

Test Report

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

Report No EQ2858-1

Client | SignalFire Telemetry, Inc.

Address 43 Broad Street, C-300 Hudson, MA 01749

Phone (978) 212 - 2868

Items tested Pressure Scout

FCC ID W8V-PS 8373A-PS 0018614347

Equipment Type Part 15 Spread Spectrum Transmitter

Equipment Code DSS

Test Dates October 11-12, 2016

Prepared by

Zac Johnson / Test/Engineer

Authorized by

Yunus Faziløglu – Sr. EMC Engineer

Issue Date

11/3/2016

Conditions of Issue

This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 27 of this report.

Curtis-Straus LLC is accredited to ISO/IEC 17025 by A2LA for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation. See our scope of accreditation at the end of this test report. Any opinions or interpretations expressed in this report are outside the scope of our A2LA accreditation as A2LA only accredits testing.

Testing Cert. No. 1627-01





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Form Final Report REV 7-20-07 (DW)





Summary

This test report supports an application for certification of a transmitter operating pursuant to: CFR Title 47 FCC 15.247, ISED Canada RSS-247 Issue 1

The product is the Pressure Scout. It is a frequency hopping transmitter that operates in the frequency range of 905MHz - 924.8MHz. It has an internal PCB chip antenna with 2dBi gain.

We found that the product met the above requirements without modification. The test sample was received in good condition.

Release Control Record

Issue No. Reason for change

November 3, 2016

Date Issued

1 Original Release



ACCREDITED

Test Methodology

All the testing was performed according to the following rules/procedures/documents; CFR Title 47 FCC 15.247, ISED Canada RSS-247 Issue 1, RSS-Gen Issue 4 and ANSI C63.10-2013.

Radiated emissions were maximized around 3 orthogonal planes. EUT antenna is integral and therefore could not be maximized separately.

Conducted emissions testing at the antenna port was performed.

AC mains conducted emissions testing was not performed since the device is battery powered only.

3 channels were tested as follows:

Low channel = 905 MHz

Middle channel = 915 MHz

High channel = 924.8 MHz

When hopping, the product was configured for the transmission to be either in the range of 905-914.8MHz (Low Band), or 915-924.8MHz (High Band) respectively.

Following bandwidths were used during radiated spurious emissions testing.

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





Product Tested - Configuration Documentation

EUT Configuration													
Work O	rder:	Q2858											
Comp	pany:	SignalF	gnalFire Telemetry										
Company Add	lress:	43 Broa	ad St, Suite A	A-403									
Hudson, MA, 01749													
Client pre	esent: Josh Schadel												
Cor	ntact:	Alfred	Hamilton										
				MN			PN			SN			
	EUT:		Press	sure Scout		840	0-0133-01			Sampl	e 1		
EUT Descrip	otion:	Wireles	ss pressure se	ensor									
EUT TX Frequ	ency:	905 – 924.8 MHz											
EUT Max Frequ	ency:	32 MH	z (Associate	d Circuitry)									
EUT Components				Mi	N				SN				
Support Equipment				Mi	N				SN				
Lenovo Laptop				x10	0e								
Port Label	Port	Type	# ports	# populated	cable type	shielded	ferrites	length (m)	in/out	under test	comment		
Config	4 Pin	Pin 1 0 4 Pin No No 1 in No *Used for setup only											
Software Operating Mode Description: EUT is set to transmit on Low (905 MHz), Mid (915 MHz) and High (924.8 MHz) channels while powered by 3.6VDC internal lithium battery.													
201 is set to transmit (ECT is set to transmit on Eow (705 MHz), and (715 MHz) and right (724.0 MHz) enames while powered by 5.04 DC internal number battery.												





Statement of Conformity

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.
	4		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			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 internal PCB chip 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	The unit complies with the requirements of 15.207
			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.





Test Results

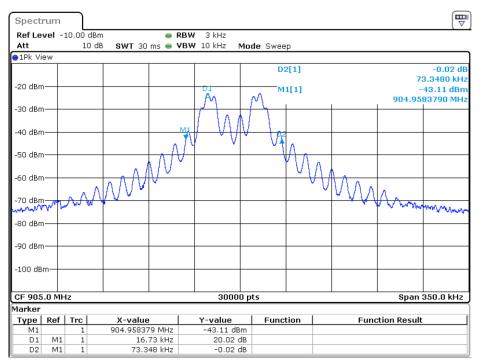
20dB Bandwidth

REQUIREMENT

15.247(a)(1)(i): The maximum allowed 20dB bandwidth of the hopping channel is 500kHz RSS-247 Issue 1 Section 5.1: The maximum 20 dB bandwidth of the hopping channel shall be 500 kHz.

