Test Report



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

Report No	EQ1922-1
Client	Amazon Robotics LLC
Address	300 Riverpark Drive North Reading, MA 01864
Phone	(978) 276-2815
Items tested FCC ID IC ID	SRBRS Badge Module 2AEZR-SRBRSBADGE 10244A-SRBRSBADGE
FRN	0024656845
Equipment Type Equipment Code	Low Power Communication Device Transmitter DXX
Standards	CFR Title 47 FCC Part 15.249, RSS-210 Issue 9 Annex B.10
Test Dates	July 14 and 15, 2016
Results	As detailed within this report
Prepared by	Tuyen Truong – EMC Test Engineer
Authorized by	Hunus Fazilogiu - Sr. EMC Engineer
Issue Date	10/25/2016
Conditions of Issue	This Test Report is issued subject to the conditions stated in the ' <i>Conditions of Testing</i> ' section on page 13 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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page 1 of 14

Contents

Contents	2
Product Tested - Configuration Documentation	3
Summary and Test Methodology	
Compliance Statement	5
Modifications Required for Compliance	
Test Results	6
Fundamental Measurements	6
Radiated Spurious Emissions	7
Occupied Bandwidth	10
Measurement Uncertainty	12
Conditions Of Testing	

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



Product Tested - Configuration Documentation

EUT Configuration														
Work O	rder:	Q1922												
Com	pany:	Amazo	n Robotics I	LC										
Company Ad	dress:	300 Riv	300 Riverpark Drive											
		North I	North Reading, MA, 01864											
Co	ntact:	Dao Ke	Dao Keopadith											
			MN PN SN											
	EUT:		SRBRS	Badge Module		6	00-00928			Product	ion 1			
EUT Descri	ption:	SRBRS	S Badge Moo	lule										
EUT TX Frequ	ency:	925 MI	Hz											
EUT TX Frequ	ency:	0.125 N	0.125 MHz											
Support Equipment				MI	N				SN					
Laptop Lenovo				Thinkpac	1 W520				2144	2				
Cerberus, Vest and Cal	ble			610-0	1026									
Assembly (Host)														
									1					
Port Label	Port	Туре	# ports	# populated	cable ty	pe shielded	ferrites	length (m)	in/out	under test	comment			
RJ45	other		1	1	other	Yes	No	1.5	in	yes				
USB maintenance	USB		1	1	USB	Yes	No	3	in	no	only used to			
port cable											configure the EUT			
Software Operating N														
EUT was set to transm														
Normal mode: -10dBr														
Maximum transmit pov	wer is 10	0dBm. Fi	rmware vers	ion V1.21-261C	E42.									



Reason for change Original Release Date Issued

October 25, 2016

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page 3 of $1\overline{4}$

Summary and Test Methodology

On July 14-15, 2016 we tested the SRBRS Badge Module for compliance with the following requirements:

CFR Title 47 FCC Part 15.249, RSS-210 Issue 9 Annex B.10

EUT transmits at 925MHz. Emissions were maximized by rotating the device around 3 orthogonal planes. EUT has an integral antenna.

Radiated emission testing was performed according to the procedures specified in ANSI C63.10-2013 and RSS-Gen Issue 4.

AC mains conducted emission testing was not required because the EUT is battery powered.

EUT operating voltage is 15VDC.

The following bandwidths were used during radiated spurious emissions testing.

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

We found that the product met the above limits. The test sample was received in good condition.





Compliance Statement

RSS-GEN	RSP-100	RSS 210	Part 15	Comments
6.3			15.15(b)	There are no controls accessible to the user that
0.0				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 an internal surface- mount antenna with 1.4dBi 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 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.

Modifications Required for Compliance

None.





