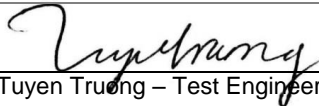
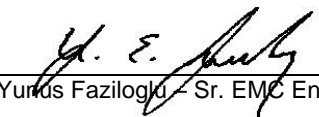




Test Report



Curtis-Straus LLC, a wholly owned subsidiary of BV CPS

Report No	EQ3620-1
Client	Onset Computer Corporation
Address	470 MacArthur Blvd. Bourne, MA 02532
Phone	(508) 743 - 3195
Items tested	SRW Mote
FCC ID	WXF-ONST6
IC ID	7936A-ONST6
FRN	0009380064
Equipment Type	Digital Transmission System
Equipment Code	DTS
Emission Designator	1M44F1D
FCC/IC Rule Parts	CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 2
Test Dates	March 2 to 20, 2017
Results	As detailed within this report
Prepared by	 Tuyen Truong – Test Engineer
Authorized by	 Yunus Faziloglu – Sr. EMC Engineer
Issue Date	<u>10/26/2018</u>
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 30 of this report.

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.



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Form Final Report REV 12-07-15



Summary

This test report supports an application for certification of a transmitter operating pursuant to: CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 2

“SRW Mote” is a transmitter operating in the 906MHz-924MHz frequency range.

Antenna Type: PCB thru-hole stamped metal antenna

Gain: 2dBi

We found that the product met the above requirements without modification.

Test samples were received in good condition.



Test Methodology

All testing was performed according to the following rules/procedures/documents;
CFR 47 FCC Part 15.247, RSS-247 Issue 2, RSS-Gen Issue 4, FCC KDB 558074 D01 DTS
Measurement Guidance v03r05 and ANSI C63.10-2013.

Radiated emissions were maximized by rotating the device around 3 orthogonal planes (X, Y and Z) as well as varying the test antenna's height and polarity. The device antenna could not be maximized separately.

RF measurements were performed at the antenna port. 3 channels were tested as follows:

- 906MHz: Low Channel
- 914MHz: Mid Channel
- 924MHz: High Channel

EUT operating voltage is 3VDC from battery.

The following bandwidths were used during radiated spurious emissions testing.

Frequency	RBW	VBW
0.15-30MHz	9kHz	30kHz
30-1000MHz	120kHz	1MHz
1-10GHz	1MHz	3MHz

Product Tested - Configuration Documentation

EUT Configuration										
Work Order:	Q3620									
Company:	Onset Computer Corporation									
Company Address:	470 MacArthur Blvd. Bourne, MA, 02532									
Contact:	John Araujo									
	MN			PN			SN			
EUT:	SRW Mote (short range wireless)			RXW-LIA-900			Sample 1			
	SRW Mote (short range wireless)			RXW-LIA-900			Sample 2 (conducted antenna port testing)			
EUT Description:	Wireless Transmitter									
EUT TX Frequency:	906 to 924 MHz									
EUT Min Frequency:	906 MHz									
Port Label	Port Type	# ports	# populated	cable type	shielded	ferrites	length (m)	in/out	under test	comment
Sensor	Other	1	1	Other	No	No	1m	in	yes	
Software Operating Mode Description:										
Firmware Version 0.34. EUT is set to transmit on 906, 916 and 924 MHz respectively.										
Performance Criteria:										
Radio must not become disconnected from gateway (immunity testing only)										

Statement of Conformity

The EUT has been found to conform to the following parts of FCC 15.247 and RSS 247 as detailed below:

RSS-GEN	RSP-100	RSS 247	Part 15	Comments
6.3			15.15(b)	There are no controls accessible to the user that varies the output power to operate in violation of the regulatory requirements.
	3.1		15.19	The label is shown in the label exhibit.
	3.2		15.21	Information to the user is shown in the instruction manual exhibit.
			15.27	No special accessories are required for compliance.
3, 6.1, 6.5			15.31	The EUT was tested in accordance with the measurement standards in this section.
6.13			15.33	Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.
8.1			15.35	The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
8.3			15.203	The antenna for this device is a PCB thru-hole stamped metal antenna with 2dBi gain.
8.10			15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209 or RSS-Gen as applicable
8.8			15.207	Not applicable since the EUT operating voltage is 3VDC from battery.
			15.247	The unit complies with the requirements of 15.247
		RSS 247		The unit complies with the requirements of RSS-247
6.6				Occupied Bandwidth measurements were made.

Modifications Required for Compliance

No modifications required for compliance



Test Results

Bandwidth

Limit: The minimum 6 dB bandwidth shall be at least 500 kHz.
[15.247(a) (2)]

MEASUREMENTS / RESULTS

6dB Bandwidth				
Date: 20-Mar-17	Company: Onset Computer Corporation	Work Order: Q3620		
Engineer: ZJ	EUT: SRW Mote	EUT Operating Voltage/Frequency: 3VDC battery		
Temp: 23.3°C	Humidity: 24%	Pressure: 1013mbar		
Frequency Range: 906-924 MHz		Measurement Type: Conducted		
Measurement Method: FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 8.2				
Notes:				
Frequency (MHz)	Reading (kHz)	6dB Bandwidth		
		Limit (kHz)	Margin (kHz)	Result (Pass/Fail)
906	827.6	≥500	328	Pass
916	838.4	≥500	338	Pass
924	839.0	≥500	339	Pass
Test Site: EMC3		Cable: 2288	Attenuator 2107	
Analyzer: 2093		Copyright Curtis-Straus LLC 2000		

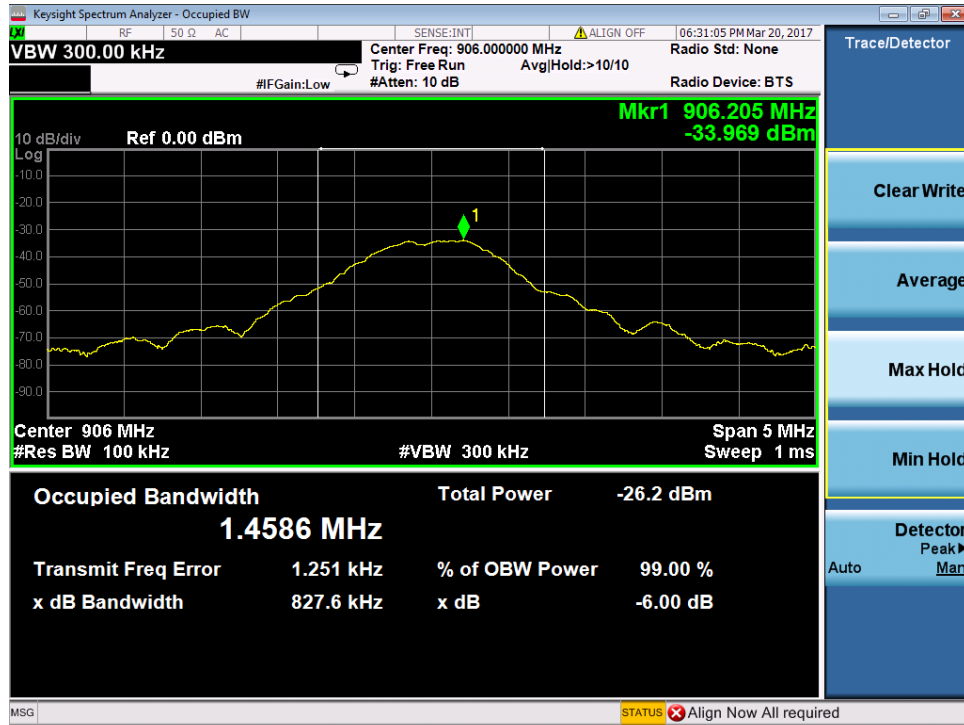
Rev. 3/27/2017

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
2093 MXE EMI Receiver	20Hz-26.5GHz	N9038A	Agilent	MY51210181	2093	I	8/9/2017	8/9/2016
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
API - 40dB 100W Attenuator	0.009-18GHz	48-40-34	API Weinschel	CG7990	2107	II	10/2/2017	10/2/2016
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016
TH A#2079		HTC-1	HDE		2079	II	3/23/2018	3/23/2017
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2288	9KHz-26.5GHz	FLC-1.5FT-SMSM+	Mini-Circuits	16021029		II	1/27/2018	1/27/2017

