



Test Report

Report No	EV0343-1
Client Contact	BEVI Nick Lancaster
Address	529 Main St. Suite 304 Charleston MA, 02129
Items tested FCC ID IC ID	Standup Bevi V2 2AMTV-103838 22810-103838
Equipment Type Equipment Code	Digital Transmission System DTS
FCC/IC Rule Parts	CFR Title 47 FCC Part 15.247, ISSED Canada RSS-247 Issue 2
Test Dates	3/23/2021 to 7/9/2021
Results	As detailed within this report
Prepared by	 Lucas Stampf - Sr. Engineer
Authorized by	 Ryan M. Brown - Sr. Engineer
Issue Date	<u>11/2/2021</u>
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 191 of this report.

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



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Form Final Report REV 12-07-15

Release Control Record

Issue No.	Reason for change	Date Issued
1	Original Release	November 2, 2021



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Summary

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

Equipment under test (EUT) is Standup Bevi V2 MN: 700-0012. It is a Host Device with a transmitter that operates in the 2412 MHz - 2462 MHz frequency range.

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

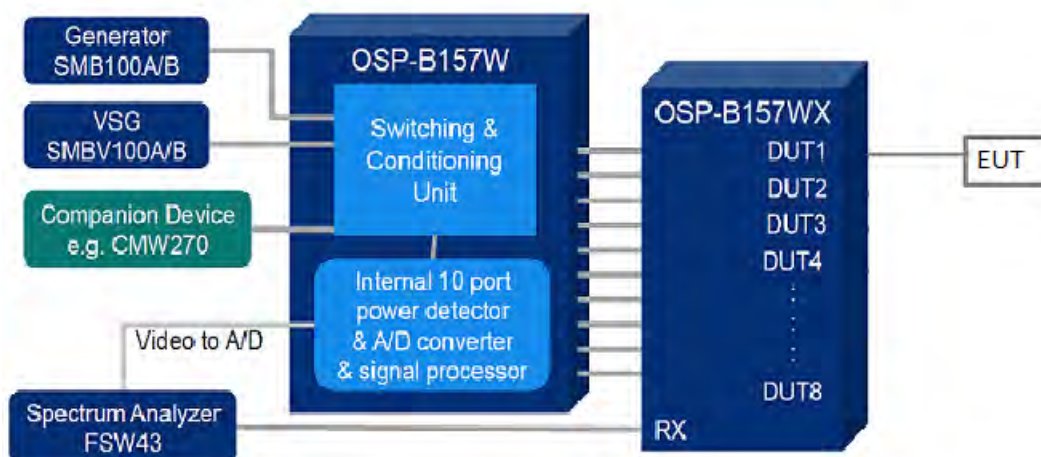
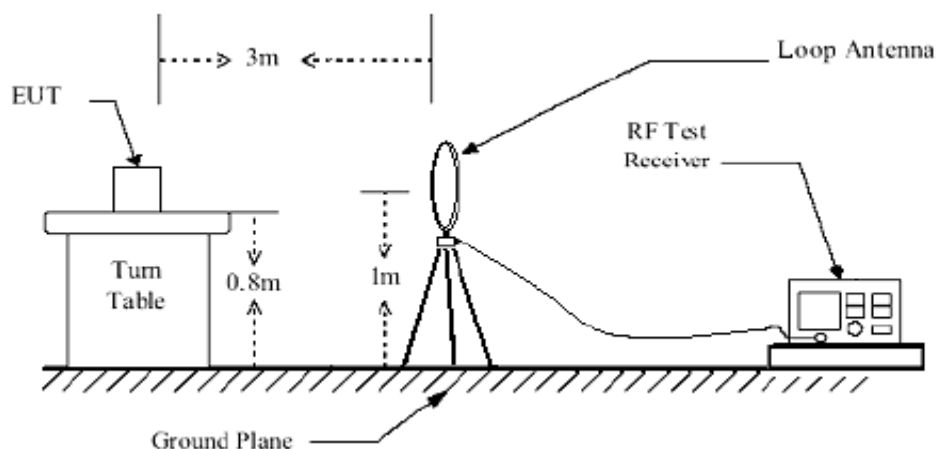
802.11b					
Test	Frequency (MHz)	1 Result	2 Result	5.5 Result	11 Result
Emission Bandwidth 6 dB	2412.000 (single)	PASS	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	2412.000 (single)	PASS	PASS	PASS	PASS
Band Edge low	2412.000 (single)	PASS	PASS	PASS	PASS
Peak output power	2412.000 (single)	PASS	PASS	PASS	PASS
Conducted Spurious Emissions	2412.000 (single)	PASS	PASS	PASS	PASS
Radiated Spurious Emissions	2412.000 (single)	PASS	PASS	PASS	PASS
Power Spectral Density	2412.000 (single)	PASS	PASS	PASS	PASS
Emission Bandwidth 6 dB	2437.000 (single)	PASS	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	2437.000 (single)	PASS	PASS	PASS	PASS
Peak output power	2437.000 (single)	PASS	PASS	PASS	PASS
Conducted Spurious Emissions	2437.000 (single)	PASS	PASS	PASS	PASS
Radiated Spurious Emissions	2437.000 (single)	PASS	PASS	PASS	PASS
Power Spectral Density	2437.000 (single)	PASS	PASS	PASS	PASS
Emission Bandwidth 6 dB	2462.000 (single)	PASS	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	2462.000 (single)	PASS	PASS	PASS	PASS
Band Edge high	2462.000 (single)	PASS	PASS	PASS	PASS
Peak output power	2462.000 (single)	PASS	PASS	PASS	PASS
Conducted Spurious Emissions	2462.000 (single)	PASS	PASS	PASS	PASS
Radiated Spurious Emissions	2462.000 (single)	PASS	PASS	PASS	PASS
Power Spectral Density	2462.000 (single)	PASS	PASS	PASS	PASS
AC Line Conducted Emissions	PASS				

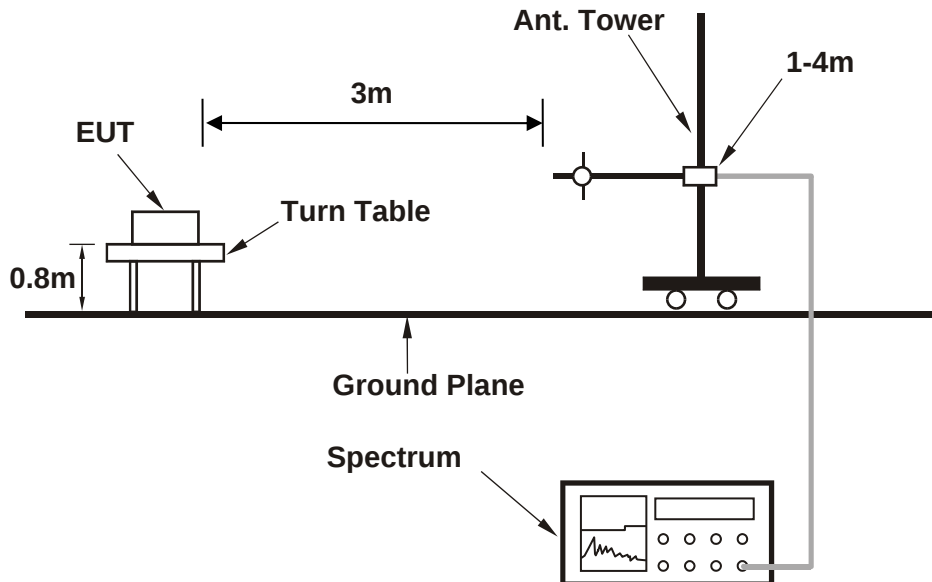
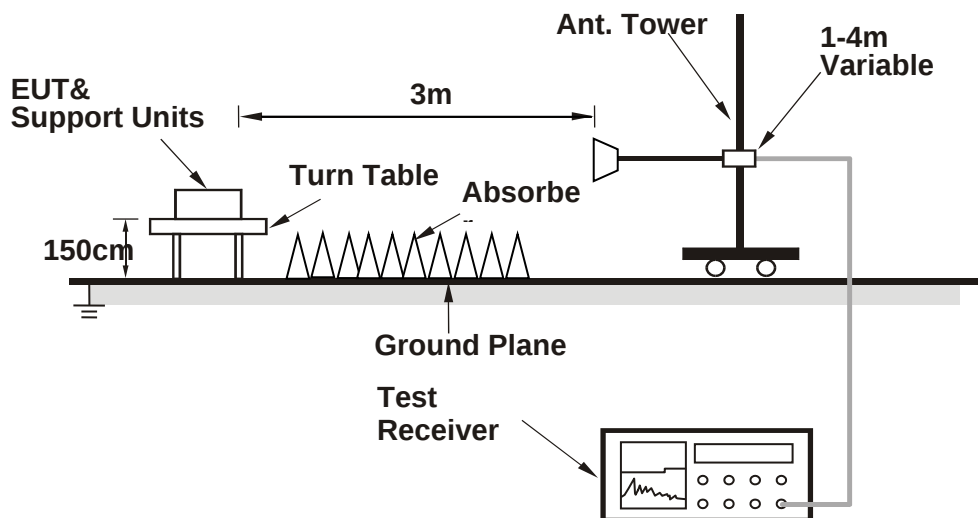


802.11g									
Test	Frequency (MHz)	6 Result	9 Result	12 Result	18 Result	24 Result	36 Result	48 Result	54 Result
Emission Bandwidth 6 dB	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Band Edge low	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Peak output power	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Conducted Spurious Emissions	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Radiated Spurious Emissions	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Power Spectral Density	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Emission Bandwidth 6 dB	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Peak output power	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Conducted Spurious Emissions	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Radiated Spurious Emissions	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Power Spectral Density	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Emission Bandwidth 6 dB	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Band Edge high	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Peak output power	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Conducted Spurious Emissions	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Radiated Spurious Emissions	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Power Spectral Density	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
AC Line Conducted Emissions	Pass								

802.11n									
Test	Frequency (MHz)	MCS 0 Result	MCS 1 Result	MCS 2 Result	MCS 3 Result	MCS 4 Result	MCS 5 Result	MCS 6 Result	MCS 7 Result
Emission Bandwidth 6 dB	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Band Edge low	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Peak output power	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Conducted Spurious Emissions	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Radiated Spurious Emissions	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Power Spectral Density	2412.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Emission Bandwidth 6 dB	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Peak output power	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Conducted Spurious Emissions	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Radiated Spurious Emissions	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Power Spectral Density	2437.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Emission Bandwidth 6 dB	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Band Edge high	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Peak output power	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Conducted Spurious Emissions	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Radiated Spurious Emissions	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Power Spectral Density	2462.000 (single)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
AC Line Conducted Emissions	PASS								



Test Setup Diagram:**Conducted Antenna Port Measurements****SCHEMATIC RF-CABLING****Radiated Emissions
Below 30MHz test setup**

Below 1GHz test setup**Above 1GHz test setup**

All Radiated Emissions Measurements were taken in a Semi-Anechoic Chamber.

Test Methodology

All testing was performed according to the following rules/procedures/documents;
CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 2, ISED Canada RSS-Gen Issue 5, FCC KDB 558074 D01 15.247 Measurement Guidance v05 and ANSI C63.10-2013

Radiated emissions were maximized by rotating the Floor standing Host device 360 degrees as well as varying the test antenna's height and polarity.

EUT antenna is internal and therefore it cannot be maximized separately.

EUT operating voltage is 120VAC, 60Hz.

For AC line conducted emissions a 50 Ω /50 μ H LISN was used.

Environmental conditions are shown on the associated data tables.

Following bandwidths were used during radiated spurious and line conducted emissions tests.

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



Product Tested - Configuration Documentation

EUT Configuration										
Work Order:	V0343									
Company:	BEVI									
Company Address:	529 Main St. Suite 304									
	Charlestown, MA, 02129									
Contact:	Nick Lancaster									
	MN			PN			SN			
EUT:	700-0012			700-0012			DVP04			
EUT Description:	Standup Bevi V2									
EUT Max Frequency:	2400 MHz									
EUT Min Frequency:	0.032768 MHz									
Port Label	Port Type	# ports	# populated	cable type	shielded	ferrites	length (m)	in/out	under test	comment
Power AC	Power AC	1	1	Power AC	No	No	3	in	yes	
Ethernet	Ethernet	1	1	Ethernet	No	No	3	in	yes	
Software Operating Mode Description:										
Software version 12.2Firmware version 1.0.5, Base 0.2.2, Door 0.3.14										
Performance Criteria:										
N/A Emissions Testing Only										

Clock Frequencies	
frequencies (MHz)	2400, 2100, 1900, 1700, 850, 700, 27.12, 16, 6, 2.45, 1, 0.5, 0.032768

Channels available:

802.11b, 802.11g, 802.11n:

Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

Notes

- The channels which were marked bold were tested.

Power Settings

802.11b				802.11g			
Channel	Power Setting	Modulation	Data Rate	Channel	Power Setting	Modulation	Data Rate
1	Default	CCK	1-11Mbps	1	Default	OFDM	6-54Mbps
6	Default	CCK	1-11Mbps	6	Default	OFDM	6-54Mbps
11	Default	CCK	1-11Mbps	11	Default	OFDM	6-54Mbps
802.11n (HT20)							
Channel	Power Setting	Modulation	Data Rate				
1	Default	OFDM	MCS 0-7				
6	Default	OFDM	MCS 0-7				
11	Default	OFDM	MCS 0-7				

Antenna Information:

Flexible PCB Antenna with 3M Adhesive, Magnetic Field antenna,
1.1dBi gain



Statement of Conformity

RSS-GEN	RSP-100	RSS 247	Part 15	Comments
6.4			15.15(b)	There are no controls accessible to the user that varies the output power to operate in violation of the regulatory requirements.
	3.1		15.19	The label is shown in the label exhibit.
	3.2		15.21	Information to the user is shown in the instruction manual exhibit.
			15.27	No special accessories are required for compliance.
3.2			15.31	The EUT was tested in accordance with the measurement standards in this section.
6.13.2			15.33	Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.
6.13.1			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.
6.8			15.203	The antenna for this device is (Flexible PCB Antenna with 3M Adhesive, Magnetic Field antenna, 1.1dBi 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	EUT meets the AC Line conducted emissions requirements of this section.
			15.247	The unit complies with the requirements of 15.247
		RSS 247		The unit complies with the requirements of RSS-247
6.7				99% occupied bandwidth measurements were performed.

Modifications Required for Compliance

Conducted Emissions required a modification to the EUT to comply with the requirements of 15.207. An AC line filter Part number: 15CUFE1 was add to the EUT.

All other tests were performed without the modification in place. A spot check of radiated Spurious Colocation was performed and a Spot check of Conducted Output power was performed.



Test Results

DTS (6dB) Bandwidth

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 2%

LIMIT

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

The worst case data rate for each mode was determined by the data rate with the widest bandwidth per ANSI C63.10 section 5.6.2.2

MEASUREMENTS / RESULTS

Data Table

802.11 b					
Data Rate	Bandwidth (MHz)	Band Edge Left (MHz)	Center Channel (MHz)	Band Edge Right (MHz)	Result
1	8.600000	2457.425000	2462	2466.025000	PASS
1	8.150000	2407.875000	2412	2416.025000	PASS
1	8.150000	2432.875000	2437	2441.025000	PASS
2	8.250000	2407.825000	2412	2416.075000	PASS
2	8.150000	2432.825000	2437	2440.975000	PASS
2	8.150000	2457.875000	2462	2466.025000	PASS
5.5	8.400000	2432.775000	2437	2441.175000	PASS
5.5	8.250000	2407.775000	2412	2416.025000	PASS
5.5	8.350000	2457.775000	2462	2466.125000	PASS
11	8.400000	2407.675000	2412	2416.075000	PASS
11	8.150000	2432.725000	2437	2440.875000	PASS
11	8.350000	2457.875000	2462	2466.225000	PASS



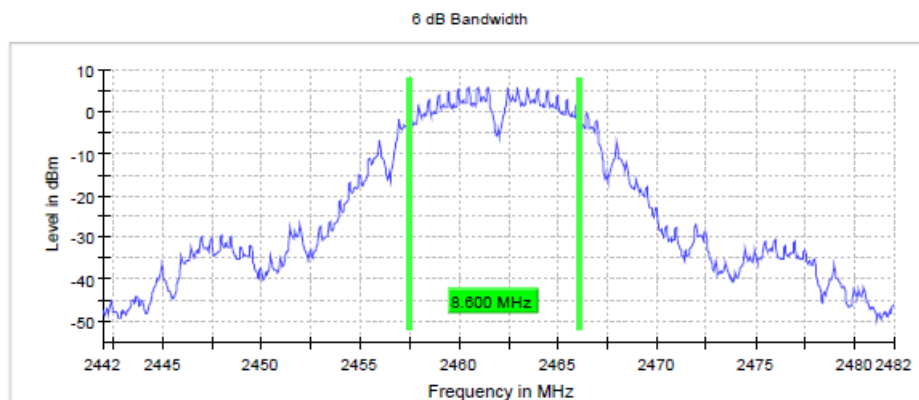
802.11 g					
Data Rate	Bandwidth (MHz)	Band Edge Left (MHz)	Center Channel (MHz)	Band Edge Right (MHz)	Result
6	16.400000	2428.775000	2437	2445.175000	PASS
6	16.350000	2403.775000	2412	2420.125000	PASS
6	15.900000	2454.025000	2462	2469.925000	PASS
9	16.400000	2428.775000	2437	2445.175000	PASS
9	16.400000	2403.775000	2412	2420.175000	PASS
9	15.750000	2454.025000	2462	2469.775000	PASS
12	16.350000	2403.775000	2412	2420.125000	PASS
12	16.350000	2428.775000	2437	2445.125000	PASS
12	15.500000	2454.325000	2462	2469.825000	PASS
18	16.350000	2428.775000	2437	2445.125000	PASS
18	16.350000	2403.775000	2412	2420.125000	PASS
18	15.500000	2454.325000	2462	2469.825000	PASS
24	16.450000	2428.725000	2437	2445.175000	PASS
24	16.450000	2403.725000	2412	2420.175000	PASS
24	16.450000	2453.725000	2462	2470.175000	PASS
36	16.450000	2428.725000	2437	2445.175000	PASS
36	16.400000	2403.775000	2412	2420.175000	PASS
36	16.350000	2453.825000	2462	2470.175000	PASS
48	16.200000	2403.725000	2412	2419.925000	PASS
48	16.200000	2428.725000	2437	2444.925000	PASS
48	16.050000	2453.775000	2462	2469.825000	PASS
54	15.850000	2429.075000	2437	2444.925000	PASS
54	15.850000	2404.075000	2412	2419.925000	PASS
54	15.700000	2454.175000	2462	2469.875000	PASS



