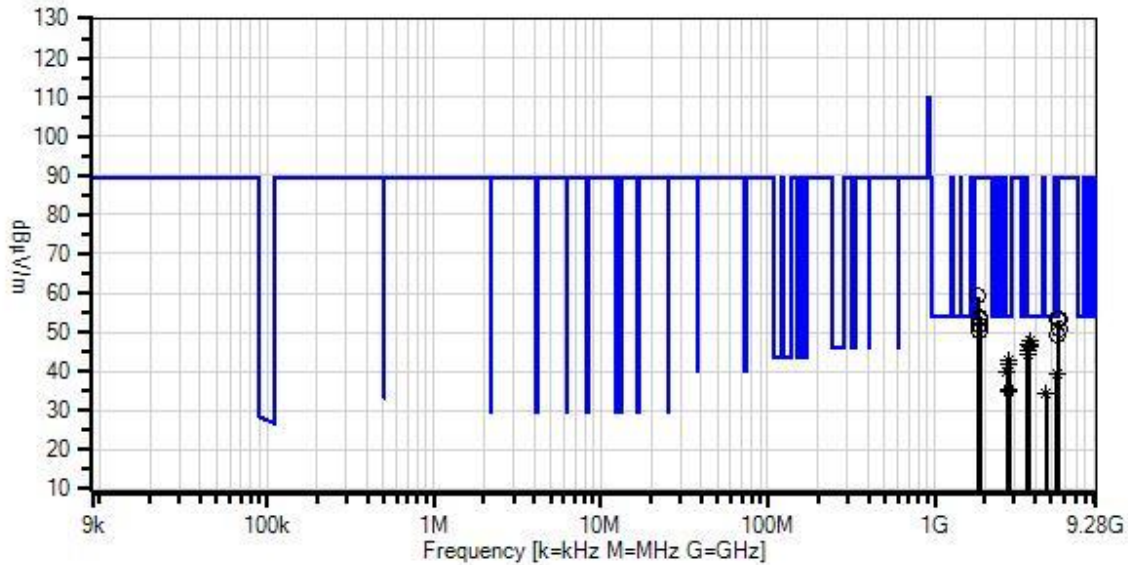


Itron, Inc. WO#: 104621 Sequence#: 16 Date: 1/7/2021  
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



— Readings  
 × QP Readings  
 ▼ Ambient  
 ○ Peak Readings  
 \* Average Readings  
 Software Version: 5.03.19  
 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN00314	Loop Antenna	6502	4/13/2020	4/13/2022
	ANP01911	Cable-Amplitude +15C to +45C (dB)	RG214/U	1/2/2020	1/2/2022
	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
	AN03643	Spectrum Analyzer	E4440A	5/20/2020	5/20/2022
T1	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T2	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022
T3	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T4	ANP07246	Cable	32022-29094K- 29094K-24TC	5/29/2020	5/29/2022
T5	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021
T6	ANDCCF	Duty Cycle Correction Factor		1/1/2021	1/1/2025

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	3707.175M Ave	59.7	-38.1 +0.2	+32.2 -11.0	+4.0	+0.7	+0.0	47.7	54.0	-6.3	Vert
^	3707.175M	59.7	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	58.7	54.0	+4.7	Vert
3	3707.208M Ave	59.0	-38.1 +0.2	+32.2 -11.0	+4.0	+0.7	+0.0	47.0	54.0	-7.0	Horiz
^	3707.208M	59.0	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	58.0	54.0	+4.0	Horiz
5	3659.967M Ave	58.8	-38.1 +0.2	+32.0 -11.0	+4.0	+0.7	+0.0	46.6	54.0	-7.4	Vert
^	3659.967M	58.8	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	57.6	54.0	+3.6	Vert
7	3707.017M Ave	58.3	-38.1 +0.2	+32.2 -11.0	+4.0	+0.7	+0.0	46.3	54.0	-7.7	Horiz
^	3707.017M	58.3	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	57.3	54.0	+3.3	Horiz
9	3660.008M Ave	57.4	-38.1 +0.2	+32.0 -11.0	+4.0	+0.7	+0.0	45.2	54.0	-8.8	Horiz
^	3660.008M	57.4	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	56.2	54.0	+2.2	Horiz
11	3611.992M Ave	57.1	-38.1 +0.1	+31.8 -11.0	+4.0	+0.6	+0.0	44.5	54.0	-9.5	Vert
^	3611.992M	57.1	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	55.5	54.0	+1.5	Vert
13	2780.275M Ave	58.6	-38.5 +0.2	+29.8 -11.0	+3.5	+0.4	+0.0	43.0	54.0	-11.0	Vert
^	2780.275M	58.6	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	54.0	54.0	+0.0	Vert
15	2744.950M Ave	57.5	-38.5 +0.2	+29.7 -11.0	+3.4	+0.4	+0.0	41.7	54.0	-12.3	Vert
^	2744.950M	57.5	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	52.7	54.0	-1.3	Vert
17	2709.017M Ave	55.8	-38.5 +0.2	+29.5 -11.0	+3.4	+0.4	+0.0	39.8	54.0	-14.2	Vert
^	2709.017M	55.8	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	50.8	54.0	-3.2	Vert
19	5417.992M Ave	47.5	-37.2 +0.2	+34.0 -11.0	+5.1	+0.7	+0.0	39.3	54.0	-14.7	Vert
^	5417.992M	47.5	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	50.3	54.0	-3.7	Vert
21	2745.025M Ave	51.4	-38.5 +0.2	+29.7 -11.0	+3.4	+0.4	+0.0	35.6	54.0	-18.4	Horiz
^	2745.025M	51.4	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	46.6	54.0	-7.4	Horiz

23	2780.375M Ave	51.1	-38.5 +0.2	+29.8 -11.0	+3.5	+0.4	+0.0	35.5	54.0	-18.5	Horiz
24	2780.383M Ave	50.7	-38.5 +0.2	+29.8 -11.0	+3.5	+0.4	+0.0	35.1	54.0	-18.9	Horiz
^	2780.375M	51.1	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	46.5	54.0	-7.5	Horiz
^	2780.383M	50.7	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	46.1	54.0	-7.9	Horiz
27	4633.975M Ave	44.6	-37.4 +0.2	+32.7 -11.0	+4.5	+0.7	+0.0	34.3	54.0	-19.7	Vert
^	4633.975M	44.6	-37.4 +0.2	+32.7 +0.0	+4.5	+0.7	+0.0	45.3	54.0	-8.7	Vert
29	1806.017M	67.8	-38.8 +0.2	+26.7 +0.0	+2.8	+0.4	+0.0	59.1	89.6	-30.5	Vert
30	1830.058M	62.3	-38.8 +0.2	+26.9 +0.0	+2.8	+0.4	+0.0	53.8	89.6	-35.8	Vert
31	1853.575M	61.8	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	53.5	89.6	-36.1	Vert
32	5560.775M	50.5	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	53.3	89.6	-36.3	Horiz
33	5560.758M	50.5	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	53.3	89.6	-36.3	Horiz
34	5490.150M	50.3	-37.2 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	53.2	89.6	-36.4	Horiz
35	1830.017M	60.4	-38.8 +0.2	+26.9 +0.0	+2.8	+0.4	+0.0	51.9	89.6	-37.7	Horiz
36	5560.775M	47.9	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	50.7	89.6	-38.9	Vert
37	1853.583M	58.7	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	50.4	89.6	-39.2	Horiz
38	1853.575M	58.7	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	50.4	89.6	-39.2	Horiz
39	5489.967M	46.5	-37.2 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	49.4	89.6	-40.2	Vert

Test Location: CKC Laboratories Inc. • 110 N. Olinda Pl. • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **104622** Date: 1/22/2021  
 Test Type: **Radiated Emissions** Time: 11:51:27  
 Tested By: Don Nguyen Sequence#: 3  
 Software: EMITest 5.03.19

***Equipment Tested:***

Device	Manufacturer	Model #	S/N
Configuration 1			

***Support Equipment:***

Device	Manufacturer	Model #	S/N
Configuration 1			

***Test Conditions / Notes:***

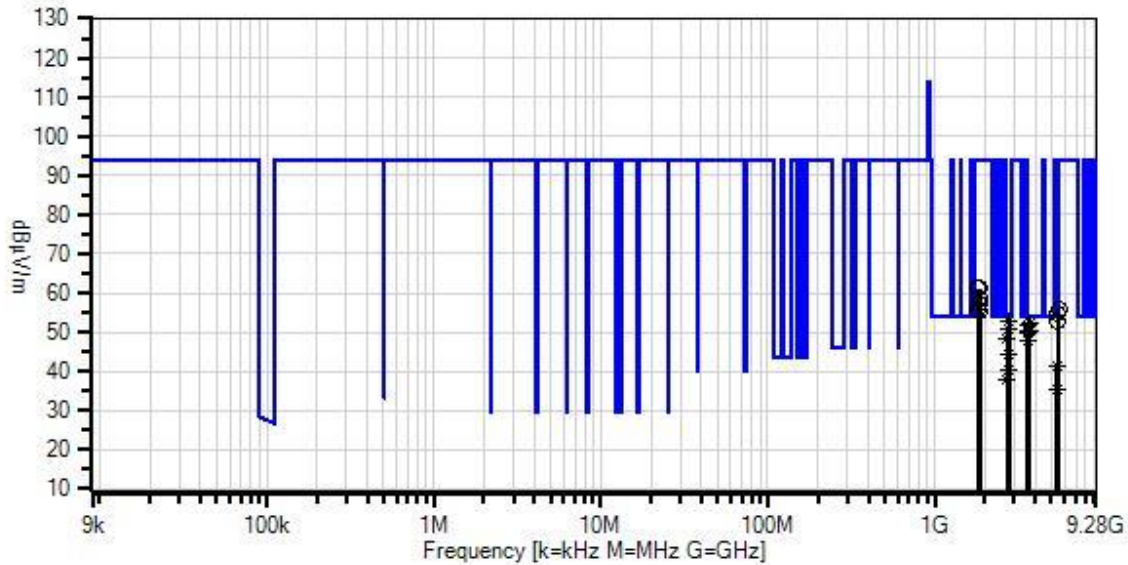
The EUT is placed on Styrofoam platform and powered from 3.6V fresh battery.  
 EUT has fixed orientation per manufacture's specification.  
 Operating frequency range/ mode  
 903 - 926.8MHz, 200kHz steps, 120 channels, 16384 **OOK LV3**  
 Frequency of measurement: 9k-9280MHz  
 9kHz to 150kHz RBW=0.2kHz, VBW=0.6kHz  
 150kHz to 30MHz RBW=9kHz, VBW=27kHz  
 30-1000MHz, RBW=120kHz, VBW=360kHz  
 1000-9280MHz, RBW=1MHz, VBW=3MHz  
 -20dBc limit, RBW=100kHz, VBW=300kHz

Note: The manufacturer declares the worst case duty cycle is 28.05ms per 100ms. Duty cycle correction factor=  
 $20\log(28.05\text{ms}/100\text{ms}) = -11.04\text{dB}$ . Average readings in restricted band are calculated from peak readings with  
 duty cycle correction factor.

Test Method: ANSI C63.10 (2013)  
 Temperature (°C): 24  
 Relative Humidity (%): 30

Modification 1 was in place during testing.

Iron, Inc. WO#: 104622 Sequence#: 3 Date: 1/22/2021  
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Vert



— Readings  
 × QP Readings  
 ▼ Ambient  
 — 1 - 15.247(d) / 15.209 Radiated Spurious Emissions  
 ○ Peak Readings  
 \* Average Readings  
 Software Version: 5.03.19

**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN00314	Loop Antenna	6502	4/13/2020	4/13/2022
	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/21/2020	12/21/2022
	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
T1	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T2	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022
T3	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T4	ANP07246	Cable	32022-29094K- 29094K-24TC	5/29/2020	5/29/2022
T5	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021
T6	AN02869	Spectrum Analyzer	E4440A	8/3/2020	8/3/2021
T7	ANDCCF	Duty Cycle Correction Factor		1/1/2021	1/1/2025

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 T6 dB	T3 T7 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2780.400M Ave	68.2	-38.5 +0.2	+29.8 +0.0	+3.5 -11.0	+0.4	+0.0	52.6	54.0	-1.4	Vert
^	2780.400M	68.2	-38.5 +0.2	+29.8 +0.0	+3.5 +0.0	+0.4	+0.0	63.6	54.0	+9.6	Vert
3	3707.250M Ave	64.5	-38.1 +0.2	+32.2 +0.0	+4.0 -11.0	+0.7	+0.0	52.5	54.0	-1.5	Vert
^	3707.250M	64.5	-38.1 +0.2	+32.2 +0.0	+4.0 +0.0	+0.7	+0.0	63.5	54.0	+9.5	Vert
5	3659.950M Ave	64.0	-38.1 +0.2	+32.0 +0.0	+4.0 -11.0	+0.7	+0.0	51.8	54.0	-2.2	Vert
^	3659.950M	64.0	-38.1 +0.2	+32.0 +0.0	+4.0 +0.0	+0.7	+0.0	62.8	54.0	+8.8	Vert
7	2745.033M Ave	66.7	-38.5 +0.2	+29.7 +0.0	+3.4 -11.0	+0.4	+0.0	50.9	54.0	-3.1	Vert
^	2745.033M	66.7	-38.5 +0.2	+29.7 +0.0	+3.4 +0.0	+0.4	+0.0	61.9	54.0	+7.9	Vert
9	3612.117M Ave	63.0	-38.1 +0.1	+31.8 +0.0	+4.0 -11.0	+0.6	+0.0	50.4	54.0	-3.6	Vert
^	3612.117M	63.0	-38.1 +0.1	+31.8 +0.0	+4.0 +0.0	+0.6	+0.0	61.4	54.0	+7.4	Vert
11	3707.292M Ave	62.1	-38.1 +0.2	+32.2 +0.0	+4.0 -11.0	+0.7	+0.0	50.1	54.0	-3.9	Horiz
^	3707.292M	62.1	-38.1 +0.2	+32.2 +0.0	+4.0 +0.0	+0.7	+0.0	61.1	54.0	+7.1	Horiz
13	3660.133M Ave	62.0	-38.1 +0.2	+32.0 +0.0	+4.0 -11.0	+0.7	+0.0	49.8	54.0	-4.2	Horiz
^	3660.133M	62.0	-38.1 +0.2	+32.0 +0.0	+4.0 +0.0	+0.7	+0.0	60.8	54.0	+6.8	Horiz
15	2708.950M Ave	64.5	-38.5 +0.2	+29.5 +0.0	+3.4 -11.0	+0.4	+0.0	48.5	54.0	-5.5	Vert
^	2708.950M	64.5	-38.5 +0.2	+29.5 +0.0	+3.4 +0.0	+0.4	+0.0	59.5	54.0	+5.5	Vert
17	3612.050M Ave	60.5	-38.1 +0.1	+31.8 +0.0	+4.0 -11.0	+0.6	+0.0	47.9	54.0	-6.1	Horiz
^	3612.050M	60.5	-38.1 +0.1	+31.8 +0.0	+4.0 +0.0	+0.6	+0.0	58.9	54.0	+4.9	Horiz
19	2780.392M Ave	59.9	-38.5 +0.2	+29.8 +0.0	+3.5 -11.0	+0.4	+0.0	44.3	54.0	-9.7	Horiz
^	2780.392M	59.9	-38.5 +0.2	+29.8 +0.0	+3.5 +0.0	+0.4	+0.0	55.3	54.0	+1.3	Horiz
21	5418.100M Ave	49.6	-37.2 +0.2	+34.0 +0.0	+5.1 -11.0	+0.7	+0.0	41.4	54.0	-12.6	Horiz
^	5418.100M	49.6	-37.2 +0.2	+34.0 +0.0	+5.1 +0.0	+0.7	+0.0	52.4	54.0	-1.6	Horiz

