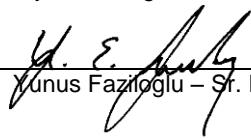




BUREAU
VERITAS

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Test Report

Report No	EQ1735-2
Client	DogWatch Inc.
Address	10 Michigan Drive Natick, MA 01760
Phone	(800) 793-3436 x625
Items tested	Smart Collar (M/N: SF-C10)
FCC ID	L66DWSFC
IC ID	8187A-DWSFC
FRN	0018536615
Equipment Type	Low Power Communication Device Transmitter
Equipment Code	DXX
Standards	CFR 47 FCC 15.249, RSS 210 Issue 9 Annex B.10
Test Dates	July 19-20, Sep 6, 2016
Results	As detailed within this report
Prepared by	 Tuyen Truong – Test Engineer
Authorized by	 Yunus Faziloglu – Sr. EMC Engineer
Issue Date	9/16/2016
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 21 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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Contents

Contents.....	2
Product Tested - Configuration Documentation	3
Summary.....	4
Test Methodology	5
Compliance Statement	6
Test Results	7
Fundamental Measurements.....	7
Radiated Spurious Emissions	10
AC Line Conducted Emissions.....	16
<i>Occupied Bandwidth</i>	17
Measurement Uncertainty.....	20
Conditions Of Testing	21

Form Final Report REV 2-16-07 (DW)



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Product Tested - Configuration Documentation

EUT Configuration						
Work Order:	Q1735					
Company:	DogWatch Inc.					
Company Address:	10 Michigan Drive Natick, MA, 01760					
Contact:	Frederic Peterson					
EUT:	MN	PN	SN			
	SF-C10	--	8 (used for TX at 902.1 MHz)			
	SF-C10	--	1 (used for TX at 915.1 MHz)			
	SF-C10	--	5 (used for TX at 927.9 MHz)			
	SF-C10	--	59 (used for RX mode)			
EUT Description:	Smart Collar					
EUT Max Frequency:	27 MHz (Associated Circuitry)					
EUT TX Frequency:	902.1to 927.9 MHz					
Software Operating Mode Description:						
EUT is set to transmit at the following channels 902.1, 915.1, and 927.9MHz. In "Standby" mode, EUT shall not transmit. EUT is in "Receive" mode for a short period of time after it transmits; then it goes back to Standby mode. Modulation is FSK. Data rate = 3kbps, Duty-Cycle = 100%						
Performance Criteria:						
EMI testing only						



Reason for change

Original Release

Date Issued

September 16, 2016

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page 3 of 22



Testing Cert. No. 1627-01

Summary

This test report supports an application for certification of a transmitter operating pursuant to CFR 47 FCC 15.249, RSS 210 Issue 9 Annex B.10. The product operates in the 902.1MHz to 927.9MHz frequency range.

We found that the product met the above requirements without modifications. The test samples were received in good condition.

Model tested: SF-C10

Test results in this report represent the following additional models. The differences between models are in software that control features. All models share the same circuit boards and RF parameters.

Additional Models: SF-C20, SF-C30, SF-C40



Reason for change
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page 4 of 22



Test Methodology

Radiated emission testing was performed according to the procedures specified in ANSI C63.10-2013 and RSS-Gen Issue 4. Radiated Emissions were maximized around 3 orthogonal planes. EUT antenna is integral and therefore cannot be maximized separately.

AC Mains Conducted Emission was not tested with a 50Ω/50µH because EUT is battery powered.

The product was tested with modulation on and the readings were compared against the limit presented in section CFR 15.249.

Operating channel frequency = 902.1 MHz (EUT Sample # 8)

Operating channel frequency = 915.1 MHz (EUT Sample # 1)

Operating channel frequency = 927.9 MHz (EUT Sample # 5)

The EUT operating voltage is 3.6Vdc (battery powered).

The following bandwidths were used during radiated spurious and line conducted emissions.

Frequency	RBW	VBW
0.15-30MHz	9kHz	30kHz
30-1000MHz	120kHz	1MHz
1-25GHz	1MHz	3MHz



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Original Release

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page 5 of 22



Compliance Statement

The Smart Collar has been found to conform to the following parts of 47 CFR and RSS 210 as detailed below:

RSS-GEN	RSP-100	RSS 210	Part 15	Comments
6.3			15.15(b)	There are no controls accessible to the user that vary the output power.
	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.
6.1, 6.5			15.31	The EUT was tested in accordance with the measurement standards in this section.
			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 internal PCB antenna with -6dBi 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 is battery powered.
		B.10(a)	15.249(a)	The fundamental and harmonics meet the limits in 15.249(a)
		B.10(b)	15.249(d)	Spurious emissions meet the limits in 15.209.
6.6				99% emissions bandwidth plot is provided.



