	15.40	15.53	0.036	38.45	-22.92	17.68	0.059	40.61	-22.93

Table 7-10. ERP Data (NR Band n5 – AntA) – CLOSE

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Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.20	GPRS850	H	208	2	26.90	1.69	26.44	0.440	38.45	-12.01	28.59	0.722	40.61	-12.02
836.60	GPRS850	H	214	31	27.14	2.29	27.28	0.534	38.45	-11.17	29.43	0.876	40.61	-11.18
848.80	GPRS850	H	201	6	26.80	2.28	26.93	0.493	38.45	-11.52	29.08	0.809	40.61	-11.53
836.60	GPRS850 (Opposite Pol.)	V	115	273	26.71	2.29	26.85	0.484	38.45	-11.60	29.00	0.794	40.61	-11.61
836.60	EDGE850	H	214	31	21.25	2.29	21.39	0.138	38.45	-17.06	23.54	0.226	40.61	-17.07
836.60	GPRS850 (WCP)	H	210	27	25.73	2.29	25.87	0.386	38.45	-12.58	28.02	0.633	40.61	-12.59
848.80	GPRS850 (Half Open)	H	241	88	26.60	2.28	26.73	0.471	38.45	-11.72	28.88	0.773	40.61	-11.73

Table 7-11. ERP Data (GPRS Cell – AntA + AntB) – OPEN

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.20	GPRS850	H	228	21.41	1.69	20.95	0.124	38.45	-17.50	23.10	0.204	40.61	-17.51
836.60	GPRS850	H	207	21.71	2.29	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
848.80	GPRS850	H	206	20.53	2.28	20.66	0.116	38.45	-17.79	22.81	0.191	40.61	-17.80
836.60	GPRS850 (Opposite Pol.)	V	101	19.45	2.29	19.59	0.091	38.45	-18.86	21.74	0.149	40.61	-18.87
836.60	EDGE850	H	216	15.63	2.29	15.77	0.038	38.45	-22.68	17.92	0.062	40.61	-22.69
836.60	GPRS850 (WCP)	H	231	20.91	2.29	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41

Table 7-12. ERP Data (GPRS Cell – AntA) – CLOSE

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	H	183	6	19.10	1.80	18.75	0.075	38.45	-19.70	20.90	0.123	40.61	-19.71
836.60	WCDMA850	H	180	355	19.28	2.29	19.42	0.087	38.45	-19.03	21.57	0.143	40.61	-19.04
846.60	WCDMA850	H	182	351	19.03	2.29	19.17	0.083	38.45	-19.29	21.32	0.135	40.61	-19.29
836.60	WCDMA850 (Opposite Pol.)	V	84	270	16.72	2.29	16.86	0.048	38.45	-21.59	19.01	0.080	40.61	-21.60
836.60	WCDMA850 (WCP)	H	188	351	18.30	2.29	18.44	0.070	38.45	-20.01	20.59	0.114	40.61	-20.02
836.60	WCDMA850 (Half Open)	H	195	0	17.91	2.29	18.05	0.064	38.45	-20.40	20.20	0.105	40.61	-20.41

Table 7-13. ERP Data (WCDMA Cell – AntA + AntB) – OPEN

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	H	196	14.31	1.80	13.96	0.025	38.45	-24.49	16.11	0.041	40.61	-24.50
836.60	WCDMA850	H	195	14.64	2.29	14.78	0.030	38.45	-23.67	16.93	0.049	40.61	-23.68
846.60	WCDMA850	H	212	13.65	2.29	13.79	0.024	38.45	-24.67	15.94	0.039	40.61	-24.67
836.60	WCDMA850 (Opposite Pol.)	V	92	13.90	2.29	14.04	0.025	38.45	-24.41	16.19	0.042	40.61	-24.42
836.60	WCDMA850 (WCP)	H	197	13.90	2.29	14.04	0.025	38.45	-24.41	16.19	0.042	40.61	-24.42

