

10	2783.250M	55.8	+0.0	+0.0	+0.0	+0.0	+0.0	50.8	54.0	-3.2	Vert
			-38.6	+29.5	+3.5	+0.4					
			+0.2								
11	2706.600M	55.4	+0.0	+0.0	+0.0	+0.0	+0.0	49.9	54.0	-4.1	Vert
			-38.6	+29.1	+3.4	+0.4					
			+0.2								
12	2745.004M	55.1	+0.0	+0.0	+0.0	+0.0	+0.0	49.9	54.0	-4.1	Vert
			-38.6	+29.4	+3.4	+0.4					
			+0.2								
13	4511.000M	48.2	+0.0	+0.0	+0.0	+0.0	+0.0	48.7	54.0	-5.3	Horiz
			-37.8	+32.9	+4.5	+0.7					
			+0.2								
14	2783.250M	53.4	+0.0	+0.0	+0.0	+0.0	+0.0	48.4	54.0	-5.6	Horiz
			-38.6	+29.5	+3.5	+0.4					
			+0.2								
15	2745.000M	53.6	+0.0	+0.0	+0.0	+0.0	+0.0	48.4	54.0	-5.6	Horiz
			-38.6	+29.4	+3.4	+0.4					
			+0.2								
16	4575.000M	47.7	+0.0	+0.0	+0.0	+0.0	+0.0	48.4	54.0	-5.6	Horiz
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
17	3660.004M	50.1	+0.0	+0.0	+0.0	+0.0	+0.0	48.2	54.0	-5.8	Vert
			-38.3	+31.6	+4.1	+0.5					
			+0.2								
18	3660.000M	50.0	+0.0	+0.0	+0.0	+0.0	+0.0	48.1	54.0	-5.9	Horiz
			-38.3	+31.6	+4.1	+0.5					
			+0.2								
19	3711.000M	49.7	+0.0	+0.0	+0.0	+0.0	+0.0	48.1	54.0	-5.9	Horiz
			-38.3	+31.9	+4.1	+0.5					
			+0.2								
20	3711.000M	49.4	+0.0	+0.0	+0.0	+0.0	+0.0	47.8	54.0	-6.2	Vert
			-38.3	+31.9	+4.1	+0.5					
			+0.2								
21	4638.750M	46.2	+0.0	+0.0	+0.0	+0.0	+0.0	46.8	54.0	-7.2	Horiz
			-37.7	+32.8	+4.7	+0.6					
			+0.2								
22	4511.000M	46.3	+0.0	+0.0	+0.0	+0.0	+0.0	46.8	54.0	-7.2	Vert
			-37.8	+32.9	+4.5	+0.7					
			+0.2								
23	3608.800M	48.5	+0.0	+0.0	+0.0	+0.0	+0.0	46.0	54.0	-8.0	Horiz
			-38.4	+31.1	+4.1	+0.6					
			+0.1								
24	3608.800M	48.2	+0.0	+0.0	+0.0	+0.0	+0.0	45.7	54.0	-8.3	Vert
			-38.4	+31.1	+4.1	+0.6					
			+0.1								
25	4575.004M	45.0	+0.0	+0.0	+0.0	+0.0	+0.0	45.7	54.0	-8.3	Vert
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
26	5413.200M	42.9	+0.0	+0.0	+0.0	+0.0	+0.0	45.2	54.0	-8.8	Vert
			-37.5	+33.9	+5.3	+0.4					
			+0.2								

27	5413.200M	42.8	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	54.0	-8.9	Horiz
			-37.5	+33.9	+5.3	+0.4					
			+0.2								
28	4638.750M	44.5	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	54.0	-8.9	Vert
			-37.7	+32.8	+4.7	+0.6					
			+0.2								
29	1830.000M	73.9	+0.0	+0.0	+0.0	+0.0	+0.0	65.1	107.9	-42.8	Horiz
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
30	1855.500M	73.6	+0.0	+0.0	+0.0	+0.0	+0.0	65.1	107.9	-42.8	Horiz
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
31	1804.400M	73.9	+0.0	+0.0	+0.0	+0.0	+0.0	65.0	107.9	-42.9	Horiz
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
32	1804.400M	73.4	+0.0	+0.0	+0.0	+0.0	+0.0	64.5	107.9	-43.4	Vert
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
33	1830.004M	71.9	+0.0	+0.0	+0.0	+0.0	+0.0	63.1	107.9	-44.8	Vert
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
34	1855.500M	70.2	+0.0	+0.0	+0.0	+0.0	+0.0	61.7	107.9	-46.2	Vert
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
35	5566.500M	45.3	+0.0	+0.0	+0.0	+0.0	+0.0	47.9	107.9	-60.0	Horiz
			-37.4	+33.9	+5.5	+0.4					
			+0.2								
36	5566.500M	43.9	+0.0	+0.0	+0.0	+0.0	+0.0	46.5	107.9	-61.4	Vert
			-37.4	+33.9	+5.5	+0.4					
			+0.2								
37	5490.004M	43.2	+0.0	+0.0	+0.0	+0.0	+0.0	45.9	107.9	-62.0	Vert
			-37.5	+34.1	+5.5	+0.4					
			+0.2								
38	5490.000M	42.0	+0.0	+0.0	+0.0	+0.0	+0.0	44.7	107.9	-63.2	Horiz
			-37.5	+34.1	+5.5	+0.4					
			+0.2								
39	65.700M	22.5	+5.9	+6.0	+1.5	+0.0	+0.0	35.9	107.9	-72.0	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
40	61.950M	18.2	+5.8	+6.0	+1.4	+0.0	+0.0	31.4	107.9	-76.5	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **103182** Date: 11/15/2019  
 Test Type: **Maximized Emissions** Time: 13:51:39  
 Tested By: Don Nguyen Sequence#: 19  
 Software: EMITest 5.03.12

***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. The serial port is connected to a support laptop via serial to USB adapter. The laptop is running software Command Line Interface Tool to turn on TX.  
 The EUT is powered from fresh battery 6.0Vdc.  
 Modulation: 50kbps GFSK Level 3

Frequency of measurement: 9kHz-9280MHz  
 9 kHz -150 kHz;RBW=200 Hz,VBW=600 Hz;  
 150 kHz-30 MHz;RBW=9 kHz,VBW=27 kHz;  
 30 MHz-1000 MHz;RBW=120 kHz,VBW=360 kHz,  
 1000 MHz-9280MHz;RBW=1 MHz,VBW=3 MHz.  
 RBW=100kHz, VBW=300kHz (-20dbc limit)

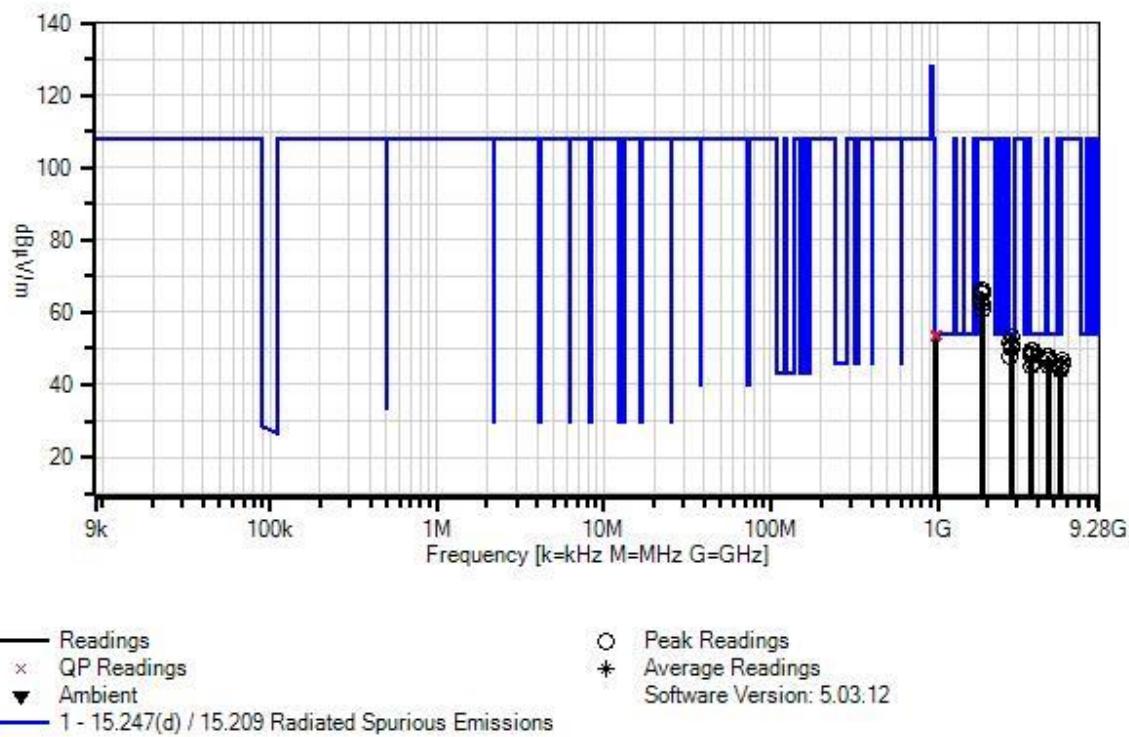
Site A

Test Method: ANSI C63.10 (2013)

Temperature (°C): 23

Relative Humidity (%): 47

Itron, Inc. WO#: 103182 Sequence#: 19 Date: 11/15/2019  
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN01995	Biconilog Antenna	CBL6111C	4/23/2018	4/23/2020
T2	ANP05275	Attenuator	1W	4/5/2018	4/5/2020
T3	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
	AN00309	Preamp	8447D	2/19/2018	2/19/2020
	AN00314	Loop Antenna	6502	5/13/2018	5/13/2020
	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020
T4	AN02672	Spectrum Analyzer	E4446A	3/13/2019	3/13/2021
T5	AN00786	Preamp	83017A	5/12/2018	5/12/2020
T6	AN00849	Horn Antenna	3115	3/14/2018	3/14/2020
T7	ANP07139	Cable	ANDL1- PNMNM-48	3/4/2019	3/4/2021
T8	ANP07244	Cable	32022-29094K- 29094K-24TC	7/5/2018	7/5/2020
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	T2	T3	T4	Dist	Corr	Spec	Margin	Polar	
			T5	T6	T7	T8						
			MHz	dB $\mu$ V	dB	dB	dB	Table	dB $\mu$ V/m	dB $\mu$ V/m	dB	Ant
1	993.000M	17.2	+24.2	+6.1	+6.3	+0.0	+0.0	53.8	54.0	-0.2	Vert	
	QP		+0.0	+0.0	+0.0	+0.0						
			+0.0									
^	993.000M	21.0	+24.2	+6.1	+6.3	+0.0	+0.0	57.6	54.0	+3.6	Vert	
			+0.0	+0.0	+0.0	+0.0						
			+0.0									
3	980.200M	17.5	+24.0	+6.1	+6.2	+0.0	+0.0	53.8	54.0	-0.2	Vert	
	QP		+0.0	+0.0	+0.0	+0.0						
			+0.0									
^	980.200M	21.5	+24.0	+6.1	+6.2	+0.0	+0.0	57.8	54.0	+3.8	Vert	
			+0.0	+0.0	+0.0	+0.0						
			+0.0									
5	967.000M	17.5	+23.8	+6.1	+6.1	+0.0	+0.0	53.5	54.0	-0.5	Vert	
	QP		+0.0	+0.0	+0.0	+0.0						
			+0.0									
^	967.000M	21.5	+23.8	+6.1	+6.1	+0.0	+0.0	57.5	54.0	+3.5	Vert	
			+0.0	+0.0	+0.0	+0.0						
			+0.0									
7	2783.400M	58.4	+0.0	+0.0	+0.0	+0.0	+0.0	53.4	54.0	-0.6	Vert	
			-38.6	+29.5	+3.5	+0.4						
			+0.2									
8	979.755M	16.9	+24.0	+6.1	+6.2	+0.0	+0.0	53.2	54.0	-0.8	Vert	
	QP		+0.0	+0.0	+0.0	+0.0						
			+0.0									
^	979.755M	20.2	+24.0	+6.1	+6.2	+0.0	+0.0	56.5	54.0	+2.5	Vert	
			+0.0	+0.0	+0.0	+0.0						
			+0.0									

10	2706.600M	57.1	+0.0	+0.0	+0.0	+0.0	+0.0	51.6	54.0	-2.4	Vert
			-38.6	+29.1	+3.4	+0.4					
			+0.2								
11	2745.000M	56.3	+0.0	+0.0	+0.0	+0.0	+0.0	51.1	54.0	-2.9	Vert
			-38.6	+29.4	+3.4	+0.4					
			+0.2								
12	2783.400M	55.7	+0.0	+0.0	+0.0	+0.0	+0.0	50.7	54.0	-3.3	Horiz
			-38.6	+29.5	+3.5	+0.4					
			+0.2								
13	2745.000M	55.3	+0.0	+0.0	+0.0	+0.0	+0.0	50.1	54.0	-3.9	Horiz
			-38.6	+29.4	+3.4	+0.4					
			+0.2								
14	3711.200M	51.3	+0.0	+0.0	+0.0	+0.0	+0.0	49.7	54.0	-4.3	Vert
			-38.3	+31.9	+4.1	+0.5					
			+0.2								
15	3660.000M	51.4	+0.0	+0.0	+0.0	+0.0	+0.0	49.5	54.0	-4.5	Vert
			-38.3	+31.6	+4.1	+0.5					
			+0.2								
16	3660.000M	50.4	+0.0	+0.0	+0.0	+0.0	+0.0	48.5	54.0	-5.5	Horiz
			-38.3	+31.6	+4.1	+0.5					
			+0.2								
17	3608.800M	50.5	+0.0	+0.0	+0.0	+0.0	+0.0	48.0	54.0	-6.0	Vert
			-38.4	+31.1	+4.1	+0.6					
			+0.1								
18	2706.600M	53.5	+0.0	+0.0	+0.0	+0.0	+0.0	48.0	54.0	-6.0	Horiz
			-38.6	+29.1	+3.4	+0.4					
			+0.2								
19	4575.000M	47.2	+0.0	+0.0	+0.0	+0.0	+0.0	47.9	54.0	-6.1	Vert
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
20	4511.000M	47.3	+0.0	+0.0	+0.0	+0.0	+0.0	47.8	54.0	-6.2	Vert
			-37.8	+32.9	+4.5	+0.7					
			+0.2								
21	4639.000M	46.4	+0.0	+0.0	+0.0	+0.0	+0.0	47.0	54.0	-7.0	Vert
			-37.7	+32.8	+4.7	+0.6					
			+0.2								
22	4575.000M	46.0	+0.0	+0.0	+0.0	+0.0	+0.0	46.7	54.0	-7.3	Horiz
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
23	4511.000M	46.0	+0.0	+0.0	+0.0	+0.0	+0.0	46.5	54.0	-7.5	Horiz
			-37.8	+32.9	+4.5	+0.7					
			+0.2								
24	3711.200M	48.0	+0.0	+0.0	+0.0	+0.0	+0.0	46.4	54.0	-7.6	Horiz
			-38.3	+31.9	+4.1	+0.5					
			+0.2								
25	5413.200M	42.9	+0.0	+0.0	+0.0	+0.0	+0.0	45.2	54.0	-8.8	Horiz
			-37.5	+33.9	+5.3	+0.4					
			+0.2								
26	4639.000M	44.5	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	54.0	-8.9	Horiz
			-37.7	+32.8	+4.7	+0.6					
			+0.2								

27	3608.800M	47.4	+0.0	+0.0	+0.0	+0.0	+0.0	44.9	54.0	-9.1	Horiz
			-38.4	+31.1	+4.1	+0.6					
			+0.1								
28	5413.200M	42.2	+0.0	+0.0	+0.0	+0.0	+0.0	44.5	54.0	-9.5	Vert
			-37.5	+33.9	+5.3	+0.4					
			+0.2								
29	1830.000M	74.7	+0.0	+0.0	+0.0	+0.0	+0.0	65.9	107.9	-42.0	Vert
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
30	1804.400M	74.6	+0.0	+0.0	+0.0	+0.0	+0.0	65.7	107.9	-42.2	Vert
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
31	1855.600M	73.5	+0.0	+0.0	+0.0	+0.0	+0.0	65.0	107.9	-42.9	Vert
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
32	1804.400M	72.6	+0.0	+0.0	+0.0	+0.0	+0.0	63.7	107.9	-44.2	Horiz
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
33	1830.000M	71.1	+0.0	+0.0	+0.0	+0.0	+0.0	62.3	107.9	-45.6	Horiz
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
34	1855.600M	69.1	+0.0	+0.0	+0.0	+0.0	+0.0	60.6	107.9	-47.3	Horiz
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
35	5566.800M	43.9	+0.0	+0.0	+0.0	+0.0	+0.0	46.5	107.9	-61.4	Horiz
			-37.4	+33.9	+5.5	+0.4					
			+0.2								
36	5566.800M	43.2	+0.0	+0.0	+0.0	+0.0	+0.0	45.8	107.9	-62.1	Vert
			-37.4	+33.9	+5.5	+0.4					
			+0.2								
37	5490.000M	42.0	+0.0	+0.0	+0.0	+0.0	+0.0	44.7	107.9	-63.2	Horiz
			-37.5	+34.1	+5.5	+0.4					
			+0.2								
38	5490.000M	41.5	+0.0	+0.0	+0.0	+0.0	+0.0	44.2	107.9	-63.7	Vert
			-37.5	+34.1	+5.5	+0.4					
			+0.2								

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **103182** Date: 11/15/2019  
 Test Type: **Maximized Emissions** Time: 15:05:32  
 Tested By: Don Nguyen Sequence#: 11  
 Software: EMITest 5.03.12

***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 Styrofoam platform. The serial port is connected to a support laptop via serial to USB adapter. The laptop is running software Command Line Interface Tool to turn on TX.  
 The EUT is powered from fresh battery 6.0Vdc.  
 Modulation: 25kbps GFSK Level 3

Frequency of measurement: 9kHz-9280MHz  
 9 kHz -150 kHz;RBW=200 Hz,VBW=600 Hz;  
 150 kHz-30 MHz;RBW=9 kHz,VBW=27 kHz;  
 30 MHz-1000 MHz;RBW=120 kHz,VBW=360 kHz,  
 1000 MHz-9280MHz;RBW=1 MHz,VBW=3 MHz.  
 RBW=100kHz, VBW=300kHz (-20dbc limit)