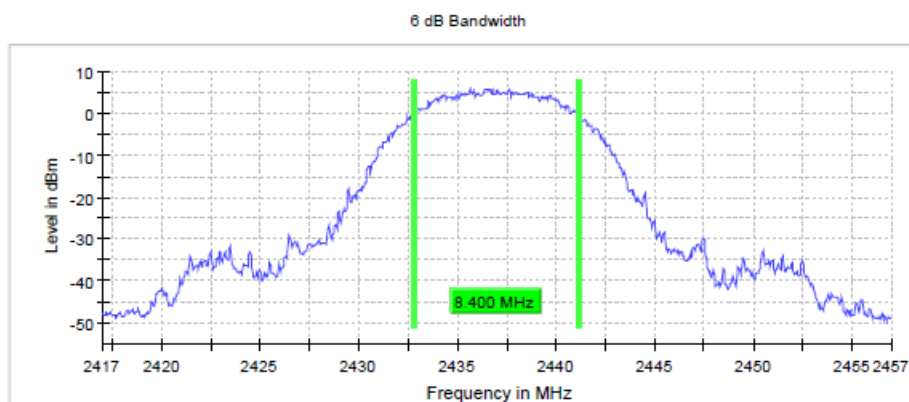
802.11 n					
Data Rate	Bandwidth (MHz)	Band Edge Left (MHz)	Center Channel (MHz)	Band Edge Right (MHz)	Result
MCS 0	17.400000	2428.125000	2437	2445.525000	PASS
MCS 0	17.350000	2403.175000	2412	2420.525000	PASS
MCS 0	16.750000	2453.775000	2462	2470.525000	PASS
MCS 1	17.700000	2428.075000	2437	2445.775000	PASS
MCS 1	17.650000	2403.125000	2412	2420.775000	PASS
MCS 1	17.300000	2453.475000	2462	2470.775000	PASS
MCS 2	17.650000	2428.125000	2437	2445.775000	PASS
MCS 2	17.650000	2403.125000	2412	2420.775000	PASS
MCS 2	17.000000	2453.475000	2462	2470.475000	PASS
MCS 3	17.750000	2403.075000	2412	2402.825000	PASS
MCS 3	17.750000	2428.075000	2437	2445.825000	PASS
MCS 3	17.700000	2453.125000	2462	2470.825000	PASS
MCS 4	17.700000	2428.075000	2437	2445.775000	PASS
MCS 4	17.650000	2403.125000	2412	2420.775000	PASS
MCS 4	17.350000	2453.425000	2462	2470.775000	PASS
MCS 5	17.700000	2453.125000	2462	2470.825000	PASS
MCS 5	17.700000	2403.125000	2412	2420.825000	PASS
MCS 5	17.700000	2423.075000	2437	2440.775000	PASS
MCS 6	17.750000	2428.075000	2437	2445.825000	PASS
MCS 6	17.750000	2403.075000	2412	2420.825000	PASS
MCS 6	17.350000	2453.125000	2462	2470.475000	PASS
MCS 7	17.750000	2428.075000	2437	2445.825000	PASS
MCS 7	17.750000	2403.075000	2412	2420.825000	PASS
MCS 7	17.700000	2453.125000	2462	2470.825000	PASS



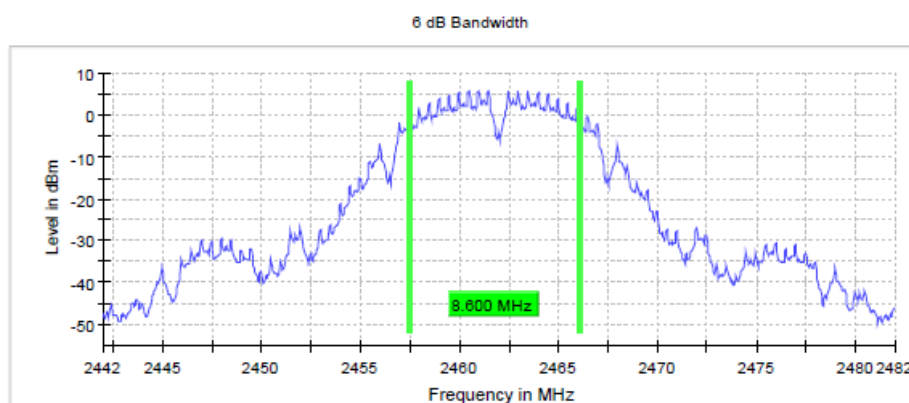
Plots



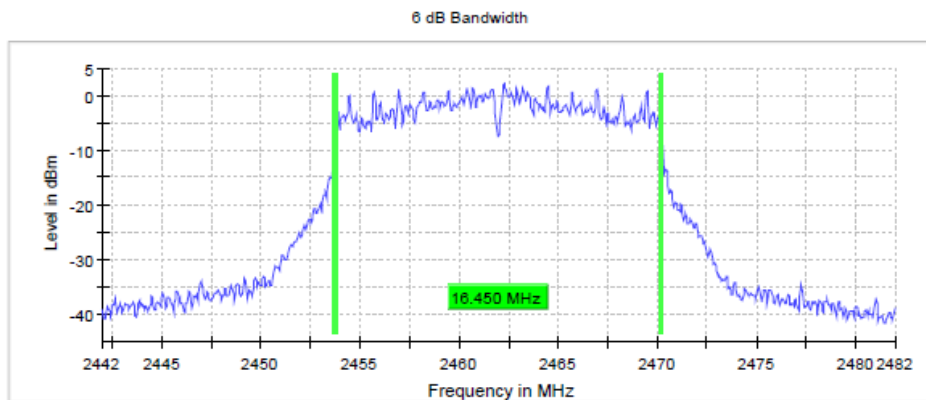
802.11 b Low Channel Data Rate 11



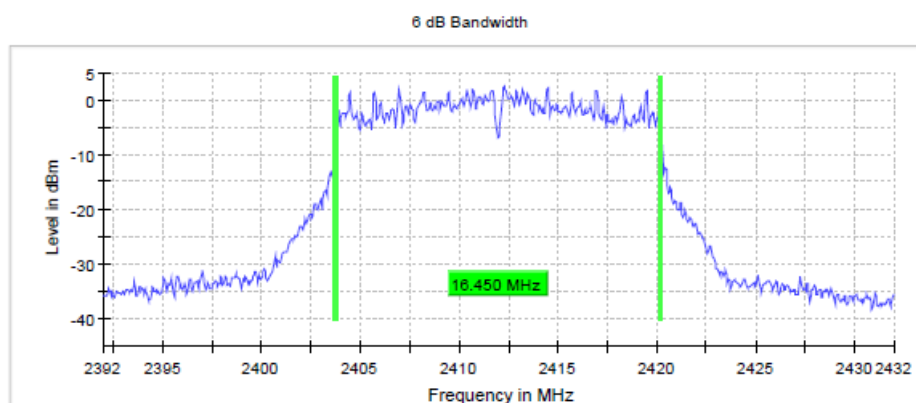
802.11 b Mid Channel Data Rate 5.5



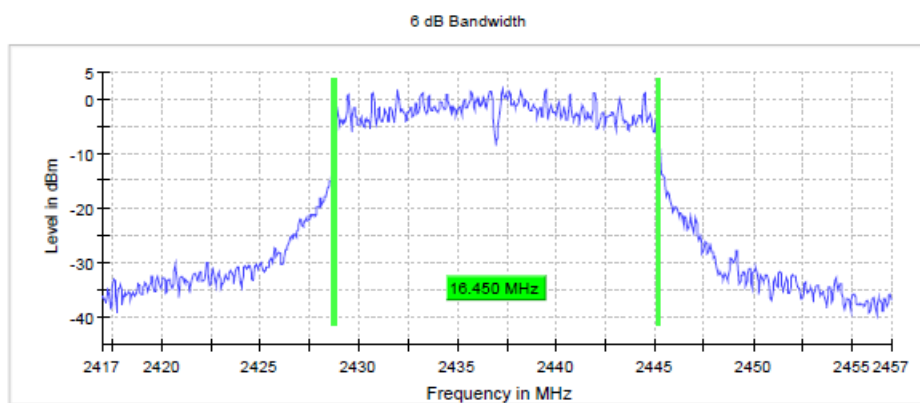
802.11 b High Channel Data Rate 1



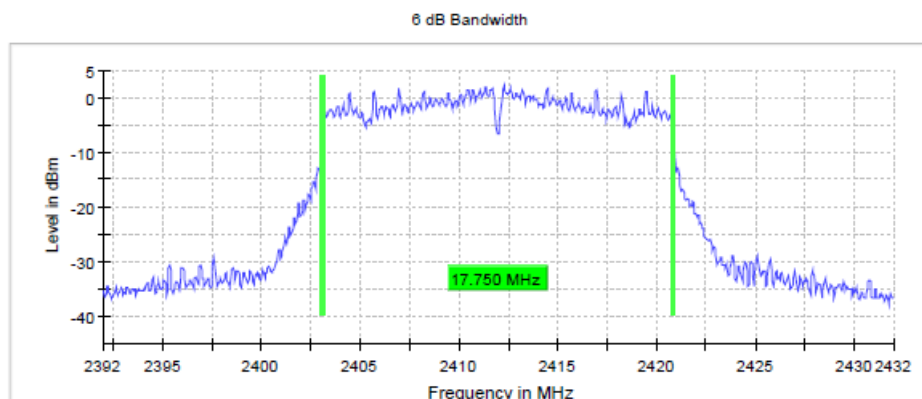
802.11 g High Channel Data Rate 24



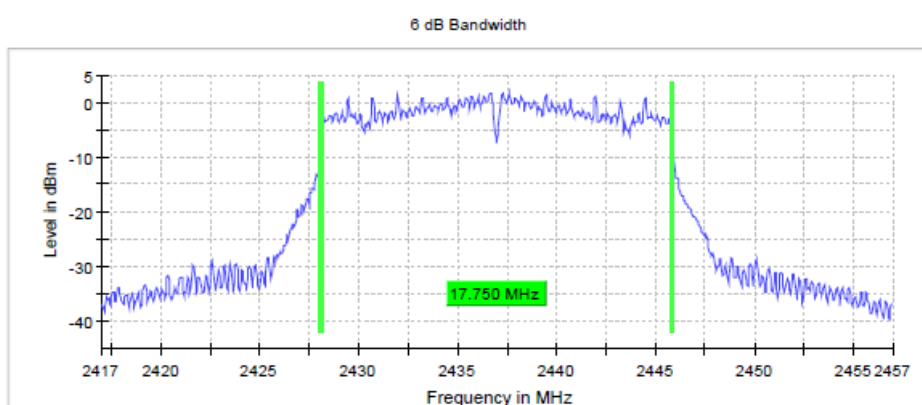
802.11 g Low Channel Data Rate 24



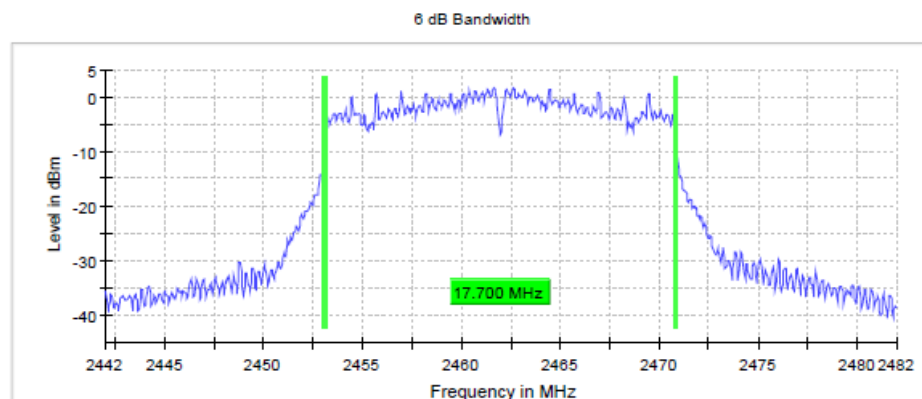
802.11 g Mid Channel Data Rate 36



802.11 n Low Channel Data Rate MCS 3



802.11 n Mid Channel Data Rate MCS 3



802.11 n High Channel Data Rate MCS 3

Test Equipment Used

Rev. 6/9/2021

Spectrum Analyzers / Receivers /Preselectors

FSV40 Spectrum Analyzer

Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
10Hz-40GHz	FSV40	ROHDE & SCHWARZ	101551	2200	I	10/23/2021	10/23/2020

Signal Generators/Comparison Noise Emitter

SMBV100A Vector Signal Generator

SMB100A Signal Generator

OSP-B157W8

CMW270 Wireless Connectivity Tester

Meteorological Meters/Chambers

Weather Clock (Pressure Only)

Asset #2654

Cables

DUT 2

Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
9KHz-6GHz	SMBV100A	ROHDE & SCHWARZ	261919	2201	I	10/23/2021	10/23/2020
100kHz-40GHz	SMB100A	ROHDE & SCHWARZ	179884	2557	I	10/26/2021	10/26/2020
	OSP-B157W8	ROHDE & SCHWARZ	100955	2558	I	7/30/2021	4/16/2020
	CMW270	ROHDE & SCHWARZ	101066	2559	I	4/3/2022	4/3/2020
	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
	BA928	Oregon Scientific	C3166-1	831	I	11/23/2022	11/23/2020
	1235C97	Control Company	200477432	2654	I	8/13/2022	8/13/2020
30MHz-40GHz		Micro-Coax	UFB142A-1-0787-200200	2594	I	1/24/2022	1/24/2021

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



Peak Output Power

Tested according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.9.2.3.2

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

LIMIT

1 Watt [15.247(b) (3)]

MEASUREMENTS / RESULTS

Data Table

Data Rate	2412MHz	2437MHz	2462MHz	Limit dBm
802.11 b				
1	20.5	20.2	19.8	30
2	20.7	20.5	20.1	30
5.5	19.8	19.6	19.2	30
11	19.8	19.4	19	30
802.11 g				
6	20.6	20.4	20.0	30
9	20.4	20.5	20.0	30
12	20.5	20.2	20.0	30
18	20.5	20.2	20.0	30
24	19.6	19.6	18.9	30
36	19.6	19.2	18.9	30
48	19.5	19.3	19.0	30
54	19.4	19.1	18.8	30
802.11 n				
MCS 0	19.2	19.0	18.4	30
MCS 1	19.0	18.7	18.4	30
MCS 2	19.0	18.6	18.3	30
MCS 3	18.8	18.6	18.4	30
MCS 4	18.0	17.9	17.4	30
MCS 5	18.1	17.8	17.4	30
MCS 6	18.0	17.6	17.4	30
MCS 7	18.2	17.8	17.7	30

802.11b Data Rate 2 Low Channel 2412MHz

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	15.7	30.0	20.7	99.224	PASS

802.11 g Data Rate 6 Low Channel 2412 MHz

Result

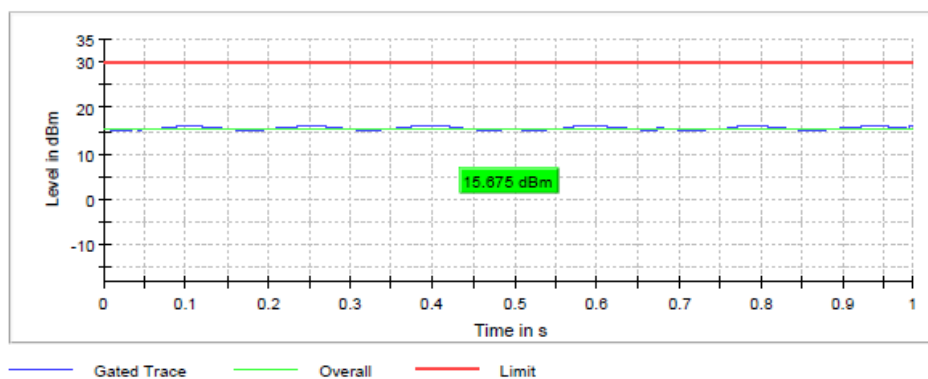
DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	15.6	30.0	20.6	97.164	PASS

802.11 n Data Rate MCS 0 Low Channel 2412 MHz

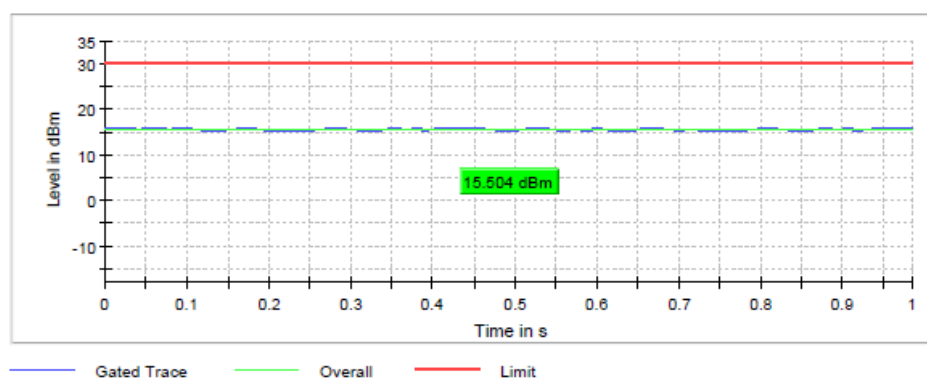
Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	14.2	30.0	19.2	96.929	PASS

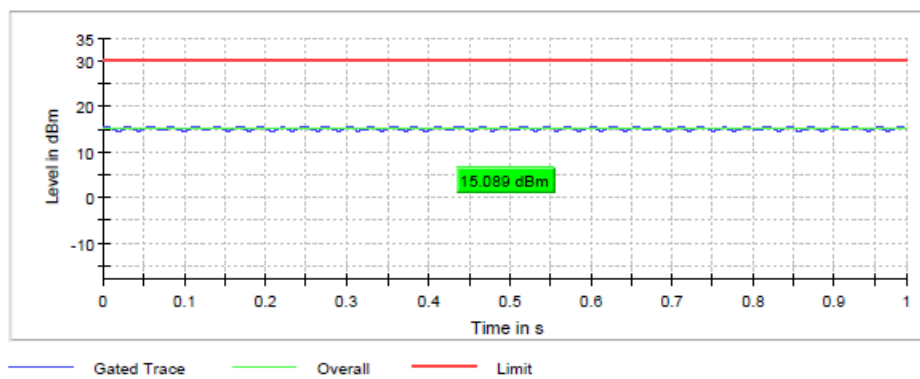
Plots



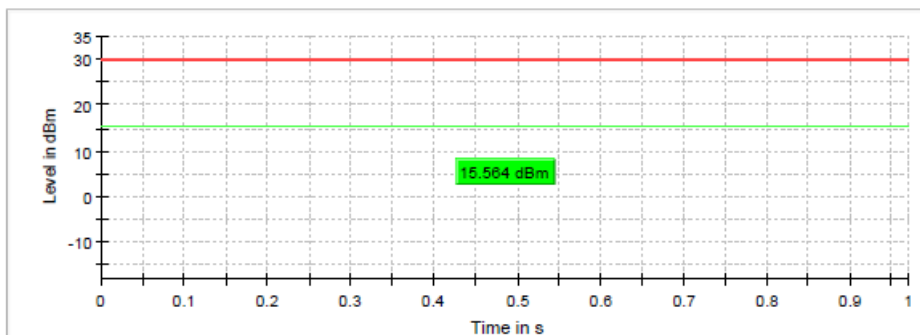
802.11b Data Rate 2 Low Channel 2412 MHz



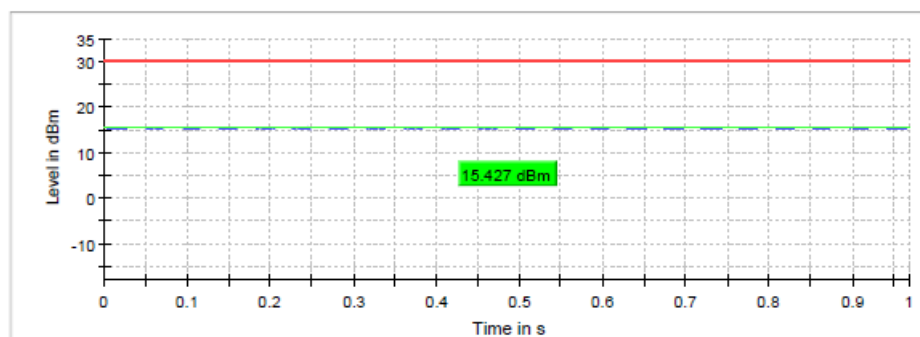
802.11b Data Rate 2 Mid Channel 2437 MHz



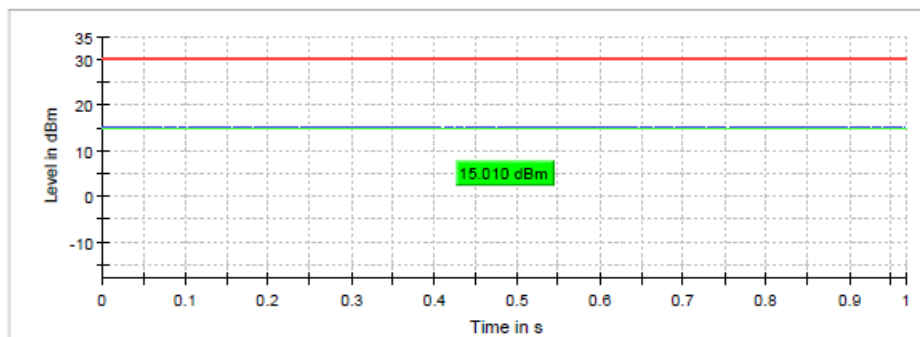
802.11b Data Rate 2 High Channel 2462 MHz



