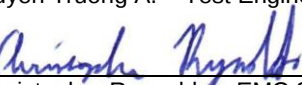




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Test Report

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

Report No	EN3397-1
Client	Fitlinxx Technologies John MacLean
Address	3 Enterprise Drive Suite 401 Shelton, CT 06484
Phone	(978) 357-8086
Items tested	Pebble+
FCC ID	O9DA
IC ID	4068A-A
FRN	0004307153
Equipment Type	Low Power Communication Device Transmitter
Equipment Code	DXX
Standards	47CFR 15.249, RSS 210 Issue 8, RSS GEN Issue 3
Test Dates	April 1 – 3, 14 and 15, 2014
Results	As detailed within this report
Prepared by	 Tuyen Truong A. – Test Engineer
Authorized by	 Christopher Reynolds – EMC Supervisor
Issue Date	6/23/2014
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 18 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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Product Tested - Configuration Documentation

EUT Configuration										
Work Order: N3397 Company: Fitlinxx Technologies Company Address: 134 Flanders Road Westborough, MA 01581 Contact: Dave Goodall Person Present: Dave Goodall										
					MN		SN			
EUT: Body LAN Configuration Bluetooth Configuration Sleep Mode Config					Pebble+ Pebble+ Pebble+		HGEN-00512-12297 HGWT-00512-12235 HGVH-00512-10156			
EUT Description: Pebble+ EUT Max Frequency: 16 MHz EUT TX Frequency: 2402 - 2480MHz										
Support Equipment:					MN		SN			
None										
EUT Ports:										
Port Label	Port Type	No. of ports	No. Populated	Cable Type	Shielded	Ferrites	Length	Max Length	In/Out NEBS Type	Unpopulated Reason
None										
Software / Operating Mode Description:										
1) For Body LAN configuration: EUT is set to transmit at 2429MHz, 2) For Bluetooth configuration: EUT is set to transmit at 2402MHz, 2426MHz and 2480MHz simultaneously. 3) For Body LAN / Bluetooth configuration tested in Sleep mode: EUT is set to transmit for 8ms, then go into silent mode until it detects movement again.										

Issue No.	Reason for change	Date Issued
1	Original Release	June 23, 2014



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Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.249. The product is Pebble+. It is a transmitter that operates on a single channel 2429MHz for Body LAN configuration and operates in the range 2402 - 2480MHz for Bluetooth configuration.

We found that the product met the above requirements. The test samples were received in good condition.

Test Methodology

Radiated emission testing was performed according to the procedures specified in ANSI C63.4 (2003) and RSS-GEN. Radiated Emissions were maximized by rotating the device around three orthogonal axes as well as varying the test antenna's height and polarity. The device antenna cannot be maximized separately.

AC Main conducted emission was not done because the EUT is battery powered.

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

The EUT operating voltage is 3VDC. (Fresh batteries were used during testing.)

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

Issue No.	Reason for change	Date Issued
1	Original Release	June 23, 2014



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Compliance Statement

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

RSS-GEN	RSS 210	Part 15	Comments
5.4		15.15(b)	There are no controls accessible to the users that vary the output power.
5.2		15.19	The label is shown in the label exhibit.
7.1.3		15.21	Information to the user is shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
7.1.2		15.203	The antenna for this device is hardwired to the PCB.
7.2.4		15.207	EUT is Battery powered
	A2.9(a)	15.249(a)	The fundamental frequencies and harmonics meet the limits in 15.249(a)
	A2.9(b)	15.249(d)	Spurious emissions meet the limits in 15.209.
4.6.1			99% emissions bandwidth plot is provided.



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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

Adjusted Peak Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor
Average readings were taken with 30Hz VBW

Field Strength of Fundamental – Body LAN mode

Radiated Emissions Table														
Date: 01-Apr-14			Company: Fitlinxx Technologies						Work Order: N3397					
Engineer: Tuyen Truong / Ryan Brown			EUT Desc: Pebble+						EUT Operating Voltage/Frequency: 3Vdc					
Temp: 24°C			Humidity: 2%						Pressure: 1001mBar					
Frequency Range: 2429 MHz									Measurement Distance: 3 m					
Notes: Body LAN mode - (S/N: HGEN-00512-12297) - all EUT orientations were investigated.									EUT Max Freq: 16MHz					
									TX Freq: 2429MHz					
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	47CFR 15.249 High Frequency - Peak			47CFR 15.249 High Frequency - Average		
									Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
x-orientation	0.0			---	---	---	---							
	2429.0	79.3	75.8	22.4	28.2	4.0	89.1	85.6	113.9	-24.8	Pass	93.9	-8.3	Pass
	h	2429.0	66.72	63.4	22.4	28.2	4.0	76.5	73.2	113.9	-37.4	Pass	93.9	-20.7
y-orientation				---	---	---	---							
	2429.0	74.18	61.3	22.4	28.2	4.0	84.0	71.1	113.9	-29.9	Pass	93.9	-22.8	Pass
	h	2429.0	77.25	63.7	22.4	28.2	4.0	87.1	73.5	113.9	-26.8	Pass	93.9	-20.4
z-orientation				---	---	---	---							
	2429.0	70.87	66.7	22.4	28.2	4.0	80.7	76.5	113.9	-33.2	Pass	93.9	-17.4	Pass
	h	2429.0	78.92	75.2	22.4	28.2	4.0	88.7	85.0	113.9	-25.2	Pass	93.9	-8.9
Table Result:		Pass		by		-8.3 dB		Worst Freq: 2429.0 MHz						
Test Site: EMI Chamber 2			Cable 1: Asset #1506			Cable 2: Asset #1786			Cable 3: ---					
Analyzer: Asset #1328			Preamp: Asset #1517			Antenna: Yellow Horn			Preselector: ---					

Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
SA EMI Chamber (1328)	9kHz-13.2 GHz	E4405B	Agilent	MY44210241	1328	I	1/13/2015	1/13/2014
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
EMI Chamber 2	719150	2762A-7	A-0015	>1GHz		I	5/16/2015	5/16/2013
Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
1517 HF Preamp	1-20GHz	CS	CS	N/A	1517	II	9/11/2014	9/11/2013
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Yellow Horn	1-18GHz	3115	EMCO	9608-4898	37	I	7/19/2014	7/19/2013
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Temp./Humidity/Atm. Pressure Gauge		7400 Perception	Davis	N/A	965	I	5/29/2014	5/29/2013
TH A#1833		35519-044	Control Company	130318278	1833	II	6/13/2015	6/13/2013
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #1506	9kHz - 18GHz		Florida RF			II	3/7/2015	3/7/2014
Asset #1786	9kHz - 18GHz		Florida RF			II	3/15/2015	3/15/2014

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



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Field Strength of Harmonics – Body LAN mode

Radiated Emissions Table																			
Date: 01-Apr-14					Company: Fitlinxx Technologies					Work Order: N3397									
Engineer: Tuyen Truong / Ryan Brown					EUT Desc: Pebble+					EUT Operating Voltage/Frequency: 3Vdc									
Temp: 24°C					Humidity: 2%					Pressure: 1001mBar									
Frequency Range: Harmonics of 2429MHz - 1-6GHz										Measurement Distance: 3 m									
Notes: Body LAN mode - (S/N: HGEN-00512-12297) - all EUT orientations were investigated.										EUT Max Freq: 16MHz TX Freq: 2429MHz									
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	47CFR 15.249 High Frequency - Peak			47CFR 15.249 High Frequency - Average							
									Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)					
v	4858.0	34.26	23.2	20.8	33.0	5.8	52.3	41.2	74.0	-21.7	Pass	54.0	-12.8	Pass					
h	4858.0	33.51	23.1	20.8	33.0	5.8	51.5	41.1	74.0	-22.5	Pass	54.0	-12.9	Pass					
Table Result:		Pass		by		-12.8 dB		Worst Freq: 4858.0 MHz											
Test Site: EMI Chamber 2					Cable 1: Asset #1506					Cable 2: Asset #1786					Cable 3: ---				
Analyzer: Asset #1328					Preamp: Asset #1517					Antenna: Yellow Horn					Preselector: ---				

Radiated Emissions Table														
Date: 01-Apr-14			Company: Fitlinxx Technologies						Work Order: N3397					
Engineer: Tuyen Truong / Ryan Brown			EUT Desc: Pebble+						EUT Operating Voltage/Frequency: 3Vdc					
Temp: 24°C			Humidity: 2%						Pressure: 1001mBar					
Frequency Range: Harmonics of 2429MHz - 6-18GHz									Measurement Distance: 1 m					
Notes: Body LAN mode - (S/N: HGEN-00512-12297) - all EUT orientations were investigated.									EUT Max Freq: 16MHz TX Freq: 2429MHz					
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	47CFR 15.249 High Frequency - Peak			47CFR 15.249 High Frequency - Average		
									Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
v	9716.0	42.28	36.6	19.4	38.4	7.8	69.1	63.4	83.5	-14.4	Pass	63.5	-0.1	Pass
h	9716.0	38.35	28.5	19.4	38.4	7.8	65.2	55.3	83.5	-18.3	Pass	63.5	-8.2	Pass
Table Result:		Pass		by		-0.1 dB		Worst Freq:		9716.0 MHz				
Test Site: EMI Chamber 2			Cable 1: Asset #1506			Cable 2: Asset #1786			Cable 3: ---					
Analyzer: Asset #1328 and Brown			Preamp: Asset #1517			Antenna: Yellow Horn			Preselector: ---					

Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
SA EMI Chamber (1328)	9kHz-13.2 GHz	E4405B	Agilent	MY44210241	1328	I	1/13/2015	1/13/2014
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
EMI Chamber 2	719150	2762A-7	A-0015	>1GHz		I	5/16/2015	5/16/2013
Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
1517 HF Preamp	1-20GHz	CS	CS	N/A	1517	II	9/11/2014	9/11/2013
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Yellow Horn	1-18GHz	3115	EMCO	9608-4898	37	I	7/19/2014	7/19/2013
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Temp./Humidity/Atm. Pressure Gauge		7400 Perception	Davis	N/A	965	I	5/29/2014	5/29/2013
TH A#1833		35519-044	Control Company	130318278	1833	II	6/13/2015	6/13/2013
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #1506	9kHz - 18GHz		Florida RF			II	3/7/2015	3/7/2014
Asset #1786	9kHz - 18GHz		Florida RF			II	3/15/2015	3/15/2014

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

Radiated Emissions Table															
Date: 01-Apr-14			Company: Fitlinxx Technologies						Work Order: N3397						
Engineer: Tuyen Truong / Ryan Brown			EUT Desc: Pebble+						EUT Operating Voltage/Frequency: 3Vdc						
Temp: 24°C			Humidity: 2%			Pressure: 1001mBar									
Frequency Range: 18-26.5GHz									Measurement Distance: 0.1 m						
Notes: Body LAN mode - (S/N: HGEN-00512-12297) - all EUT orientations were investigated.									EUT Max Freq: 16MHz						
									TX Freq: 2429MHz						
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBµV/m)	---			FCC Class B					
							Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)			
No emissions found in this range															
Test Site: EMI Chamber 2			Cable 1: EMIR-HIGH-22			Cable 2: ---			Cable 3: ---						
Analyzer: Rental SA#1			Preamp: 18-26.5GHz			Antenna: 18-26.5GHz Horn			Preselector: ---						