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



PLOTS

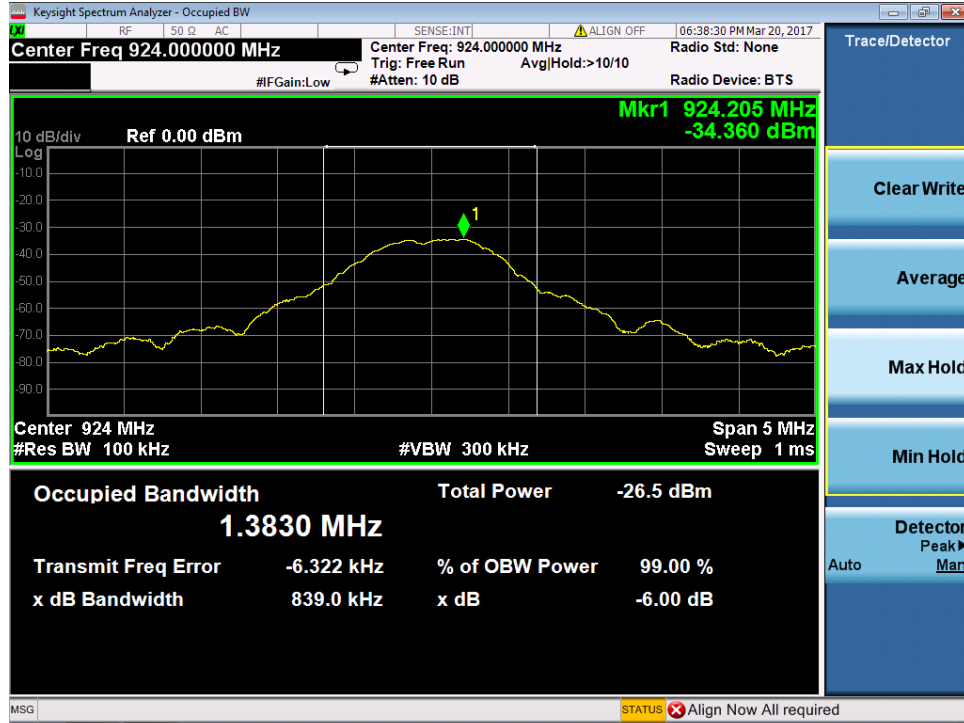


Low Channel DTS Bandwidth



Middle Channel DTS Bandwidth





High Channel DTS Bandwidth

Peak Output Power

LIMIT: 1 Watt Conducted Output Power
[15.247(b) (3)]

MEASUREMENTS / RESULTS

Peak Output Power							
Date: 20-Mar-17		Company: Onset Computer Corporation			Work Order: Q3620		
Engineer: ZJ		EUT: SRW Mote			EUT Operating Voltage/Frequency: 3VDC battery		
Temp: 23.3°C		Humidity: 24%		Pressure: 1013mbar			
Frequency Range: 906-924 MHz		Measurement Type: Conducted					
Measurement Method: FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 9.1.2							
Notes:							
Frequency (MHz)	Peak Reading (dBm)	Cable Loss (dB)	Attenuator Loss (dB)	Peak Output Power (dBm)	Limit (dBm)	Margin (dB)	Result (Pass/Fail)
906	-31.00	0.3	40.03	9.35	30.0	-20.65	Pass
916	-31.12	0.3	40.03	9.23	30.0	-20.77	Pass
924	-31.31	0.3	40.03	9.04	30.0	-20.96	Pass
Test Site: EMC3		Cable: 2288		Attenuator: 2107			
Analyzer: 2093		Copyright Curtis-Straus LLC 2000					
Peak Output Power (dBm) = Peak Reading (dBm) + Cable Loss (dB) + Attenuator Loss (dB)							

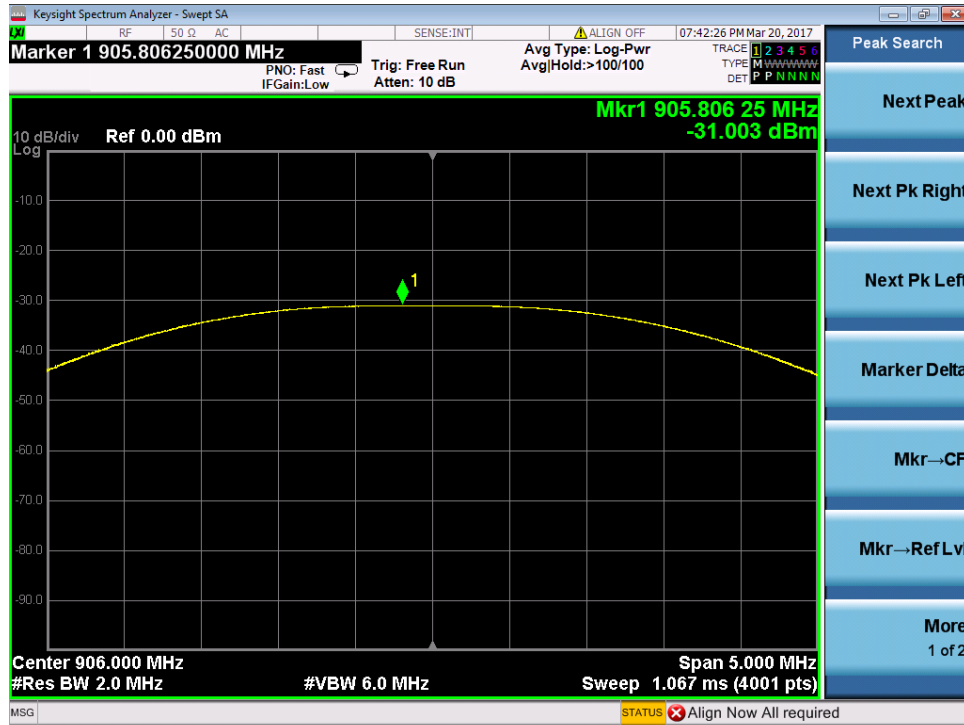
Rev. 3/27/2017

Category	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Spectrum Analyzers / Receivers / Preselectors								
2093 MXE EMI Receiver	20Hz-26.5GHz	N9038A	Agilent	MY51210181	2093	I	8/9/2017	8/9/2016
Preamps/Couplers Attenuators / Filters								
API - 40dB 100W Attenuator	0.009-18GHz	48-40-34	API Weinschel	CG7990	2107	II	10/2/2017	10/2/2016
Meteorological Meters								
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016
TH A#2079		HTC-1	HDE		2079	II	3/23/2018	3/23/2017
Cables								
Asset #2288	9KHz-26.5GHz	FLC-1.5FT-SMSM+	Mini-Circuits	16021029		II	1/27/2018	1/27/2017

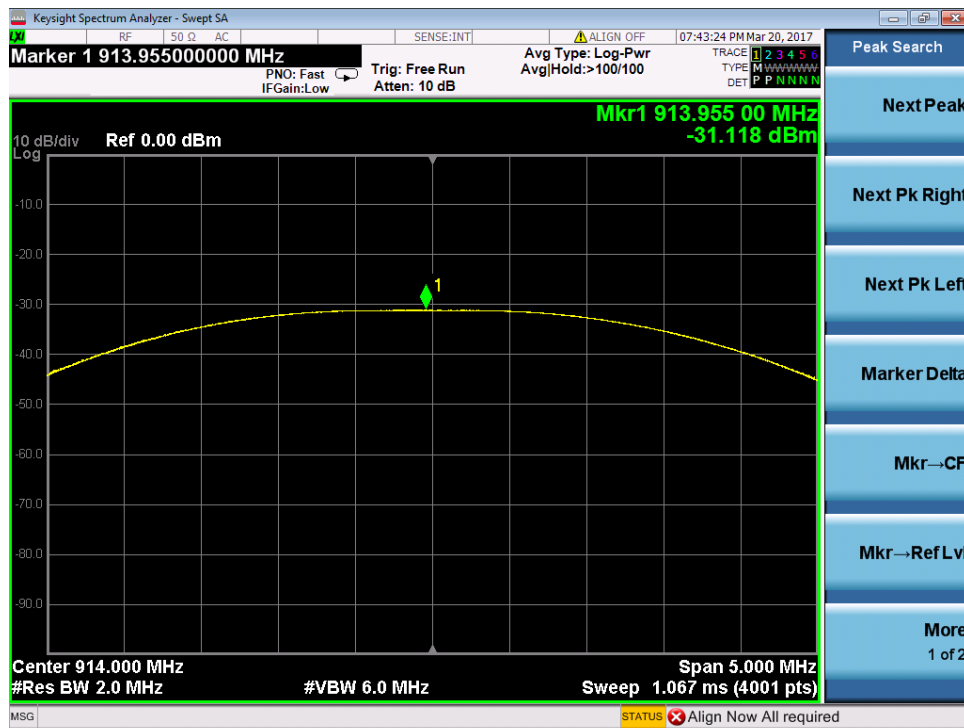
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