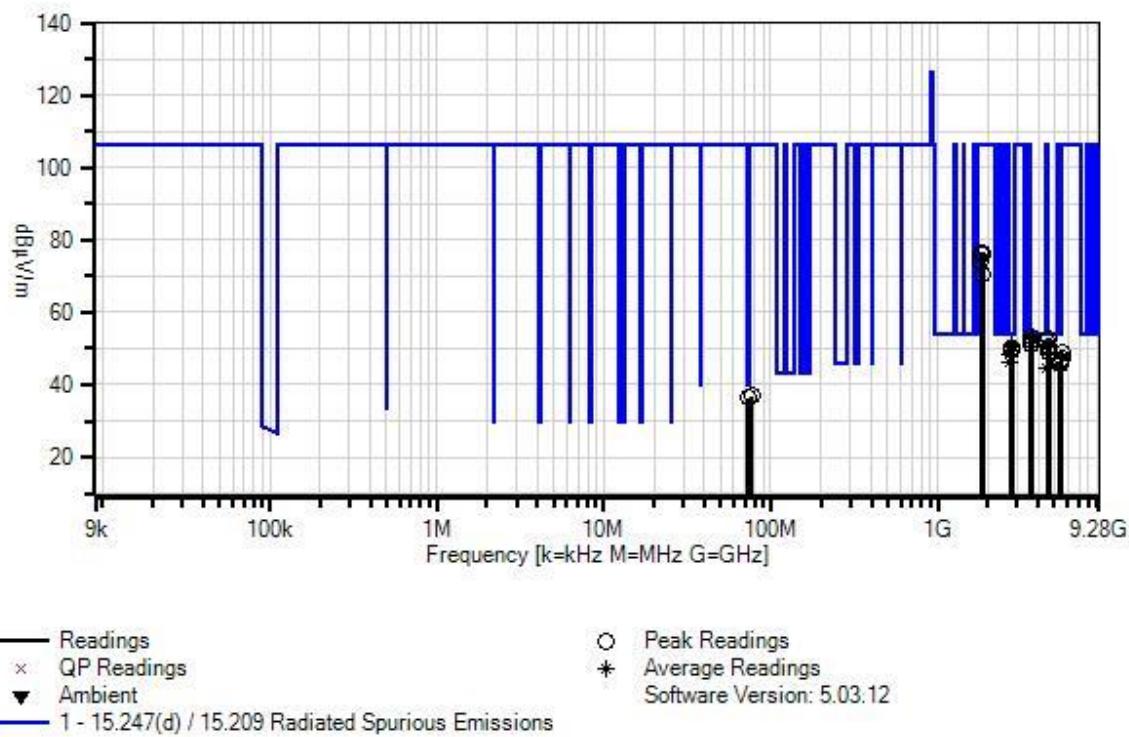
Site A

Test Method: ANSI C63.10 (2013)

Temperature (°C): 23

Relative Humidity (%): 47

Itron, Inc. WO#: 103182 Sequence#: 11 Date: 11/15/2019  
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN01995	Biconilog Antenna	CBL6111C	4/23/2018	4/23/2020
T2	ANP05275	Attenuator	1W	4/5/2018	4/5/2020
T3	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
	AN00309	Preamp	8447D	2/19/2018	2/19/2020
	AN00314	Loop Antenna	6502	5/13/2018	5/13/2020
	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020
T4	AN02672	Spectrum Analyzer	E4446A	3/13/2019	3/13/2021
T5	AN00786	Preamp	83017A	5/12/2018	5/12/2020
T6	AN00849	Horn Antenna	3115	3/14/2018	3/14/2020
T7	ANP07139	Cable	ANDL1- PNMNM-48	3/4/2019	3/4/2021
T8	ANP07244	Cable	32022-29094K- 29094K-24TC	7/5/2018	7/5/2020
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	T2	T3	T4	Dist	Corr	Spec	Margin	Polar	
			T5	T6	T7	T8						
			MHz	dB $\mu$ V	dB	dB	dB	Table	dB $\mu$ V/m	dB $\mu$ V/m	dB	Ant
1	3608.800M	55.7	+0.0	+0.0	+0.0	+0.0	+0.0	53.2	54.0	-0.8	Vert	
			-38.4	+31.1	+4.1	+0.6						
			+0.1									
2	3711.000M	54.6	+0.0	+0.0	+0.0	+0.0	+0.0	53.0	54.0	-1.0	Horiz	
	Ave		-38.3	+31.9	+4.1	+0.5						
			+0.2									
^	3711.000M	62.6	+0.0	+0.0	+0.0	+0.0	+0.0	61.0	54.0	+7.0	Horiz	
			-38.3	+31.9	+4.1	+0.5						
			+0.2									
4	3711.000M	54.3	+0.0	+0.0	+0.0	+0.0	+0.0	52.7	54.0	-1.3	Vert	
	Ave		-38.3	+31.9	+4.1	+0.5						
			+0.2									
^	3711.000M	62.1	+0.0	+0.0	+0.0	+0.0	+0.0	60.5	54.0	+6.5	Vert	
			-38.3	+31.9	+4.1	+0.5						
			+0.2									
6	4638.750M	52.0	+0.0	+0.0	+0.0	+0.0	+0.0	52.6	54.0	-1.4	Horiz	
			-37.7	+32.8	+4.7	+0.6						
			+0.2									
7	4511.000M	51.6	+0.0	+0.0	+0.0	+0.0	+0.0	52.1	54.0	-1.9	Vert	
			-37.8	+32.9	+4.5	+0.7						
			+0.2									
8	3660.000M	53.8	+0.0	+0.0	+0.0	+0.0	+0.0	51.9	54.0	-2.1	Horiz	
			-38.3	+31.6	+4.1	+0.5						
			+0.2									

9	2783.250M	56.2	+0.0	+0.0	+0.0	+0.0	+0.0	51.2	54.0	-2.8	Vert
	Ave		-38.6	+29.5	+3.5	+0.4					
			+0.2								
^	2783.250M	63.8	+0.0	+0.0	+0.0	+0.0	+0.0	58.8	54.0	+4.8	Vert
			-38.6	+29.5	+3.5	+0.4					
			+0.2								
11	3660.000M	53.1	+0.0	+0.0	+0.0	+0.0	+0.0	51.2	54.0	-2.8	Vert
			-38.3	+31.6	+4.1	+0.5					
			+0.2								
12	3608.800M	53.5	+0.0	+0.0	+0.0	+0.0	+0.0	51.0	54.0	-3.0	Horiz
			-38.4	+31.1	+4.1	+0.6					
			+0.1								
13	4575.000M	50.0	+0.0	+0.0	+0.0	+0.0	+0.0	50.7	54.0	-3.3	Horiz
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
14	2745.000M	55.2	+0.0	+0.0	+0.0	+0.0	+0.0	50.0	54.0	-4.0	Vert
			-38.6	+29.4	+3.4	+0.4					
			+0.2								
15	4638.750M	49.3	+0.0	+0.0	+0.0	+0.0	+0.0	49.9	54.0	-4.1	Vert
			-37.7	+32.8	+4.7	+0.6					
			+0.2								
16	2745.000M	54.7	+0.0	+0.0	+0.0	+0.0	+0.0	49.5	54.0	-4.5	Horiz
			-38.6	+29.4	+3.4	+0.4					
			+0.2								
17	2783.250M	54.3	+0.0	+0.0	+0.0	+0.0	+0.0	49.3	54.0	-4.7	Horiz
	Ave		-38.6	+29.5	+3.5	+0.4					
			+0.2								
^	2783.250M	62.1	+0.0	+0.0	+0.0	+0.0	+0.0	57.1	54.0	+3.1	Horiz
			-38.6	+29.5	+3.5	+0.4					
			+0.2								
19	4575.000M	48.2	+0.0	+0.0	+0.0	+0.0	+0.0	48.9	54.0	-5.1	Vert
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
20	2706.600M	54.1	+0.0	+0.0	+0.0	+0.0	+0.0	48.6	54.0	-5.4	Vert
	Ave		-38.6	+29.1	+3.4	+0.4					
			+0.2								
^	2706.600M	62.1	+0.0	+0.0	+0.0	+0.0	+0.0	56.6	54.0	+2.6	Vert
			-38.6	+29.1	+3.4	+0.4					
			+0.2								
22	5413.200M	44.2	+0.0	+0.0	+0.0	+0.0	+0.0	46.5	54.0	-7.5	Horiz
			-37.5	+33.9	+5.3	+0.4					
			+0.2								
23	2706.600M	51.9	+0.0	+0.0	+0.0	+0.0	+0.0	46.4	54.0	-7.6	Horiz
	Ave		-38.6	+29.1	+3.4	+0.4					
			+0.2								
^	2706.600M	59.5	+0.0	+0.0	+0.0	+0.0	+0.0	54.0	54.0	+0.0	Horiz
			-38.6	+29.1	+3.4	+0.4					
			+0.2								
25	5413.200M	43.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.6	54.0	-8.4	Vert
			-37.5	+33.9	+5.3	+0.4					
			+0.2								

26	4511.000M	44.1	+0.0	+0.0	+0.0	+0.0	+0.0	44.6	54.0	-9.4	Horiz
	Ave		-37.8	+32.9	+4.5	+0.7					
			+0.2								
^	4511.000M	51.8	+0.0	+0.0	+0.0	+0.0	+0.0	52.3	54.0	-1.7	Horiz
			-37.8	+32.9	+4.5	+0.7					
			+0.2								
28	1855.500M	85.1	+0.0	+0.0	+0.0	+0.0	+0.0	76.6	106.4	-29.8	Vert
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
29	1804.400M	85.3	+0.0	+0.0	+0.0	+0.0	+0.0	76.4	106.4	-30.0	Vert
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
30	1855.500M	84.4	+0.0	+0.0	+0.0	+0.0	+0.0	75.9	106.4	-30.5	Horiz
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
31	1804.400M	82.9	+0.0	+0.0	+0.0	+0.0	+0.0	74.0	106.4	-32.4	Horiz
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
32	1830.000M	79.5	+0.0	+0.0	+0.0	+0.0	+0.0	70.7	106.4	-35.7	Vert
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
33	1830.000M	79.1	+0.0	+0.0	+0.0	+0.0	+0.0	70.3	106.4	-36.1	Horiz
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
34	5566.500M	46.4	+0.0	+0.0	+0.0	+0.0	+0.0	49.0	106.4	-57.4	Horiz
			-37.4	+33.9	+5.5	+0.4					
			+0.2								
35	5566.500M	44.9	+0.0	+0.0	+0.0	+0.0	+0.0	47.5	106.4	-58.9	Vert
			-37.4	+33.9	+5.5	+0.4					
			+0.2								
36	5490.000M	43.7	+0.0	+0.0	+0.0	+0.0	+0.0	46.4	106.4	-60.0	Vert
			-37.5	+34.1	+5.5	+0.4					
			+0.2								
37	5490.000M	43.0	+0.0	+0.0	+0.0	+0.0	+0.0	45.7	106.4	-60.7	Horiz
			-37.5	+34.1	+5.5	+0.4					
			+0.2								
38	76.750M	22.0	+7.3	+6.0	+1.6	+0.0	+0.0	36.9	106.4	-69.5	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
39	72.500M	22.4	+6.5	+6.0	+1.5	+0.0	+0.0	36.4	106.4	-70.0	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **103182** Date: 11/15/2019  
 Test Type: **Maximized Emissions** Time: 15:59:18  
 Tested By: Don Nguyen Sequence#: 12  
 Software: EMITest 5.03.12

***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 Styrofoam platform. The serial port is connected to a support laptop via serial to USB adapter. The laptop is running software Command Line Interface Tool to turn on TX.  
 The EUT is powered from fresh battery 6.0Vdc.  
 Modulation: 50kbps GFSK Level 3

Frequency of measurement: 9kHz-9280MHz  
 9 kHz -150 kHz;RBW=200 Hz,VBW=600 Hz;  
 150 kHz-30 MHz;RBW=9 kHz,VBW=27 kHz;  
 30 MHz-1000 MHz;RBW=120 kHz,VBW=360 kHz,  
 1000 MHz-9280MHz;RBW=1 MHz,VBW=3 MHz.  
 RBW=100kHz, VBW=300kHz (-20dbc limit)

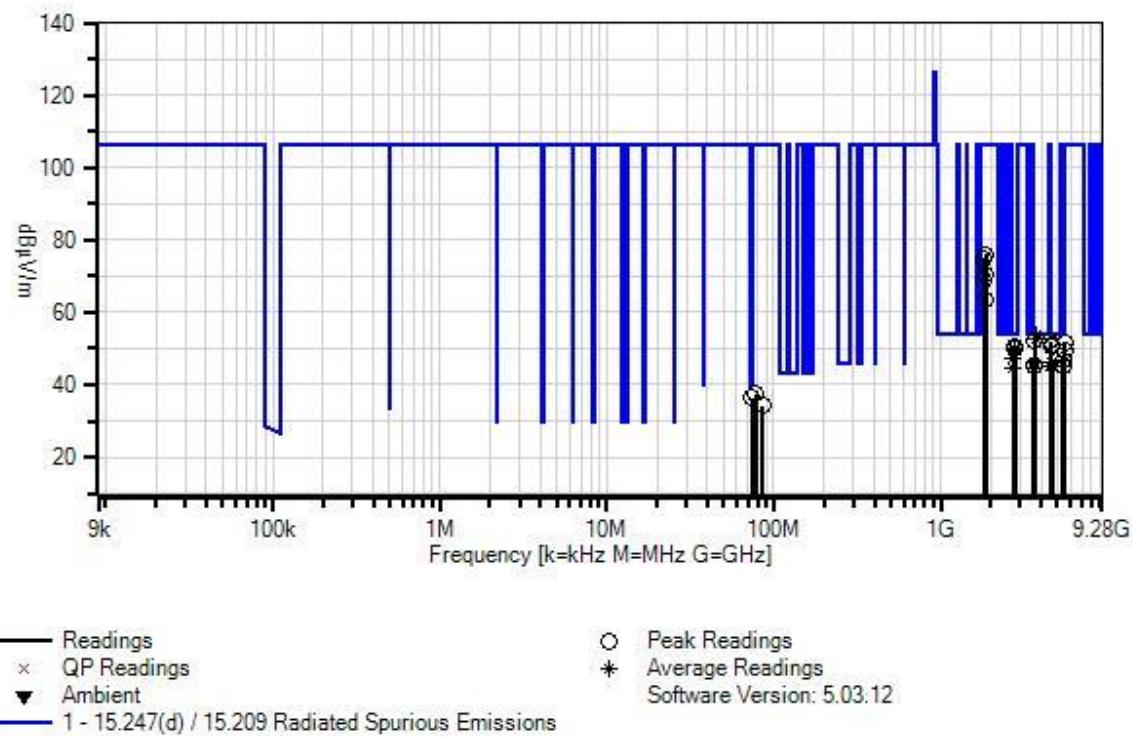
Site A

Test Method: ANSI C63.10 (2013)

Temperature (°C): 23

Relative Humidity (%): 47

Itron, Inc. WO#: 103182 Sequence#: 12 Date: 11/15/2019  
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN01995	Biconilog Antenna	CBL6111C	4/23/2018	4/23/2020
T2	ANP05275	Attenuator	1W	4/5/2018	4/5/2020
T3	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
	AN00309	Preamp	8447D	2/19/2018	2/19/2020
	AN00314	Loop Antenna	6502	5/13/2018	5/13/2020
	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020
T4	AN02672	Spectrum Analyzer	E4446A	3/13/2019	3/13/2021
T5	AN00786	Preamp	83017A	5/12/2018	5/12/2020
T6	AN00849	Horn Antenna	3115	3/14/2018	3/14/2020
T7	ANP07139	Cable	ANDL1- PNMNM-48	3/4/2019	3/4/2021
T8	ANP07244	Cable	32022-29094K- 29094K-24TC	7/5/2018	7/5/2020
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	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			MHz	dB $\mu$ V	dB	dB	dB	Table	dB $\mu$ V/m	dB $\mu$ V/m	
1	3711.200M	55.5	+0.0	+0.0	+0.0	+0.0	+0.0	53.9	54.0	-0.1	Horiz
	Ave		-38.3	+31.9	+4.1	+0.5					
			+0.2								
^	3711.200M	65.0	+0.0	+0.0	+0.0	+0.0	+0.0	63.4	54.0	+9.4	Horiz
			-38.3	+31.9	+4.1	+0.5					
			+0.2								
3	3711.200M	54.0	+0.0	+0.0	+0.0	+0.0	+0.0	52.4	54.0	-1.6	Vert
	Ave		-38.3	+31.9	+4.1	+0.5					
			+0.2								
^	3711.200M	63.4	+0.0	+0.0	+0.0	+0.0	+0.0	61.8	54.0	+7.8	Vert
			-38.3	+31.9	+4.1	+0.5					
			+0.2								
5	3660.000M	54.0	+0.0	+0.0	+0.0	+0.0	+0.0	52.1	54.0	-1.9	Horiz
			-38.3	+31.6	+4.1	+0.5					
			+0.2								
6	4511.000M	51.4	+0.0	+0.0	+0.0	+0.0	+0.0	51.9	54.0	-2.1	Vert
			-37.8	+32.9	+4.5	+0.7					
			+0.2								
7	4575.000M	50.2	+0.0	+0.0	+0.0	+0.0	+0.0	50.9	54.0	-3.1	Vert
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
8	4575.000M	50.0	+0.0	+0.0	+0.0	+0.0	+0.0	50.7	54.0	-3.3	Horiz
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
9	2745.000M	55.9	+0.0	+0.0	+0.0	+0.0	+0.0	50.7	54.0	-3.3	Horiz
			-38.6	+29.4	+3.4	+0.4					
			+0.2								

