

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	2748.047M	55.2	+0.0	+0.0	+0.0	+0.0	+0.0	50.5	54.0	-3.5	Vert
	Ave		+3.4	-38.5	+0.5	+0.2					
			+29.7								
^	2748.047M	62.2	+0.0	+0.0	+0.0	+0.0	+0.0	57.5	54.0	+3.5	Vert
			+3.4	-38.5	+0.5	+0.2					
			+29.7								
3	2723.857M	55.1	+0.0	+0.0	+0.0	+0.0	+0.0	50.3	54.0	-3.7	Vert
	Ave		+3.4	-38.5	+0.5	+0.2					
			+29.6								
^	2723.857M	62.1	+0.0	+0.0	+0.0	+0.0	+0.0	57.3	54.0	+3.3	Vert
			+3.4	-38.5	+0.5	+0.2					
			+29.6								
5	109.173M	20.9	+0.0	+1.8	+5.9	+10.6	+0.0	39.2	43.5	-4.3	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
6	111.123M	20.0	+0.0	+1.9	+5.9	+10.7	+0.0	38.5	43.5	-5.0	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
7	7263.477M	43.0	+0.0	+0.0	+0.0	+0.0	+0.0	48.9	54.0	-5.1	Vert
			+6.1	-37.2	+0.8	+0.2					
			+36.0								
8	7391.383M	42.5	+0.0	+0.0	+0.0	+0.0	+0.0	48.6	54.0	-5.4	Vert
			+6.1	-37.3	+0.8	+0.2					
			+36.3								
9	2771.353M	52.7	+0.0	+0.0	+0.0	+0.0	+0.0	48.1	54.0	-5.9	Vert
	Ave		+3.5	-38.5	+0.5	+0.2					
			+29.7								
^	2771.353M	59.7	+0.0	+0.0	+0.0	+0.0	+0.0	55.1	54.0	+1.1	Vert
			+3.5	-38.5	+0.5	+0.2					
			+29.7								
11	7328.590M	41.8	+0.0	+0.0	+0.0	+0.0	+0.0	47.8	54.0	-6.2	Vert
			+6.1	-37.3	+0.8	+0.2					
			+36.2								
12	113.423M	18.2	+0.0	+1.9	+5.9	+10.8	+0.0	36.8	43.5	-6.7	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
13	2747.727M	51.1	+0.0	+0.0	+0.0	+0.0	+0.0	46.4	54.0	-7.6	Horiz
			+3.4	-38.5	+0.5	+0.2					
			+29.7								
14	2771.687M	50.9	+0.0	+0.0	+0.0	+0.0	+0.0	46.3	54.0	-7.7	Horiz
			+3.5	-38.5	+0.5	+0.2					
			+29.7								
15	2723.950M	50.9	+0.0	+0.0	+0.0	+0.0	+0.0	46.1	54.0	-7.9	Horiz
			+3.4	-38.5	+0.5	+0.2					
			+29.6								

16	4539.690M	45.3	+0.0 +4.5 +32.6	+0.0 -37.4 +0.7	+0.0 +0.0 +0.2	+0.0 +0.0 +0.0	+0.0	45.9	54.0	-8.1	Vert
17	278.220M	15.9	+0.0 +0.0 +0.0	+3.1 +0.0 +0.0	+5.9 +0.0 +0.0	+12.9 +0.0 +0.0	+0.0	37.8	46.0	-8.2	Vert
18	4619.720M	45.0	+0.0 +4.5 +32.7	+0.0 -37.4 +0.7	+0.0 +0.0 +0.2	+0.0 +0.0 +0.0	+0.0	45.7	54.0	-8.3	Vert
19	4579.967M	44.0	+0.0 +4.5 +32.6	+0.0 -37.4 +0.7	+0.0 +0.0 +0.2	+0.0 +0.0 +0.0	+0.0	44.6	54.0	-9.4	Vert
20	270.000M	14.6	+0.0 +0.0 +0.0	+3.0 +0.0 +0.0	+5.9 +0.0 +0.0	+12.7 +0.0 +0.0	+0.0	36.2	46.0	-9.8	Horiz
21	75.423M	20.9	+0.0 +0.0 +0.0	+1.6 +0.0 +0.0	+5.9 +0.0 +0.0	+7.0 +0.0 +0.0	+0.0	35.4	105.5	-70.1	Vert
22	60.323M	20.7	+0.0 +0.0 +0.0	+1.4 +0.0 +0.0	+5.9 +0.0 +0.0	+6.2 +0.0 +0.0	+0.0	34.2	105.5	-71.3	Vert
23	214.323M	15.0	+0.0 +0.0 +0.0	+2.7 +0.0 +0.0	+5.9 +0.0 +0.0	+10.0 +0.0 +0.0	+0.0	33.6	105.5	-71.9	Vert
24	61.023M	19.3	+0.0 +0.0 +0.0	+1.4 +0.0 +0.0	+5.9 +0.0 +0.0	+6.2 +0.0 +0.0	+0.0	32.8	105.5	-72.7	Vert
25	195.000M	13.4	+0.0 +0.0 +0.0	+2.6 +0.0 +0.0	+5.9 +0.0 +0.0	+8.9 +0.0 +0.0	+0.0	30.8	105.5	-74.7	Horiz
26	183.000M	12.8	+0.0 +0.0 +0.0	+2.4 +0.0 +0.0	+5.9 +0.0 +0.0	+9.1 +0.0 +0.0	+0.0	30.2	105.5	-75.3	Horiz

Test Location: CKC Laboratories • 100 North Olinda Place • Brea CA 92823 • 714 993-6112
 Customer: **Itron, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **103955** Date: 6/25/2020
 Test Type: **Maximized Emissions** Time: 09:50:27
 Tested By: Don Nguyen Sequence#: 5
 Software: EMITest 5.03.12

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 7			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 7			

Test Conditions / Notes:

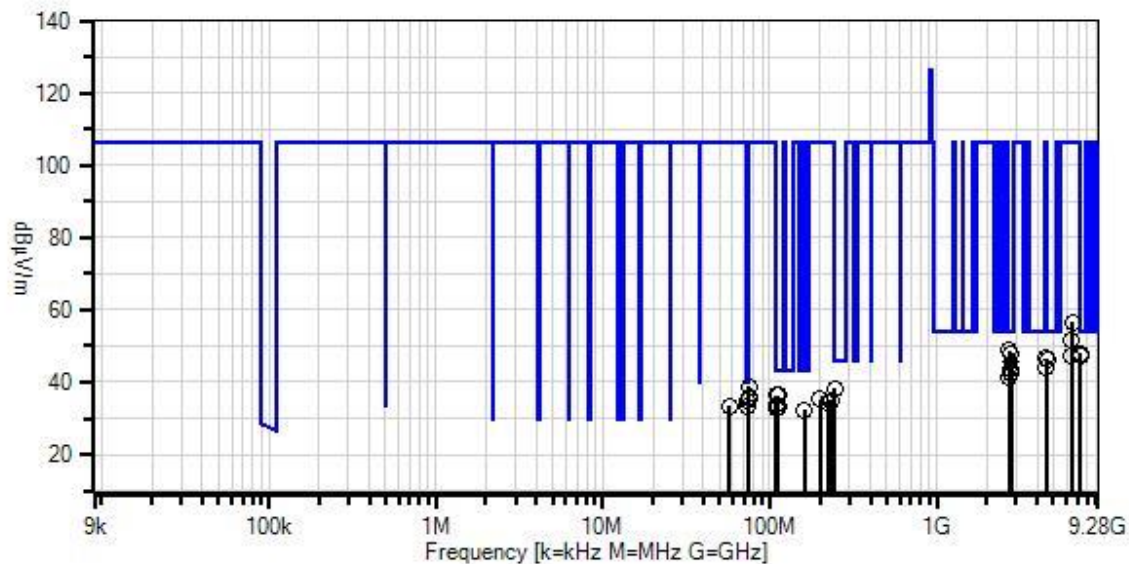
The EUT is placed on Styrofoam platform and connected to DC power supply. USB port is connected to a touchscreen tablet. The computer is sending command to the EUT using software MC3 SuperRaptor Test ver.4.0.3.5.

The EUT is set to continuously transmit.

Operating frequency: 908MHz, 916MHz, 924MHz
 Frequency of measurement: 9kHz-9.28GHz
 9kHz to 150kHz RBW=0.2kHz, VBW=0.6kHz.
 150kHz to 30MHz RBW=9kHz, VBW=27kHz.
 30-1000MHz, RBW=120kHz, VBW=360kHz
 1000-9280MHz, RBW=1MHz, VBW=3MHz
 RBW=100kHz, VBW=300kHz (-20dB limit)

Duty cycle correction is $20\text{Log}(.0445/.1)=-7.0\text{dB}$

Itron, Inc. WO#: 103955 Sequence#: 5 Date: 6/25/2020
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



— Readings
× QP Readings
▼ Ambient
○ Peak Readings
* Average Readings
Software Version: 5.03.19

Test Equipment:

ID	Asset #	Description	Model	Cal Date	Cal Due Date
	AN00314	Loop Antenna	6502	4/13/2020	4/13/2022
T1	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
T2	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
T3	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
	AN00309	Preamp	8447D	12/24/2019	12/24/2021
	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020
T4	AN02869	Spectrum Analyzer	E4440A	7/25/2019	7/25/2020
T5	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T6	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022
T7	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T8	ANP07243	Cable	32022-29094K-29094K-24TC	5/29/2020	5/29/2022
T9	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	74.500M	21.6	+1.5 +0.0 +0.0	+5.9 +0.0	+6.9 +0.0	+0.0 +0.0	+0.0	35.9	40.0	-4.1	Vert
2	74.800M	21.0	+1.5 +0.0 +0.0	+5.9 +0.0	+6.9 +0.0	+0.0 +0.0	+0.0	35.3	40.0	-4.7	Vert
3	74.350M	20.8	+1.5 +0.0 +0.0	+5.9 +0.0	+6.9 +0.0	+0.0 +0.0	+0.0	35.1	40.0	-4.9	Horiz
4	2724.000M	53.5	+0.0 -38.5 +0.2	+0.0 +29.6	+0.0 +3.4	+0.0 +0.5	+0.0	48.7	54.0	-5.3	Vert
5	2772.000M	52.6	+0.0 -38.5 +0.2	+0.0 +29.7	+0.0 +3.5	+0.0 +0.5	+0.0	48.0	54.0	-6.0	Vert
6	7264.000M	42.1	+0.0 -37.2 +0.2	+0.0 +36.0	+0.0 +6.1	+0.0 +0.8	+0.0	48.0	54.0	-6.0	Horiz
7	74.050M	18.8	+1.5 +0.0 +0.0	+5.9 +0.0	+6.9 +0.0	+0.0 +0.0	+0.0	33.1	40.0	-6.9	Horiz
8	7264.000M	41.1	+0.0 -37.2 +0.2	+0.0 +36.0	+0.0 +6.1	+0.0 +0.8	+0.0	47.0	54.0	-7.0	Vert
9	109.100M	18.1	+1.8 +0.0 +0.0	+5.9 +0.0	+10.6 +0.0	+0.0 +0.0	+0.0	36.4	43.5	-7.1	Vert
10	111.400M	17.8	+1.9 +0.0 +0.0	+5.9 +0.0	+10.7 +0.0	+0.0 +0.0	+0.0	36.3	43.5	-7.2	Vert
11	4540.000M	46.0	+0.0 -37.4 +0.2	+0.0 +32.6	+0.0 +4.5	+0.0 +0.7	+0.0	46.6	54.0	-7.4	Vert
12	244.800M	17.5	+2.9 +0.0 +0.0	+5.9 +0.0	+12.0 +0.0	+0.0 +0.0	+0.0	38.3	46.0	-7.7	Horiz
13	4580.000M	45.4	+0.0 -37.4 +0.2	+0.0 +32.6	+0.0 +4.5	+0.0 +0.7	+0.0	46.0	54.0	-8.0	Horiz
14	2748.000M Ave	50.2	+0.0 -38.5 +0.2	+0.0 +29.7	+0.0 +3.4	+0.0 +0.5	+0.0	45.5	54.0	-8.5	Vert
^	2748.000M	57.2	+0.0 -38.5 +0.2	+0.0 +29.7	+0.0 +3.4	+0.0 +0.5	+0.0	52.5	54.0	-1.5	Vert

16	111.200M	15.5	+1.9 +0.0 +0.0	+5.9 +0.0	+10.7 +0.0	+0.0 +0.0	+0.0	34.0	43.5	-9.5	Horiz
17	4540.000M	43.7	+0.0 -37.4 +0.2	+0.0 +32.6	+0.0 +4.5	+0.0 +0.7	+0.0	44.3	54.0	-9.7	Horiz
18	112.600M	14.8	+1.9 +0.0 +0.0	+5.9 +0.0	+10.8 +0.0	+0.0 +0.0	+0.0	33.4	43.5	-10.1	Horiz
19	2748.000M	48.1	+0.0 -38.5 +0.2	+0.0 +29.7	+0.0 +3.4	+0.0 +0.5	+0.0	43.4	54.0	-10.6	Horiz
20	109.900M	14.5	+1.9 +0.0 +0.0	+5.9 +0.0	+10.6 +0.0	+0.0 +0.0	+0.0	32.9	43.5	-10.6	Horiz
21	2772.000M	47.1	+0.0 -38.5 +0.2	+0.0 +29.7	+0.0 +3.5	+0.0 +0.5	+0.0	42.5	54.0	-11.5	Horiz
22	2724.000M	46.4	+0.0 -38.5 +0.2	+0.0 +29.6	+0.0 +3.4	+0.0 +0.5	+0.0	41.6	54.0	-12.4	Horiz
23	6468.000M	52.6	+0.0 -37.2 +0.2	+0.0 +34.4	+0.0 +5.8	+0.0 +0.8	+0.0	56.6	106.3	-49.7	Horiz
24	6412.000M	47.6	+0.0 -37.1 +0.2	+0.0 +34.4	+0.0 +5.8	+0.0 +0.8	+0.0	51.7	106.3	-54.6	Horiz
25	6412.000M	43.3	+0.0 -37.1 +0.2	+0.0 +34.4	+0.0 +5.8	+0.0 +0.8	+0.0	47.4	106.3	-58.9	Vert
26	75.400M	24.3	+1.6 +0.0 +0.0	+5.9 +0.0	+7.0 +0.0	+0.0 +0.0	+0.0	38.8	106.3	-67.5	Vert
27	75.300M	21.5	+1.6 +0.0 +0.0	+5.9 +0.0	+7.0 +0.0	+0.0 +0.0	+0.0	36.0	106.3	-70.3	Horiz
28	200.000M	18.0	+2.6 +0.0 +0.0	+5.9 +0.0	+8.9 +0.0	+0.0 +0.0	+0.0	35.4	106.3	-70.9	Horiz
29	231.100M	15.3	+2.8 +0.0 +0.0	+5.9 +0.0	+11.1 +0.0	+0.0 +0.0	+0.0	35.1	106.3	-71.2	Horiz
30	223.500M	15.4	+2.7 +0.0 +0.0	+5.9 +0.0	+10.6 +0.0	+0.0 +0.0	+0.0	34.6	106.3	-71.7	Vert
31	57.100M	19.1	+1.3 +0.0 +0.0	+5.9 +0.0	+7.0 +0.0	+0.0 +0.0	+0.0	33.3	106.3	-73.0	Vert
32	160.400M	13.6	+2.3 +0.0 +0.0	+5.9 +0.0	+10.6 +0.0	+0.0 +0.0	+0.0	32.4	106.3	-73.9	Vert

Test Location: CKC Laboratories • 100 North Olinda Place • Brea CA 92823 • 714 993-6112
 Customer: **Itron, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **103955** Date: 6/24/2020
 Test Type: **Maximized Emissions** Time: 13:43:08
 Tested By: Don Nguyen Sequence#: 4
 Software: EMITest 5.03.12

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 8			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 8			

Test Conditions / Notes:

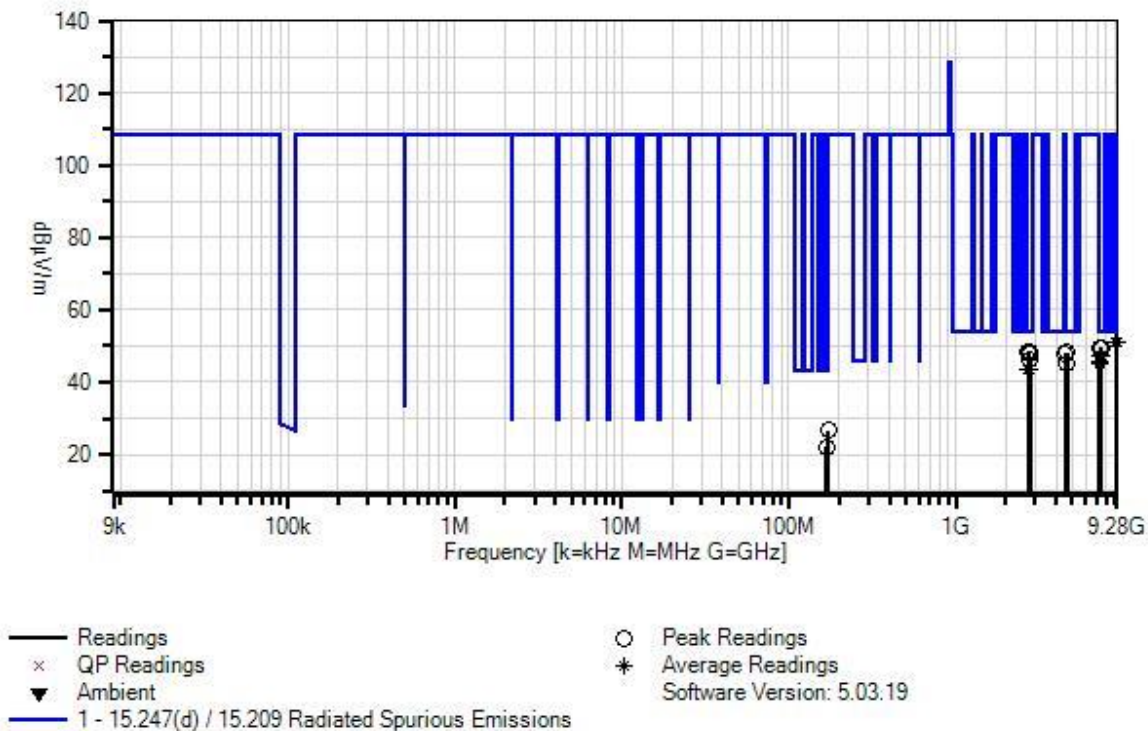
The EUT is placed on Styrofoam platform and connected to DC power supply. USB port is connected to a touchscreen tablet. The computer is sending command to the EUT using software MC3 SuperRaptor Test ver.4.0.3.5.