23	2745.050M	56.2	-38.5	+29.7	+3.4	+0.4	+0.0	40.4	54.0	-13.6	Horiz
	Ave		+0.2	+0.0	-11.0						
^	2745.050M	56.2	-38.5	+29.7	+3.4	+0.4	+0.0	51.4	54.0	-2.6	Horiz
			+0.2	+0.0	+0.0						
25	2708.983M	54.0	-38.5	+29.5	+3.4	+0.4	+0.0	38.0	54.0	-16.0	Horiz
	Ave		+0.2	+0.0	-11.0						
^	2708.983M	54.0	-38.5	+29.5	+3.4	+0.4	+0.0	49.0	54.0	-5.0	Horiz
			+0.2	+0.0	+0.0						
27	5418.000M	43.4	-37.2	+34.0	+5.1	+0.7	+0.0	35.2	54.0	-18.8	Vert
	Ave		+0.2	+0.0	-11.0						
^	5418.000M	43.4	-37.2	+34.0	+5.1	+0.7	+0.0	46.2	54.0	-7.8	Vert
			+0.2	+0.0	+0.0						
29	1806.000M	69.9	-38.8	+26.7	+2.8	+0.4	+0.0	61.2	93.9	-32.7	Vert
			+0.2	+0.0	+0.0						
30	1853.617M	69.4	-38.8	+27.0	+2.9	+0.4	+0.0	61.1	93.9	-32.8	Vert
			+0.2	+0.0	+0.0						
31	1829.917M	67.2	-38.8	+26.9	+2.8	+0.4	+0.0	58.7	93.9	-35.2	Vert
			+0.2	+0.0	+0.0						
32	1853.550M	65.8	-38.8	+27.0	+2.9	+0.4	+0.0	57.5	93.9	-36.4	Horiz
			+0.2	+0.0	+0.0						
33	5560.675M	53.1	-37.3	+34.1	+5.1	+0.7	+0.0	55.9	93.9	-38.0	Horiz
			+0.2	+0.0	+0.0						
34	1806.067M	64.4	-38.8	+26.7	+2.8	+0.4	+0.0	55.7	93.9	-38.2	Horiz
			+0.2	+0.0	+0.0						
35	1829.950M	63.9	-38.8	+26.9	+2.8	+0.4	+0.0	55.4	93.9	-38.5	Horiz
			+0.2	+0.0	+0.0						
36	5490.017M	51.8	-37.2	+34.1	+5.1	+0.7	+0.0	54.7	93.9	-39.2	Horiz
			+0.2	+0.0	+0.0						
37	5489.983M	49.9	-37.2	+34.1	+5.1	+0.7	+0.0	52.8	93.9	-41.1	Vert
			+0.2	+0.0	+0.0						

Test Location: CKC Laboratories Inc. • 110 N. Olinda Pl. • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **104621** Date: 1/22/2021  
 Test Type: **Radiated Emissions** Time: 10:20:37  
 Tested By: Don Nguyen Sequence#: 10  
 Software: EMITest 5.03.19

**Equipment Tested:**

Device	Manufacturer	Model #	S/N
Configuration 2			

**Support Equipment:**

Device	Manufacturer	Model #	S/N
Configuration 2			

**Test Conditions / Notes:**

The EUT is placed on Styrofoam platform and powered from 3.6V fresh battery. The EUT is connected to a remote located laptop running CLI Tool ver.2.0.1.24.  
 EUT has fixed orientation per manufacture's specification.  
 Operating frequency range/ mode  
 902.4 - 927.6MHz, 400kHz steps, 64 channels, 300k **GFSK LV2/LV3**  
 Frequency of measurement: 9k-9280MHz  
 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  
 -20dBc limit, RBW=100kHz, VBW=300kHz

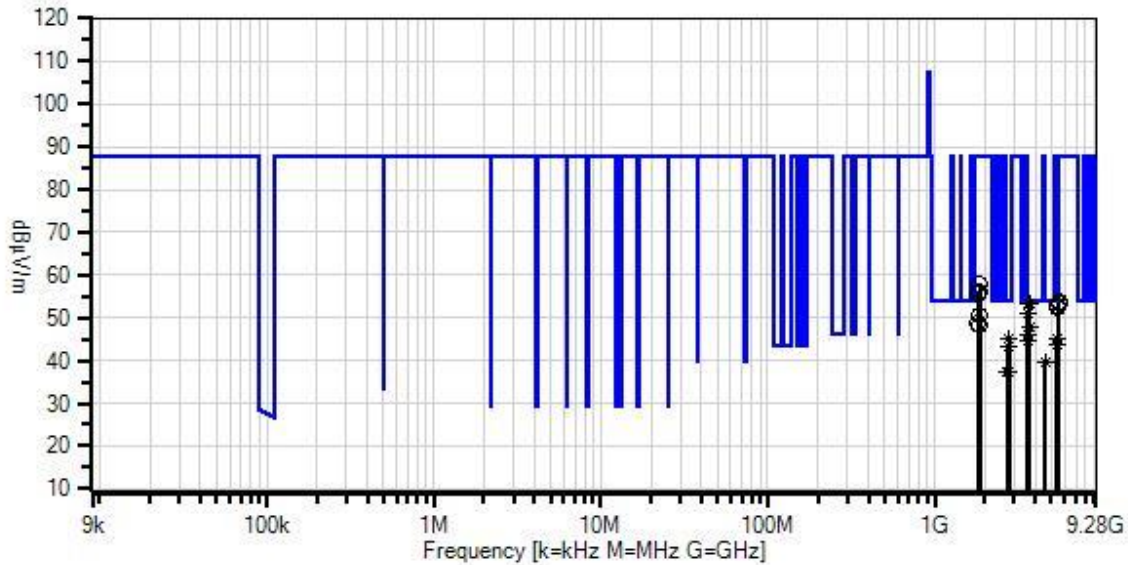
Note: The manufacturer declares the worst case duty cycle is 45ms per 100ms. Duty cycle correction factor= $20\log(45\text{ms}/100\text{ms}) = -6.9\text{dB}$ . Average readings in restricted band are calculated from peak readings with duty cycle correction factor.

Test Method: ANSI C63.10 (2013)  
 Temperature (°C): 24  
 Relative Humidity (%): 30

Modification 1 was in place during testing.



Iron, Inc. WO#: 104621 Sequence#: 10 Date: 1/22/2021  
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Vert



— Readings  
 × QP Readings  
 ▼ Ambient  
 ○ Peak Readings  
 \* Average Readings  
 Software Version: 5.03.19  
 — 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN00314	Loop Antenna	6502	4/13/2020	4/13/2022
	ANP01911	Cable-Amplitude +15C to +45C (dB)	RG214/U	1/2/2020	1/2/2022
	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
T1	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T2	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022
T3	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T4	ANP07246	Cable	32022-29094K- 29094K-24TC	5/29/2020	5/29/2022
T5	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021
	AN02869	Spectrum Analyzer	E4440A	8/3/2020	8/3/2021
T6	ANDCCF	Duty Cycle Correction Factor		1/1/2021	1/1/2025

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	3661.067M Ave	61.7	-38.1 +0.2	+32.0 -7.0	+4.0	+0.7	+0.0	53.5	54.0	-0.5	Vert
^	3661.067M	61.7	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	60.5	54.0	+6.5	Vert
3	3710.617M Ave	61.1	-38.1 +0.2	+32.2 -7.0	+4.0	+0.7	+0.0	53.1	54.0	-0.9	Vert
^	3710.617M	61.1	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	60.1	54.0	+6.1	Vert
5	3609.833M Ave	59.6	-38.1 +0.1	+31.8 -7.0	+4.0	+0.6	+0.0	51.0	54.0	-3.0	Vert
^	3609.833M	59.6	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	58.0	54.0	+4.0	Vert
7	3710.067M Ave	56.0	-38.1 +0.2	+32.2 -7.0	+4.0	+0.7	+0.0	48.0	54.0	-6.0	Horiz
^	3710.067M	56.0	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	55.0	54.0	+1.0	Horiz
9	3660.400M Ave	54.0	-38.1 +0.2	+32.0 -7.0	+4.0	+0.7	+0.0	45.8	54.0	-8.2	Horiz
^	3660.400M	54.0	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	52.8	54.0	-1.2	Horiz
11	2782.733M Ave	56.6	-38.5 +0.2	+29.8 -7.0	+3.5	+0.4	+0.0	45.0	54.0	-9.0	Vert
^	2782.733M	56.6	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	52.0	54.0	-2.0	Vert
13	5413.750M Ave	49.1	-37.2 +0.2	+34.0 -7.0	+5.1	+0.7	+0.0	44.9	54.0	-9.1	Horiz
^	5413.750M	49.1	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	51.9	54.0	-2.1	Horiz
15	3609.933M Ave	53.3	-38.1 +0.1	+31.8 -7.0	+4.0	+0.6	+0.0	44.7	54.0	-9.3	Horiz
^	3609.933M	53.3	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	51.7	54.0	-2.3	Horiz
17	5414.483M Ave	47.8	-37.2 +0.2	+34.0 -7.0	+5.1	+0.7	+0.0	43.6	54.0	-10.4	Vert
^	5414.483M	47.8	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	50.6	54.0	-3.4	Vert
19	2745.750M Ave	55.1	-38.5 +0.2	+29.7 -7.0	+3.4	+0.4	+0.0	43.3	54.0	-10.7	Vert
^	2745.750M	55.1	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	50.3	54.0	-3.7	Vert
21	4576.167M Ave	46.0	-37.4 +0.2	+32.6 -7.0	+4.5	+0.6	+0.0	39.5	54.0	-14.5	Vert
^	4576.167M	46.0	-37.4 +0.2	+32.6 +0.0	+4.5	+0.6	+0.0	46.5	54.0	-7.5	Vert

23	2782.750M Ave	49.0	-38.5 +0.2	+29.8 -7.0	+3.5	+0.4	+0.0	37.4	54.0	-16.6	Horiz
^	2782.750M	49.0	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	44.4	54.0	-9.6	Horiz
25	2707.250M Ave	49.3	-38.5 +0.2	+29.5 -7.0	+3.4	+0.4	+0.0	37.3	54.0	-16.7	Vert
^	2707.250M	49.3	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	44.3	54.0	-9.7	Vert
27	2745.750M Ave	49.0	-38.5 +0.2	+29.7 -7.0	+3.4	+0.4	+0.0	37.2	54.0	-16.8	Horiz
^	2745.750M	49.0	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	44.2	54.0	-9.8	Horiz
29	1855.000M	66.2	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	57.9	87.6	-29.7	Vert
30	1830.350M	64.5	-38.8 +0.2	+26.9 +0.0	+2.8	+0.4	+0.0	56.0	87.6	-31.6	Vert
31	1804.850M	64.1	-38.8 +0.2	+26.7 +0.0	+2.8	+0.4	+0.0	55.4	87.6	-32.2	Vert
32	5565.200M	50.8	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	53.6	87.6	-34.0	Vert
33	5565.883M	50.4	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	53.2	87.6	-34.4	Horiz
34	5491.283M	50.2	-37.2 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	53.1	87.6	-34.5	Vert
35	5491.450M	49.3	-37.2 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	52.2	87.6	-35.4	Horiz
36	1830.417M	59.0	-38.8 +0.2	+26.9 +0.0	+2.8	+0.4	+0.0	50.5	87.6	-37.1	Horiz
37	1805.000M	57.6	-38.8 +0.2	+26.7 +0.0	+2.8	+0.4	+0.0	48.9	87.6	-38.7	Horiz
38	1855.383M	56.5	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	48.2	87.6	-39.4	Horiz

Test Location: CKC Laboratories Inc. • 110 N. Olinda Pl. • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **104621** Date: 12/30/2020  
 Test Type: **Radiated Emissions** Time: 15:40:55  
 Tested By: Don Nguyen Sequence#: 9  
 Software: EMITest 5.03.19

**Equipment Tested:**

Device	Manufacturer	Model #	S/N
Configuration 2			

**Support Equipment:**

Device	Manufacturer	Model #	S/N
Configuration 2			

**Test Conditions / Notes:**

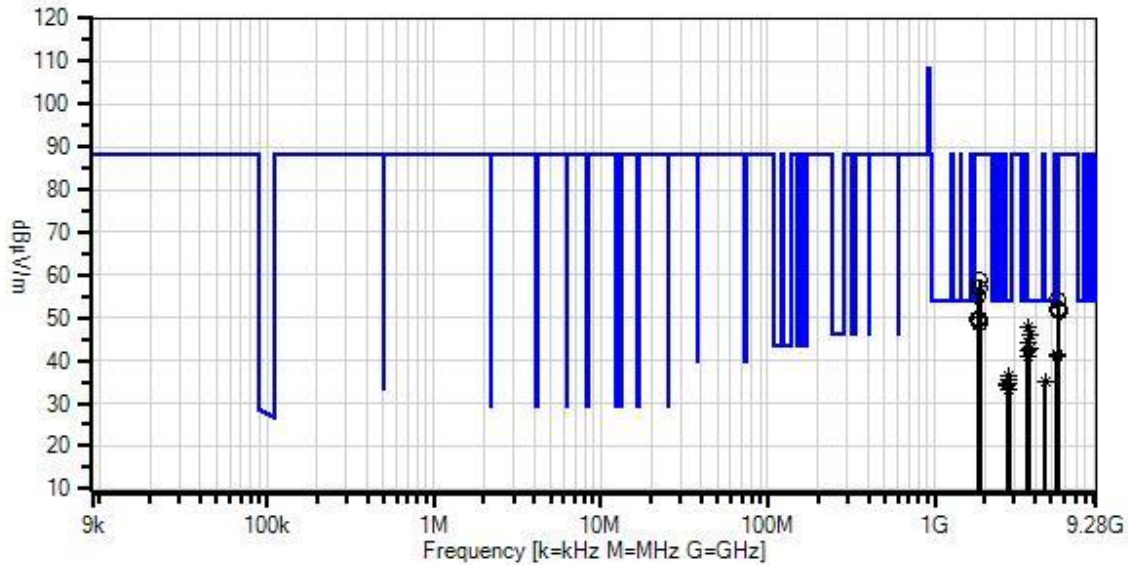
The EUT is placed on Styrofoam platform and powered from 3.6V fresh battery. The EUT is connected to a remote located laptop running CLI Tool ver.2.0.1.24.  
 EUT has fixed orientation per manufacture's specification.  
 Operating frequency range/ mode  
 903 - 926.8MHz, 200kHz steps, 120 channels, 16384 **OOK LV1**  
 Frequency of measurement: 9k-9280MHz  
 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  
 -20dBc limit, RBW=100kHz, VBW=300kHz

Note: The manufacturer declares the worst case duty cycle is 28.05ms per 100ms. Duty cycle correction factor= $20\log(28.05\text{ms}/100\text{ms}) = -11.04\text{dB}$ . Average readings in restricted band are calculated from peak readings with duty cycle correction factor.

Test Method: ANSI C63.10 (2013)  
 Temperature (°C): 24  
 Relative Humidity (%): 30

Modification 1 was in place during testing.