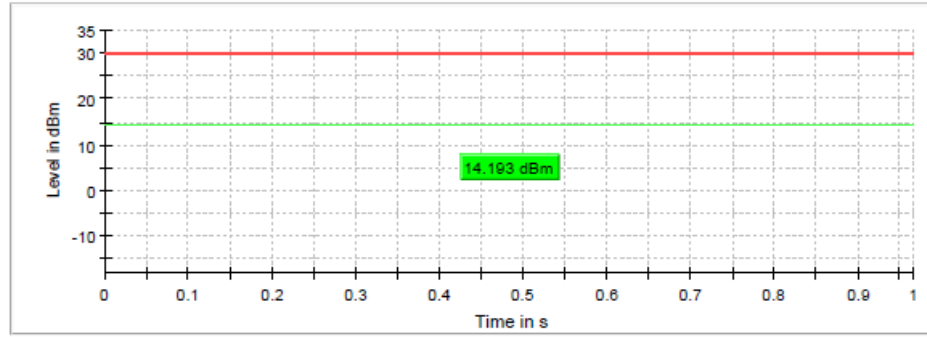
802.11g Data Rate 6 Low Channel 2412 MHz



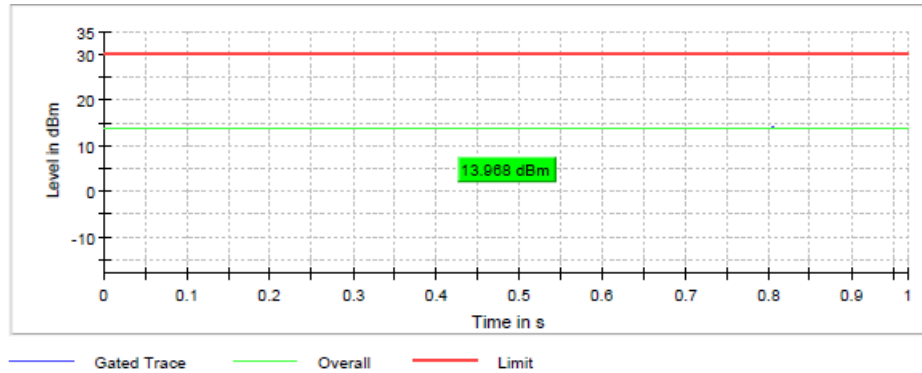
802.11g Data Rate 6 Mid Channel 2437 MHz



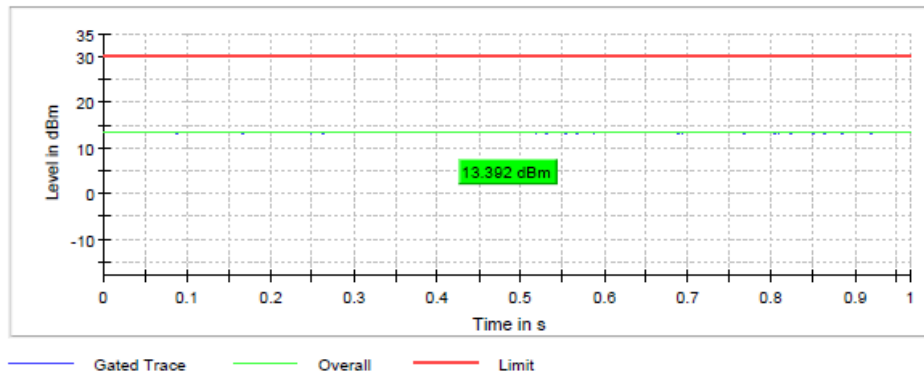
802.11g Data Rate 6 High Channel 2462 MHz



802.11n Data Rate MCS 0 Low Channel 2412 MHz



802.11n Data Rate MCS 0 Mid Channel 2437 MHz



802.11n Data Rate MCS 0 High Channel 2462 MHz

Test Equipment Used

Rev. 6/9/2021

Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
FSV40 Spectrum Analyzer	10Hz-40GHz	FSV40	ROHDE & SCHWARZ	101551	2200	I	10/23/2021	10/23/2020
Signal Generators/Comparison Noise Emitter	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
SMBV100A Vector Signal Generator	9KHz-6GHz	SMBV100A	ROHDE & SCHWARZ	261919	2201	I	10/23/2021	10/23/2020
SMB100A Signal Generator	100kHz-40GHz	SMB100A	ROHDE & SCHWARZ	179884	2557	I	10/26/2021	10/26/2020
OSP-B157W8		OSP-B157W8	ROHDE & SCHWARZ	100955	2558	I	7/30/2021	4/16/2020
CMW270 Wireless Connectivity Tester		CMW270	ROHDE & SCHWARZ	101066	2559	I	4/3/2022	4/3/2020
Meteorological Meters/Chambers		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	11/23/2022	11/23/2020
Asset #2654		1235C97	Control Company	200477432	2654	I	8/13/2022	8/13/2020
Cables								
DUT 2	30MHz-40GHz		Micro-Coax	UFB142A-1-0787-200200	2594	I	1/24/2022	1/24/2021

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



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Band Edge Measurements

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 8.7 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 0.8 dB

LIMITS

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

[15.247(d)]

The worst case data rate for each mode was determined by the data rate with the widest bandwidth per ANSI C63.10 section 5.6.2.2

Worst Case Band edge was determined by the Channels with the widest 99% Bandwidth

MEASUREMENTS / RESULTS

Conducted Band Edges

Data Table

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2398.475000	-25.6	6.4	-19.2	PASS
2397.975000	-25.6	6.5	-19.2	PASS
2398.425000	-25.8	6.6	-19.2	PASS
2397.925000	-26.0	6.8	-19.2	PASS
2396.975000	-26.3	7.1	-19.2	PASS
2397.475000	-26.7	7.5	-19.2	PASS
2396.925000	-26.7	7.5	-19.2	PASS
2397.425000	-26.9	7.8	-19.2	PASS
2398.025000	-26.9	7.8	-19.2	PASS
2398.225000	-27.4	8.2	-19.2	PASS
2398.525000	-27.5	8.3	-19.2	PASS
2399.475000	-27.5	8.4	-19.2	PASS
2398.325000	-27.6	8.4	-19.2	PASS
2398.075000	-27.7	8.5	-19.2	PASS
2398.275000	-27.8	8.6	-19.2	PASS

802.11 b Low Channel Data Rate 1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.525000	-39.3	19.9	-19.3	PASS
2483.625000	-40.1	20.8	-19.3	PASS
2483.575000	-40.4	21.1	-19.3	PASS
2483.675000	-41.7	22.4	-19.3	PASS
2483.825000	-41.9	22.5	-19.3	PASS
2483.775000	-41.9	22.6	-19.3	PASS
2484.625000	-42.0	22.6	-19.3	PASS
2484.475000	-42.0	22.6	-19.3	PASS
2484.525000	-42.0	22.7	-19.3	PASS
2487.925000	-42.0	22.7	-19.3	PASS
2484.575000	-42.0	22.7	-19.3	PASS
2484.325000	-42.1	22.8	-19.3	PASS
2484.675000	-42.1	22.8	-19.3	PASS
2485.975000	-42.2	22.8	-19.3	PASS
2486.725000	-42.2	22.8	-19.3	PASS

802.11 b High Channel Data Rate 1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2396.025000	-22.6	0.3	-22.3	PASS
2396.075000	-22.9	0.6	-22.3	PASS
2395.975000	-23.5	1.2	-22.3	PASS
2399.625000	-24.0	1.7	-22.3	PASS
2399.675000	-24.2	1.9	-22.3	PASS
2399.825000	-24.2	1.9	-22.3	PASS
2399.725000	-24.3	2.0	-22.3	PASS
2399.775000	-24.3	2.0	-22.3	PASS
2398.225000	-24.4	2.1	-22.3	PASS
2398.275000	-24.4	2.1	-22.3	PASS
2399.175000	-24.6	2.3	-22.3	PASS
2399.575000	-24.6	2.3	-22.3	PASS
2399.925000	-24.7	2.4	-22.3	PASS
2399.525000	-24.7	2.4	-22.3	PASS
2397.575000	-24.7	2.4	-22.3	PASS

802.11 g Low Channel Data Rate 9

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2484.075000	-31.0	8.6	-22.4	PASS
2484.125000	-31.0	8.7	-22.4	PASS
2484.175000	-31.6	9.2	-22.4	PASS
2483.575000	-32.0	9.6	-22.4	PASS
2483.625000	-32.1	9.7	-22.4	PASS
2483.925000	-32.1	9.7	-22.4	PASS
2484.425000	-32.1	9.8	-22.4	PASS
2484.475000	-32.2	9.8	-22.4	PASS
2483.975000	-32.3	9.9	-22.4	PASS
2484.525000	-32.4	10.0	-22.4	PASS
2485.075000	-32.7	10.3	-22.4	PASS
2483.825000	-32.7	10.3	-22.4	PASS
2483.875000	-32.7	10.3	-22.4	PASS
2483.525000	-32.7	10.3	-22.4	PASS
2485.125000	-32.7	10.4	-22.4	PASS

802.11 g High Channel Data Rate 9



Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.775000	-24.4	1.3	-23.1	PASS
2399.825000	-24.8	1.7	-23.1	PASS
2399.975000	-24.9	1.8	-23.1	PASS
2399.725000	-25.1	2.0	-23.1	PASS
2398.475000	-25.7	2.6	-23.1	PASS
2398.225000	-25.7	2.6	-23.1	PASS
2398.525000	-25.7	2.6	-23.1	PASS
2398.175000	-25.9	2.8	-23.1	PASS
2398.825000	-26.1	3.0	-23.1	PASS
2399.125000	-26.1	3.0	-23.1	PASS
2399.175000	-26.2	3.1	-23.1	PASS
2398.275000	-26.2	3.1	-23.1	PASS
2398.575000	-26.3	3.2	-23.1	PASS
2399.225000	-26.4	3.3	-23.1	PASS
2399.625000	-26.5	3.4	-23.1	PASS

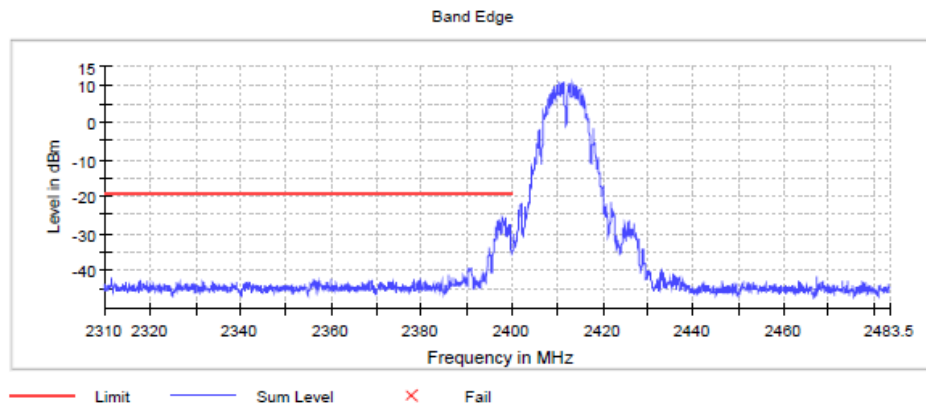
802.11 n Low Channel Data Rate MCS 0

Measurements

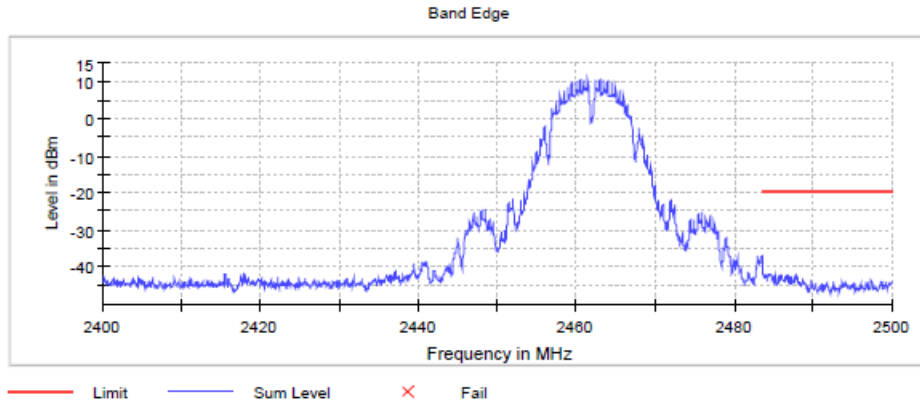
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2485.275000	-35.3	11.6	-23.7	PASS
2483.825000	-35.4	11.7	-23.7	PASS
2485.325000	-35.4	11.8	-23.7	PASS
2483.875000	-35.7	12.0	-23.7	PASS
2484.475000	-35.9	12.3	-23.7	PASS
2484.425000	-36.0	12.4	-23.7	PASS
2486.025000	-36.1	12.4	-23.7	PASS
2484.175000	-36.1	12.4	-23.7	PASS
2483.925000	-36.2	12.5	-23.7	PASS
2485.225000	-36.3	12.6	-23.7	PASS
2484.225000	-36.4	12.7	-23.7	PASS
2486.075000	-36.4	12.7	-23.7	PASS
2484.375000	-36.5	12.8	-23.7	PASS
2485.975000	-36.5	12.8	-23.7	PASS
2483.975000	-36.5	12.8	-23.7	PASS

802.11 n High Channel Data Rate MCS 0

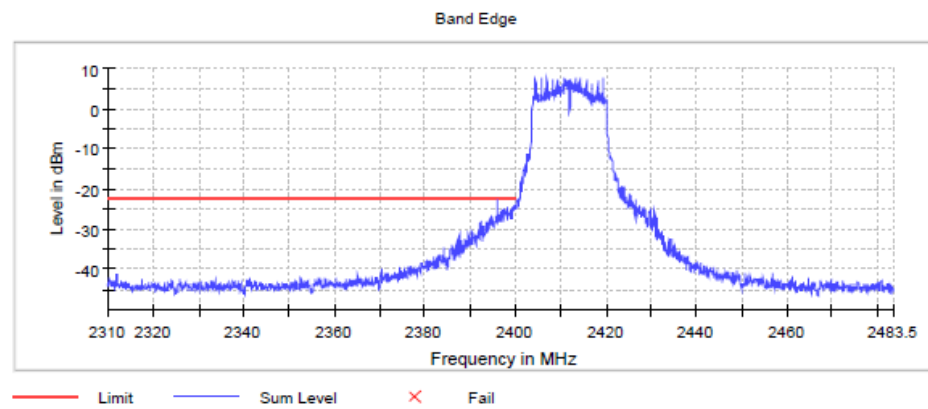
Plots



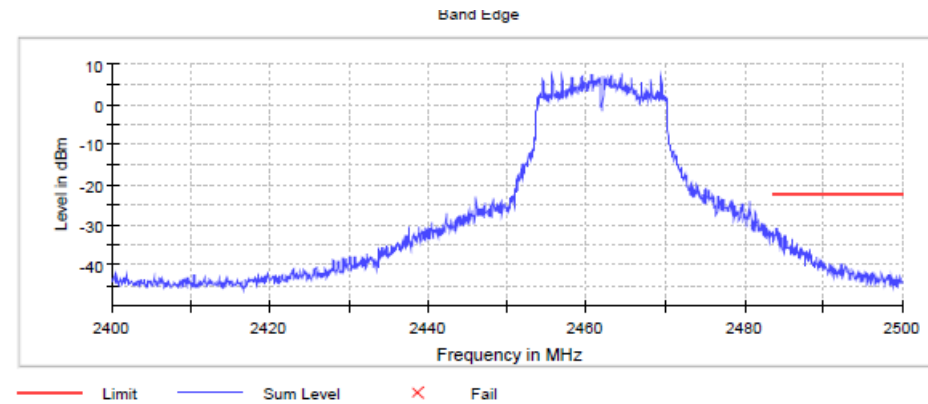
802.11 b Data Rate 1 Low Channel



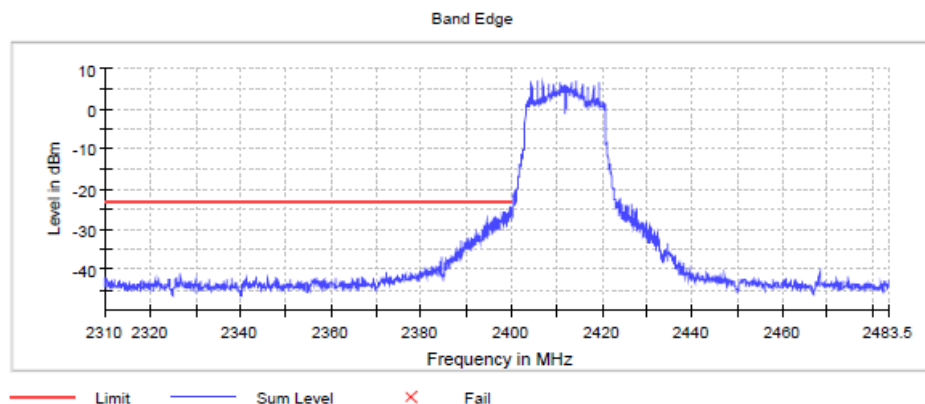
802.11 b Data Rate 1 High Channel



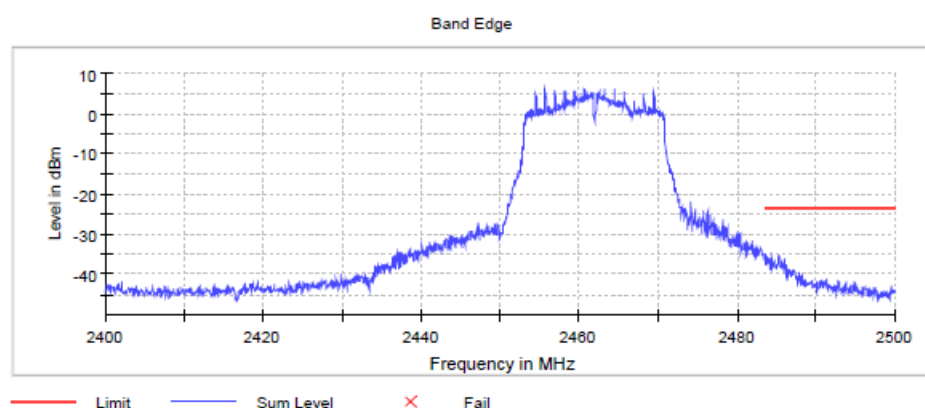
802.11 g Data Rate 9 Low Channel



802.11 g Data Rate 9 High Channel



802.11 n Data Rate MCS 0 Low Channel



802.11 n Data Rate MCS 0 High Channel

Test Equipment Used

Rev. 6/9/2021

Spectrum Analyzers / Receivers /Preselectors

FSV40 Spectrum Analyzer

Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
10Hz-40GHz	FSV40	ROHDE & SCHWARZ	101551	2200	I	10/23/2021	10/23/2020

Signal Generators/Comparison Noise Emitter

SMBV100A Vector Signal Generator

Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
9KHz-6GHz	SMBV100A	ROHDE & SCHWARZ	261919	2201	I	10/23/2021	10/23/2020

SMB100A Signal Generator

100kHz-40GHz	SMB100A	ROHDE & SCHWARZ	179884	2557	I	10/26/2021	10/26/2020
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OSP-B157W8

OSP-B157W8	OSP-B157W8	ROHDE & SCHWARZ	100955	2558	I	7/30/2021	4/16/2020
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CMW270 Wireless Connectivity Tester

CMW270	CMW270	ROHDE & SCHWARZ	101066	2559	I	4/3/2022	4/3/2020
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Meteorological Meters/Chambers

Weather Clock (Pressure Only)

MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
BA928	Oregon Scientific	C3166-1	831	I	11/23/2022	11/23/2020

Asset #2654

1235C97	Control Company	200477432	2654	I	8/13/2022	8/13/2020
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Cables

DUT 2

30MHz-40GHz	Micro-Coax	UFB142A-1-0787-200200	2594	I	1/24/2022	1/24/2021
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All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



Radiated Band Edges

Test according to CFR Title 47 FCC Part 15.247, ISCED Canada RSS-247 Issue 2, ISCED Canada RSS-Gen Issue 5, FCC KDB 558074 D01 15.247 Measurement Guidance v05 and ANSI C63.10-2013