The EUT is set to continuously transmit.

Operating frequency: 908MHz, 916MHz, 924MHz
 Frequency of measurement: 9kHz-9.28GHz
 9kHz to 150kHz RBW=0.2kHz, VBW=0.6kHz.
 150kHz to 30MHz RBW=9kHz, VBW=27kHz.
 30-1000MHz, RBW=120kHz, VBW=360kHz
 1000-9280MHz, RBW=1MHz, VBW=3MHz
 RBW=100kHz, VBW=300kHz (-20dB limit)
 Duty cycle correction is $20\text{Log}(.0445/.1)=-7.0\text{dB}$

The worst case emission were verified with power supply on and off the table. No change in emission level was observed.

Itron, Inc. WO#: 103955 Sequence#: 4 Date: 6/24/2020
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



Test Equipment:

ID	Asset #	Description	Model	Cal Date	Cal Due Date
	AN00314	Loop Antenna	6502	4/13/2020	4/13/2022
T1	AN02869	Spectrum Analyzer	E4440A	7/25/2019	7/25/2020
T2	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
T3	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
T4	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
T5	AN00309	Preamp	8447D	12/24/2019	12/24/2021
T6	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020
T7	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T8	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T9	ANP07243	Cable	32022-29094K-29094K-24TC	5/29/2020	5/29/2022
T10	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021
T11	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6 T10	T3 T7 T11	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	9160.363M Ave	41.6	+0.0 +0.0 +0.9	+0.0 +0.0 +0.2	+0.0 +6.9 +37.9	+0.0 -36.6	+0.0	50.9	54.0	-3.1	Vert
^	9160.363M	48.6	+0.0 +0.0 +0.9	+0.0 +0.0 +0.2	+0.0 +6.9 +37.9	+0.0 -36.6	+0.0	57.9	54.0	+3.9	Vert
3	9080.453M Ave	41.7	+0.0 +0.0 +1.0	+0.0 +0.0 +0.1	+0.0 +6.8 +37.9	+0.0 -36.7	+0.0	50.8	54.0	-3.2	Vert
^	9080.453M	48.7	+0.0 +0.0 +1.0	+0.0 +0.0 +0.1	+0.0 +6.8 +37.9	+0.0 -36.7	+0.0	57.8	54.0	+3.8	Vert
5	7389.723M	43.4	+0.0 +0.0 +0.8	+0.0 +0.0 +0.2	+0.0 +6.1 +36.3	+0.0 -37.3	+0.0	49.5	54.0	-4.5	Horiz
6	7327.223M	43.2	+0.0 +0.0 +0.8	+0.0 +0.0 +0.2	+0.0 +6.1 +36.2	+0.0 -37.3	+0.0	49.2	54.0	-4.8	Horiz
7	2724.027M	53.3	+0.0 +0.0 +0.5	+0.0 +0.0 +0.2	+0.0 +3.4 +29.6	+0.0 -38.5	+0.0	48.5	54.0	-5.5	Horiz
8	4618.657M	47.5	+0.0 +0.0 +0.7	+0.0 +0.0 +0.2	+0.0 +4.5 +32.7	+0.0 -37.4	+0.0	48.2	54.0	-5.8	Vert
9	4618.983M	47.5	+0.0 +0.0 +0.7	+0.0 +0.0 +0.2	+0.0 +4.5 +32.7	+0.0 -37.4	+0.0	48.2	54.0	-5.8	Horiz
10	2747.887M	52.8	+0.0 +0.0 +0.5	+0.0 +0.0 +0.2	+0.0 +3.4 +29.7	+0.0 -38.5	+0.0	48.1	54.0	-5.9	Vert
11	4540.337M	47.2	+0.0 +0.0 +0.7	+0.0 +0.0 +0.2	+0.0 +4.5 +32.6	+0.0 -37.4	+0.0	47.8	54.0	-6.2	Horiz
12	2748.137M	52.4	+0.0 +0.0 +0.5	+0.0 +0.0 +0.2	+0.0 +3.4 +29.7	+0.0 -38.5	+0.0	47.7	54.0	-6.3	Horiz
13	4539.923M	47.1	+0.0 +0.0 +0.7	+0.0 +0.0 +0.2	+0.0 +4.5 +32.6	+0.0 -37.4	+0.0	47.7	54.0	-6.3	Vert
14	7263.410M Ave	41.5	+0.0 +0.0 +0.8	+0.0 +0.0 +0.2	+0.0 +6.1 +36.0	+0.0 -37.2	+0.0	47.4	54.0	-6.6	Vert
^	7263.410M	48.5	+0.0 +0.0 +0.8	+0.0 +0.0 +0.2	+0.0 +6.1 +36.0	+0.0 -37.2	+0.0	54.4	54.0	+0.4	Vert

16	7390.223M Ave	41.1	+0.0 +0.0 +0.8	+0.0 +0.0 +0.2	+0.0 +6.1 +36.3	+0.0 -37.3	+0.0	47.2	54.0	-6.8	Vert
^	7390.223M	48.1	+0.0 +0.0 +0.8	+0.0 +0.0 +0.2	+0.0 +6.1 +36.3	+0.0 -37.3	+0.0	54.2	54.0	+0.2	Vert
18	2771.417M	51.0	+0.0 +0.0 +0.5	+0.0 +0.0 +0.2	+0.0 +3.5 +29.7	+0.0 -38.5	+0.0	46.4	54.0	-7.6	Horiz
19	7328.097M Ave	39.4	+0.0 +0.0 +0.8	+0.0 +0.0 +0.2	+0.0 +6.1 +36.2	+0.0 -37.3	+0.0	45.4	54.0	-8.6	Vert
^	7328.097M	46.4	+0.0 +0.0 +0.8	+0.0 +0.0 +0.2	+0.0 +6.1 +36.2	+0.0 -37.3	+0.0	52.4	54.0	-1.6	Vert
21	7264.457M Ave	39.3	+0.0 +0.0 +0.8	+0.0 +0.0 +0.2	+0.0 +6.1 +36.0	+0.0 -37.2	+0.0	45.2	54.0	-8.8	Horiz
^	7264.457M	46.3	+0.0 +0.0 +0.8	+0.0 +0.0 +0.2	+0.0 +6.1 +36.0	+0.0 -37.2	+0.0	52.2	54.0	-1.8	Horiz
23	4579.493M	44.3	+0.0 +0.0 +0.7	+0.0 +0.0 +0.2	+0.0 +4.5 +32.6	+0.0 -37.4	+0.0	44.9	54.0	-9.1	Vert
24	2771.070M Ave	48.3	+0.0 +0.0 +0.5	+0.0 +0.0 +0.2	+0.0 +3.5 +29.7	+0.0 -38.5	+0.0	43.7	54.0	-10.3	Vert
^	2771.070M	55.3	+0.0 +0.0 +0.5	+0.0 +0.0 +0.2	+0.0 +3.5 +29.7	+0.0 -38.5	+0.0	50.7	54.0	-3.3	Vert
26	2723.807M Ave	48.1	+0.0 +0.0 +0.5	+0.0 +0.0 +0.2	+0.0 +3.4 +29.6	+0.0 -38.5	+0.0	43.3	54.0	-10.7	Vert
^	2723.807M	55.1	+0.0 +0.0 +0.5	+0.0 +0.0 +0.2	+0.0 +3.4 +29.6	+0.0 -38.5	+0.0	50.3	54.0	-3.7	Vert
28	171.700M	36.5	+0.0 -28.0 +0.0	+2.4 +0.2 +0.0	+5.9 +0.0 +0.0	+9.7 +0.0	+0.0	26.7	43.5	-16.8	Vert
29	168.200M	31.7	+0.0 -28.0 +0.0	+2.4 +0.2 +0.0	+5.9 +0.0 +0.0	+9.9 +0.0	+0.0	22.1	43.5	-21.4	Horiz

Test Location: CKC Laboratories • 100 North Olinda Place • Brea CA 92823 • 714 993-6112
 Customer: **Itron, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **103955** Date: 6/24/2020
 Test Type: **Maximized Emissions** Time: 17:51:57
 Tested By: Don Nguyen Sequence#: 3
 Software: EMITest 5.03.12

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 9			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 9			

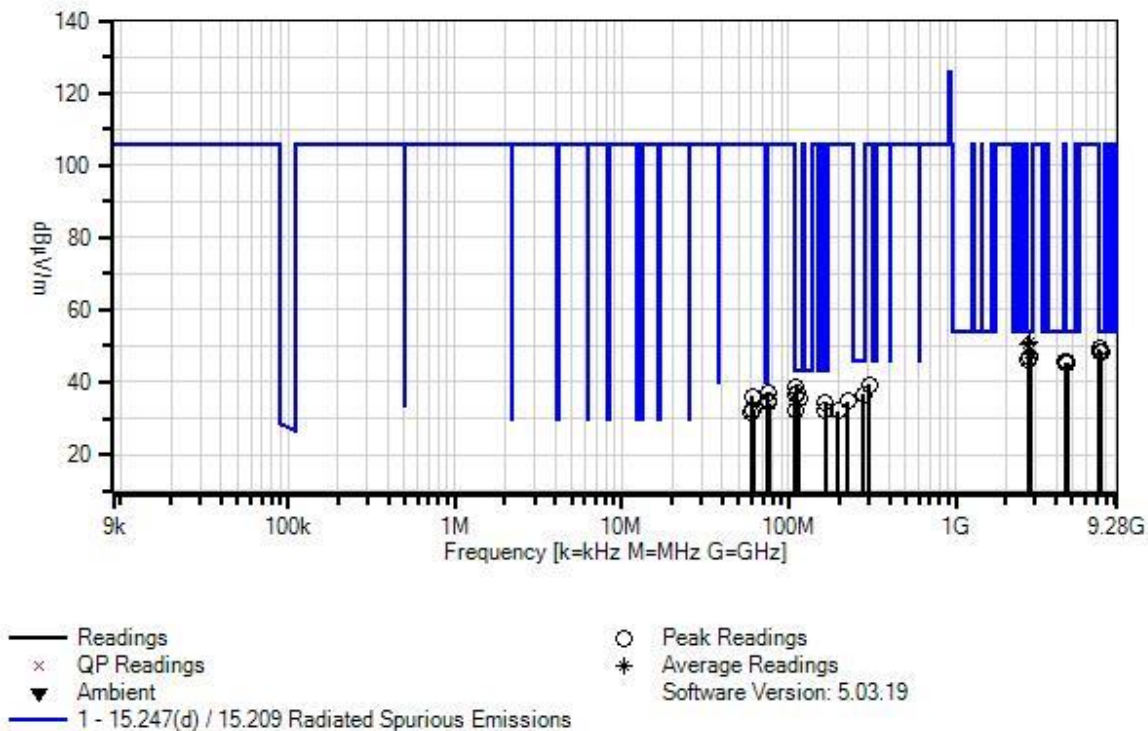
Test Conditions / Notes:

The EUT is placed on Styrofoam platform and connected to DC power supply. USB port is connected to a touchscreen tablet. The computer is sending command to the EUT using software MC3 SuperRaptor Test ver.4.0.3.5.

 The EUT is set to continuously transmit.

 Operating frequency: 908MHz, 916MHz, 924MHz
 Frequency of measurement: 9kHz-9.28GHz
 9kHz to 150kHz RBW=0.2kHz, VBW=0.6kHz.
 150kHz to 30MHz RBW=9kHz, VBW=27kHz.
 30-1000MHz, RBW=120kHz, VBW=360kHz
 1000-9280MHz, RBW=1MHz, VBW=3MHz
 RBW=100kHz, VBW=300kHz (-20dB limit)
 Duty cycle correction is $20\text{Log}(.0445/.1)=-7.0\text{dB}$

Itron, Inc. WO#: 103955 Sequence#: 3 Date: 6/24/2020
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Vert



Test Equipment:

ID	Asset #	Description	Model	Cal Date	Cal Due Date
T1	AN02672	Spectrum Analyzer	E4446A	3/13/2019	3/13/2021
T2	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
T3	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
T4	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
	AN00309	Preamp	8447D	12/24/2019	12/24/2021
	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020
T5	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T6	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T7	ANP07243	Cable	32022-29094K-29094K-24TC	5/29/2020	5/29/2022
T8	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021
T9	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	2748.217M Ave	55.8	+0.0 +3.4 +29.7	+0.0 -38.5	+0.0 +0.5	+0.0 +0.2	+0.0	51.1	54.0	-2.9	Vert
^	2748.217M	62.8	+0.0 +3.4 +29.7	+0.0 -38.5	+0.0 +0.5	+0.0 +0.2	+0.0	58.1	54.0	+4.1	Vert
3	2724.163M Ave	55.1	+0.0 +3.4 +29.6	+0.0 -38.5	+0.0 +0.5	+0.0 +0.2	+0.0	50.3	54.0	-3.7	Vert
^	2724.163M	62.1	+0.0 +3.4 +29.6	+0.0 -38.5	+0.0 +0.5	+0.0 +0.2	+0.0	57.3	54.0	+3.3	Vert
5	7263.780M	43.3	+0.0 +6.1 +36.0	+0.0 -37.2	+0.0 +0.8	+0.0 +0.2	+0.0	49.2	54.0	-4.8	Vert
6	110.458M	19.9	+0.0 +0.0 +0.0	+1.9 +0.0	+5.9 +0.0	+10.7 +0.0	+0.0	38.4	43.5	-5.1	Vert
7	7391.917M	42.4	+0.0 +6.1 +36.3	+0.0 -37.3	+0.0 +0.8	+0.0 +0.2	+0.0	48.5	54.0	-5.5	Vert
8	7327.807M	42.3	+0.0 +6.1 +36.2	+0.0 -37.3	+0.0 +0.8	+0.0 +0.2	+0.0	48.3	54.0	-5.7	Vert
9	2772.057M Ave	52.3	+0.0 +3.5 +29.7	+0.0 -38.5	+0.0 +0.5	+0.0 +0.2	+0.0	47.7	54.0	-6.3	Vert
^	2772.057M	59.3	+0.0 +3.5 +29.7	+0.0 -38.5	+0.0 +0.5	+0.0 +0.2	+0.0	54.7	54.0	+0.7	Vert
11	112.428M	18.2	+0.0 +0.0 +0.0	+1.9 +0.0	+5.9 +0.0	+10.8 +0.0	+0.0	36.8	43.5	-6.7	Vert
12	2748.257M	51.7	+0.0 +3.4 +29.7	+0.0 -38.5	+0.0 +0.5	+0.0 +0.2	+0.0	47.0	54.0	-7.0	Horiz
13	109.171M	18.1	+0.0 +0.0 +0.0	+1.8 +0.0	+5.9 +0.0	+10.6 +0.0	+0.0	36.4	43.5	-7.1	Vert
14	2771.990M	51.3	+0.0 +3.5 +29.7	+0.0 -38.5	+0.0 +0.5	+0.0 +0.2	+0.0	46.7	54.0	-7.3	Horiz
15	2724.307M	51.0	+0.0 +3.4 +29.6	+0.0 -38.5	+0.0 +0.5	+0.0 +0.2	+0.0	46.2	54.0	-7.8	Horiz

16	115.041M	16.6	+0.0 +0.0 +0.0	+1.9 +0.0	+5.9 +0.0	+10.9 +0.0	+0.0	35.3	43.5	-8.2	Vert
17	4539.180M	45.0	+0.0 +4.5 +32.6	+0.0 -37.4	+0.0 +0.7	+0.0 +0.2	+0.0	45.6	54.0	-8.4	Vert
18	4619.950M	44.8	+0.0 +4.5 +32.7	+0.0 -37.4	+0.0 +0.7	+0.0 +0.2	+0.0	45.5	54.0	-8.5	Vert
19	4580.183M	44.4	+0.0 +4.5 +32.6	+0.0 -37.4	+0.0 +0.7	+0.0 +0.2	+0.0	45.0	54.0	-9.0	Vert
20	166.500M	16.0	+0.0 +0.0 +0.0	+2.3 +0.0	+5.9 +0.0	+10.1 +0.0	+0.0	34.3	43.5	-9.2	Horiz
21	280.490M	14.6	+0.0 +0.0 +0.0	+3.1 +0.0	+5.9 +0.0	+12.9 +0.0	+0.0	36.5	46.0	-9.5	Vert
22	165.540M	14.1	+0.0 +0.0 +0.0	+2.3 +0.0	+5.9 +0.0	+10.1 +0.0	+0.0	32.4	43.5	-11.1	Vert
23	111.100M	13.6	+0.0 +0.0 +0.0	+1.9 +0.0	+5.9 +0.0	+10.7 +0.0	+0.0	32.1	43.5	-11.4	Horiz
24	304.490M	16.9	+0.0 +0.0 +0.0	+3.2 +0.0	+5.9 +0.0	+13.4 +0.0	+0.0	39.4	105.5	-66.1	Vert
25	75.390M	22.8	+0.0 +0.0 +0.0	+1.6 +0.0	+5.9 +0.0	+7.0 +0.0	+0.0	37.3	105.5	-68.2	Vert
26	60.015M	22.5	+0.0 +0.0 +0.0	+1.4 +0.0	+5.9 +0.0	+6.2 +0.0	+0.0	36.0	105.5	-69.5	Vert
27	224.200M	15.4	+0.0 +0.0 +0.0	+2.8 +0.0	+5.9 +0.0	+10.6 +0.0	+0.0	34.7	105.5	-70.8	Horiz
28	74.790M	20.3	+0.0 +0.0 +0.0	+1.5 +0.0	+5.9 +0.0	+6.9 +0.0	+0.0	34.6	105.5	-70.9	Vert
29	75.790M	19.6	+0.0 +0.0 +0.0	+1.6 +0.0	+5.9 +0.0	+7.0 +0.0	+0.0	34.1	105.5	-71.4	Vert
30	61.015M	18.7	+0.0 +0.0 +0.0	+1.4 +0.0	+5.9 +0.0	+6.2 +0.0	+0.0	32.2	105.5	-73.3	Vert
31	196.700M	14.8	+0.0 +0.0 +0.0	+2.6 +0.0	+5.9 +0.0	+8.9 +0.0	+0.0	32.2	105.5	-73.3	Horiz
32	59.340M	17.9	+0.0 +0.0 +0.0	+1.4 +0.0	+5.9 +0.0	+6.4 +0.0	+0.0	31.6	105.5	-73.9	Vert