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

	14-Jul-16		Company	Amazon Dol	hotics LLC	<u>`</u>					Work Order	· 01922
	Jason Haley											
Temp:	,		Humidity:		age modul		1005mBar			rating von	age/Trequency	
Temp.		ncy Range:				ricooure.	recombai			ent Distar	 0m	
Nataa		, ,						N			ea: 925MHz	
Notes:	EUT power set	tings are - 100	and IUd	В					E	UIMAXFI	eq: 9251VIHZ	
			Ì						FCC 15.249/RSS-210			ISS-210
Antenna	_		Preamp	Antenna	Cable	Adjusted						
Polarization	Frequency	Reading	Factor	Factor	Factor (dB)	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V) V eut at -10	(MHz) 925.0	(dBµV) 76.2	(dB) 25.8	(dB/m) 22.5	(dB) 2.1	(dBµV/m) 75.0	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/r 94.0	n) (dB) -19.0	(Pass/Fail) Pass
Heut at -10	925.0 925.0	78.2	25.8	22.5	2.1	75.0				94.0	-19.0	Pass
Veutat 10	925.0 925.0	76.2 84.4	25.8	22.5	2.1	83.2				94.0	-17.0	Pass
Heutat 10	925.0 925.0	88.2	25.8	22.5	2.1	87.0				94.0	-10.8	Pass
						07.0					1	•
Tab	le Result:	Pass	by	-7.0 0	dB					Vorst Fre	eq: 925.0) MHz
				-							•	
Test Site:	EMI Chamber	1	Cable 1:	Asset #1784	4			Cable 2: A	sset #205	51	Cable 3	
Analyzer:	MXE 2093		Preamp:		4			Cable 2: A Antenna: F			Cable 3 Preselector	
Analyzer: Ssoft Radiate	MXE 2093 ed Emissions Ca	lculator v	Preamp: 1.017.165	Green							Preselector	
Analyzer: Ssoft Radiate djusted Readi	MXE 2093	lculator v	Preamp: 1.017.165	Green		tor					Preselector	
Analyzer: Ssoft Radiate ljusted Readi w. 7/4/2016	MXE 2093 ed Emissions Ca ing = Reading -	Iculator v Preamp Fac	Preamp: 1.017.165 tor + Antenr	Green na Factor + 0	Cable Fac		M4-	Antenna: F	ed-Brown		Preselector Copyrigh	t Curtis-Straus LLC
Analyzer: Ssoft Radiate ljusted Readi w. 7/4/2016	MXE 2093 ed Emissions Ca	Ilculator v Preamp Fac eceivers /Pro	Preamp: 1.017.165 tor + Antenr	Green na Factor + (Ra		or MN N9038A	Mfr Agilent				Preselector	t Curtis-Straus LLC
Analyzer: Ssoft Radiate ljusted Readi w. 7/4/2016	MXE 2093 ed Emissions Ca ing = Reading - n Analyzers / R	lculator v Preamp Fac eceivers /Pro Receiver	Preamp: 1.017.165 tor + Antenr	Green na Factor + 0 Ra 20Hz-	Cable Fac	MN		Antenna: F SN	Asset	Cat Ca	Preselector Copyrigh	t Curtis-Straus LLC Calibrated of 7/21/2015
Analyzer: Ssoft Radiate djusted Readi ev. 7/4/2016	MXE 2093 ad Emissions Ca ing = Reading - n Analyzers / R MXE EMI	Iculator v Preamp Fac eceivers /Pro Receiver issions Sites	Preamp: 1.017.165 tor + Antenr	Green na Factor + (Ra 20Hz- FCC	Cable Fac ange 26.5GHz	MN N9038A	Agilent	Antenna: F SN MY51210181	Asset	Cat Ca	Preselector Copyrigh Ilibration Due 7/21/2016	t Curtis-Straus LLC
Analyzer: Ssoft Radiate Ijjusted Readi Vv. 7/4/2016 Spectrum	MXE 2093 ad Emissions Ca ing = Reading - n Analyzers / R MXE EMI Radiated Emi	Iculator v Preamp Faci eceivers /Pre Receiver issions Sites mber 1	Preamp: 1.017.165 tor + Antenn eselectors	Green na Factor + C Ra 20Hz- FCC 71	Cable Fac ange 26.5GHz C Code	MN N9038A IC Code	Agilent VCCI Code	Antenna: F SN MY51210181 Range	Asset	Cat Ca I Cat Ca II	Preselector Copyrigh Ilibration Due 7/21/2016 Ilibration Due	t Curtis-Straus LLC Calibrated o 7/21/2015 Calibrated o