Test Results

Fundamental Measurements

LIMITS

The field strength from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902 - 928 MHz	50	500
2400 - 2483.5 MHz	50	500
5725 - 5875 MHz	50	500
24.0 - 24.25 GHz	250	2500

[15.249(a)]

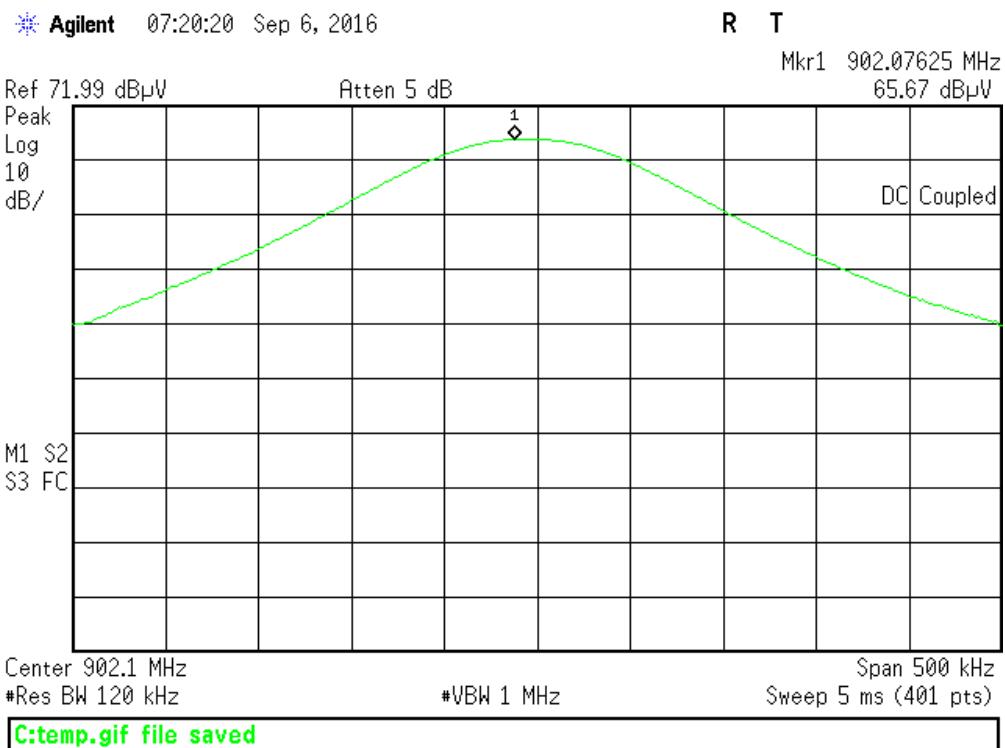
MEASUREMENTS / RESULTS

Radiated Emissions Table

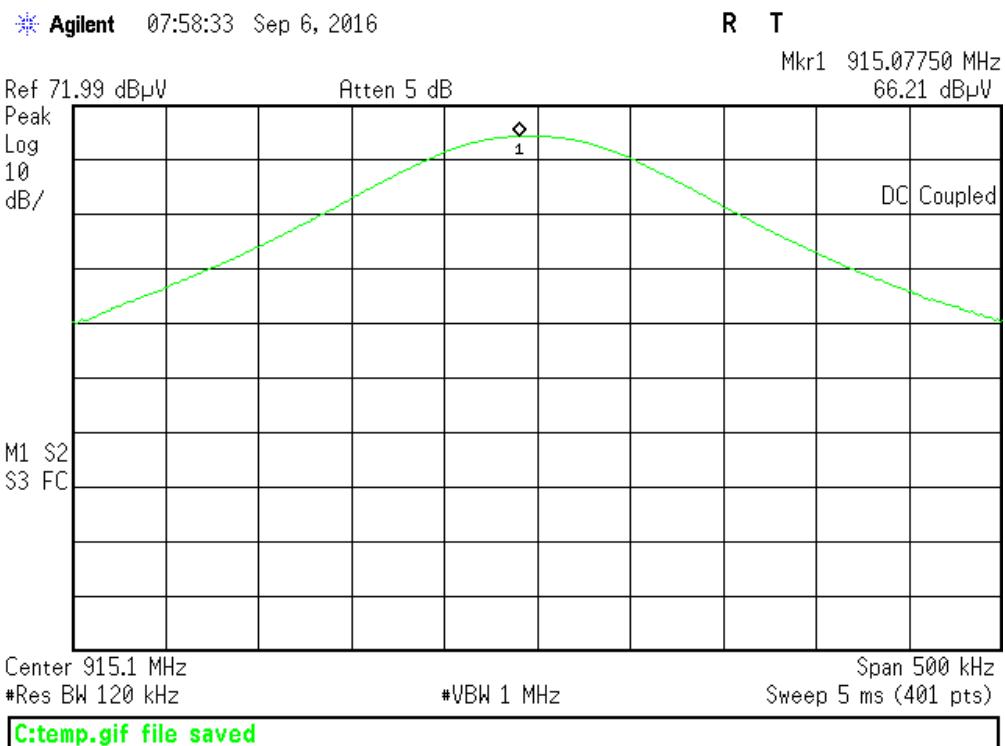
Date: 06-Sep-16	Company: DogWatch Inc.	Work Order: Q1735								
Engineer: Tuyen Truong	EUT Desc: SF-C10	EUT Operating Voltage/Frequency: Battery (3.6Vdc)								
Temp: 23°C	Humidity: 50%	Pressure: 1010mBar								
Frequency Range: 902 to 928 MHz		Measurement Distance: 3 m								
Notes: Sample #1 (915.1 MHz) Sample #8 (902.1 MHz) Sample #5 (927.9 MHz)										
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dB μ V/m)	FCC 15.249			
							Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	
h	902.1	65.7	0.0	22.5	2.1	90.3	93.9	-3.6	Pass	
h	915.1	66.2	0.0	22.4	2.1	90.7	93.9	-3.2	Pass	
h	927.9	66.3	0.0	22.5	2.1	90.9	93.9	-3.0	Pass	
Table Result: Pass		by	-3.0 dB		Worst Freq: 927.9 MHz					
Test Site: EMI Chamber 1		Cable 1: Asset #2051		Cable 2: Asset #1784		Cable 3: ---				
Analyzer: Asset #1327		Preamp: none		Antenna: Red-Brown		Preselector: ---				
CSsoft Radiated Emissions Calculator v 1.017.171								Copyright Curtis-Straus LLC 2000		
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor										