Test Location: CKC Laboratories • 100 North Olinda Place • Brea CA 92823 • 714 993-6112
 Customer: **Itron, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **103955** Date: 6/25/2020
 Test Type: **Maximized Emissions** Time: 09:58:17
 Tested By: Don Nguyen Sequence#: 6
 Software: EMITest 5.03.12

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 10			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 10			

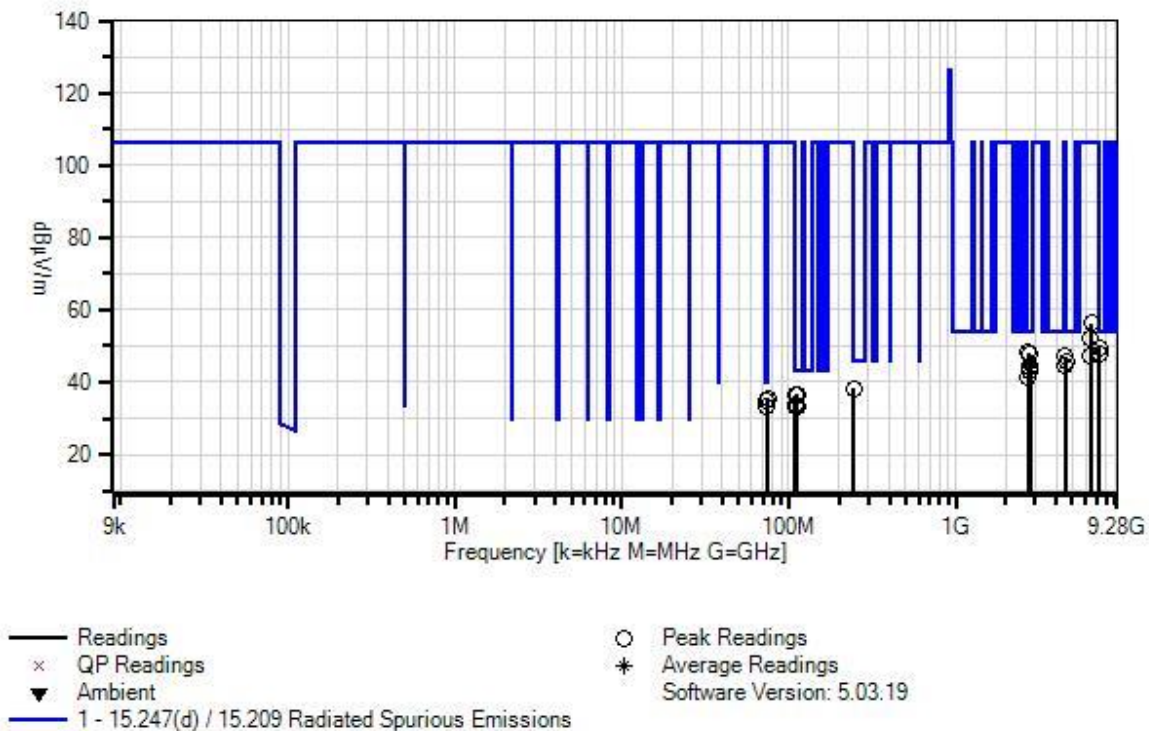
Test Conditions / Notes:

The EUT is placed on Styrofoam platform and connected to DC power supply. USB port is connected to a touchscreen tablet. The computer is sending command to the EUT using software MC3 SuperRaptor Test ver.4.0.3.5.

The EUT is set to continuously transmit.

Operating frequency: 908MHz, 916MHz, 924MHz
 Frequency of measurement: 9kHz-9.28GHz
 9kHz to 150kHz RBW=0.2kHz, VBW=0.6kHz.
 150kHz to 30MHz RBW=9kHz, VBW=27kHz.
 30-1000MHz, RBW=120kHz, VBW=360kHz
 1000-9280MHz, RBW=1MHz, VBW=3MHz
 RBW=100kHz, VBW=300kHz (-20dB limit)

Ittron, Inc. WO#: 103955 Sequence#: 6 Date: 6/25/2020
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Vert



Test Equipment:

ID	Asset #	Description	Model	Cal Date	Cal Due Date
	AN00314	Loop Antenna	6502	4/13/2020	4/13/2022
T1	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
T2	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
T3	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
	AN00309	Preamp	8447D	12/24/2019	12/24/2021
T4	AN02672	Spectrum Analyzer	E4446A	3/13/2019	3/13/2021
T5	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020
T6	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T7	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022
T8	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T9	ANP07243	Cable	32022-29094K-29094K-24TC	5/29/2020	5/29/2022
T10	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6 T10	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	7264.000M	43.8	+0.0 +0.0 +0.8	+0.0 -37.2 +0.2	+0.0 +36.0	+0.0 +6.1	+0.0	49.7	54.0	-4.3	Horiz
2	74.800M	21.2	+1.5 +0.0 +0.0	+5.9 +0.0 +0.0	+6.9 +0.0	+0.0 +0.0	+0.0	35.5	40.0	-4.5	Vert
3	74.800M	21.0	+1.5 +0.0 +0.0	+5.9 +0.0 +0.0	+6.9 +0.0	+0.0 +0.0	+0.0	35.3	40.0	-4.7	Vert
4	74.300M	20.7	+1.5 +0.0 +0.0	+5.9 +0.0 +0.0	+6.9 +0.0	+0.0 +0.0	+0.0	35.0	40.0	-5.0	Horiz
5	2724.000M	53.1	+0.0 +0.0 +0.5	+0.0 -38.5 +0.2	+0.0 +29.6	+0.0 +3.4	+0.0	48.3	54.0	-5.7	Vert
6	7264.000M	41.7	+0.0 +0.0 +0.8	+0.0 -37.2 +0.2	+0.0 +36.0	+0.0 +6.1	+0.0	47.6	54.0	-6.4	Vert
7	2772.000M	52.2	+0.0 +0.0 +0.5	+0.0 -38.5 +0.2	+0.0 +29.7	+0.0 +3.5	+0.0	47.6	54.0	-6.4	Vert
8	74.000M	19.0	+1.5 +0.0 +0.0	+5.9 +0.0 +0.0	+6.9 +0.0	+0.0 +0.0	+0.0	33.3	40.0	-6.7	Horiz
9	4540.000M	46.5	+0.0 +0.0 +0.7	+0.0 -37.4 +0.2	+0.0 +32.6	+0.0 +4.5	+0.0	47.1	54.0	-6.9	Vert
10	111.500M	18.0	+1.9 +0.0 +0.0	+5.9 +0.0 +0.0	+10.7 +0.0	+0.0 +0.0	+0.0	36.5	43.5	-7.0	Vert
11	109.000M	18.0	+1.8 +0.0 +0.0	+5.9 +0.0 +0.0	+10.6 +0.0	+0.0 +0.0	+0.0	36.3	43.5	-7.2	Vert
12	244.900M	17.4	+2.9 +0.0 +0.0	+5.9 +0.0 +0.0	+12.0 +0.0	+0.0 +0.0	+0.0	38.2	46.0	-7.8	Horiz
13	4580.000M	45.2	+0.0 +0.0 +0.7	+0.0 -37.4 +0.2	+0.0 +32.6	+0.0 +4.5	+0.0	45.8	54.0	-8.2	Horiz
14	2748.000M Ave	50.0	+0.0 +0.0 +0.5	+0.0 -38.5 +0.2	+0.0 +29.7	+0.0 +3.4	+0.0	45.3	54.0	-8.7	Vert
^	2748.000M	57.0	+0.0 +0.0 +0.5	+0.0 -38.5 +0.2	+0.0 +29.7	+0.0 +3.4	+0.0	52.3	54.0	-1.7	Vert

16	4540.000M	43.9	+0.0 +0.0 +0.7	+0.0 -37.4 +0.2	+0.0 +32.6	+0.0 +4.5	+0.0	44.5	54.0	-9.5	Horiz
17	111.100M	15.4	+1.9 +0.0 +0.0	+5.9 +0.0 +0.0	+10.7 +0.0	+0.0 +0.0	+0.0	33.9	43.5	-9.6	Horiz
18	2748.000M	48.5	+0.0 +0.0 +0.5	+0.0 -38.5 +0.2	+0.0 +29.7	+0.0 +3.4	+0.0	43.8	54.0	-10.2	Horiz
19	112.800M	14.5	+1.9 +0.0 +0.0	+5.9 +0.0 +0.0	+10.8 +0.0	+0.0 +0.0	+0.0	33.1	43.5	-10.4	Horiz
20	110.000M	14.6	+1.9 +0.0 +0.0	+5.9 +0.0 +0.0	+10.6 +0.0	+0.0 +0.0	+0.0	33.0	43.5	-10.5	Horiz
21	2772.000M	47.5	+0.0 +0.0 +0.5	+0.0 -38.5 +0.2	+0.0 +29.7	+0.0 +3.5	+0.0	42.9	54.0	-11.1	Horiz
22	2724.000M	46.1	+0.0 +0.0 +0.5	+0.0 -38.5 +0.2	+0.0 +29.6	+0.0 +3.4	+0.0	41.3	54.0	-12.7	Horiz
23	6468.000M	52.2	+0.0 +0.0 +0.8	+0.0 -37.2 +0.2	+0.0 +34.4	+0.0 +5.8	+0.0	56.2	106.3	-50.1	Horiz
24	6412.000M	47.9	+0.0 +0.0 +0.8	+0.0 -37.1 +0.2	+0.0 +34.4	+0.0 +5.8	+0.0	52.0	106.3	-54.3	Horiz
25	6412.000M	43.1	+0.0 +0.0 +0.8	+0.0 -37.1 +0.2	+0.0 +34.4	+0.0 +5.8	+0.0	47.2	106.3	-59.1	Vert

Band Edge

Band Edge Summary

Operating Mode: Single Channel (Low and High)

Configuration 5 (Internal Antenna)

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	FSK	Internal directional	22.1	<46	Pass
902	FSK	Internal directional	54.2	<108.5	Pass
928	FSK	Internal directional	55.4	<108.5	Pass
960	FSK	Internal directional	27.3	<54	Pass

Band Edge Summary

Operating Mode: Hopping

Configuration 5 (Internal Antenna)

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	FSK	Internal directional	22.7	<46	Pass
902	FSK	Internal directional	58.5	<108.5	Pass
928	FSK	Internal directional	56.3	<108.5	Pass
960	FSK	Internal directional	28.0	<54	Pass

Band Edge Summary

Operating Mode: Single Channel (Low and High)

Configuration 6 (3dBi Antenna)

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	FSK	External 3dBi Rubber Duck	23.9	<46	Pass
902	FSK	External 3dBi Rubber Duck	56.6	<105.5	Pass
928	FSK	External 3dBi Rubber Duck	57.5	<105.5	Pass
960	FSK	External 3dBi Rubber Duck	27.6	<54	Pass

Band Edge Summary

Operating Mode: Hopping

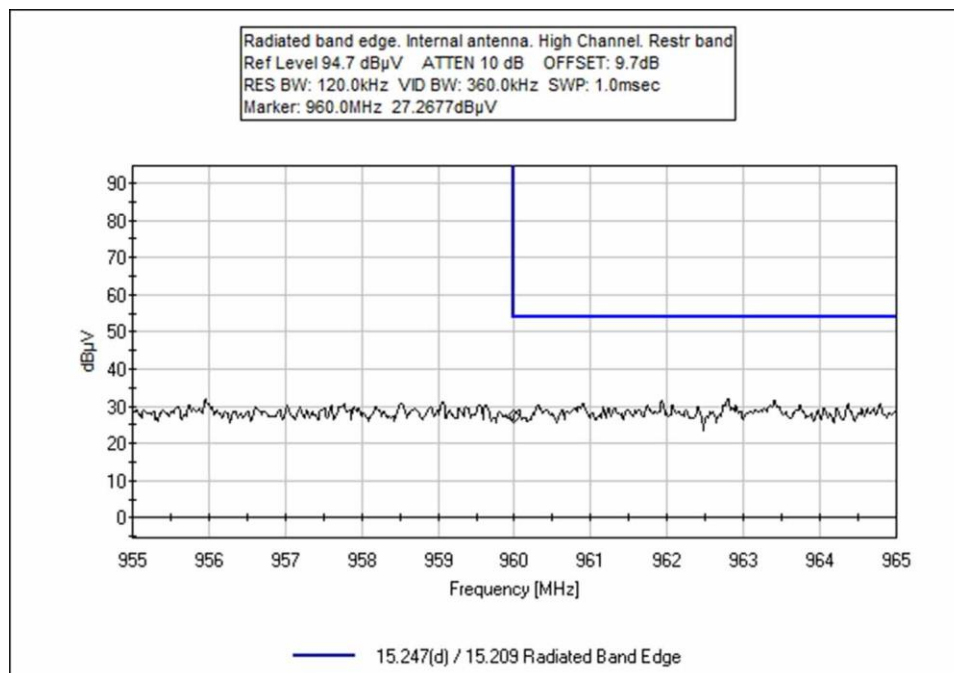
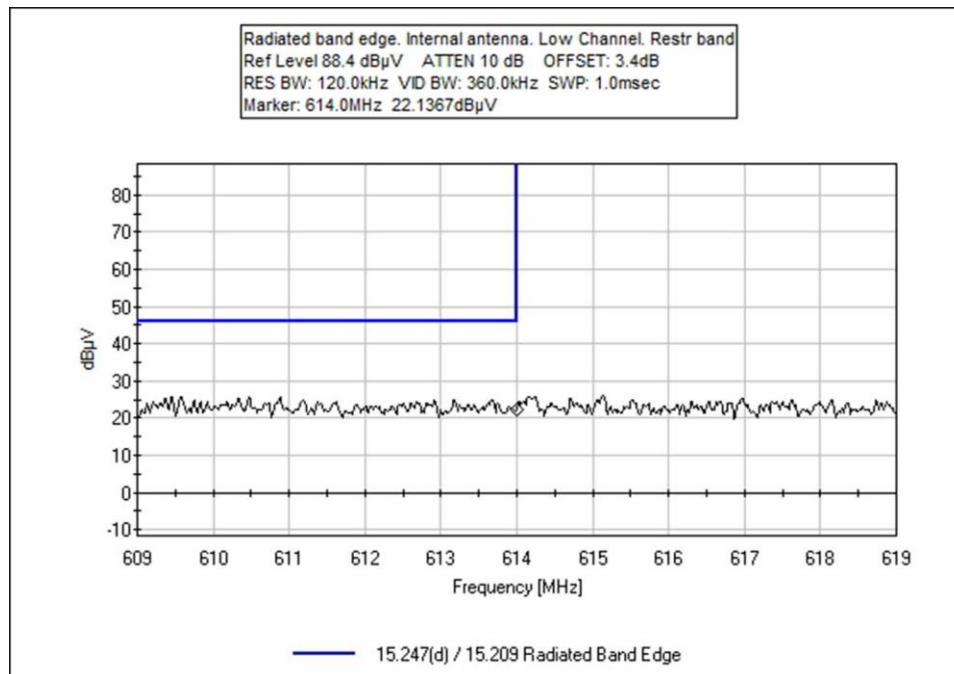
Configuration 6 (3dBi Antenna)

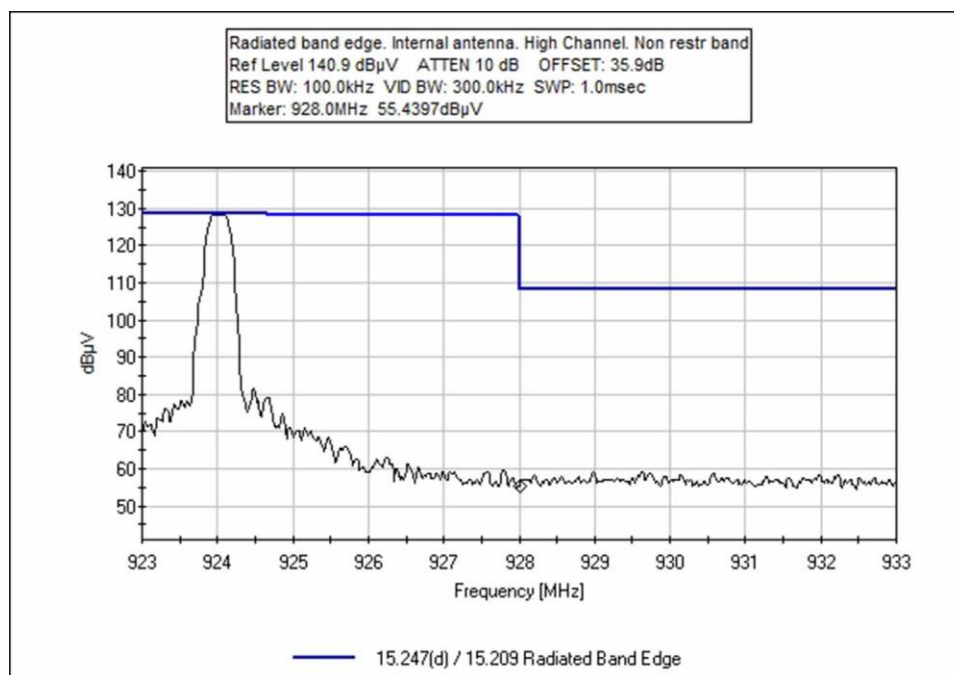
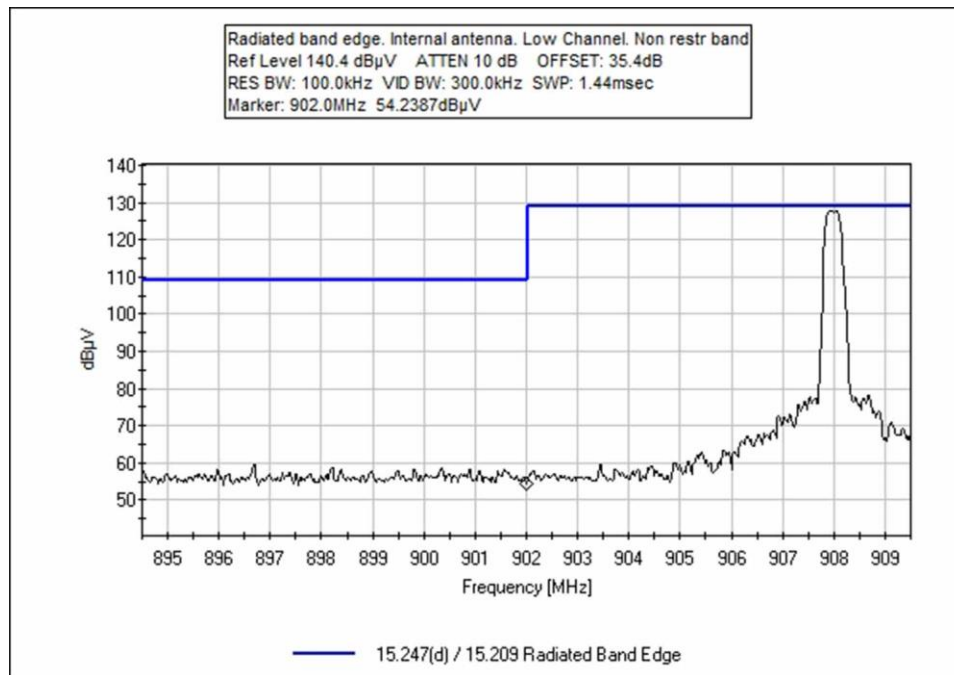
Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	FSK	External 3dBi Rubber Duck	23.8	<46	Pass
902	FSK	External 3dBi Rubber Duck	55.3	<105.5	Pass
928	FSK	External 3dBi Rubber Duck	57.1	<105.5	Pass
960	FSK	External 3dBi Rubber Duck	29.7	<54	Pass