10	74.200M	22.0	+6.8	+6.0	+1.5	+0.0	+0.0	36.3	40.0	-3.7	Vert
			+0.0	+0.0	+0.0	+0.0	+0.0				
			+0.0								
11	2745.000M	55.2	+0.0	+0.0	+0.0	+0.0	+0.0	50.0	54.0	-4.0	Vert
			-38.6	+29.4	+3.4	+0.4	+0.4				
			+0.2								
12	2783.400M	54.8	+0.0	+0.0	+0.0	+0.0	+0.0	49.8	54.0	-4.2	Horiz
	Ave		-38.6	+29.5	+3.5	+0.4	+0.4				
			+0.2								
^	2783.400M	62.4	+0.0	+0.0	+0.0	+0.0	+0.0	57.4	54.0	+3.4	Horiz
			-38.6	+29.5	+3.5	+0.4	+0.4				
			+0.2								
14	2783.400M	54.7	+0.0	+0.0	+0.0	+0.0	+0.0	49.7	54.0	-4.3	Vert
	Ave		-38.6	+29.5	+3.5	+0.4	+0.4				
			+0.2								
^	2783.400M	62.4	+0.0	+0.0	+0.0	+0.0	+0.0	57.4	54.0	+3.4	Vert
			-38.6	+29.5	+3.5	+0.4	+0.4				
			+0.2								
16	2706.600M	52.7	+0.0	+0.0	+0.0	+0.0	+0.0	47.2	54.0	-6.8	Vert
	Ave		-38.6	+29.1	+3.4	+0.4	+0.4				
			+0.2								
^	2706.600M	60.0	+0.0	+0.0	+0.0	+0.0	+0.0	54.5	54.0	+0.5	Vert
			-38.6	+29.1	+3.4	+0.4	+0.4				
			+0.2								
18	5413.200M	44.5	+0.0	+0.0	+0.0	+0.0	+0.0	46.8	54.0	-7.2	Vert
			-37.5	+33.9	+5.3	+0.4	+0.4				
			+0.2								
19	5413.200M	44.2	+0.0	+0.0	+0.0	+0.0	+0.0	46.5	54.0	-7.5	Horiz
			-37.5	+33.9	+5.3	+0.4	+0.4				
			+0.2								
20	3660.000M	48.3	+0.0	+0.0	+0.0	+0.0	+0.0	46.4	54.0	-7.6	Vert
	Ave		-38.3	+31.6	+4.1	+0.5	+0.5				
			+0.2								
^	3660.000M	54.7	+0.0	+0.0	+0.0	+0.0	+0.0	52.8	54.0	-1.2	Vert
			-38.3	+31.6	+4.1	+0.5	+0.5				
			+0.2								
22	3608.800M	48.6	+0.0	+0.0	+0.0	+0.0	+0.0	46.1	54.0	-7.9	Vert
	Ave		-38.4	+31.1	+4.1	+0.6	+0.6				
			+0.1								
^	3608.800M	56.1	+0.0	+0.0	+0.0	+0.0	+0.0	53.6	54.0	-0.4	Vert
			-38.4	+31.1	+4.1	+0.6	+0.6				
			+0.1								
24	4639.000M	45.4	+0.0	+0.0	+0.0	+0.0	+0.0	46.0	54.0	-8.0	Horiz
	Ave		-37.7	+32.8	+4.7	+0.6	+0.6				
			+0.2								
^	4639.000M	53.1	+0.0	+0.0	+0.0	+0.0	+0.0	53.7	54.0	-0.3	Horiz
			-37.7	+32.8	+4.7	+0.6	+0.6				
			+0.2								

26	4639.000M	44.7	+0.0	+0.0	+0.0	+0.0	+0.0	45.3	54.0	-8.7	Vert
	Ave		-37.7	+32.8	+4.7	+0.6					
			+0.2								
^	4639.000M	52.9	+0.0	+0.0	+0.0	+0.0	+0.0	53.5	54.0	-0.5	Vert
			-37.7	+32.8	+4.7	+0.6					
			+0.2								
28	4511.000M	44.7	+0.0	+0.0	+0.0	+0.0	+0.0	45.2	54.0	-8.8	Horiz
	Ave		-37.8	+32.9	+4.5	+0.7					
			+0.2								
^	4511.000M	53.0	+0.0	+0.0	+0.0	+0.0	+0.0	53.5	54.0	-0.5	Horiz
			-37.8	+32.9	+4.5	+0.7					
			+0.2								
30	3660.000M	46.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.9	54.0	-9.1	Horiz
			-38.3	+31.6	+4.1	+0.5					
			+0.2								
31	2706.600M	50.2	+0.0	+0.0	+0.0	+0.0	+0.0	44.7	54.0	-9.3	Horiz
	Ave		-38.6	+29.1	+3.4	+0.4					
			+0.2								
^	2706.600M	59.6	+0.0	+0.0	+0.0	+0.0	+0.0	54.1	54.0	+0.1	Horiz
			-38.6	+29.1	+3.4	+0.4					
			+0.2								
33	3608.800M	47.2	+0.0	+0.0	+0.0	+0.0	+0.0	44.7	54.0	-9.3	Horiz
	Ave		-38.4	+31.1	+4.1	+0.6					
			+0.1								
^	3608.800M	55.4	+0.0	+0.0	+0.0	+0.0	+0.0	52.9	54.0	-1.1	Horiz
			-38.4	+31.1	+4.1	+0.6					
			+0.1								
35	1855.600M	84.5	+0.0	+0.0	+0.0	+0.0	+0.0	76.0	106.3	-30.3	Horiz
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
36	1804.400M	83.8	+0.0	+0.0	+0.0	+0.0	+0.0	74.9	106.3	-31.4	Horiz
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
37	1830.000M	79.3	+0.0	+0.0	+0.0	+0.0	+0.0	70.5	106.3	-35.8	Vert
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
38	1830.000M	79.3	+0.0	+0.0	+0.0	+0.0	+0.0	70.5	106.3	-35.8	Horiz
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
39	1804.400M	77.7	+0.0	+0.0	+0.0	+0.0	+0.0	68.8	106.3	-37.5	Vert
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
40	1855.630M	71.7	+0.0	+0.0	+0.0	+0.0	+0.0	63.2	106.3	-43.1	Vert
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
41	5566.800M	48.8	+0.0	+0.0	+0.0	+0.0	+0.0	51.4	106.3	-54.9	Vert
			-37.4	+33.9	+5.5	+0.4					
			+0.2								
42	5566.800M	46.9	+0.0	+0.0	+0.0	+0.0	+0.0	49.5	106.3	-56.8	Horiz
			-37.4	+33.9	+5.5	+0.4					
			+0.2								

43	5490.000M	42.6	+0.0	+0.0	+0.0	+0.0	+0.0	45.3	106.3	-61.0	Horiz
			-37.5	+34.1	+5.5	+0.4					
			+0.2								
44	5490.000M	42.2	+0.0	+0.0	+0.0	+0.0	+0.0	44.9	106.3	-61.4	Vert
			-37.5	+34.1	+5.5	+0.4					
			+0.2								
45	77.700M	22.4	+7.4	+6.0	+1.6	+0.0	+0.0	37.4	106.3	-68.9	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
46	85.450M	18.2	+8.3	+6.0	+1.7	+0.0	+0.0	34.2	106.3	-72.1	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **103182** Date: 11/13/2019  
 Test Type: **Maximized Emissions** Time: 16:04:03  
 Tested By: Don Nguyen Sequence#: 10  
 Software: EMITest 5.03.12

***Equipment Tested:***

Device	Manufacturer	Model #	S/N
Configuration 5			

***Support Equipment:***

Device	Manufacturer	Model #	S/N
Configuration 5			

***Test Conditions / Notes:***

The EUT is placed on Styrofoam platform. The serial port is connected to a support laptop via serial to USB adapter. The laptop is running software Command Line Interface Tool to turn on TX.  
 The EUT is powered from fresh battery 6.0Vdc.  
 Modulation: 25kbps GFSK Level 3

Frequency of measurement: 9kHz-9280MHz  
 9 kHz -150 kHz;RBW=200 Hz,VBW=600 Hz;  
 150 kHz-30 MHz;RBW=9 kHz,VBW=27 kHz;  
 30 MHz-1000 MHz;RBW=120 kHz,VBW=360 kHz,  
 1000 MHz-9280MHz;RBW=1 MHz,VBW=3 MHz.  
 RBW=100kHz, VBW=300kHz (-20dbc limit)

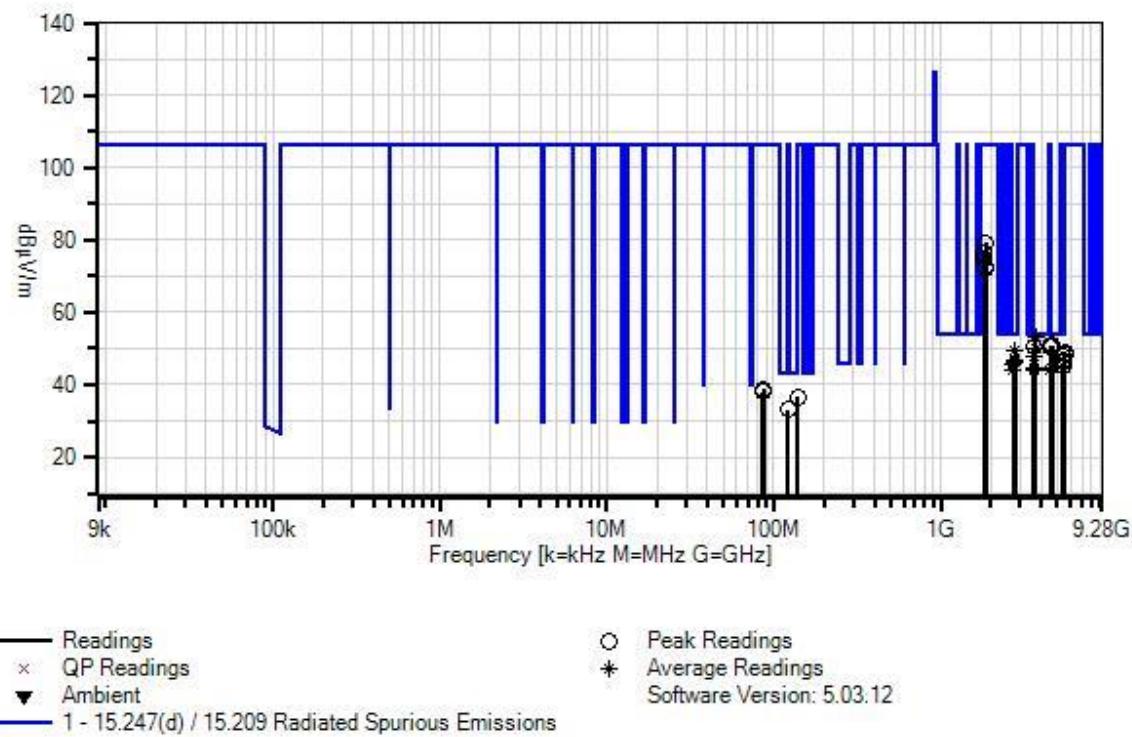
Site A

Test Method: ANSI C63.10 (2013)

Temperature (°C): 23

Relative Humidity (%): 47

Itron, Inc. WO#: 103182 Sequence#: 10 Date: 11/13/2019  
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN01995	Biconilog Antenna	CBL6111C	4/23/2018	4/23/2020
T2	ANP05275	Attenuator	1W	4/5/2018	4/5/2020
T3	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
	AN00309	Preamp	8447D	2/19/2018	2/19/2020
	AN00314	Loop Antenna	6502	5/13/2018	5/13/2020
	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020
T4	AN02672	Spectrum Analyzer	E4446A	3/13/2019	3/13/2021
T5	AN00786	Preamp	83017A	5/12/2018	5/12/2020
T6	AN00849	Horn Antenna	3115	3/14/2018	3/14/2020
T7	ANP07139	Cable	ANDL1- PNMNM-48	3/4/2019	3/4/2021
T8	ANP07244	Cable	32022-29094K- 29094K-24TC	7/5/2018	7/5/2020
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	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			MHz	dB $\mu$ V	dB	dB	dB	Table	dB $\mu$ V/m	dB $\mu$ V/m	
1	3711.000M	55.0	+0.0	+0.0	+0.0	+0.0	+0.0	53.4	54.0	-0.6	Vert
	Ave		-38.3	+31.9	+4.1	+0.5					
			+0.2								
^	3711.000M	64.1	+0.0	+0.0	+0.0	+0.0	+0.0	62.5	54.0	+8.5	Vert
			-38.3	+31.9	+4.1	+0.5					
			+0.2								
3	4638.750M	50.4	+0.0	+0.0	+0.0	+0.0	+0.0	51.0	54.0	-3.0	Vert
			-37.7	+32.8	+4.7	+0.6					
			+0.2								
4	4511.000M	50.1	+0.0	+0.0	+0.0	+0.0	+0.0	50.6	54.0	-3.4	Vert
			-37.8	+32.9	+4.5	+0.7					
			+0.2								
5	3608.800M	52.9	+0.0	+0.0	+0.0	+0.0	+0.0	50.4	54.0	-3.6	Horiz
			-38.4	+31.1	+4.1	+0.6					
			+0.1								
6	4575.000M	49.6	+0.0	+0.0	+0.0	+0.0	+0.0	50.3	54.0	-3.7	Vert
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
7	3711.000M	51.7	+0.0	+0.0	+0.0	+0.0	+0.0	50.1	54.0	-3.9	Horiz
	Ave		-38.3	+31.9	+4.1	+0.5					
			+0.2								
^	3711.000M	59.9	+0.0	+0.0	+0.0	+0.0	+0.0	58.3	54.0	+4.3	Horiz
			-38.3	+31.9	+4.1	+0.5					
			+0.2								

9	2783.250M	54.7	+0.0	+0.0	+0.0	+0.0	+0.0	49.7	54.0	-4.3	Horiz
	Ave		-38.6	+29.5	+3.5	+0.4					
			+0.2								
^	2783.250M	63.3	+0.0	+0.0	+0.0	+0.0	+0.0	58.3	54.0	+4.3	Horiz
			-38.6	+29.5	+3.5	+0.4					
			+0.2								
11	2783.250M	54.3	+0.0	+0.0	+0.0	+0.0	+0.0	49.3	54.0	-4.7	Vert
	Ave		-38.6	+29.5	+3.5	+0.4					
			+0.2								
^	2783.250M	62.0	+0.0	+0.0	+0.0	+0.0	+0.0	57.0	54.0	+3.0	Vert
			-38.6	+29.5	+3.5	+0.4					
			+0.2								
13	3660.000M	49.5	+0.0	+0.0	+0.0	+0.0	+0.0	47.6	54.0	-6.4	Vert
	Ave		-38.3	+31.6	+4.1	+0.5					
			+0.2								
^	3660.000M	58.1	+0.0	+0.0	+0.0	+0.0	+0.0	56.2	54.0	+2.2	Vert
			-38.3	+31.6	+4.1	+0.5					
			+0.2								
15	2745.000M	52.1	+0.0	+0.0	+0.0	+0.0	+0.0	46.9	54.0	-7.1	Horiz
	Ave		-38.6	+29.4	+3.4	+0.4					
			+0.2								
^	2745.000M	60.6	+0.0	+0.0	+0.0	+0.0	+0.0	55.4	54.0	+1.4	Horiz
			-38.6	+29.4	+3.4	+0.4					
			+0.2								
17	2745.000M	51.3	+0.0	+0.0	+0.0	+0.0	+0.0	46.1	54.0	-7.9	Vert
	Ave		-38.6	+29.4	+3.4	+0.4					
			+0.2								
^	2745.000M	60.6	+0.0	+0.0	+0.0	+0.0	+0.0	55.4	54.0	+1.4	Vert
			-38.6	+29.4	+3.4	+0.4					
			+0.2								
19	5413.200M	43.7	+0.0	+0.0	+0.0	+0.0	+0.0	46.0	54.0	-8.0	Horiz
			-37.5	+33.9	+5.3	+0.4					
			+0.2								
20	2706.600M	51.4	+0.0	+0.0	+0.0	+0.0	+0.0	45.9	54.0	-8.1	Horiz
	Ave		-38.6	+29.1	+3.4	+0.4					
			+0.2								
^	2706.600M	58.5	+0.0	+0.0	+0.0	+0.0	+0.0	53.0	54.0	-1.0	Horiz
			-38.6	+29.1	+3.4	+0.4					
			+0.2								
22	5413.200M	42.7	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	54.0	-9.0	Vert
			-37.5	+33.9	+5.3	+0.4					
			+0.2								
23	4638.750M	44.2	+0.0	+0.0	+0.0	+0.0	+0.0	44.8	54.0	-9.2	Horiz
	Ave		-37.7	+32.8	+4.7	+0.6					
			+0.2								
^	4638.750M	52.2	+0.0	+0.0	+0.0	+0.0	+0.0	52.8	54.0	-1.2	Horiz
			-37.7	+32.8	+4.7	+0.6					
			+0.2								