Plot(s)



Peak Power - Low Channel (902.1 MHz)

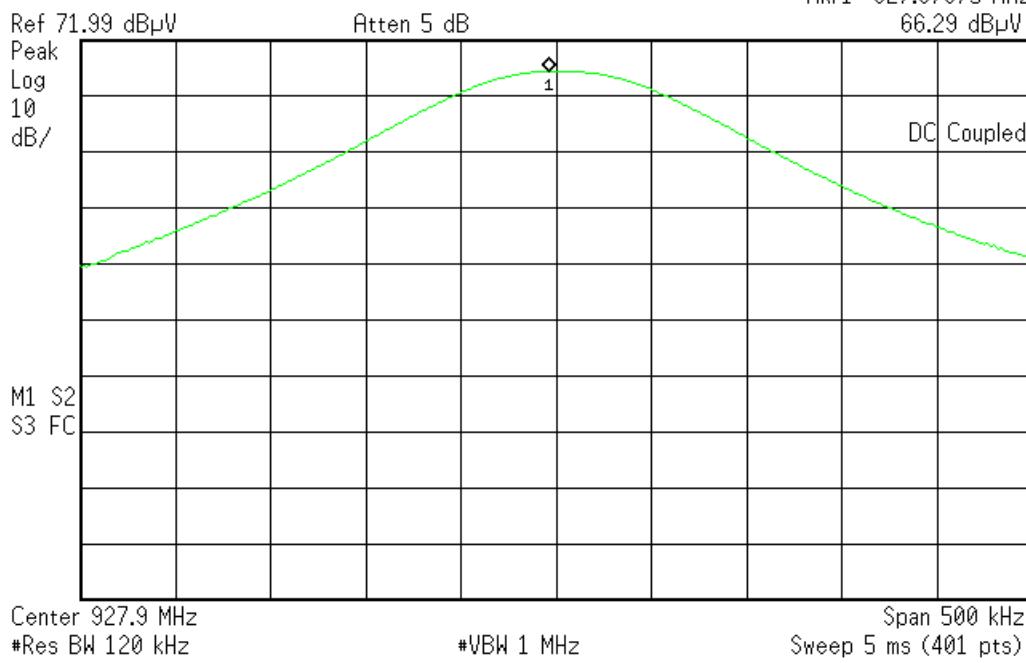


Peak Power - Mid Channel (915.1 MHz)



* Agilent 08:25:00 Sep 6, 2016

R T

Mkr1 927.87875 MHz
66.29 dB μ V

Peak Power - High Channel (927.9 MHz)



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page 9 of 22

Radiated Spurious Emissions LIMITS

15.249 (d) *Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.*

MEASUREMENTS / RESULTS

TX mode

Radiated Emissions Table											
Date: 19-Jul-16	Company: Dogwatch Inc.					Work Order: Q1735					
Engineer: Tuyen Truong	EUT Desc: SF-C10					EUT Operating Voltage/Frequency: 3.6Vdc (batt)					
Temp: 24°C	Humidity: 45%					Pressure: 1002mBar					
Frequency Range: 30 to 1000 MHz					Measurement Distance: 3m						
Notes: All three channels (EUT samples, S/N 1, 5 and 8) were investigated. Only the worst case recorded.									EUT Max Frequencies: 27 MHz		
									EUT TX Frequencies: 902.1 to 927.9 MHz		
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dB μ V/m)	--				
							Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)
v	47.0	37.5	25.5	9.5	0.5	22.0	---	---	40.0	-18.0	Pass
v	66.4	34.8	25.6	8.0	0.6	17.8	---	---	40.0	-22.2	Pass
v	131.6	29.3	25.6	14.0	0.9	18.6	---	---	43.5	-24.9	Pass
v	253.0	36.1	25.6	11.6	1.1	23.2	---	---	46.0	-22.8	Pass
v	258.0	32.8	25.7	12.0	1.1	20.2	---	---	46.0	-25.8	Pass
h	265.2	35.0	25.8	12.9	1.1	23.2	---	---	46.0	-22.8	Pass
v	304.0	33.0	25.8	13.5	1.3	22.0	---	---	46.0	-24.0	Pass
h	311.3	36.1	25.8	13.7	1.3	25.3	---	---	46.0	-20.7	Pass
v	960.0	25.9	25.7	22.9	2.2	25.3	---	---	46.0	-20.7	Pass
v	1000.0	27.8	25.5	23.4	2.3	28.0	---	---	54.0	-26.0	Pass
Table Result: Pass by -18.0 dB							Worst Freq: 47.0 MHz				
Test Site: EMI Chamber 1	Cable 1: Asset #2051			Cable 2: Asset #1784			Cable 3: ---				
Analyzer: Asset #1328	Preamp: Green			Antenna: Red-Brown			Preselector: ---				
CSsoft Radiated Emissions Calculator	v 1.017.165						Copyright Curtis-Straus LLC 2000				
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor											