Spectrum Analyzers / Receivers / Preselectors Brown (1328)	Range 9kHz-26.5GHz	MN E4407B	Mfr Agilent	SN SG44210511	Asset 1510	Cat I	Calibration Due 4/18/2014	Calibrated on 4/18/2013
Radiated Emissions Sites EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range >1GHz		Cat I	Calibration Due 5/16/2015	Calibrated on 5/16/2013
Preamps / Couplers Attenuators / Filters HF (Yellow)	Range 18-26.5GHz	MN AFS4-18002650-80-8P-4	Mfr CS	SN 467559	Asset 1266	Cat I	Calibration Due 3/30/2015	Calibrated on 3/30/2014
Antennas HF (White) Horn	Range 18-26.5GHz	MN 801-WLM	Mfr Waveline	SN 758	Asset 758	Cat I	Calibration Due Verify before Use	Calibrated on date of test
Meteorological Meters Temp./Humidity/Atm. Pressure Gauge TH A#1833		MN 7400 Perception II 35519-044	Mfr Davis Control Company	SN N/A 130318278	Asset 965 1833	Cat I II	Calibration Due 5/29/2014 6/13/2015	Calibrated on 5/29/2013 6/13/2013
Cables REMI-High-22	Range 9kHz - 18GHz		Mfr C-S			Cat II	Calibration Due 2/12/2015	Calibrated on 2/12/2014

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

Field Strength of Fundamental – Bluetooth mode

Radiated Emissions Table														
Date: 01-Apr-14				Company: Fitlinxx Technologies				Work Order: N3397						
Engineer: Tuyen Truong / Ryan Brown				EUT Desc: Pebble+				EUT Operating Voltage/Frequency: 3Vdc						
Temp: 24°C				Humidity: 2%				Pressure: 1001mBar						
Frequency Range: Fundamental Frequencies										Measurement Distance: 3 m				
Notes: Bluetooth mode - (S/N: HGWT-00512-12235) - all EUT orientations were investigated.										EUT Max Freq: 16MHz				
										TX Freq: 2400-2483.5MHz				
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBμV)	Average Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBμV/m)	Adjusted Avg Reading (dBμV/m)	47CFR 15.249 High Frequency - Peak			47CFR 15.249 High Frequency - Average		
									Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)
v	2402.0	79.32	60.3	22.3	28.1	4.0	89.1	70.1	113.9	-24.8	Pass	93.9	-23.8	Pass
h	2402.0	72.72	55.8	22.3	28.1	4.0	82.5	65.6	113.9	-31.4	Pass	93.9	-28.3	Pass
v	2426.0	77.65	58.2	22.4	28.2	4.0	87.5	68.0	113.9	-26.4	Pass	93.9	-25.9	Pass
h	2426.0	64.54	53.3	22.4	28.2	4.0	74.3	63.1	113.9	-39.6	Pass	93.9	-30.8	Pass
v	2480.0	74.71	56.5	22.7	28.3	4.0	84.3	66.1	113.9	-29.6	Pass	93.9	-27.8	Pass
h	2480.0	68.38	53.9	22.7	28.3	4.0	78.0	63.5	113.9	-35.9	Pass	93.9	-30.4	Pass
Table Result:				Pass by -23.8 dB				Worst Freq:				2402.0 MHz		
Test Site: EMI Chamber 2				Cable 1: Asset #1506				Cable 2: Asset #1786				Cable 3: ---		
Analyzer: Asset #1328				Preamp: Asset #1517				Antenna: Yellow Horn				Preselector: ---		

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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 1/13/2015	Calibrated on 1/13/2014
Radiated Emissions Sites EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range >1GHz		Cat I	Calibration Due 5/16/2015	Calibrated on 5/16/2013
Preamps / Couplers Attenuators / Filters 1517 HF Preamp	Range 1-20GHz	MN CS	Mfr CS	SN N/A	Asset 1517	Cat II	Calibration Due 9/11/2014	Calibrated on 9/11/2013
Antennas Yellow Horn	Range 1-18GHz	MN 3115	Mfr EMCO	SN 9608-4898	Asset 37	Cat I	Calibration Due 7/19/2014	Calibrated on 7/19/2013
Meteorological Meters Temp./Humidity/Atm. Pressure Gauge TH A#1833		MN 7400 Perception II 35519-044	Mfr Davis Control Company	SN N/A 130318278	Asset 965 1833	Cat I II	Calibration Due 5/29/2014 6/13/2015	Calibrated on 5/29/2013 6/13/2013
Cables Asset #1506 Asset #1786	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II II	Calibration Due 3/7/2015 3/15/2015	Calibrated on 3/7/2014 3/15/2014