Iron, Inc. WO#: 104621 Sequence#: 9 Date: 12/30/2020  
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Vert



— Readings  
 × QP Readings  
 ▼ Ambient  
 ○ Peak Readings  
 \* Average Readings  
 Software Version: 5.03.19  
 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN00314	Loop Antenna	6502	4/13/2020	4/13/2022
	ANP01911	Cable-Amplitude +15C to +45C (dB)	RG214/U	1/2/2020	1/2/2022
	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
	AN03643	Spectrum Analyzer	E4440A	5/20/2020	5/20/2022
T1	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T2	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022
T3	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T4	ANP07246	Cable	32022-29094K- 29094K-24TC	5/29/2020	5/29/2022
T5	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021
T6	ANDCCF	Duty Cycle Correction Factor		1/1/2021	1/1/2025

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	3660.000M Ave	60.0	-38.1 +0.2	+32.0 -11.0	+4.0	+0.7	+0.0	47.8	54.0	-6.2	Vert
^	3660.000M	60.0	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	58.8	54.0	+4.8	Vert
3	3707.192M Ave	57.9	-38.1 +0.2	+32.2 -11.0	+4.0	+0.7	+0.0	45.9	54.0	-8.1	Vert
^	3707.192M	57.9	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	56.9	54.0	+2.9	Vert
5	3611.992M Ave	56.9	-38.1 +0.1	+31.8 -11.0	+4.0	+0.6	+0.0	44.3	54.0	-9.7	Vert
^	3611.992M	56.9	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	55.3	54.0	+1.3	Vert
7	3707.192M Ave	54.9	-38.1 +0.2	+32.2 -11.0	+4.0	+0.7	+0.0	42.9	54.0	-11.1	Horiz
^	3707.192M	54.9	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	53.9	54.0	-0.1	Horiz
9	3659.992M Ave	54.5	-38.1 +0.2	+32.0 -11.0	+4.0	+0.7	+0.0	42.3	54.0	-11.7	Horiz
^	3659.992M	54.5	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	53.3	54.0	-0.7	Horiz
11	5418.000M Ave	49.6	-37.2 +0.2	+34.0 -11.0	+5.1	+0.7	+0.0	41.4	54.0	-12.6	Horiz
^	5418.000M	49.6	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	52.4	54.0	-1.6	Horiz
13	5417.992M Ave	49.2	-37.2 +0.2	+34.0 -11.0	+5.1	+0.7	+0.0	41.0	54.0	-13.0	Vert
^	5417.992M	49.2	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	52.0	54.0	-2.0	Vert
15	3612.000M Ave	53.5	-38.1 +0.1	+31.8 -11.0	+4.0	+0.6	+0.0	40.9	54.0	-13.1	Horiz
^	3612.000M	53.5	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	51.9	54.0	-2.1	Horiz
17	2780.392M Ave	52.2	-38.5 +0.2	+29.8 -11.0	+3.5	+0.4	+0.0	36.6	54.0	-17.4	Vert
^	2780.392M	52.2	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	47.6	54.0	-6.4	Vert
19	2780.392M Ave	51.0	-38.5 +0.2	+29.8 -11.0	+3.5	+0.4	+0.0	35.4	54.0	-18.6	Horiz
^	2780.392M	51.0	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	46.4	54.0	-7.6	Horiz

21	4574.992M Ave	45.4	-37.4 +0.2	+32.6 -11.0	+4.5	+0.6	+0.0	34.9	54.0	-19.1	Horiz
^	4574.992M	45.4	-37.4 +0.2	+32.6 +0.0	+4.5	+0.6	+0.0	45.9	54.0	-8.1	Horiz
23	2745.000M Ave	50.6	-38.5 +0.2	+29.7 -11.0	+3.4	+0.4	+0.0	34.8	54.0	-19.2	Vert
^	2745.000M	50.6	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	45.8	54.0	-8.2	Vert
25	2708.992M Ave	50.6	-38.5 +0.2	+29.5 -11.0	+3.4	+0.4	+0.0	34.6	54.0	-19.4	Vert
^	2708.992M	50.6	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	45.6	54.0	-8.4	Vert
27	2709.000M Ave	50.3	-38.5 +0.2	+29.5 -11.0	+3.4	+0.4	+0.0	34.3	54.0	-19.7	Horiz
^	2709.000M	50.3	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	45.3	54.0	-8.7	Horiz
29	2744.992M Ave	49.1	-38.5 +0.2	+29.7 -11.0	+3.4	+0.4	+0.0	33.3	54.0	-20.7	Horiz
^	2744.992M	49.1	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	44.3	54.0	-9.7	Horiz
31	1853.592M	66.9	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	58.6	88.2	-29.6	Vert
32	1830.000M	65.2	-38.8 +0.2	+26.9 +0.0	+2.8	+0.4	+0.0	56.7	88.2	-31.5	Vert
33	1805.992M	63.6	-38.8 +0.2	+26.7 +0.0	+2.8	+0.4	+0.0	54.9	88.2	-33.3	Vert
34	5489.992M	51.1	-37.2 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	54.0	88.2	-34.2	Horiz
35	5490.000M	49.3	-37.2 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	52.2	88.2	-36.0	Vert
36	5560.792M	49.1	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	51.9	88.2	-36.3	Vert
37	5560.792M	48.5	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	51.3	88.2	-36.9	Horiz
38	1806.000M	58.4	-38.8 +0.2	+26.7 +0.0	+2.8	+0.4	+0.0	49.7	88.2	-38.5	Horiz
39	1853.592M	57.8	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	49.5	88.2	-38.7	Horiz
40	1829.992M	57.3	-38.8 +0.2	+26.9 +0.0	+2.8	+0.4	+0.0	48.8	88.2	-39.4	Horiz

Test Location: CKC Laboratories Inc. • 110 N. Olinda Pl. • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **104622** Date: 1/22/2021  
 Test Type: **Radiated Emissions** Time: 11:05:54  
 Tested By: Don Nguyen Sequence#: 2  
 Software: EMITest 5.03.19

***Equipment Tested:***

Device	Manufacturer	Model #	S/N
Configuration 2			

***Support Equipment:***

Device	Manufacturer	Model #	S/N
Configuration 2			

***Test Conditions / Notes:***

The EUT is placed on Styrofoam platform and powered from 3.6V fresh battery.  
 EUT has fixed orientation per manufacture's specification.  
 Operating frequency range/ mode  
 903 - 926.8MHz, 200kHz steps, 120 channels, 16384 **OOK LV3**  
 Frequency of measurement: 9k-9280MHz  
 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  
 -20dBc limit, RBW=100kHz, VBW=300kHz

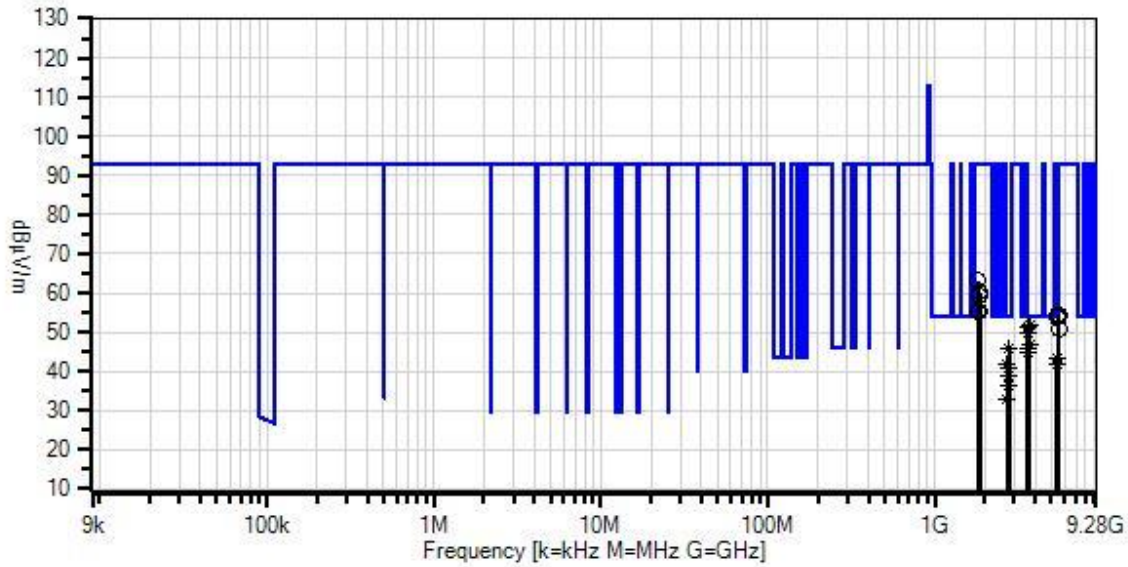
Note: The manufacturer declares the worst case duty cycle is 28.05ms per 100ms. Duty cycle correction factor=  
 $20\log(28.05\text{ms}/100\text{ms}) = -11.04\text{dB}$ . Average readings in restricted band are calculated from peak readings with  
 duty cycle correction factor.

Test Method: ANSI C63.10 (2013)  
 Temperature (°C): 24  
 Relative Humidity (%): 30

Modification 1 was in place during testing.



Itron, Inc. WO#: 104622 Sequence#: 2 Date: 1/22/2021  
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



- Readings
  - × QP Readings
  - ▼ Ambient
  - 1 - 15.247(d) / 15.209 Radiated Spurious Emissions
  - Peak Readings
  - \* Average Readings
- Software Version: 5.03.19

**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN00314	Loop Antenna	6502	4/13/2020	4/13/2022
	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/21/2020	12/21/2022
	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
T1	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T2	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022
T3	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T4	ANP07246	Cable	32022-29094K- 29094K-24TC	5/29/2020	5/29/2022
T5	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021
	AN02869	Spectrum Analyzer	E4440A	8/3/2020	8/3/2021
T6	ANDCCF	Duty Cycle Correction Factor		1/1/2021	1/1/2025

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	3707.250M Ave	63.6	-38.1 +0.2	+32.2 -11.0	+4.0	+0.7	+0.0	51.6	54.0	-2.4	Vert
^	3707.250M	63.6	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	62.6	54.0	+8.6	Vert
3	3660.000M Ave	63.6	-38.1 +0.2	+32.0 -11.0	+4.0	+0.7	+0.0	51.4	54.0	-2.6	Vert
^	3660.000M	63.6	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	62.4	54.0	+8.4	Vert
5	3611.900M Ave	62.3	-38.1 +0.1	+31.8 -11.0	+4.0	+0.6	+0.0	49.7	54.0	-4.3	Vert
^	3611.900M	62.3	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	60.7	54.0	+6.7	Vert
7	3707.150M Ave	59.0	-38.1 +0.2	+32.2 -11.0	+4.0	+0.7	+0.0	47.0	54.0	-7.0	Horiz
^	3707.150M	59.0	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	58.0	54.0	+4.0	Horiz
9	2780.517M Ave	61.4	-38.5 +0.2	+29.8 -11.0	+3.5	+0.4	+0.0	45.8	54.0	-8.2	Vert
^	2780.517M	61.4	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	56.8	54.0	+2.8	Vert
11	3660.017M Ave	58.0	-38.1 +0.2	+32.0 -11.0	+4.0	+0.7	+0.0	45.8	54.0	-8.2	Horiz
^	3660.017M	58.0	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	56.8	54.0	+2.8	Horiz
13	3611.900M Ave	57.3	-38.1 +0.1	+31.8 -11.0	+4.0	+0.6	+0.0	44.7	54.0	-9.3	Horiz
^	3611.900M	57.3	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	55.7	54.0	+1.7	Horiz
15	5418.033M Ave	51.4	-37.2 +0.2	+34.0 -11.0	+5.1	+0.7	+0.0	43.2	54.0	-10.8	Horiz
^	5418.033M	51.4	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	54.2	54.0	+0.2	Horiz
17	2709.033M Ave	58.0	-38.5 +0.2	+29.5 -11.0	+3.4	+0.4	+0.0	42.0	54.0	-12.0	Vert
^	2709.033M	58.0	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	53.0	54.0	-1.0	Vert
19	5417.983M Ave	50.0	-37.2 +0.2	+34.0 -11.0	+5.1	+0.7	+0.0	41.8	54.0	-12.2	Vert
^	5417.983M	50.0	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	52.8	54.0	-1.2	Vert

21	2744.867M Ave	56.8	-38.5 +0.2	+29.7 -11.0	+3.4	+0.4	+0.0	41.0	54.0	-13.0	Vert
^	2744.867M	56.8	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	52.0	54.0	-2.0	Vert
23	2780.350M Ave	54.6	-38.5 +0.2	+29.8 -11.0	+3.5	+0.4	+0.0	39.0	54.0	-15.0	Horiz
^	2780.350M	54.6	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	50.0	54.0	-4.0	Horiz
25	2744.983M Ave	52.3	-38.5 +0.2	+29.7 -11.0	+3.4	+0.4	+0.0	36.5	54.0	-17.5	Horiz
^	2744.983M	52.3	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	47.5	54.0	-6.5	Horiz
27	2708.950M Ave	49.0	-38.5 +0.2	+29.5 -11.0	+3.4	+0.4	+0.0	33.0	54.0	-21.0	Horiz
^	2708.950M	49.0	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	44.0	54.0	-10.0	Horiz
29	1806.033M	71.7	-38.8 +0.2	+26.7 +0.0	+2.8	+0.4	+0.0	63.0	93.0	-30.0	Vert
30	1853.600M	68.4	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	60.1	93.0	-32.9	Vert
31	1830.033M	67.9	-38.8 +0.2	+26.9 +0.0	+2.8	+0.4	+0.0	59.4	93.0	-33.6	Vert
32	1853.533M	63.6	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	55.3	93.0	-37.7	Horiz
33	1805.933M	64.0	-38.8 +0.2	+26.7 +0.0	+2.8	+0.4	+0.0	55.3	93.0	-37.7	Horiz
34	1830.017M	63.6	-38.8 +0.2	+26.9 +0.0	+2.8	+0.4	+0.0	55.1	93.0	-37.9	Horiz
35	5560.833M	51.6	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	54.4	93.0	-38.6	Vert
36	5490.167M	51.4	-37.2 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	54.3	93.0	-38.7	Horiz
37	5489.883M	50.9	-37.2 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	53.8	93.0	-39.2	Vert
38	5560.783M	48.2	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	51.0	93.0	-42.0	Horiz

Test Location: CKC Laboratories Inc. • 110 N. Olinda Pl. • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **104621** Date: 1/22/2021  
 Test Type: **Radiated Emissions** Time: 13:23:43  
 Tested By: Don Nguyen Sequence#: 12  
 Software: EMITest 5.03.19

**Equipment Tested:**

Device	Manufacturer	Model #	S/N
Configuration 3			

**Support Equipment:**

Device	Manufacturer	Model #	S/N
Configuration 3			

**Test Conditions / Notes:**

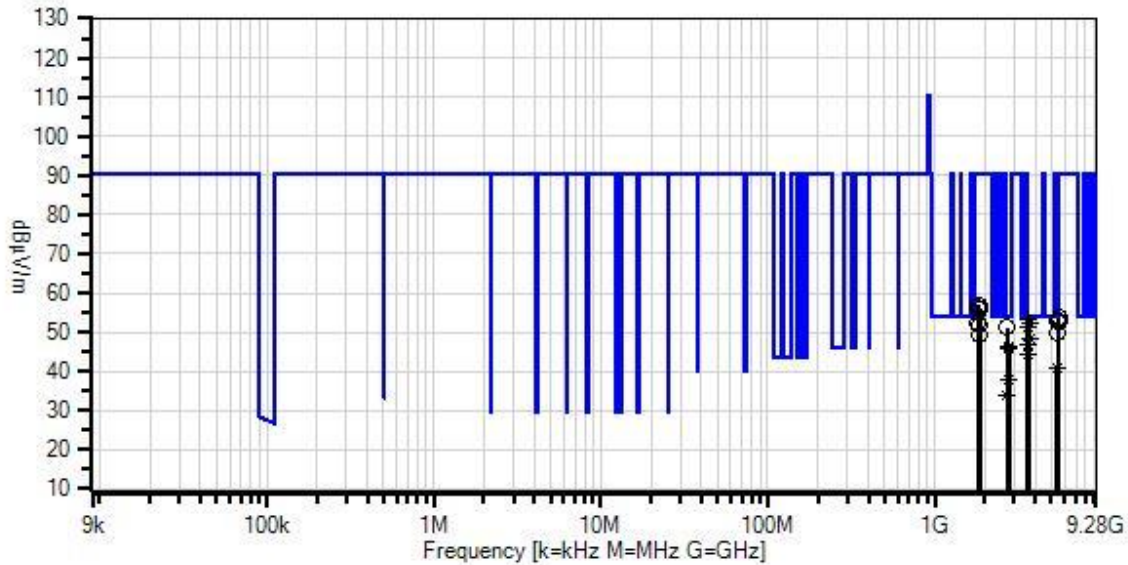
The EUT is placed on Styrofoam platform and powered from 3.6V fresh battery. The EUT is connected to a remote located laptop running CLI Tool ver.2.0.1.24.  
 EUT has fixed orientation per manufacture's specification.  
 Operating frequency range/ mode  
 902.4 - 927.6MHz, 400kHz steps, 64 channels, 300k **GFSK LV2/LV3**  
 Frequency of measurement: 9k-9280MHz  
 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  
 -20dBc limit, RBW=100kHz, VBW=300kHz

Note: The manufacturer declares the worst case duty cycle is 45ms per 100ms. Duty cycle correction factor=  
 $20\log(45\text{ms}/100\text{ms}) = -6.9\text{dB}$ . Average readings in restricted band are calculated from peak readings with duty cycle correction factor.

Test Method: ANSI C63.10 (2013)  
 Temperature (°C): 24  
 Relative Humidity (%): 30

Modification 1 was in place during testing.