PLOTS

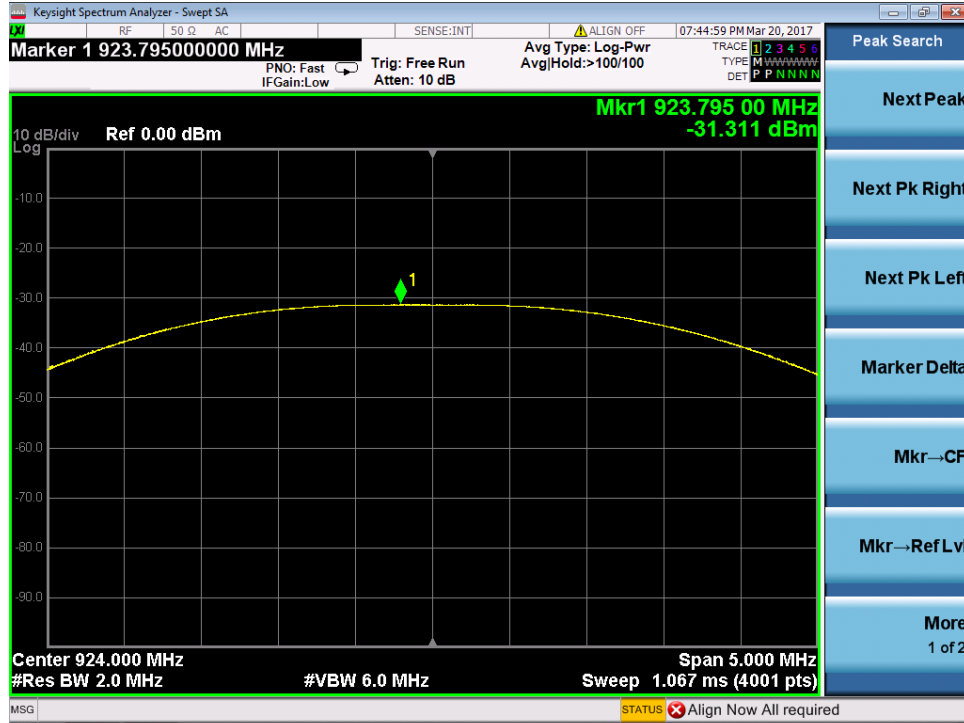


Low Channel Peak Output Power



Middle Channel Peak Output Power





High Channel Peak Output Power

Radiated Spurious Emissions

Limits: Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). [15.247(d)]

MEASUREMENTS / RESULTS

Radiated Emissions Table														
Date: 02-Mar-17			Company: Onset Computer Corporation						Work Order: Q3620					
Engineer: Zac Johnson			EUT Desc: SRW Mote						EUT Operating Voltage/Frequency: 3V DC					
Temp: 22.7°C			Humidity: 35%						Pressure: 985mBar					
Frequency Range: 30-1000MHz										Measurement Distance: 3 m				
Notes: Low channel, worst case Z orientation										EUT Max Freq: 924MHz				
900-930MHz High Pass Notch filter used										FCC 15.209				
Antenna Polarization (H/V)	Frequency (MHz)	Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Notch Factor (dB)	Adjusted Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	
V	49.4	37.4	25.2	8.1	0.4	0.9	21.6	---	---	---	40.0	-18.4	Pass	
H	57.2	32.2	25.2	7.4	0.5	0.9	15.8	---	---	---	40.0	-24.2	Pass	
V	85.3	35.7	25.2	7.7	0.5	0.9	19.6	---	---	---	40.0	-20.4	Pass	
H	88.2	31.4	25.2	7.7	0.5	0.9	15.3	---	---	---	43.5	-28.2	Pass	
V	139.6	35.7	25.3	13.4	0.8	0.9	25.5	---	---	---	43.5	-18.0	Pass	
H	261.8	30.4	25.1	12.3	1.0	0.9	19.5	---	---	---	46.0	-26.5	Pass	
V	293.8	34.6	25.0	13.3	1.0	0.9	24.8	---	---	---	46.0	-21.2	Pass	
H	633.3	29.3	24.8	19.5	1.7	0.9	26.6	---	---	---	46.0	-19.4	Pass	
Table Result: Pass by -18.0 dB										Worst Freq: 139.6 MHz				
Test Site: EMI Chamber 2			Cable 1: Asset #2052			Cable 2: Asset #2053			Cable 3: ---					
Analyzer: Rental SA#2			Preamp: Red			Antenna: Red-White			Preselector: ---					
CSsoft Radiated Emissions Calculator v 1.017.183										Copyright Curtis-Straus LLC 2000				
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor														

Radiated Emissions Table														
Date: 02-Mar-17			Company: Onset Computer Corporation						Work Order: Q3620					
Engineer: Zac Johnson			EUT Desc: SRW Mote						EUT Operating Voltage/Frequency: 3V DC					
Temp: 22.7°C			Humidity: 35%						Pressure: 985mBar					
Frequency Range: 30-1000MHz										Measurement Distance: 3 m				
Notes: Center channel, worst case Z orientation										EUT Max Freq: 924MHz				
High Pass Notch Filter was used in line with PreAmp Test Equipment Noise floor readings over 800MHz										FCC 15.209				
Antenna Polarization (H/V)	Frequency (MHz)	Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Notch Factor (dB)	Adjusted Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	
V	51.3	38.7	25.2	7.6	0.4	0.9	22.4	---	---	---	40.0	-17.6	Pass	
H	57.2	33.6	25.2	7.4	0.5	0.9	17.2	---	---	---	40.0	-22.8	Pass	
V	139.6	34.3	25.3	13.4	0.8	0.9	24.1	---	---	---	43.5	-19.4	Pass	
V	213.4	34.2	25.2	10.6	0.9	0.9	21.4	---	---	---	43.5	-22.1	Pass	
H	221.1	33.8	25.1	10.8	1.0	0.9	21.4	---	---	---	46.0	-24.6	Pass	
H	558.0	33.3	25.4	18.3	1.3	0.9	28.4	---	---	---	46.0	-17.6	Pass	
V	703.2	36.0	24.2	20.2	1.8	0.9	34.7	---	---	---	46.0	-11.3	Pass	
H	703.2	36.7	24.2	20.2	1.8	0.9	35.4	---	---	---	46.0	-10.6	Pass	
Table Result: Pass by -10.6 dB										Worst Freq: 703.2 MHz				
Test Site: EMI Chamber 2			Cable 1: Asset #2052			Cable 2: Asset #2053			Cable 3: ---					
Analyzer: Rental SA#2			Preamp: Red			Antenna: Red-White			Preselector: ---					
CSsoft Radiated Emissions Calculator v 1.017.183										Copyright Curtis-Straus LLC 2000				
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor														



Radiated Emissions Table													
Date: 02-Mar-17			Company: Onset Computer Corporation					Work Order: Q3620					
Engineer: Zac Johnson			EUT Desc: SRW Mote					EUT Operating Voltage/Frequency: 3V DC					
Temp: 22.7°C			Humidity: 35%					Pressure: 985mBar					
Frequency Range: 30-1000MHz			Measurement Distance: 3 m										
Notes: High channel, worst case Z orientation							EUT Max Freq: 924MHz						
900-930MHz Notch filter used													
Antenna Polarization (H/V)	Frequency (MHz)	Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Notch Factor (dB)	Adjusted Reading (dBµV/m)	FCC 15.209			FCC 15.209		
								Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
V	53.3	38.1	25.2	7.3	0.4	0.9	21.5	---	---	---	40.0	-18.5	Pass
H	62.0	35.5	25.2	7.8	0.5	0.9	19.5	---	---	---	40.0	-20.5	Pass
V	82.4	39.5	25.2	8.0	0.5	0.9	23.7	---	---	---	40.0	-16.3	Pass
H	176.5	36.3	25.3	11.5	0.8	0.9	24.2	---	---	---	43.5	-19.3	Pass
V	257.0	39.5	25.2	11.8	0.9	0.9	27.9	---	---	---	46.0	-18.1	Pass
H	559.6	37.2	25.4	18.3	1.3	0.9	32.3	---	---	---	46.0	-13.7	Pass
H	772.0	35.8	24.3	21.0	1.8	0.9	35.2	---	---	---	46.0	-10.8	Pass
V	788.5	38.4	24.7	21.1	1.8	0.9	37.5	---	---	---	46.0	-8.5	Pass
Table Result: Pass by -8.5 dB											Worst Freq: 788.5 MHz		
Test Site: EMI Chamber 2			Cable 1: Asset #2052				Cable 2: Asset #2053				Cable 3: ---		
Analyzer: Rental SA#2			Preamp: Red				Antenna: Red-White				Preselector: ---		
CSsoft Radiated Emissions Calculator v 1.017.183													
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor													