25	4575.000M	44.1	+0.0	+0.0	+0.0	+0.0	+0.0	44.8	54.0	-9.2	Horiz
	Ave		-37.8	+33.0	+4.6	+0.7					
			+0.2								
^	4575.000M	52.4	+0.0	+0.0	+0.0	+0.0	+0.0	53.1	54.0	-0.9	Horiz
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
27	3608.800M	46.9	+0.0	+0.0	+0.0	+0.0	+0.0	44.4	54.0	-9.6	Vert
	Ave		-38.4	+31.1	+4.1	+0.6					
			+0.1								
^	3608.800M	56.8	+0.0	+0.0	+0.0	+0.0	+0.0	54.3	54.0	+0.3	Vert
			-38.4	+31.1	+4.1	+0.6					
			+0.1								
29	3660.000M	46.2	+0.0	+0.0	+0.0	+0.0	+0.0	44.3	54.0	-9.7	Horiz
	Ave		-38.3	+31.6	+4.1	+0.5					
			+0.2								
^	3660.000M	54.9	+0.0	+0.0	+0.0	+0.0	+0.0	53.0	54.0	-1.0	Horiz
			-38.3	+31.6	+4.1	+0.5					
			+0.2								
31	2706.600M	49.6	+0.0	+0.0	+0.0	+0.0	+0.0	44.1	54.0	-9.9	Vert
	Ave		-38.6	+29.1	+3.4	+0.4					
			+0.2								
^	2706.600M	59.3	+0.0	+0.0	+0.0	+0.0	+0.0	53.8	54.0	-0.2	Vert
			-38.6	+29.1	+3.4	+0.4					
			+0.2								
33	4511.000M	43.6	+0.0	+0.0	+0.0	+0.0	+0.0	44.1	54.0	-9.9	Horiz
	Ave		-37.8	+32.9	+4.5	+0.7					
			+0.2								
^	4511.000M	51.6	+0.0	+0.0	+0.0	+0.0	+0.0	52.1	54.0	-1.9	Horiz
			-37.8	+32.9	+4.5	+0.7					
			+0.2								
35	1855.500M	87.8	+0.0	+0.0	+0.0	+0.0	+0.0	79.3	106.3	-27.0	Horiz
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
36	1855.500M	87.4	+0.0	+0.0	+0.0	+0.0	+0.0	78.9	106.3	-27.4	Vert
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
37	1804.400M	85.3	+0.0	+0.0	+0.0	+0.0	+0.0	76.4	106.3	-29.9	Vert
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
38	1804.400M	83.9	+0.0	+0.0	+0.0	+0.0	+0.0	75.0	106.3	-31.3	Horiz
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
39	1830.000M	81.6	+0.0	+0.0	+0.0	+0.0	+0.0	72.8	106.3	-33.5	Horiz
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
40	1830.000M	80.7	+0.0	+0.0	+0.0	+0.0	+0.0	71.9	106.3	-34.4	Vert
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
41	5566.500M	46.3	+0.0	+0.0	+0.0	+0.0	+0.0	48.9	106.3	-57.4	Vert
			-37.4	+33.9	+5.5	+0.4					
			+0.2								

42	5566.500M	45.8	+0.0	+0.0	+0.0	+0.0	+0.0	48.4	106.3	-57.9	Horiz
			-37.4	+33.9	+5.5	+0.4					
			+0.2								
43	5490.000M	45.0	+0.0	+0.0	+0.0	+0.0	+0.0	47.7	106.3	-58.6	Horiz
			-37.5	+34.1	+5.5	+0.4					
			+0.2								
44	5490.000M	44.1	+0.0	+0.0	+0.0	+0.0	+0.0	46.8	106.3	-59.5	Vert
			-37.5	+34.1	+5.5	+0.4					
			+0.2								
45	87.020M	22.8	+8.4	+6.0	+1.7	+0.0	+0.0	38.9	106.3	-67.4	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
46	86.220M	22.0	+8.4	+6.0	+1.7	+0.0	+0.0	38.1	106.3	-68.2	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
47	139.720M	16.8	+11.7	+6.0	+2.1	+0.0	+0.0	36.6	106.3	-69.7	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
48	122.320M	13.5	+11.8	+6.0	+1.9	+0.0	+0.0	33.2	106.3	-73.1	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112  
 Customer: **Itron, Inc.**  
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**  
 Work Order #: **103182** Date: 11/14/2019  
 Test Type: **Maximized Emissions** Time: 10:45:04  
 Tested By: Don Nguyen Sequence#: 11  
 Software: EMITest 5.03.12

***Equipment Tested:***

Device	Manufacturer	Model #	S/N
Configuration 5			

***Support Equipment:***

Device	Manufacturer	Model #	S/N
Configuration 5			

***Test Conditions / Notes:***

The EUT is placed on Styrofoam platform. The serial port is connected to a support laptop via serial to USB adapter. The laptop is running software Command Line Interface Tool to turn on TX.  
 The EUT is powered from fresh battery 6.0Vdc.  
 Modulation: 50kbps GFSK Level 3

Frequency of measurement: 9kHz-9280MHz  
 9 kHz -150 kHz;RBW=200 Hz,VBW=600 Hz;  
 150 kHz-30 MHz;RBW=9 kHz,VBW=27 kHz;  
 30 MHz-1000 MHz;RBW=120 kHz,VBW=360 kHz,  
 1000 MHz-9280MHz;RBW=1 MHz,VBW=3 MHz.  
 RBW=100kHz, VBW=300kHz (-20dbc limit)

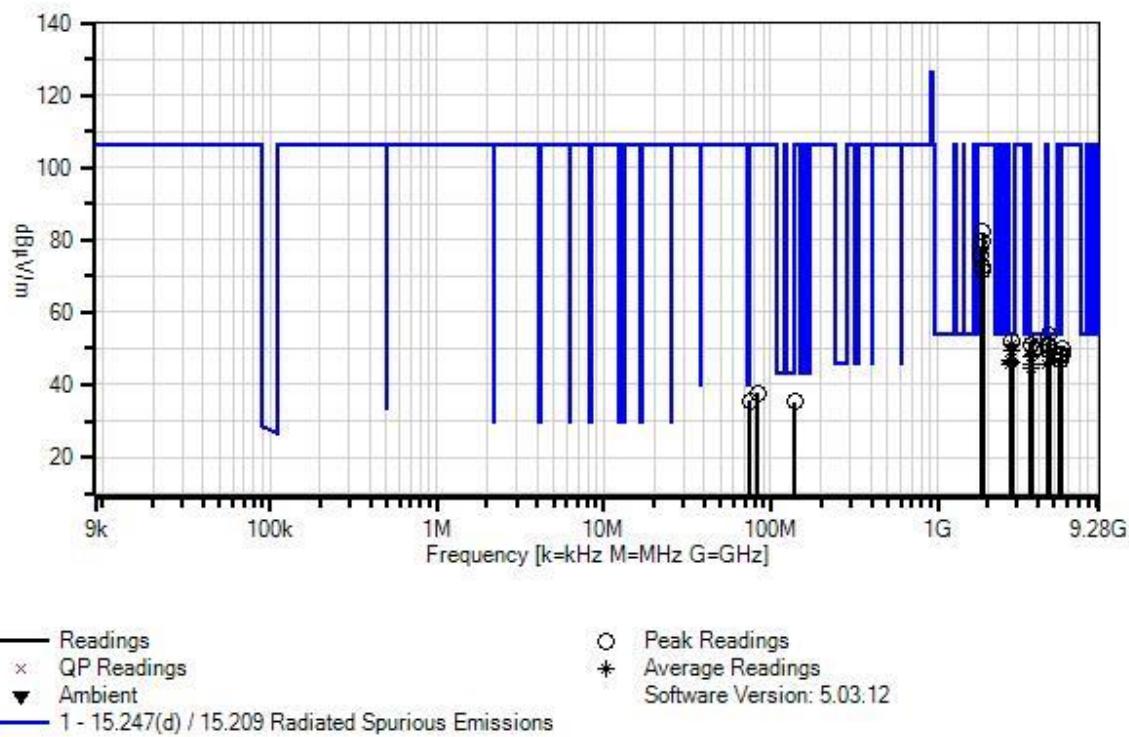
Site A

Test Method: ANSI C63.10 (2013)

Temperature (°C): 23

Relative Humidity (%): 47

Itron, Inc. WO#: 103182 Sequence#: 11 Date: 11/14/2019  
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Vert



**Test Equipment:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN01995	Biconilog Antenna	CBL6111C	4/23/2018	4/23/2020
T2	ANP05275	Attenuator	1W	4/5/2018	4/5/2020
T3	ANP05198	Cable-Amplitude +15C to +45C (dB)	8268	12/4/2018	12/4/2020
	AN00309	Preamp	8447D	2/19/2018	2/19/2020
	AN00314	Loop Antenna	6502	5/13/2018	5/13/2020
	ANP05050	Cable	RG223/U	12/24/2018	12/24/2020
T4	AN02672	Spectrum Analyzer	E4446A	3/13/2019	3/13/2021
T5	AN00786	Preamp	83017A	5/12/2018	5/12/2020
T6	AN00849	Horn Antenna	3115	3/14/2018	3/14/2020
T7	ANP07139	Cable	ANDL1- PNMNM-48	3/4/2019	3/4/2021
T8	ANP07244	Cable	32022-29094K- 29094K-24TC	7/5/2018	7/5/2020
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	T2	T3	T4	Dist	Corr	Spec	Margin	Polar	
			T5	T6	T7	T8						
			MHz	dB $\mu$ V	dB	dB	dB	Table	dB $\mu$ V/m	dB $\mu$ V/m	dB	Ant
1	4639.000M	52.9	+0.0	+0.0	+0.0	+0.0	+0.0	53.5	54.0	-0.5	Horiz	
			-37.7	+32.8	+4.7	+0.6						
			+0.2									
2	2745.000M	57.2	+0.0	+0.0	+0.0	+0.0	+0.0	52.0	54.0	-2.0	Vert	
			-38.6	+29.4	+3.4	+0.4						
			+0.2									
3	3711.200M	53.4	+0.0	+0.0	+0.0	+0.0	+0.0	51.8	54.0	-2.2	Vert	
	Ave		-38.3	+31.9	+4.1	+0.5						
			+0.2									
^	3711.200M	60.7	+0.0	+0.0	+0.0	+0.0	+0.0	59.1	54.0	+5.1	Vert	
			-38.3	+31.9	+4.1	+0.5						
			+0.2									
5	4639.000M	50.6	+0.0	+0.0	+0.0	+0.0	+0.0	51.2	54.0	-2.8	Vert	
			-37.7	+32.8	+4.7	+0.6						
			+0.2									
6	3608.800M	53.7	+0.0	+0.0	+0.0	+0.0	+0.0	51.2	54.0	-2.8	Horiz	
			-38.4	+31.1	+4.1	+0.6						
			+0.1									
7	4511.000M	50.7	+0.0	+0.0	+0.0	+0.0	+0.0	51.2	54.0	-2.8	Vert	
			-37.8	+32.9	+4.5	+0.7						
			+0.2									
8	2783.400M	56.1	+0.0	+0.0	+0.0	+0.0	+0.0	51.1	54.0	-2.9	Vert	
	Ave		-38.6	+29.5	+3.5	+0.4						
			+0.2									
^	2783.400M	63.9	+0.0	+0.0	+0.0	+0.0	+0.0	58.9	54.0	+4.9	Vert	
			-38.6	+29.5	+3.5	+0.4						
			+0.2									

10	4575.000M	49.6	+0.0	+0.0	+0.0	+0.0	+0.0	50.3	54.0	-3.7	Vert
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
11	4575.000M	48.9	+0.0	+0.0	+0.0	+0.0	+0.0	49.6	54.0	-4.4	Horiz
			-37.8	+33.0	+4.6	+0.7					
			+0.2								
12	2783.400M	54.6	+0.0	+0.0	+0.0	+0.0	+0.0	49.6	54.0	-4.4	Horiz
	Ave		-38.6	+29.5	+3.5	+0.4					
			+0.2								
^	2783.400M	62.4	+0.0	+0.0	+0.0	+0.0	+0.0	57.4	54.0	+3.4	Horiz
			-38.6	+29.5	+3.5	+0.4					
			+0.2								
14	3711.200M	50.1	+0.0	+0.0	+0.0	+0.0	+0.0	48.5	54.0	-5.5	Horiz
	Ave		-38.3	+31.9	+4.1	+0.5					
			+0.2								
^	3711.200M	58.5	+0.0	+0.0	+0.0	+0.0	+0.0	56.9	54.0	+2.9	Horiz
			-38.3	+31.9	+4.1	+0.5					
			+0.2								
16	3608.800M	50.3	+0.0	+0.0	+0.0	+0.0	+0.0	47.8	54.0	-6.2	Vert
	Ave		-38.4	+31.1	+4.1	+0.6					
			+0.1								
^	3608.800M	57.4	+0.0	+0.0	+0.0	+0.0	+0.0	54.9	54.0	+0.9	Vert
			-38.4	+31.1	+4.1	+0.6					
			+0.1								
18	5413.200M	45.5	+0.0	+0.0	+0.0	+0.0	+0.0	47.8	54.0	-6.2	Horiz
			-37.5	+33.9	+5.3	+0.4					
			+0.2								
19	2706.600M	52.1	+0.0	+0.0	+0.0	+0.0	+0.0	46.6	54.0	-7.4	Horiz
	Ave		-38.6	+29.1	+3.4	+0.4					
			+0.2								
^	2706.600M	60.6	+0.0	+0.0	+0.0	+0.0	+0.0	55.1	54.0	+1.1	Horiz
			-38.6	+29.1	+3.4	+0.4					
			+0.2								
21	5413.200M	44.2	+0.0	+0.0	+0.0	+0.0	+0.0	46.5	54.0	-7.5	Vert
			-37.5	+33.9	+5.3	+0.4					
			+0.2								
22	2745.000M	51.2	+0.0	+0.0	+0.0	+0.0	+0.0	46.0	54.0	-8.0	Horiz
	Ave		-38.6	+29.4	+3.4	+0.4					
			+0.2								
^	2745.000M	59.0	+0.0	+0.0	+0.0	+0.0	+0.0	53.8	54.0	-0.2	Horiz
			-38.6	+29.4	+3.4	+0.4					
			+0.2								
24	2706.600M	51.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.8	54.0	-8.2	Vert
	Ave		-38.6	+29.1	+3.4	+0.4					
			+0.2								
^	2706.600M	58.7	+0.0	+0.0	+0.0	+0.0	+0.0	53.2	54.0	-0.8	Vert
			-38.6	+29.1	+3.4	+0.4					
			+0.2								

26	4511.000M	45.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.6	54.0	-8.4	Horiz
	Ave		-37.8	+32.9	+4.5	+0.7					
			+0.2								
^	4511.000M	53.7	+0.0	+0.0	+0.0	+0.0	+0.0	54.2	54.0	+0.2	Horiz
			-37.8	+32.9	+4.5	+0.7					
			+0.2								
28	3660.000M	47.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.4	54.0	-8.6	Vert
	Ave		-38.3	+31.6	+4.1	+0.5					
			+0.2								
^	3660.000M	54.9	+0.0	+0.0	+0.0	+0.0	+0.0	53.0	54.0	-1.0	Vert
			-38.3	+31.6	+4.1	+0.5					
			+0.2								
30	3660.000M	46.3	+0.0	+0.0	+0.0	+0.0	+0.0	44.4	54.0	-9.6	Horiz
	Ave		-38.3	+31.6	+4.1	+0.5					
			+0.2								
^	3660.000M	54.3	+0.0	+0.0	+0.0	+0.0	+0.0	52.4	54.0	-1.6	Horiz
			-38.3	+31.6	+4.1	+0.5					
			+0.2								
32	1855.600M	90.8	+0.0	+0.0	+0.0	+0.0	+0.0	82.3	106.3	-24.0	Horiz
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
33	1855.600M	88.2	+0.0	+0.0	+0.0	+0.0	+0.0	79.7	106.3	-26.6	Vert
			-38.9	+27.3	+2.7	+0.2					
			+0.2								
34	1804.400M	86.7	+0.0	+0.0	+0.0	+0.0	+0.0	77.8	106.3	-28.5	Horiz
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
35	1804.400M	84.9	+0.0	+0.0	+0.0	+0.0	+0.0	76.0	106.3	-30.3	Vert
			-38.9	+27.0	+2.6	+0.2					
			+0.2								
36	1830.000M	81.6	+0.0	+0.0	+0.0	+0.0	+0.0	72.8	106.3	-33.5	Horiz
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
37	1830.000M	80.6	+0.0	+0.0	+0.0	+0.0	+0.0	71.8	106.3	-34.5	Vert
			-38.9	+27.1	+2.6	+0.2					
			+0.2								
38	5566.800M	47.5	+0.0	+0.0	+0.0	+0.0	+0.0	50.1	106.3	-56.2	Horiz
			-37.4	+33.9	+5.5	+0.4					
			+0.2								
39	5490.000M	45.7	+0.0	+0.0	+0.0	+0.0	+0.0	48.4	106.3	-57.9	Horiz
			-37.5	+34.1	+5.5	+0.4					
			+0.2								

40	5490.000M	45.6	+0.0	+0.0	+0.0	+0.0	+0.0	48.3	106.3	-58.0	Vert
			-37.5	+34.1	+5.5	+0.4					
			+0.2								
41	5566.800M	45.5	+0.0	+0.0	+0.0	+0.0	+0.0	48.1	106.3	-58.2	Vert
			-37.4	+33.9	+5.5	+0.4					
			+0.2								
42	83.600M	22.1	+8.1	+6.0	+1.6	+0.0	+0.0	37.8	106.3	-68.5	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
43	74.700M	21.1	+6.9	+6.0	+1.5	+0.0	+0.0	35.5	106.3	-70.8	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								
44	139.300M	15.4	+11.7	+6.0	+2.1	+0.0	+0.0	35.2	106.3	-71.1	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								

## Band Edge

### Band Edge Summary-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	25kbps GFSK Level 3	Integral Omni Antenna	42.7	<46	Pass
902	25kbps GFSK Level 3	Integral Omni Antenna	86.5	<107.6	Pass
928	25kbps GFSK Level 3	Integral Omni Antenna	80.5	<107.6	Pass
960	25kbps GFSK Level 3	Integral Omni Antenna	48.8	<54	Pass
614	50kbps GFSK Level 3	Integral Omni Antenna	40.2	<46	Pass
902	50kbps GFSK Level 3	Integral Omni Antenna	93.1	<107.9	Pass
928	50kbps GFSK Level 3	Integral Omni Antenna	88.9	<107.9	Pass
960	50kbps GFSK Level 3	Integral Omni Antenna	47.9	<54	Pass

### Band Edge Summary-Configuration 2

Operating Mode: Hopping

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	25kbps GFSK Level 3	Integral Omni Antenna	42.4	<46	Pass
902	25kbps GFSK Level 3	Integral Omni Antenna	86.0	<107.6	Pass
928	25kbps GFSK Level 3	Integral Omni Antenna	84.2	<107.6	Pass
960	25kbps GFSK Level 3	Integral Omni Antenna	49.2	<54	Pass
614	50kbps GFSK Level 3	Integral Omni Antenna	39.6	<46	Pass
902	50kbps GFSK Level 3	Integral Omni Antenna	91.9	<107.9	Pass
928	50kbps GFSK Level 3	Integral Omni Antenna	91.2	<107.9	Pass
960	50kbps GFSK Level 3	Integral Omni Antenna	47.8	<54	Pass