Analyzer: Ssoft Radiate Ijusted Readi v. 7/4/2016 Spectrum	MXE 2093 ed Emissions Ca ing = Reading - n Analyzers / R MXE EMI Radiated Emi EMI Cha	Iculator v Preamp Fact eceivers /Pro Receiver issions Sites imber 1 Attenuators /	Preamp: 1.017.165 tor + Antenn eselectors	Green na Factor + (Ra 20Hz- FCC 71 Ra	Cable Fac ange 26.5GHz C Code 19150 ange	MN N9038A IC Code 2762A-6	Agilent VCCI Code A-0015	SN MY51210181 Range 30-1000MHz	Asset 2093	Cat Ca I Cat Ca II	Preselector Copyright Ilibration Due 7/21/2016 Ilibration Due 3/21/2017	Calibrated of 7/21/2015
Analyzer: Ssoft Radiate Ijusted Readi v. 7/4/2016 Spectrum	MXE 2093 ad Emissions Ca ing = Reading - n Analyzers / R MXE EMI Radiated Emi EMI Cha mps /Couplers A	Iculator v Preamp Fac eceivers /Pro Receiver issions Sites imber 1 Attenuators / en	Preamp: 1.017.165 tor + Antenn eselectors	Green na Factor + C Ra 20Hz- FCC 71 Ra 0.009-	Cable Fac ange 26.5GHz C Code 19150 ange	MN N9038A IC Code 2762A-6 MN	Agilent VCCI Code A-0015 Mfr	Antenna: F SN MY51210181 Range 30-1000MHz SN	Asset 2093	Cat Cat I Cat Ca II Cat Ca II	Preselector Copyright dibration Due 7/21/2016 dibration Due 3/21/2017 dibration Due	Calibrated c 7/21/2015 Calibrated c 3/21/2015 Calibrated c 3/21/2015
Analyzer: Ssoft Radiate Ijjusted Readi Vv. 7/4/2016 Spectrum	MXE 2093 ed Emissions Ca ing = Reading - n Analyzers / R MXE EMI Radiated Emi EMI Cha mps /Couplers / Gre	Iculator v Preamp Fact eceivers /Pre Receiver issions Sites imber 1 Attenuators / en	Preamp: 1.017.165 tor + Antenn eselectors	Green na Factor + C Ri 20Hz- FCC 71 Ri 0.009- Ri	Cable Fac ange 26.5GHz C Code 19150 ange 2000MHz	MN N9038A IC Code 2762A-6 MN ZFL-1000-LN	Agilent VCCI Code A-0015 Mfr CS	Antenna: F SN MY51210181 Range 30-1000MHz SN N/A	Asset 2093 Asset 802	Cat Cat I Cat Ca II Cat Ca II	Preselector Copyright Ilibration Due 7/21/2016 Ilibration Due 9/17/2016	Calibrated of 7/21/2015 Calibrated of 3/21/2015 Calibrated of 9/17/2015
Analyzer: Ssoft Radiate Jjusted Readi v. 7/4/2016 Spectrum Pream	MXE 2093 of Emissions Ca ing = Reading - n Analyzers / R MXE EMI Radiated Emi EMI Cha mps /Couplers / Gree Anter Red-Brov Meteorologi	Iculator v Preamp Fac eceivers /Pro Receiver issions Sites imber 1 Attenuators / en mas vn Bilog cal Meters	Preamp: 1.017.165 for + Antenn eselectors Filters	Green na Factor + C Ri 20Hz- FCC 71 Ri 0.009- Ri	Cable Fac ange 26.5GHz C Code 19150 ange 2000MHz ange	MN N9038A IC Code 2762A-6 MN ZFL-1000-LN MN	Agilent VCCI Code A-0015 Mfr CS Mfr	Antenna: F SN MY51210181 Range 30-1000MHz SN N/A SN	Asset 2093 Asset 802 Asset	Cat	Preselector Copyright dibration Due 7/21/2016 dibration Due 3/21/2017 dibration Due 9/17/2016 dibration Due	Calibrated of 7/21/2015 Calibrated of 7/21/2015 Calibrated of 3/21/2015 Calibrated of 9/17/2015 Calibrated of 2/17/2015
Analyzer: soft Radiate justed Readi v. 7/4/2016 Spectrun Pream	MXE 2093 ad Emissions Ca ing = Reading - n Analyzers / R MXE EMI Radiated Emi EMI Cha mps /Couplers / Gree Anter Red-Brow Meteorologi Weather Clock (I	Iculator v Preamp Fact eceivers /Pro Receiver issions Sites imber 1 Attenuators / en anas vn Bilog cal Meters Pressure Only	Preamp: 1.017.165 for + Antenn eselectors Filters	Green na Factor + C Ri 20Hz- FCC 71 Ri 0.009- Ri	Cable Fac ange 26.5GHz C Code 19150 ange 2000MHz ange	MN N9038A IC Code 2762A-6 MN ZFL-1000-LN JB1 JB1 BA928	Agilent VCCI Code A-0015 Mfr CS Mfr Sunol Mfr Oregon Scientific	Antenna: F SN MY51210181 Range 30-1000MHz SN N/A SN A0032406	Asset 2093 Asset 802 Asset 1218 Asset 831	Cat	Preselector Copyright dibration Due 7/21/2016 dibration Due 9/17/2016 dibration Due 12/4/2016 dibration Due 4/28/2018	Calibrated of 7/21/2015 Calibrated of 3/21/2015 Calibrated of 3/21/2015 Calibrated of 9/17/2015 Calibrated of 12/4/2014 Calibrated of 12/4/2014