MEASUREMENTS / RESULTS

PLOTS

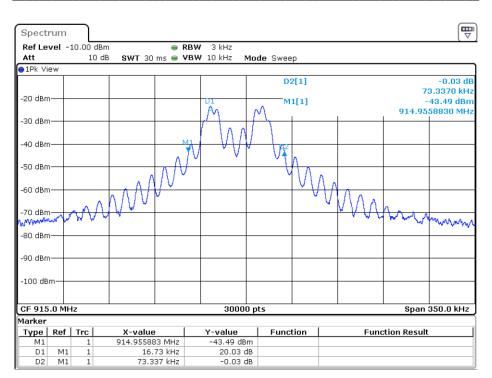


Date: 11.OCT.2016 10:13:35

Low Channel (905 MHz) 20dB Bandwidth = 73.348kHz

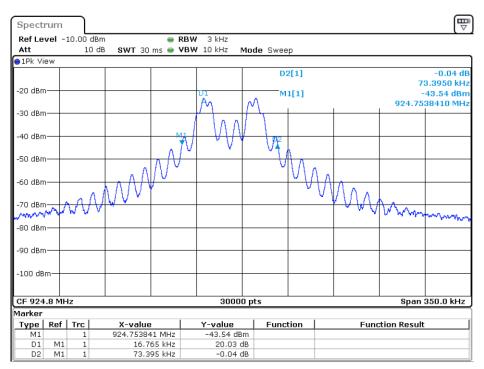






Date: 11.OCT.2016 10:54:17

Middle Channel (915MHz) 20dB Bandwidth = 73.337kHz



Date: 12.OCT.2016 11:54:41

High Channel (924.8MHz) 20dB Bandwidth = 73.395kHz



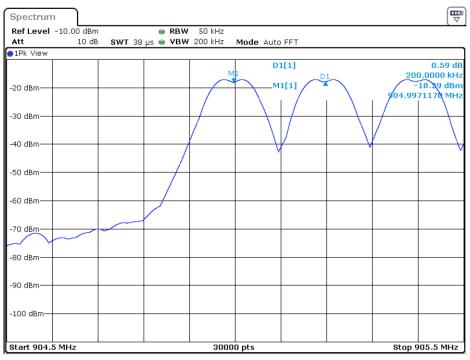
Channel Separation

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. [15.247 (a) (1)]

MEASUREMENTS / RESULTS

Channels are spaced by 200kHz as seen in the following plots. This is higher than both 25kHz and the 20dB bandwidth of the product.

Plots

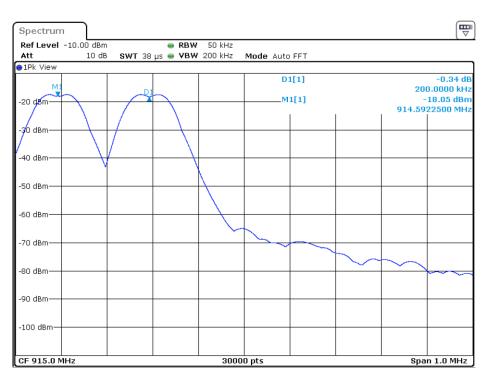


Date: 11.OCT.2016 11:52:20

Channel Spacing - Low Band - Low Edge

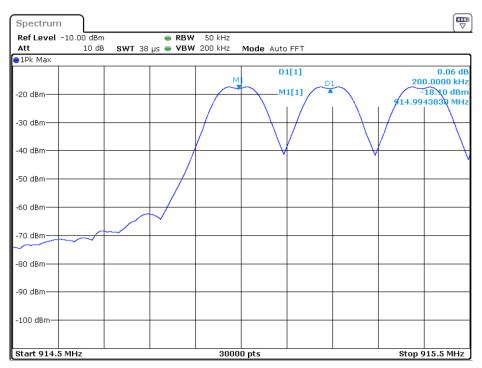






Date: 11.OCT.2016 12:03:09

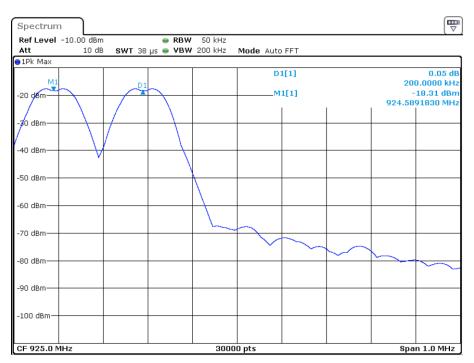
Channel Spacing - Low Band - High Edge



Date: 11.OCT.2016 13:19:42

Channel Spacing - High Band - Low Edge





Date: 11.OCT.2016 13:28:12

Channel Spacing - High Band - High Edge



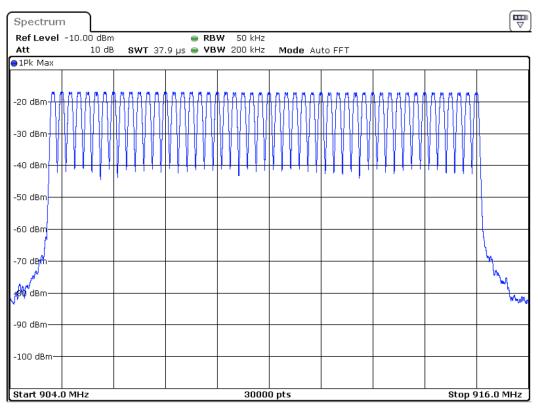


Number of Channels

For frequency hopping systems operating in the 902-928MHz band: if the 20dB bandwidth of the hopping channel is less than 250kHz, the system shall use at least 50 hopping frequencies [15.247 (a) (1) (i)]