Iron, Inc. WO#: 104621 Sequence#: 12 Date: 1/22/2021  
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Vert



— Readings  
 × QP Readings  
 ▼ Ambient  
 ○ Peak Readings  
 \* Average Readings  
 Software Version: 5.03.19  
 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN00314	Loop Antenna	6502	4/13/2020	4/13/2022
	ANP01911	Cable-Amplitude +15C to +45C (dB)	RG214/U	1/2/2020	1/2/2022
	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
	AN03643	Spectrum Analyzer	E4440A	5/20/2020	5/20/2022
T1	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T2	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022
T3	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T4	ANP07246	Cable	32022-29094K- 29094K-24TC	5/29/2020	5/29/2022
T5	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021
T6	ANDCCF	Duty Cycle Correction Factor		1/1/2021	1/1/2025

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	3660.517M Ave	61.3	-38.1 +0.2	+32.0 -7.0	+4.0	+0.7	+0.0	53.1	54.0	-0.9	Vert
^	3660.517M	61.3	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	60.1	54.0	+6.1	Vert
3	3710.733M Ave	60.2	-38.1 +0.2	+32.2 -7.0	+4.0	+0.7	+0.0	52.2	54.0	-1.8	Vert
^	3710.733M	60.2	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	59.2	54.0	+5.2	Vert
5	2707.450M	56.3	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	51.3	54.0	-2.7	Vert
6	2707.450M	56.3	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	51.3	54.0	-2.7	Vert
7	3609.467M Ave	59.8	-38.1 +0.1	+31.8 -7.0	+4.0	+0.6	+0.0	51.2	54.0	-2.8	Vert
^	3609.467M	59.8	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	58.2	54.0	+4.2	Vert
9	3710.200M Ave	56.4	-38.1 +0.2	+32.2 -7.0	+4.0	+0.7	+0.0	48.4	54.0	-5.6	Horiz
^	3710.200M	56.4	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	55.4	54.0	+1.4	Horiz
11	3660.750M Ave	54.8	-38.1 +0.2	+32.0 -7.0	+4.0	+0.7	+0.0	46.6	54.0	-7.4	Horiz
^	3660.750M	54.8	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	53.6	54.0	-0.4	Horiz
13	2783.017M Ave	58.1	-38.5 +0.2	+29.8 -7.0	+3.5	+0.4	+0.0	46.5	54.0	-7.5	Vert
^	2783.017M	58.1	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	53.5	54.0	-0.5	Vert
15	2745.533M Ave	57.6	-38.5 +0.2	+29.7 -7.0	+3.4	+0.4	+0.0	45.8	54.0	-8.2	Vert
^	2745.533M	57.6	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	52.8	54.0	-1.2	Vert
17	3609.300M Ave	52.9	-38.1 +0.1	+31.8 -7.0	+4.0	+0.6	+0.0	44.3	54.0	-9.7	Horiz
^	3609.300M	52.9	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	51.3	54.0	-2.7	Horiz
19	5414.267M Ave	45.3	-37.2 +0.2	+34.0 -7.0	+5.1	+0.7	+0.0	41.1	54.0	-12.9	Vert
^	5414.267M	45.3	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	48.1	54.0	-5.9	Vert
21	2783.083M Ave	49.5	-38.5 +0.2	+29.8 -7.0	+3.5	+0.4	+0.0	37.9	54.0	-16.1	Horiz
^	2783.083M	49.5	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	44.9	54.0	-9.1	Horiz

23	2745.467M	49.6	-38.5	+29.7	+3.4	+0.4	+0.0	37.8	54.0	-16.2	Horiz
	Ave		+0.2	-7.0							
^	2745.467M	49.6	-38.5	+29.7	+3.4	+0.4	+0.0	44.8	54.0	-9.2	Horiz
			+0.2	+0.0							
25	2707.183M	46.0	-38.5	+29.5	+3.4	+0.4	+0.0	34.0	54.0	-20.0	Horiz
	Ave		+0.2	-7.0							
^	2707.183M	46.0	-38.5	+29.5	+3.4	+0.4	+0.0	41.0	54.0	-13.0	Horiz
			+0.2	+0.0							
27	1830.750M	65.5	-38.8	+26.9	+2.8	+0.4	+0.0	57.0	90.5	-33.5	Vert
			+0.2	+0.0							
28	1804.667M	64.9	-38.8	+26.7	+2.8	+0.4	+0.0	56.2	90.5	-34.3	Vert
			+0.2	+0.0							
29	1855.300M	64.2	-38.8	+27.0	+2.9	+0.4	+0.0	55.9	90.5	-34.6	Vert
			+0.2	+0.0							
30	5564.883M	50.8	-37.3	+34.1	+5.1	+0.7	+0.0	53.6	90.5	-36.9	Vert
			+0.2	+0.0							
31	5566.117M	50.1	-37.3	+34.1	+5.1	+0.7	+0.0	52.9	90.5	-37.6	Horiz
			+0.2	+0.0							
32	5490.650M	49.8	-37.2	+34.1	+5.1	+0.7	+0.0	52.7	90.5	-37.8	Vert
			+0.2	+0.0							
33	1804.783M	60.9	-38.8	+26.7	+2.8	+0.4	+0.0	52.2	90.5	-38.3	Horiz
			+0.2	+0.0							
34	1855.117M	60.0	-38.8	+27.0	+2.9	+0.4	+0.0	51.7	90.5	-38.8	Horiz
			+0.2	+0.0							
35	5490.883M	46.8	-37.2	+34.1	+5.1	+0.7	+0.0	49.7	90.5	-40.8	Horiz
			+0.2	+0.0							
36	1830.383M	57.7	-38.8	+26.9	+2.8	+0.4	+0.0	49.2	90.5	-41.3	Horiz
			+0.2	+0.0							

Test Location: CKC Laboratories Inc. • 110 N. Olinda Pl. • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **104621** Date: 12/31/2020  
 Test Type: **Radiated Emissions** Time: 10:39:01  
 Tested By: Don Nguyen Sequence#: 13  
 Software: EMITest 5.03.19

**Equipment Tested:**

Device	Manufacturer	Model #	S/N
Configuration 3			

**Support Equipment:**

Device	Manufacturer	Model #	S/N
Configuration 3			

**Test Conditions / Notes:**

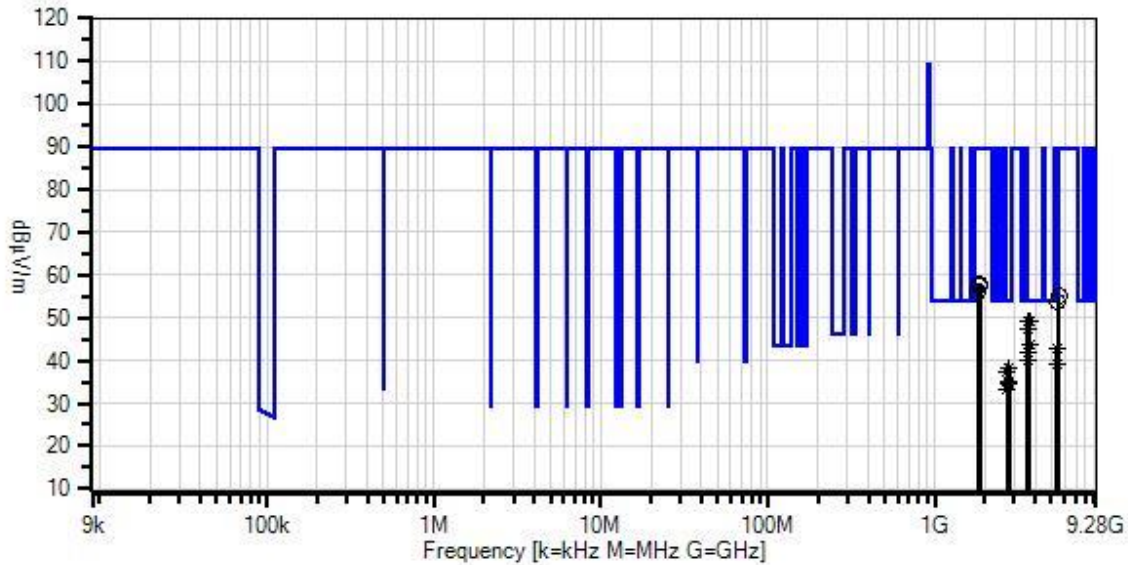
The EUT is placed on Styrofoam platform and powered from 3.6V fresh battery. The EUT is connected to a remote located laptop running CLI Tool ver.2.0.1.24.  
 EUT has fixed orientation per manufacture's specification.  
 Operating frequency range/ mode  
 903 - 926.8MHz, 200kHz steps, 120 channels, 16384 **OOK LV1**  
 Frequency of measurement: 9k-9280MHz  
 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  
 -20dBc limit, RBW=100kHz, VBW=300kHz

Note: The manufacturer declares the worst case duty cycle is 28.05ms per 100ms. Duty cycle correction factor= $20\log(28.05\text{ms}/100\text{ms}) = -11.04\text{dB}$ . Average readings in restricted band are calculated from peak readings with duty cycle correction factor.

Test Method: ANSI C63.10 (2013)  
 Temperature (°C): 24  
 Relative Humidity (%): 30  
 Modification 1 was in place during testing.



Iron, Inc. WO#: 104621 Sequence#: 13 Date: 12/31/2020  
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Vert



— Readings  
 × QP Readings  
 ▼ Ambient  
 ○ Peak Readings  
 \* Average Readings  
 Software Version: 5.03.19  
 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN00314	Loop Antenna	6502	4/13/2020	4/13/2022
	ANP01911	Cable-Amplitude +15C to +45C (dB)	RG214/U	1/2/2020	1/2/2022
	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
	AN03643	Spectrum Analyzer	E4440A	5/20/2020	5/20/2022
T1	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T2	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022
T3	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T4	ANP07246	Cable	32022-29094K- 29094K-24TC	5/29/2020	5/29/2022
T5	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021
T6	ANDCCF	Duty Cycle Correction Factor		1/1/2021	1/1/2025

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	3660.000M Ave	61.4	-38.1 +0.2	+32.0 -11.0	+4.0	+0.7	+0.0	49.2	54.0	-4.8	Vert
^	3660.000M	61.4	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	60.2	54.0	+6.2	Vert
3	3707.200M Ave	61.0	-38.1 +0.2	+32.2 -11.0	+4.0	+0.7	+0.0	49.0	54.0	-5.0	Vert
^	3707.200M	61.0	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	60.0	54.0	+6.0	Vert
5	3612.000M Ave	60.1	-38.1 +0.1	+31.8 -11.0	+4.0	+0.6	+0.0	47.5	54.0	-6.5	Vert
^	3612.000M	60.1	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	58.5	54.0	+4.5	Vert
7	3707.183M Ave	55.8	-38.1 +0.2	+32.2 -11.0	+4.0	+0.7	+0.0	43.8	54.0	-10.2	Horiz
^	3707.183M	55.8	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	54.8	54.0	+0.8	Horiz
9	5418.000M Ave	50.8	-37.2 +0.2	+34.0 -11.0	+5.1	+0.7	+0.0	42.6	54.0	-11.4	Vert
^	5418.000M	50.8	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	53.6	54.0	-0.4	Vert
11	3659.983M Ave	54.0	-38.1 +0.2	+32.0 -11.0	+4.0	+0.7	+0.0	41.8	54.0	-12.2	Horiz
^	3659.983M	54.0	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	52.8	54.0	-1.2	Horiz
13	3612.042M Ave	52.7	-38.1 +0.1	+31.8 -11.0	+4.0	+0.6	+0.0	40.1	54.0	-13.9	Horiz
^	3612.042M	52.7	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	51.1	54.0	-2.9	Horiz
15	5418.042M Ave	47.2	-37.2 +0.2	+34.0 -11.0	+5.1	+0.7	+0.0	39.0	54.0	-15.0	Horiz
^	5418.042M	47.2	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	50.0	54.0	-4.0	Horiz
17	2745.000M Ave	53.9	-38.5 +0.2	+29.7 -11.0	+3.4	+0.4	+0.0	38.1	54.0	-15.9	Vert
^	2745.000M	53.9	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	49.1	54.0	-4.9	Vert
19	2780.400M Ave	53.7	-38.5 +0.2	+29.8 -11.0	+3.5	+0.4	+0.0	38.1	54.0	-15.9	Vert
^	2780.400M	53.7	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	49.1	54.0	-4.9	Vert

21	2709.000M Ave	53.1	-38.5 +0.2	+29.5 -11.0	+3.4	+0.4	+0.0	37.1	54.0	-16.9	Vert
^	2709.000M	53.1	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	48.1	54.0	-5.9	Vert
23	2780.383M Ave	50.8	-38.5 +0.2	+29.8 -11.0	+3.5	+0.4	+0.0	35.2	54.0	-18.8	Horiz
^	2780.383M	50.8	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	46.2	54.0	-7.8	Horiz
25	2745.017M Ave	50.2	-38.5 +0.2	+29.7 -11.0	+3.4	+0.4	+0.0	34.4	54.0	-19.6	Horiz
^	2745.017M	50.2	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	45.4	54.0	-8.6	Horiz
27	2709.042M Ave	49.4	-38.5 +0.2	+29.5 -11.0	+3.4	+0.4	+0.0	33.4	54.0	-20.6	Horiz
^	2709.042M	49.4	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	44.4	54.0	-9.6	Horiz
29	1853.600M	66.4	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	58.1	89.4	-31.3	Vert
30	1830.000M	66.1	-38.8 +0.2	+26.9 +0.0	+2.8	+0.4	+0.0	57.6	89.4	-31.8	Vert
31	1806.000M	64.6	-38.8 +0.2	+26.7 +0.0	+2.8	+0.4	+0.0	55.9	89.4	-33.5	Vert
32	5560.800M	52.2	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	55.0	89.4	-34.4	Vert
33	5490.000M	50.8	-37.2 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	53.7	89.4	-35.7	Vert

Test Location: CKC Laboratories Inc. • 110 N. Olinda Pl. • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **104621** Date: 1/22/2021  
 Test Type: **Radiated Emissions** Time: 14:03:04  
 Tested By: Don Nguyen Sequence#: 14  
 Software: EMITest 5.03.19

**Equipment Tested:**

Device	Manufacturer	Model #	S/N
Configuration 3			

**Support Equipment:**

Device	Manufacturer	Model #	S/N
Configuration 3			

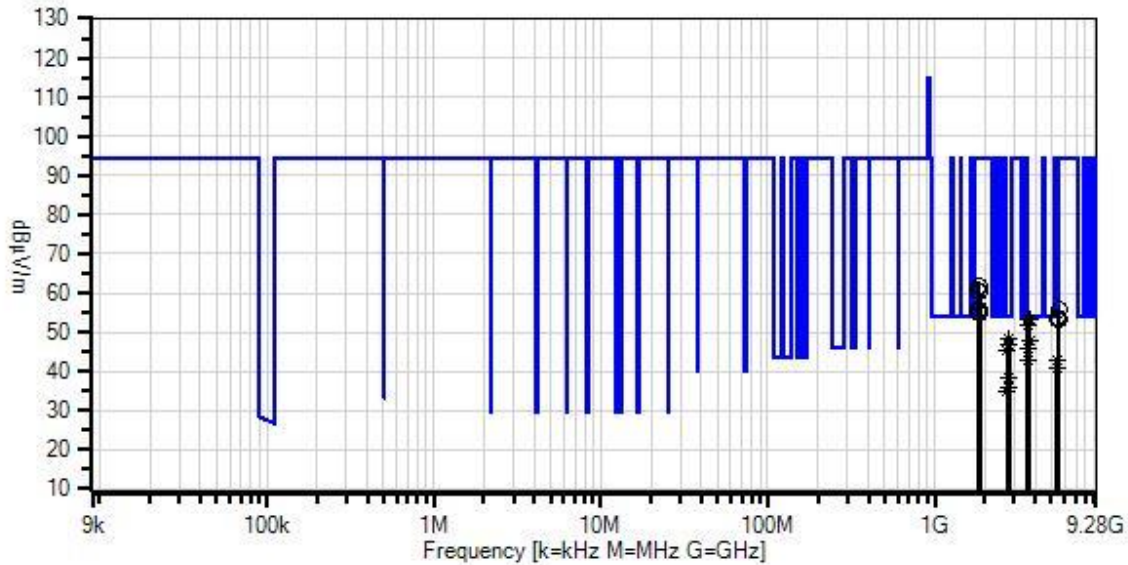
**Test Conditions / Notes:**

The EUT is placed on Styrofoam platform and powered from 3.6V fresh battery. The EUT is connected to a remote located laptop running CLI Tool ver.2.0.1.24.  
 EUT has fixed orientation per manufacture's specification.  
 Operating frequency range/ mode  
 903 - 926.8MHz, 200kHz steps, 120 channels, 16384 **OOK LV3**  
 Frequency of measurement: 9k-9280MHz  
 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  
 -20dBc limit, RBW=100kHz, VBW=300kHz

Note: The manufacturer declares the worst case duty cycle is 28.05ms per 100ms. Duty cycle correction factor= $20\log(28.05\text{ms}/100\text{ms}) = -11.04\text{dB}$ . Average readings in restricted band are calculated from peak readings with duty cycle correction factor.