Table 7-14. ERP Data (WCDMA Cell – AntA) – CLOSE

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7.7 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

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Test Setup

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

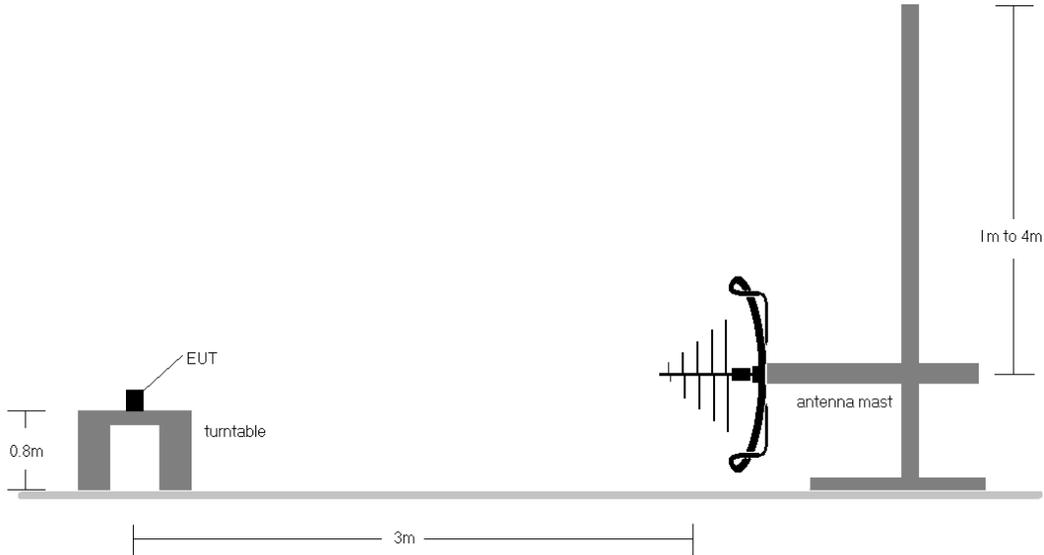


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

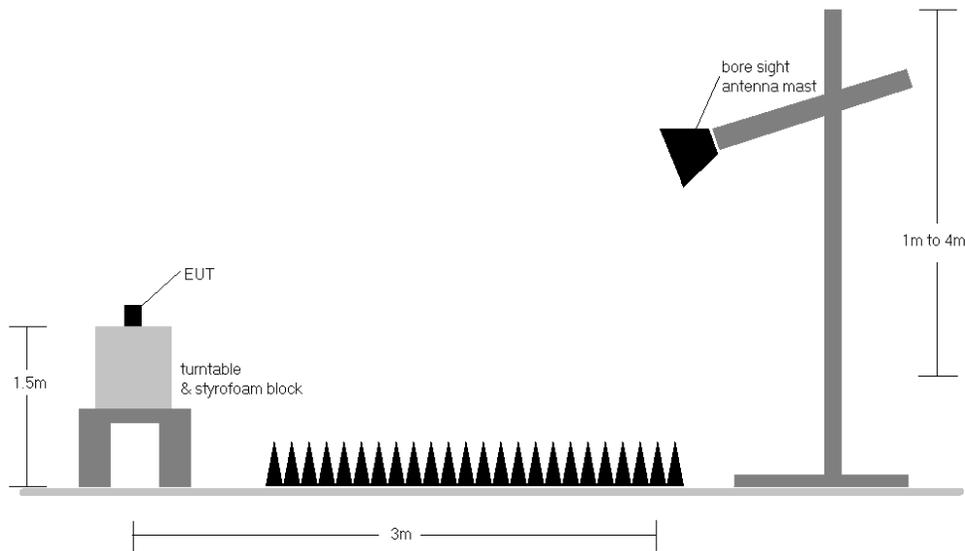


Figure 7-7. Test Instrument & Measurement Setup > 1GHz

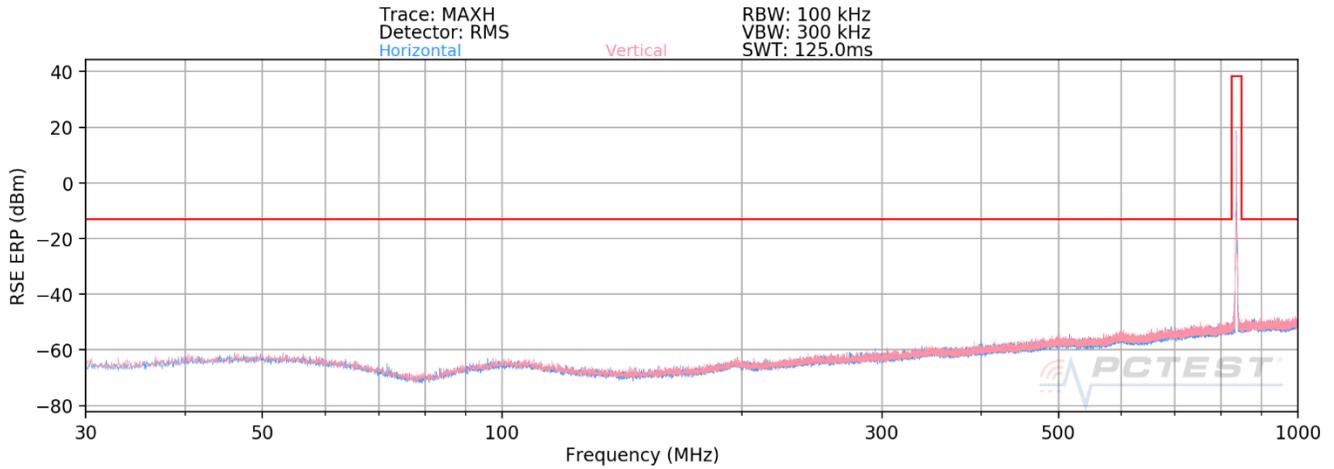
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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) 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.
- 5) This unit was tested with its standard battery.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) 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.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 10) 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.
- 11) 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 emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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LTE Band 26/5 AntA + AntB