Rev. 2/26/2017

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
2093 MXE EMI Receiver	20Hz-26.5GHz	N9038A	Agilent	MY51210181	2093	I	8/9/2017	8/9/2016
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range	Cat	Calibration Due	Calibrated on	
EMI Chamber 2	719150	2762A-7	A-0015	30-1000MHz	II	3/22/2017	3/22/2015	
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red	0.009-2000MHz	ZFL-1000-LN	CS	N/A	798	II	1/28/2018	1/28/2017
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red-White Bilog	30-2000MHz	JB1	Sunol	A091604-1	1105	I	8/12/2017	8/12/2015
Meteorological Meters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)	9kHz - 18GHz	BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016
TH A#2081	9kHz - 18GHz	HTC-1	HDE		2081	II	4/5/2017	4/5/2016
Cables	Range	Mfr	Cat	Calibration Due	Calibrated on			
Asset #2052	9kHz - 18GHz	Florida RF	II	3/2/2017	3/2/2016			
Asset #2053	9kHz - 18GHz	Florida RF	II	10/1/3017	10/30/2016			

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Radiated Emissions Table															
Date: 02-Mar-17			Company: Onset Computer Corporation					Work Order: Q3620							
Engineer: Zac Johnson			EUT Desc: SRW Mote					EUT Operating Voltage/Frequency: 3V DC							
Temp: 22.7°C			Humidity: 35%					Pressure: 985mBar							
Frequency Range: 1-6GHz			Measurement Distance: 3 m												
Notes: 3 channels, worst case Z orientation							EUT Max Freq: 924MHz								
900-930MHz Notch filter used															
Antenna Polarization (H/V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Notch Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	FCC 15.209 High Frequency - Peak			FCC 15.209 High Frequency - Average		
										Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
Low Channel															
V	3625.0	24.6	8.8	0.0	31.7	3.7	1.1	61.1	45.3	74.0	-12.9	Pass	54.0	-8.7	Pass
H	3625.0	25.4	9.6	0.0	31.7	3.7	1.1	61.9	46.1	74.0	-12.1	Pass	54.0	-7.9	Pass
Table Result: Pass by -7.9 dB											Worst Freq: 3625.0 MHz				
Test Site: EMI Chamber 2			Cable 1: Asset #2052				Cable 2: Asset #2053				Cable 3: ---				
Analyzer: MXE Receiver			Preamp: none				Antenna: Yellow Horn				Preselector: ---				
CSsoft Radiated Emissions Calculator v 1.017.183															
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor															



Radiated Emissions Table															
Date: 02-Mar-17 Engineer: Zac Johnson Temp: 22.7°C					Company: Onset Computer Corporation EUT Desc: SRW Mote Humidity: 35%					Work Order: Q3620 EUT Operating Voltage/Frequency: 3V DC Battery Pressure: 985mBar					
Frequency Range: 1-6GHz										Measurement Distance: 3 m					
Notes: 3 channels, worst case Z orientation 900-930MHz Notch filter used										EUT Max Freq: 924MHz					
Antenna Polarization (H/V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Notch Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	FCC 15.209 High Frequency - Peak			FCC 15.209 High Frequency - Average		
										Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
Center Channel V	3665.0	27.8	12.0	0.0	32.0	3.7	1.1	64.6	48.8	74.0	-9.4	Pass	54.0	-5.2	Pass
H	3665.0	28.8	13.0	0.0	32.0	3.7	1.1	65.6	49.8	74.0	-8.4	Pass	54.0	-4.2	Pass
Table Result: Pass by -4.2 dB										Worst Freq: 3665.0 MHz					
Test Site: EMI Chamber 2 Analyzer: MXE Receiver CSsoft Radiated Emissions Calculator v 1.017.183 Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor					Cable 1: Asset #2052 Preamp: none					Cable 2: Asset #2053 Antenna: Yellow Horn Cable 3: --- Preselector: --- Copyright Curtis-Straus LLC 2000					

Radiated Emissions Table															
Date: 02-Mar-17 Engineer: Zac Johnson Temp: 22.7°C					Company: Onset Computer Corporation EUT Desc: SRW Mote Humidity: 35%					Work Order: Q3620 EUT Operating Voltage/Frequency: 3V DC Battery Pressure: 985mBar					
Frequency Range: 1-6GHz										Measurement Distance: 3 m					
Notes: 3 channels, worst case Z orientation 900-930MHz Notch filter used										EUT Max Freq: 924MHz					
Antenna Polarization (H/V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Notch Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	FCC 15.209 High Frequency - Peak			FCC 15.209 High Frequency - Average		
										Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
High Channel V	3695.0	25.3	9.5	0.0	32.1	3.7	1.1	62.2	46.4	74.0	-11.8	Pass	54.0	-7.6	Pass
H	3695.0	27.5	11.7	0.0	32.1	3.7	1.1	64.4	48.6	74.0	-9.6	Pass	54.0	-5.4	Pass
Table Result: Pass by -5.4 dB										Worst Freq: 3695.0 MHz					
Test Site: EMI Chamber 2 Analyzer: MXE Receiver CSsoft Radiated Emissions Calculator v 1.017.183 Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor					Cable 1: Asset #2052 Preamp: none					Cable 2: Asset #2053 Antenna: Yellow Horn Cable 3: --- Preselector: --- Copyright Curtis-Straus LLC 2000					

Radiated Emissions Table														
Date: 02-Mar-17 Engineer: Zac Johnson Temp: 22.7°C					Company: Onset Computer Corporation EUT Desc: SRW Mote Humidity: 35%					Work Order: Q3620 EUT Operating Voltage/Frequency: 3V DC Battery Pressure: 985mBar				
Frequency Range: 6-18GHz										Measurement Distance: 1 m				
Notes: All 3 channels were tested; Noise Floor Readings										EUT Max Freq: 924MHz				
Antenna Polarization (H/V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	FCC 15.209 High Frequency - Peak			FCC 15.209 High Frequency - Average		
									Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
All 3 channels (Low, Mid and High) were investigated; no emissions seen in this range that are within 10dB of the limits.														
Table Result: Pass by -16.9 dB										Worst Freq: 9408.0 MHz				
Test Site: EMI Chamber 2 Analyzer: Rental SA#2 CSsoft Radiated Emissions Calculator v 1.017.183 Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor					Cable 1: Asset #2052 Preamp: none					Cable 2: Asset #2053 Antenna: Yellow Horn Cable 3: --- Preselector: --- Copyright Curtis-Straus LLC 2000				

Rev. 2/26/2017

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
2093 MXE EMI Receiver	20Hz-26.5GHz	N9038A	Agilent	MY51210181	2093	I	8/9/2017	8/9/2016
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range	Cat	Calibration Due	Calibrated on	
EMI Chamber 2	719150	2762A-7	A-0015	1-18GHz	I	4/29/2017	4/29/2015	
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Yellow Horn	1-18GHz	3115	EMCO	9608-4898	37	I	8/9/2018	8/6/2016
Meteorological Meters	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
Weather Clock (Pressure Only) TH A#2081	BA928 HTC-1	Oregon Scientific HDE	C3166-1	831 2081	I II	4/28/2018 4/5/2017	4/28/2016 4/5/2016	

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



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Duty Cycle Correction Factor

Limits:

Unless otherwise specified, e.g., §§15.255(b), and 15.256(l)(5), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

[15.35(c)]