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

Field Strength of Harmonics – Bluetooth mode

Radiated Emissions Table																			
Date: 03-Apr-14 Engineer: Tuyen Truong Temp: 21.5°C					Company: Fitlinxx Technologies EUT Desc: Pebble+ Humidity: 21% Pressure: 1010mBar					Work Order: N3397 EUT Operating Voltage/Frequency: 3Vdc									
Frequency Range: 1-6GHz										Measurement Distance: 3 m									
Notes: Bluetooth mode - (S/N: HGWT-00512-12235) - all EUT orientations were investigated.										EUT Max Freq: 16 MHz									
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBμV)	Average Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBμV/m)	Adjusted Avg Reading (dBμV/m)	47CFR 15.249 High Frequency - Peak			47CFR 15.249 High Frequency - Average							
									Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)					
v	4804.0	33.0	21.4	20.7	33.1	5.1	50.5	38.9	74.0	-23.5	Pass	54.0	-15.1	Pass					
v	4852.0	33.87	21.5	20.8	33.2	5.2	51.5	39.1	74.0	-22.5	Pass	54.0	-14.9	Pass					
v	4960.0	32.34	26.0	20.7	33.4	5.4	50.4	44.1	74.0	-23.6	Pass	54.0	-9.9	Pass					
Table Result:					Pass by -9.9 dB					Worst Freq: 4960.0 MHz									
Test Site: 1DCC-OATS-3M-I					Cable 1: EMIR-HIGH-22					Cable 2: ---					Cable 3: ---				
Analyzer: Rental SA#1					Preamp: Asset #1517					Antenna: Black Horn					Preselector: ---				



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Radiated Emissions Table

Date: 03-Apr-14		Company: Fitlinxx Technologies					Work Order: N3397								
Engineer: Tuyen Truong		EUT Desc: Pebble+					EUT Operating Voltage/Frequency: 3Vdc								
Temp: 21.5°C		Humidity: 21%					Pressure: 1010mBar								
Frequency Range: 6-18GHz							Measurement Distance: 1 m								
Notes: Bluetooth mode - (S/N: HGWT-00512-12235) - all EUT orientations were investigated.							EUT Max Freq: 16 MHz								
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	47CFR 15.249 High Frequency - Peak			47CFR 15.249 High Frequency - Average			
									Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	
v	9704.0	35.14	24.8	19.3	38.7	8.0	62.5	52.2	83.5	-21.0	Pass	63.5	-11.3	Pass	
Table Result:		Pass		by		-11.3 dB				Worst Freq:		9704.0 MHz			
Test Site: 1DCC-OATS-3M-I				Cable 1: EMIR-HIGH-22				Cable 2: ---				Cable 3: ---			
Analyzer: Rental SA#1				Preamp: Asset #1517				Antenna: Black Horn				Preselector: ---			

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Spectrum Analyzers / Receivers / Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Brown (1328)		9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	4/18/2014	4/18/2013
Radiated Emissions Sites		FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
1DCC-OATS-3M-I		719150	2762A-8	A-0015	30-1000MHz		II	5/17/2015	5/17/2013
Preamps / Couplers Attenuators / Filters		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
1517 HF Preamp		1-20GHz	CS	CS	N/A	1517	II	9/11/2014	9/11/2013
Antennas		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Black Horn		1-18GHz	3115	EMCO	9703-5148	56	I	8/5/2015	8/5/2013
Meteorological Meters			MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Temp./Humidity/Atm. Pressure Gauge			7400 Perception I	Davis	N/A	965	I	5/29/2014	5/29/2013
TH A#1834			35519-044	Control Company	130320004	1834	II	6/13/2015	6/13/2013
Cables		Range		Mfr			Cat	Calibration Due	Calibrated on
REMI-High-22		9kHz - 18GHz		C-S			II	2/12/2015	2/12/2014

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

Radiated Emissions Table

Date: 03-Apr-14		Company: Fitlinxx Technologies				Work Order: N3397									
Engineer: Tuyen Truong		EUT Desc: Pebble+				EUT Operating Voltage/Frequency: 3Vdc									
Temp: 21.5°C		Humidity: 21%				Pressure: 1010mBar									
Frequency Range: 18-26.5GHz						Measurement Distance: 0.1 m									
Notes: Bluetooth mode - (S/N: HGWT-00512-12235) - all EUT orientations were investigated.						EUT Max Freq: 16 MHz									
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	47CFR 15.249 High Frequency - Peak			47CFR 15.249 High Frequency - Average			
									Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	
No emissions found in this range															
Test Site: 1DCC-OATS-3M-I				Cable 1: EMIR-HIGH-22				Cable 2: ---				Cable 3: ---			
Analyzer: Rental SA#1				Preamp: 18-26.5GHz				Antenna: 18-26.5GHz Horn				Preselector: ---			

Rev. 3/15/2014

Spectrum Analyzers / Receivers / Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Brown (1328)		9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	4/18/2014	4/18/2013
Radiated Emissions Sites		FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
1DCC-OATS-3M-I		719150	2762A-8	A-0015	30-1000MHz		II	5/17/2015	5/17/2013
Preamps / Couplers Attenuators / Filters		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
HF (Yellow)		18-26.5GHz	4-18002650-604	CS	467559	1266	I	3/30/2015	3/30/2014
Antennas		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
HF (White) Horn		18-26.5GHz	801-WLM	Waveline	758	758	I	Verify before Use	date of test
Meteorological Meters			MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Temp./Humidity/Atm. Pressure Gauge			7400 Perception I	Davis	N/A	965	I	5/29/2014	5/29/2013
TH A#1834			35519-044	Control Company	1.3E+08	1834	II	6/13/2015	6/13/2013
Cables		Range		Mfr			Cat	Calibration Due	Calibrated on
REMI-High-22		9kHz - 18GHz		C-S			II	2/12/2015	2/12/2014