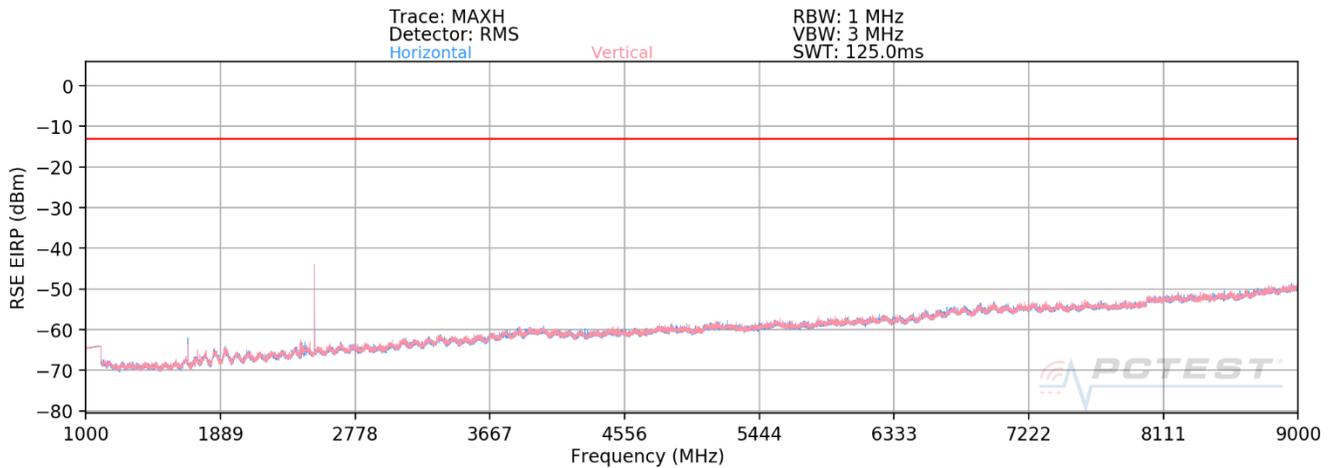


Plot 7-98. Radiated Spurious Plot Below 1GHz (LTE Band 26/5) – OPEN

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 49

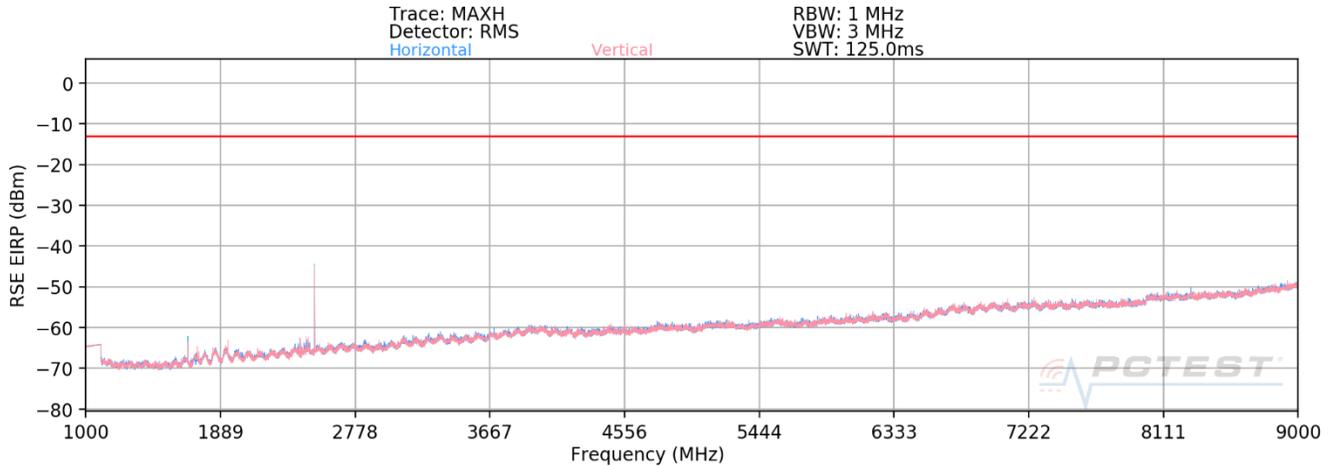
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
851.21	H	-	-	-87.11	24.48	44.37	-50.89	-13.00	-37.89

Table 7-15. Radiated Spurious Data (LTE Band 26/5) – OPEN



Plot 7-99. Radiated Spurious Plot Above 1GHz (LTE Band 26/5) – OPEN

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Plot 7-100. Radiated Spurious Plot Above 1GHz (LTE Band 26/5) – HALF OPEN

Bandwidth (MHz):	10
Frequency (MHz):	829
RB / Offset:	1 / 49

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]
1658.00	V	101	146	-71.92	-6.75	28.33	-66.93	-13.00	-53.93
2487.00	V	123	116	-56.35	-3.86	46.79	-48.46	-13.00	-35.46
3316.00	V	-	-	-77.18	-0.23	29.59	-65.67	-13.00	-52.67
4145.00	V	-	-	-77.72	1.47	30.75	-64.51	-13.00	-51.51
4974.00	V	-	-	-78.04	2.01	30.97	-64.29	-13.00	-51.29

Table 7-16. Radiated Spurious Data (LTE Band 26/5 – Low Channel) – OPEN

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 49

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]
1673.00	V	102	145	-71.85	-6.96	28.19	-67.07	-13.00	-54.07
2509.50	V	132	115	-55.69	-4.05	47.26	-48.00	-13.00	-35.00
3346.00	V	-	-	-76.58	-0.44	29.98	-65.28	-13.00	-52.28
4182.50	V	-	-	-77.11	1.09	30.98	-64.28	-13.00	-51.28
5019.00	V	-	-	-77.93	1.95	31.02	-64.23	-13.00	-51.23