MEASUREMENTS / RESULTS

Duty Cycle Correction Factor			
Date: 20-Mar-17		Company: Onset Computer Corporation	
Engineer: ZJ		EUT: SRW Mote	
Temp: 23.3°C		Humidity: 24%	
		Pressure: 1013mbar	
Frequency Range: 916 MHz		Measurement Type: Conducted Antenna Port	
Work Order: Q3620			
EUT Operating Voltage/Frequency: 3VDC battery			
Notes:			
Frequency	On Time	Period	Duty Cycle Correction Factor (DCCF)
(MHz)	(millisecond)	(millisecond)	
916.0	16.2500	100.00	
			-15.783
Test Site: EMC3		Cable: 2288	
Analyzer: 2093		Attenuat 2107	
<small>Copyright Curtis-Straus LLC 2000</small>			

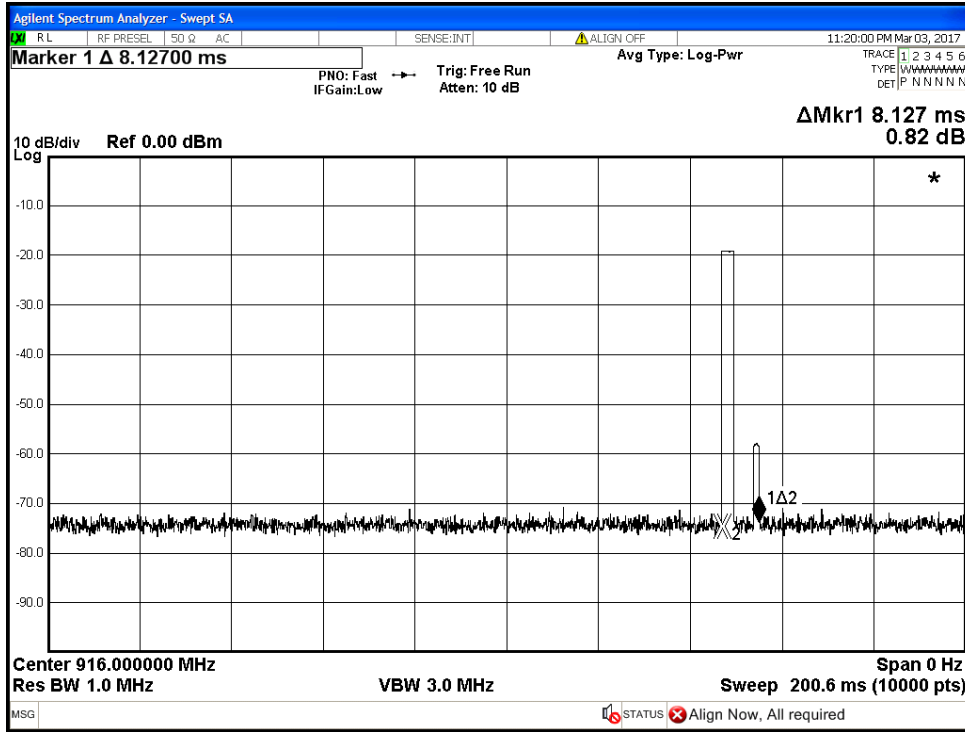
Rev. 3/27/2017

Equipment Category	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Spectrum Analyzers / Receivers /Preselectors								
2093 MXE EMI Receiver	20Hz-26.5GHz	N9038A	Agilent	MY51210181	2093	I	8/9/2017	8/9/2016
Preamps/Couplers Attenuators / Filters								
API - 40dB 100W Attenuator	0.009-18GHz	48-40-34	API Weinschel	CG7990	2107	II	10/2/2017	10/2/2016
Meteorological Meters								
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016
TH A#2079		HTC-1	HDE		2079	II	3/23/2018	3/23/2017
Cables								
Asset #2288	9KHz-26.5GHz	FLC-1.5FT-SMSM+	Mini-Circuits	16021029		II	1/27/2018	1/27/2017

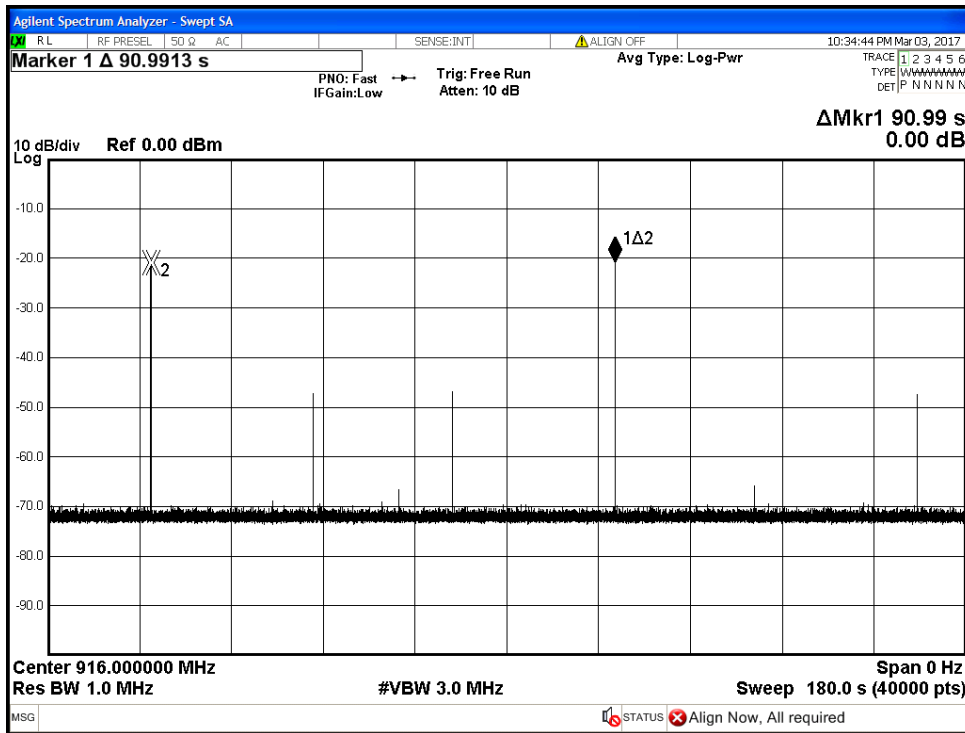
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



PLOTS



Single pulse



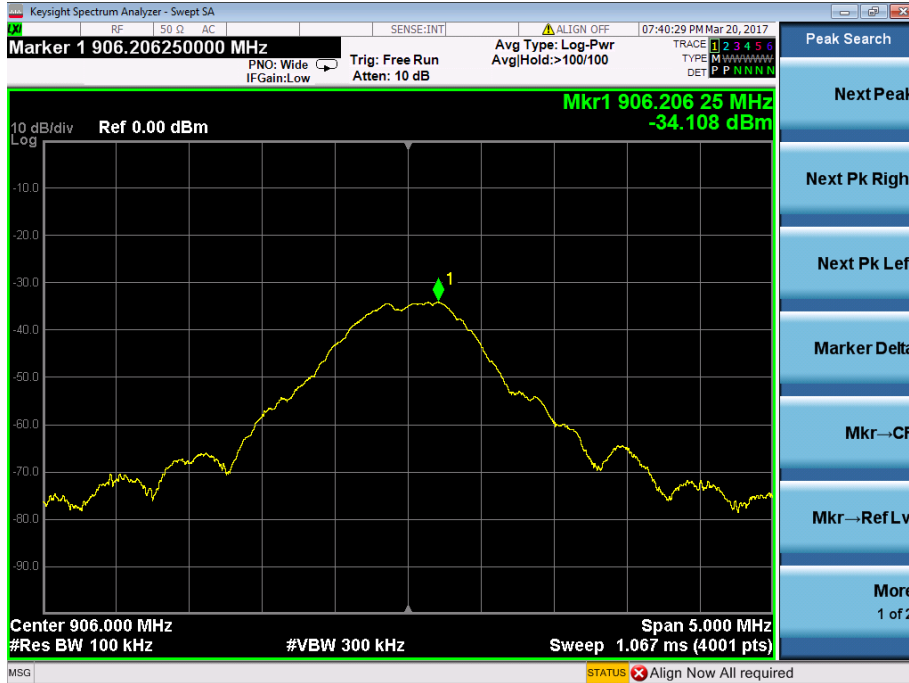
Period (180-second window)



Conducted Spurious Emissions

Limits: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth that contains the highest level of desired power.