Analyzer: soft Radiate justed Readi v. 7/4/2016 Spectrun Pream	MXE 2093 ed Emissions Ca ing = Reading - n Analyzers / R MXE EMI Radiated Emi EMI Cha mps /Couplers / Grev Anter Red-Brov Meteorologi	Iculator v Preamp Fact eceivers /Pro Receiver issions Sites imber 1 Attenuators / en anas vn Bilog cal Meters Pressure Only	Preamp: 1.017.165 for + Antenn eselectors Filters	Green na Factor + C Ri 20Hz- FCC 71 Ri 0.009- Ri	Cable Fac ange 26.5GHz C Code 19150 ange 2000MHz ange	MN N9038A IC Code 2762A-6 MN ZFL-1000-LN JB1 MN	Agilent VCCI Code A-0015 Mfr CS Mfr Sunol Mfr	Antenna: F SN MY51210181 Range 30-1000MHz SN N/A SN A0032406 SN	Asset 2093 Asset 802 Asset 1218 Asset	Cat	Preselector Copyright Ilibration Due 7/21/2016 Ilibration Due 9/17/2016 Ilibration Due 12/4/2016 Ilibration Due	Calibrated 7/21/2015 Calibrated 3/21/2015 Calibrated 9/17/2015 Calibrated 12/4/2014 Calibrated
Analyzer: soft Radiate justed Readi v. 7/4/2016 Spectrun Pream	MXE 2093 ed Emissions Ca ing = Reading - n Analyzers / R MXE EMI Radiated Emi EMI Cha EMI Cha Grev Anter Red-Brov Meteorologi Weather Clock (I TH A#	Iculator v Preamp Fac eceivers /Pro Receiver issions Sites imber 1 Attenuators / en mas vn Bilog ical Meters Pressure Only 2080 les	Preamp: 1.017.165 for + Antenn eselectors Filters	Green na Factor + (20Hz- 71 FCC 71 Ra 0.009- Ra 30-20	Cable Face ange 26.5GHz 2 Code 19150 ange 2000MHz ange 000MHz	MN N9038A IC Code 2762A-6 MN ZFL-1000-LN JB1 JB1 BA928	Agilent VCCI Code A-0015 Mfr CS Mfr Sunol Mfr Oregon Scientific HDE Mfr	Antenna: F SN MY51210181 Range 30-1000MHz SN N/A SN A0032406 SN	Asset 2093 Asset 802 Asset 1218 Asset 831	Cat Cat I Cat Cat II Cat Cat I Cat Cat I Cat Cat I Cat Cat Cat Cat Cat Cat	Preselector Copyrig: libration Due 7/21/2016 libration Due 9/17/2016 libration Due 12/4/2016 libration Due 4/28/2018 4/5/2017 libration Due	Calibrated 7/21/2015 Calibrated 3/21/2015 Calibrated 9/17/2015 Calibrated 12/4/2014 Calibrated 4/28/2016 4/5/2016 Calibrated
Analyzer: Ssoft Radiate Ijusted Readi v. 7/4/2016 Spectrum Pream	MXE 2093 d Emissions Ca ing = Reading - n Analyzers / R MXE EMI Radiated Emi EMI Cha mps /Couplers / Grev Anter Red-Brov Meteorologi Weather Clock (I TH A#	Iculator v Preamp Fact eceivers /Pre Receiver issions Sites imber 1 Attenuators / en anas vn Bilog cal Meters Pressure Only 2080 les #1784	Preamp: 1.017.165 for + Antenn eselectors Filters	Green na Factor + (Ra 20H2- FCC 71 Ra 0.009- Ra 30-20 Ra 9kHz	Cable Fac ange 26.5GHz C Code 19150 ange 2000MHz ange 000MHz	MN N9038A IC Code 2762A-6 MN ZFL-1000-LN JB1 JB1 BA928	Agilent VCCI Code A-0015 Mfr CS Mfr Sunol Mfr Oregon Scientific HDE	Antenna: F SN MY51210181 Range 30-1000MHz SN N/A SN A0032406 SN	Asset 2093 Asset 802 Asset 1218 Asset 831	Cat Cat I Cat Cat II Cat Cat II Cat Cat I Cat Cat II	Preselector Copyrig: Ilibration Due 7/21/2016 Ilibration Due 9/17/2016 Ilibration Due 12/4/2016 Ilibration Due 4/28/2018 4/5/2017	Calibrated 7/21/2015 Calibrated 3/21/2015 Calibrated 9/17/2015 Calibrated 12/4/2014 Calibrated 4/28/2016 4/5/2016