Table 7-17. Radiated Spurious Data (LTE Band 26/5 – Mid Channel) – OPEN

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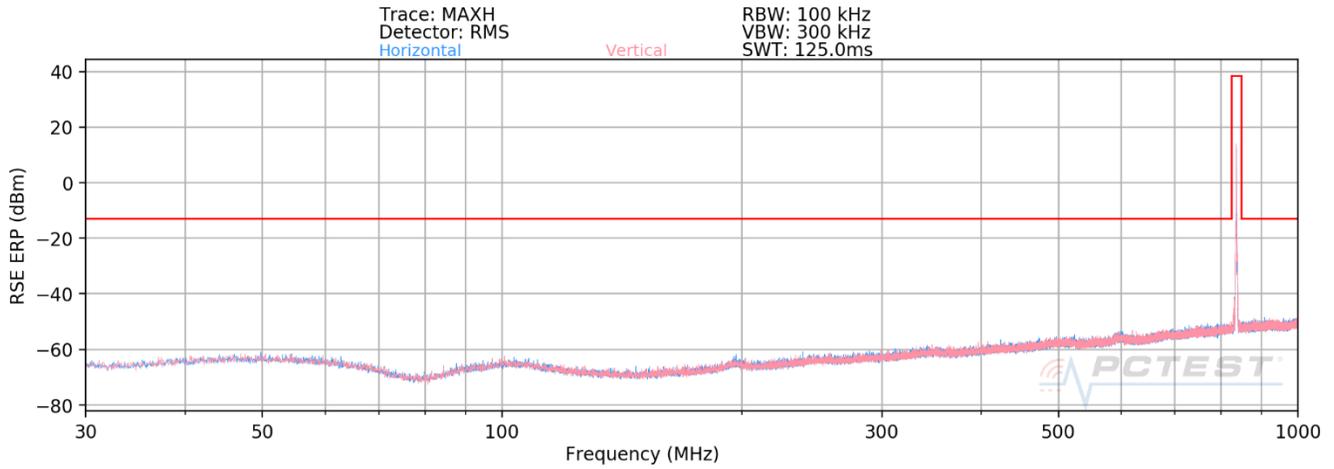
Bandwidth (MHz):	10
Frequency (MHz):	844
RB / Offset:	1 / 49

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]
1688.00	V	100	106	-74.65	-7.31	25.04	-70.22	-13.00	-57.22
2532.00	V	107	100	-52.85	-4.02	50.13	-45.13	-13.00	-32.13
3376.00	V	-	-	-77.26	-0.51	29.23	-66.03	-13.00	-53.03
4220.00	V	-	-	-77.39	1.06	30.67	-64.59	-13.00	-51.59
5064.00	V	-	-	-77.68	2.23	31.55	-63.71	-13.00	-50.71