[15.247(d)]

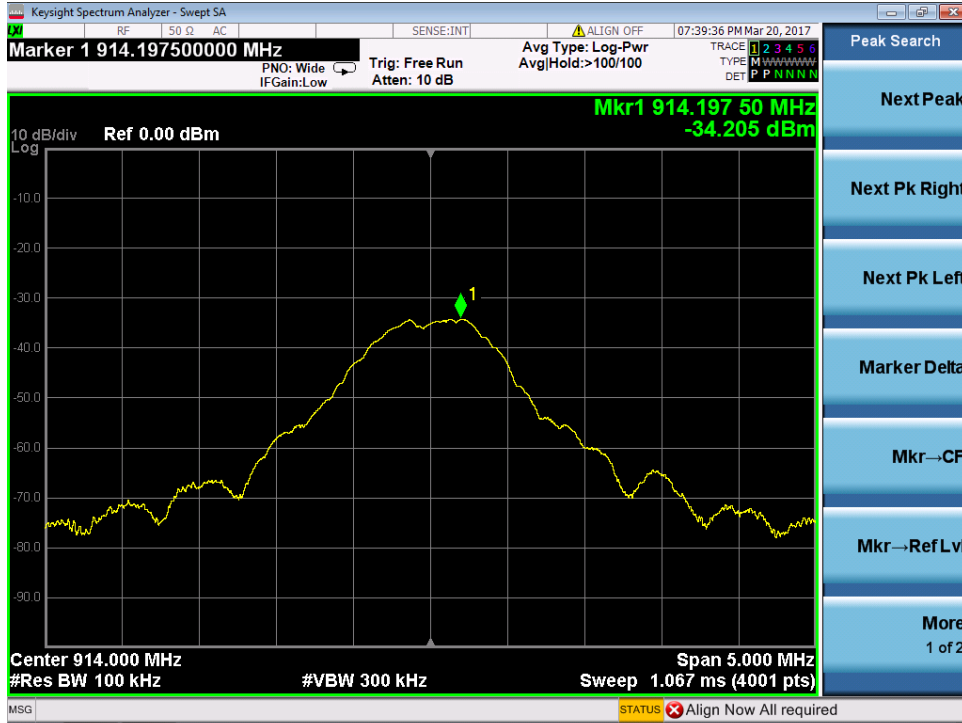


Low Channel - Conducted Spurious Reference



Low Channel 9 KHz -25GHz Conducted Spurious



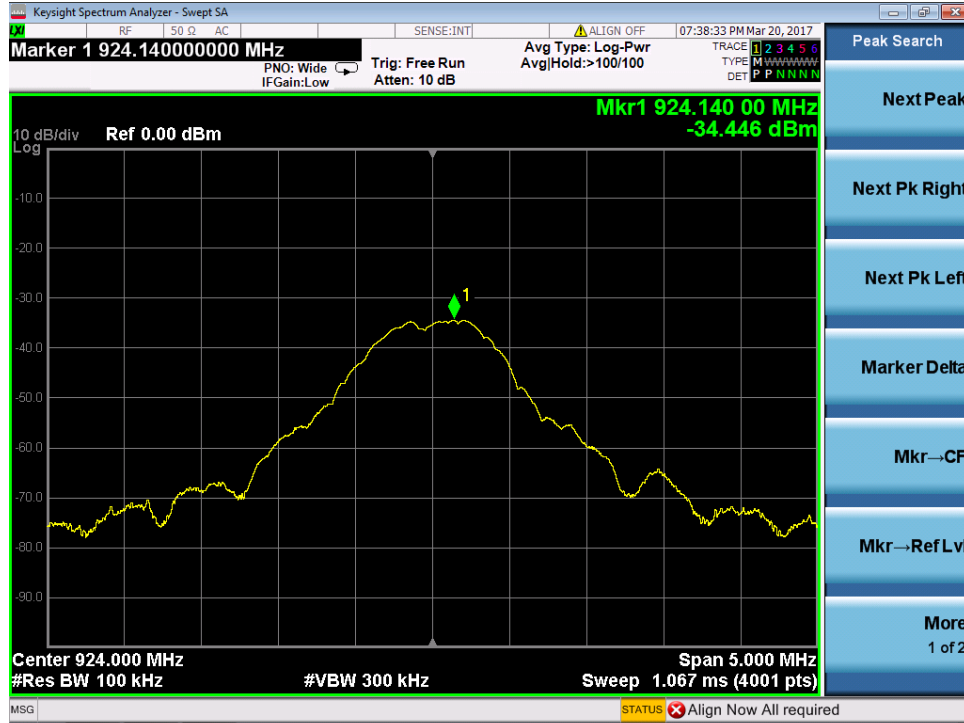


Middle Channel - Conducted Spurious Reference



Middle Channel 9 KHz -25GHz Conducted Spurious





High Channel - Conducted Spurious Reference



High Channel 9 KHz -25GHz Conducted Spurious



No emissions within 20dB of their corresponding fundamentals were found on all three channels.

Rev. 3/27/2017

Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
2093 MXE EMI Receiver	20Hz-26.5GHz	N9038A	Agilent	MY51210181	2093	I	8/9/2017	8/9/2016
Preamps/Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
API - 40dB 100W Attenuator	0.009-18GHz	48-40-34	API Weinschel	CG7990	2107	II	10/2/2017	10/2/2016
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016
TH A#2079		HTC-1	HDE		2079	II	3/23/2018	3/23/2017
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2288	9KHz-26.5GHz	FLC-1.5FT-SMSM+	Mini-Circuits	16021029		II	1/27/2018	1/27/2017

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



Power Spectral Density

Limit: The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission. [15.247(e)]

MEASUREMENTS / RESULTS

Peak Power Spectral Density							
Date: 20-Mar-17		Company: Onset Computer Corporation			Work Order: Q3620		
Engineer: ZJ		EUT: SRW Mote		EUT Operating Voltage/Frequency: 3VDC battery			
Temp: 23.3°C		Humidity: 24%		Pressure: 1013mbar			
Frequency Range: 906-924 MHz		Measurement Type: Conducted		Measurement Method: FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 10.2			
Notes:							
Frequency (MHz)	Peak Reading (dBm)	Cable Loss (dB)	Attenuator Loss (dB)	Peak PSD (dBm)	Limit (dBm)	Margin (dB)	Result
906	-41.429	0.3	40.03	-1.08	8.0	-9.08	Pass
916	-41.601	0.3	40.03	-1.25	8.0	-9.25	Pass
924	-41.831	0.3	40.03	-1.48	8.0	-9.48	Pass
Test Site: EMC3		Cable: 2288		Attenuat 2107			
Analyzer: 2093		Copyright Curtis-Straus LLC 2000					
PSD(dBm) = Reading (dBm) + Cable Loss (dB) + Attenuator Loss (dBm)							

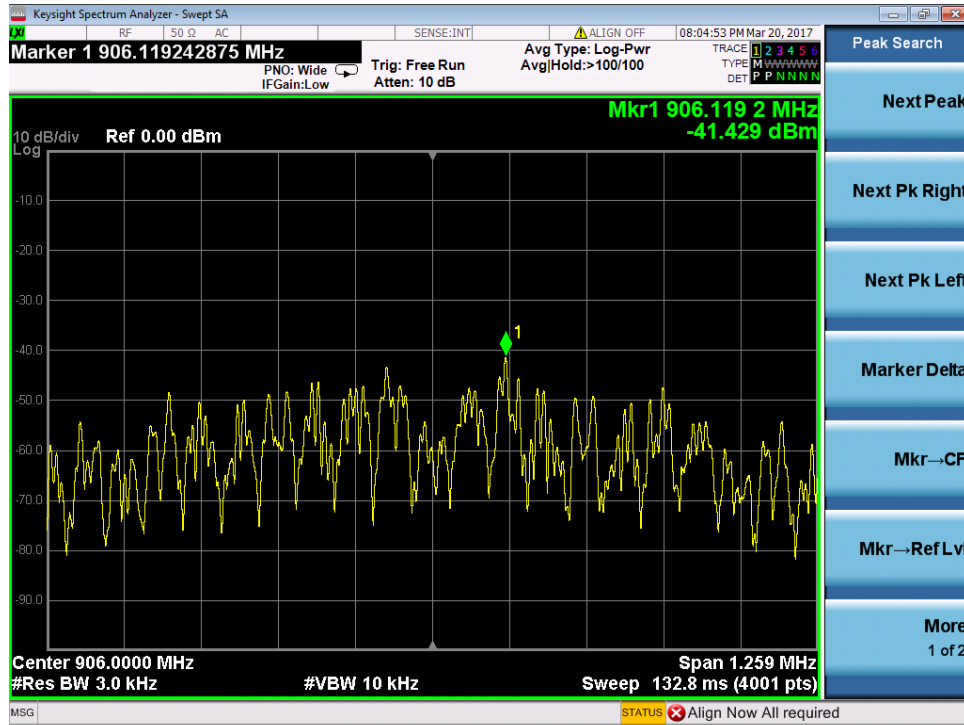
Rev. 3/27/2017

Equipment Category	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Spectrum Analyzers / Receivers / Preselectors 2093 MXE EMI Receiver	20Hz-26.5GHz	N9038A	Agilent	MY51210181	2093	I	8/9/2017	8/9/2016
Preamps / Couplers Attenuators / Filters API - 40dB 100W Attenuator	0.009-18GHz	48-40-34	API Weinschel	CG7990	2107	II	10/2/2017	10/2/2016
Meteorological Meters Weather Clock (Pressure Only) TH A#2079		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831	Cat I	Calibration Due 4/28/2018	Calibrated on 4/28/2016
Cables Asset #2288	Range 9KHz-26.5GHz	FLC-1.5FT-SMSM+	Mfr Mini-Circuits	16021029		Cat II	Calibration Due 1/27/2018	Calibrated on 1/27/2017