Rev. 7/4/2016	Spectrum Analyzers / Receivers /Preselectors SA EMI Chamber (1328)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY44210241	Asset 1328	Cat I	Calibration Due 2/26/2017	Calibrated on 2/26/2016
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/21/2017	Calibrated on 3/21/2015	
Preamps /Couplers Attenuators / Filters Green	Range 0.009-2000MHz	MN ZFL-1000-LN	Mfr CS	SN N/A	Asset 802	Cat II	Calibration Due 9/17/2016	Calibrated on 9/17/2015	
Antennas Red-Brown BiLog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A0032406	Asset 1218	Cat I	Calibration Due 12/4/2016	Calibrated on 12/4/2014	
Meteorological Meters TH A#2080 Barometric A#2160		MN HTC-1	Mfr HDE	SN 2080	Asset 2160	Cat II	Calibration Due 4/5/2017 3/7/2017	Calibrated on 4/5/2016 3/7/2016	
Cables Asset #1784 Asset #2051	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II	Calibration Due 3/7/2017 3/2/2017	Calibrated on 3/7/2016 3/2/2016	

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



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page 10 of 22

Radiated Emissions Table

Date: 19-Jul-16		Company: DogWatch Inc.								Work Order: Q1735										
Engineer: Chris Bramley		EUT Desc: SF-C10								EUT Operating Voltage/Frequency: 3.6Vdc										
Temp: 25.7°C		Humidity: 37%								Pressure: 1002mBar										
Frequency Range: 1-6GHz										Measurement Distance: 3m										
Notes:										EUT Max Freq: 27MHz										
EUT TX Freq: 902.1 to 927.9 MHz																				
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC 15.209 High Frequency - Peak			FCC 15.209 High Frequency - Average								
SN:8 - Tx at 902.1MHz									Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)						
h		1804.2	31.33	18.6	18.8	30.5	3.1	46.1	33.4	74.0	-27.9	Pass	54.0	-20.6	Pass					
h		2706.3	34.6	23.3	20.3	32.9	4.6	51.8	40.5	74.0	-22.2	Pass	54.0	-13.5	Pass					
h		3608.4	36.18	25.1	19.1	33.3	5.3	55.7	44.6	74.0	-18.3	Pass	54.0	-9.4	Pass					
h		4510.5	32.02	19.3	17.9	34.2	6.2	54.5	41.8	74.0	-19.5	Pass	54.0	-12.2	Pass					
v		5412.6	33.75	23.2	17.6	34.8	7.1	58.1	47.5	74.0	-15.9	Pass	54.0	-6.5	Pass					
Table Result:		Pass	by	-6.5 dB								Worst Freq: 5412.6 MHz								
Test Site: EMI Chamber 1		Cable 1: Asset #2051								Cable 2: Asset #1784										
Analyzer: Asset #1328		Preamp: Asset #1517								Antenna: Blue Horn										
CSsoft Radiated Emissions Calculator v 1.017.165										Copyright Curtis-Straus LLC 2000										
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor																				

Radiated Emissions Table

Date: 19-Jul-16		Company: Dogwatch Inc.								Work Order: Q1735										
Engineer: Tuyen Truong		EUT Desc: SF-C10								EUT Operating Voltage/Frequency: 3.6V (battery)										
Temp: 22°C		Humidity: 39%								Pressure: 1015mBar										
Frequency Range: 6 to 10 GHz										Measurement Distance: 1m										
Notes: TX on Sample #8 (902.1 MHz)										EUT TX Frequencies: 902.1 to 927.9 MHz										
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC 15.209 High Frequency - Peak			FCC 15.209 High Frequency - Average								
No emissions found in this range within 10dB of limit									Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)						
Table Result:		---	by	---								Worst Freq: --- MHz								
Test Site: EMI Chamber 1		Cable 1: Asset #2051								Cable 2: Asset #1784										
Analyzer: Asset #1328		Preamp: Asset #1517								Antenna: Blue Horn										
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Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor																				