MEASUREMENTS / RESULTS

PLOTS



Date: 11.OCT.2016 13:46:25

Number of Channels - 50 Channels (Low Band)





Spectrum Ref Level -10.00 dBm ■ RBW 50 kHz Att 10 dB **SWT** 37.9 µs ● **VBW** 200 kHz Mode Auto FFT ● 1Pk View -20 dBm--30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 0 dBm -90 dBm· -100 dBm CF 920.0 MHz Span 12.0 MHz 30000 pts

Date: 11.OCT.2016 13:34:46

Number of Channels - 50 Channels (High Band)





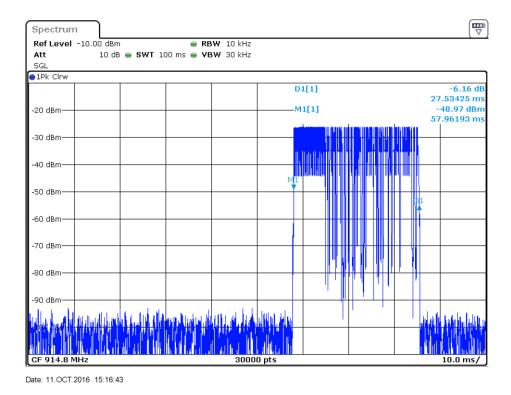
Dwell Time

For frequency hopping systems operating in the 902-928MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz ...the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period;

[15.247 (a) (1) (i)]

MEASUREMENTS / RESULTS

Plots

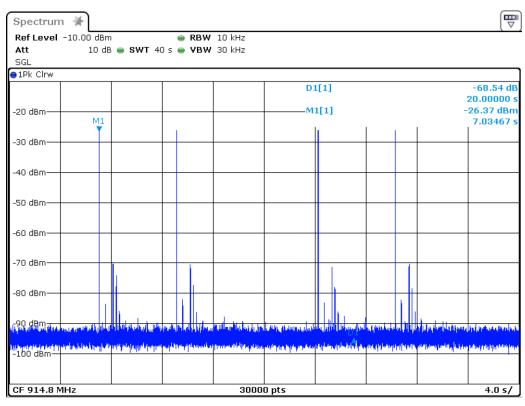


Single Hop = 27.53425 ms

Duty-Cycle Correction Factor = 20*log(27.53425/100) = -11.2dB







Date: 11.OCT.2016 15:13:56

3 hops within a 20sec period

Dwell time in a 20sec period = 3*27.53425ms = 82.60275ms Maximum Limit = 400ms





Peak Output Power

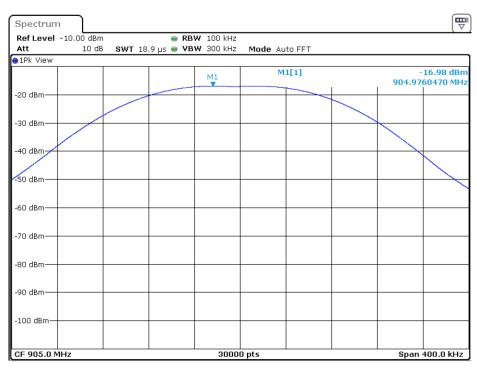
LIMIT

Conducted Output Power: 1 Watt [15.247(b) (2)]

MEASUREMENTS / RESULTS

Peak Output Power									
Date: Oct-11-2016Company: SignalFire Telemetry, Inc.Work Order: Q2858									
Engineer: Yunus Faz	ziloglu	EUT Desc:	Pressure Scout		EUT Opera	ting Voltage/	Frequency:	3.6VDC	
Temp: 21.3°C		Humidity:	34%	Pressure: 101	2mbar			Battery	
Freque	ency Range	: 905-925M	Hz						
Notes:									
						FCC	15.247, RS	S-247	
Frequency	Reading		Attenuation	Fin	al Conducted Reading	Limit	Margin	Result	
(MHz)	(dBm)		(dB)		(dBm)	(dBm)	(dB)	(Pass/Fail)	
905	-16.98		29.58		12.60	30.0	-17.40	Pass	
915	-17.41		29.58		12.17	30.0	-17.83	Pass	
924.8	-17.73		29.58		11.85	30.0	-18.15	Pass	
Table Result:	Pass	by	-17.40 dB		И	orst Freq:	905.0	MHz	
Test Site: Wireless 7 Analyzer: A2200	Test Room A	Attenuation:	A2121				Copyright Curti	s-Straus LLC 2000	