### Band Edge Summary-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	25kbps GFSK Level 3	Integral Omni Antenna	41.1	<46	Pass
902	25kbps GFSK Level 3	Integral Omni Antenna	82.8	<107.9	Pass
928	25kbps GFSK Level 3	Integral Omni Antenna	78.0	<107.9	Pass
960	25kbps GFSK Level 3	Integral Omni Antenna	46.6	<54	Pass
614	50kbps GFSK Level 3	Integral Omni Antenna	41.3	<46	Pass
902	50kbps GFSK Level 3	Integral Omni Antenna	87.3	<107.9	Pass
928	50kbps GFSK Level 3	Integral Omni Antenna	89.5	<107.9	Pass
960	50kbps GFSK Level 3	Integral Omni Antenna	45.2	<54	Pass

### Band Edge Summary-Configuration 3

Operating Mode: Hopping

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	25kbps GFSK Level 3	Integral Omni Antenna	41.6	<46	Pass
902	25kbps GFSK Level 3	Integral Omni Antenna	80.0	<107.9	Pass
928	25kbps GFSK Level 3	Integral Omni Antenna	77.6	<107.9	Pass
960	25kbps GFSK Level 3	Integral Omni Antenna	46.1	<54	Pass
614	50kbps GFSK Level 3	Integral Omni Antenna	41.2	<46	Pass
902	50kbps GFSK Level 3	Integral Omni Antenna	87.6	<107.9	Pass
928	50kbps GFSK Level 3	Integral Omni Antenna	89.0	<107.9	Pass
960	50kbps GFSK Level 3	Integral Omni Antenna	47.3	<54	Pass

### Band Edge Summary-Configuration 4

Operating Mode: Single Channel (Low and High)

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	25kbps GFSK Level 3	External Omni Antenna	44.2	<46	Pass
902	25kbps GFSK Level 3	External Omni Antenna	75.3	<106.4	Pass
928	25kbps GFSK Level 3	External Omni Antenna	76.1	<106.4	Pass
960	25kbps GFSK Level 3	External Omni Antenna	49.1	<54	Pass
614	50kbps GFSK Level 3	External Omni Antenna	41.1	<46	Pass
902	50kbps GFSK Level 3	External Omni Antenna	81.2	<106.3	Pass
928	50kbps GFSK Level 3	External Omni Antenna	85.8	<106.3	Pass
960	50kbps GFSK Level 3	External Omni Antenna	44.9	<54	Pass

### Band Edge Summary-Configuration 4

Operating Mode: Hopping

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	25kbps GFSK Level 3	External Omni Antenna	44.0	<46	Pass
902	25kbps GFSK Level 3	External Omni Antenna	75.1	<106.4	Pass
928	25kbps GFSK Level 3	External Omni Antenna	76.5	<106.4	Pass
960	25kbps GFSK Level 3	External Omni Antenna	46.9	<54	Pass
614	50kbps GFSK Level 3	External Omni Antenna	41.7	<46	Pass
902	50kbps GFSK Level 3	External Omni Antenna	81.8	<106.3	Pass
928	50kbps GFSK Level 3	External Omni Antenna	83.2	<106.3	Pass
960	50kbps GFSK Level 3	External Omni Antenna	47.7	<54	Pass

### Band Edge Summary-Configuration 5

Operating Mode: Single Channel (Low and High)

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	25kbps GFSK Level 3	External Omni Antenna	40.6	<46	Pass
902	25kbps GFSK Level 3	External Omni Antenna	76.0	<106.3	Pass
928	25kbps GFSK Level 3	External Omni Antenna	78.0	<106.3	Pass
960	25kbps GFSK Level 3	External Omni Antenna	49.2	<54	Pass
614	50kbps GFSK Level 3	External Omni Antenna	43.3	<46	Pass
902	50kbps GFSK Level 3	External Omni Antenna	83.3	<106.3	Pass
928	50kbps GFSK Level 3	External Omni Antenna	87.8	<106.3	Pass
960	50kbps GFSK Level 3	External Omni Antenna	48.3	<54	Pass

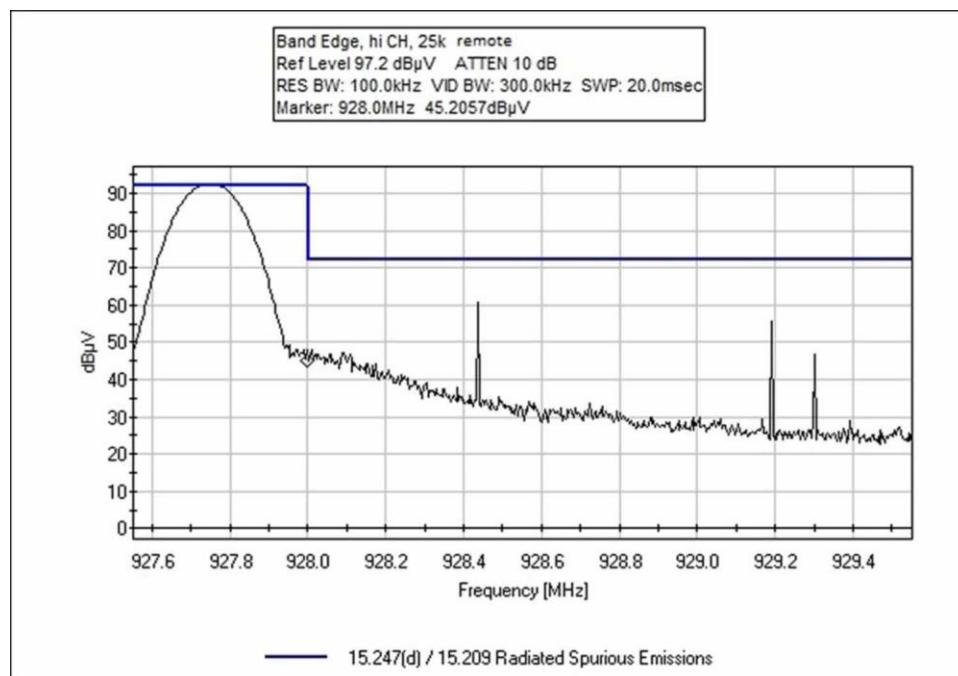
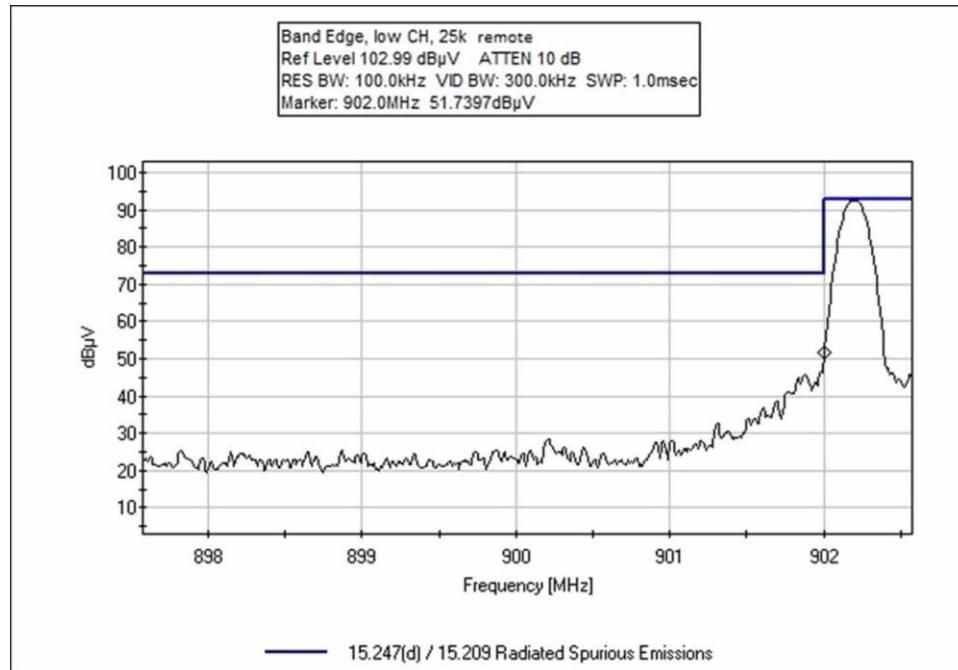
### Band Edge Summary-Configuration 5

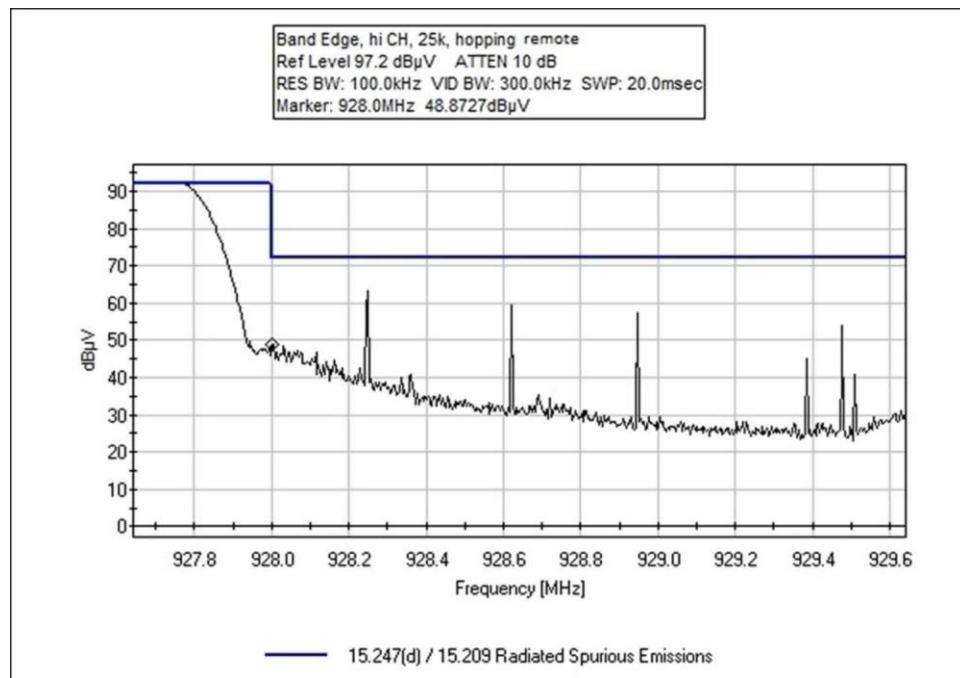
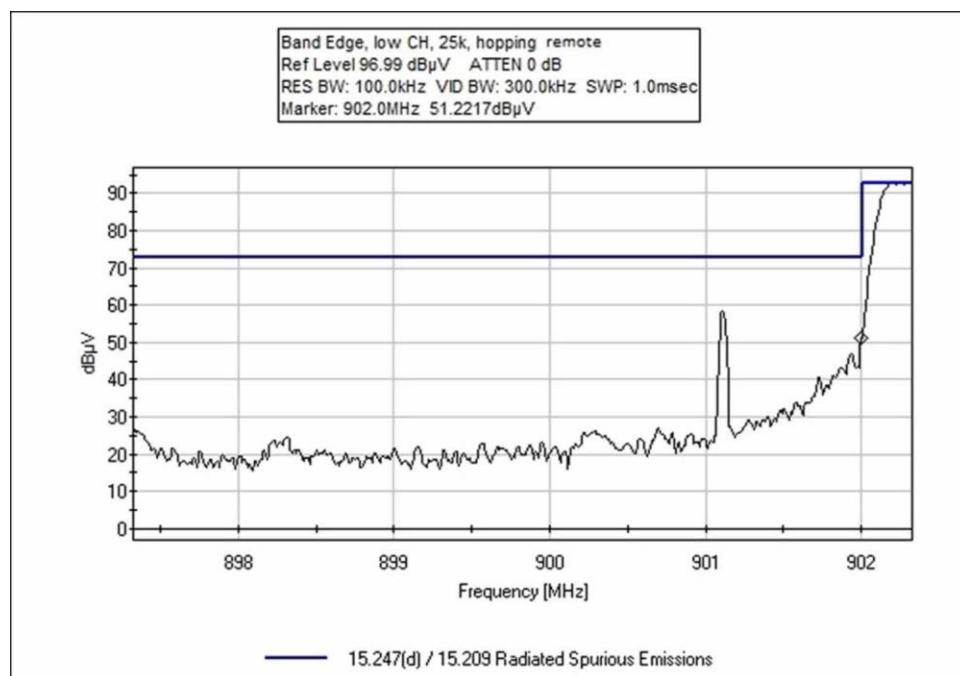
Operating Mode: Hopping

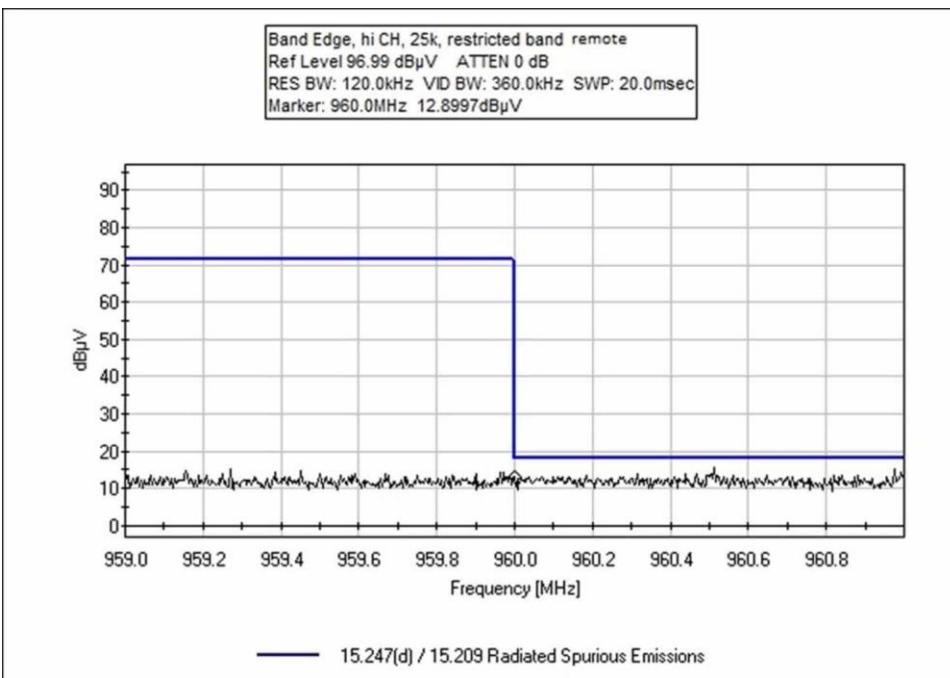
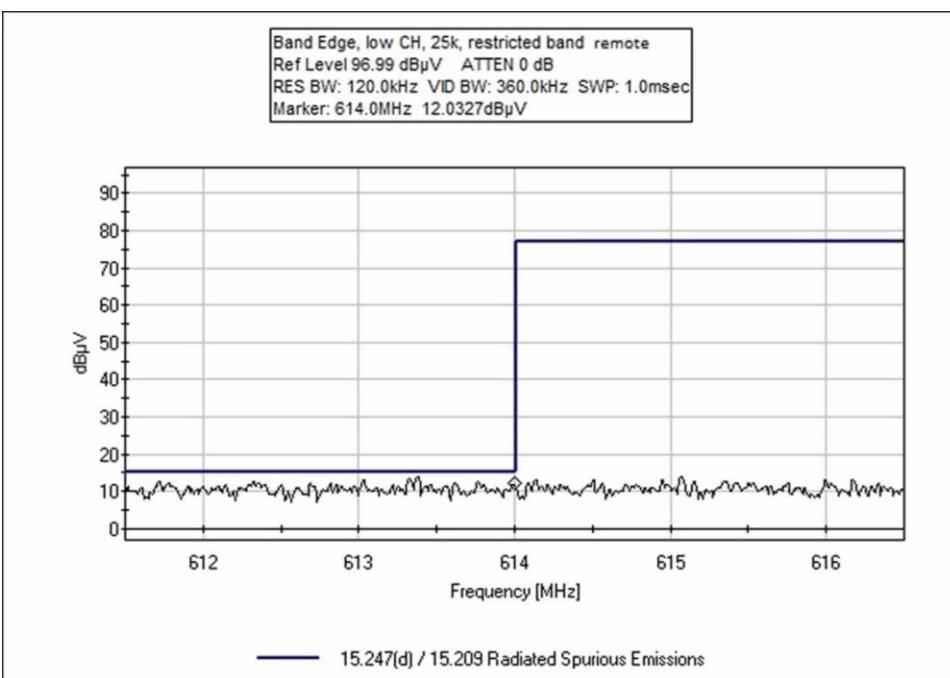
Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
614	25kbps GFSK Level 3	External Omni Antenna	46.0	<46	Pass
902	25kbps GFSK Level 3	External Omni Antenna	77.8	<106.3	Pass
928	25kbps GFSK Level 3	External Omni Antenna	81.2	<106.3	Pass
960	25kbps GFSK Level 3	External Omni Antenna	46.9	<54	Pass
614	50kbps GFSK Level 3	External Omni Antenna	41.3	<46	Pass
902	50kbps GFSK Level 3	External Omni Antenna	83.9	<106.3	Pass
928	50kbps GFSK Level 3	External Omni Antenna	87.0	<106.3	Pass
960	50kbps GFSK Level 3	External Omni Antenna	46.8	<54	Pass