Radiated Emissions Table

Date: 19-Jul-16		Company: DogWatch Inc.								Work Order: Q1735										
Engineer: Chris Bramley		EUT Desc: SF-C10								EUT Operating Voltage/Frequency: 3.6Vdc										
Temp: 25.7°C		Humidity: 37%								Pressure: 1002mBar										
Frequency Range: 1-6GHz										Measurement Distance: 3m										
Notes:										EUT Max Freq: 27MHz										
EUT TX Freq: 902.1 to 927.9 MHz																				
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC 15.209 High Frequency - Peak			FCC 15.209 High Frequency - Average								
SN:1 - Tx at 915.1MHz									Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)						
h		1830.2	31.91	19.1	18.8	30.7	3.1	46.9	34.1	74.0	-27.1	Pass	54.0	-19.9	Pass					
h		2745.3	34.49	21.9	20.2	33.0	4.5	51.8	39.2	74.0	-22.2	Pass	54.0	-14.8	Pass					
h		3660.4	35.91	25.4	19.1	33.4	5.4	55.6	45.1	74.0	-18.4	Pass	54.0	-8.9	Pass					
h		4575.5	32.34	19.4	17.9	34.3	6.0	54.7	41.8	74.0	-19.3	Pass	54.0	-12.2	Pass					
v		5490.6	33.32	21.0	17.6	34.8	6.9	57.4	45.1	74.0	-16.6	Pass	54.0	-8.9	Pass					
Table Result:		Pass	by	-8.9 dB								Worst Freq: 3660.4 MHz								
Test Site: EMI Chamber 1		Cable 1: Asset #2051								Cable 2: Asset #1784										
Analyzer: Asset #1328		Preamp: Asset #1517								Antenna: Blue Horn										
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Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor																				



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page 11 of 22

Radiated Emissions Table

Date: 19-Jul-16 Engineer: Tuyen Truong Temp: 22°C		Company: Dogwatch Inc. EUT Desc: SF-C10 Humidity: 39%		Work Order: Q1735 EUT Operating Voltage/Frequency: 3.6V (battery) Pressure: 1015mBar					
Frequency Range: 6 to 10 GHz				Measurement Distance: 1m					
Notes: TX on Sample #1 (915.1 MHz)				EUT TX Frequencies: 902.1 to 927.9 MHz					
No emissions found in this range within 10dB of limit									
Table Result: --- by --- dB									

Test Site: EMI Chamber 1
Analyzer: Asset #1328
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Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

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Rev. 7/4/2016

Spectrum Analyzers / Receivers / Preselectors SA EMI Chamber (1328)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY44210241	Asset 1328	Cat I	Calibration Due 2/26/2017	Calibrated on 2/26/2016
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/21/2017	Calibrated on 3/21/2015
Preamps / Couplers Attenuators / Filters 1517 HF Preamp	Range 1-20GHz	MN CS	Mfr CS	SN N/A	Asset 1517	Cat II	Calibration Due 8/6/2016	Calibrated on 8/6/2015
Antennas Blue Horn	Range 1-18Ghz	MN 3117	Mfr ETS	SN 157647	Asset 1861	Cat I	Calibration Due 2/8/2017	Calibrated on 2/8/2015
Meteorological Meters Weather Clock (Pressure Only) TH A#2080		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 831 2080	Asset 831 2080	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016
Cables Asset #1784 Asset #2051	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF		Cat II II	Calibration Due 3/7/2017 3/2/2017	Calibrated on 3/7/2016 3/2/2016	

Radiated Emissions Table

Date: 06-Sep-16 Engineer: Tuyen Truong Temp: 23°C		Company: DogWatch Inc. EUT Desc: SF-C10 Humidity: 50%		Work Order: Q1735 EUT Operating Voltage/Frequency: 3.6Vdc (Battery) Pressure: 1010mBar					
Frequency Range: 1 to 6 GHz				Measurement Distance: '3m					
Notes: tx on high channel (927.9 MHz) - EUT S/N: 5				EUT Tx Freq: 902.1 to 927.9 MHz					
No emissions found in this range within 10dB of limit									
Table Result: Pass by -3.8 dB									

Test Site: EMI Chamber 1
Analyzer: Asset #1327
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Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

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page 12 of 22

Radiated Emissions Table

Date: 06-Sep-16	Company: DogWatch Inc.	Work Order: Q1735																	
Engineer: Tuyen Truong	EUT Desc: SF-C10	EUT Operating Voltage/Frequency: 3.6Vdc (Battery)																	
Temp: 23°C	Humidity: 50%	Pressure: 1010mBar																	
Frequency Range: 6 to 10 GHz		Measurement Distance: 1 m																	
Notes: tx on high channel (927.9 MHz) - EUT S/N: 5																			
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dB μ V/m)	---			FCC 15.209									
							Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)							
No emissions found in this range																			
Table Result:		---	by	---	dB				Worst Freq:	--- MHz									
Test Site: EMI Chamber 1		Cable 1: Asset #2051		Cable 2: Asset #1784			Cable 3: ---			Preselector: ---									
Analyzer: Asset #1327		Preamp: Asset #1517		Antenna: Blue Horn			Copyright Curtis-Straus LLC 2000												
CSsoft Radiated Emissions Calculator v 1.017.171																			
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor																			