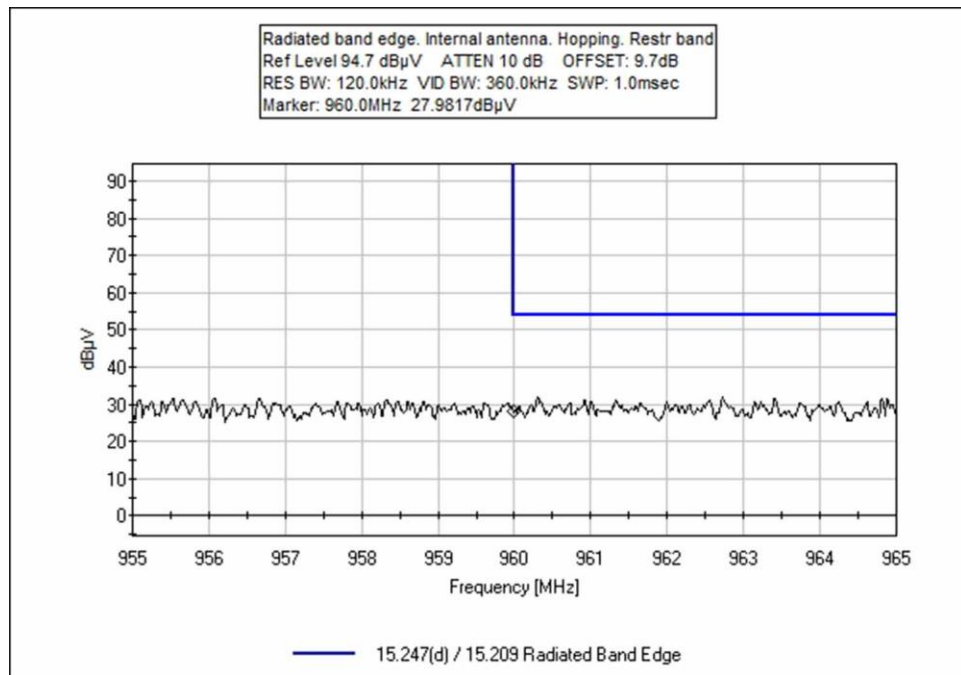
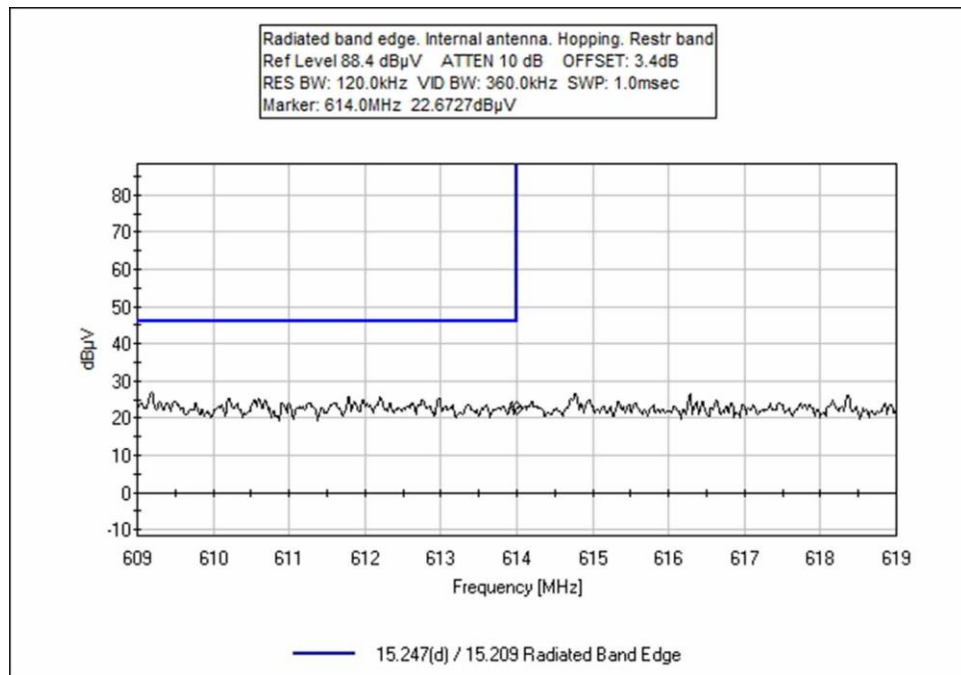
Band Edge Summary					
Operating Mode: Single Channel (Low and High)					
Configuration 7 (5dBi Antenna)					
Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	FSK	External 5dBi Monopole	27.5	<46	Pass
902	FSK	External 5dBi Monopole	56.4	<106.3	Pass
928	FSK	External 5dBi Monopole	57.0	<106.3	Pass
960	FSK	External 5dBi Monopole	27.7	<54	Pass

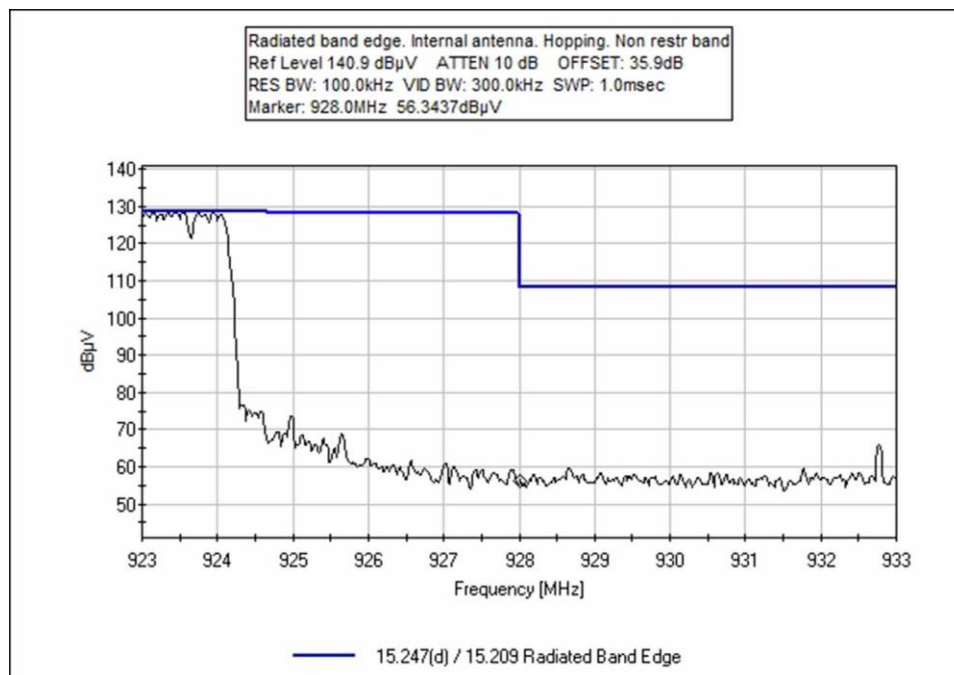
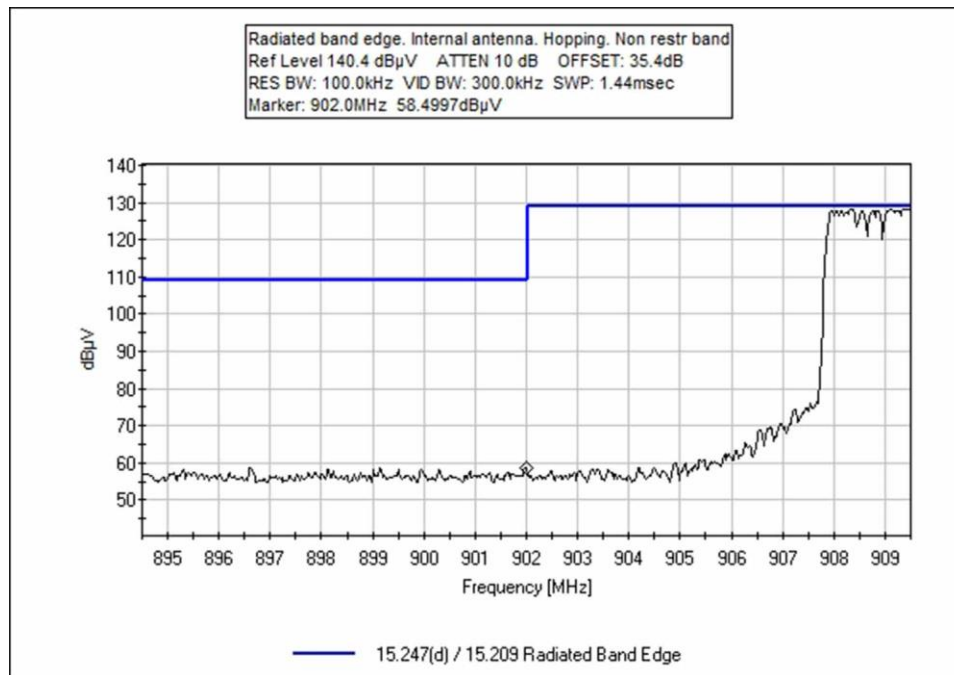
Band Edge Summary					
Operating Mode: Hopping					
Configuration 7 (5dBi Antenna)					
Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	FSK	External 5dBi Monopole	27.1	<46	Pass
902	FSK	External 5dBi Monopole	55.0	<106.3	Pass
928	FSK	External 5dBi Monopole	56.3	<106.3	Pass
960	FSK	External 5dBi Monopole	28.0	<54	Pass

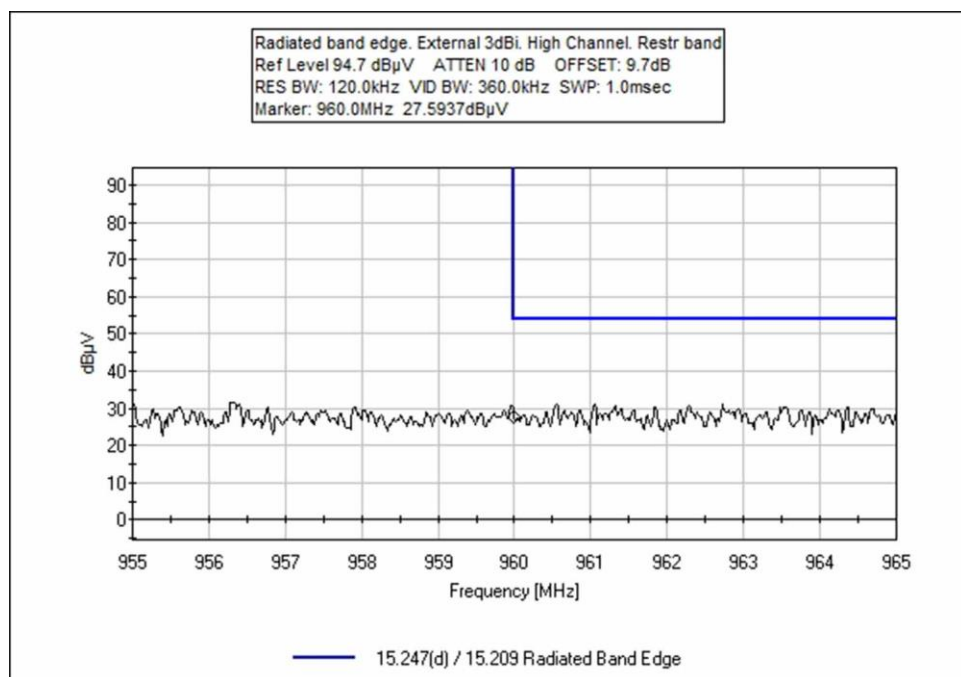
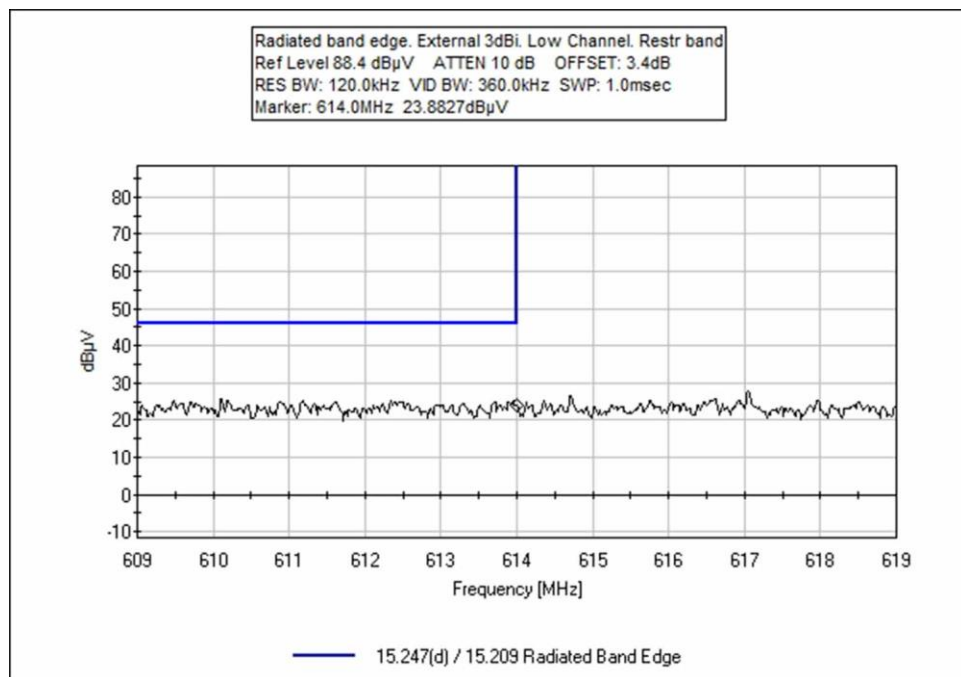
Band Edge Plots

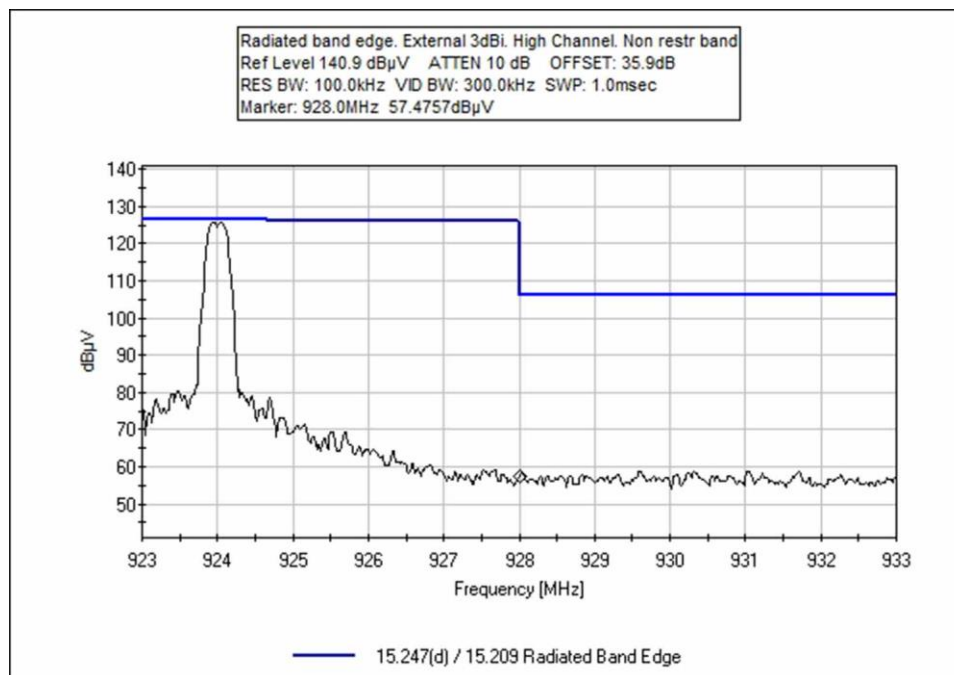
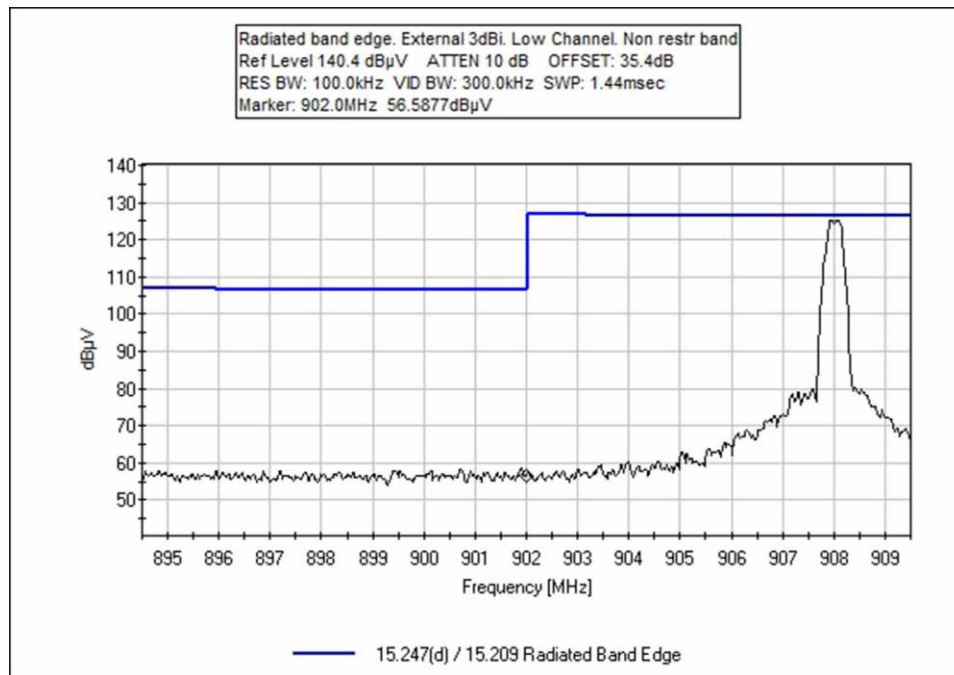