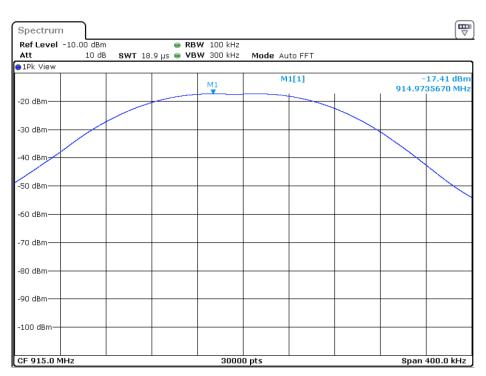
PLOTS



Date: 11.OCT.2016 15:56:23

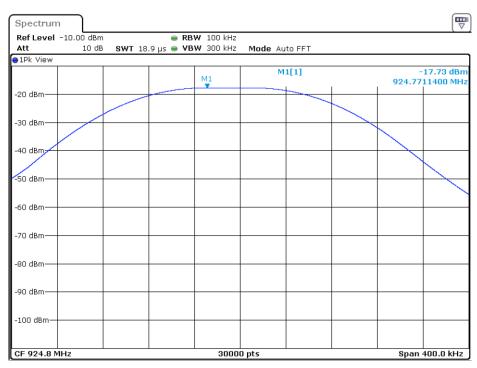
Peak Output Power - Low Channel (905 MHz)





Date: 11.OCT.2016 16:22:54

Peak Output Power - Middle Channel (915 MHz)



Date: 12.OCT.2016 12:09:34

Peak Output Power - High Channel (924.8MHz)



Conducted Spurious Emissions

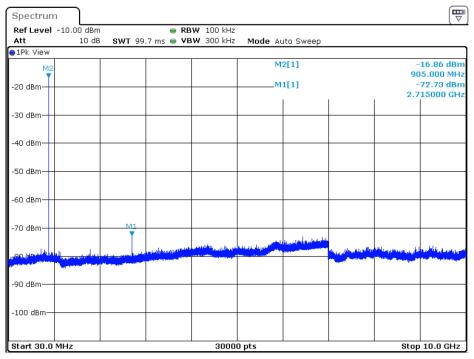
LIMITS

In any 100kHz 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 within the band that contains the highest level of the desired power, based on either a RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

[15.247(d)]

MEASUREMENTS / RESULTS

PLOTS

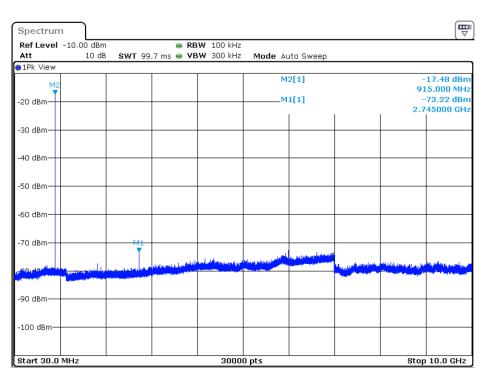


Date: 11.OCT.2016 16:06:27

Low Channel (905 MHz)

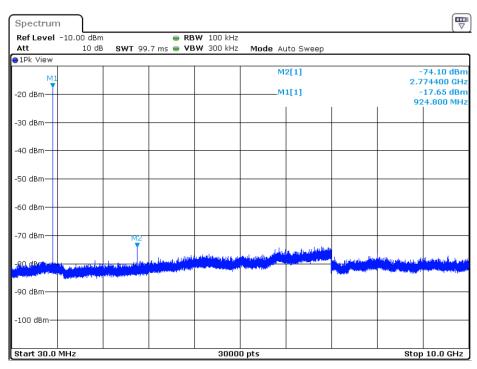






Date: 11.OCT.2016 16:17:45

Middle Channel (915MHz)

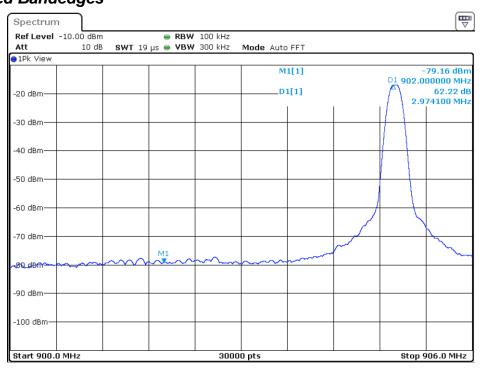


Date: 12.OCT.2016 12:07:21

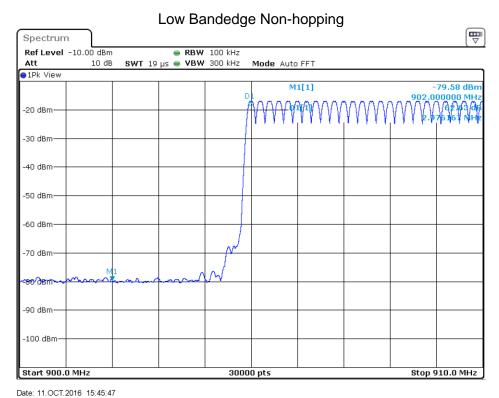
High Channel (924.8 MHz)