Test Method: ANSI C63.10 (2013)  
 Temperature (°C): 24  
 Relative Humidity (%): 30  
 Modification 1 was in place during testing.

Itron, Inc. WO#: 104621 Sequence#: 14 Date: 1/22/2021  
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



- Readings
- × QP Readings
- ▼ Ambient
- 1 - 15.247(d) / 15.209 Radiated Spurious Emissions
- Peak Readings
- \* Average Readings
- Software Version: 5.03.19

**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN00314	Loop Antenna	6502	4/13/2020	4/13/2022
	ANP01911	Cable-Amplitude +15C to +45C (dB)	RG214/U	1/2/2020	1/2/2022
	ANP05281	Attenuator	1B	4/7/2020	4/7/2022
	AN01993	Biconilog Antenna	CBL6111C	6/11/2019	6/11/2021
	AN03643	Spectrum Analyzer	E4440A	5/20/2020	5/20/2022
T1	AN00786	Preamp	83017A	5/20/2020	5/20/2022
T2	AN00849	Horn Antenna	3115	3/17/2020	3/17/2022
T3	ANP06360	Cable	L1-PNMNM-48	8/8/2019	8/8/2021
T4	ANP07246	Cable	32022-29094K- 29094K-24TC	5/29/2020	5/29/2022
T5	AN03169	High Pass Filter	HM1155-11SS	5/8/2019	5/8/2021
T6	ANDCCF	Duty Cycle Correction Factor		1/1/2021	1/1/2025

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	3707.133M Ave	65.2	-38.1 +0.2	+32.2 -11.0	+4.0	+0.7	+0.0	53.2	54.0	-0.8	Vert
^	3707.133M	65.2	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	64.2	54.0	+10.2	Vert
3	3659.883M Ave	65.3	-38.1 +0.2	+32.0 -11.0	+4.0	+0.7	+0.0	53.1	54.0	-0.9	Vert
^	3659.883M	65.3	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	64.1	54.0	+10.1	Vert
5	3612.017M Ave	64.3	-38.1 +0.1	+31.8 -11.0	+4.0	+0.6	+0.0	51.7	54.0	-2.3	Vert
^	3612.017M	64.3	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	62.7	54.0	+8.7	Vert
7	2780.467M Ave	63.7	-38.5 +0.2	+29.8 -11.0	+3.5	+0.4	+0.0	48.1	54.0	-5.9	Vert
^	2780.467M	63.7	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	59.1	54.0	+5.1	Vert
9	3707.233M Ave	59.6	-38.1 +0.2	+32.2 -11.0	+4.0	+0.7	+0.0	47.6	54.0	-6.4	Horiz
^	3707.233M	59.6	-38.1 +0.2	+32.2 +0.0	+4.0	+0.7	+0.0	58.6	54.0	+4.6	Horiz
11	2744.983M Ave	62.6	-38.5 +0.2	+29.7 -11.0	+3.4	+0.4	+0.0	46.8	54.0	-7.2	Vert
^	2744.983M	62.6	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	57.8	54.0	+3.8	Vert
13	3659.883M Ave	57.9	-38.1 +0.2	+32.0 -11.0	+4.0	+0.7	+0.0	45.7	54.0	-8.3	Horiz
^	3659.883M	57.9	-38.1 +0.2	+32.0 +0.0	+4.0	+0.7	+0.0	56.7	54.0	+2.7	Horiz
15	2708.867M Ave	61.2	-38.5 +0.2	+29.5 -11.0	+3.4	+0.4	+0.0	45.2	54.0	-8.8	Vert
^	2708.867M	61.2	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	56.2	54.0	+2.2	Vert
17	3611.933M Ave	55.6	-38.1 +0.1	+31.8 -11.0	+4.0	+0.6	+0.0	43.0	54.0	-11.0	Horiz
^	3611.933M	55.6	-38.1 +0.1	+31.8 +0.0	+4.0	+0.6	+0.0	54.0	54.0	+0.0	Horiz
19	5418.050M Ave	51.2	-37.2 +0.2	+34.0 -11.0	+5.1	+0.7	+0.0	43.0	54.0	-11.0	Vert
^	5418.050M	51.2	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	54.0	54.0	+0.0	Vert

21	5417.983M Ave	49.2	-37.2 +0.2	+34.0 -11.0	+5.1	+0.7	+0.0	41.0	54.0	-13.0	Horiz
^	5417.983M	49.2	-37.2 +0.2	+34.0 +0.0	+5.1	+0.7	+0.0	52.0	54.0	-2.0	Horiz
23	2780.400M Ave	53.9	-38.5 +0.2	+29.8 -11.0	+3.5	+0.4	+0.0	38.3	54.0	-15.7	Horiz
^	2780.400M	53.9	-38.5 +0.2	+29.8 +0.0	+3.5	+0.4	+0.0	49.3	54.0	-4.7	Horiz
25	2744.833M Ave	51.8	-38.5 +0.2	+29.7 -11.0	+3.4	+0.4	+0.0	36.0	54.0	-18.0	Horiz
^	2744.833M	51.8	-38.5 +0.2	+29.7 +0.0	+3.4	+0.4	+0.0	47.0	54.0	-7.0	Horiz
27	2709.050M Ave	51.1	-38.5 +0.2	+29.5 -11.0	+3.4	+0.4	+0.0	35.1	54.0	-18.9	Horiz
^	2709.050M	51.1	-38.5 +0.2	+29.5 +0.0	+3.4	+0.4	+0.0	46.1	54.0	-7.9	Horiz
29	1830.000M	70.5	-38.8 +0.2	+26.9 +0.0	+2.8	+0.4	+0.0	62.0	94.6	-32.6	Vert
30	1806.000M	69.5	-38.8 +0.2	+26.7 +0.0	+2.8	+0.4	+0.0	60.8	94.6	-33.8	Vert
31	1853.600M	68.6	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	60.3	94.6	-34.3	Vert
32	5560.667M	52.9	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	55.7	94.6	-38.9	Vert
33	1853.533M	64.0	-38.8 +0.2	+27.0 +0.0	+2.9	+0.4	+0.0	55.7	94.6	-38.9	Horiz
34	1805.950M	63.8	-38.8 +0.2	+26.7 +0.0	+2.8	+0.4	+0.0	55.1	94.6	-39.5	Horiz
35	1830.050M	63.4	-38.8 +0.2	+26.9 +0.0	+2.8	+0.4	+0.0	54.9	94.6	-39.7	Horiz
36	5490.133M	51.0	-37.2 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	53.9	94.6	-40.7	Vert
37	5560.717M	50.6	-37.3 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	53.4	94.6	-41.2	Horiz
38	5490.017M	50.3	-37.2 +0.2	+34.1 +0.0	+5.1	+0.7	+0.0	53.2	94.6	-41.4	Horiz

**Band Edge**

**Band Edge Summary  
GAS REMOTE Configuration 1**

Operating Mode: Single Channel (Low and High)

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	OOK LV1	PCB Trace	42.1	<46	Pass
902	OOK LV1	PCB Trace	76.2	<89.6	Pass
928	OOK LV1	PCB Trace	77.1	<89.6	Pass
960	OOK LV1	PCB Trace	48.9	<54	Pass
614	OOK LV3	PCB Trace	41.0	<46	Pass
902	OOK LV3	PCB Trace	80.8	<93.9	Pass
928	OOK LV3	PCB Trace	79.0	<93.9	Pass
960	OOK LV3	PCB Trace	47.5	<54	Pass
614	GFSK LV3	PCB Trace	41.1	<46	Pass
902	GFSK LV3	PCB Trace	67.8	<88.5	Pass
928	GFSK LV3	PCB Trace	66.8	<88.5	Pass
960	GFSK LV3	PCB Trace	49.3	<54	Pass

**Band Edge Summary  
GAS REMOTE-Configuration 1**

Operating Mode: Hopping

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	OOK LV1	PCB Trace	40.4	<46	Pass
902	OOK LV1	PCB Trace	74.4	<89.6	Pass
928	OOK LV1	PCB Trace	75.5	<89.6	Pass
960	OOK LV1	PCB Trace	46.9	<54	Pass
614	OOK LV3	PCB Trace	41.2	<46	Pass
902	OOK LV3	PCB Trace	81.2	<93.9	Pass
928	OOK LV3	PCB Trace	79.2	<93.9	Pass
960	OOK LV3	PCB Trace	48.4	<54	Pass
614	GFSK LV3	PCB Trace	41.8	<46	Pass
902	GFSK LV3	PCB Trace	66.2	<88.5	Pass
928	GFSK LV3	PCB Trace	66.3	<88.5	Pass
960	GFSK LV3	PCB Trace	47.5	<54	Pass



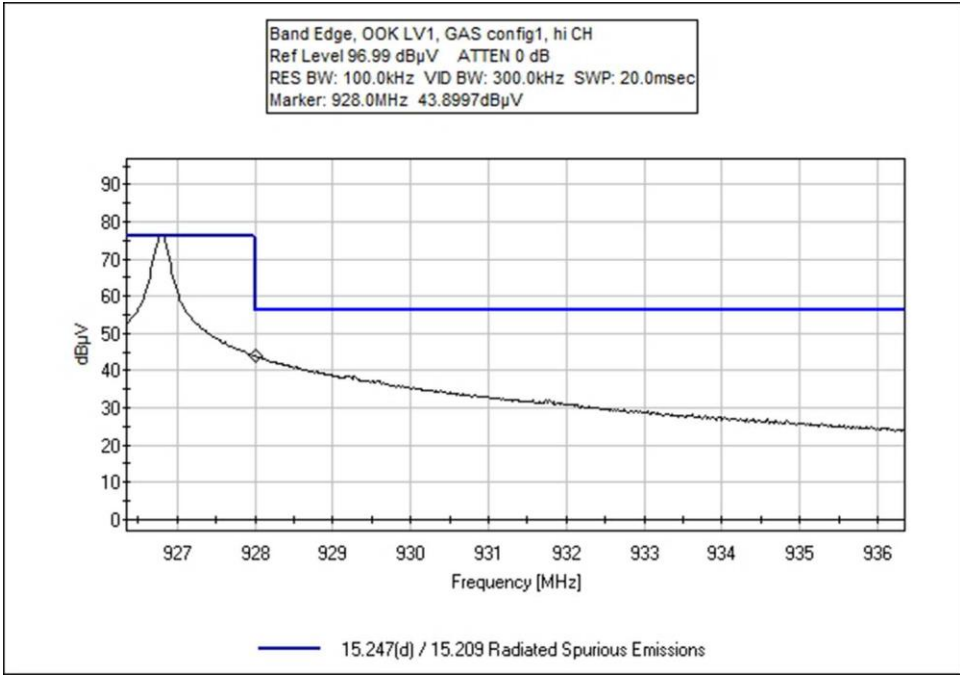
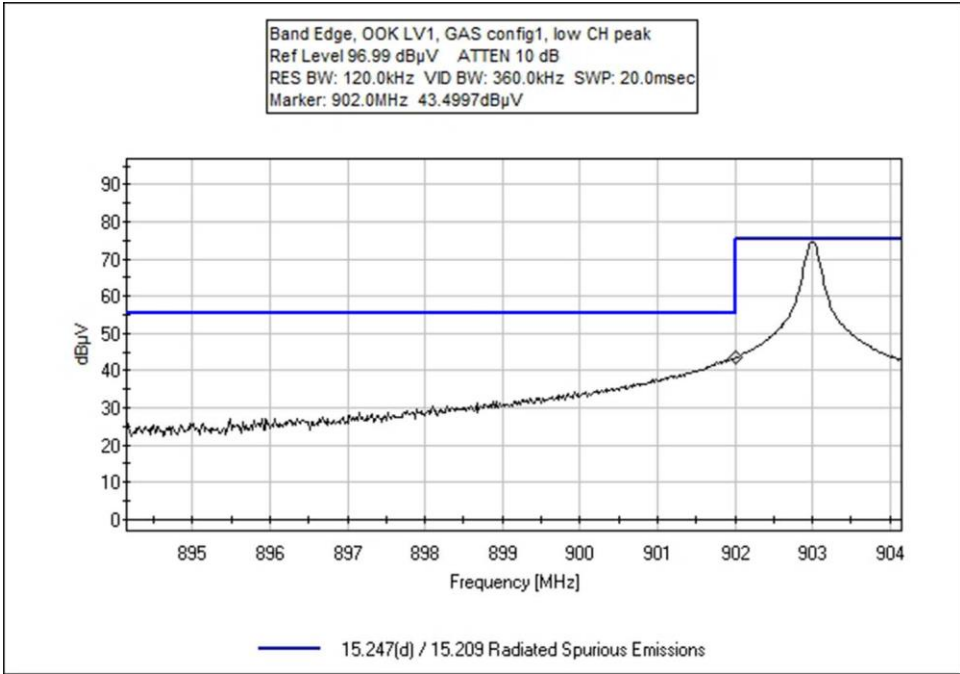
Band Edge Summary WATER REMOTE - Configuration 2					
Operating Mode: Single Channel (Low and High)					
Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	OOK LV1	PCB Trace	40.7	<46	Pass
902	OOK LV1	PCB Trace	74.2	<88.2	Pass
928	OOK LV1	PCB Trace	74.1	<88.2	Pass
960	OOK LV1	PCB Trace	45.9	<54	Pass
614	OOK LV3	PCB Trace	40.4	<46	Pass
902	OOK LV3	PCB Trace	81.7	<93.0	Pass
928	OOK LV3	PCB Trace	77.9	<93.0	Pass
960	OOK LV3	PCB Trace	48.4	<54	Pass
614	GFSK LV3	PCB Trace	43.2	<46	Pass
902	GFSK LV3	PCB Trace	66.3	<87.6	Pass
928	GFSK LV3	PCB Trace	69.8	<87.6	Pass
960	GFSK LV3	PCB Trace	48.1	<54	Pass