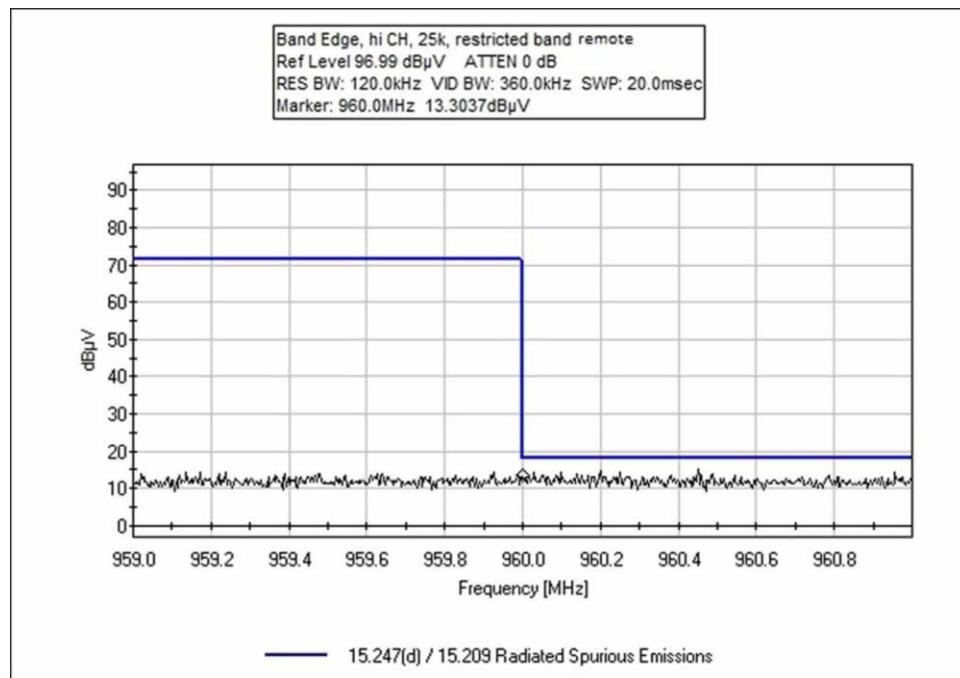
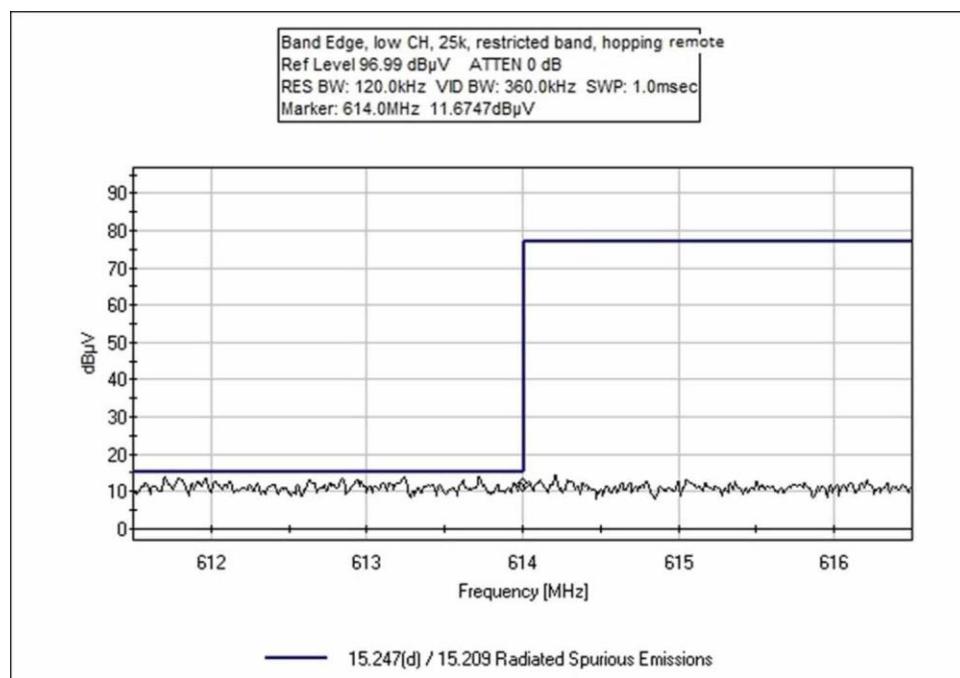
## Band Edge Plots

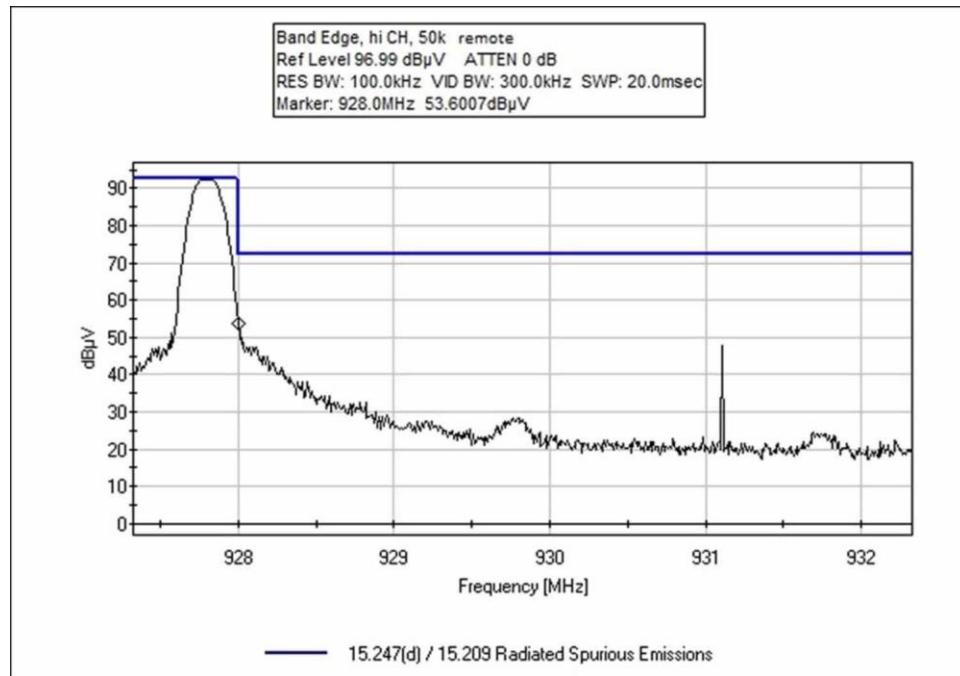
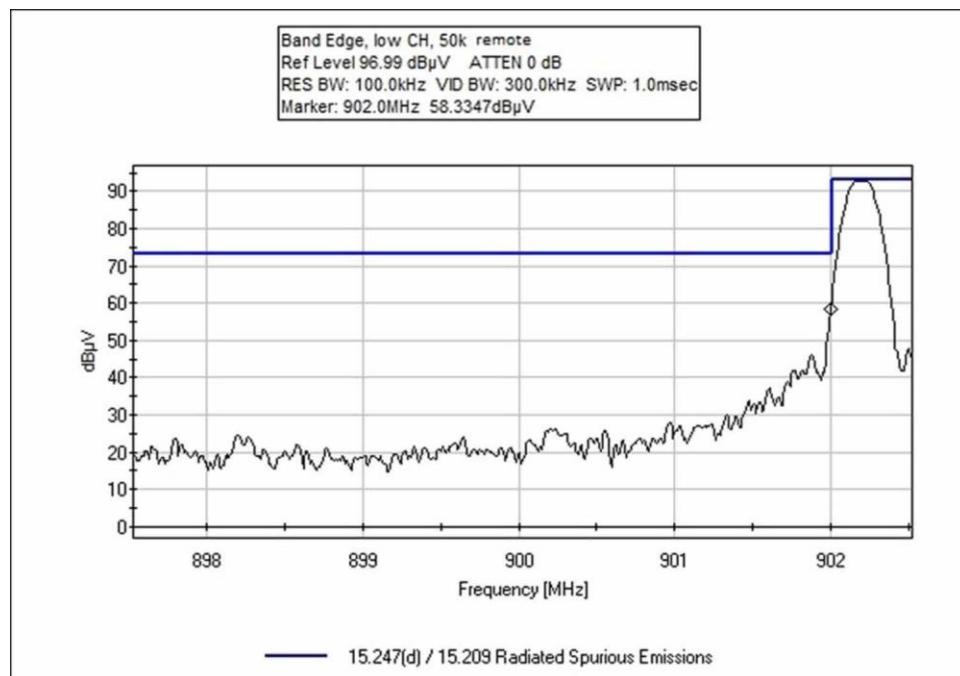
### Configuration 2

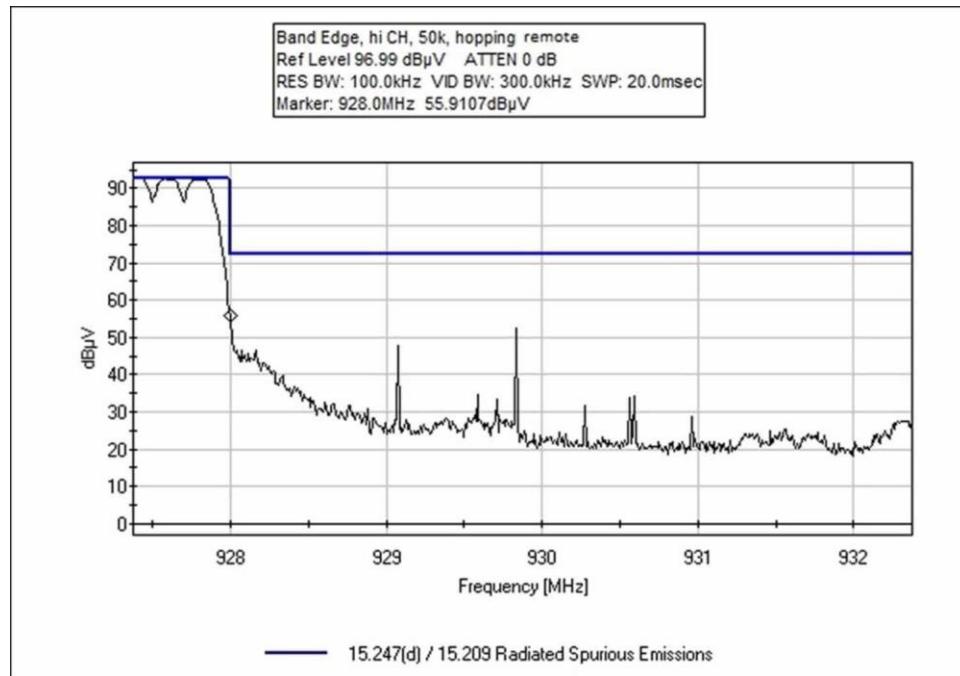
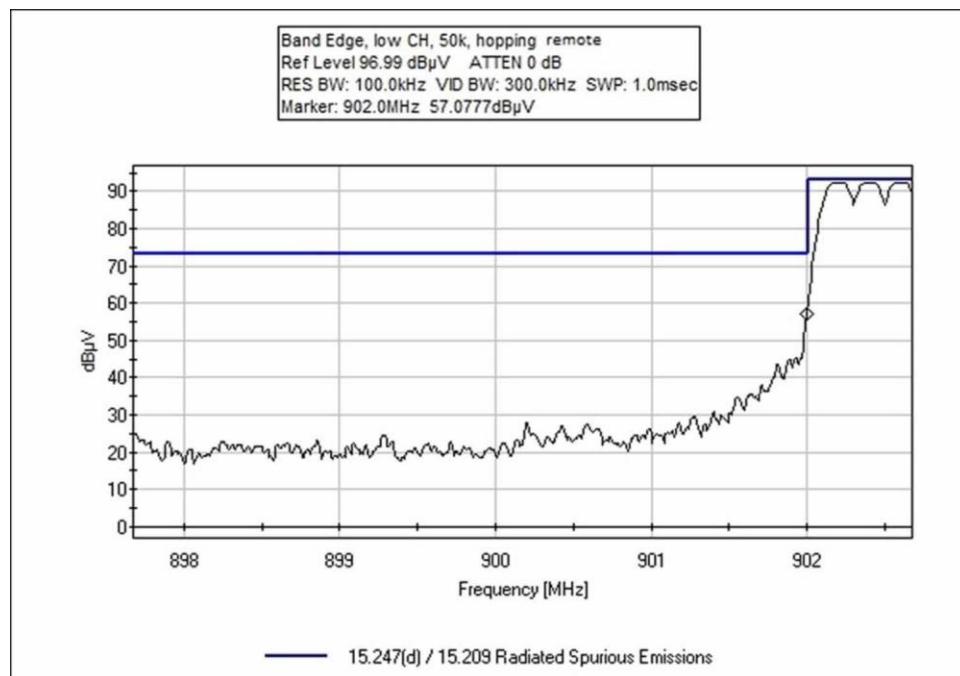


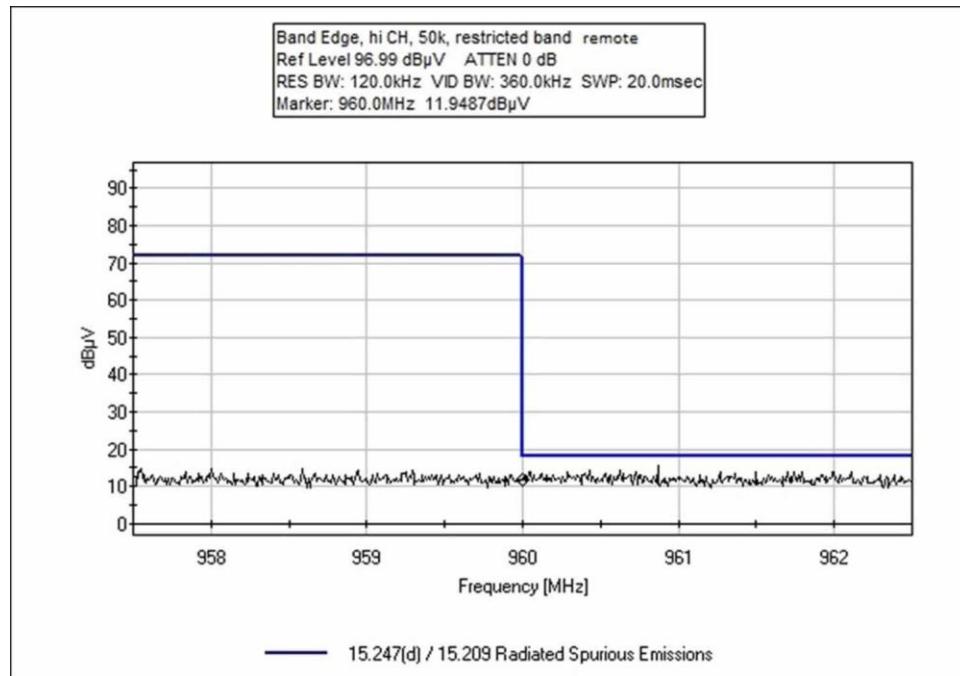
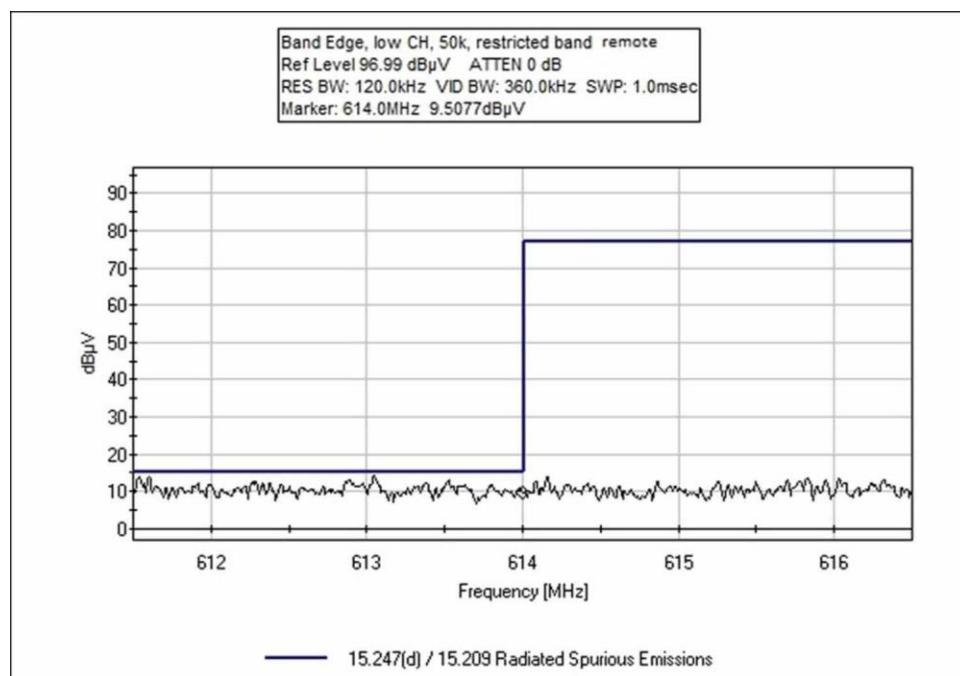