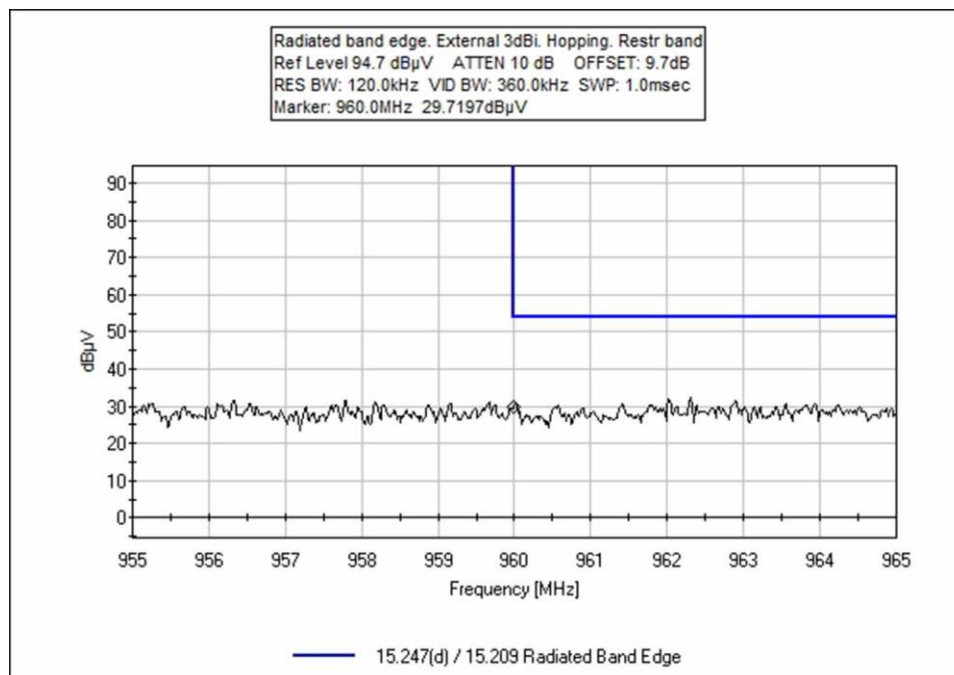
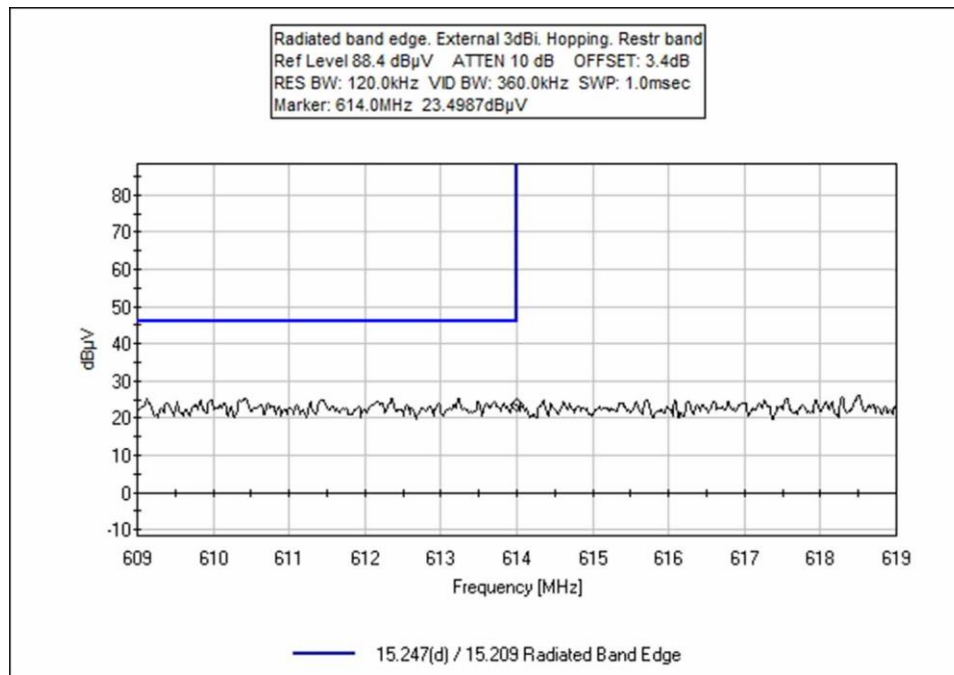


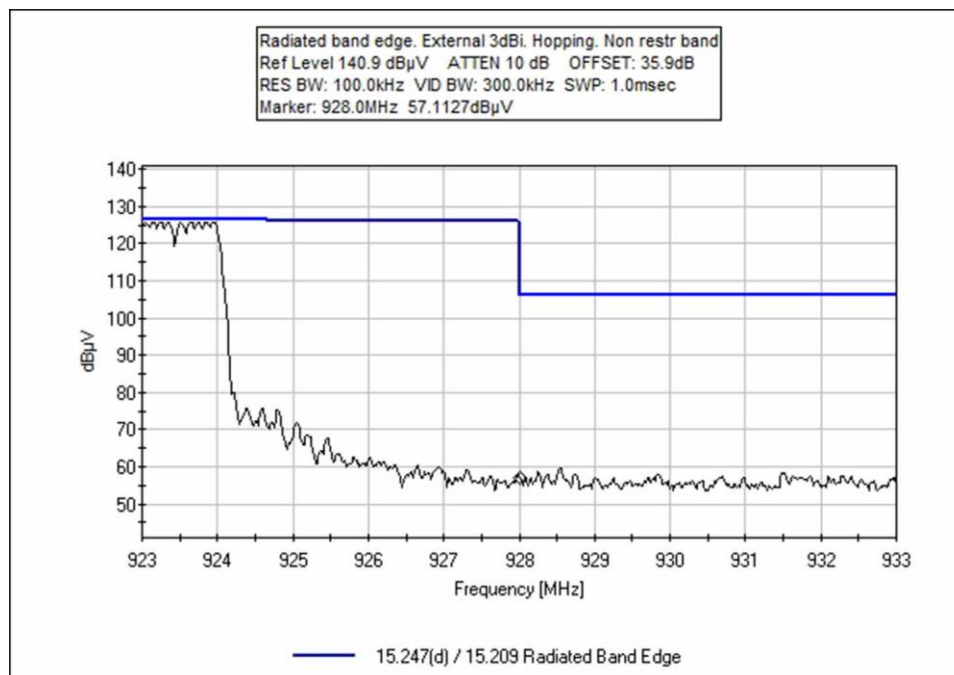
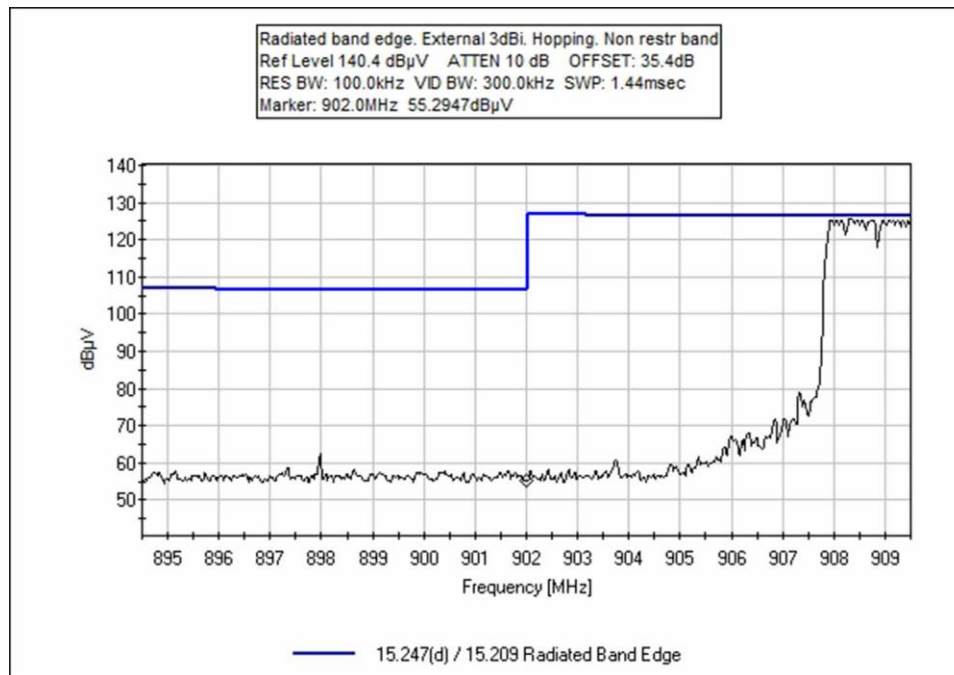


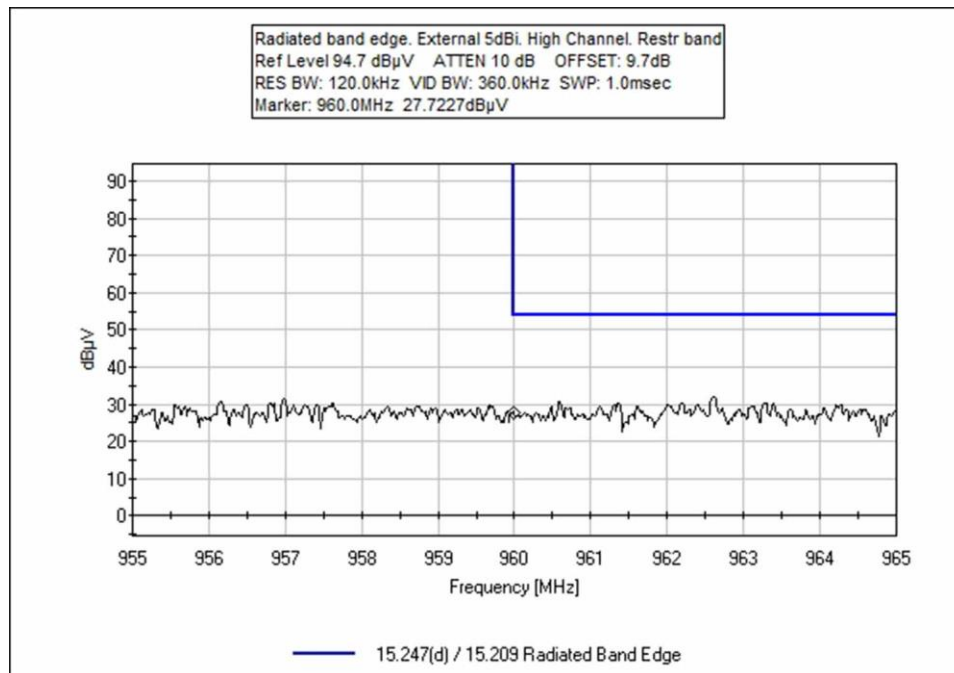
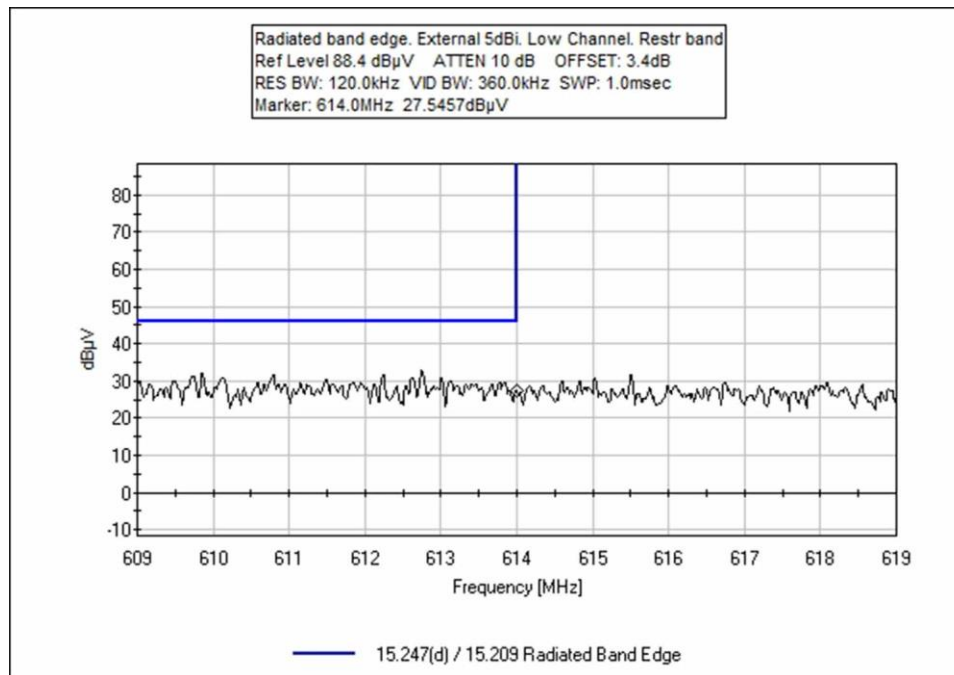


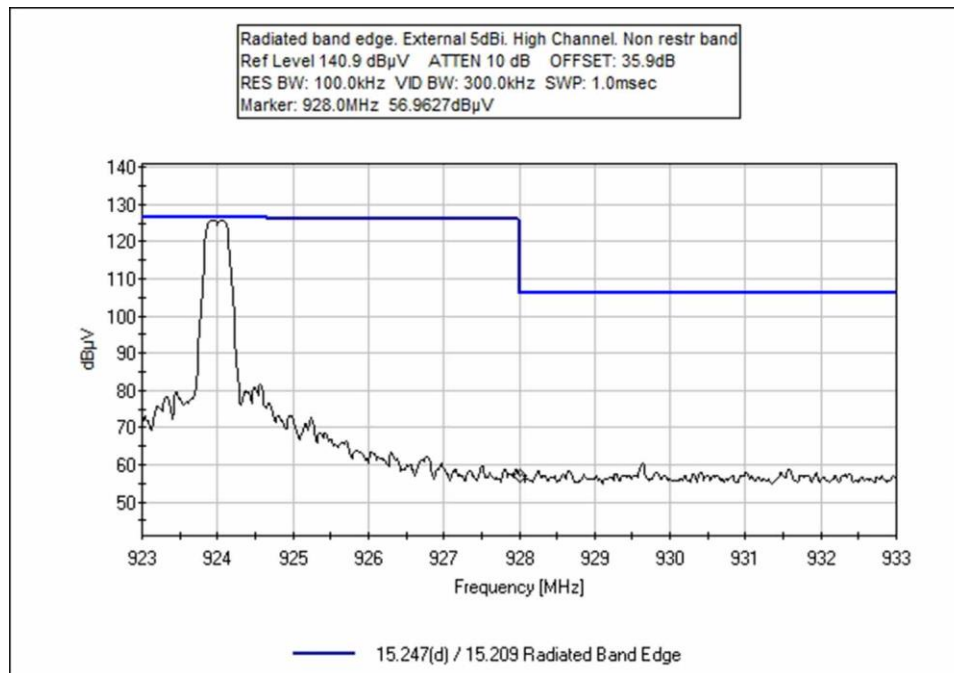
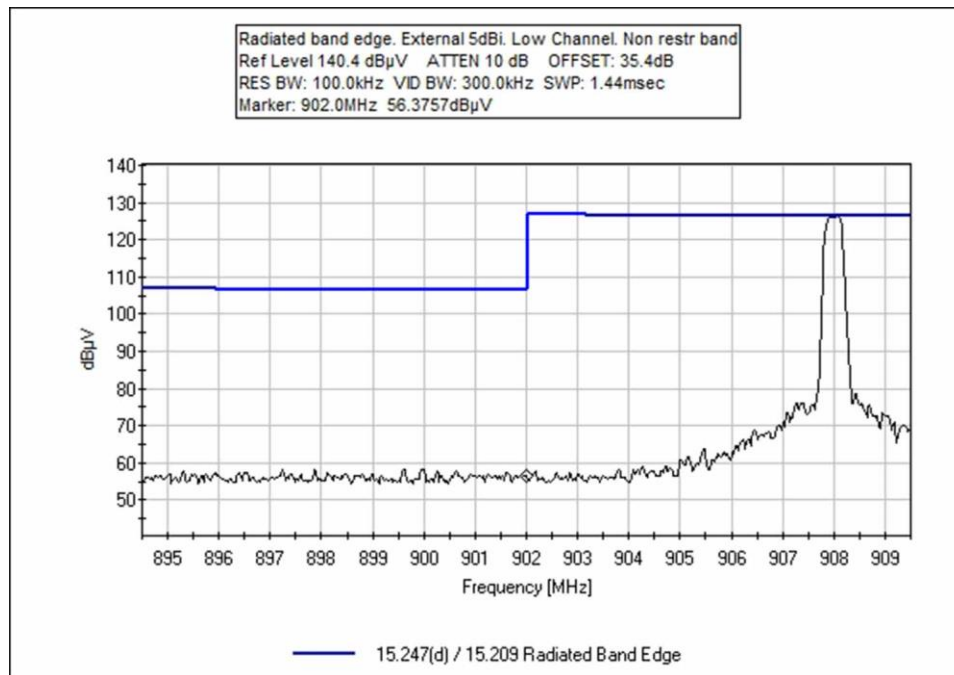