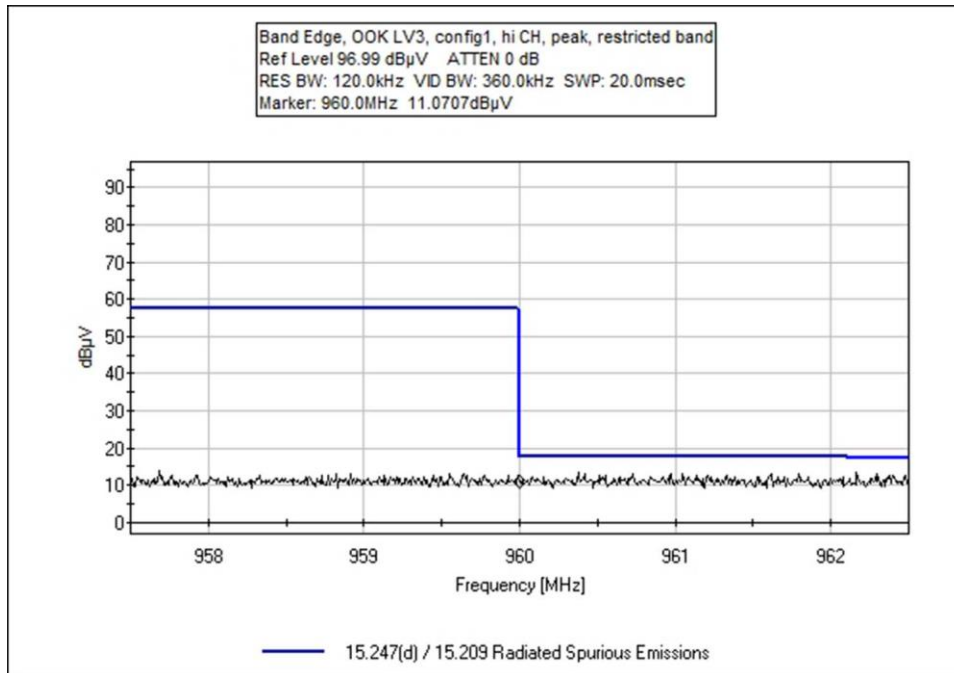
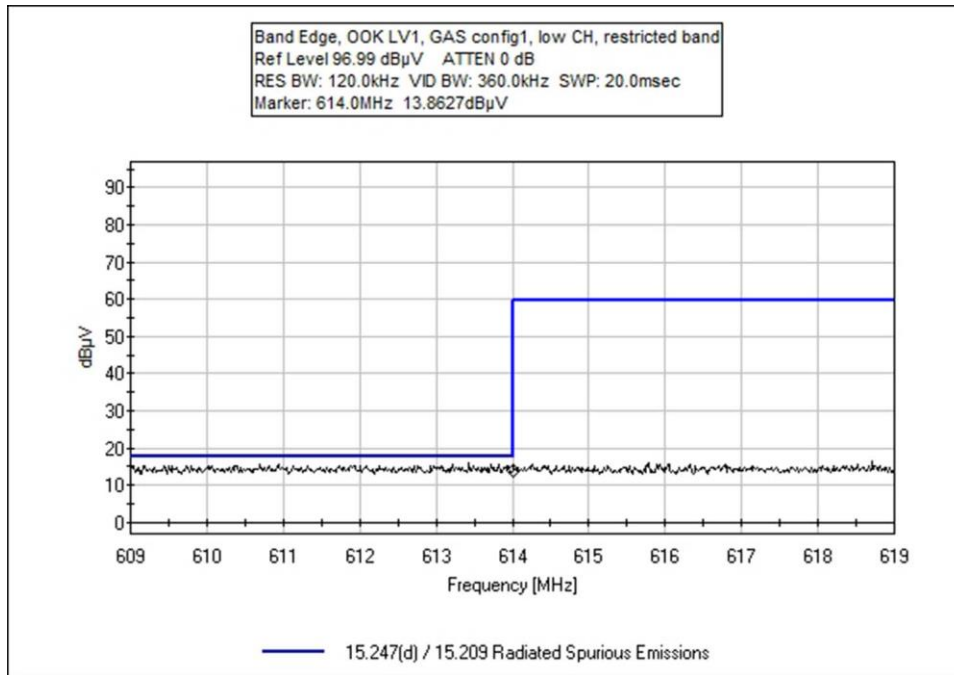
Band Edge Summary WATER REMOTE --Configuration 2					
Operating Mode: Hopping					
Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	OOK LV1	PCB Trace	42.3	<46	Pass
902	OOK LV1	PCB Trace	74.4	<88.2	Pass
928	OOK LV1	PCB Trace	74.0	<88.2	Pass
960	OOK LV1	PCB Trace	45.7	<54	Pass
614	OOK LV3	PCB Trace	41.6	<46	Pass
902	OOK LV3	PCB Trace	81.5	<93.0	Pass
928	OOK LV3	PCB Trace	78.1	<93.0	Pass
960	OOK LV3	PCB Trace	48.7	<54	Pass
614	GFSK LV3	PCB Trace	43.2	<46	Pass
902	GFSK LV3	PCB Trace	65.4	<87.6	Pass
928	GFSK LV3	PCB Trace	69.6	<87.6	Pass
960	GFSK LV3	PCB Trace	47.6	<54	Pass

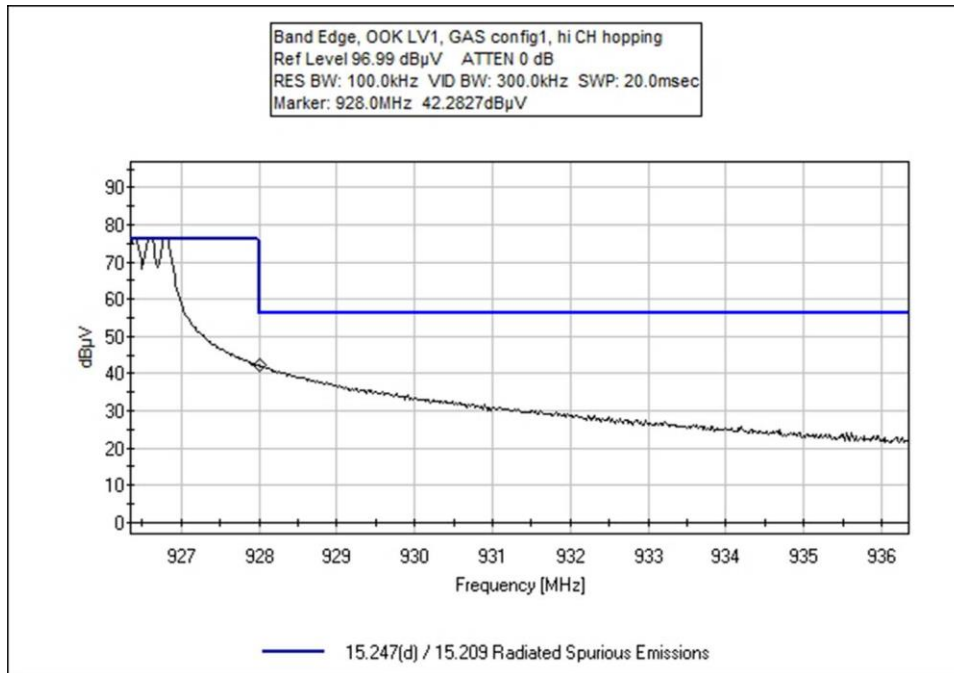
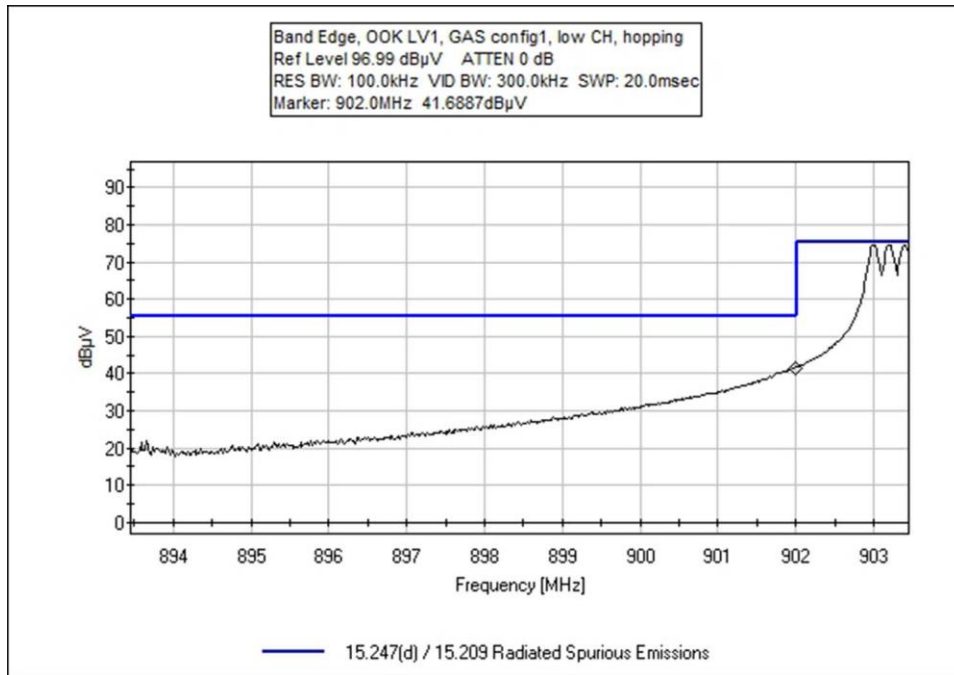
Band Edge Summary PIT-Configuration 3					
Operating Mode: Single Channel (Low and High)					
Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	OOK LV1	PCB Trace	43.1	<46	Pass
902	OOK LV1	PCB Trace	76.7	<89.4	Pass
928	OOK LV1	PCB Trace	75.3	<89.4	Pass
960	OOK LV1	PCB Trace	48.6	<54	Pass
614	OOK LV3	PCB Trace	42.9	<46	Pass
902	OOK LV3	PCB Trace	80.8	<94.6	Pass
928	OOK LV3	PCB Trace	79.7	<94.6	Pass
960	OOK LV3	PCB Trace	47.9	<54	Pass
614	GFSK LV3	PCB Trace	41.2	<46	Pass
902	GFSK LV3	PCB Trace	68.7	<90.5	Pass
928	GFSK LV3	PCB Trace	69.7	<90.5	Pass
960	GFSK LV3	PCB Trace	48.3	<54	Pass

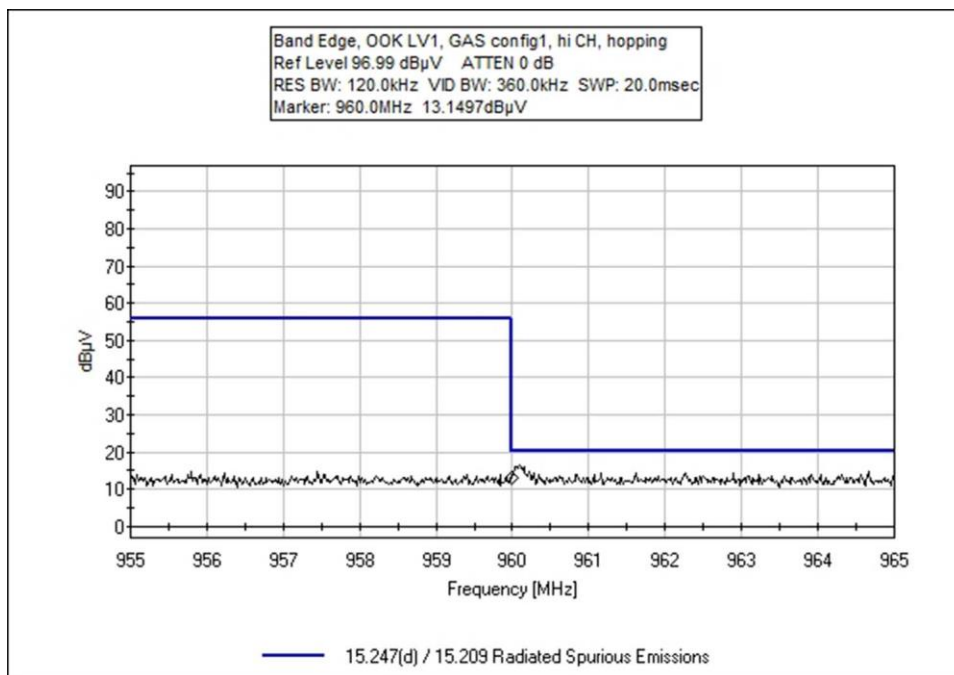
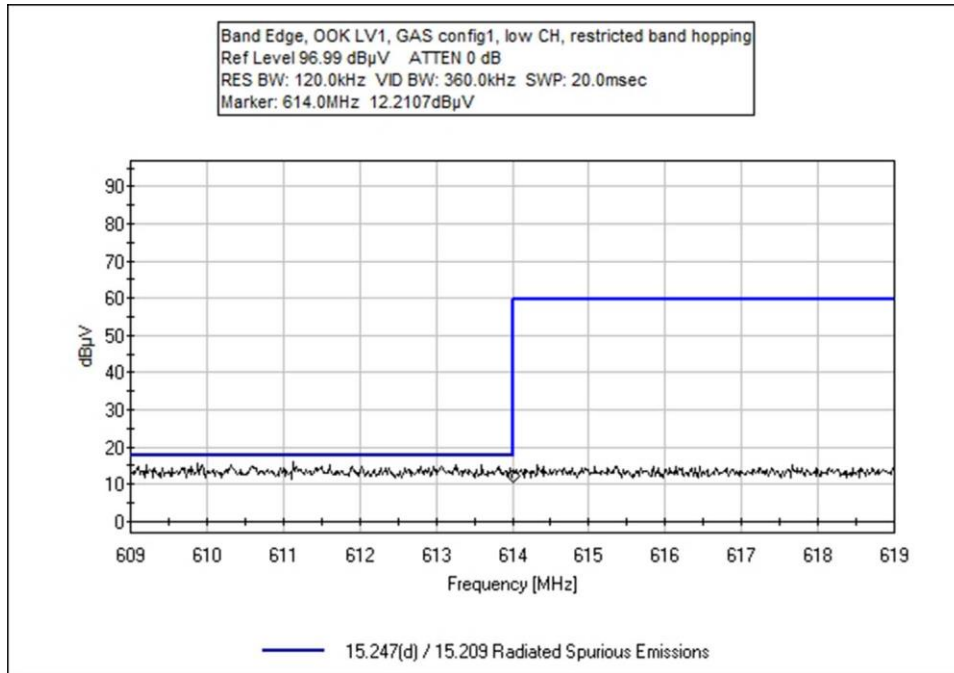
Band Edge Summary PIT-Configuration 3					
Operating Mode: Hopping					
Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	OOK LV1	PCB Trace	41.2	<46	Pass
902	OOK LV1	PCB Trace	76.7	<89.4	Pass
928	OOK LV1	PCB Trace	75.3	<89.4	Pass
960	OOK LV1	PCB Trace	46.2	<54	Pass
614	OOK LV3	PCB Trace	42.6	<46	Pass
902	OOK LV3	PCB Trace	75.8	<94.6	Pass
928	OOK LV3	PCB Trace	79.8	<94.6	Pass
960	OOK LV3	PCB Trace	48.5	<54	Pass
614	GFSK LV3	PCB Trace	40.9	<46	Pass
902	GFSK LV3	PCB Trace	68.1	<90.5	Pass
928	GFSK LV3	PCB Trace	70.0	<90.5	Pass
960	GFSK LV3	PCB Trace	47.2	<54	Pass