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

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

Radiated Spurious - Body LAN mode

Radiated Emissions Table												
Date: 01-Apr-14			Company: Fitlinxx Technologies						Work Order: N3397			
Engineer: Tuyen Truong / Ryan Brown			EUT Desc: Pebble+						EUT Operating Voltage/Frequency: 3Vdc			
Temp: 24°C			Humidity: 2%			Pressure: 1001mBar						
Frequency Range: 25-1000MHz							Measurement Distance: 3 m					
Notes: Body LAN mode - (S/N: HGEN-00512-12297) - all EUT orientations were investigated.							EUT Max Freq: 16MHz					
							TX Freq: 2429MHz					
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBμV/m)	---			FCC Class B		
							Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)
v, peak	44.6	37.2	22.5	10.5	0.5	25.7	---	---	---	40.0	-14.3	Pass
v, peak	125.0	28.9	22.5	14.2	0.9	21.5	---	---	---	43.5	-22.0	Pass
v, peak	161.0	32.5	22.6	12.1	1.0	23.0	---	---	---	43.5	-20.5	Pass
h, peak	240.0	26.9	22.5	11.8	1.1	17.3	---	---	---	46.0	-28.7	Pass
v, peak	466.5	30.5	22.3	17.3	1.6	27.1	---	---	---	46.0	-18.9	Pass
v, peak	616.9	28.4	22.7	19.1	1.7	26.5	---	---	---	46.0	-19.5	Pass
v, peak	847.2	28.1	21.6	21.8	2.2	30.5	---	---	---	46.0	-15.5	Pass
Table Result: Pass by -14.3 dB							Worst Freq: 44.6 MHz					
Test Site: EMI Chamber 2			Cable 1: Asset #1506			Cable 2: Asset #1786			Cable 3: ---			
Analyzer: Asset #1328			Preamp: Blue			Antenna: Red-Black			Preselector: ---			

Note: No emissions found from 1 to 25 GHz other than the Harmonics (see Fundamental Measurements section)

Rev. 3/15/2014

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 1/13/2015	Calibrated on 1/13/2014
Radiated Emissions Sites EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range >1GHz		Cat I	Calibration Due 5/16/2015	Calibrated on 5/16/2013
Preamps / Couplers Attenuators / Filters Blue	Range 0.009-2000MHz	MN ZFL-1000-LN	Mfr CS	SN N/A	Asset 759	Cat II	Calibration Due 5/31/2014	Calibrated on 5/31/2013
Antennas Red-Black Bilog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A091604-2	Asset 1106	Cat I	Calibration Due 1/28/2015	Calibrated on 1/28/2013
Meteorological Meters Temp./Humidity/Atm. Pressure Gauge TH A#1833		MN 7400 Perception II 35519-044	Mfr Davis Control Company	SN N/A 130318278	Asset 965 1833	Cat I II	Calibration Due 5/29/2014 6/13/2015	Calibrated on 5/29/2013 6/13/2013
Cables Asset #1506 Asset #1786	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II II	Calibration Due 3/7/2015 3/15/2015	Calibrated on 3/7/2014 3/15/2014

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



Band Edge – Body LAN mode

Radiated Emissions Table

Date: 01-Apr-14		Company: Fitlinxx Technologies				Work Order: N3397								
Engineer: Tuyen Truong / Ryan Brown		EUT Desc: Pebble+				EUT Operating Voltage/Frequency: 3Vdc								
Temp: 24°C		Humidity: 2%				Pressure: 1001mBar								
Frequency Range: Band Edge - 2.4GHz and 2.4835GHz						Measurement Distance: 3 m								
Notes: Body LAN mode - (S/N: HGEN-00512-12297) - all EUT orientations were investigated.						EUT Max Freq: 16MHz								
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBμV)	Average Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBμV/m)	Adjusted Avg Reading (dBμV/m)	FCC 15.209 High Frequency - Peak			FCC 15.209 High Frequency - Average		
									Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)
v	2400.0	36.26	27.1	22.3	28.1	4.0	46.1	36.9	74.0	-27.9	Pass	54.0	-17.1	Pass
v	2483.5	36.11	27.1	22.7	28.3	4.0	45.7	36.7	74.0	-28.3	Pass	54.0	-17.3	Pass
Table Result:		Pass		by		-17.1 dB				Worst Freq:		2400.0 MHz		
Test Site: EMI Chamber 2		Cable 1: Asset #1506		Cable 2: Asset #1786		Cable 3: ---								
Analyzer: Rental SA#1		Preamp: Asset #1517		Antenna: Yellow Horn		Preselector: ---								

Rev. 3/15/2014

Spectrum Analyzers / Receivers / Preselectors Brown (1328)	Range 9kHz-26.5GHz	MN E4407B	Mfr Agilent	SN SG44210511	Asset 1510	Cat I	Calibration Due 4/18/2014	Calibrated on 4/18/2013
Radiated Emissions Sites EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range >1GHz		Cat I	Calibration Due 5/16/2015	Calibrated on 5/16/2013
Preamps / Couplers / Attenuators / Filters 1517 HF Preamp	Range 1-20GHz	MN CS	Mfr CS	SN N/A	Asset 1517	Cat II	Calibration Due 9/11/2014	Calibrated on 9/11/2013
Antennas Yellow Horn	Range 1-18GHz	MN 3115	Mfr EMCO	SN 9608-4898	Asset 37	Cat I	Calibration Due 7/19/2014	Calibrated on 7/19/2013
Meteorological Meters Temp./Humidity/Atm. Pressure Gauge TH A#1833		MN 7400 Perception II 35519-044	Mfr Davis Control Company	SN N/A 130318278	Asset 965 1833	Cat I II	Calibration Due 5/29/2014 6/13/2015	Calibrated on 5/29/2013 6/13/2013
Cables Asset #1506 Asset #1786	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II II	Calibration Due 3/7/2015 3/15/2015	Calibrated on 3/7/2014 3/15/2014