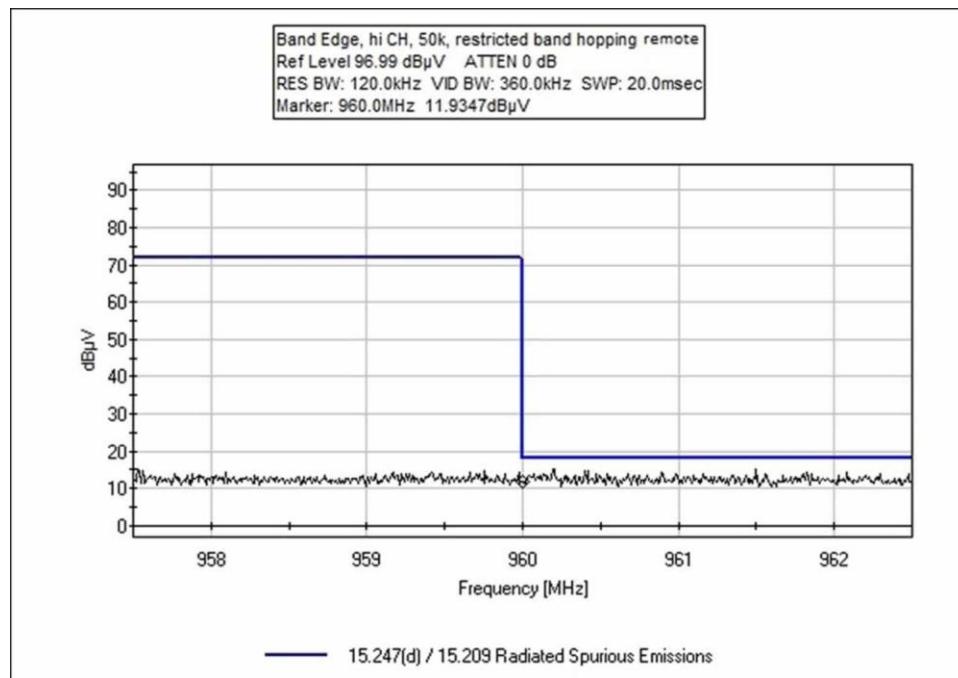
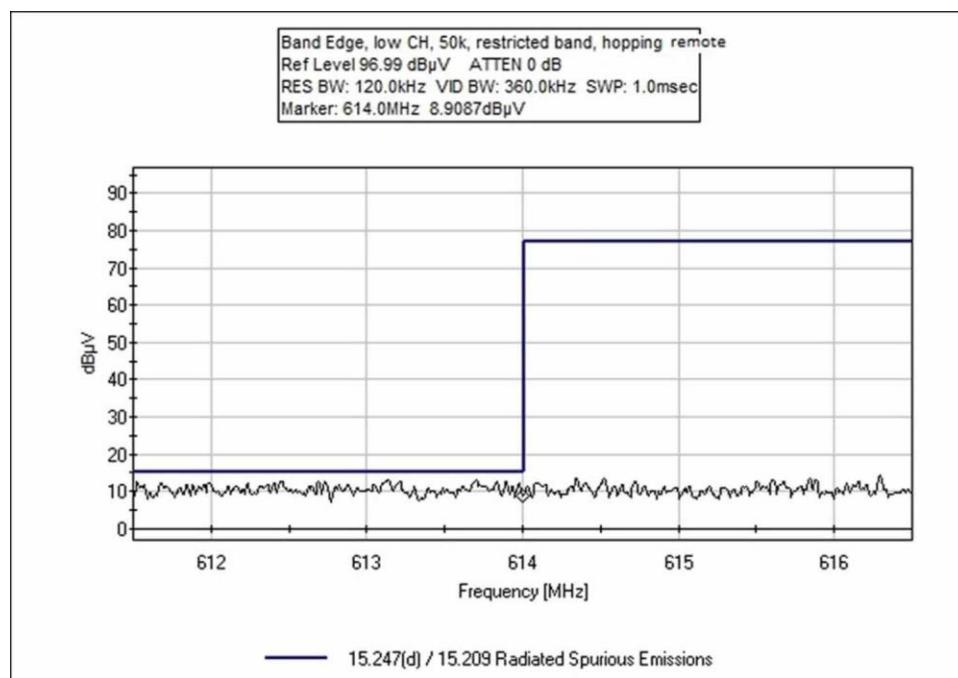


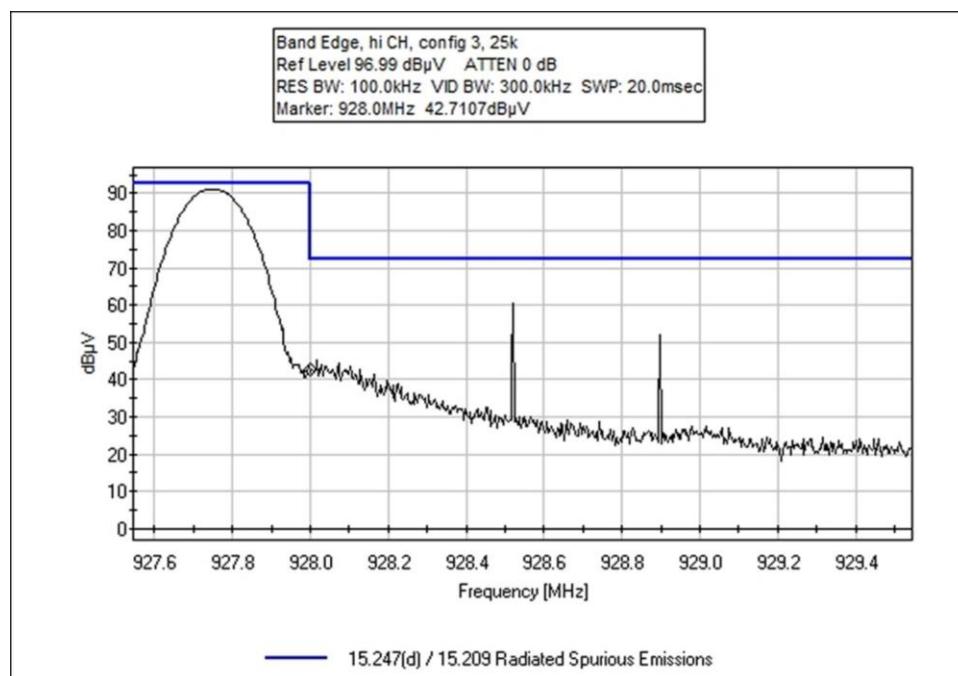
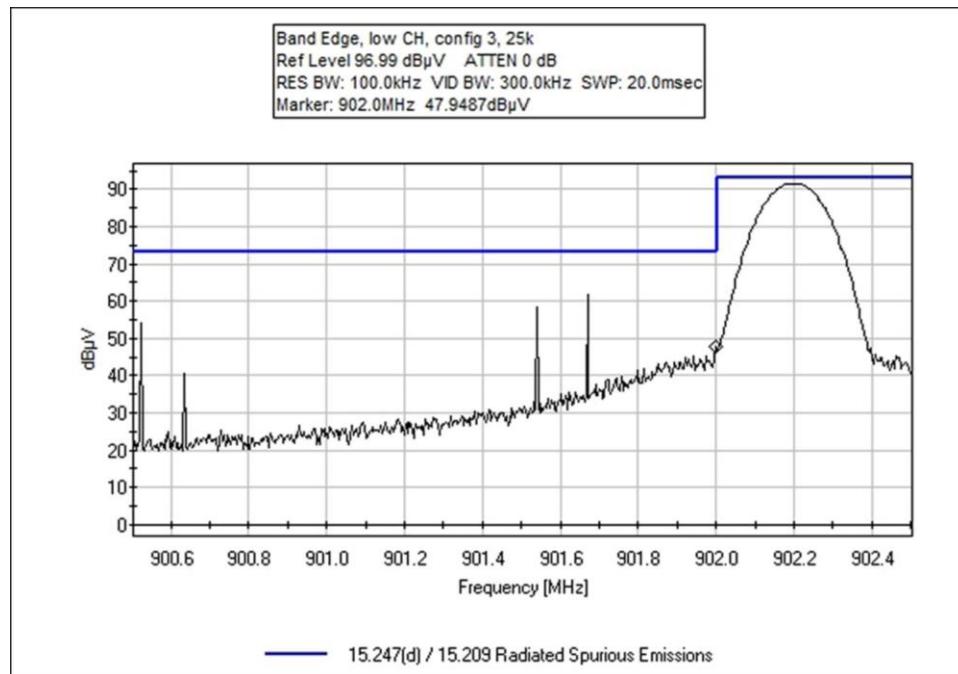


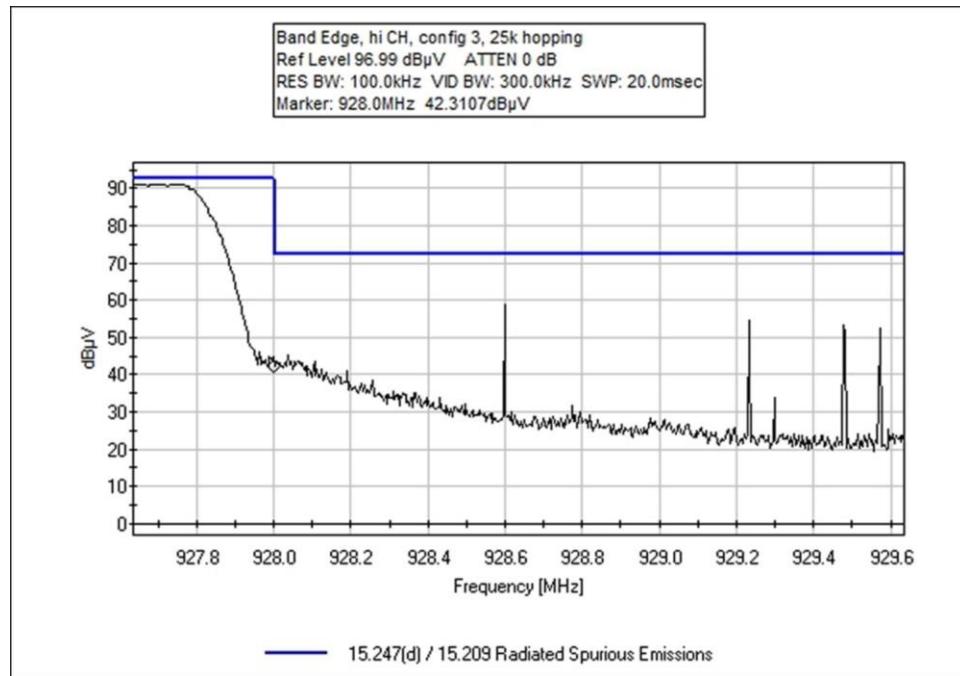
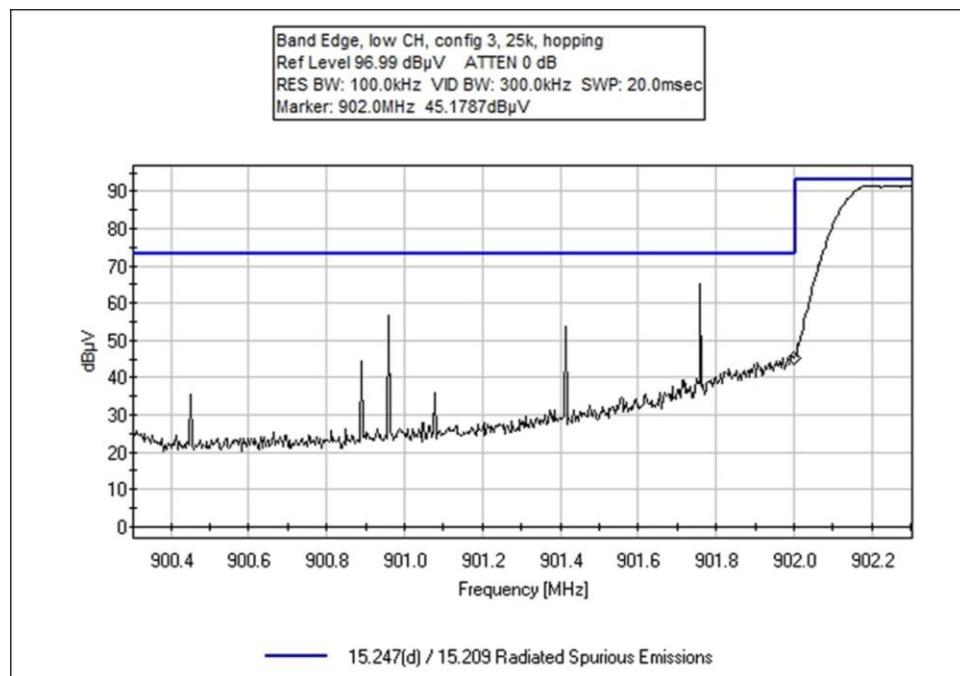


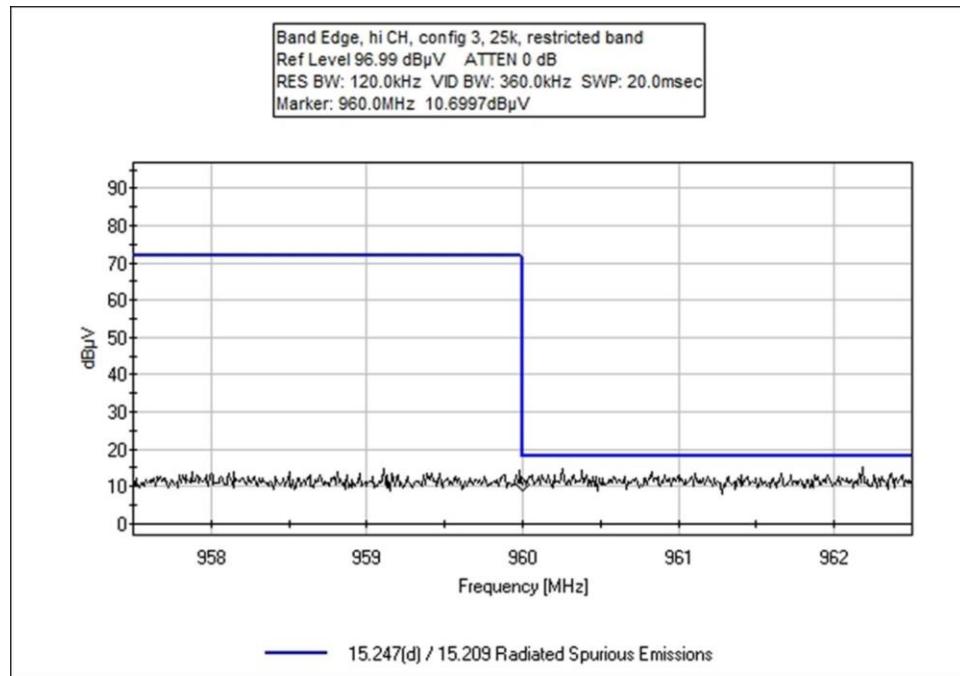
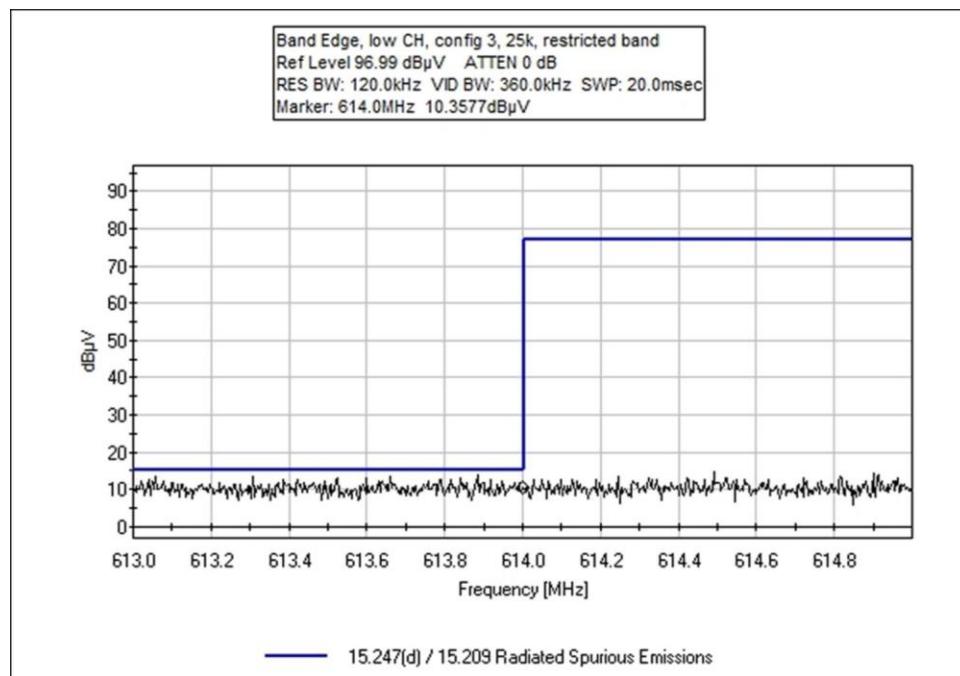


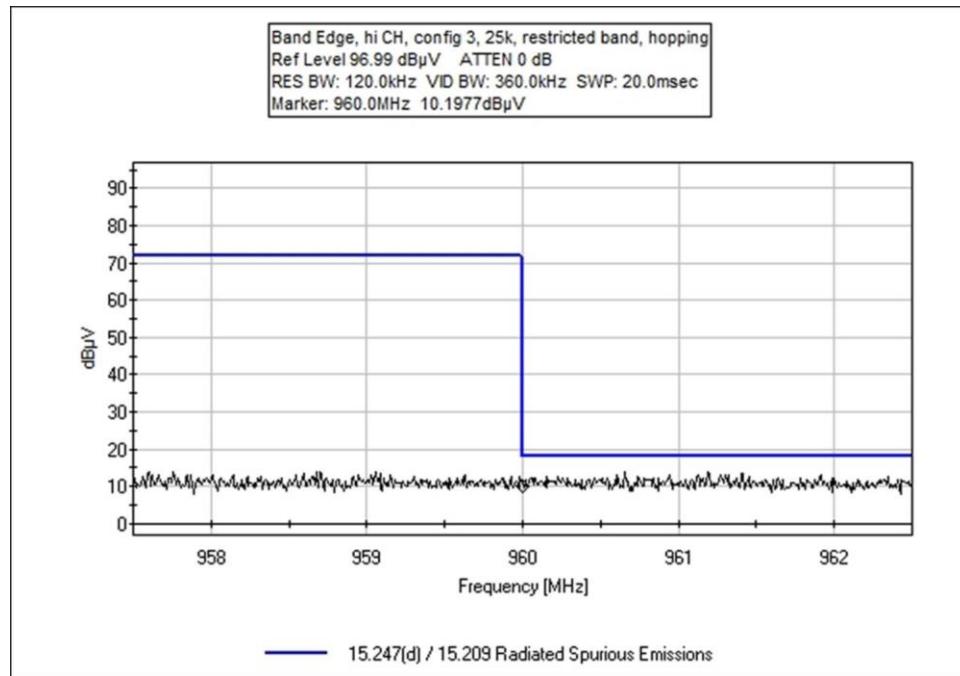
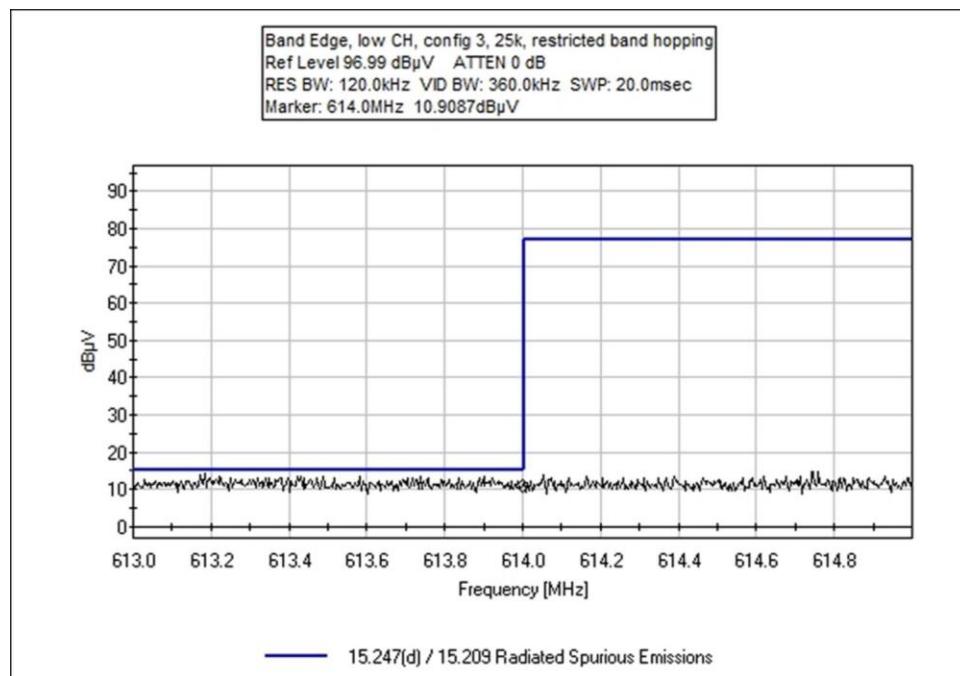