Data Table

Radiated Band Edge Emissions Table														
Date: 22-May-21			Company: Bevi Inc						Work Order: V0343					
Engineer: Ryan M. Brown			EUT Desc: Standup Bevi V2			EUT Operating Voltage/Frequency:								
Temp: 25.9			Humidity: 37%			Pressure: 1013 mbar								
			Frequency Range: 1-6GHz			Measurement Distance: 1 m								
Notes: Band Edge						EUT Max Freq: 2462MHz								
802.11 B Data Rate 11														
Antenna	Frequency	Peak	Average	Preamp	Antenna	Cable	Adjusted	Adjusted	FCC Class B High Frequency - Peak			FCC Class B High Frequency - 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)
Low CH														
H	2390.0	29.634	17.4	0.0	32.0	3.7	65.3	53.1	83.5	-18.2	Pass	63.5	-10.4	Pass
V	2390.0	23.324	14.4	0.0	32.0	3.7	59.0	50.1	83.5	-24.5	Pass	63.5	-13.4	Pass
High CH														
H	2483.5	25.024	14.7	0.0	32.9	3.8	61.7	51.3	83.5	-21.8	Pass	63.5	-12.2	Pass
V	2483.5	23.258	14.3	0.0	32.9	3.8	59.9	51.0	83.5	-23.6	Pass	63.5	-12.5	Pass
802.11G Data Rate 36 Low Ch														
H	2390.0	39.949	25.7	0.0	32.0	3.7	75.6	61.3	83.5	-7.9	Pass	63.5	-2.2	Pass
V	2390.0	34.428	21.9	0.0	32.0	3.7	70.1	57.5	83.5	-13.4	Pass	63.5	-6.0	Pass
802.11G Data Rate 12 High CH														
H	2483.5	38.743	26.7	0.0	32.9	3.8	75.4	63.4	83.5	-8.1	Pass	63.5	-0.1	Pass
V	2483.5	31.975	21.2	0.0	32.9	3.8	68.6	57.8	83.5	-14.9	Pass	63.5	-5.7	Pass
802.11N Data Rate MCS 3 Low Ch														
H	2390.0	38.869	25.6	0.0	32.0	3.7	74.5	61.3	83.5	-9.0	Pass	63.5	-2.2	Pass
V	2390.0	31.951	20.8	0.0	32.0	3.7	67.6	56.5	83.5	-15.9	Pass	63.5	-7.0	Pass
802.11G Data Rate MCS 1 High Ch														
H	2483.5	30.072	19.0	0.0	32.9	3.8	66.7	55.6	83.5	-16.8	Pass	63.5	-7.9	Pass
V	2483.5	29.747	18.8	0.0	32.9	3.8	66.4	55.5	83.5	-17.1	Pass	63.5	-8.0	Pass
Table Result:		Pass	by		-0.1 dB							Worst Freq:	2483.5 MHz	
Test Site: EMI Chamber 1 Analyzer: MXE 2093 CSsoft Radiated Emissions Calculator v 1.017.217 Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor														
			Cable 1: 2580			Cable 2: 2584			Cable 3: ---			Preselecto		
			Preamp: None						Antenna: Blue Horn			Copyright Curtis-Straus LLC. 2000		

Test Equipment Used

Rev. 6/9/2021

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
2093 MXE EMI Receiver		20Hz-26.5GHz	N9038A	Agilent	MY51210181	2093	I	1/14/2022	1/14/2021
Radiated Emissions Sites		FCC Code	IC Code	VCCI Code	Range	Asset	Cat	Calibration Due	Calibrated on
EMI Chamber 2		719150	2762A-7	A-0015	30-1000MHz	1686	I	12/5/2022	12/5/2020
EMI Chamber 2		719150	2762A-7	A-0015	1-18GHz	1686	I	12/8/2022	12/8/2020
Antennas		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Blue Horn		1-18GHz	3117	ETS	157647	1861	I	4/26/2023	4/26/2021
Cables		Range	Mfr		Cat		Calibration Due	Calibrated on	
Asset #2580		9KHz-18GHz	Pasternack		II		1/17/2022	1/17/2021	
Asset #2584		9KHz-18GHz	Pasternack		II		11/7/2021	11/7/2020	

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



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Radiated Spurious Emissions

Test according to CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 2, ISED Canada RSS-Gen Issue 5, FCC KDB 558074 D01 15.247 Measurement Guidance v05 and ANSI C63.10-2013

LIMITS

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

Description of Calculations:

Adjusted Reading(dBμV/m) = Raw Reading(dBμV) + Correction Factor(dB/m)
Correction Factor = Antenna Factor(dB/m) + Cable Factor(dB) - Preamp Factor(dB)
Margin(dB) = Adjusted Reading(dBμV/m) - Limit(dBμV/m)

Measurement Software Used:

ETS-LINDGREN TILE!™ 7.4.4.12

MEASUREMENTS / RESULTS

Data Tables

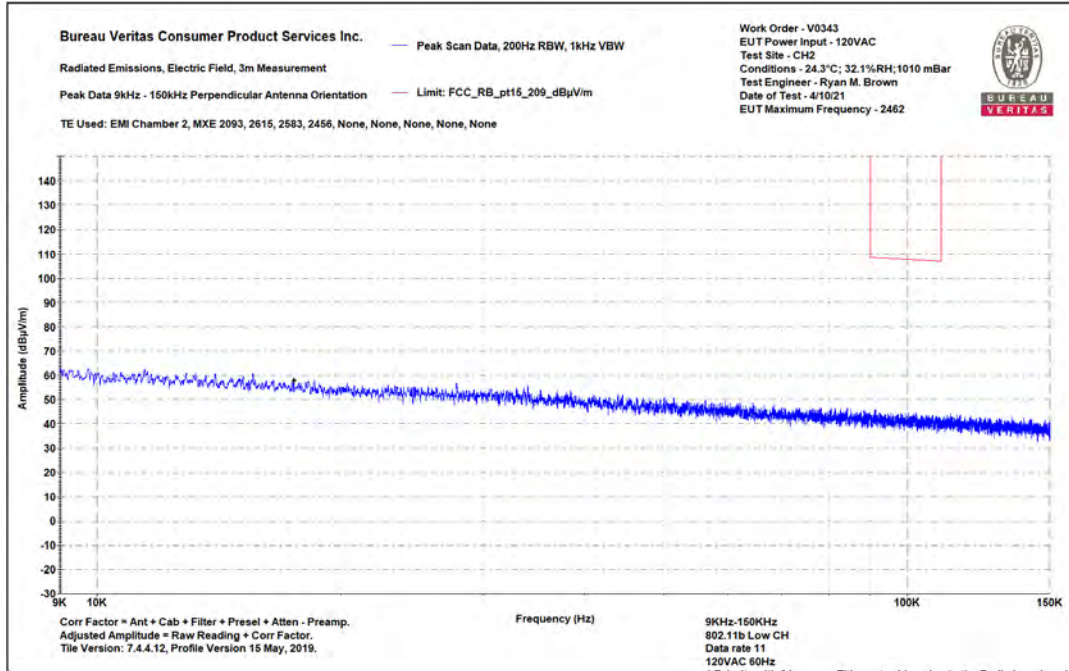
802.11b Data Rate 11 Low Channel

Bureau Veritas Consumer Product Services Inc.	Work Order - V0343
Radiated Emissions, Electric Field, 3m Measurement	EUT Power Input - 120VAC
Top Peaks Perpendicular 9-150kHz	Test Site - CH2
Notes:	Conditions - 24.3°C; 32.1%RH;1010 mBar
9KHz-150KHz	Test Engineer - Ryan M. Brown
802.11b Low CH, Data Rate: 11	Date of Test - 4/10/21
1 Fair-rite with 2 loops on Ethernet cable going to the Radio board, and one fai-rite with the ethernet cable going strait through.	EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.1001	32.19	10.1	42.29	107.6	-65.31	PASS	
0.1099	31.91	10.1	42.01	106.7	-64.69	PASS	
0.091362	35.2	10.5	45.6	108.4	-62.8	PASS	-62.8

9 KHz – 150 KHz Perpendicular





9 KHz – 150 KHz Perpendicular

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Parallel 9-150kHz

Notes:

9KHz-150KHz

802.11b Low CH

Work Order - V0343

EUT Power Input - 120VAC

Test Site - CH2

Conditions - 24.3°C; 32.1%RH; 1010 mBar

Test Engineer - Ryan M. Brown

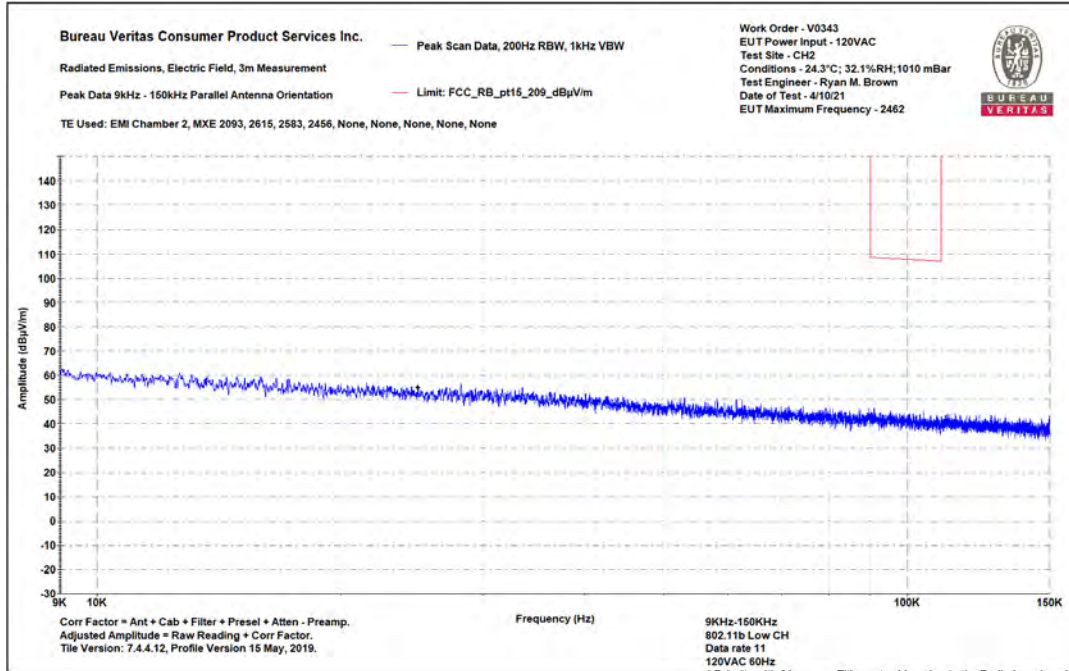
Date of Test - 4/10/21

EUT Maximum Frequency - 2462

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.1001	32.3	10.1	42.4	107.6	-65.2	PASS	
0.1096	29.55	10.1	39.65	106.7	-67.05	PASS	
0.091056	35.6	10.5	46.1	108.4	-62.3	PASS	-63.2

9 KHz – 150 KHz Parallel



9 KHz – 150 KHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Parallel 150-1000kHz

Notes:

13.56 MHz RFID

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board, and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 24.3°C; 32.1 %RH; 1010mBar

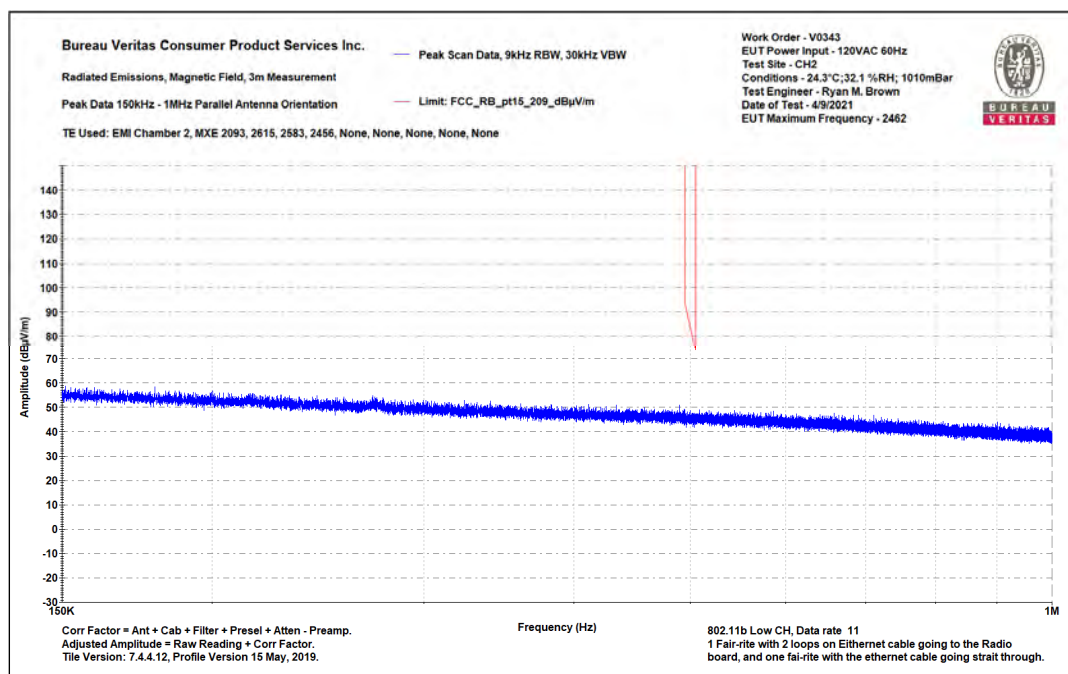
Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.4968	35.7	10.2	45.9	90	-44.1	PASS	
0.495	38.2	10.2	48.4	93.8	-45.4	PASS	
0.5015	37.2	10.2	47.4	80	-32.6	PASS	-32.6

150 KHz – 1MHz Parallel



150 KHz – 1MHz Parallel

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Magnetic Field 3m Distance

Top Peaks Perpendicular 150-1000kHz

Notes:

802.11b Low CH, Data rate 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board, and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 24.3°C; 32.1 %RH; 1010mBar

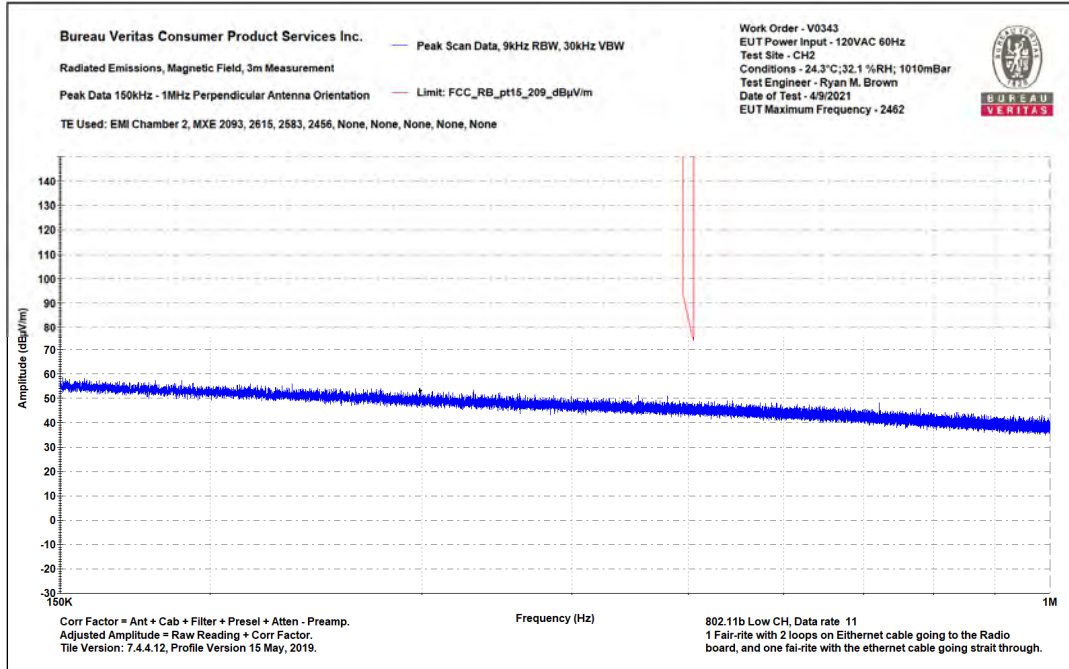
Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.5018	37.2	10.2	47.4	80	-32.6	PASS	
0.4968	36	10.2	46.2	90	-43.8	PASS	
0.505	36.1	10.2	46.3	73.5	-27.2	PASS	-27.2

150 KHz – 1 MHz Perpendicular



150 KHz – 1 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Parallel 1-30MHz

Notes:

13.56 MHz RFID

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board, and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 23.6°C; 33.4 %RH; 1007mBar

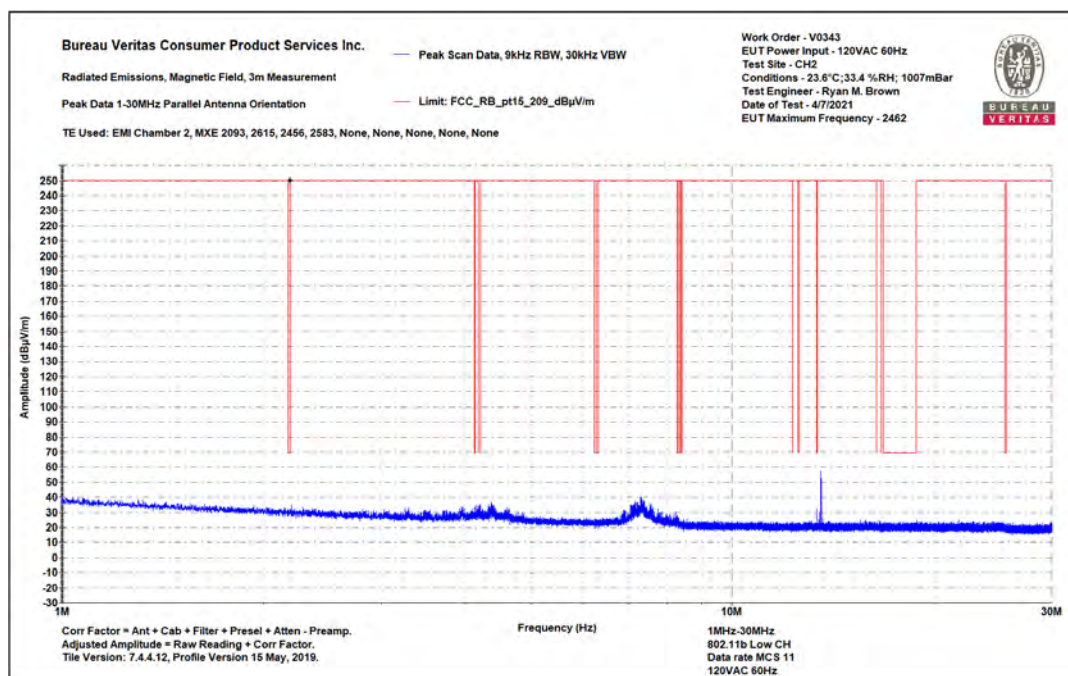
Test Engineer - Ryan M. Brown

Date of Test - 4/7/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_209_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
4.126925	19.2	10.6	38.2	65.3	-27.1	PASS	-27.1
8.29205	16.9	10.8	35	69.5	-34.6	PASS	
6.2171	12.9	10.8	36.3	69.5	-33.2	PASS	

1 MHz – 30 MHz Parallel



1 MHz – 30 MHz Parallel

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Magnetic Field 3m Distance

Top Peaks Perpendicular 1-30MHz

Notes:

802.11b Low CH, Data rate MCS 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio

board, and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 23.6°C; 33.4 %RH; 1007mBar