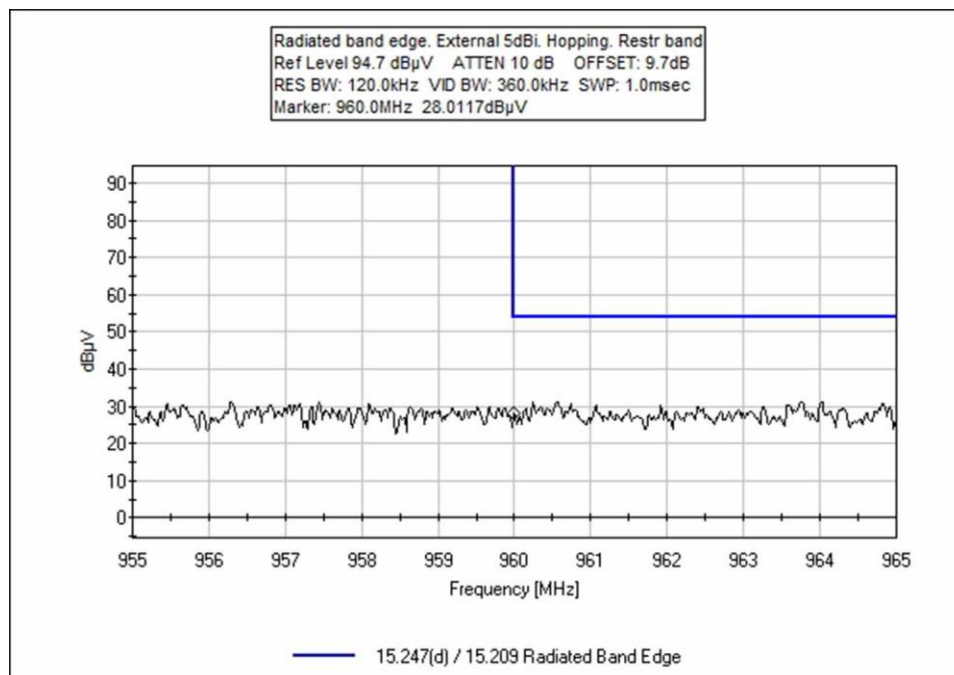
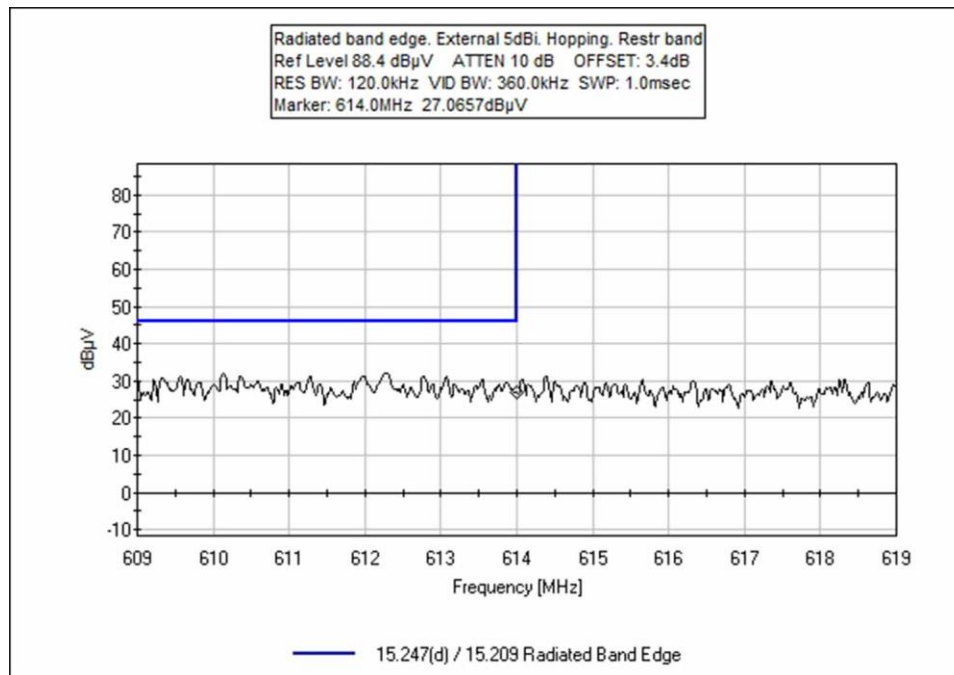


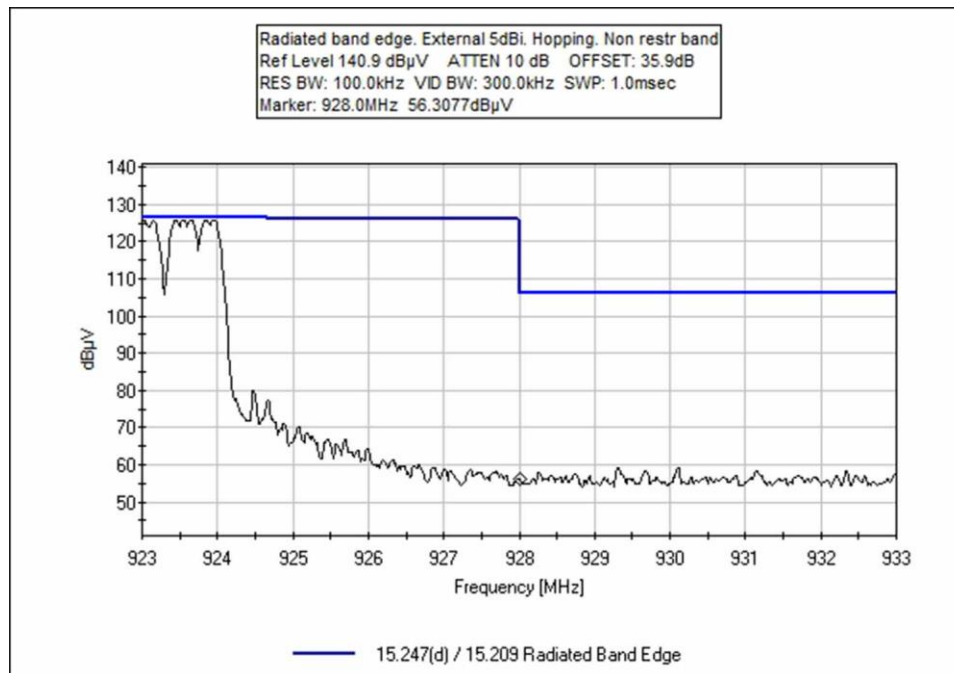
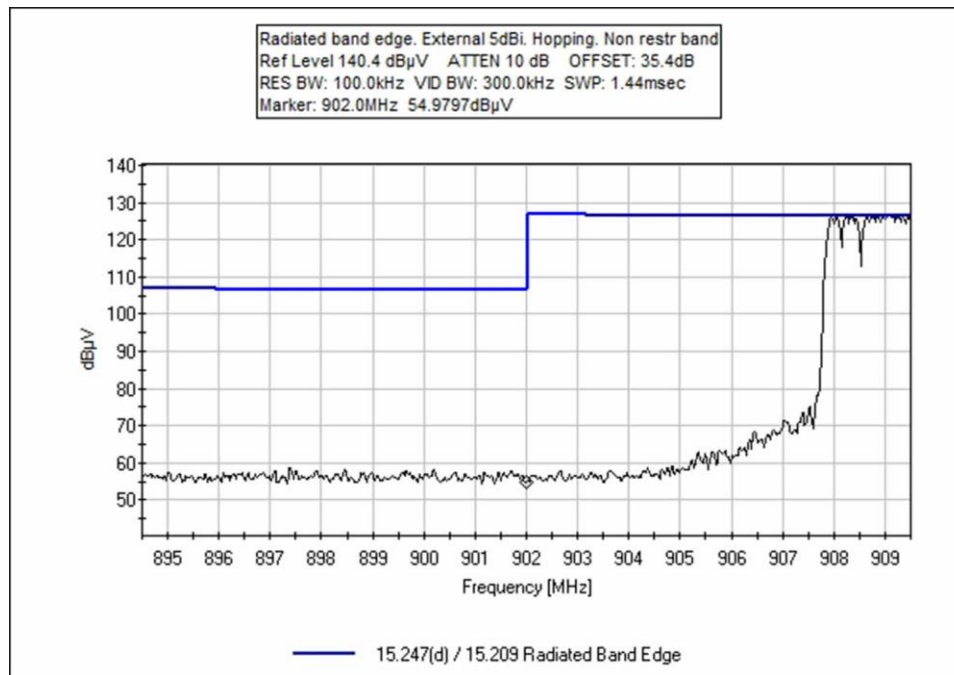












Test Setup / Conditions / Data

Test Location: CKC Laboratories • 100 North Olinda Place • Brea CA 92823 • 714 993-6112
 Customer: **Itron, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Band Edge**
 Work Order #: **103955** Date: 6/17/2020
 Test Type: **Radiated Scan** Time: 16:52:27
 Tested By: S. Yamamoto Sequence#: 3
 Software: EMITest 5.03.12

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 5			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 5			

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02869	Spectrum Analyzer	E4440A	7/25/2019	7/25/2020
T2	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
T3	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
T4	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
T5	AN00309	Preamplifier	8447D	12/24/2019	12/24/2021
T6	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	T5 dB	T6 dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	614.000M	19.3	+0.0 -27.4	+4.7 +0.4	+5.9	+19.8	+0.0	22.7	46.0	-23.3	Vert
									Internal, Low HOP		
2	614.000M	18.7	+0.0 -27.4	+4.7 +0.4	+5.9	+19.8	+0.0	22.1	46.0	-23.9	Vert
									Internal, Low CH		
3	960.000M	18.3	+0.0 -27.2	+6.1 +0.4	+6.0	+24.4	+0.0	28.0	54.0	-26.0	Vert
									Internal, High HOP		
4	960.000M	17.6	+0.0 -27.2	+6.1 +0.4	+6.0	+24.4	+0.0	27.3	54.0	-26.7	Vert
									Internal, High CH		
5	902.000M	23.1	+0.0 +0.0	+5.9 +0.0	+6.0	+23.5	+0.0	58.5	108.5	-50.0	Vert
									Internal Low HOP		
6	928.000M	20.4	+0.0 +0.0	+6.0 +0.0	+6.0	+23.9	+0.0	56.3	108.5	-52.2	Vert
									Internal, High HOP		
7	928.000M	19.5	+0.0 +0.0	+6.0 +0.0	+6.0	+23.9	+0.0	55.4	108.5	-53.1	Vert
									Internal, High CH		
8	902.000M	18.8	+0.0 +0.0	+5.9 +0.0	+6.0	+23.5	+0.0	54.2	108.5	-54.3	Vert
									Internal, Low CH		

Test Location: CKC Laboratories • 100 North Olinda Place • Brea CA 92823 • 714 993-6112
 Customer: **Itron, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Band Edge**
 Work Order #: **103955** Date: 6/17/2020
 Test Type: **Radiated Scan** Time: 14:30:03
 Tested By: S. Yamamoto Sequence#: 2
 Software: EMITest 5.03.12

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 6			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 6			

Test Equipment:

ID	Asset #/Serial #	Description	Model	Calibration Date	Cal Due Date
T1	AN02869	Spectrum Analyzer	E4440A	7/25/2019	7/25/2020
T2	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
T3	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
T4	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
T5	AN00309	Preamp	8447D	12/24/2019	12/24/2021
T6	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	614.000M	20.5	+0.0 -27.4	+4.7 +0.4	+5.9	+19.8	+0.0	23.9	46.0 Ext 3dBi, Low CH	-22.1	Vert
2	614.000M	20.4	+0.0 -27.4	+4.7 +0.4	+5.9	+19.8	+0.0	23.8	46.0 Ext 3dBi, Low HOP	-22.2	Vert
3	960.000M	20.0	+0.0 -27.2	+6.1 +0.4	+6.0	+24.4	+0.0	29.7	54.0 Ext 3dBi, High HOP	-24.3	Vert
4	960.000M	17.9	+0.0 -27.2	+6.1 +0.4	+6.0	+24.4	+0.0	27.6	54.0 Ext 3dBi, High CH	-26.4	Vert
5	928.000M	21.6	+0.0 +0.0	+6.0 +0.0	+6.0	+23.9	+0.0	57.5	105.5 Ext 3dBi, High CH	-48.0	Vert
6	928.000M	21.2	+0.0 +0.0	+6.0 +0.0	+6.0	+23.9	+0.0	57.1	105.5 Ext 3dBi, High HOP	-48.4	Vert
7	902.000M	21.2	+0.0 +0.0	+5.9 +0.0	+6.0	+23.5	+0.0	56.6	105.5 Ext 3dBi, Low CH	-48.9	Vert
8	902.000M	19.9	+0.0 +0.0	+5.9 +0.0	+6.0	+23.5	+0.0	55.3	105.5 Ext 3dBi, Low HOP	-50.2	Vert

Test Location: CKC Laboratories • 100 North Olinda Place • Brea CA 92823 • 714 993-6112
 Customer: **Itron, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Band Edge**
 Work Order #: **103955** Date: 6/17/2020
 Test Type: **Radiated Scan** Time: 12:13:34
 Tested By: S. Yamamoto Sequence#: 1
 Software: EMITest 5.03.12

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 7			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 7			

Test Equipment:

ID	Asset #/Serial #	Description	Model	Calibration Date	Cal Due Date
T1	AN02869	Spectrum Analyzer	E4440A	7/25/2019	7/25/2020
T2	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
T3	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
T4	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
T5	AN00309	Preamp	8447D	12/24/2019	12/24/2021
T6	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	614.000M	24.1	+0.0 -27.4	+4.7 +0.4	+5.9	+19.8	+0.0	27.5	46.0 Ext 5dBi, Low CH	-18.5	Vert
2	614.000M	23.7	+0.0 -27.4	+4.7 +0.4	+5.9	+19.8	+0.0	27.1	46.0 Ext 5dBi, Low HOP	-18.9	Vert
3	960.000M	18.3	+0.0 +0.0	+6.1 +0.0	+6.0	+24.4	+0.0	28.0	54.0 Ext 5dBi, High HOP	-26.0	Vert
4	960.000M	18.0	+0.0 +0.0	+6.1 +0.0	+6.0	+24.4	+0.0	27.7	54.0 Ext 5dBi, High CH	-26.3	Vert
5	928.000M	21.1	+0.0 +0.0	+6.0 +0.0	+6.0	+23.9	+0.0	57.0	106.3 Ext 5dBi, High CH	-49.3	Vert
6	902.000M	21.0	+0.0 +0.0	+5.9 +0.0	+6.0	+23.5	+0.0	56.4	106.3 Ext 5dBi, Low CH	-49.9	Vert
7	928.000M	20.4	+0.0 +0.0	+6.0 +0.0	+6.0	+23.9	+0.0	56.3	106.3 Ext 5dBi, High HOP	-50.0	Vert
8	902.000M	19.6	+0.0 +0.0	+5.9 +0.0	+6.0	+23.5	+0.0	55.0	106.3 Ext 5dBi, Low HOP	-51.3	Vert

15.35(c) Duty Cycle Correction Factor

Test Data Summary			
Antenna	Operational Mode	Measured On Time (mS / P _{obs})	Calculated DCCF (dB)
1	Normal hopping	44.5	-7dB

Observation Period, P_{obs} is the duration of the pulse train or maximum 100mS

Measured results are calculated as follows:

$$On\ Time = \left(\sum_{Bursts} RF\ Burst\ On\ Time + \sum_{Control} Control\ Signal\ On\ time \right) \Big|_{P_{obs} \ (max\ 100ms)}$$

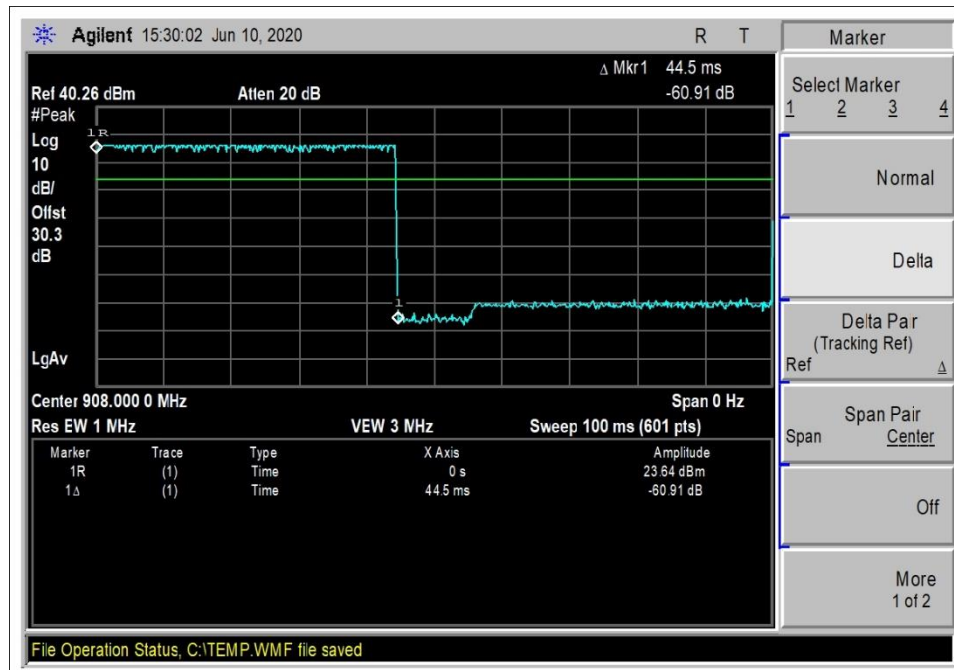
Measured Values:

Parameter	Value
Observation Period (P _{obs}):	100ms
Number of RF Bursts / P _{obs} :	1
On time of RF Burst:	44.5ms
Number of Control or other signals / P _{obs} :	0
On time of Control or other Signals:	0
Total Measured On Time:	44.5ms

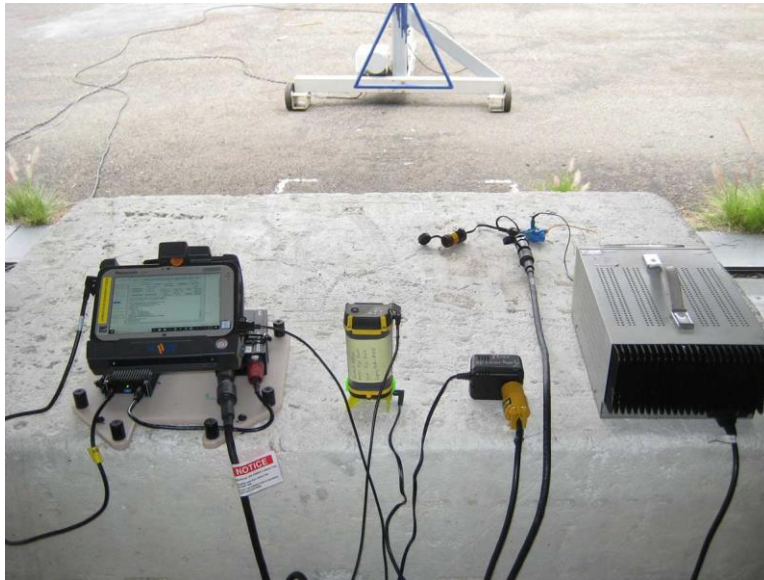
Duty Cycle Correction Factor (DCCF) is calculated in accordance with ANSI C63.10:

$$DCCF = 20 \cdot \log \left(\frac{On\ Time}{P_{obs}} \right)$$

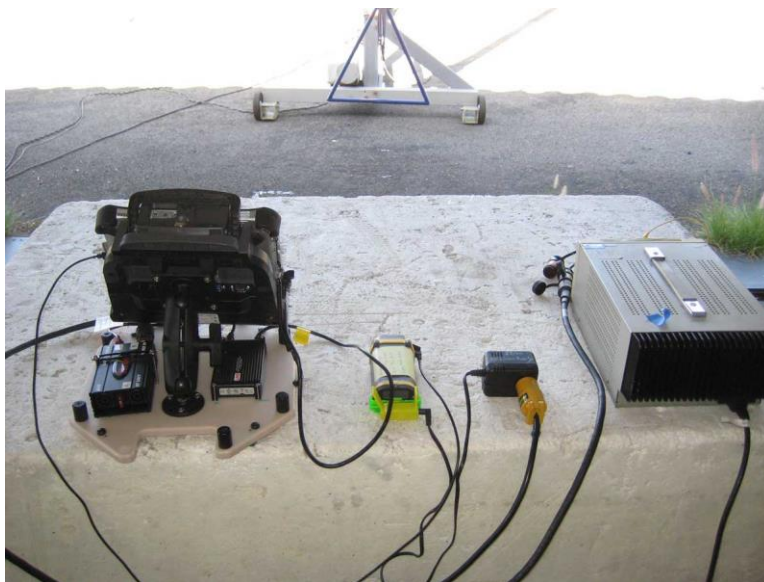
Plot



Test Setup Photo(s)



7" Tablet



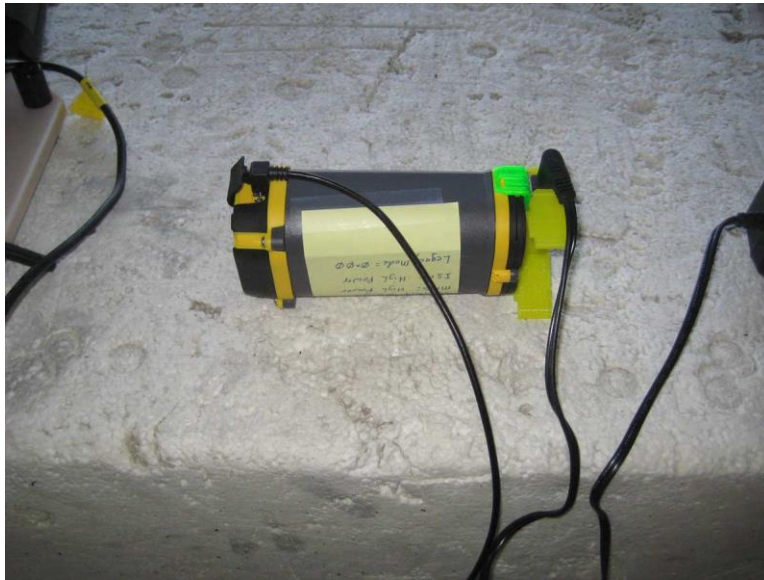
X Axis, IMRC-INT



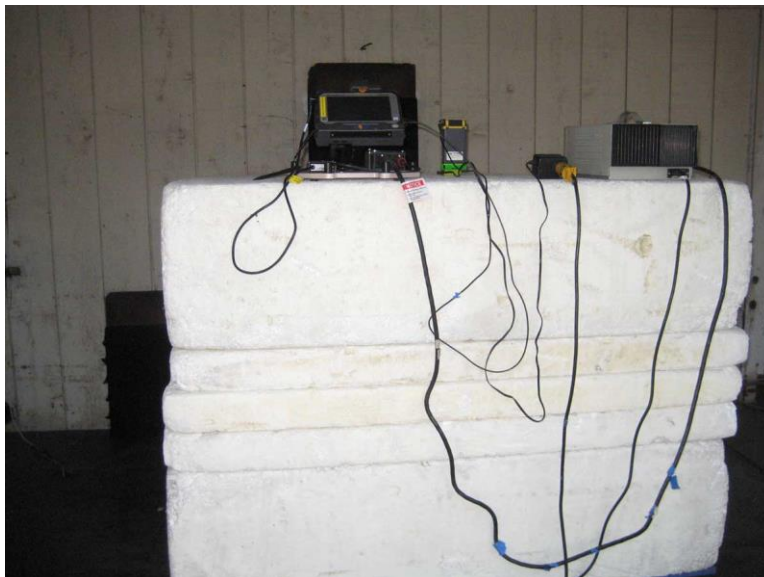
X Axis, IMRC-INT



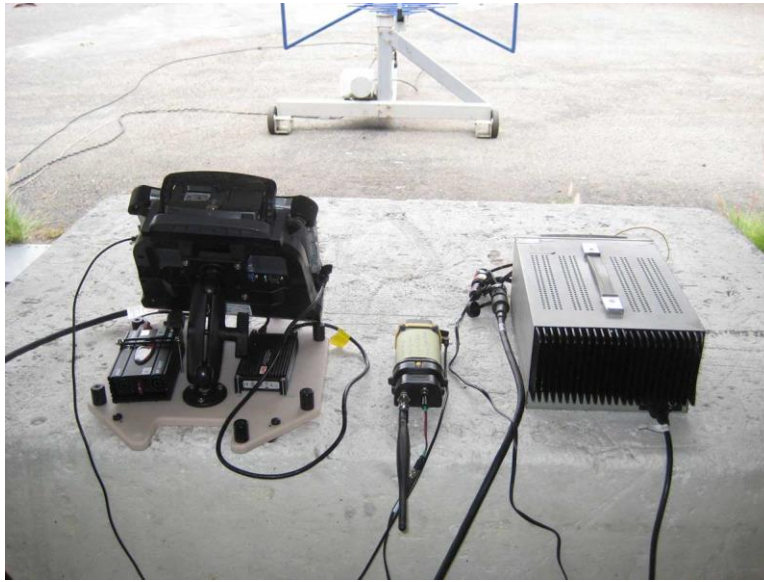
Y Axis, IMRC-INT



Z Axis, IMRC-INT



Above 1GHz, IMRC-INT



X Axis, IMRC-EXT 3dBi



X Axis, IMRC-EXT 3dBi



Y Axis, IMRC-EXT 3dBi



Z Axis, IMRC-EXT 3dBi



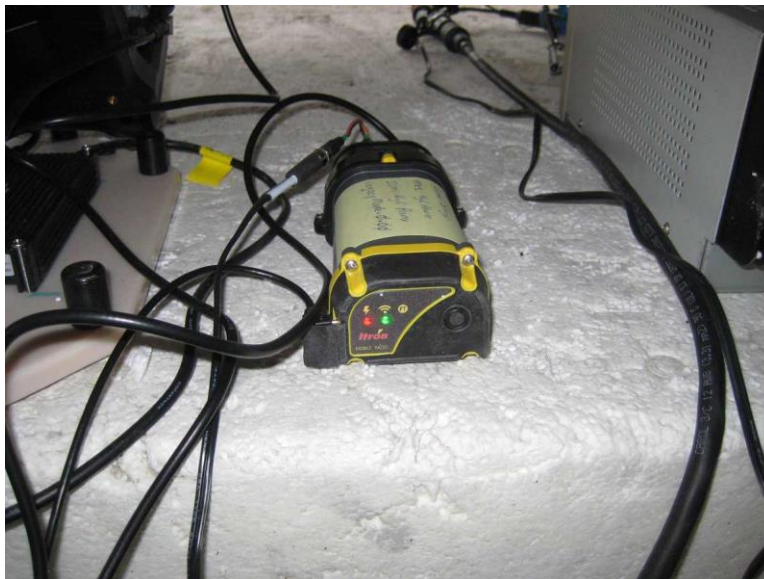
Above 1GHz, IMRC-EXT 3dBi



IMRC-EXT 5dBi



IMRC-EXT 5dBi



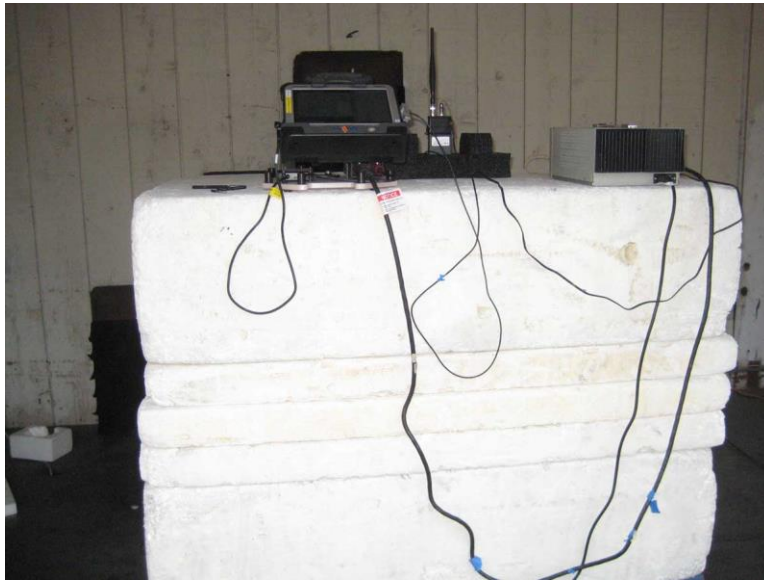
X Axis, IMRC-EXT 5dBi



Y Axis, IMRC-EXT 5dBi



Z Axis, IMRC-EXT 5dBi



Above 1GHz, IMRC-EXT 5dBi

15.207 AC Conducted Emissions

Test Setup / Conditions / Data

Test Location: CKC Laboratories Inc. • 110 N. Olinda Pl. • Brea, CA 92823 • 714-993-6112
 Customer: **Itron, Inc.**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **103955** Date: 6/12/2020
 Test Type: **Conducted Emissions** Time: 09:14:16
 Tested By: Don Nguyen Sequence#: 3
 Software: EMITest 5.03.12 120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 3			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

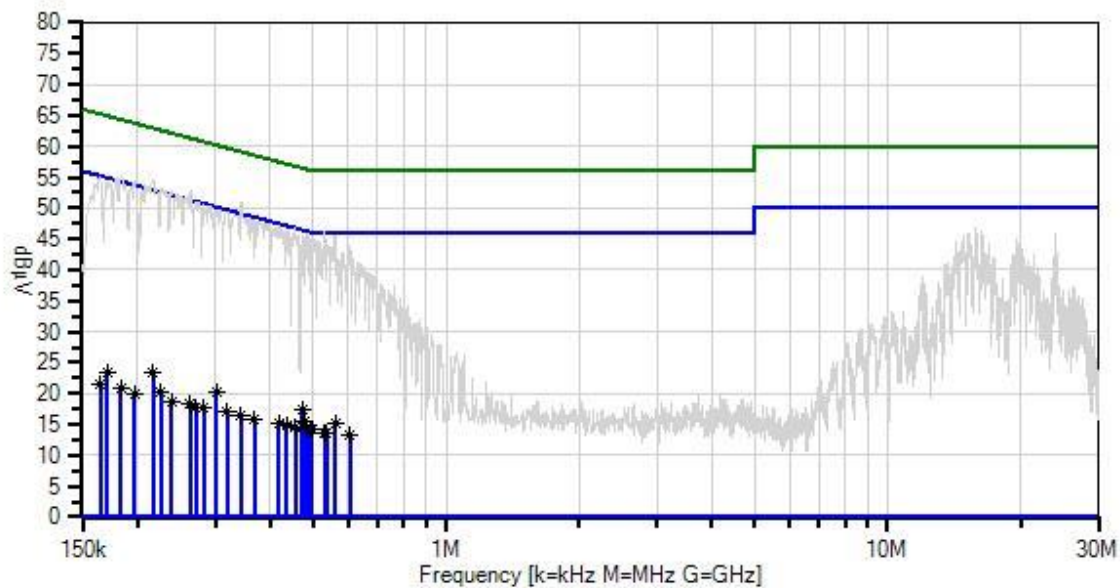
Test Conditions / Notes:

The EUT is placed on test bench. USB port is connected to a touchscreen tablet. The EUT is connected to 5Vdc charger. The computer is sending command to the EUT using software MC3 SuperRaptor Test ver.4.0.3.5. The EUT is set into transmitting mode.

Operating frequency: 908MHz (worst case with highest power)
 Frequency of measurement: 150kHz-30MHz
 RBW=9kHz, VBW=30kHz

Site A
 Temperature: 25°C
 Relative Humidity: 46%
 Test Method: ANSI C63.10:2013

Itron, Inc. WO#: 103955 Sequence#: 3 Date: 6/12/2020
15.207 AC Mains - Average Test Lead: 120V 60Hz L1-Line



— Sweep Data
× QP Readings
Software Version: 5.03.12
— Readings
* Average Readings
— 1 - 15.207 AC Mains - Average
○ Peak Readings
▼ Ambient
— 2 - 15.207 AC Mains - Quasi-peak

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP07545	Attenuator	SA18N10W-06	1/18/2019	1/18/2021
T2	ANP07338	Cable	2249-Y-240	12/24/2019	12/24/2021
	AN02869	Spectrum Analyzer	E4440A	7/25/2019	7/25/2020
T3	AN02610	High Pass Filter	HE9615-150K-50-720B	10/22/2019	10/22/2021
T4	AN00847.1	50uH LISN-(L) Line 1	3816/2NM	3/10/2020	3/10/2021
	AN00847.1	50uH LISN-(N) Line 2	3816/2NM	3/10/2020	3/10/2021
T5	ANP06986	Cable-Line L1(dB)	90cm-extcord	3/31/2020	3/31/2022
	ANP06986	Cable-Neutral L2(dB)	90cm-extcord	3/31/2020	3/31/2022

Measurement Data:

Reading listed by margin.