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





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

Date:	14-Jul-16		Company:	Amazon R	obotics LL	0				v	Vork Order:	Q1922		
Engineer:	Jason Haley		EUT Desc:	SRBRS Ba	adge Modu	le			EUT Opera	ting Voltage	Frequency:	15VDC Battery		
Temp:	22°C		Humidity:	36%		Pressure	1005mB							
	Freque	ency Range:	30-1000MH	łz					Measureme	nt Distance:	3m			
Notes:	Quasi-peak re	adings							EU	T Max Freq:	925MHz			
	EUT transmitin	g in normal r	node		-									
					<u>.</u>					F	C 15.209/RSS-GEN			
Antenna Polarization	Frequency	Reading	Preamp Factor	Antenna Factor	Cable Factor	Adjusted Reading	Limit	Margin	Result	Limit	Margin	Result		
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)		
/ eut at -10	31.357	29.6	25.5	20.4	0.4	24.9	(dDµV/III)	(00)	(1 433/1 41)	40.0	-15.1	Pass		
Heut at -10	79.96	45.1	25.5	7.7	0.4	27.9				40.0	-12.1	Pass		
Veut at -10	80.044	45.3	25.5	7.7	0.6	28.1				40.0	-11.9	Pass		
Heut at -10	80.474	41.8	25.5	7.7	0.6	24.6				40.0	-15.4	Pass		
Veut at -10	82.238	42.5	25.5	7.6	0.6	25.2				40.0	-14.8	Pass		
eut at -10	86.574	34.0	25.5	7.5	0.6	16.6				40.0	-23.4	Pass		
/ eut at -10	161.523	30.4	25.5	12.2	1.0	18.1				43.5	-25.4	Pass		
eut at -10	161.956	31.6	25.5	12.2	1.0	19.3				43.5	-24.2	Pass		
l eut at -10	221.968	37.1	25.7	10.8	1.1	23.3				46.0	-22.7	Pass		
eut at -10	226.995	47.8	25.7	11.0	1.2	34.3				46.0	-11.7	Pass		
eut at -10	633.934	31.0	25.7	19.8	1.2	27.1				46.0	-18.9	Pass		
eut at -10	902.0	35.0	25.5	22.5	2.1	33.8				46.0	-12.2	Pass		
	902.0	25.9	25.8	22.5	2.1	24.7				46.0	-12.2	Pass		
l eut at -10 / eut at -10	902.0 928.0	25.9 35.2	25.8	22.5	2.1	24.7 34.0				46.0 46.0	-21.3	Pass		
				-							-			
l eut at -10	928.0	25.8	25.8	22.5	2.1	24.6				46.0	-21.4	Pass		
Veut at 10	30.127	29.7	25.5	21.3	0.4	25.9				40.0	-14.1	Pass		
Veut at 10	79.975	43.6	25.5	7.7	0.6	26.4				40.0	-13.6	Pass		
veut at 10	81.771	41.0	25.5	7.6	0.6	23.7				40.0	-16.3	Pass		
Veut at 10	222.109	47.9	25.7	10.8	1.1	34.1				46.0	-11.9	Pass		
V eut at 10	226.901	48.3	25.7	11.0	1.2	34.8				46.0	-11.2	Pass		
V eut at 10	231.274	48.0	25.7	11.2	1.2	34.7				46.0	-11.3	Pass		
H eut at 10	74.148	33.4	25.5	8.2	0.6	16.7				40.0	-23.3	Pass		
H eut at 10	80.062	42.1	25.5	7.7	0.6	24.9				40.0	-15.1	Pass		
H eut at 10	85.73	32.8	25.5	7.5	0.6	15.4				40.0	-24.6	Pass		
Heut at 10	207.491	38.0	25.7	10.7	1.0	24.0				43.5	-19.5	Pass		
Heut at 10	226.986	41.3	25.7	11.0	1.2	27.8				46.0	-18.2	Pass		
Veut at 10	902.0	35.6	25.8	22.5	2.1	34.4				46.0	-11.6	Pass		
Heut at 10	902.0	30.6	25.8	22.5	2.1	29.4				46.0	-16.6	Pass		
V eut at 10	928.0	29.4	25.8	22.5	2.1	28.2				46.0	-17.8	Pass		
l eut at 10	928.0	29.6	25.8	22.5	2.1	28.4				46.0	-17.6	Pass		
Heut at 10	846.684	30.4	25.7	21.8	2.1	28.6				46.0	-17.4	Pass		
Tab	le Result:	Pass	by	-11.2	dB				W	orst Freq:	226.9	MHz		
Test Site:	EMI Chamber	1	Cable 1:	Asset #178	34			Cable 2:	Asset #2051		Cable 3:			
Analyzer:	MXE 2093		Preamp:	Green				Antenna:	Red-Brown		Preselector:			