Rev. 9/1/2016

Spectrum Analyzers / Receivers / Preselectors SA EMI Chamber (1327)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY45103416	Asset 1327	Cat I	Calibration Due 8/4/2017	Calibrated on 8/4/2016
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015	Range 1-18GHz		Cat I	Calibration Due 5/23/2017	Calibrated on 5/23/2015
Preamps / Couplers Attenuators / Filters 1517 HF Preamp High Pass Filter	Range 1-20GHz 0.03-9 GHz	MN CS VHP-16	Mfr CS Mini-Circuits	SN N/A NA	Asset 1517 1288	Cat II II	Calibration Due 8/14/2017 1/7/2017	Calibrated on 8/14/2016 1/7/2016
Antennas Blue Horn	Range 1-18Ghz	MN 3117	Mfr ETS	SN 157647	Asset 1861	Cat I	Calibration Due 2/8/2017	Calibrated on 2/8/2015
Meteorological Meters Weather Clock (Pressure Only) TH A#2080	MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2080	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016	
Cables Asset #1784 Asset #2051	Range 9kHz - 18GHz 9kHz - 18GHz	Mfr Florida RF Florida RF			Cat II II	Calibration Due 3/7/2017 3/2/2017	Calibrated on 3/7/2016 3/2/2016	

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



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page 13 of 22

RX mode

Radiated Emissions Table															
Date: 20-Jul-16	Company: Dogwatch Inc.					Work Order: Q1735									
Engineer: Ahmed Ahmed	EUT Desc: SF-C10					EUT Operating Voltage/Frequency: 120Vac/60Hz									
Temp: 22°C	Humidity: 39%					Pressure: 1002mBar									
Frequency Range: 30-1000MHz						Measurement Distance: 3m									
Notes: RX mode, SN:59. No emissions, noise floor peak readings.						EUT Max Freq: 27MHz EUT TX Freq: 902.1 to 927.9 MHz									
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dB μ V/m)	---			FCC 15.209					
							Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)			
V	42.1	34.0	25.2	12.4	0.5	21.7	---	---	40.0	-18.3	Pass				
V	66.4	32.8	25.3	8.0	0.6	16.1	---	---	40.0	-23.9	Pass				
H	66.4	23.4	25.3	8.0	0.6	6.7	---	---	40.0	-33.3	Pass				
V	148.8	25.6	25.3	12.5	1.0	13.8	---	---	43.5	-29.7	Pass				
H	493.2	23.8	25.4	18.0	1.7	18.1	---	---	46.0	-27.9	Pass				
H	619.3	23.7	24.8	19.1	1.9	19.9	---	---	46.0	-26.1	Pass				
Table Result: Pass by -18.3 dB						Worst Freq: 42.1 MHz									
Test Site: EMI Chamber 1			Cable 1: Asset #2051			Cable 2: Asset #1784									
Analyzer: Asset #1328			Preamp: Blue-Blk			Antenna: Red-Brown									
CSsoft Radiated Emissions Calculator v1.017.165 Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor						Copyright Curtis-Straus LLC 2000									

Rev. 8/21/2016										
Spectrum Analyzers / Receivers/Preselectors SA EMI Chamber (1328)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY44210241	Asset 1328	Cat I	Calibration Due 2/26/2017	Calibrated on 2/26/2016		
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/21/2017	Calibrated on 3/21/2015		
Preamps /Couplers Attenuators / Filters Blue-Black	Range 0.009-2000MHz	MN ZFL-1000-LN	Mfr CS	SN N/A	Asset 800	Cat II	Calibration Due 12/27/2016	Calibrated on 12/27/2015		
Antennas Red-Brown BiLog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A0032406	Asset 1218	Cat I	Calibration Due 12/4/2016	Calibrated on 12/4/2014		
Meteorological Meters Weather Clock (Pressure Only) TH A#2080	MN BA928 HTC-1	Mfr Oregon Scientific	SN C3166-1	Asset 831	Cat I	Calibration Due 4/28/2018	Calibrated on 4/28/2016			
				Asset 2080	Cat II	Calibration Due 4/5/2017	Calibrated on 4/5/2016			
Cables Asset #1784 Asset #2051	Range 9kHz - 18GHz 9kHz - 18GHz	Mfr Florida RF Florida RF			Cat II	Calibration Due 3/7/2017	Calibrated on 3/7/2016			
					Cat II	Calibration Due 3/2/2017	Calibrated on 3/2/2016			