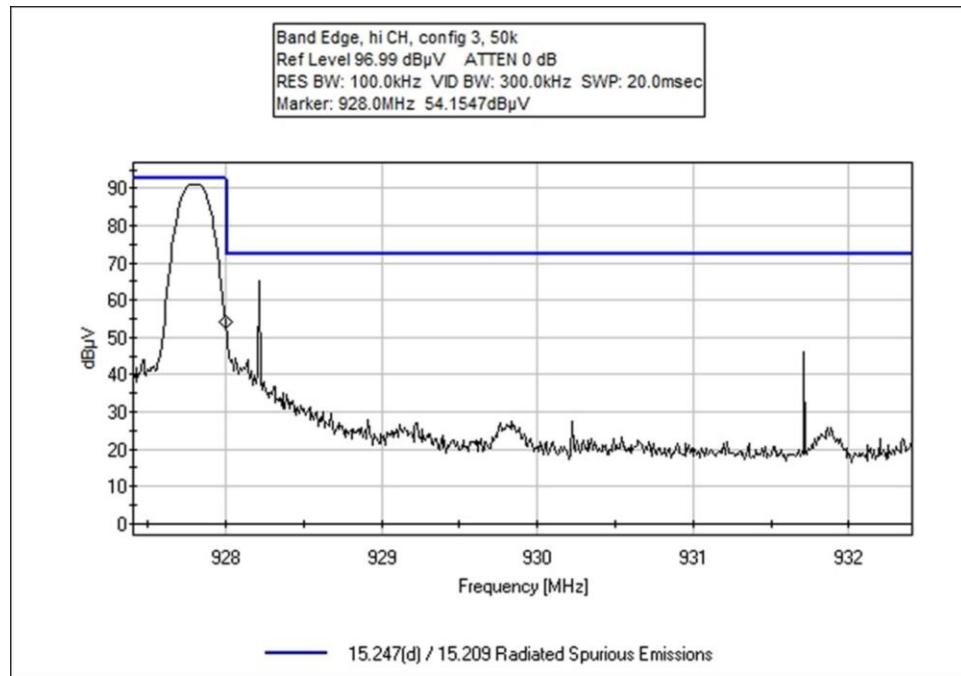
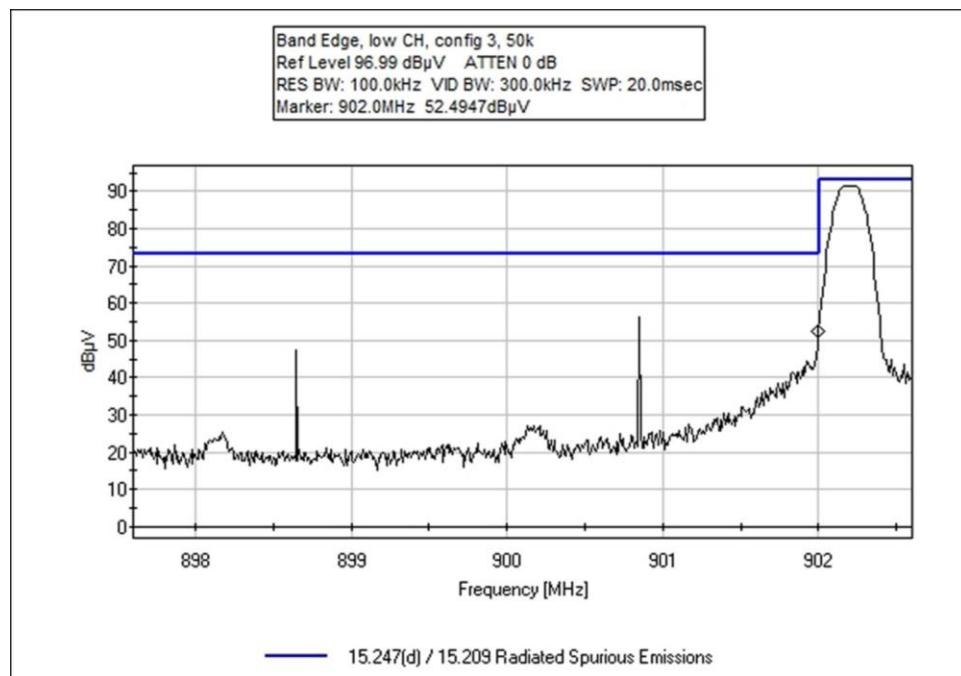


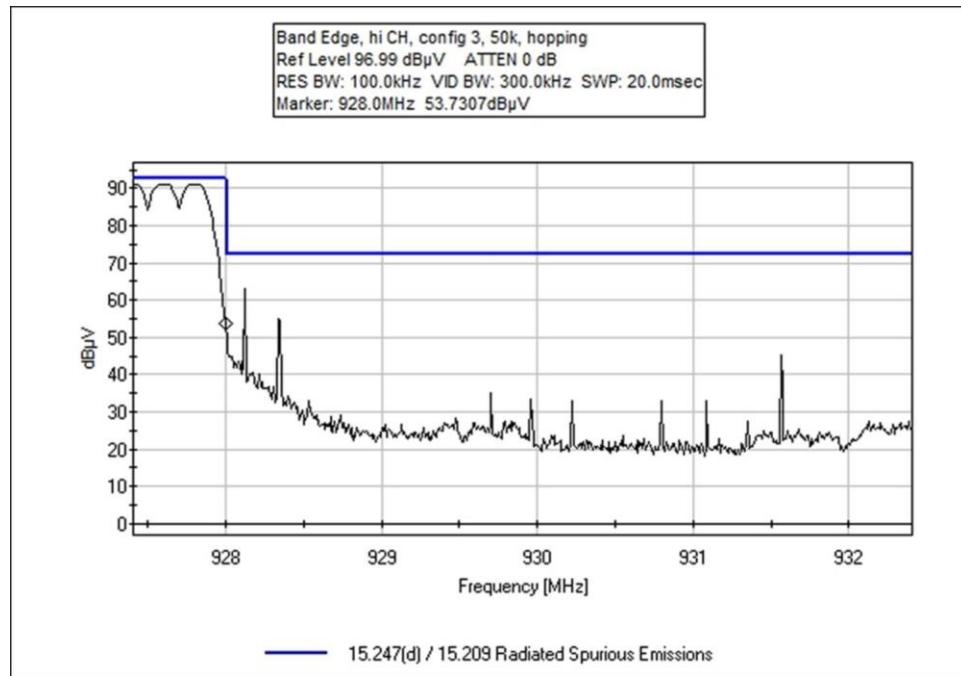
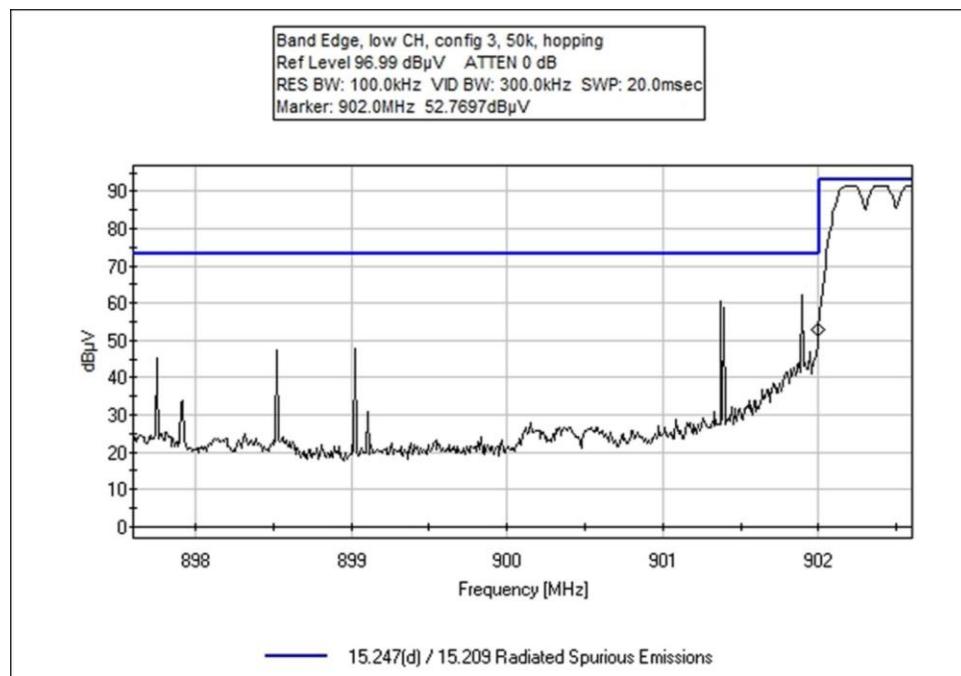
Configuration 3


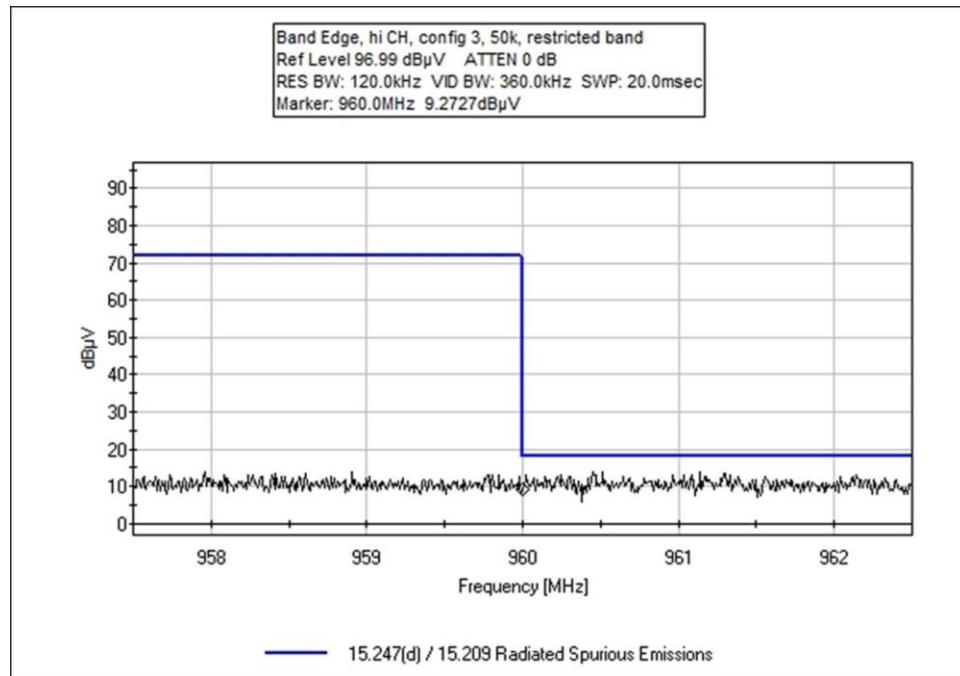
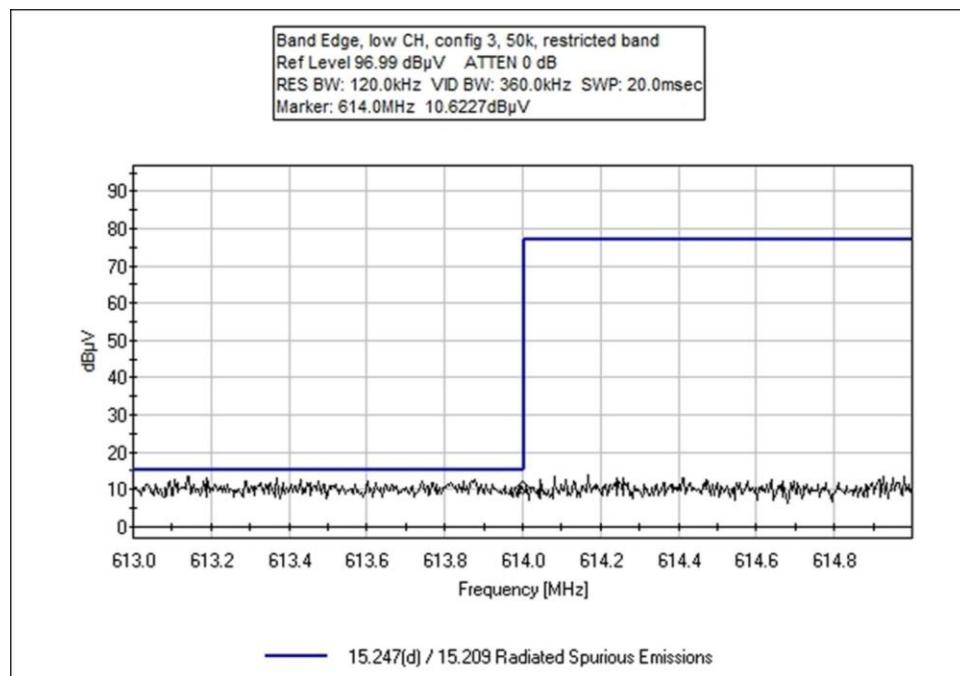


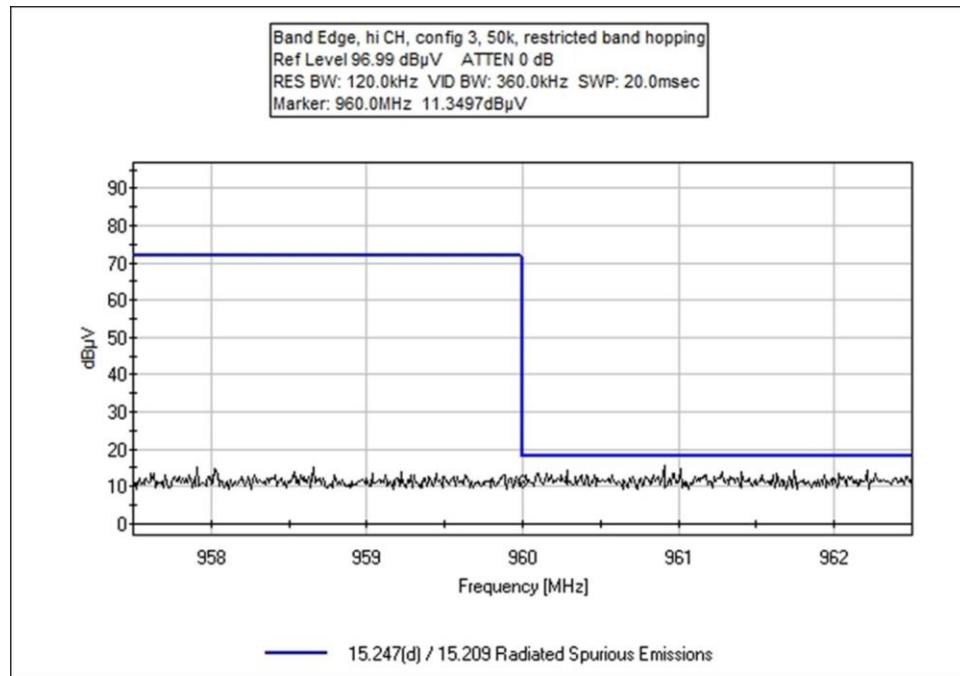
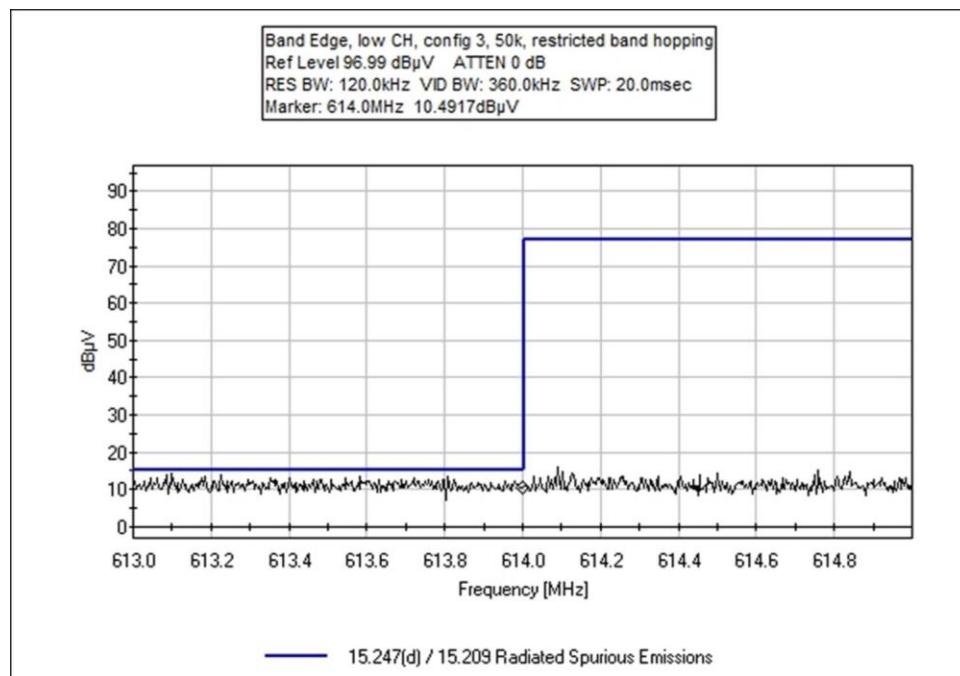












Configuration 4