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

Radiated Spurious - Bluetooth mode

Radiated Emissions Table

Date: 14-Apr-14				Company: Fitlinxx Technologies				Work Order: N3397					
Engineer: Tuyen Truong				EUT Desc: Pebble+				EUT Operating Voltage/Frequency: 3Vdc					
Temp: 24°C				Humidity: 28%				Pressure: 1006mBar					
Frequency Range: 25 to 1000MHz								Measurement Distance: 3 m					
Notes: Bluetooth mode - (S/N: HGWT-00512-12235) - all EUT orientations were investigated.								EUT Max Freq: 16MHz					
								EUT TX Frequencies: 2400-2483.5MHz					
							---			FCC Class B			
Antenna Polarization (H/V)	Frequency (MHz)	Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	
v, peak	47.0	33.4	25.3	10.1	0.6	18.8	---	---	---	40.0	-21.2	Pass	
v, peak	76.1	39.8	25.3	8.6	0.7	23.8	---	---	---	40.0	-16.2	Pass	
v, peak	100.3	42.5	25.3	10.5	0.8	28.5	---	---	---	43.5	-15.0	Pass	
v, peak	119.7	31.8	25.3	14.1	1.0	21.6	---	---	---	43.5	-21.9	Pass	
h, peak	175.5	33.4	24.3	11.8	1.2	22.1	---	---	---	43.5	-21.4	Pass	
v, peak	177.9	33.4	24.2	11.7	1.1	22.0	---	---	---	43.5	-21.5	Pass	
v, peak	590.2	28.4	25.4	19.2	2.0	24.2	---	---	---	46.0	-21.8	Pass	
Table Result: Pass				by -15.0 dB				Worst Freq: 100.3 MHz					
Test Site: EMI Chamber 1				Cable 1: Asset #1505				Cable 2: Asset #1507				Cable 3: ---	
Analyzer: Asset #1327				Preamp: Blue-Blk				Antenna: Red-White				Preselector: ---	

Note: No emissions found from 1 to 25 GHz other than the Harmonics (see Fundamental Measurements section)



Rev. 4/13/2014

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 5/30/2014	Calibrated on 5/30/2013
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015	Range >1GHz		Cat I	Calibration Due 5/17/2015	Calibrated on 5/17/2013
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 11/19/2014	Calibrated on 11/19/2013
Antennas Red-White Bilog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A091604-1	Asset 1105	Cat I	Calibration Due 7/24/2015	Calibrated on 7/24/2013
Meteorological Meters Temp./Humidity/Atm. Pressure Gauge TH A#1832		MN 7400 Perception 35519-044	Mfr Davis Control Company	SN N/A 130318277	Asset 965 1832	Cat I II	Calibration Due 5/29/2014 6/13/2015	Calibrated on 5/29/2013 6/13/2013
Cables Asset #1505 Asset #1507	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II II	Calibration Due 3/7/2015 2/23/2015	Calibrated on 3/7/2014 2/23/2014

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

Radiated Emissions Table - Sleep Mode

Date: 11-Dec-13			Company: Fitlinxx Technologies			Work Order: N3397							
Engineer: Tuyen Truong			EUT Desc: Pebble+			EUT Operating Voltage/Frequency: 3Vdc							
Temp: 23°C			Humidity: 8%			Pressure: 1010mBar							
Frequency Range: 30 to 25000MHz						Measurement Distance: 3 m							
Notes: Body LAN / Bluetooth Configuration - Sleep Mode						EUT Max Freq: 16 MHz							
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBμV/m)	---			FCC 15.209			
							Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	
No emission found in this range													
Table Result: Pass				by	dB		Worst Freq:			MHz			
Test Site: EMI Chamber 1				Cable 1: Asset #1781			Cable 2: Asset #1785			Cable 3: ---			
Analyzer: Asset #1327				Preamp: Red			Antenna: Red-White			Preselector: ---			

Rev. 6/22/2014

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 4/29/2015	Calibrated on 4/29/2014
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015	Range >1GHz		Cat I	Calibration Due 5/17/2015	Calibrated on 5/17/2013
Preamps /Couplers Attenuators / Filters Red	Range 0.009-2000MHz	MN ZFL-1000-LN	Mfr CS	SN N/A	Asset 798	Cat II	Calibration Due 2/4/2015	Calibrated on 2/4/2014
Antennas Red-White Bilog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A091604-1	Asset 1105	Cat I	Calibration Due 7/24/2015	Calibrated on 7/24/2013
Meteorological Meters Weather Clock (Pressure Only) TH A#1832		MN BA928 35519-044	Mfr Oregon Scientific Control Company	SN C3166-1 130318277	Asset 831 1832	Cat I II	Calibration Due 3/19/2016 6/13/2015	Calibrated on 3/19/2014 6/13/2013
Cables Asset #1781 Asset #1785	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II II	Calibration Due 3/9/2015 3/15/2015	Calibrated on 3/9/2014 3/15/2014