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

Radiated Emissions Table															
Date: 19-Jul-16	Company: DogWatch Inc.					Work Order: Q1735									
Engineer: Chris Bramley	EUT Desc: SF-C10					EUT Operating Voltage/Frequency: 3.6Vdc									
Temp: 25.7°C	Humidity: 37%					Pressure: 1002mBar									
Frequency Range: 1-6GHz						Measurement Distance: 3m									
Notes: SN:59 Rx Mode						EUT Max Freq: 27MHz EUT TX Freq: 902.1 to 927.9 MHz									
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC 15.209 High Frequency - Peak						
									Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	
No emissions found															
Table Result: --- by --- dB						Worst Freq: --- MHz									
Test Site: EMI Chamber 1			Cable 1: Asset #2051			Cable 2: Asset #1784									
Analyzer: Asset #1328			Preamp: Asset #1517			Antenna: Blue Horn									
CSsoft Radiated Emissions Calculator v1.017.165 Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor						Copyright Curtis-Straus LLC 2000									



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page 14 of 22

Radiated Emissions Table

Date: 19-Jul-16 Engineer: Tuyen Truong Temp: 22°C		Company: Dogwatch Inc. EUT Desc: SF-C10 Humidity: 39%		Work Order: Q1735 EUT Operating Voltage/Frequency: 3.6V (battery) Pressure: 1015mBar								
Frequency Range: 6 to 10 GHz				Measurement Distance: 1m								
Notes: RX mode (EUT SN# 59)				EUT TX Frequencies: 902.1 to 927.9 MHz								
No emissions found in this range within 10dB of limit												
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC 15.209 High Frequency - Peak		FCC 15.209 High Frequency - Average	
Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)							

Test Site: EMI Chamber 1
Analyzer: Asset #1328
CSsoft Radiated Emissions Calculator v 1.017.165
Adjusted Reading = Reading * Preamp Factor + Antenna Factor + Cable Factor

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Spectrum Analyzers / Receivers / Preselectors SA EMI Chamber (1328)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY44210241	Asset 1328	Cat I	Calibration Due 2/26/2017	Calibrated on 2/26/2016
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/21/2017	Calibrated on 3/21/2015
Preamps / Couplers Attenuators / Filters 1517 HF Preamp	Range 1-20GHz	MN CS	Mfr CS	SN N/A	Asset 1517	Cat II	Calibration Due 8/6/2016	Calibrated on 8/6/2015
Antennas Blue Horn	Range 1-18Ghz	MN 3117	Mfr ETS	SN 157647	Asset 1861	Cat I	Calibration Due 2/8/2017	Calibrated on 2/8/2015
Meteorological Meters Weather Clock (Pressure Only) TH A#2080		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2080	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016
Cables Asset #1784 Asset #2051	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF		Cat II II	Calibration Due 3/7/2017 3/2/2017	Calibrated on 3/7/2016 3/2/2016	



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

N/A. EUT is battery powered only.



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page 16 of 22

Occupied Bandwidth

REQUIREMENT

When an occupied bandwidth is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 6.6]

MEASUREMENTS / RESULTS

99% Occupied Bandwidth - Radiated Emissions Table																
Date: 19-Jul-16	Company: Dogwatch Inc.						Work Order: Q1735									
Engineer: Tuyen Truong	EUT Desc: SF-C10						EUT Operating Voltage/Frequency: 3.6Vdc (battery)									
Temp: 24°C	Humidity: 45%						Pressure: 1002mBar									
Frequency Range: Fundamental Frequencies						Measurement Distance: 3m										
Notes:						EUT TX Frequencies: 902.1 to 927.9 MHz										
Antenna Polarization (H / V)	Channel / Frequency (MHz)	99% OCC BW Readings (kHz)														
h	902.1	14.0651														
h	915.1	14.0628														
h	927.9	14.1219														
Test Site: EMI Chamber 1	Cable 1: Asset #2051			Cable 2: Asset #1784			Cable 3: ---									
Analyzer: Asset #1328	Preamp: none			Antenna: Red-Brown			Preselector: ---									
CSsoft Radiated Emissions Calculator	v 1.017.165						Copyright Curtis-Straus LLC 2000									
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor																

Rev. 7/4/2016

Spectrum Analyzers / Receivers /Preselectors SA EMI Chamber (1328)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY44210241	Asset 1328	Cat I	Calibration Due 2/26/2017	Calibrated on 2/26/2016
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/21/2017	Calibrated on 3/21/2015
Preamps /Couplers Attenuators / Filters none (n/a)	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Antennas Red-Brown Biolog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A0032406	Asset 1218	Cat I	Calibration Due 12/4/2016	Calibrated on 12/4/2014
Meteorological Meters TH A#2080 Barometric A#2160		MN HTC-1	Mfr HDE	SN 2080	Asset 2160	Cat II	Calibration Due 4/5/2017 3/7/2017	Calibrated on 4/5/2016 3/7/2016
Cables Asset #1784 Asset #2051	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II	Calibration Due 3/7/2017 3/2/2017	Calibrated on 3/7/2016 3/2/2016