Conducted Bandedges



Date: 11.OCT.2016 15:51:04



Low Bandedge Hopping

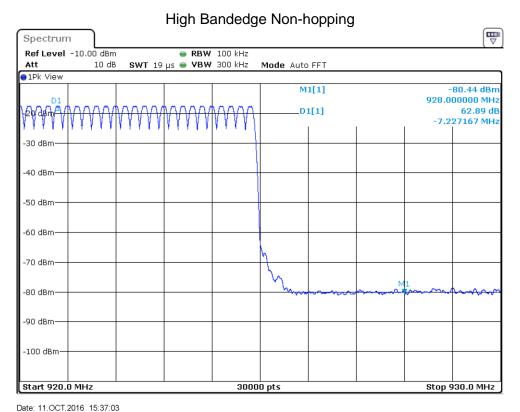


ACCREDITED

Tating Carl No. 1627.01

Spectrum Ref Level -10.00 dBm RBW 100 kHz Att SWT 19 µs 👄 VBW 300 kHz Mode Auto FFT ●1Pk View M1[1] -78.35 dBm 928.000000 MHz D1[1] 60.66 dB -20 dBm -3.228900 MHz -30 dBm 40 dBm--50 dBm -60 dBm -70 dem -80 dBm--90 dBm -100 dBm-Start 924.0 MHz 30000 pts Stop 930.0 MHz

Date: 12.OCT.2016 12:00:13



High Bandedge Hopping



Equipment used for the following tests:
20dB Bandwidth
Channel Separation
Number of Hopping Channels
Dwell Time
Peak Output Power
Conducted Spurious Emissions and Bandedges

Signal Generators	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on 6/1/2016
FSV40 Signal/Spectrum Analyzer	10Hz-40GHz	FSV40	ROHDE & SCHWARZ	101551	2200		6/1/2017	
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset 2121	Cat	Calibration Due	Calibrated on
API - 30dB 20W Attenuator	9KHz-40GHz	89-30-11	API Weinschel	703		I	2/10/2017	2/10/2016
Meteorological Meters Weather Clock (Pressure Only) TH A#2085		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2085	Cat 	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016





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	l Emissic											
Date: 12-Oct-16 Company: Signal Fire Telemetry										=	Vork Order:	
•	Ahmed Ahmed	d	EUT Desc:		Scout				EUT Operat	ing Voltage/	Frequency:	3.6VDC (Battery)
Temp:	25C		Humidity:	26%		Pressure:	1002mbar					
	Freque	ncy Range:	30-1000MF	Hz					Measureme	nt Distance:	3 m	
Notes:	Center channel			orientation ((X)				EU	T Max Freq:	924.8MHz	
Antenna	3		Preamp	Antenna	Cable	Adjusted					FCC Cla	ss B
Polarization (H/V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
V	49.6	38.0	25.3	8.3	0.5	21.5	(ubp v/m)	(ub)	(1 033/1 011)	40.0	-18.5	Pass
v	65.5	36.4	25.4	7.9	0.6	19.5				40.0	-20.5	Pass
V	108.25	31.6	25.4	12.2	0.8	19.2				43.5	-24.3	Pass
Н	151.75	40.0	25.1	12.5	1.0	28.4				43.5	-15.1	Pass
Н	289.5	27.2	25.4	13.5	1.3	16.6				46.0	-29.4	Pass
Н	830.0	28.2	25.5	21.8	2.1	26.6				46.0	-19.4	Pass
Table	e Result:	Pass	by	-15.1	dB				W	orst Freq:	151.75	MHz
		alculator	Preamp: v 1.017.174			actor			2: Asset #1784 na: Red-Brown		Сору	right Curtis-Straus LLC 200
Rev. 10/2/2016 Spectrum Analyz SA EMI Chamber		Preselectors	Rai 9kł	nge Hz-13.2 GHz		MN E4405B	Mfr Agilent		SN MY44210241	Asset Cat 1328 I		on Due Calibrated on 2/26/2017 2/26/2020
- Radiated Emissio EMI Chamber 1	ons Sites		FC	C Code	7′	IC Code 19150 2762A-6	VCCI C A-0015		Range 30-1000MHz	Cat II		on Due Calibrated on /21/2017 3/21/201
- Preamps /Couple Black	rs Attenuators / F	Filters		nge 09-2000MHz		MN ZFL-1000-LN	Mfr CS		SN N/A	Asset Cat 799 II		on Due Calibrated on /12/2017 4/12/20
- Antennas Red-Brown Bilog				nge 2000MHz		MN JB1	Mfr Sunol		SN A0032406	Asset Cat 1218 I		on Due Calibrated on 2/4/2016 12/4/20
_ Meteorological Mo Weather Clock (F TH A#2080						MN BA928 HTC-1	Mfr Oregon HDE	Scientific	SN C3166-1	Asset Cat 831 I 2080 II	4	on Due Calibrated on /28/2018 4/28/20 4/5/2017 4/5/20