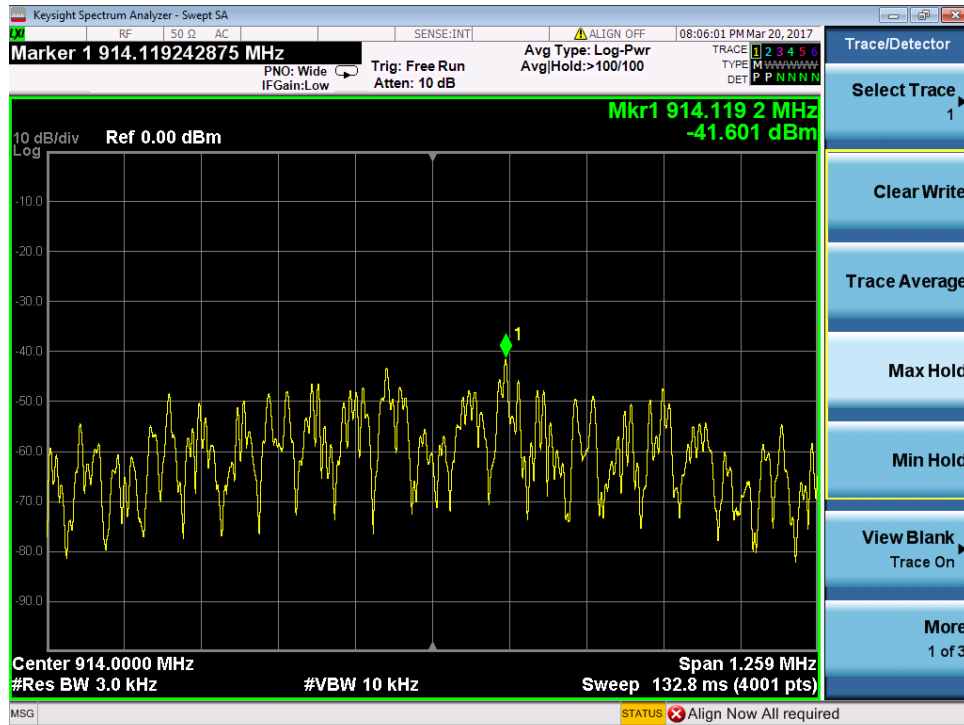
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



PLOTS

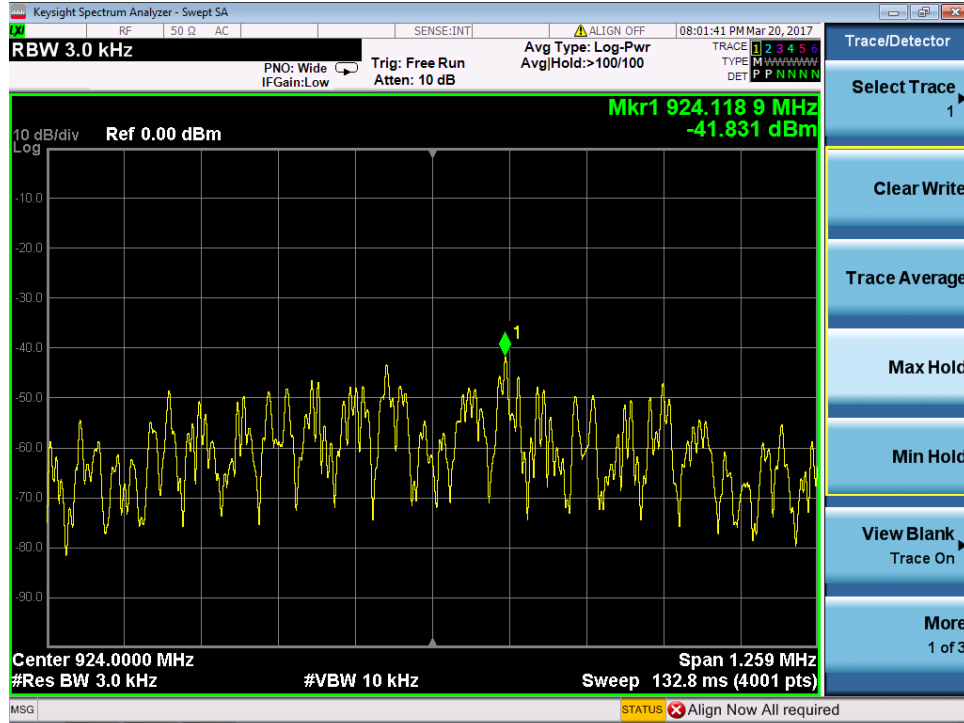


Low Channel Power Spectral Density



Middle Channel Power Spectral Density





High Channel Power Spectral Density

AC Line Conducted Emissions

Limits:

Frequency of emission (MHz)	Quasi-peak limit (dB μ V)	Average limit (dB μ V)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

[47 CFR 15.207(a)]

MEASUREMENTS / RESULTS

Not applicable since EUT is battery powered (3VDC)

Occupied Bandwidth

Requirement: When an occupied bandwidth is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is its 99% emission bandwidth, as calculated or measured.

[RSS-GEN 4.6.1]

MEASUREMENTS / RESULTS

99% Occupied Bandwidth			
Date: 20-Mar-17	Company: Onset Computer Corporation	Work Order: Q3620	
Engineer: ZJ	EUT: SRW Mote	EUT Operating Voltage/Frequency: 3VDC battery	
Temp: 23.3°C	Humidity: 24%	Pressure: 1013mbar	
Frequency Range: 906-924 MHz		Measurement Type: Conducted	
Measurement Method: RSS-Gen Issue 4 Section 6.6			
Notes:			
Frequency (MHz)	99% OBW (kHz)		
906	1442.7		
916	1373.1		
924	1375.8		
Test Site: EMC3	Cable: 2288	Attenuator: 2107	
Analyzer: 2093	Copyright Curtis-Straus LLC 2000		