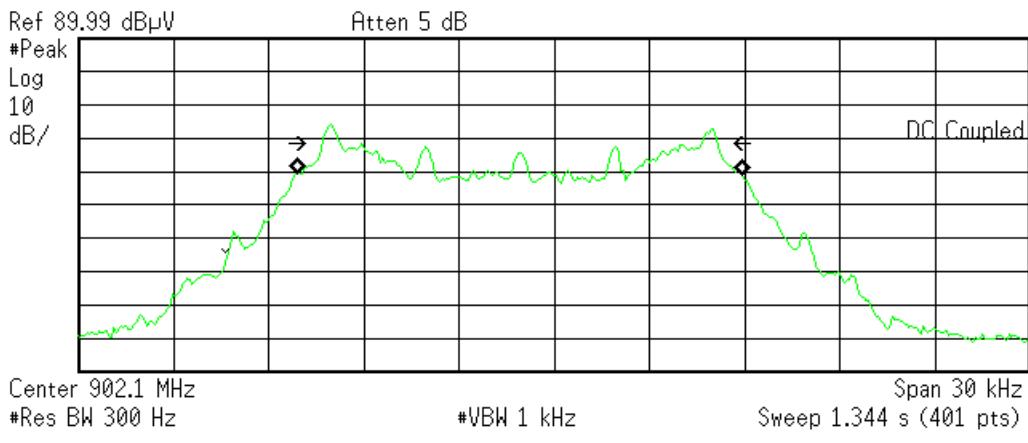
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



Plot(s)

* Agilent 11:23:35 Jul 19, 2016

R T



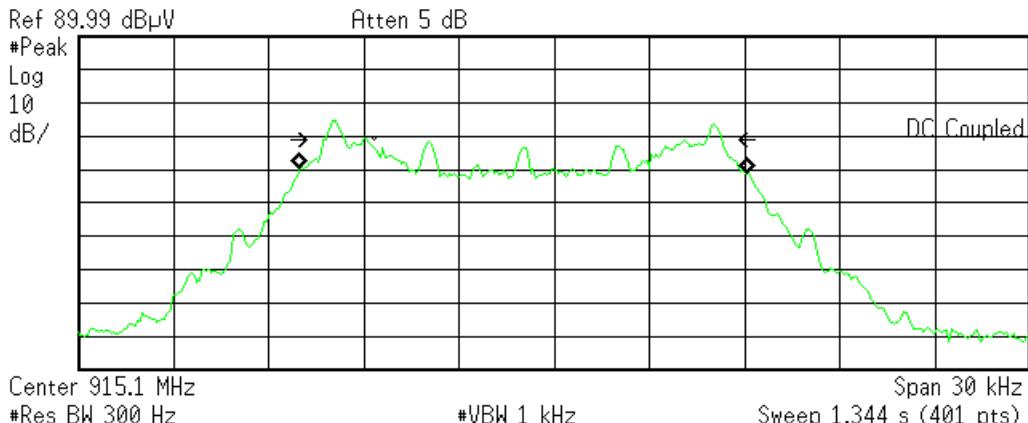
Transmit Freq Error -1.086 kHz
x dB Bandwidth 12.488 kHz

C:\temp.gif file saved

Occupied Bandwidth - Low Channel (902.1 MHz)

* Agilent 10:57:29 Jul 19, 2016

R T



Transmit Freq Error -963.911 Hz
x dB Bandwidth 12.572 kHz

C:\temp.gif file saved

Occupied Bandwidth - Mid channel (915.1 MHz)

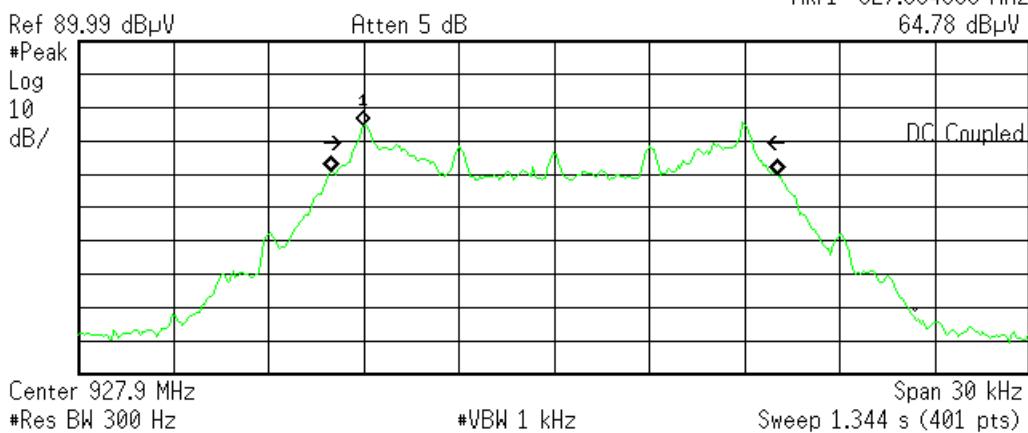


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* Agilent 11:58:34 Jul 19, 2016

R T

Mkr1 927.894000 MHz
64.78 dB μ V

Transmit Freq Error 10.300 Hz
x dB Bandwidth 12.481 kHz

C:\temp.gif file saved

Occupied Bandwidth - High Channel (927.9 MHz)



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page 19 of 22

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 (Ucispqr)
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 (Ucispqr)
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-STRAUSS (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 were 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.

15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.

(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.

Rev.160009121(2)_#684340 v13CS



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page 22 of 22