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



Band Edge – Bluetooth mode

Radiated Emissions Table

Date: 01-Apr-14		Company: Fitlinxx Technologies				Work Order: N3397								
Engineer: Tuyen Truong / Ryan Brown		EUT Desc: Pebble+				EUT Operating Voltage/Frequency: 3Vdc								
Temp: 24°C		Humidity: 2%				Pressure: 1001mBar								
Frequency Range: Band Edge - 2.4GHz and 2.4835GHz						Measurement Distance: 3 m								
Notes: Bluetooth mode - (S/N: HGWT-00512-12235) - all EUT orientations were investigated.						EUT Max Freq: 16MHz								
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBμV)	Average Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBμV/m)	Adjusted Avg Reading (dBμV/m)	FCC 15.209 High Frequency - Peak			FCC 15.209 High Frequency - Average		
									Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)
v	2400.0	63.66	27.9	22.3	28.1	4.0	73.5	37.7	74.0	-0.5	Pass	54.0	-16.3	Pass
v	2395.0	45.5	25.8	22.3	28.1	4.0	55.3	35.6	74.0	-18.7	Pass	54.0	-18.4	Pass
v	2483.5	40.62	26.6	22.7	28.3	4.0	50.2	36.2	74.0	-23.8	Pass	54.0	-17.8	Pass
v	2487.5	37.18	25.7	22.7	28.4	4.0	46.9	35.4	74.0	-27.1	Pass	54.0	-18.6	Pass
Table Result:		Pass		by		-0.5 dB		Worst Freq:		2400.0 MHz				
Test Site: EMI Chamber 2		Cable 1: Asset #1506		Cable 2: Asset #1786		Cable 3: ---								
Analyzer: Asset #1328		Preamp: Asset #1517		Antenna: Yellow Horn		Preselector: ---								

Rev. 3/15/2014

Spectrum Analyzers / Receivers / Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
SA EMI Chamber (1328)		9kHz-13.2 GHz	E4405B	Agilent	MY44210241	1328	I	1/13/2015	1/13/2014
Radiated Emissions Sites		FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
EMI Chamber 2		719150	2762A-7	A-0015	>1GHz		I	5/16/2015	5/16/2013
Preamps / Couplers Attenuators / Filters		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
1517 HF Preamp		1-20GHz	CS	CS	N/A	1517	II	9/11/2014	9/11/2013
Antennas		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Yellow Horn		1-18GHz	3115	EMCO	9608-4898	37	I	7/19/2014	7/19/2013
Meteorological Meters			MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Temp./Humidity/Atm. Pressure Gauge			7400 Perceptio	Davis	N/A	965	I	5/29/2014	5/29/2013
TH A#1833			35519-044 Control Company		130318278	1833	II	6/13/2015	6/13/2013
Cables		Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #1506		9kHz - 18GHz		Florida RF			II	3/7/2015	3/7/2014
Asset #1786		9kHz - 18GHz		Florida RF			II	3/15/2015	3/15/2014

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



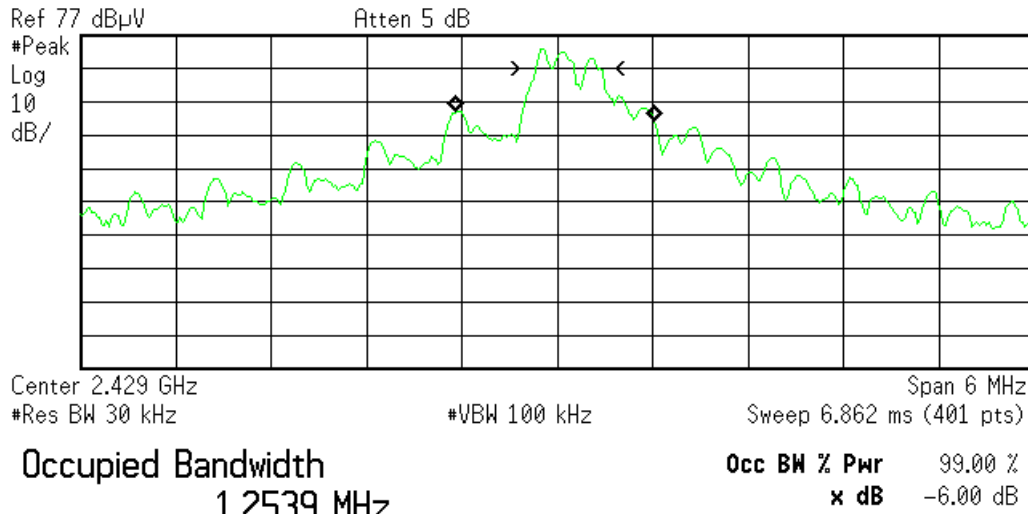
Occupied Bandwidth

REQUIREMENT

When an occupied bandwidth is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 4.6.1]

Agilent 09:28:47 Apr 15, 2014

R T



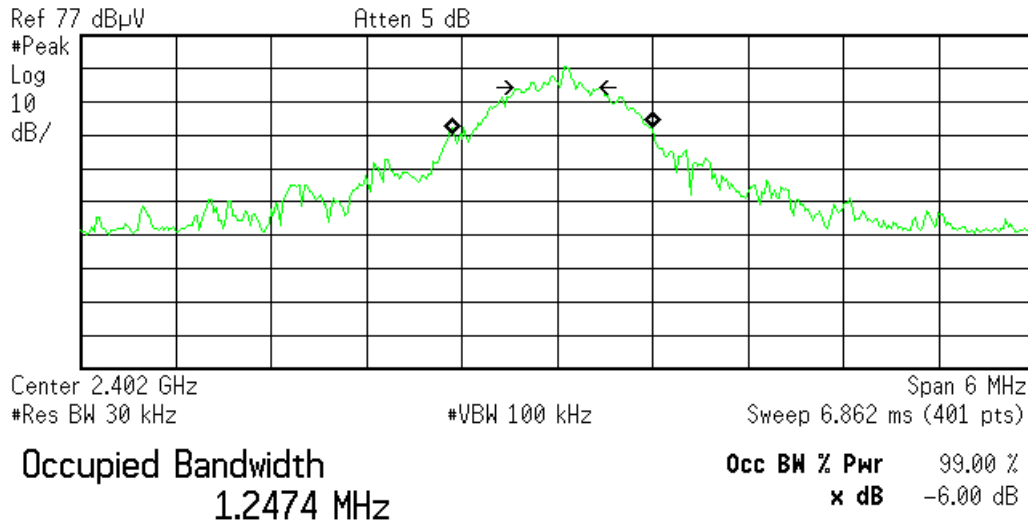
Transmit Freq Error -12.100 kHz
x dB Bandwidth 407.157 kHz