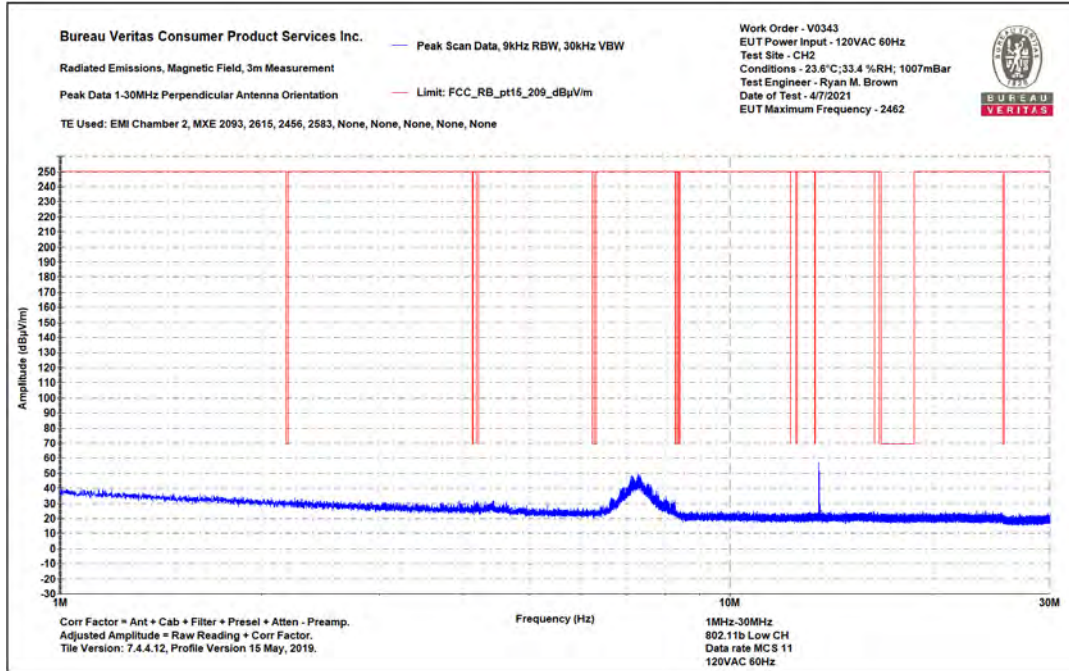
Test Engineer - Ryan M. Brown

Date of Test - 4/7/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
2.1803	20.2	10.5	30.7	69.5	-38.8	PASS	-38.8
6.2722	15.6	10.8	26.4	69.5	-43.1	PASS	
16.60925	13.7	10.9	24.6	69.5	-44.9	PASS	

1 MHz – 30 MHz Perpendicular



1 MHz – 30 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

30-1000MHz Vertical Data

Notes:

802.11b Low CH, Data Rate: 11

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

Conditions - 23.3°C; 30.5%RH; 1019mBar

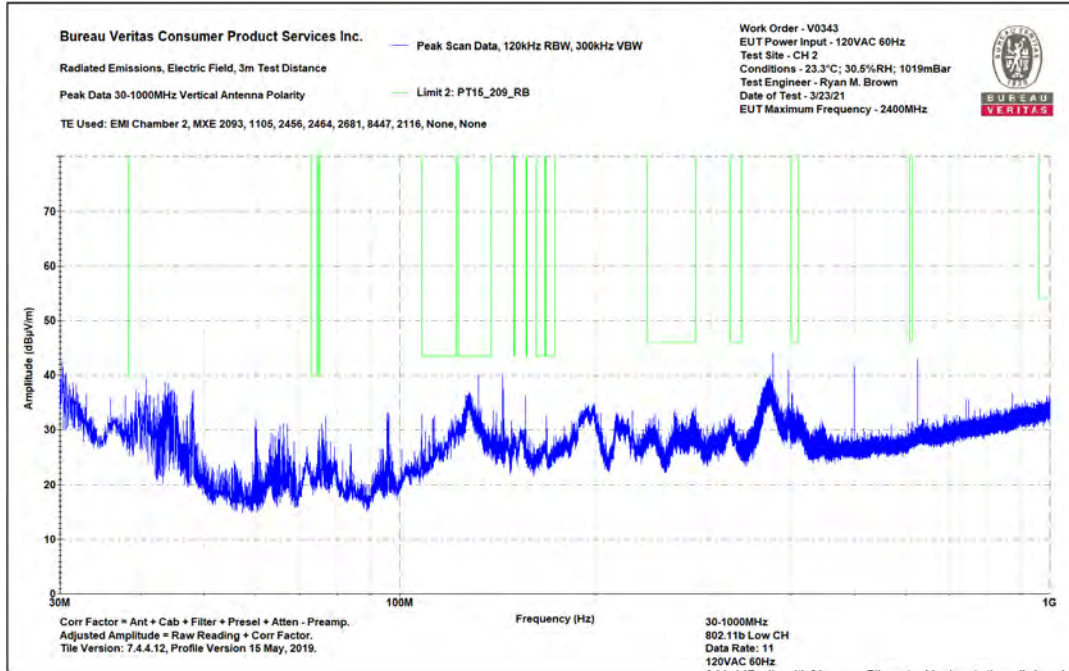
Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

EUT Maximum Frequency - 2400MHz

Frequency (MHz)	Raw QP Reading (dBμV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBμV/m)	Lim1: FCC_pt15_20 9 (dBμV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
132.04	46.2	-6.04	40.16	43.5	-3.34	PASS	-3.34	100	146
127.77	42.86	-5.9	36.96	43.5	-6.54	PASS		101	286
113.12	39.61	-7.15	32.46	43.5	-11.04	PASS		106	27
108.08	40.94	-8.04	32.9	43.5	-10.6	PASS		102	10
168.07	40.34	-7.55	32.79	43.5	-10.71	PASS		169	1
133.25	40.2	-6.07	34.13	43.5	-9.37	PASS		100	328

30 – 1000MHz Vertical



30 – 1000MHz Vertical

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

30-1000MHz Horizontal Data

Notes:

30-1000MHz

802.11b Low CH, Data Rate: 11

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

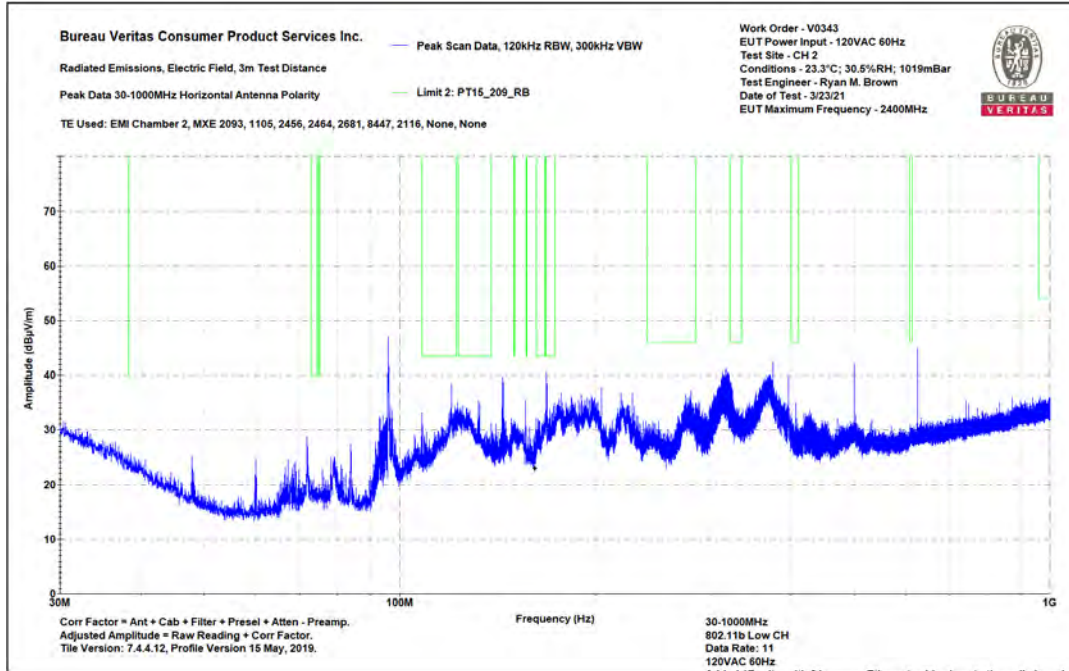
Date of Test - 3/23/21

EUT Maximum Frequency - 2462MHz

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Frequency (MHz)	Raw QP Reading (dBμV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBμV/m)	Lim1: FCC_pt15_209 (dBμV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
119.99	44.68	-6.25	38.43	43.5	-5.07	PASS		175	280
108.06	41.3	-9.24	32.06	43.5	-11.44	PASS		125	25
132.01	41.38	-6.04	35.34	43.5	-8.16	PASS		100	25
168.05	48.19	-7.55	40.64	43.5	-2.86	PASS	-2.86	125	42
132.62	40.93	-6.04	34.89	43.5	-8.61	PASS		125	25
280.47	42.42	-5.34	37.08	46	-8.92	PASS		100	37

30 – 1000MHz Horizontal



30 – 1000MHz Horizontal

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

1-6GHz Vertical Data

Notes:

802.11b Low CH, Data Rate: 11

1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

Conditions - 23.3°C; 30.5%RH; 1019mBar

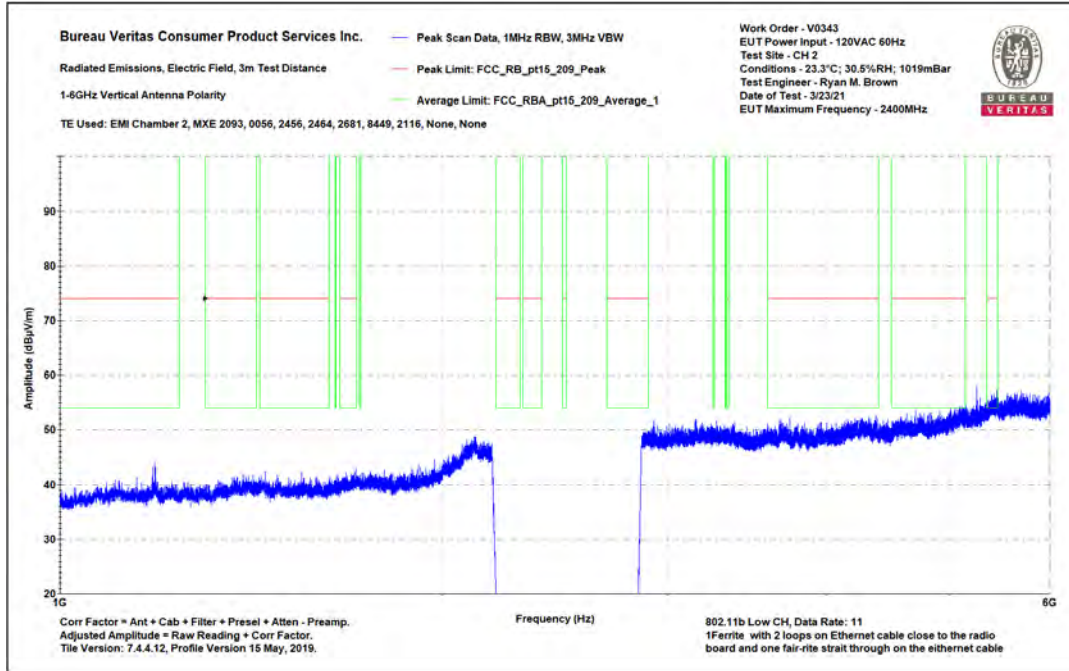
Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

EUT Maximum Frequency - 2462MHz

Frequency (MHz)	Raw Peak Reading (dBµV)	Raw Avg Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBµV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBµV/m)	Av Lim: FCC_pt15_20 9_Average (dBµV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
1188.3	47.5	36	-7	40.5	74	-33.5	PASS		29.1	54	-24.9	PASS		300	340
3743.6	41.9	33.5	6.1	48	74	-26	PASS		39.6	54	-14.4	PASS		300	6
5445.4	44.1	34.5	11.8	55.9	74	-18.1	PASS	-18.1	46.3	54	-7.7	PASS	-7.7	275	6

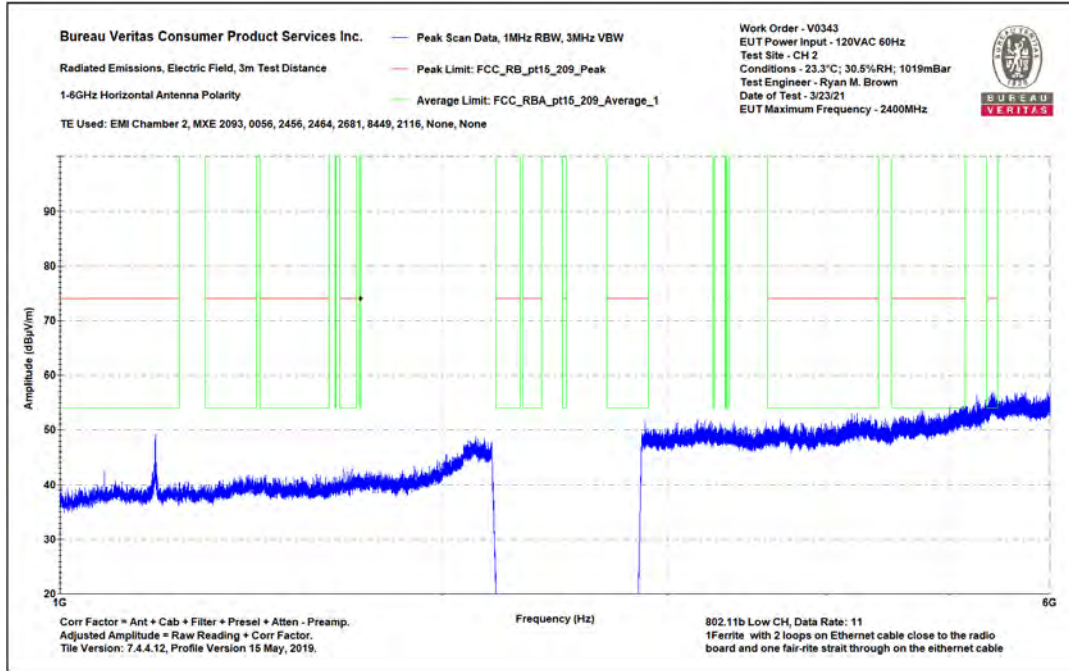
1 – 6 GHz Vertical



1 – 6 GHz Vertical

Bureau Veritas Consumer Product Services Inc.						Work Order - V0343									
Radiated Emissions Electric Field 3m Distance						EUT Power Input - 120VAC 60Hz									
1-6GHz Horizontal Data						Test Site - CH 2									
Notes:						Conditions - 23.3°C; 30.5%RH; 1019mBar									
802.11b Low CH, Data Rate: 11						Test Engineer - Ryan M. Brown									
1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable						Date of Test - 3/23/21									
						EUT Maximum Frequency - 2462MHz									
Frequency (MHz)	Raw Peak Reading (dBµV)	Raw Avg Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBµV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBµV/m)	Av Lim: FCC_pt15_20 9_Average (dBµV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Average Margin (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
1188.1	47.3	37	-7	40.3	74	-33.7	PASS		30	54	-24	PASS		25	334
4228.9	44.4	33.4	7.3	51.8	74	-22.2	PASS		40.8	54	-13.2	PASS		25	264
5007.6	45	45	8.8	53.8	74	-20.2	PASS		53.8	54	-0.2	PASS	-0.2	27	15

1 – 6 GHz Horizontal



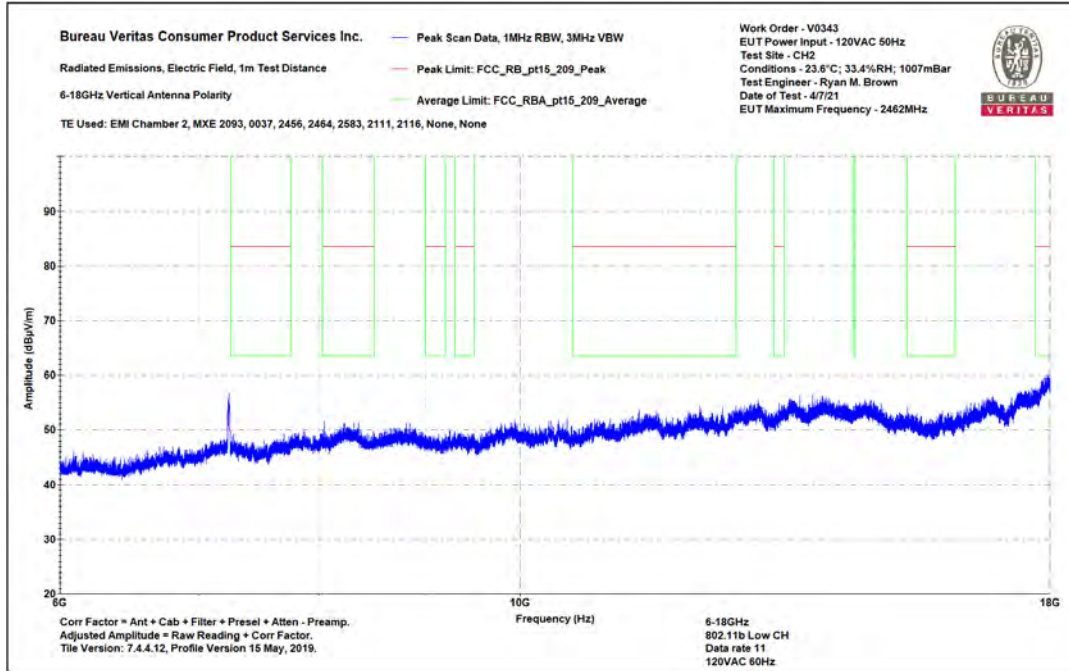
1 – 6 GHz Horizontal

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 1m Distance
6-18GHz Vertical Data
Notes:
6-18GHz
802.11b Low CH, Data Rate: 11
120VAC 60Hz

Work Order - V0343
EUT Power Input - 120VAC 50Hz
Test Site - CH2
Conditions - 23.6°C; 33.4%RH; 1007mBar
Test Engineer - Ryan M. Brown
Date of Test - 4/7/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20_9_Peak (dBμV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20_9_Average (dBμV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)
8049.3	44	35.8	2.1	46	83.5	-37.5	PASS		37.9	63.5	-25.6	PASS	
14487.3	45.8	45.8	8.4	54.2	83.5	-29.3	PASS		54.2	63.5	-9.3	PASS	-9.3
17975.7	40.7	33.2	14.3	55.1	83.5	-28.4	PASS	-28.4	47.5	63.5	-16	PASS	

6 – 18 GHz Vertical



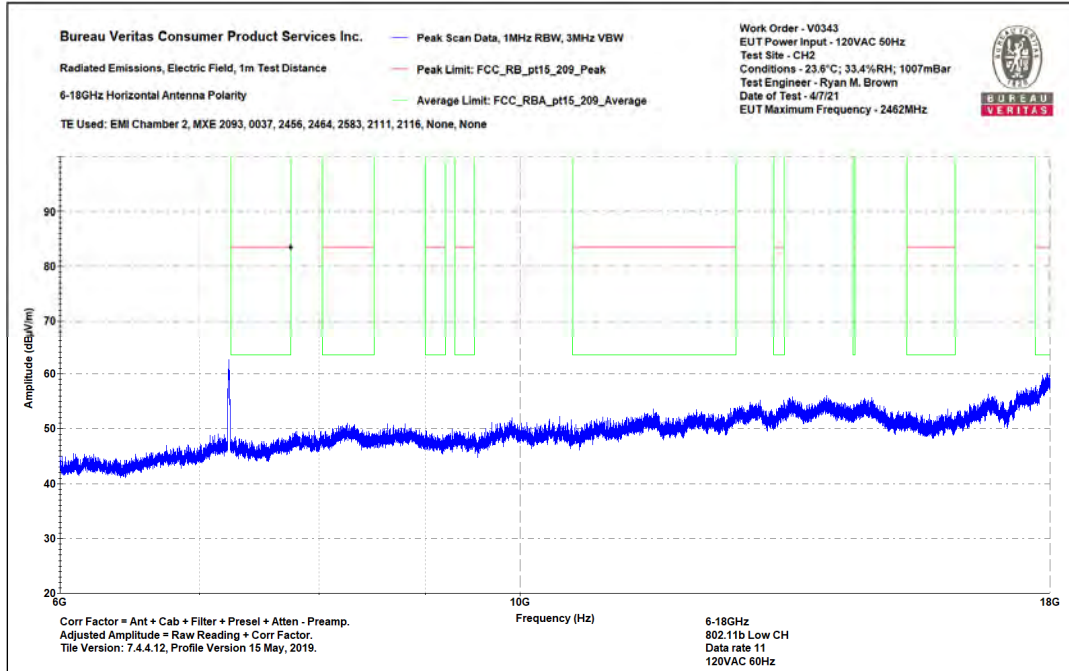
6 – 18 GHz Vertical

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 1m Distance
6-18GHz Horizontal Data
Notes:
6-18GHz
802.11b Low CH, Data Rate: 11
120VAC 60Hz