Table 7-18. Radiated Spurious Data (LTE Band 26/5 – High Channel) – OPEN

FCC ID: A3LSMF936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 26/5 AntA

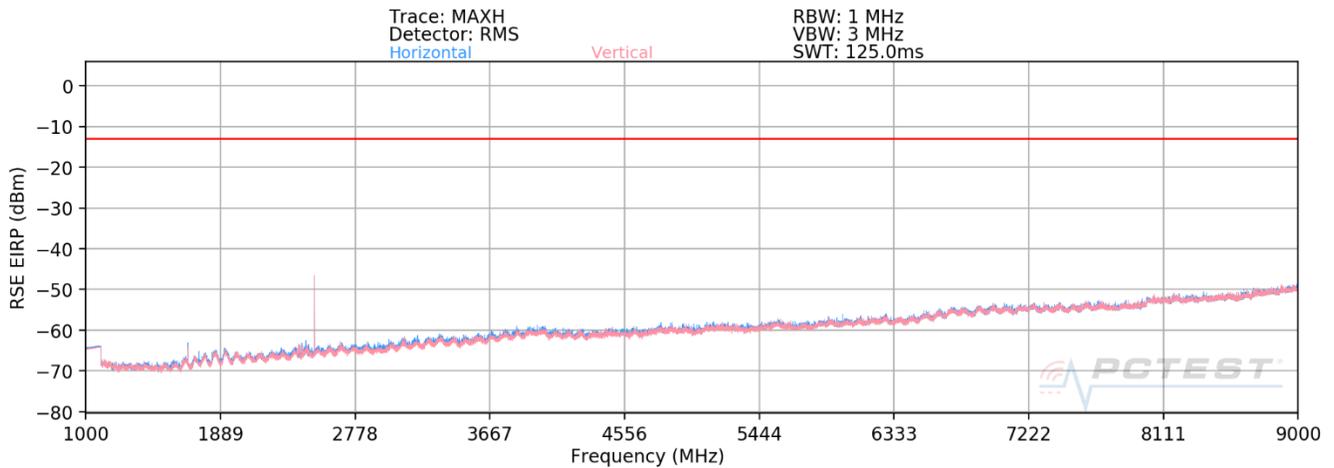


Plot 7-101. Radiated Spurious Plot Below 1GHz (LTE Band 26/5) – CLOSE

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 49

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]
850.17	V	-	-	-93.01	24.43	38.42	-56.83	-13.00	-43.83

Table 7-19. Radiated Spurious Data (LTE Band 26/5) – CLOSE



Plot 7-102. Radiated Spurious Plot Above 1GHz (LTE Band 26/5) – CLOSE

FCC ID: A3LSMF936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	10
Frequency (MHz):	829
RB / Offset:	1 / 49

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]
1658.00	H	148	232	-72.25	-6.75	28.00	-67.26	-13.00	-54.26
2487.00	H	124	260	-55.94	-3.86	47.20	-48.05	-13.00	-35.05
3316.00	H	-	-	-77.27	-0.23	29.50	-65.76	-13.00	-52.76
4145.00	H	-	-	-78.29	1.47	30.18	-65.08	-13.00	-52.08
4974.00	H	-	-	-78.02	2.01	30.99	-64.27	-13.00	-51.27

Table 7-20. Radiated Spurious Data (LTE Band 26/5 – Low Channel) – CLOSE

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 49

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]
1673.00	H	101	231	-71.85	-6.96	28.19	-67.07	-13.00	-54.07
2509.50	H	130	260	-55.01	-4.05	47.94	-47.32	-13.00	-34.32
3346.00	H	-	-	-76.86	-0.44	29.70	-65.56	-13.00	-52.56
4182.50	H	-	-	-77.35	1.09	30.74	-64.52	-13.00	-51.52
5019.00	H	-	-	-78.09	1.95	30.86	-64.39	-13.00	-51.39