Rev. 7/4/2016

Range	MN	Mfr	SN	Asset 2093	Cat	Calibration Due	Calibrated on
20Hz-26.5GHz	N9038A	Agilent	MY51210181		I	7/21/2016	7/21/2015
FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
719150	2762A-6	A-0015	30-1000MHz		II	3/21/2017	3/21/2015
Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
0.009-2000MHz	ZFL-1000-LN	CS	N/A	802	II	9/17/2016	9/17/2015
Range	MN	Mfr	SN	Asset	Cat	Calibration Due 12/4/2016	Calibrated on
30-2000MHz	JB1	Sunol	A0032406	1218	I		12/4/2014
	MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2080	Cat I	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016
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
	20Hz-26.5GHz FCC Code 719150 Range 0.009-2000MHz Range 30-2000MHz 840 9kHz - 18GHz	20Hz-26.5GHz N9038A FCC Code 719150 IC Code 2762A-6 Range 0.009-2000MHz MN ZFL-1000-LN Range 30-2000MHz MN JB1 MN 8A928 HTC-1 Range 9kHz - 18GHz	20Hz-26.5GHz N9038A Agilent FCC Code 719150 IC Code 2762A-6 VCCI Code A-0015 Range 0.009-2000MHz MN ZFL-1000-LN Mfr Sunol Range 30-2000MHz MN JB1 Mfr Sunol MN BA928 HTC-1 Oregon Scientific HDE Range 9kHz - 18GHz Mfr Florida RF	20Hz-26.5GHz N9038A Agilent MY51210181 FCC Code 719150 IC Code 2762A-6 VCCI Code A-0015 Range 30-1000MHz Range 0.009-2000MHz MN ZFL-1000-LN Mfr CS SN N/A Range 30-2000MHz MN JB1 Mfr Sunol SN A0032406 MN BA928 HTC-1 Mfr Oregon Scientific HDE SN C3166-1 HDE Range 9kHz - 18GHz Mfr Florida RF	20Hz-26.5GHz N9038A Agilent MY51210181 2093 FCC Code 719150 IC Code 2762A-6 VCCI Code A-0015 Range 30-1000MHz Range 802 Range 0.009-2000MHz MN ZFL-1000-LN Mfr CS SN N/A Asset 802 Range 30-2000MHz MN JB1 Mfr Sunol SN A0032406 Asset 1218 MN BA928 HTC-1 Oregon Scientific HDE SN C3166-1 Asset 831 2080 Range 9kHz - 18GHz Mfr Florida RF SN Asset 831	20Hz-26.5GHz N9038A Agilent MY51210181 2093 I FCC Code 719150 IC Code 2762A-6 VCCI Code A-0015 Range 30-1000MHz Cat II Range 0.009-2000MHz MN ZFL-1000-LN Mfr CS SN N/A Asset 802 Cat II Range 0.009-2000MHz MN ZFL-1000-LN Mfr Sunol SN A0032406 Asset 1218 Cat II Bange 30-2000MHz MN JB1 Mfr Sunol SN A0032406 Asset 1218 Cat I MN BA928 HTC-1 Mfr Oregon Scientific HDE SN C3166-1 Asset 831 Cat I Range 9kHz - 18GHz Mfr Florida RF SN Florida RF Cat II	20Hz-26.5GHz N9038A Agilent MY51210181 2093 I 7/21/2016 FCC Code 719150 IC Code 2762A-6 VCCI Code A-0015 Range 30-1000MHz Cat II Calibration Due 3/21/2017 Range 0.009-2000MHz MN ZFL-1000-LN Mfr SE SN N/A Asset 802 Cat II Calibration Due 3/21/2017 Range 0.009-2000MHz MN JB1 Mfr Sunol SN A0032406 Asset 1218 Cat II Calibration Due 9/17/2016 MN BA928 HTC-1 Mfr Oregon Scientific HDE SN C3166-1 Asset 831 Cat II Calibration Due 12/4/2018 MN BA928 Oregon Scientific HDE SN C3166-1 Asset 831 Cat II Calibration Due 4/28/2018 9kHz - 18GHz Florida RF Cat II Calibration Due 3/7/2017 S/7/2017