Mfr Florida RF



Cables Asset #1784

ACCREDITED
Testing Cert. No. 1627-01

Calibration Due Calibrated on 3/7/2017 3/7/2016

3/2/2016

3/2/2017

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

Radiated Emissions Table Company: Signal Fire Telemetry Work Order: Q2858 Date: 12-Oct-16 Engineer: Ahmed Ahmed EUT Desc: Pressure Scout EUT Operating Voltage/Frequency: 3.6VDC (Battery) Temp: 25C Humidity: 26% Pressure: 1002 Measurement Distance: 3 m Frequency Range: 1-10GHz Notes: Worst case orientation (X) DCCF = -11.2dB, Average EUT Max Freg: 924.8MHz FCC Class B High Frequency - Average Antenna Cable Adjusted Adjusted Peak Reading Factor Facto Peak Reading Avg Reading Limit Result Frequency Reading Margin Limit Margin Result 1810.0 41.4 30.2 27.0 42.5 74.0 -20.3 Pass 54.0 -11.5 Pass Н 1830.0 42.4 31.2 17.8 27.2 3.1 54.9 43.7 74.0 -19.1 Pass 54.0 -10.3Pass 43.1 31.9 27.2 3.1 55.6 44.4 1830.0 17.8 74.0 -18.4 Pass 54.0 -9.6 Pass 1849.6 43.3 32.1 17.8 27.3 3.2 56.0 44.8 74.0 -18.0 Pass 54.0 -9.2 Pass 1849.6 41.0 27.3 53.7 42.5 74.0 Pass 54.0 -11.5 29.8 17.8 3.2 Pass -20.3 2715.0 46.0 34.8 19.3 29 2 46 60.5 49.3 74 0 -13.5 Pass 54.0 -47 Pass 2715.0 41.5 -9.2 30.3 19.3 29.2 4.6 56.0 44.8 74.0 -18.0 Pass 54.0 Pass 4.5 4.5 2745.0 41 7 30.5 19.3 29.2 56.1 44 9 74 0 -17.9 Pass 54.0 -9.1 Pass -7.8 43.0 57.4 54.0 2745.0 Н 31.8 19.3 29.2 46.2 74.0 -16.6 Pass Pass 2774.4 2774.4 44.1 32.9 31.7 19.4 29.2 29.2 4.5 4.5 58.4 57.2 47.2 74.0 74.0 -15.6 -16.8 Pass 54.0 54.0 -6.8 -8.0 Pass 42.87 46.0 Pass 19.4 Pass

49.2

48.8

47.9 47.5

47.3

46.1

43.6

43.8

74.0

74.0

74.0 74.0

74.0

74.0

74.0

74.0

-13.6

-14.0

-14.9 -15.3

-15.5

-16.7

-19.0

-19.2

-19.0

-18.3

-18.7

Pass

54.0

54.0

54.0

54.0

54.0

54.0

54.0

54.0

54.0

-5.2

-6.1 -6.5

-6.7

-7.9

-10.2

-10.4

-10.2

-9.9

3/2/2017

3/2/2016

Table Result: Pass by -4.7 dB Worst Freq: 2715.0 MHz

60.4

60.0

59.1 58.7

58.5

57.3

54.8

55.0

 Test Site:
 EMI Chamber 1
 Cable 1:
 Asset #2051

 Analyzer:
 Asset #1328
 Preamp:
 Brown

19.0

19.0

18.9

18.7

17.8

17.7

31.6

31.6

31.8 31.8

32.1

32.4

32.4

32.6

32.7

5.3

5.4 5.4

5.5

5.5

6.2

6.2

6.0

6.0

3620.0

3620.0

3660.0 3660.0

3699.2

3699.2

4525.0

4525.0

4575.0

4575.0

4624.0

4624.0

Н

н

42.5

42.1

40.8 40.4

39.6

38.4

34.2

34.0

35.0

34.1

34.6

diusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

30.9

29.6

29.2

28.4

27.2

23.0

22.8

22.9

23.4

Cable 2: Asset #1784 Antenna: Black Horn

Ш

Copyright Curtis-Straus LLC 20

Pass

Rev. 10/2/2016 Spectrum Analyzers / Receivers / Preselec Range MN Mfr Asset Cat Calibration Due Calibrated on MY44210241 SA EMI Chamber (1328) 9kHz-13.2 GHz E4405B Agilent 1328 I 2/26/2017 2/26/2016 Radiated Emissions Sites FCC Code IC Code VCCI Code Range Cat Calibration Due Calibrated on EMI Chamber 1 719150 2762A-6 A-0015 1-18GHz 5/23/2017 5/23/2015 Preamps /Couplers Attenuators / Filters MN Mfr SN Calibration Due Range Cat Calibrated on Asset CS CS N/A 1523 II 9/25/2017 Brown 1-10GHz 9/25/2016 Antennas Range MNMfr SN Asset Cat Calibration Due Calibrated on Black Horn 1-18GHz 3115 EMCO 9703-5148 56 I 8/29/2018 8/29/2016 Meteorological Meters MN Mfr SN Asset Cat Calibration Due Calibrated on Weather Clock (Pressure Only) BA928 Oregon Scientif C3166-1 831 I 4/28/2018 4/28/2016 4/5/2017 TH A#2080 HTC-1 HDE 2080 II 4/5/2016 Cables Mfr Cat Calibration Due Calibrated on Range 9kHz - 18GHz Florida RF 3/7/2017 Asset #1784 Ш 3/7/2016

Florida RF

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

9kHz - 18GHz



Asset #2051



AC Line Conducted Emissions

LIMITS

Frequency of emission (MHz)	Quasi-peak limit (dBµV)	Average limit (dBµV)
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, product is battery powered only.