Table 7-21. Radiated Spurious Data (LTE Band 26/5 – Mid Channel) – CLOSE

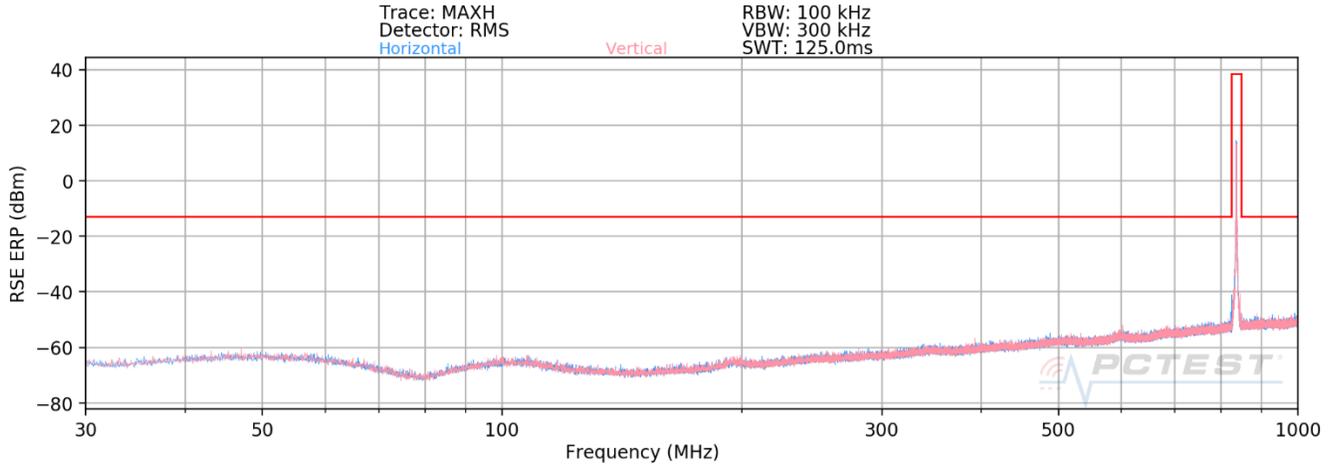
Bandwidth (MHz):	10
Frequency (MHz):	844
RB / Offset:	1 / 49

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]
1688.00	H	106	228	-72.49	-7.31	27.20	-68.06	-13.00	-55.06
2532.00	H	100	255	-55.55	-4.02	47.43	-47.83	-13.00	-34.83
3376.00	H	-	-	-77.41	-0.51	29.08	-66.18	-13.00	-53.18
4220.00	H	-	-	-77.44	1.06	30.62	-64.64	-13.00	-51.64
5064.00	H	-	-	-77.78	2.23	31.45	-63.81	-13.00	-50.81

Table 7-22. Radiated Spurious Data (LTE Band 26/5 – High Channel) – CLOSE

FCC ID: A3LSMF936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA LTE Band 5

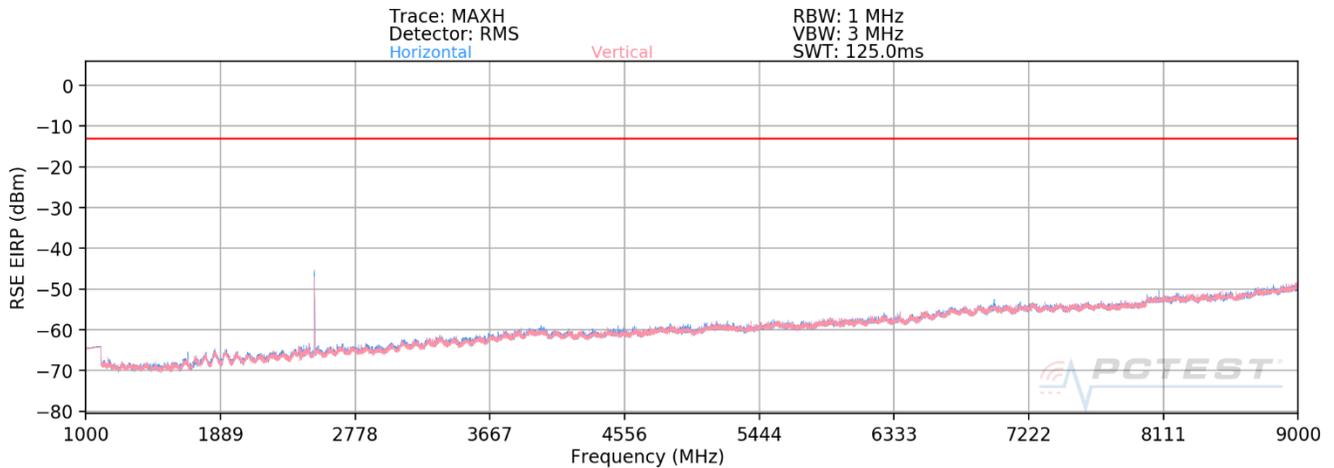


Plot 7-103. Radiated Spurious Plot Below 1GHz (ULCA LTE Band 5) – OPEN

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	831.5
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	841.4
SCC RB / Offset:	1 / 0