Work Order - V0343
EUT Power Input - 120VAC 50Hz
Test Site - CH2
Conditions - 23.6°C; 33.4%RH; 1007mBar
Test Engineer - Ryan M. Brown
Date of Test - 4/7/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_209_Peak (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_209_Average (dBμV/m)	Avg Margin (dB)	Avg Test Results (Pass/Fail)	Worst Avg Margin (dB)
8252.9	45.4	34.5	2.8	48.2	83.5	-35.3	PASS		37.4	63.5	-26.1	PASS	
14480.4	46	46	8.4	54.4	83.5	-29.1	PASS		54.4	63.5	-9.1	PASS	-9.1
17940.9	41.7	33	14.5	56.2	83.5	-27.3	PASS		47.4	63.5	-16.1	PASS	

6 – 18 GHz Horizontal

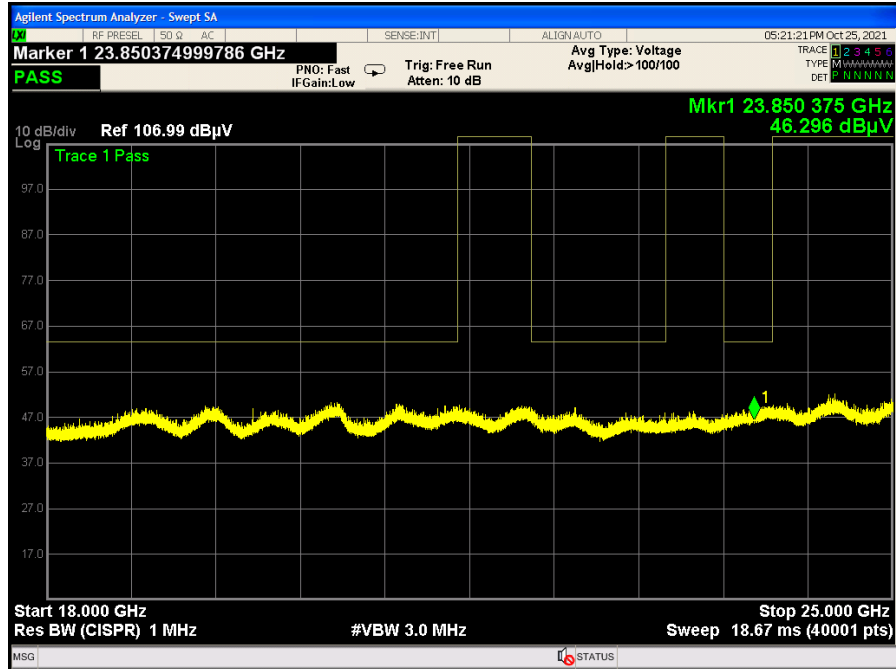


6 – 18 GHz Horizontal

Radiated Emissions Table

Date: 10-Apr-21		Company: BEVI				Work Order: V0343										
Engineer: Ryan M. Brown		EUT Desc: Standup Bevi, V2 product				EUT Operating Voltage/Frequency: 120VAC										
Temp:		Humidity:				Pressure:										
Frequency Range: 18-25GHz						Measurement Distance: 0.1 m										
Notes: 802.11b Data Rate: 11 Low Ch						EUT Max Freq: 2462										
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 Class B High Frequency - Peak			FCC Class B 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				---	---	---	---	---	---	---	---	---	---	---	---	
Table Result:		---		by		---		dB		Worst Freq:			---			MHz
Test Site: EMI Chamber 2		Cable 1: Asset #2323				Cable 2: ---			Cable 3: ---							
Analyzer: MXE 2093		Preamp: 18-26.5GHz				Antenna: 18-26.5GHz Horn			Preselector: ---							
CSsoft Radiated Emissions Calculator v 1.017.217																
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor																
Copyright Curtis-Straus LLC 2000																

18 – 25 GHz Vertical & Horizontal



18 – 25 GHz Vertical & Horizontal

802.11B Mid Channel Data Rate 11

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Parallel 9-150kHz

Notes:

802.11b MID CH, Data rate 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board, EUT Maximum Frequency - 2462
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC

Test Site - CH2

Conditions - 24.3°C; 32.1%RH; 1010 mBar

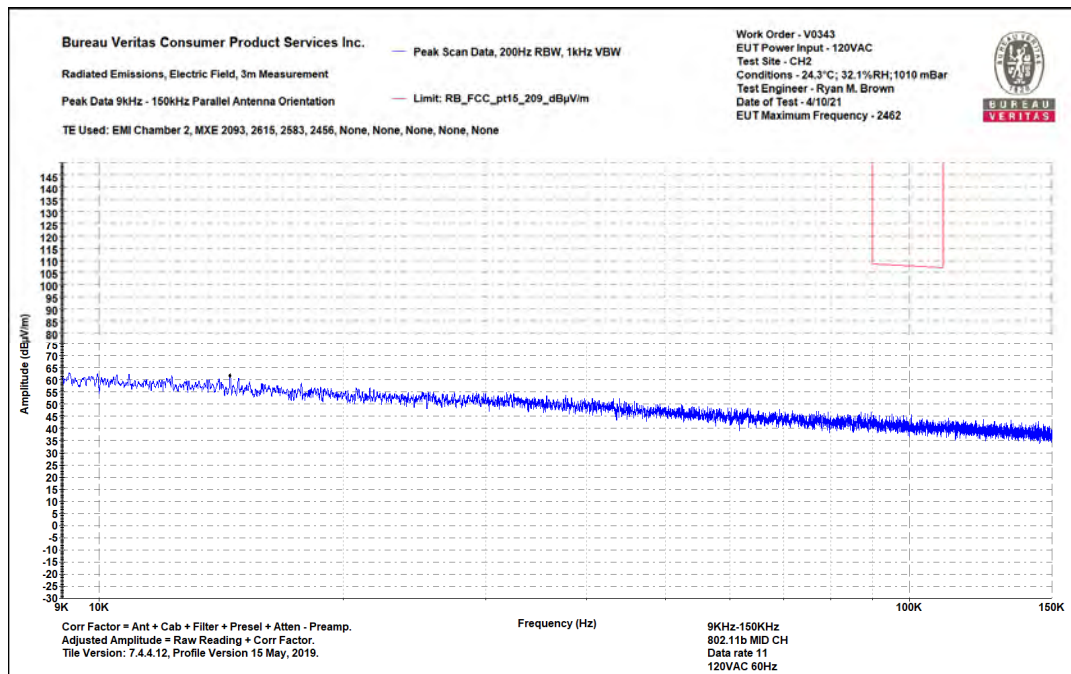
Test Engineer - Ryan M. Brown

Date of Test - 4/10/21

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.090315	34.8	10.5	46.8	108.6	-61.8	PASS	-61.8
0.100534	35.4	10.1	45.5	107.6	-62.1	PASS	
0.105155	33.3	10.1	43.4	106.6	-63.2	PASS	

9 KHz – 150 KHz Parallel



9 KHz – 150 KHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Perpendicular 9-150kHz

Notes:

802.11b MID CH, Data rate 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC

Test Site - CH2

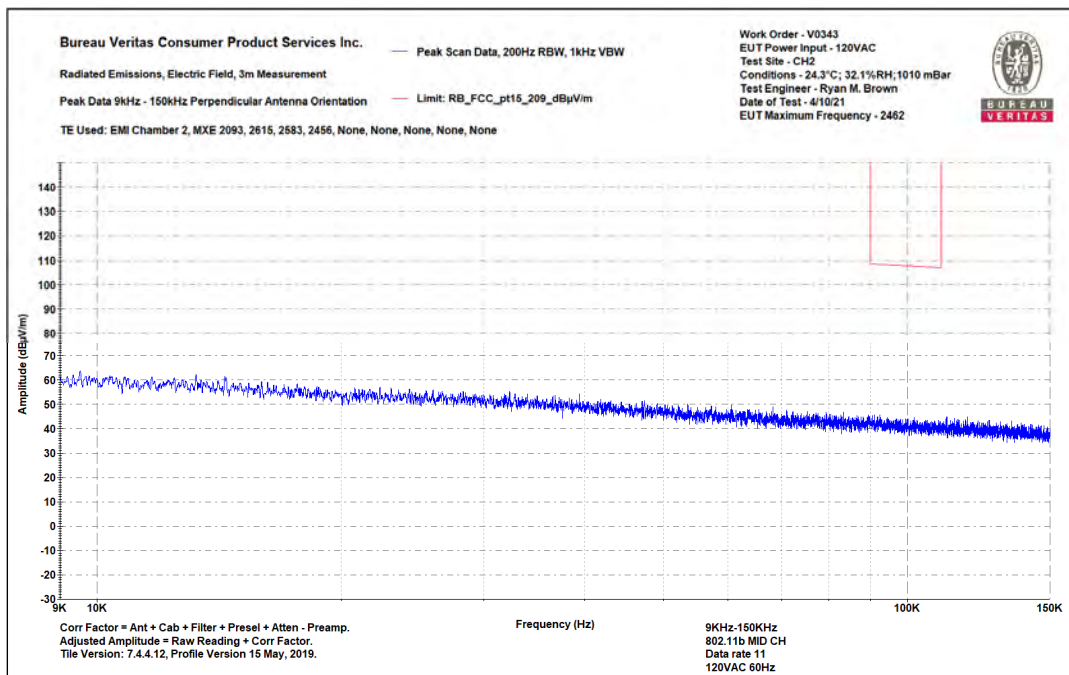
Conditions - 24.3°C; 32.1%RH; 1010 mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/10/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.109244	33.1	10.1	43.2	106.8	-63.6	PASS	
0.099955	33.7	10.1	43.8	107.6	-63.8	PASS	
0.091118	35.2	10.5	45.7	108.4	-62.7	PASS	-62.7

9 KHz – 150 KHz Perpendicular



9 KHz – 150 KHz Perpendicular

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Parallel 150-1000kHz

Notes:

802.11b MID CH, Data rate 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio
board, and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 24.3°C; 32.1 %RH; 1010mBar

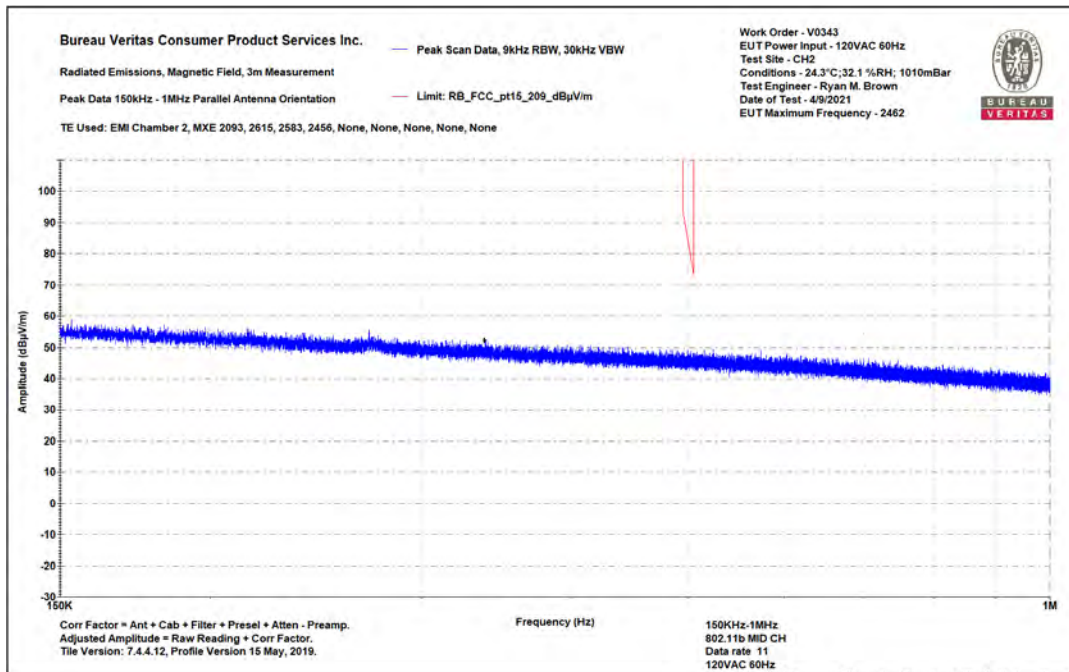
Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.495	34.3	10.2	44.5	93.8	-49.3	PASS	
0.49684	35.7	10.2	45.9	90	-44.1	PASS	
0.50173	36.7	10.2	46.9	80	-33.1	PASS	-33.1

150 KHz – 1 MHz Parallel



150 KHz – 1 MHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Perpendicular 150-1000kHz

Notes:

802.11b MID CH, Data rate 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio
board, and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 24.3°C; 32.1 %RH; 1010mBar

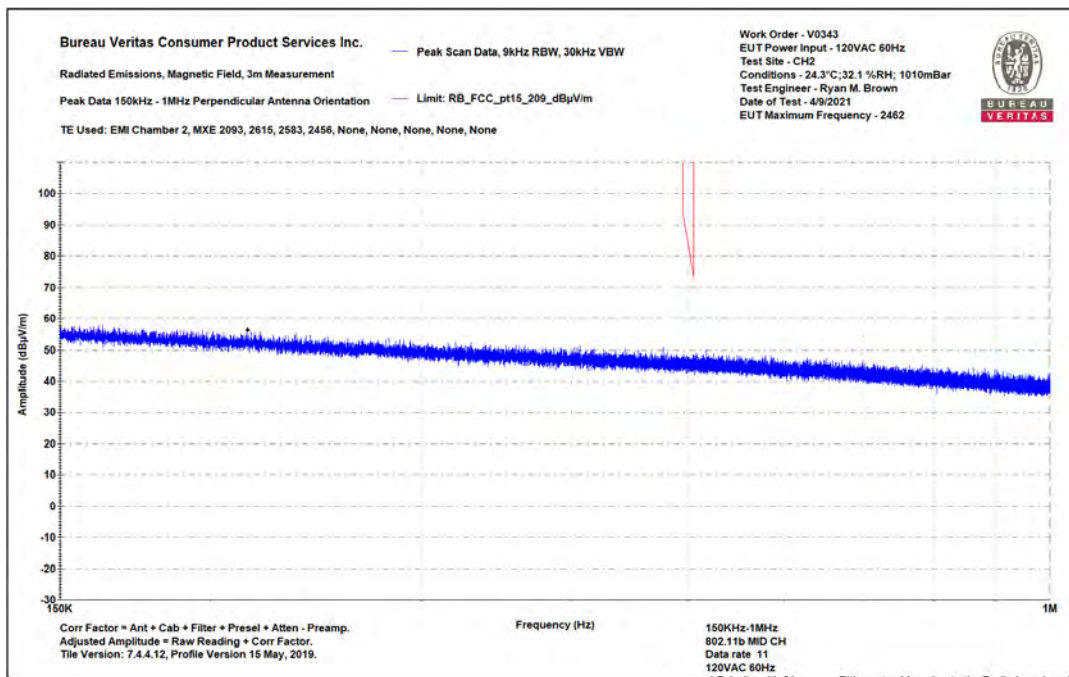
Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.495	35.1	10.2	45.3	93.8	-48.5	PASS	
0.496906	36.2	10.2	46.4	90	-43.6	PASS	
0.501858	35.6	10.2	45.8	80	-34.2	PASS	-34.2

150 KHz – 1 MHz Perpendicular



150 KHz – 1 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Parallel 1-30MHz

Notes:

802.11b MID CH, Data rate MCS 11
1 Fair-rite with 2 loops on Ethernet cable going to the Radio
board, and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 23.6°C; 33.4 %RH; 1007mBar

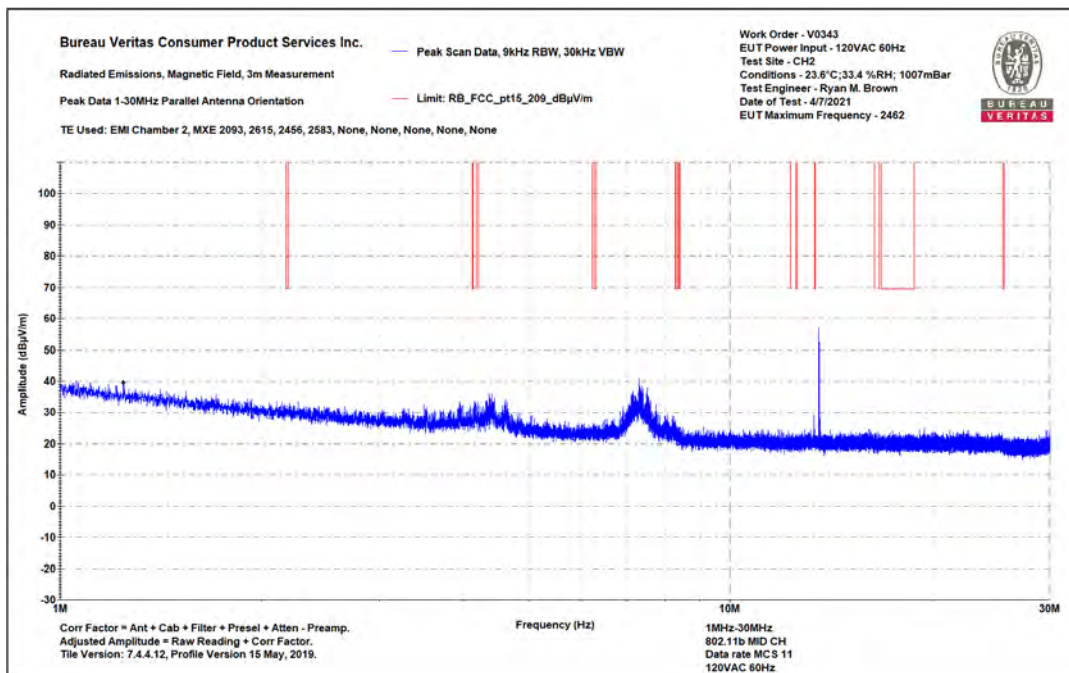
Test Engineer - Ryan M. Brown

Date of Test - 4/7/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
2.176675	21.6	10.5	32.1	69.5	-37.4	PASS	-37.4
4.177675	17	10.6	27.6	69.5	-41.9	PASS	
8.2935	14.2	10.8	25	69.5	-44.5	PASS	

1 MHz – 30MHz Parallel



1 MHz – 30 MHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Perpendicular 1-30MHz

Notes:

802.11b MID CH, Data rate MCS 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio
board, and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 23.6°C; 33.4 %RH; 1007mBar

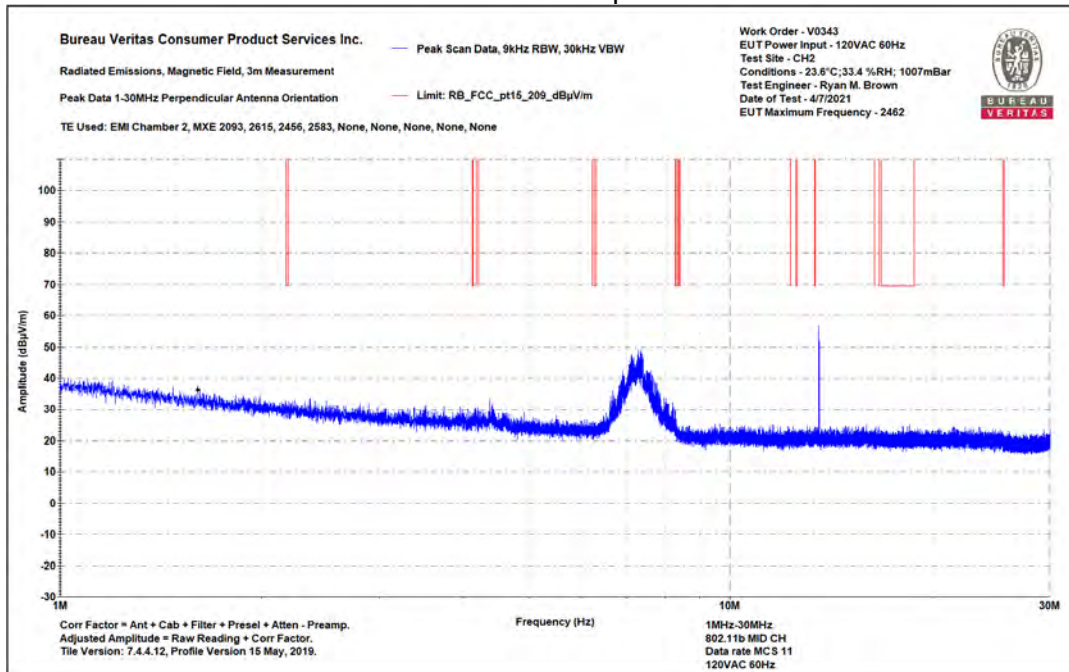
Test Engineer - Ryan M. Brown

Date of Test - 4/7/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
2.17595	21.5	10.5	32	69.5	-37.5	PASS	-37.5
6.293225	14.9	10.8	25.7	69.5	-43.8	PASS	
18.10203	13.9	10.7	24.6	69.5	-44.9	PASS	