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

Preamp

Factor

(dB)

17.4

17.2 17.6 17.4

by

Prea

Cable 1:

mp:

a Factor + Cable Factor

Average

Reading

(dBuV)

13.4

13.2

13.6 13.5

Pass

v 1.017.165

Antenna

Factor

(dB/m)

35.8

36.0

36.1 36.8

-22.1 dB

sset #205⁻

Asset #1517

Cable

Factor

(dB)

7.4 7.7

8.4

8.5

Peak

Reading

(dBµV)

22.3

21.4

22.5

23.9

ading = Reading - Preamp Factor + Anten

Frequency

(MHz)

6475.0

7400.0

8325.0

9250.0

soft Radiated Emissions Calculator

Table Result:

Test Site: EMI Chamber

alyzer: MXE 2093

Date:	14-Jul-16			Company:	Amazon R	obotics Ll	LC					V	Vork Order:	Q1922	
Engineer:	Jason Haley			EUT Desc:	SRBRS Ba	adge Mod	ule		EUT Operating Voltage/Frequency: 15VDC Batte						
Temp:	22°C			Humidity:	36%			Pressure: 1005mB							
	Frequency Range: 1-6GHz										Measureme	nt Distance:	3m		
Notes: Noise Floor Readings EUT transmiting in normal mode at level 10.								EUT Max Freq: 925MHz							
Antenna		Peak	Average	Preamp	Antenna	Cable	Adjusted	Adjusted	FCC 15.209	High Frequ	ency - Peak	FCC 15.209	High Frequ	ency - Average	
Polarization	Frequency	Reading	Reading	Factor	Factor	Factor	Peak Reading	Avg Reading	Limit	Margin	Result	Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)	
Horizontal	1850.0	26.0	16.6	18.8	30.8	3.2	41.2	31.8	74.0	-32.8	Pass	54.0	-22.2	Pass	
Horizontal	2775.0	28.5	18.4	20.1	33.0	4.5	45.9	35.8	74.0	-28.1	Pass	54.0	-18.2	Pass	
Horizontal	3700.0	25.0	16.9	19.1	33.4	5.5	44.8	36.7	74.0	-29.2	Pass	54.0	-17.3	Pass	
Horizontal	4625.0 5550.0	25.1 25.2	15.7 15.1	17.9 17.6	34.3 34.9	6.0 6.8	47.5 49.3	38.1 39.2	74.0 74.0	-26.5 -24.7	Pass Pass	54.0 54.0	-15.9 -14.8	Pass Pass	
Horizontal		23.2		17.0			49.3	39.2	74.0	-24.7					
Tab	le Result:		Pass	by	-14.8	dB					W	orst Freq:	5550.0	MHz	
Test Site:	EMI Chamber	1		Cable 1:	Asset #178	34				Cable 2:	Asset #2051		Cable 3:		
	Rental SA#5			Preamp:	Asset #15	17				Antenna:	Blue Horn		Preselector:		
	d Emissions Ca		v 1.017.165										Copyright (Curtis-Straus LLC	
2	ng = Reading -			na Factor +	Cable Fact	olr									
	15-Jul-16			Company:	Amozon D	obotion I I	C					W	/ork Order:	01000	
	Jason Haley			EUT Desc:								-			
Temp:	,			Humidity:		luge mou	ule	EUT Operating Voltage/Frequency: 15VDC Battery Pressure: 1002mB							
remp.	22.0	Freque	ency Range:		30 %			Flessule.	10021118		Measureme	nt Distance:	1m		
		Treque	ency nange.	0-100112								T Max Freq:			