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 kez Maximum allowable uncertainty Radiated Emissions (30-100MHz) NIST CISPR 8.68B N/A 5.08B (Ucippr) Radiated Emissions (1-28.06Hz) 4.68B N/A Radiated Emissions (1-28.06Hz) 4.98B N/A Magnetic Radiated Emissions 5.60B (N/A N/A Conducted Emissions (Principle) 3.94B (N/A) N/A Teloc Conducted Emissions (Current) 2.99B (N/A) N/A Teloc Conducted Emissions (Voltage) 4.6B (N/A) N/A Electrosatic Discharge 11.5% (N/A) N/A Electrosatic Discharge 11.5% (N/A) N/A Radiated RF Immunity (Uniform Field) 1.6dB (N/A) N/A Electrosatic Discharge 23.1% (N/A) N/A Electrical Fast Transients 23.1% (N/A) N/A Surge 23.1% (N/A) N/A Gonducted RF Immunity 12.8% (N/A) N/A Magnetic Immunity 12.8% (N/A) N/A Publication Immunity 12.8% (N/A) N/A Publication Immunity 12.8% (N/A) N/A			
NIST		Expanded Uncertainty k=2	Maximum allowable uncertainty
Radiated Emissions (1-26.5GHz) 4.6dB N/A Radiated Emissions (above 26.5GHz) 4.9dB N/A Magnetic Radiated Emissions NIST (CISIR STATE) 3.6dB N/A Conducted Emissions (CUrrent) 2.9dB N/A Teloc Conducted Emissions (Collage) 4.4dB N/A Radiated RF Immunity (Uniform Field) 1.8dB N/A Relectrical Fast Transients 2.31% N/A Surge 23.1% N/A Conducted RF Immunity 3.dB N/A Magnetic Immunity 12.8% N/A Magnetic Immunity 12.8% N/A A Harmonics 3.5% N/A Ficker 3.5% N/A Radio frequency (8 2.4GHz) 3.23 x 10 ⁴ 1 x 10 ⁷ RF power, conducted 0.40dB 0.75dB Maximum frequency devision:	NIST		
Radiated Emissions (above 26.5GHz) 4.9dB N/A Magnetic Radiated Emissions 5.6dB N/A Conducted Emissions NIST 3.9dB 3.0dB NIST 3.6dB N/A Teloc Conducted Emissions (Current) 2.9dB N/A Teloc Conducted Emissions (Voltage) 4.4dB N/A Talco Conducted Emissions (Voltage) 4.4dB N/A Radiated RF Immunity (Uniform Field) 1.6dB N/A Radiated RF Immunity (Uniform Field) 1.6dB N/A Surge 23.1% N/A Conducted RF Immunity 3.dB N/A Magnetic Immunity 12.8% N/A Magnetic Immunity 12.8% N/A Magnetic Immunity 12.8% N/A Market Picker 3.5% N/A All ammorics 3.5% N/A Floker 3.5% N/A Radioted expency (@ 2.4GHz) 3.2x x 10^4 1 x 10^7 R power, conducted 0.40dB 0.75dB Maximum frequency devisition: 3.4%<			
Magnetic Radiated Emissions S.6dB N/A	, , ,		
Conducted Emissions 3.94B 3.64B (Uspr)	, , , , , , , , , , , , , , , , , , ,		
NIST	-	5.6dB	N/A
Teloc 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 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 x 10 ³ 1x 10 ⁷ RF power, conducted 0.40dB 0.75dB Maximum frequency deviation: Within 30dHz and 6Mzz of audio frequency / Within 6Mzz 3.4% 5/8 Adjacent channel power 1.9dB 3dB Conducted spurious emission of transmitter, valid up to 12.75GHz 2.39dB 3dB Conducted emission of transmitter, valid up to 26.5GHz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.5Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 26.5GHz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Radiated emission of transmitter, valid up to 80.6Hz 3.3dB 6dB Ra	NIST		
Electrostatic Discharge	Telco Conducted Emissions (Current)	2.9dB	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) 323 x 10³ 1 x 10² RF power, conducted 0.40dB 0.75dB Maximum frequency deviation: • Within 300Hz and 6kHz of audio frequency / Within 6kHz • Within 300Hz and 6kHz of audio frequency / Within 6kHz • Within 300Hz and 6kHz of audio frequency / Within 6kHz • Adjacent channel power 3.4% • 3.4% • 3.4% • 3.4% • 3.4% • 3.4B Conducted spurious emission of transmitter, valid up to 10.2.75GHz • 2.39dB 3dB Conducted emission of transmitter, valid up to 26.5GHz • 3.9dB 3dB • 3dB Conducted emission of transmitter, valid up to 80GHz • 3.3dB 6dB Radiated emission of transmitter, valid up to 80GHz • 3.3dB 6dB • 6dB Radiated emission of receiver, valid up to 80GHz • 3.3dB 6dB • 6dB Radiated emission of receiver, valid up to 80GHz • 3.3dB 6dB • 6dB • 6dB Radiated emission of receiver, valid up to 80GHz • 3.3dB 6dB • 6d	Telco Conducted Emissions (Voltage)	4.4dB	N/A
Electrical Fast Transients 23.1% N/A	Electrostatic Discharge	11.5%	N/A