1 MHz – 30 MHz Perpendicular



1 MHz – 30 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

30-1000MHz Vertical Data

Notes:

802.11b MID CH; Data Rate: 11

Added 1 Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

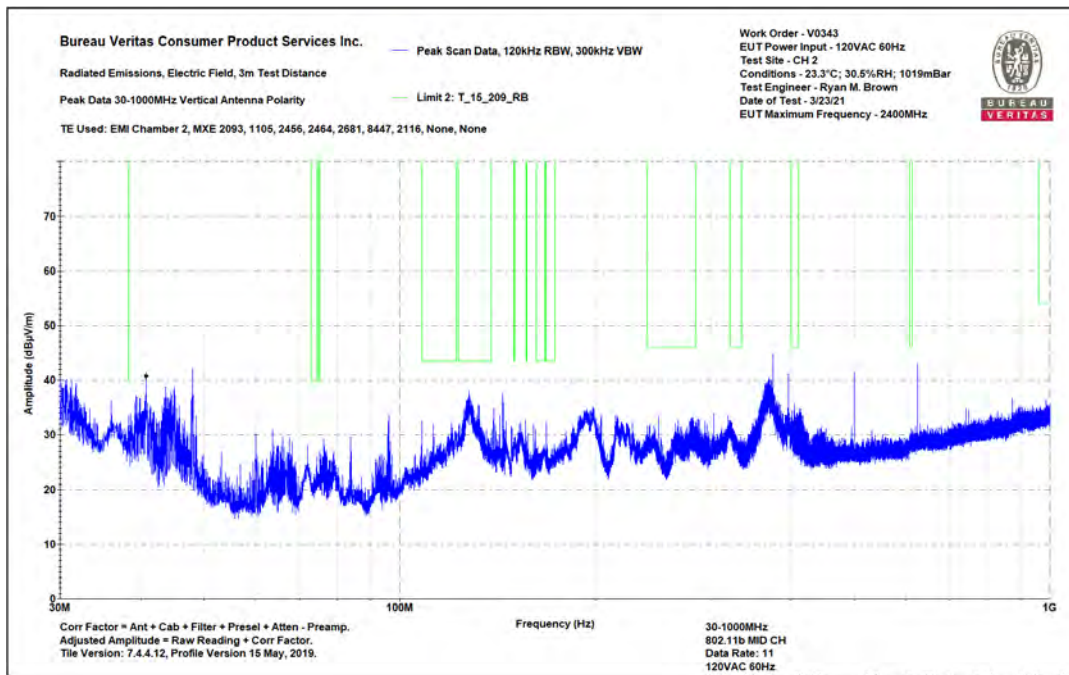
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw QP Reading (dBμV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBμV/m)	Lim1: FCC_pt15_209 (dBμV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
108.01	40.63	-4.06	36.57	43.5	-6.93	PASS	-6.93	100	92
112.54	39.19	-7.26	31.93	43.5	-11.57	PASS		148	245
127.72	43.93	-5.9	38.03	43.5	-5.47	PASS		126	25
132.01	41.6	-6.03	35.57	43.5	-7.93	PASS		103	24
168.07	39.92	-7.55	32.37	43.5	-11.13	PASS		216	317
167.88	39.9	-7.53	32.37	43.5	-11.13	PASS		119	7

30 – 1000 MHz Vertical



30 – 1000 MHz Vertical



Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

30-1000MHz Horizontal Data

Notes:

802.11b MID CH

Data Rate: 11

Added 1 Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

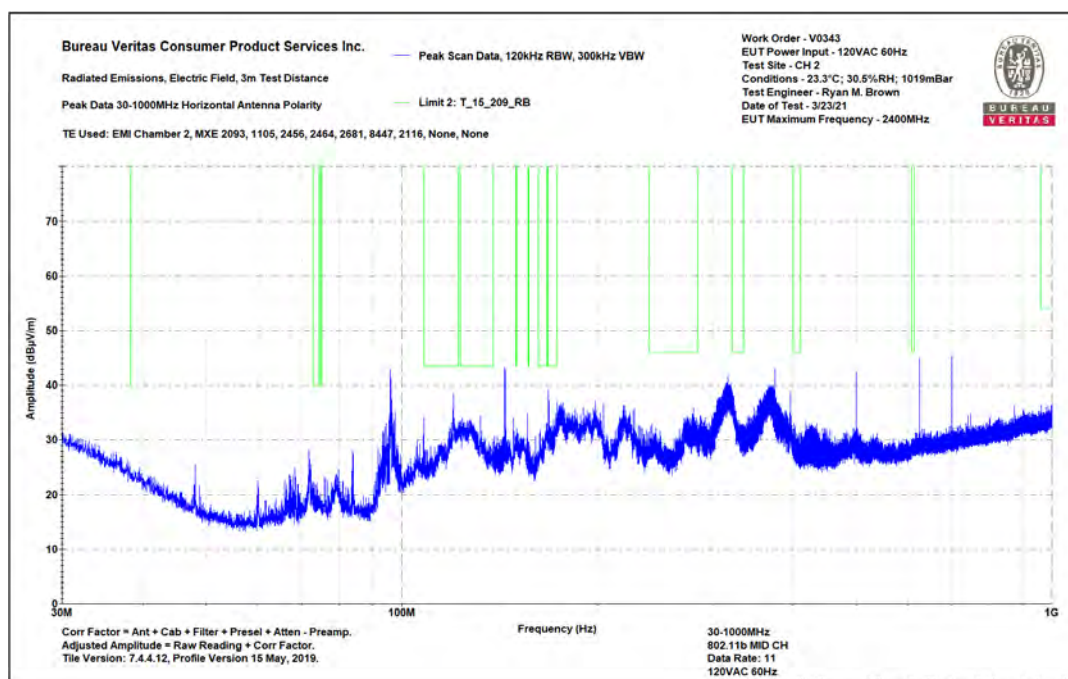
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw QP Reading (dBμV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBμV/m)	Lim1: FCC_pt15_209 (dBμV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
108.1	40.97	-8.03	32.94	43.5	-10.56	PASS		244	260
120.04	44.62	-6.25	38.37	43.5	-5.13	PASS		133	295
132.09	40.38	-6.04	34.34	43.5	-9.16	PASS		125	25
280.98	41.16	-5.34	35.82	46	-10.18	PASS		101	0
167.93	46.83	-7.54	39.29	43.5	-4.21	PASS	-4.21	201	131
168.07	46.39	-7.55	38.84	43.5	-4.66	PASS		247	262

30 – 1000 MHz Horizontal



30 – 1000 MHz Horizontal



Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 3m Distance

1-6GHz Vertical Data

Notes:

802.11b Mid CH, Data Rate: 11

1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

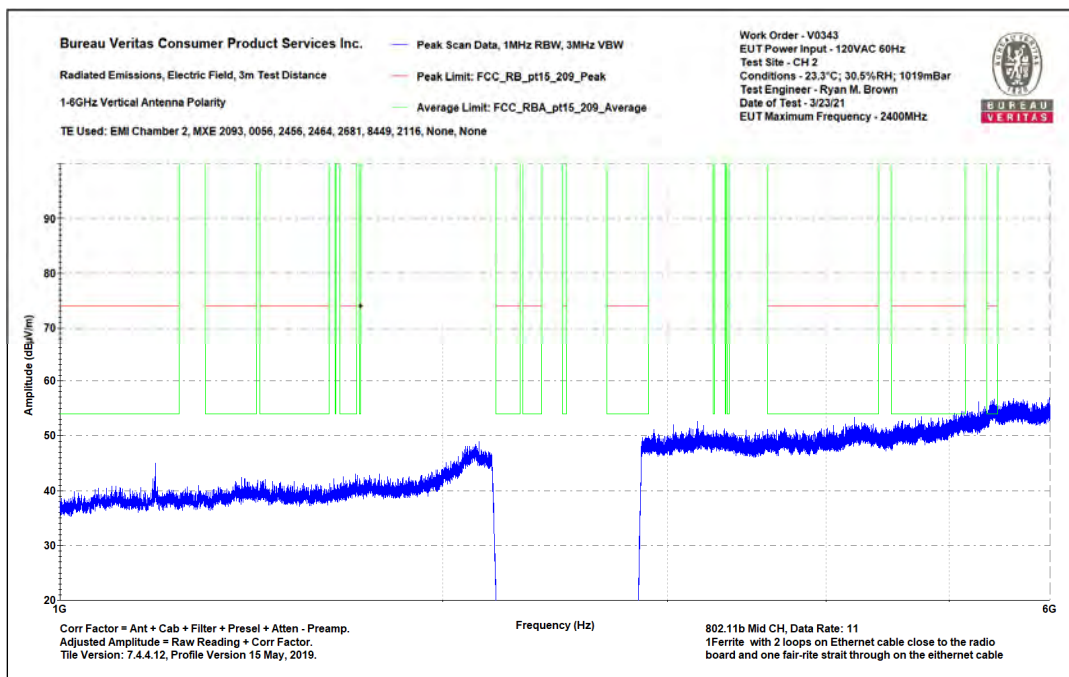
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)
1188	48.5	36.7	-7	41.6	74	-32.4	PASS		29.8	54	-24.2	PASS	
4207.8	43.4	33.4	7.3	50.6	74	-23.4	PASS		40.7	54	-13.3	PASS	
4701.375	45.4	45.4	7.7	53.1	74	-20.9	PASS	-20.9	53.1	54	-0.9	PASS	-0.9

1 – 6 GHz Vertical



1 – 6 GHz Vertical

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 3m Distance

1-6GHz Horizontal Data

Notes:

802.11b Mid CH, Data Rate: 11

1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Average Margin (dB)
1188	54.7	39.6	-7	47.8	74	-26.2	PASS		32.7	54	-21.3	PASS	
4895.875	44.9	44.9	8.4	53.3	74	-20.7	PASS		53.3	54	-0.7	PASS	-0.7
5408.8	43.1	34.4	12.1	55.2	74	-18.8	PASS	-18.8	46.5	54	-7.5	PASS	

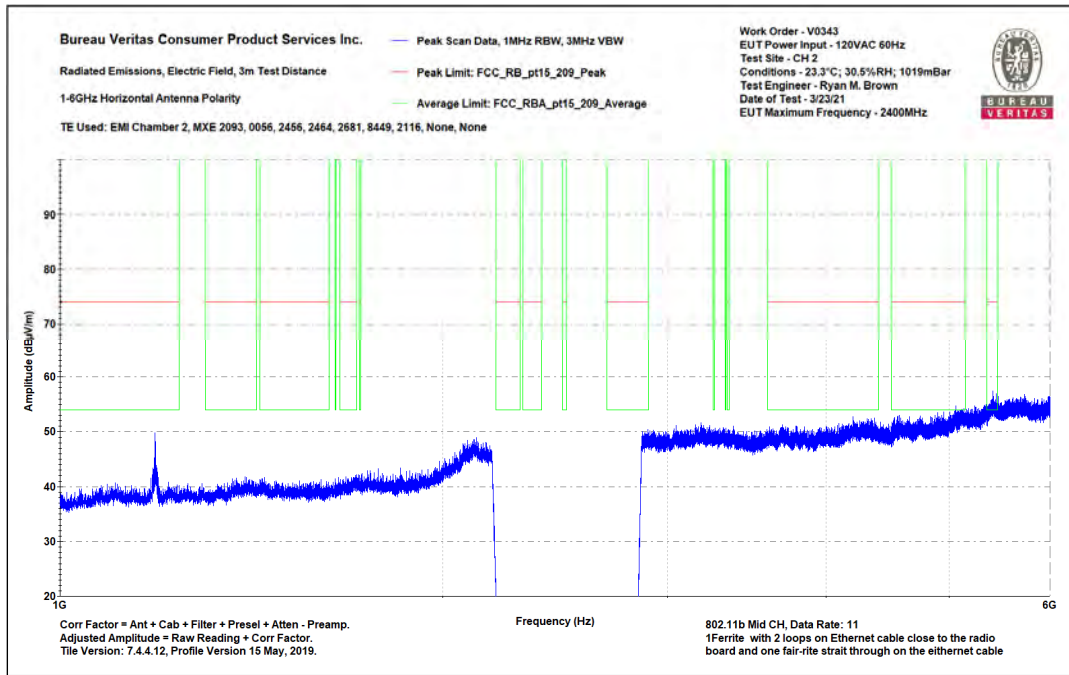
1 – 6 GHz Horizontal



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1 – 6 GHz Horizontal

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 1m Distance

6-18GHz Vertical Data

Notes:

6-18GHz, 802.11b Mid CH

Data rate 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board, and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 50Hz

Test Site - CH2

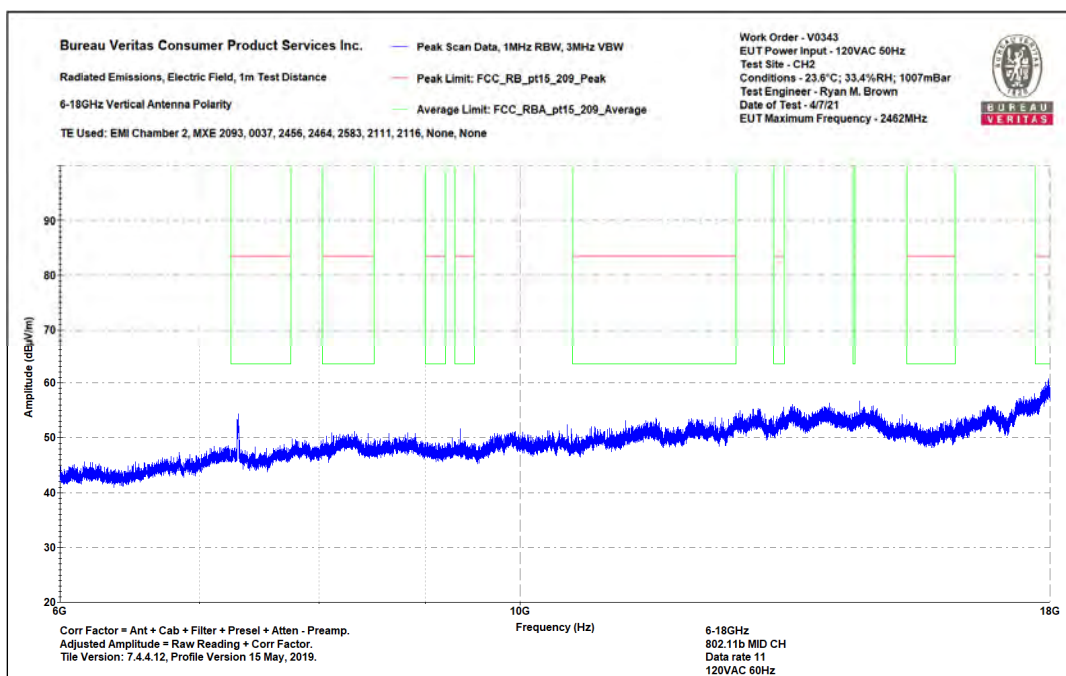
Conditions - 23.6°C; 33.4%RH; 1007mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/7/21

Frequency (MHz)	Raw Peak Reading (dBµV)	Raw Avg Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Pk Lim: FCC_pt15_209_Peak (dBµV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBµV/m)	Av Lim: FCC_pt15_209_Average (dBµV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)
7312.8	46	36.9	0.9	46.8	83.5	-36.7	PASS		37.8	63.5	-25.7	PASS	
9354.6	43.7	34.6	3.1	46.8	83.5	-36.7	PASS		37.8	63.5	-25.7	PASS	
17979.1	42.7	33.2	14.3	57	83.5	-26.5	PASS	-26.5	47.5	63.5	-16	PASS	-16

6 – 18 GHz Vertical



6 – 18 GHz Vertical

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 1m Distance

6-18GHz Horizontal Data

Notes:

6-18GHz, 802.11b Mid CH

Data rate 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board, and one
fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 50Hz

Test Site - CH2

Conditions - 23.6°C; 33.4%RH; 1007mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/7/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Test Results (Pass/Fail)	Worst Avg Margin (dB)
7311.7	60.4	49.5	0.9	61.3	83.5	-22.2	PASS	-22.2	50.4	63.5	-13.1	PASS	
12239.4	48.7	48.7	5.1	53.8	83.5	-29.7	PASS		53.8	63.5	-9.7	PASS	-9.7
17946.3	41.5	33.1	14.5	56	83.5	-27.5	PASS		47.6	63.5	-15.9	PASS	

6 – 18 GHz Horizontal

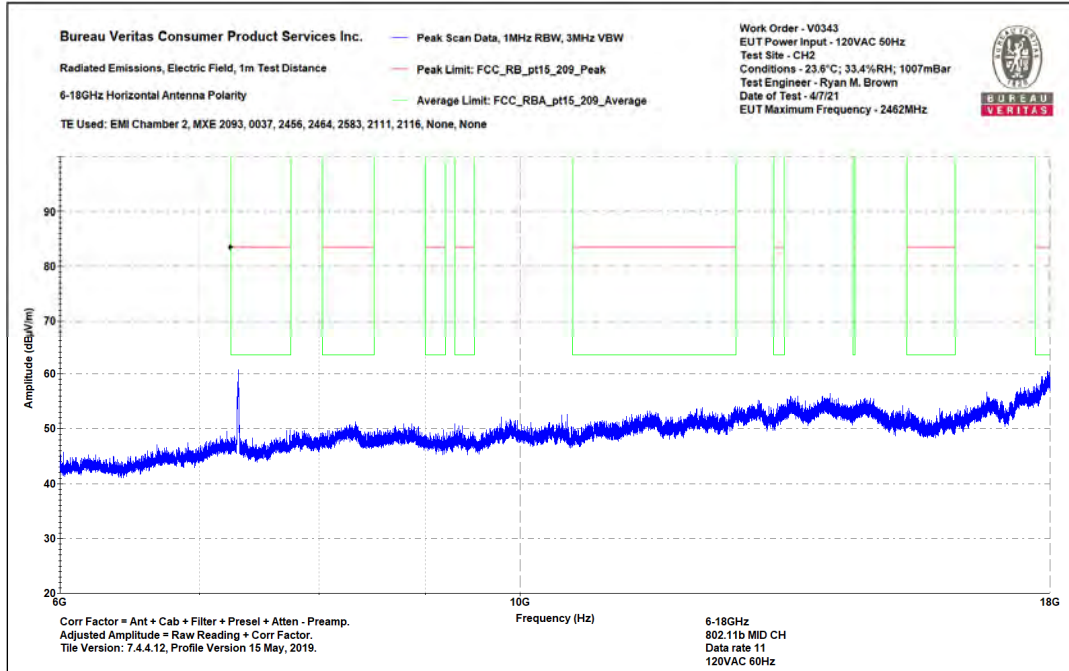


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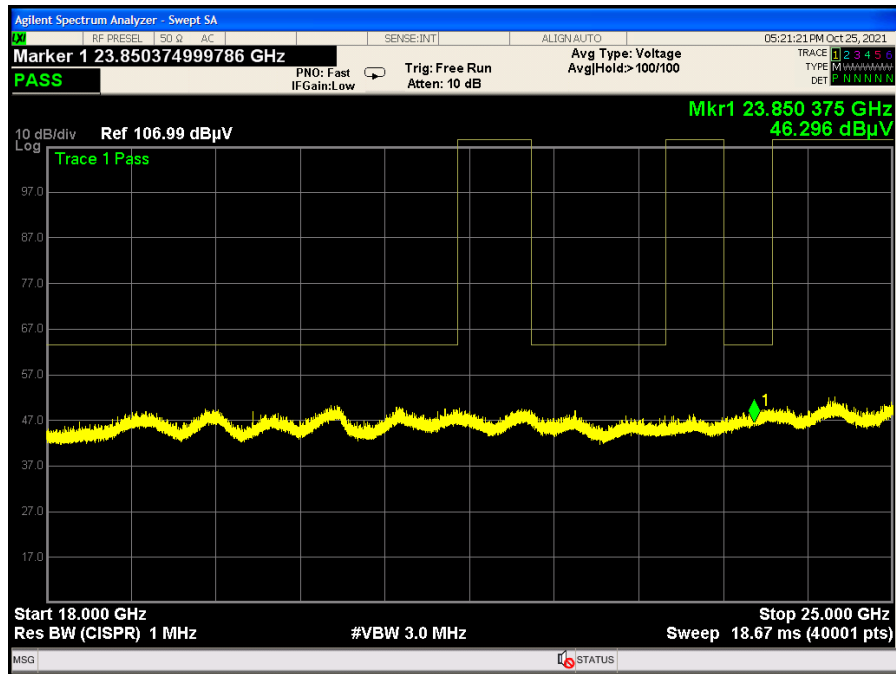