Adjusted

Peak Reading

(dBµV/m

48.1

47.9

49.4

51.8

Adjusted

Avg Reading

(dBuV/m)

39.2

39.7

40.5 41.4 Limit

dBuV/m

83.5

83.5

83.5

83.5

Margin

(dB)

-35.4

-35.6

-34.1

-31.7

Result

(Pass/Fail

Pass

Pass

Pass

Pass

Cable 2: Asset #1784 Antenna: Blue Horn Limit

dBuV/m

63.5

63.5

63.5

63.5

Worst Freq:

Margin

(dB)

-24.3

-23.8

-23.0

-22.1

Preselector:

9250.0 MHz

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Cable 3:

Result

(Pass/Fail)

Pass

Pass

Pass

Pass



Antenna

Polarization

(H / V)

Vert

Vert

Vert

Vert



Rev. 7/4/2016								
Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
MXE EMI Receiver	20Hz-26.5GHz	N9038A	Agilent	MY51210181	2093	T	7/21/2016	7/21/2015
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		T	5/23/2017	5/23/2015
Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
1517 HF Preamp	1-20GHz	CS	CS	N/A	1517	Ш	8/6/2016	8/6/2015
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Blue Horn	1-18Ghz	3117	ETS	157647	1861	I	2/8/2017	2/8/2015
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	1	4/28/2018	4/28/2016
TH A#2080		HTC-1	HDE		2080	Ш	4/5/2017	4/5/2016
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #1784	9kHz - 18GHz		Florida RF			Ш	3/7/2017	3/7/2016
Asset #2051	9kHz - 18GHz		Florida RF			Ш	3/2/2017	3/2/2016

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

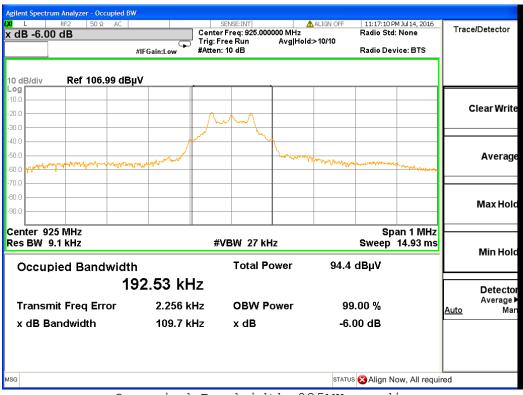




Occupied Bandwidth

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 6.6]



Occupied Bandwidth 925MHz radio





ilent Spectrum Analyzer - Occupie					
L RF2 50 Ω <u>A</u> DO pan 10.000 kHz PREAMP	Cent Trig	sense:INT ter Freq: 125.000 kHz : Free Run Avg H en: 6 dB	Radio old:>10/10	5:59 AM Oct 12, 2016 5 Std: None 5 Device: BTS	Trace/Detector
0 dB/div Ref 86.99 di	ΒμV				
0.0					Clear Writ
					Averag
0.0					Max Hol
enter 125 kHz Res BW 200 Hz		#VBW 1 kHz		Span 10 kHz Sweep FFT	Min Hol
Occupied Bandwi	^{dth} 5.041 kHz	Total Power	80.5 dBµ'	v	Detecto
Transmit Freq Error	595 Hz	OBW Power	99.00 %	6	Average <u>Auto</u> Ma
x dB Bandwidth	1.646 kHz	x dB	-6.00 dl		
G				ign Now, All require	ed

Occupied Bandwidth 125kHz radio





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)	E CAD	NI/A
NIST CISPR	5.6dB 4.6dB	N/A 5.2dB (Ucispr)
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 CISPR	3.9dB 3.6dB	N/A 3.6dB (Ucispr)
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 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 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		



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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





page 13 of $1\overline{4}$

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