Surge	Radiated RF Immunity (Uniform Field)	1.6dB	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 x 10 ⁻⁸ 1 x 10 ⁻⁷ R Fpower, conducted 0.40dB 0.75dB Maximum frequency deviation:	Electrical Fast Transients	23.1%	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 x 10° 1 x 10° RF power, conducted 0.40dB 0.75dB Maximum frequency deviation: ** • Within 300Hz and 6kHz of audio frequency / Within 6kHz 3.4% 5% and 25kHz of audio frequency 0.3dB 3dB Conducted spurious emission of transmitter, valid up to 12.75GHz 2.39dB 3dB Conducted 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 80GHz 3.9dB 6dB Radiated emission of receiver, valid up to 80GHz 3.9dB 6dB Radiated emission of receiver, valid up to 80GHz 3.3dB 6dB Radiated emission of receiver, valid up to 80GHz 3.3dB 6dB Radiated emission of receiver, valid up to 80GHz 3.3dB 6dB Temperature 0.7°C	Surge	23.1%	N/A
Dips and Interrupts 2.3V	Conducted RF Immunity	3dB	N/A
Harmonics 3.5% N/A Flicker 3.5% N/A Radio frequency (@ 2.4GHz) 3.23 x 10 ⁻⁸ 1 x 10 ⁻⁷ RF power, conducted 0.40dB 0.75dB Maximum frequency deviation: ■ Within 300Hz and 6kHz of audio frequency / Within 6kHz 0.3dB 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 treceiver, valid up to 26.5GHz 3.9dB 6dB Radiated emission of receiver, valid up to 26.5GHz 3.9dB 6dB Radiated emission of receiver, valid up to 26.5GHz 3.9dB 6dB Radiated emission of receiver, valid up to 26.5GHz 3.9dB 6dB Radiated emission of receiver, valid up to 26.5GHz 3.9dB 6dB Radiated emission of receiver, valid up to 26.5GHz 3.9dB 6dB Radiated emission of receiver, valid up to 26.5GHz 3.9dB 6dB Radiated emission of receiver, valid up to 26.5GHz 3.9dB 6dB Radiated emission of receiver, valid up to 40.6Hz 3.3dB 6dB Radiated emission of receiver, valid up to 40.6Hz 3.3dB 6dB Radiated emission of receiver, valid up to 80GHz 3.3dB 6dB Back 1 1.3% 3.3% Voltage (AC, <10kHz) 1.3% 3% Voltage (AC, <10kHz) 1.3% 2%	Magnetic Immunity	12.8%	N/A
Flicker 3.5% N/A Radio frequency (@ 2.4GHz) 3.23 x 10 ⁻⁸ 1 x 10 ⁻⁷ RF power, conducted 0.40dB 0.75dB Maximum frequency deviation:	Dips and Interrupts	2.3V	N/A
Radio frequency (@ 2.4GHz) 3.23 x 10 ⁸ 1 x 10 ⁷ RF power, conducted 0.40dB 0.75dB Maximum frequency deviation:	Harmonics	3.5%	N/A
RF power, conducted 0.40dB 0.75dB Maximum frequency deviation:	Flicker	3.5%	N/A
Maximum frequency deviation: Within 300Hz and 6kHz of audio frequency / Within 6kHz and 25kHz of audio frequency 3.4% 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 Radiated emission of receiver, valid up to 80GHz 3.3dB 6dB 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)	Radio frequency (@ 2.4GHz)	3.23 x 10 ⁻⁸	1 x 10 ⁻⁷
• 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 80GHz 3.9dB 6dB Radiated emission of receiver, valid up to 80GHz 3.3dB 6dB Radiated emission of receiver, valid up to 80GHz 3.3dB 6dB 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)	RF power, conducted	0.40dB	0.75dB
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)	Within 300Hz and 6kHz of audio frequency / Within 6kHz		
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)			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)	Conducted spurious emission of transmitter, valid up to 12.75GHz	2.39dB	3dB
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)	Conducted emission of receivers	1.3dB	3dB
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)	Radiated emission of transmitter, 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)	Radiated emission of transmitter, 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)	Radiated emission of receiver, valid up to 26.5GHz	3.9dB	6dB
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%	Radiated emission of receiver, valid up to 80GHz	3.3dB	6dB
Time 4.1% 10% RF Power Density, Conducted 0.4dB 3dB DC and low frequency voltages 1.3% 3% Voltage (AC, <10kHz)	Humidity	2.37%	5%
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%	Temperature	0.7°C	1.0°C
DC and low frequency voltages 1.3% 3% Voltage (AC, <10kHz)	Time	4.1%	10%
Voltage (AC, <10kHz)	RF Power Density, Conducted	0.4dB	3dB
Voltage (DC) 0.62% 1%	DC and low frequency voltages	1.3%	3%
	Voltage (AC, <10kHz)	1.3%	2%
The above reflects a 95% confidence level	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 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.

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