Test Lead: L1-Line

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV	Spec dBμV	Margin dB	Polar Ant
1	472.879k	11.3	+5.8	+0.0	+0.3	+0.0	+0.0	17.4	46.5	-29.1	L1-Li
	Ave		+0.0								
^	472.879k	39.6	+5.8	+0.0	+0.3	+0.0	+0.0	45.7	46.5	-0.8	L1-Li
			+0.0								
3	216.903k	17.3	+5.8	+0.0	+0.2	+0.0	+0.0	23.3	52.9	-29.6	L1-Li
	Ave		+0.0								
^	216.902k	48.6	+5.8	+0.0	+0.2	+0.0	+0.0	54.6	52.9	+1.7	L1-Li
			+0.0								
5	301.259k	14.4	+5.8	+0.0	+0.1	+0.0	+0.0	20.3	50.2	-29.9	L1-Li
	Ave		+0.0								
^	301.258k	44.0	+5.8	+0.0	+0.1	+0.0	+0.0	49.9	50.2	-0.3	L1-Li
			+0.0								
7	560.871k	9.0	+5.8	+0.1	+0.3	+0.0	+0.0	15.2	46.0	-30.8	L1-Li
	Ave		+0.0								
^	560.871k	39.5	+5.8	+0.1	+0.3	+0.0	+0.0	45.7	46.0	-0.3	L1-Li
			+0.0								
9	478.697k	9.5	+5.8	+0.0	+0.3	+0.0	+0.0	15.6	46.4	-30.8	L1-Li
	Ave		+0.0								
^	478.697k	39.3	+5.8	+0.0	+0.3	+0.0	+0.0	45.4	46.4	-1.0	L1-Li
			+0.0								
11	170.362k	17.3	+5.8	+0.0	+0.3	+0.0	+0.0	23.4	54.9	-31.5	L1-Li
	Ave		+0.0								
^	170.361k	48.1	+5.8	+0.0	+0.3	+0.0	+0.0	54.2	54.9	-0.7	L1-Li
			+0.0								
13	496.877k	8.1	+5.8	+0.0	+0.3	+0.0	+0.0	14.2	46.1	-31.9	L1-Li
	Ave		+0.0								
^	496.877k	39.1	+5.8	+0.0	+0.3	+0.0	+0.0	45.2	46.1	-0.9	L1-Li
			+0.0								
15	491.060k	8.1	+5.8	+0.0	+0.3	+0.0	+0.0	14.2	46.1	-31.9	L1-Li
	Ave		+0.0								
^	491.059k	39.0	+5.8	+0.0	+0.3	+0.0	+0.0	45.1	46.1	-1.0	L1-Li
			+0.0								
17	485.242k	8.1	+5.8	+0.0	+0.3	+0.0	+0.0	14.2	46.2	-32.0	L1-Li
	Ave		+0.0								
^	485.241k	40.0	+5.8	+0.0	+0.3	+0.0	+0.0	46.1	46.2	-0.1	L1-Li
			+0.0								
19	454.699k	8.6	+5.8	+0.0	+0.3	+0.0	+0.0	14.7	46.8	-32.1	L1-Li
	Ave		+0.0								
^	454.699k	40.8	+5.8	+0.0	+0.3	+0.0	+0.0	46.9	46.8	+0.1	L1-Li
			+0.0								
21	434.338k	8.9	+5.8	+0.0	+0.2	+0.0	+0.0	14.9	47.2	-32.3	L1-Li
	Ave		+0.0								
^	434.337k	40.4	+5.8	+0.0	+0.2	+0.0	+0.0	46.4	47.2	-0.8	L1-Li
			+0.0								
23	226.357k	14.3	+5.8	+0.0	+0.2	+0.0	+0.0	20.3	52.6	-32.3	L1-Li
	Ave		+0.0								
^	226.356k	47.2	+5.8	+0.0	+0.2	+0.0	+0.0	53.2	52.6	+0.6	L1-Li
			+0.0								

25	416.885k	9.1	+5.8	+0.0	+0.2	+0.0	+0.0	15.1	47.5	-32.4	L1-Li
	Ave		+0.0								
^	416.884k	41.1	+5.8	+0.0	+0.2	+0.0	+0.0	47.1	47.5	-0.4	L1-Li
			+0.0								
27	536.146k	7.5	+5.8	+0.0	+0.3	+0.0	+0.0	13.6	46.0	-32.4	L1-Li
	Ave		+0.0								
^	536.146k	38.2	+5.8	+0.0	+0.3	+0.0	+0.0	44.3	46.0	-1.7	L1-Li
			+0.0								
29	530.329k	7.4	+5.8	+0.0	+0.3	+0.0	+0.0	13.5	46.0	-32.5	L1-Li
	Ave		+0.0								
^	530.328k	40.2	+5.8	+0.0	+0.3	+0.0	+0.0	46.3	46.0	+0.3	L1-Li
			+0.0								
31	605.958k	7.2	+5.8	+0.1	+0.3	+0.0	+0.0	13.4	46.0	-32.6	L1-Li
	Ave		+0.0								
^	605.958k	37.9	+5.8	+0.1	+0.3	+0.0	+0.0	44.1	46.0	-1.9	L1-Li
			+0.0								
33	343.437k	10.6	+5.8	+0.0	+0.1	+0.0	+0.0	16.5	49.1	-32.6	L1-Li
	Ave		+0.0								
^	343.436k	45.1	+5.8	+0.0	+0.1	+0.0	+0.0	51.0	49.1	+1.9	L1-Li
			+0.0								
35	318.712k	11.1	+5.8	+0.0	+0.1	+0.0	+0.0	17.0	49.7	-32.7	L1-Li
	Ave		+0.0								
^	318.711k	43.5	+5.8	+0.0	+0.1	+0.0	+0.0	49.4	49.7	-0.3	L1-Li
			+0.0								
37	368.162k	9.8	+5.8	+0.0	+0.2	+0.0	+0.0	15.8	48.5	-32.7	L1-Li
	Ave		+0.0								
^	368.161k	42.1	+5.8	+0.0	+0.2	+0.0	+0.0	48.1	48.5	-0.4	L1-Li
			+0.0								
39	263.444k	12.3	+5.8	+0.0	+0.1	+0.0	+0.0	18.2	51.3	-33.1	L1-Li
	Ave		+0.0								
^	263.444k	46.9	+5.8	+0.0	+0.1	+0.0	+0.0	52.8	51.3	+1.5	L1-Li
			+0.0								
41	282.351k	11.7	+5.8	+0.0	+0.1	+0.0	+0.0	17.6	50.7	-33.1	L1-Li
	Ave		+0.0								
^	282.351k	44.7	+5.8	+0.0	+0.1	+0.0	+0.0	50.6	50.7	-0.1	L1-Li
			+0.0								
43	270.716k	11.9	+5.8	+0.0	+0.1	+0.0	+0.0	17.8	51.1	-33.3	L1-Li
	Ave		+0.0								
^	270.716k	45.2	+5.8	+0.0	+0.1	+0.0	+0.0	51.1	51.1	+0.0	L1-Li
			+0.0								
45	238.719k	12.7	+5.8	+0.0	+0.2	+0.0	+0.0	18.7	52.1	-33.4	L1-Li
	Ave		+0.0								
^	238.719k	46.8	+5.8	+0.0	+0.2	+0.0	+0.0	52.8	52.1	+0.7	L1-Li
			+0.0								

47	183.451k	14.7	+5.8	+0.0	+0.3	+0.0	+0.0	20.8	54.3	-33.5	L1-Li
	Ave		+0.0								
^	183.451k	48.9	+5.8	+0.0	+0.3	+0.0	+0.0	55.0	54.3	+0.7	L1-Li
			+0.0								
^	179.088k	48.8	+5.8	+0.0	+0.3	+0.0	+0.0	54.9	54.5	+0.4	L1-Li
			+0.0								
50	164.544k	15.4	+5.8	+0.0	+0.4	+0.0	+0.0	21.6	55.2	-33.6	L1-Li
	Ave		+0.0								
^	164.544k	48.9	+5.8	+0.0	+0.4	+0.0	+0.0	55.1	55.2	-0.1	L1-Li
			+0.0								
52	197.268k	13.9	+5.8	+0.0	+0.2	+0.0	+0.0	19.9	53.7	-33.8	L1-Li
	Ave		+0.0								
^	197.268k	48.4	+5.8	+0.0	+0.2	+0.0	+0.0	54.4	53.7	+0.7	L1-Li
			+0.0								

Test Location: CKC Laboratories Inc. • 110 N. Olinda Pl. • Brea, CA 92823 • 714-993-6112
 Customer: **Itron, Inc.**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **103955** Date: 6/12/2020
 Test Type: **Conducted Emissions** Time: 09:22:39
 Tested By: Don Nguyen Sequence#: 4
 Software: EMITest 5.03.12 120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 3			

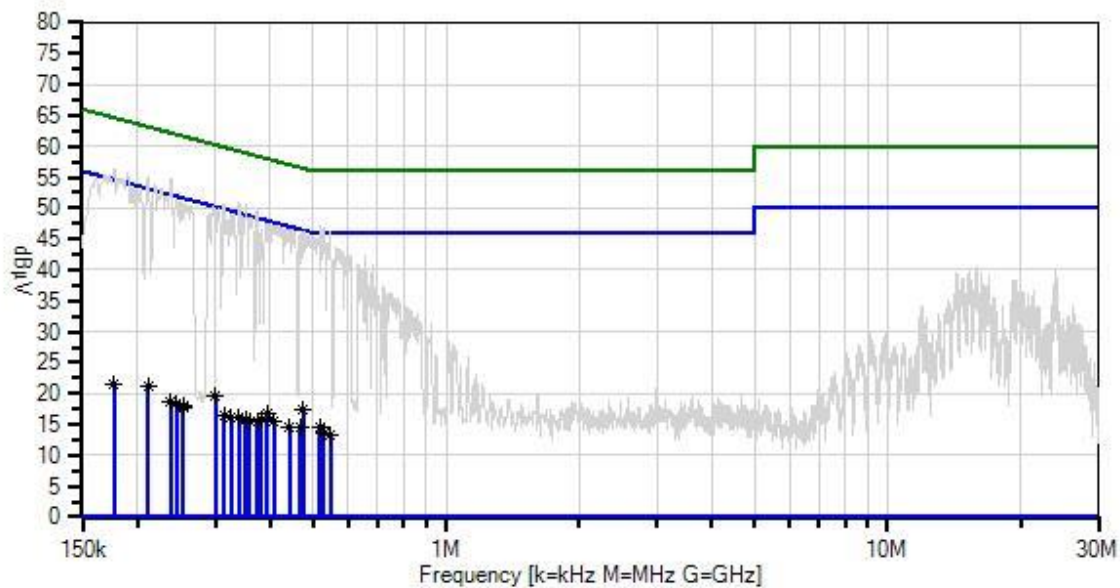
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

Test Conditions / Notes:

The EUT is placed on test bench. USB port is connected to a touchscreen tablet. The EUT is connected to 5Vdc charger. The computer is sending command to the EUT using software MC3 SuperRaptor Test ver.4.0.3.5. The EUT is set into transmitting mode. Operating frequency: 908MHz (worst case with highest power) Frequency of measurement: 150kHz-30MHz RBW=9kHz, VBW=30kHz Site A Temperature: 25°C Relative Humidity: 46% Test Method: ANSI C63.10:2013

Itron, Inc. WO#: 103955 Sequence#: 4 Date: 6/12/2020
15.207 AC Mains - Average Test Lead: 120V 60Hz L2-Neutral



— Sweep Data
× QP Readings
Software Version: 5.03.12
— Readings
* Average Readings
— 1 - 15.207 AC Mains - Average
○ Peak Readings
▼ Ambient
— 2 - 15.207 AC Mains - Quasi-peak

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP07545	Attenuator	SA18N10W-06	1/18/2019	1/18/2021
T2	ANP07338	Cable	2249-Y-240	12/24/2019	12/24/2021
	AN02869	Spectrum Analyzer	E4440A	7/25/2019	7/25/2020
T3	AN02610	High Pass Filter	HE9615-150K-50-720B	10/22/2019	10/22/2021
	AN00847.1	50uH LISN-(L) Line 1	3816/2NM	3/10/2020	3/10/2021
T4	AN00847.1	50uH LISN-(N) Line 2	3816/2NM	3/10/2020	3/10/2021
	ANP06986	Cable-Line L1(dB)	90cm-extcord	3/31/2020	3/31/2022
T5	ANP06986	Cable-Neutral L2(dB)	90cm-extcord	3/31/2020	3/31/2022

Measurement Data:

Reading listed by margin.

Test Lead: L2-Neutral

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V	dB μ V	dB	Ant
1	475.061k	11.3	+5.8	+0.0	+0.3	+0.0	+0.0	17.4	46.4	-29.0	L2-Ne
	Ave		+0.0								
^	475.061k	40.1	+5.8	+0.0	+0.3	+0.0	+0.0	46.2	46.4	-0.2	L2-Ne
			+0.0								
3	300.532k	13.7	+5.8	+0.0	+0.1	+0.0	+0.0	19.6	50.2	-30.6	L2-Ne
	Ave		+0.0								
^	300.531k	44.3	+5.8	+0.0	+0.1	+0.0	+0.0	50.2	50.2	+0.0	L2-Ne
			+0.0								
^	304.894k	44.2	+5.8	+0.0	+0.1	+0.0	+0.0	50.1	50.1	+0.0	L2-Ne
			+0.0								
6	392.160k	10.7	+5.8	+0.0	+0.2	+0.0	+0.0	16.7	48.0	-31.3	L2-Ne
	Ave		+0.0								
^	392.159k	41.6	+5.8	+0.0	+0.2	+0.0	+0.0	47.6	48.0	-0.4	L2-Ne
			+0.0								
8	517.239k	8.4	+5.8	+0.0	+0.3	+0.0	+0.0	14.5	46.0	-31.5	L2-Ne
	Ave		+0.0								
^	517.239k	41.1	+5.8	+0.0	+0.3	+0.0	+0.0	47.2	46.0	+1.2	L2-Ne
			+0.0								
10	211.085k	15.1	+5.8	+0.0	+0.2	+0.0	+0.0	21.1	53.2	-32.1	L2-Ne
	Ave		+0.0								
^	211.085k	49.0	+5.8	+0.0	+0.2	+0.0	+0.0	55.0	53.2	+1.8	L2-Ne
			+0.0								
12	467.062k	8.4	+5.8	+0.0	+0.3	+0.0	+0.0	14.5	46.6	-32.1	L2-Ne
	Ave		+0.0								
^	467.061k	40.0	+5.8	+0.0	+0.3	+0.0	+0.0	46.1	46.6	-0.5	L2-Ne
			+0.0								
14	408.158k	9.4	+5.8	+0.0	+0.2	+0.0	+0.0	15.4	47.7	-32.3	L2-Ne
	Ave		+0.0								
^	408.158k	41.2	+5.8	+0.0	+0.2	+0.0	+0.0	47.2	47.7	-0.5	L2-Ne
			+0.0								
16	381.979k	9.8	+5.8	+0.0	+0.2	+0.0	+0.0	15.8	48.2	-32.4	L2-Ne
	Ave		+0.0								
^	381.978k	40.6	+5.8	+0.0	+0.2	+0.0	+0.0	46.6	48.2	-1.6	L2-Ne
			+0.0								
18	442.337k	8.5	+5.8	+0.0	+0.2	+0.0	+0.0	14.5	47.0	-32.5	L2-Ne
	Ave		+0.0								
^	442.336k	40.6	+5.8	+0.0	+0.2	+0.0	+0.0	46.6	47.0	-0.4	L2-Ne
			+0.0								
20	526.693k	7.4	+5.8	+0.0	+0.3	+0.0	+0.0	13.5	46.0	-32.5	L2-Ne
	Ave		+0.0								
^	526.692k	40.7	+5.8	+0.0	+0.3	+0.0	+0.0	46.8	46.0	+0.8	L2-Ne
			+0.0								

22	546.327k	7.1	+5.8	+0.0	+0.3	+0.0	+0.0	13.2	46.0	-32.8	L2-Ne
	Ave		+0.0								
^	546.327k	40.1	+5.8	+0.0	+0.3	+0.0	+0.0	46.2	46.0	+0.2	L2-Ne
			+0.0								
24	352.163k	9.9	+5.8	+0.0	+0.2	+0.0	+0.0	15.9	48.9	-33.0	L2-Ne
	Ave		+0.0								
^	352.163k	44.6	+5.8	+0.0	+0.2	+0.0	+0.0	50.6	48.9	+1.7	L2-Ne
			+0.0								
26	373.252k	9.4	+5.8	+0.0	+0.2	+0.0	+0.0	15.4	48.4	-33.0	L2-Ne
	Ave		+0.0								
^	373.252k	44.0	+5.8	+0.0	+0.2	+0.0	+0.0	50.0	48.4	+1.6	L2-Ne
			+0.0								
28	339.074k	10.1	+5.8	+0.0	+0.1	+0.0	+0.0	16.0	49.2	-33.2	L2-Ne
	Ave		+0.0								
^	339.073k	45.1	+5.8	+0.0	+0.1	+0.0	+0.0	51.0	49.2	+1.8	L2-Ne
			+0.0								
30	176.907k	15.3	+5.8	+0.0	+0.3	+0.0	+0.0	21.4	54.6	-33.2	L2-Ne
	Ave		+0.0								
^	176.906k	50.4	+5.8	+0.0	+0.3	+0.0	+0.0	56.5	54.6	+1.9	L2-Ne
			+0.0								
32	358.708k	9.6	+5.8	+0.0	+0.2	+0.0	+0.0	15.6	48.8	-33.2	L2-Ne
	Ave		+0.0								
^	358.708k	42.5	+5.8	+0.0	+0.2	+0.0	+0.0	48.5	48.8	-0.3	L2-Ne
			+0.0								
34	237.992k	12.8	+5.8	+0.0	+0.2	+0.0	+0.0	18.8	52.2	-33.4	L2-Ne
	Ave		+0.0								
^	237.991k	49.0	+5.8	+0.0	+0.2	+0.0	+0.0	55.0	52.2	+2.8	L2-Ne
			+0.0								
36	313.621k	10.5	+5.8	+0.0	+0.1	+0.0	+0.0	16.4	49.9	-33.5	L2-Ne
	Ave		+0.0								
^	313.621k	44.9	+5.8	+0.0	+0.1	+0.0	+0.0	50.8	49.9	+0.9	L2-Ne
			+0.0								
38	325.257k	10.2	+5.8	+0.0	+0.1	+0.0	+0.0	16.1	49.6	-33.5	L2-Ne
	Ave		+0.0								
^	325.256k	43.3	+5.8	+0.0	+0.1	+0.0	+0.0	49.2	49.6	-0.4	L2-Ne
			+0.0								
40	244.537k	12.3	+5.8	+0.0	+0.2	+0.0	+0.0	18.3	51.9	-33.6	L2-Ne
	Ave		+0.0								
^	244.536k	45.3	+5.8	+0.0	+0.2	+0.0	+0.0	51.3	51.9	-0.6	L2-Ne
			+0.0								
42	253.263k	12.0	+5.8	+0.0	+0.1	+0.0	+0.0	17.9	51.6	-33.7	L2-Ne
	Ave		+0.0								
43	253.263k	11.9	+5.8	+0.0	+0.1	+0.0	+0.0	17.8	51.6	-33.8	L2-Ne
	Ave		+0.0								
^	253.263k	45.0	+5.8	+0.0	+0.1	+0.0	+0.0	50.9	51.6	-0.7	L2-Ne
			+0.0								

Test Location: CKC Laboratories Inc. • 110 N. Olinda Pl. • Brea, CA 92823 • 714-993-6112
 Customer: **Itron, Inc.**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **103955** Date: 6/12/2020
 Test Type: **Conducted Emissions** Time: 10:26:42 AM
 Tested By: Don Nguyen Sequence#: 11
 Software: EMITest 5.03.12 120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 4			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 4			

Test Conditions / Notes:

The EUT is placed on test bench. USB port is connected to a touchscreen tablet. The EUT is connected to 12Vdc charger. The computer is sending command to the EUT using software MC3 SuperRaptor Test ver.4.0.3.5. The EUT is set into transmitting mode. Operating frequency: 908MHz (worst case) Frequency of measurement: 150kHz-30MHz RBW=9kHz, VBW=30kHz Site A Temperature: 25°C Relative Humidity: 46% Test Method: ANSI C63.10:2013