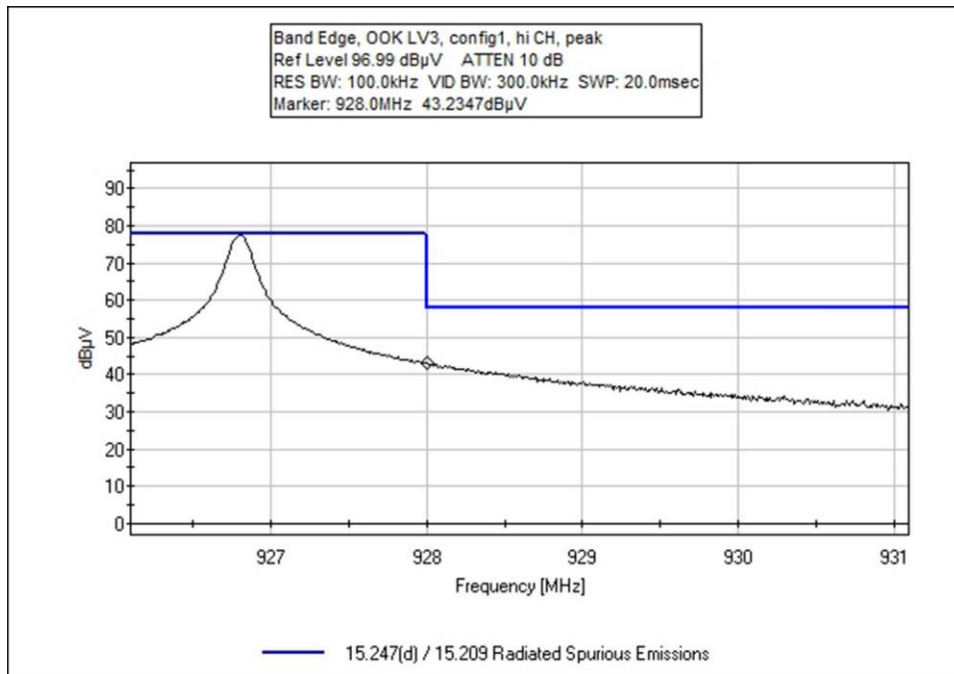
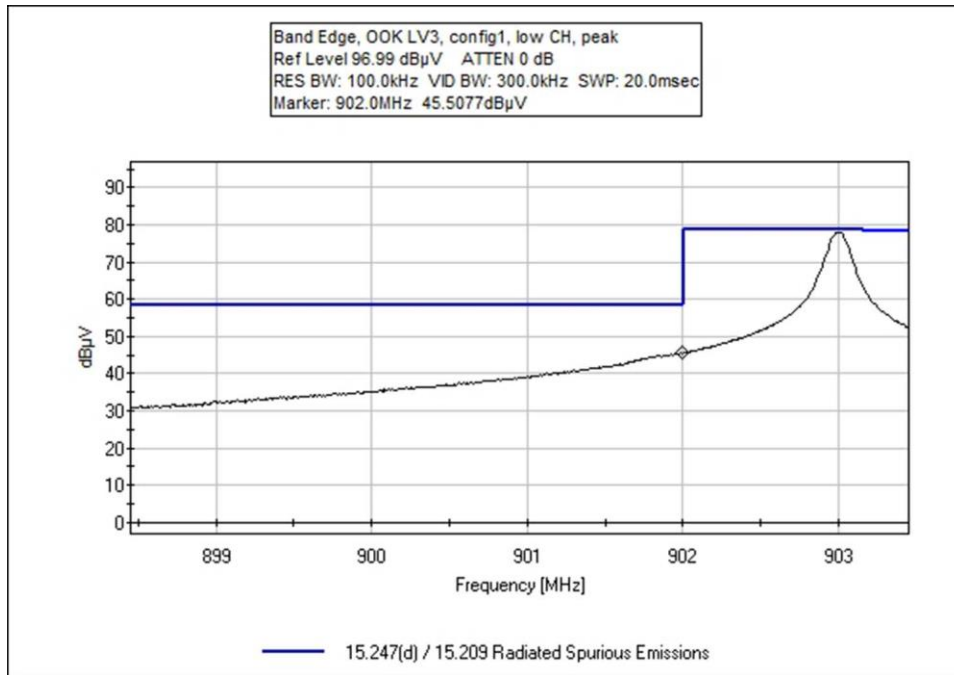
**Band Edge Plots, Configuration 1**

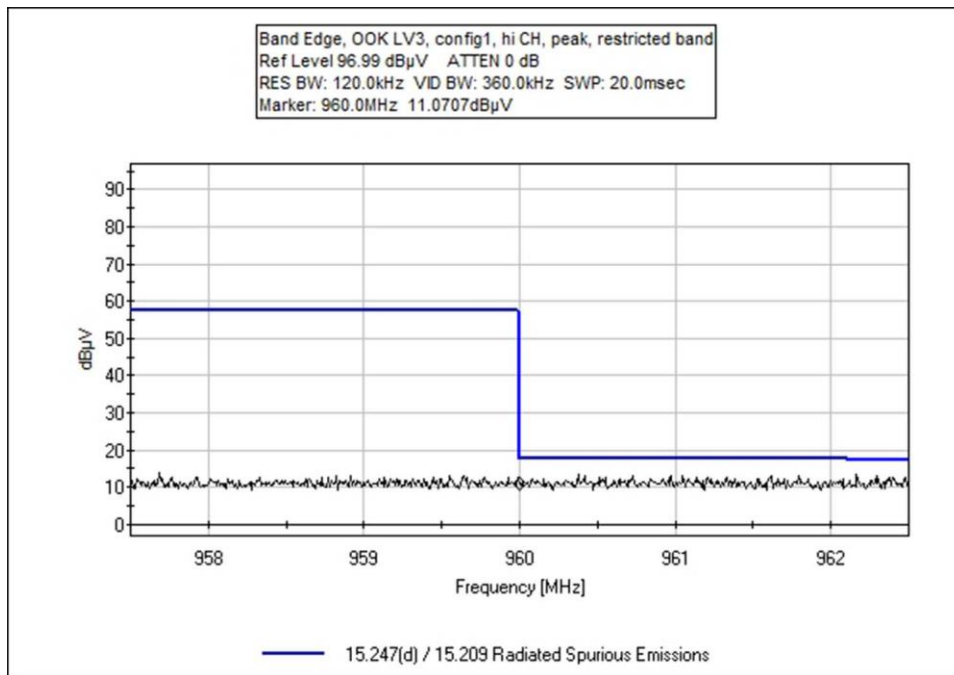
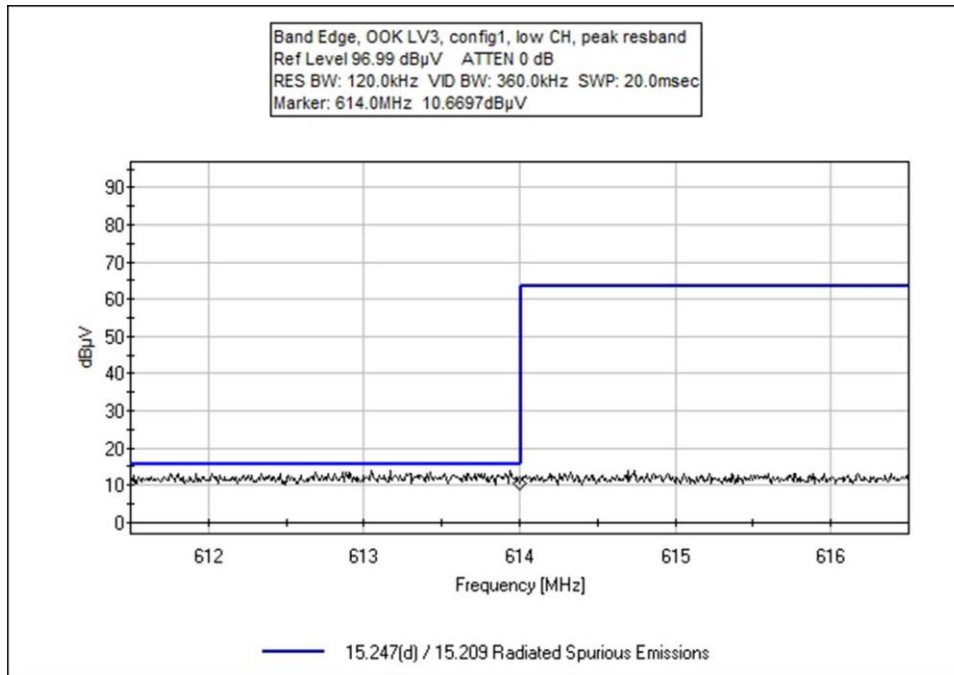




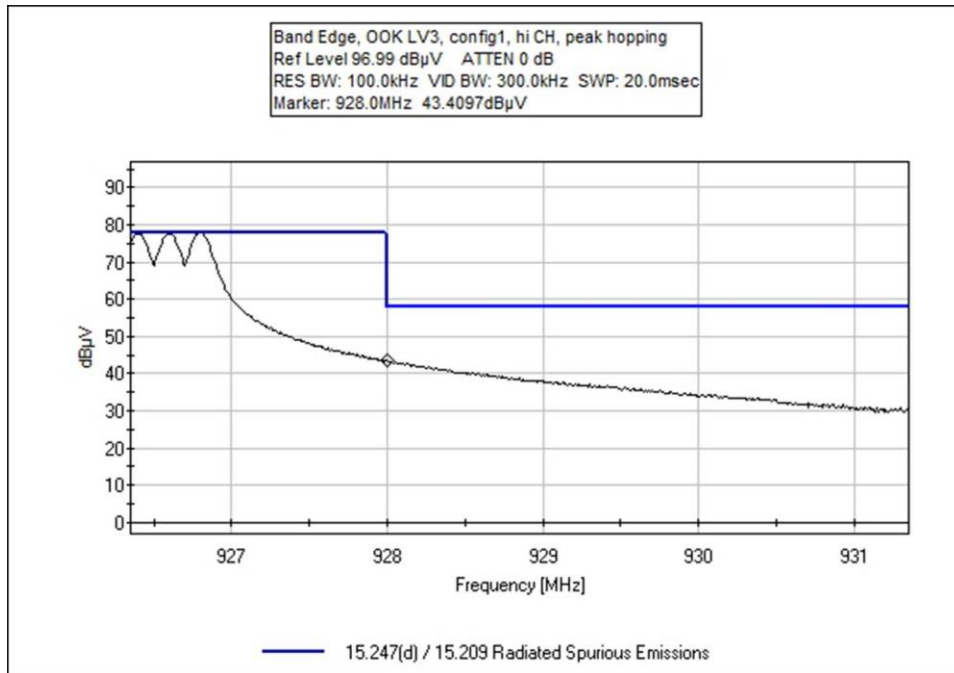
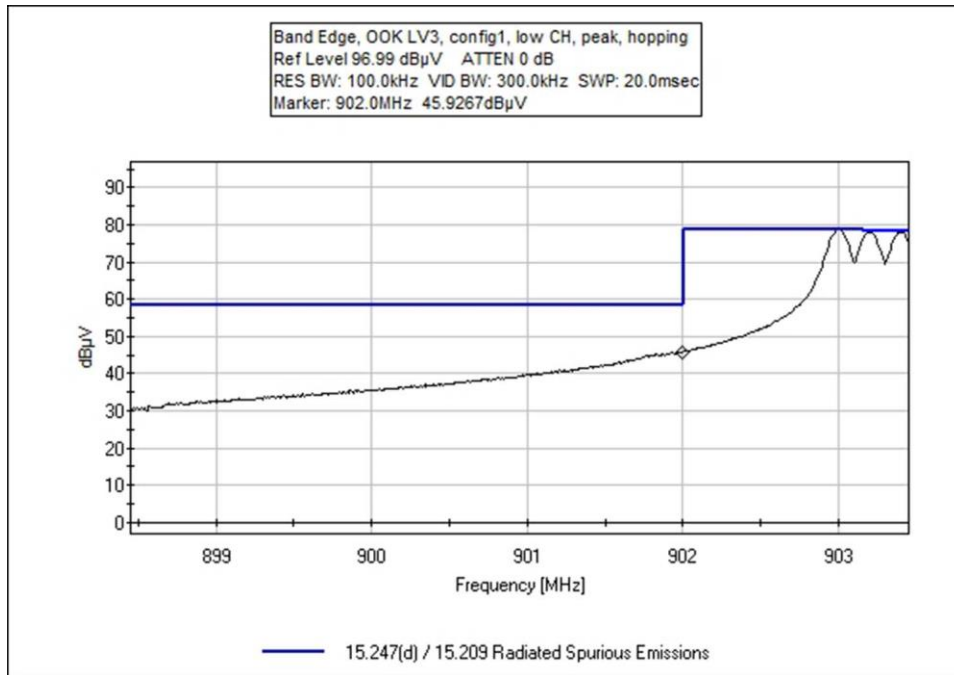


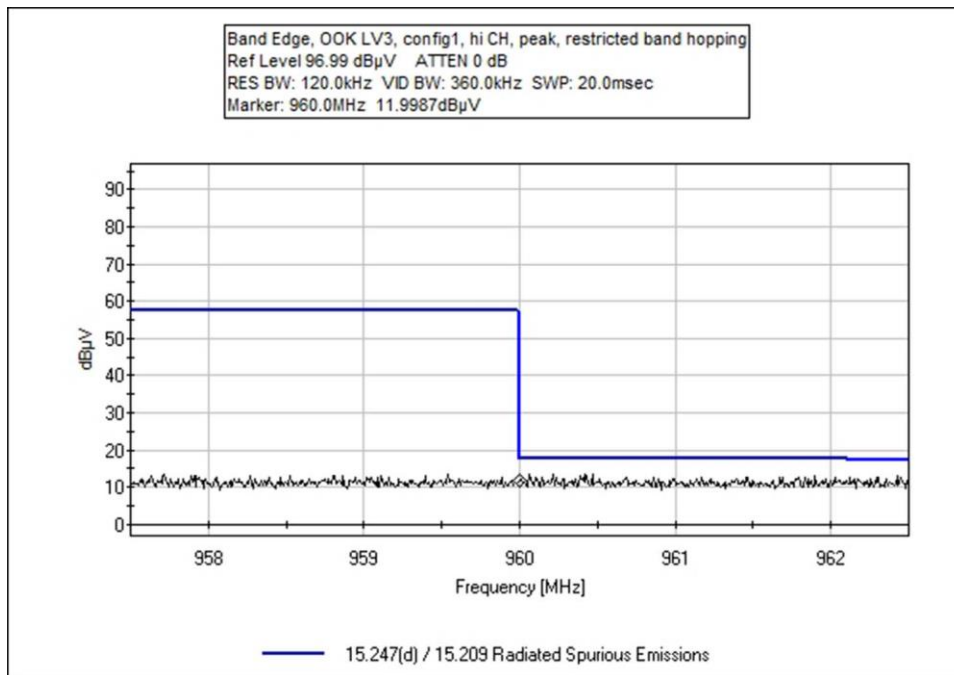
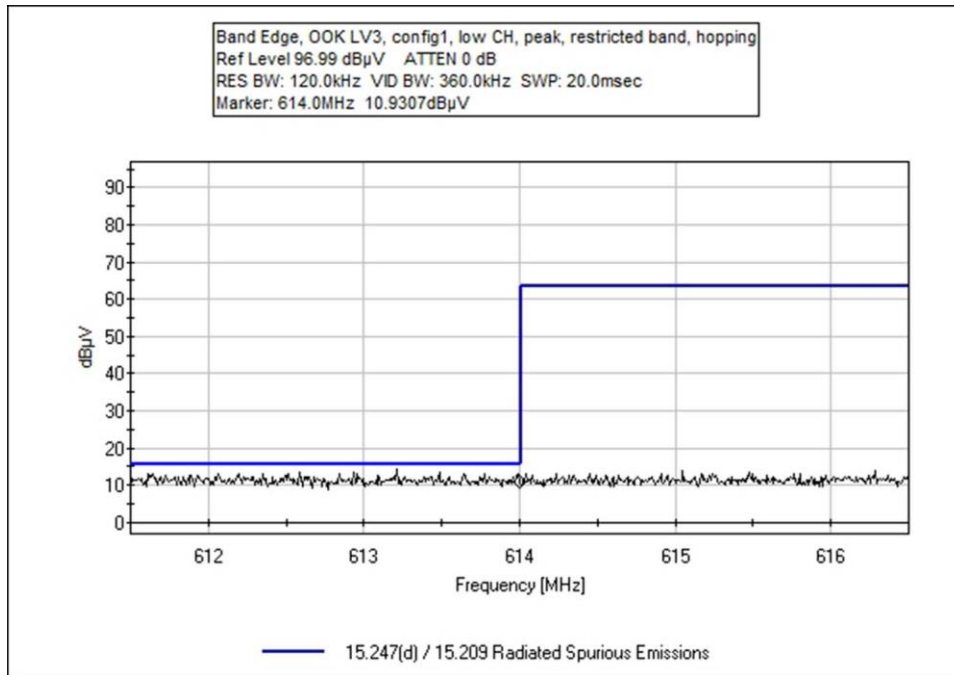