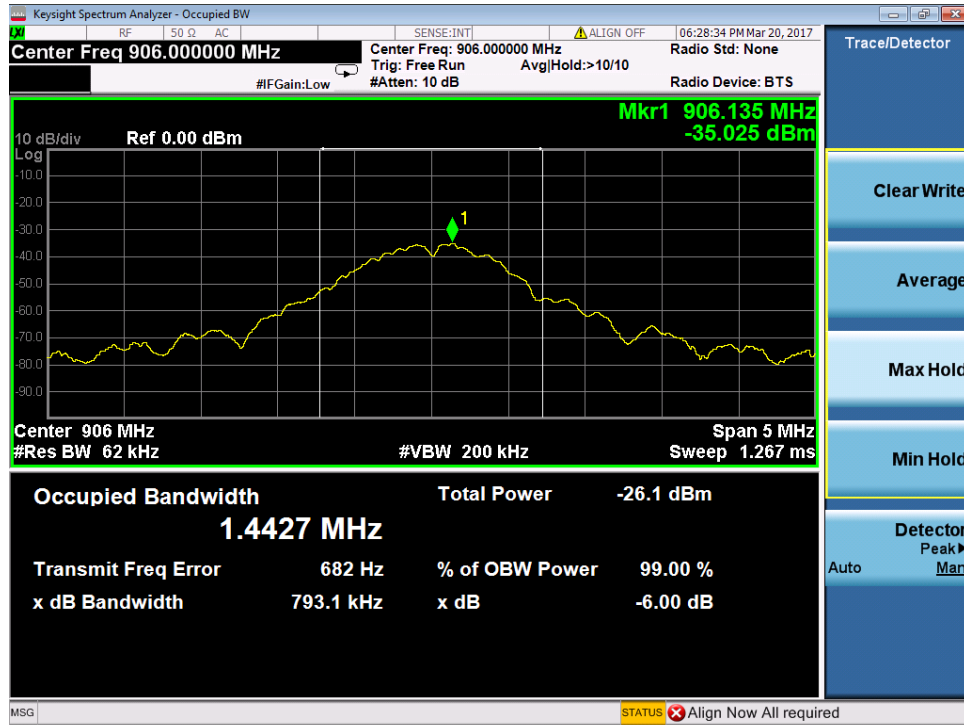
Rev. 3/27/2017

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
2093 MXE EMI Receiver	20Hz-26.5GHz	N9038A	Agilent	MY51210181	2093	I	8/9/2017	8/9/2016
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
API - 40dB 100W Attenuator	0.009-18GHz	48-40-34	API Weinschel	CG7990	2107	II	10/2/2017	10/2/2016
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016
TH A#2079		HTC-1	HDE		2079	II	3/23/2018	3/23/2017
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2288	9KHz-26.5GHz	FLC-1.5FT-SMSM+	Mini-Circuits	16021029		II	1/27/2018	1/27/2017

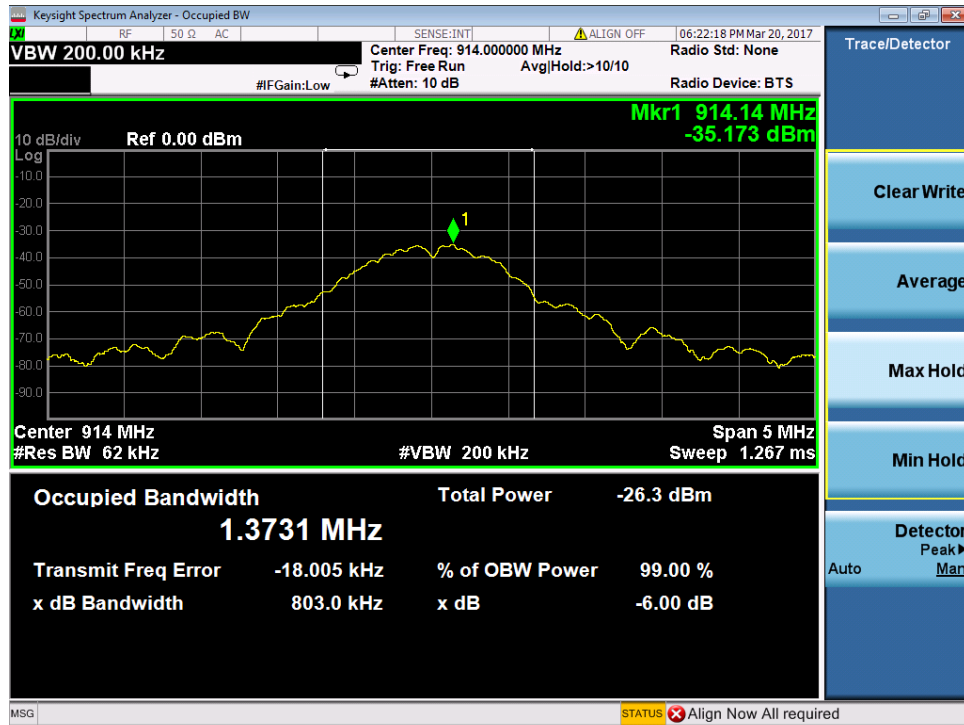
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



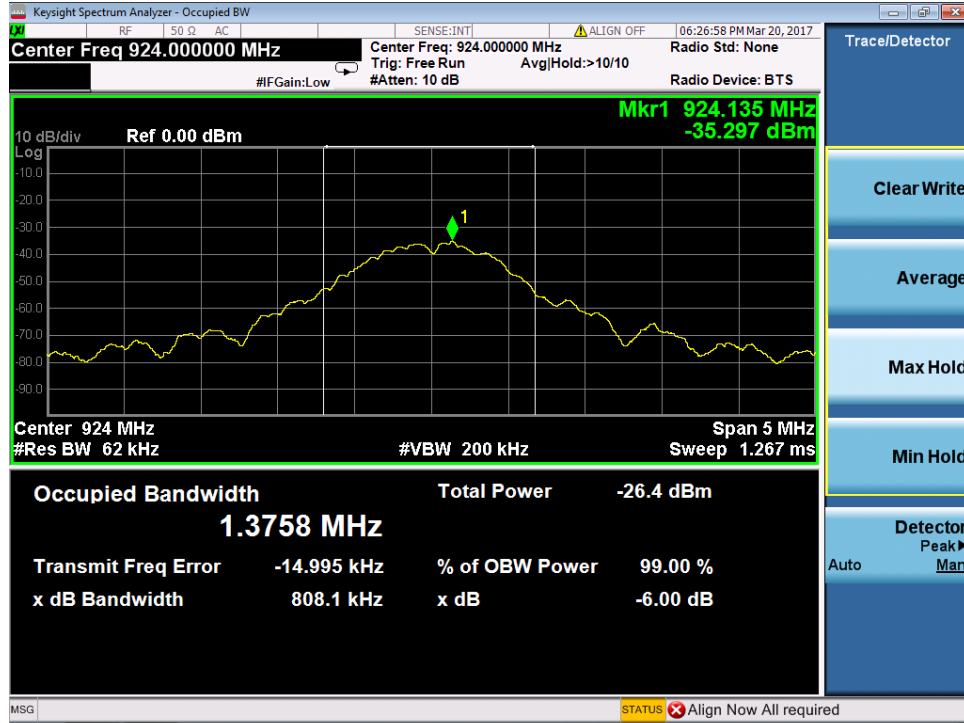
PLOTS



Occupied Bandwidth Low Channel



Occupied Bandwidth Middle Channel



Occupied Bandwidth High Channel

Measurement Uncertainty

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty
Radiated Emissions (30-1000MHz)		
NIST	5.6dB	N/A
CISPR	4.6dB	5.2dB (Ucisprr)
Radiated Emissions (1-26.5GHz)	4.6dB	N/A
Radiated Emissions (above 26.5GHz)	4.9dB	N/A
Magnetic Radiated Emissions	5.6dB	N/A
Conducted Emissions		
NIST	3.9dB	N/A
CISPR	3.6dB	3.6dB (Ucisprr)
Telco Conducted Emissions (Current)	2.9dB	N/A
Telco Conducted Emissions (Voltage)	4.4dB	N/A
Electrostatic Discharge	11.5%	N/A
Radiated RF Immunity (Uniform Field)	1.6dB	N/A
Electrical Fast Transients	23.1%	N/A
Surge	23.1%	N/A
Conducted RF Immunity	3dB	N/A
Magnetic Immunity	12.8%	N/A
Dips and Interrupts	2.3V	N/A
Harmonics	3.5%	N/A
Flicker	3.5%	N/A
Radio frequency (@ 2.4GHz)	3.23×10^{-8}	1×10^{-7}
RF power, conducted	0.40dB	0.75dB
Maximum frequency deviation:		
• Within 300Hz and 6kHz of audio frequency / Within 6kHz and 25kHz of audio frequency	3.4% 0.3dB	5% 3dB
Adjacent channel power	1.9dB	3dB
Conducted spurious emission of transmitter, valid up to 12.75GHz	2.39dB	3dB
Conducted emission of receivers	1.3dB	3dB
Radiated emission of transmitter, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of transmitter, valid up to 80GHz	3.3dB	6dB
Radiated emission of receiver, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of receiver, valid up to 80GHz	3.3dB	6dB
Humidity	2.37%	5%
Temperature	0.7°C	1.0°C
Time	4.1%	10%
RF Power Density, Conducted	0.4dB	3dB
DC and low frequency voltages	1.3%	3%
Voltage (AC, <10kHz)	1.3%	2%
Voltage (DC)	0.62%	1%
The above reflects a 95% confidence level		



Conditions of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS," "MTL," "ACTS," "MTL-ACTS" and CURTIS-STRAUS (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only where such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.
13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.
14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.



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(B) NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.

17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

The complete list of the Approved Subcontractors Curtis-Straus may use to delegate the performance of work can be provided upon request.
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