C:\temp.gif file saved

Occupied Bandwidth - Body LAN configuration

Agilent 09:07:45 Apr 15, 2014

R T

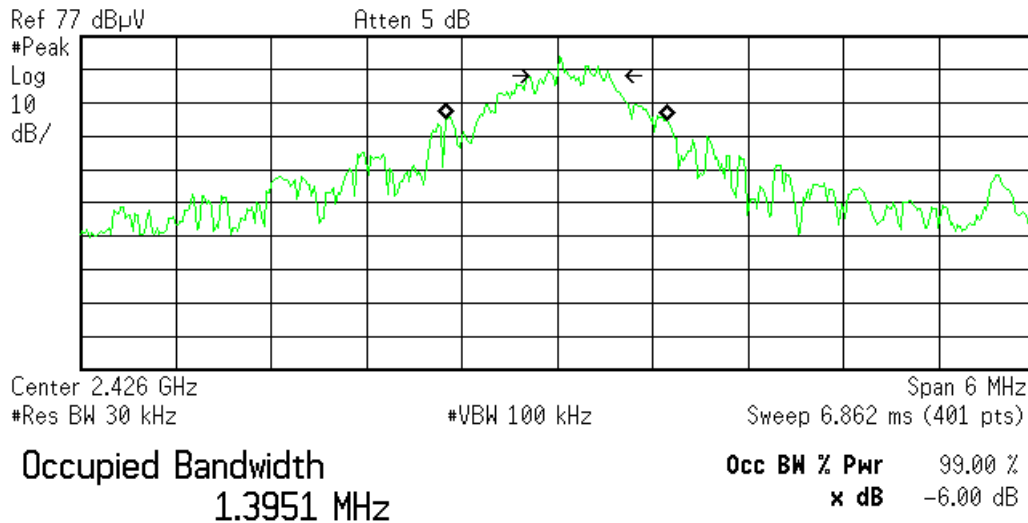


Transmit Freq Error -29.888 kHz
x dB Bandwidth 344.858 kHz

Occupied Bandwidth - Low Channel - Bluetooth configuration

Agilent 09:12:59 Apr 15, 2014

R T



Transmit Freq Error -6.425 kHz
x dB Bandwidth 406.678 kHz

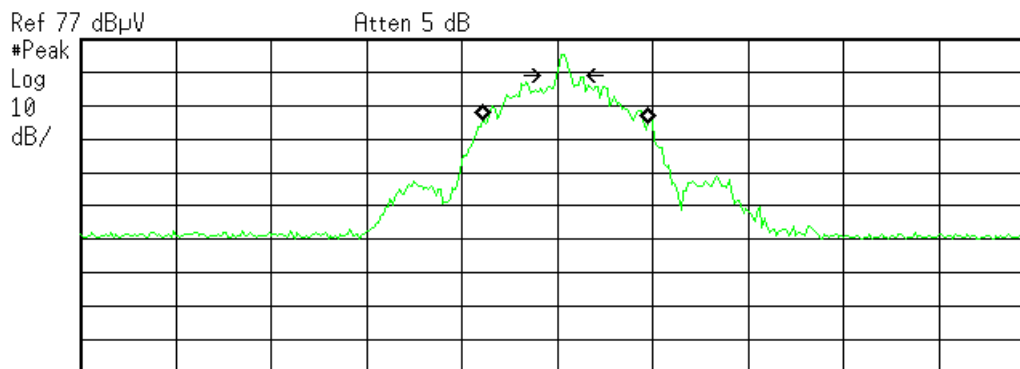
C:\temp.gif file saved

Occupied Bandwidth - Mid Channel - Bluetooth configuration



Agilent 09:19:26 Apr 15, 2014

R T



Center 2.48 GHz Span 6 MHz
#Res BW 30 kHz #VBW 100 kHz Sweep 6.862 ms (401 pts)

Occupied Bandwidth
1.0245 MHz

Occ BW % Pwr 99.00 %
x dB -6.00 dB

Transmit Freq Error 54.259 kHz
x dB Bandwidth 87.689 kHz

C:\temp.gif file saved

Occupied Bandwidth - High Channel - Bluetooth configuration

Rev. 4/13/2014

Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
SA EMI Chamber (1327)	9kHz-13.2 GHz	E4405B	Agilent	MY45103416	1327	I	5/30/2014	5/30/2013
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
EMI Chamber 1	719150	2762A-6	A-0015	>1GHz		I	5/17/2015	5/17/2013
Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
1517 HF Preamp	1-20GHz	CS	CS	N/A	1517	II	9/11/2014	9/11/2013
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Orange Horn	1-18GHz	3115	EMCO	0004-6123	390	I	10/2/2014	10/2/2013
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Temp./Humidity/Atm. Pressure Gauge		7400 Perception II	Davis	N/A	965	I	5/29/2014	5/29/2013
TH A#1832		35519-044	Control Company	130318277	1832	II	6/13/2015	6/13/2013
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #1505	9kHz - 18GHz		Florida RF			II	3/7/2015	3/7/2014
Asset #1507	9kHz - 18GHz		Florida RF			II	2/23/2015	2/23/2014

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



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Measurement Uncertainty

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

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



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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 where such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.

12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery



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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.

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

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