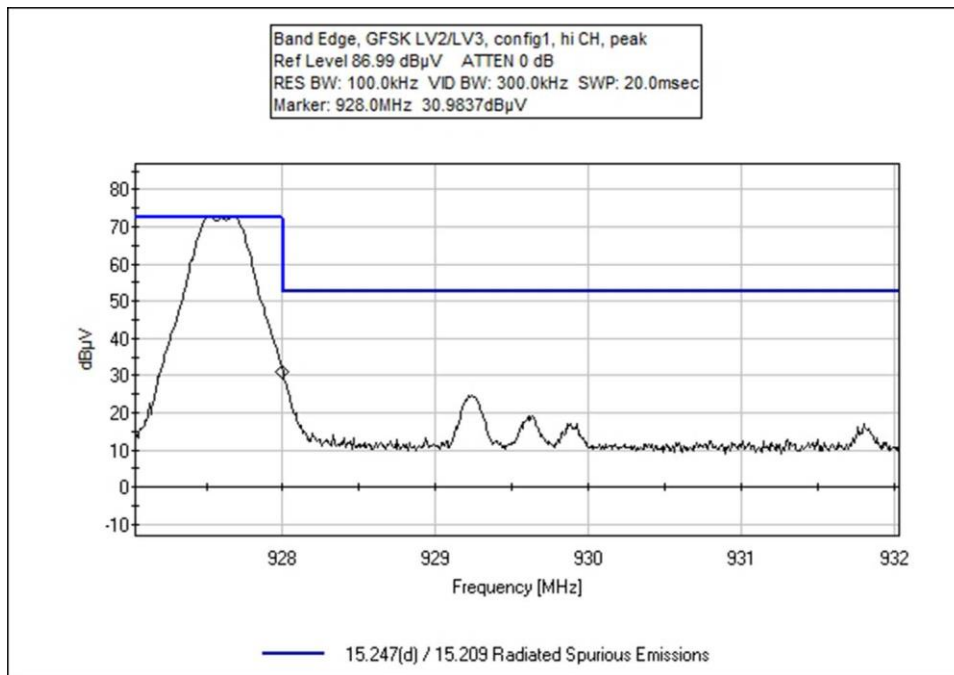
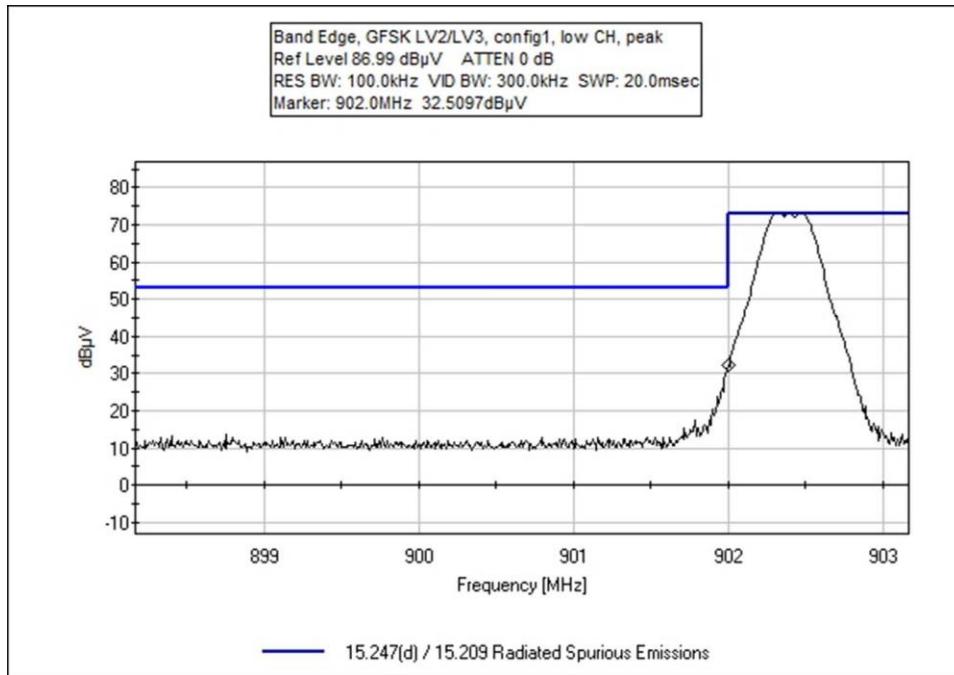


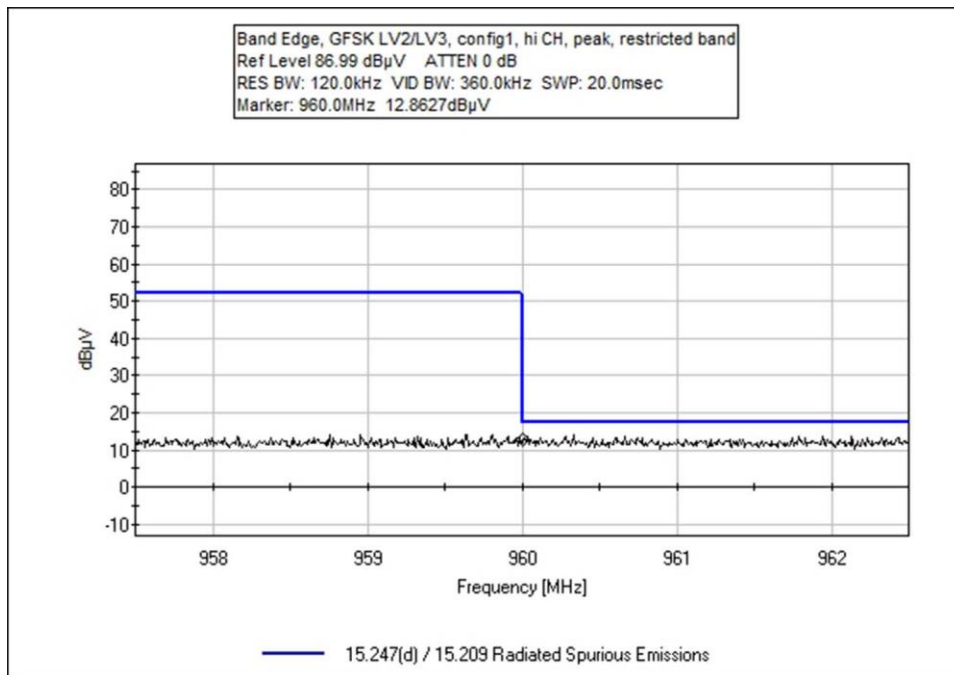
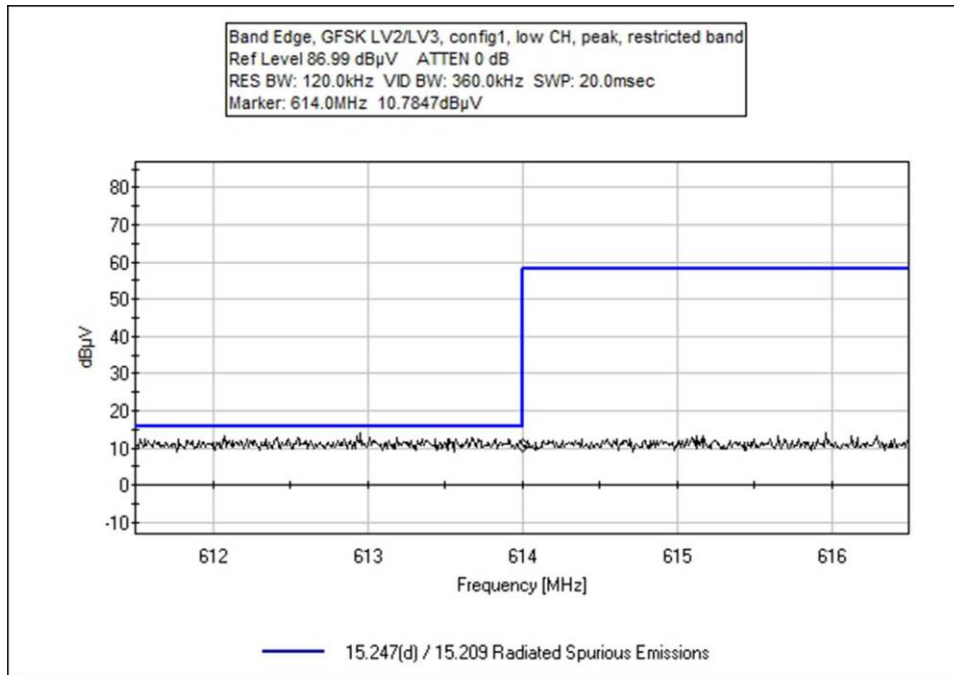


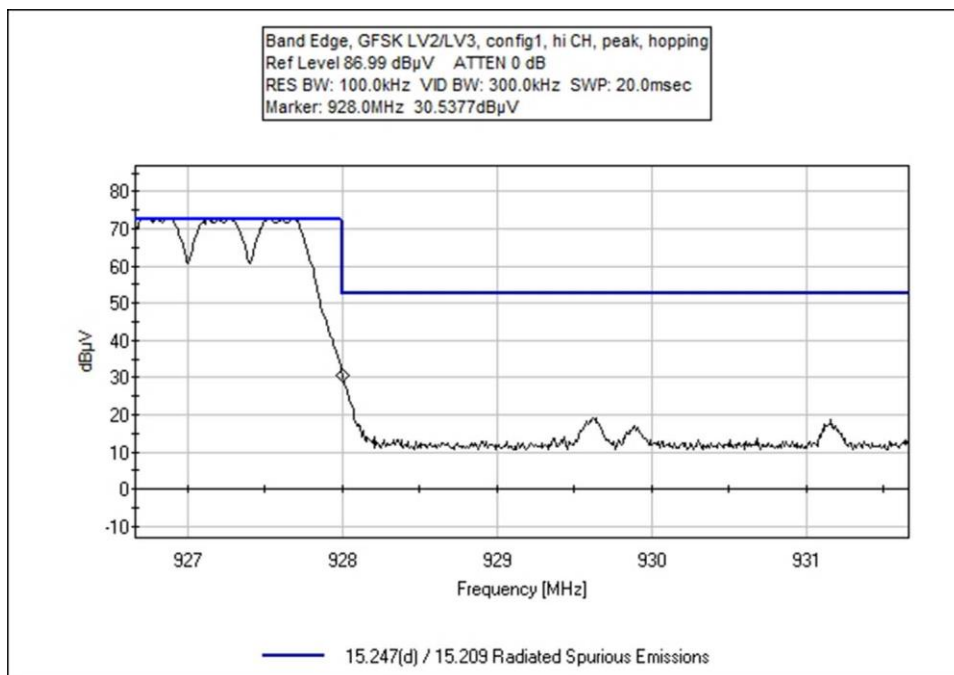
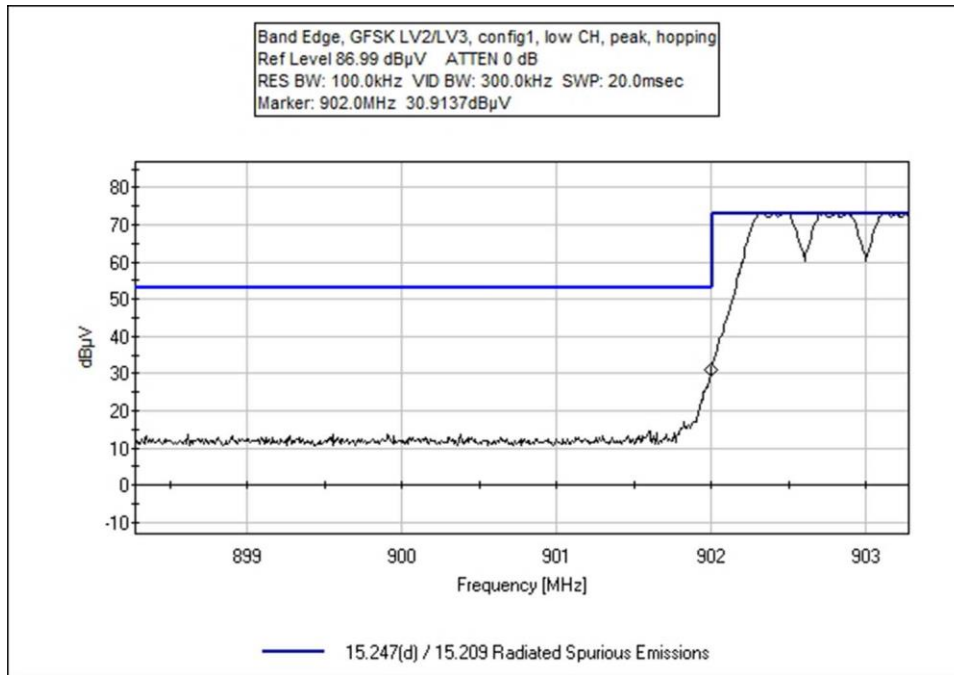


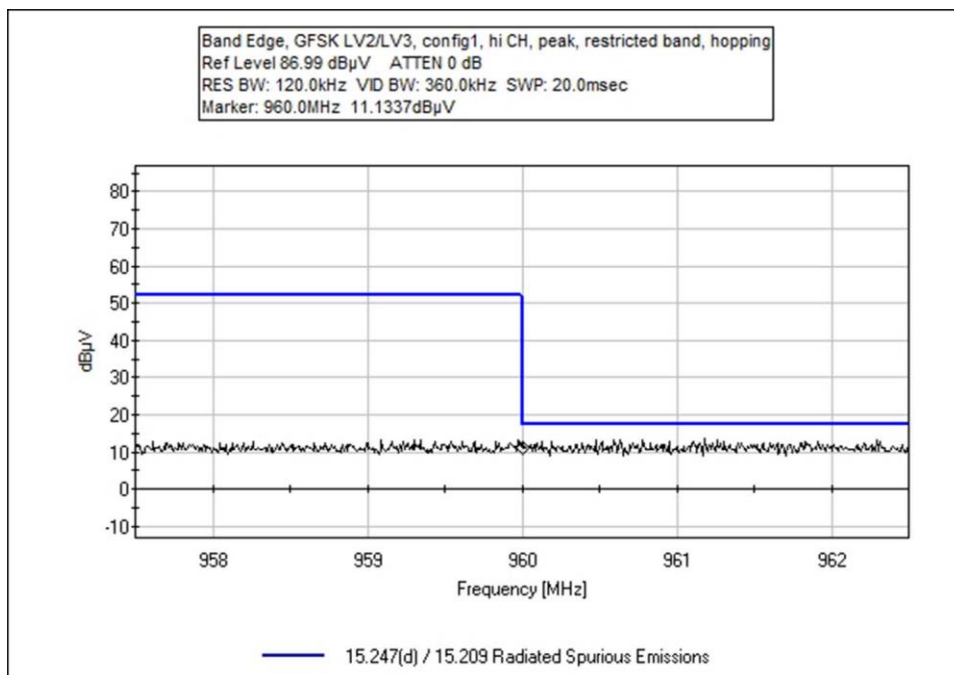
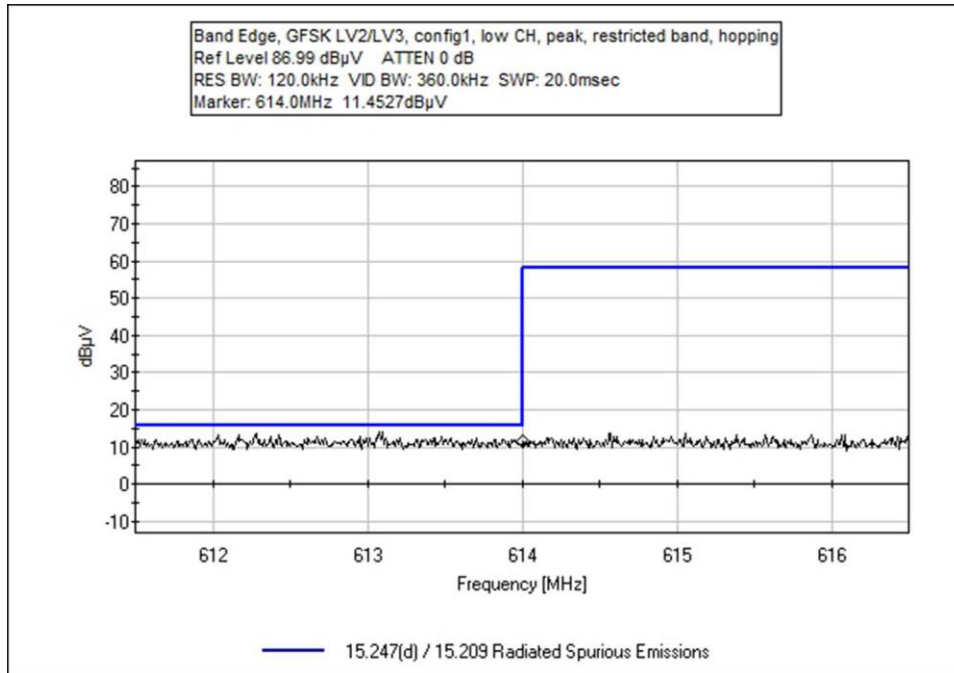












**Band Edge Plots, Configuration 2**