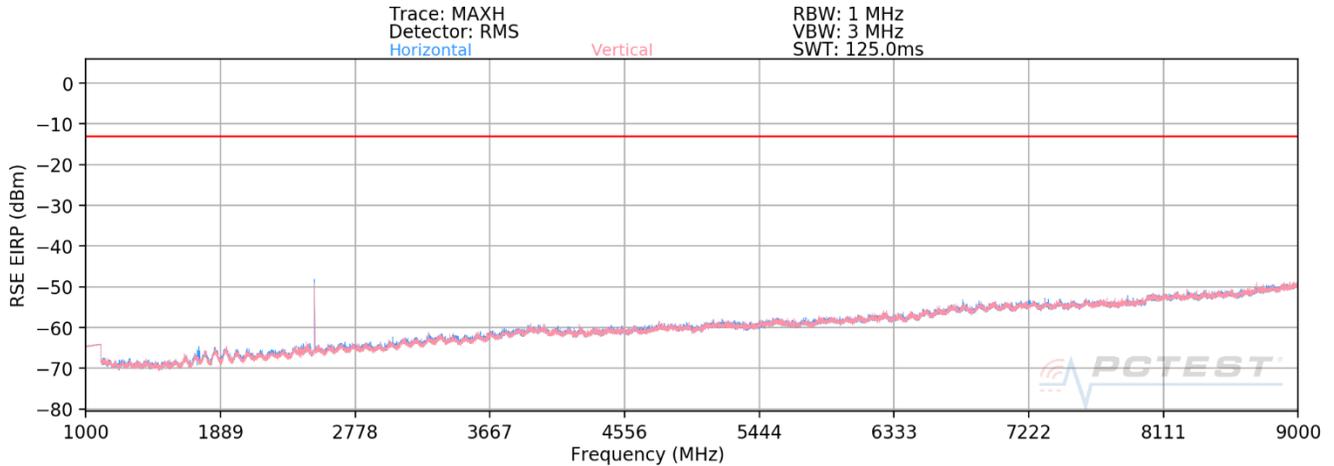
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
859.23	H	-	-	-97.84	24.73	33.89	-61.37	-13.00	-48.37

Table 7-23. Radiated Spurious Data (ULCA LTE Band 5) – OPEN



Plot 7-104. Radiated Spurious Plot Above 1GHz (ULCA LTE Band 5) – OPEN

FCC ID: A3LSMF936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-105. Radiated Spurious Plot Above 1GHz (ULCA LTE Band 5) – HALF OPEN

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	829.0
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	838.9
SCC RB / Offset:	1 / 0

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]
1658.00	V	106	79	-74.21	-6.88	25.91	-69.35	-13.00	-56.35
2487.00	V	135	105	-52.25	-3.82	50.93	-44.33	-13.00	-31.33
3316.00	V	-	-	-77.06	-0.18	29.76	-65.50	-13.00	-52.50
4145.00	V	-	-	-77.86	1.59	30.73	-64.52	-13.00	-51.52
4974.00	V	-	-	-78.24	1.99	30.75	-64.51	-13.00	-51.51

Table 7-24. Radiated Spurious Data (ULCA LTE Band 5 – Low Channel) – OPEN

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	831.5
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	841.4
SCC RB / Offset:	1 / 0

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]
1663.00	V	100	130	-74.16	-6.75	26.09	-69.17	-13.00	-56.17
2494.50	V	122	100	-52.45	-3.86	50.69	-44.56	-13.00	-31.56
3326.00	V	-	-	-77.20	-0.23	29.57	-65.69	-13.00	-52.69
4157.50	V	-	-	-77.44	1.47	31.03	-64.23	-13.00	-51.23
4989.00	V	-	-	-78.17	2.01	30.84	-64.42	-13.00	-51.42

Table 7-25. Radiated Spurious Data (ULCA LTE Band 5 – Mid Channel) – OPEN

FCC ID: A3LSMF936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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