6 – 18 GHz Horizontal

Radiated Emissions Table

Date: 10-Apr-21				Company: BEVI				Work Order: V0343							
Engineer: Ryan M. Brown				EUT Desc: Standup Bevi, V2 product				EUT Operating Voltage/Frequency: 120VAC							
Temp: 24.3				Humidity: 32%				Pressure: 1010							
Frequency Range: 18-25GHz								Measurement Distance: 0.1 m							
Notes: 802.11b Data Rate: 11 MID Ch								EUT Max Freq: 2462							
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 Class B High Frequency - Peak			FCC Class B 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				---	---	---	---	---	---	---	---	---	---	---	---
Table Result:				---		by		---		dB		Worst Freq: --- MHz			
Test Site: EMI Chamber 2				Cable 1: Asset #2323				Cable 2: ---				Cable 3: ---			
Analyzer: Rental SA#1				Preamp: 18-26.5GHz				Antenna: 18-26.5GHz Horn				Preselector: ---			
CSsoft Radiated Emissions Calculator v 1.017.217															
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor															
Copyright Curtis-Struss LLC 2000															

18 – 25 GHz



18 – 25 GHz

802.11B High Channel Data Rate 11

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Parallel 9-150kHz

Notes:

802.11b High CH, Data rate 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board, and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC

Test Site - CH2

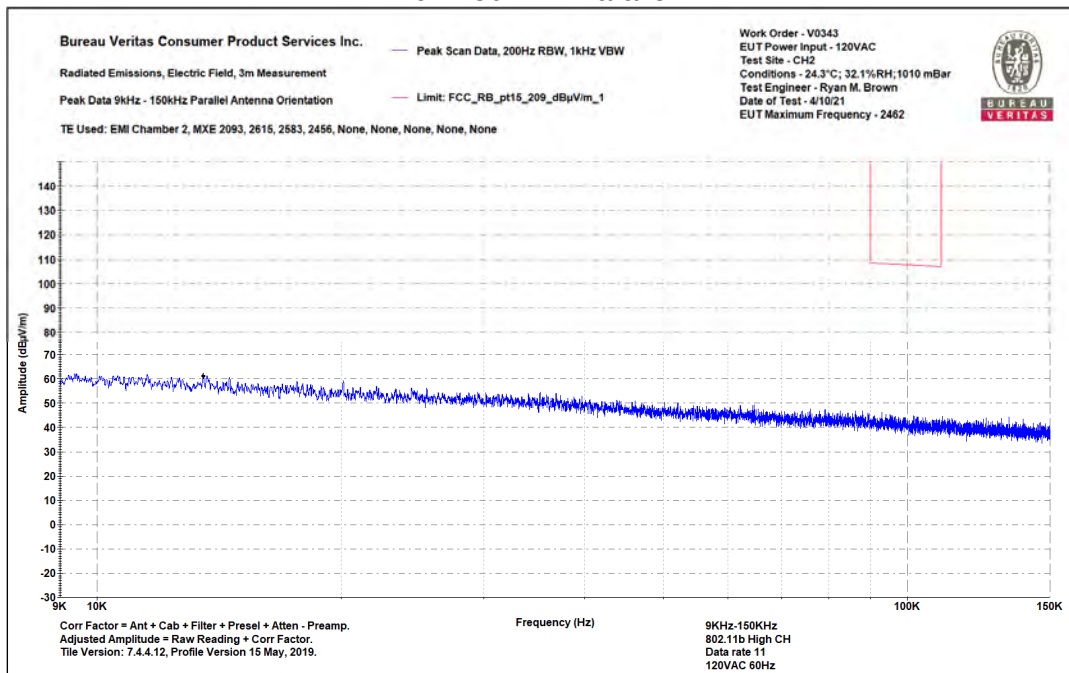
Conditions - 24.3°C; 32.1%RH; 1010 mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/10/21

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.092991	35.6	10.4	46	108.2	-62.2	PASS	-62.2
0.1	29.4	10.1	39.5	107.6	-68.1	PASS	
0.11	31.7	10.1	41.8	106.7	-64.9	PASS	

9 - 150 KHz Parallel**9 – 150 KHz Parallel**

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions, Electric Field, 3m Measurement

Top Peaks Perpendicular 9-150kHz

Notes:

802.11b High CH, Data rate 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio

board, and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC

Test Site - CH2

Conditions - 24.3°C; 32.1%RH;1010 mBar

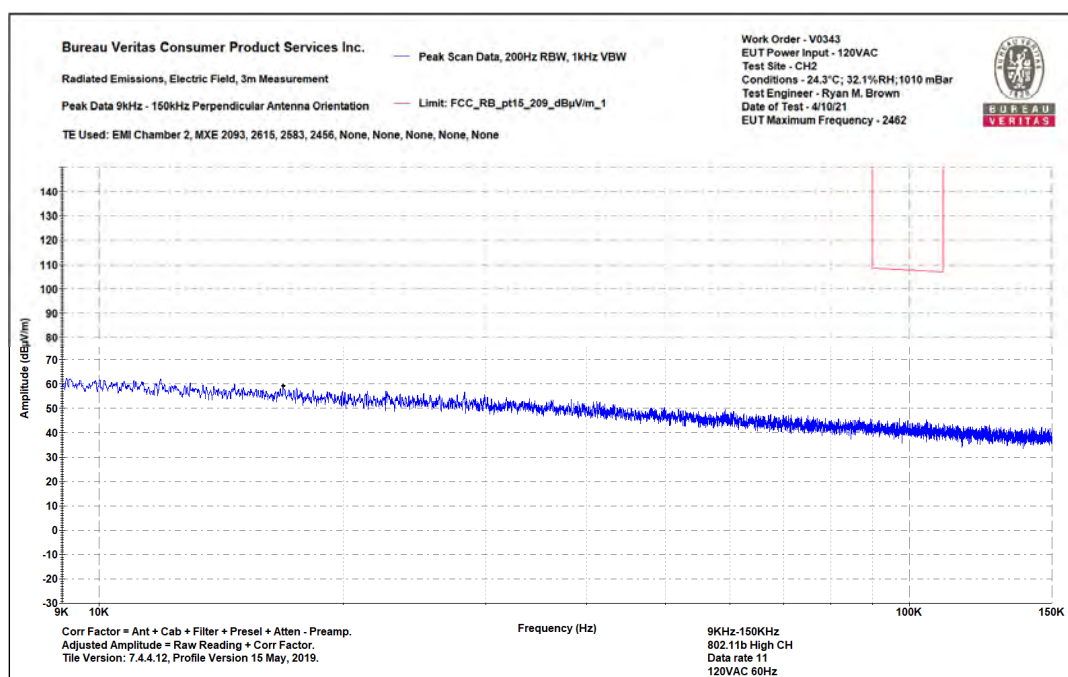
Test Engineer - Ryan M. Brown

Date of Test - 4/10/21

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.097276	35.6	10.2	45.8	107.9	-62.1	PASS	
0.09007	32.8	10.5	43.3	108.5	-65.2	PASS	
0.104911	35	10.1	45.1	107.1	-62	PASS	-62

9 – 150 KHz Perpendicular



9 – 150 KHz Perpendicular



Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Parallel 150-1000kHz

Notes:

802.11b High CH, Data rate 11
1 Fair-rite with 2 loops on Ethernet cable going to the Radio
board, and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 24.3°C; 32.1 %RH; 1010mBar

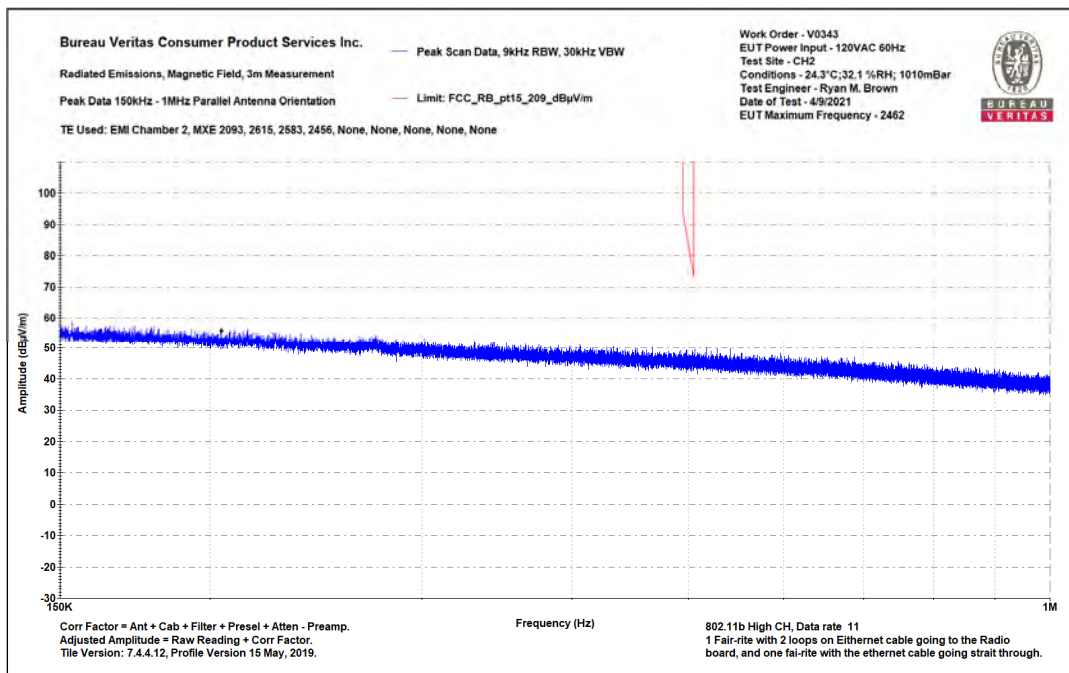
Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.495	36.4	10.2	46.6	93.8	-47.2	PASS	
0.4968	35.7	10.2	45.9	90	-44.1	PASS	
0.5016	34.9	10.2	45.1	80	-34.9	PASS	-34.9

150 KHz – 1 MHz Parallel



150 KHz – 1 MHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Perpendicular 150-1000kHz

Notes:

802.11b High CH, Data rate 11
1 Fair-rite with 2 loops on Ethernet cable going to the Radio
board, and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 24.3°C; 32.1 %RH; 1010mBar

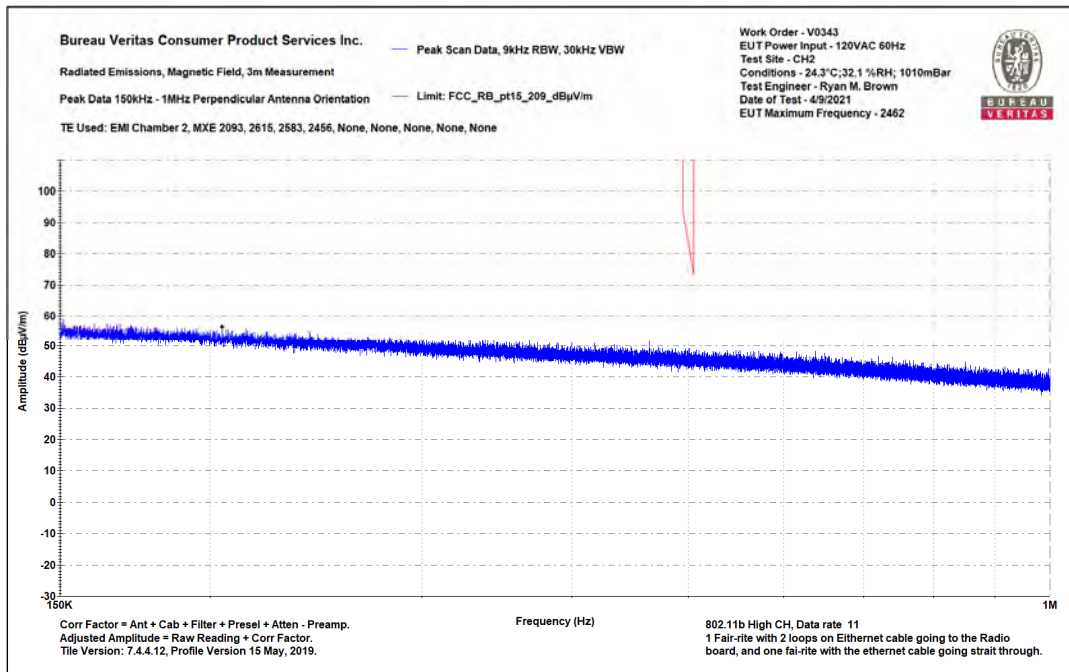
Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_209_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.505	35.7	10.2	45.9	73.5	-27.6	PASS	-27.6
0.4969	37.1	10.2	47.3	90	-42.7	PASS	
0.50147	37.4	10.2	47.6	80	-32.4	PASS	

150 KHz – 1 MHz Perpendicular



150KHz – 1 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Parallel 1-30MHz

Notes:

802.11b High CH, Data rate MCS 11
1 Fair-rite with 2 loops on Ethernet cable going to the Radio
board, and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 24.3°C; 32.1 %RH; 1010mBar

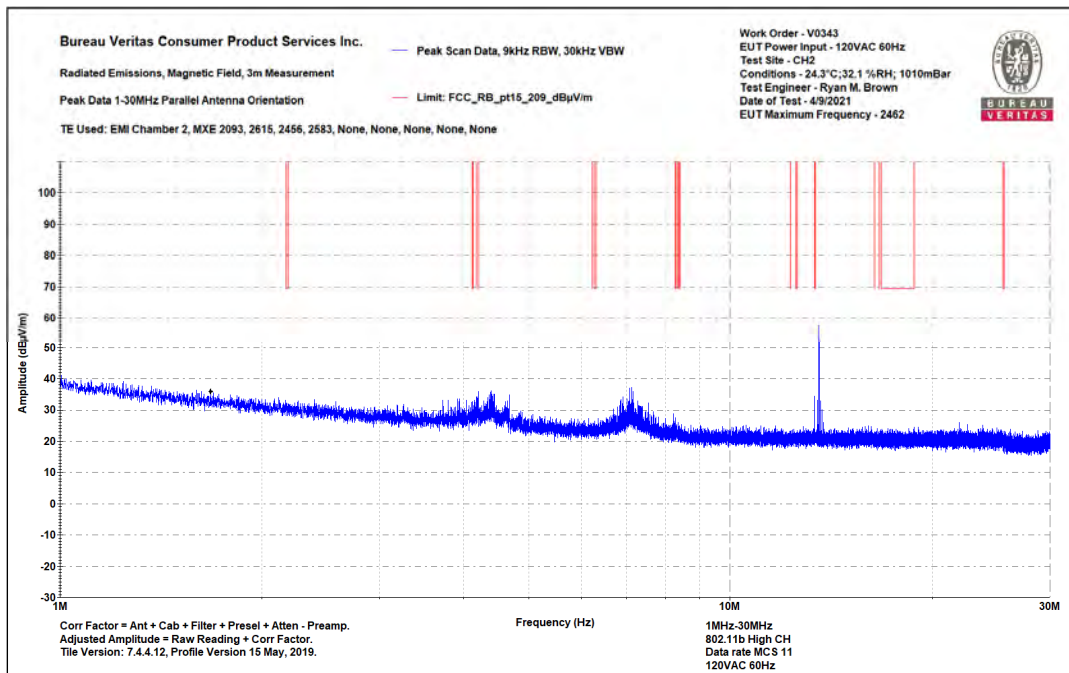
Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
2.1803	21.1	10.5	31.6	69.5	-37.9	PASS	-37.9
4.125475	18.2	10.6	28.8	69.5	-40.7	PASS	
8.292775	12.2	10.8	23	69.5	-46.5	PASS	

1 – 30 MHz Parallel



1 – 30 MHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Perpendicular 1-30MHz

Notes:

802.11b High CH, Data rate MCS 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board, and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

Conditions - 24.3°C; 32.1 %RH; 1010mBar

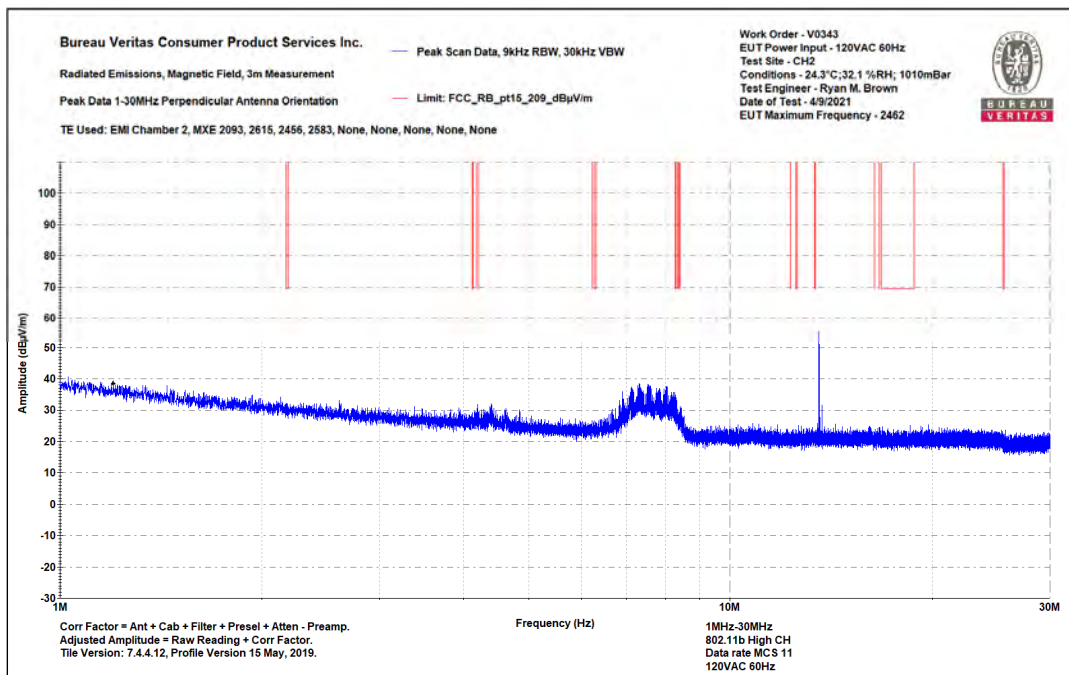
Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

EUT Maximum Frequency - 2462

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
2.176675	21.5	10.5	32	69.5	-37.5	PASS	-37.5
4.177675	18.4	10.6	29	69.5	-40.5	PASS	
8.291325	19.4	10.8	30.2	69.5	-39.3	PASS	

1 – 30 MHz Perpendicular



1 – 30 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

30-1000MHz Vertical Data

Notes:

30-1000MHz, 802.11b High CH & 13.56MHz RFID

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

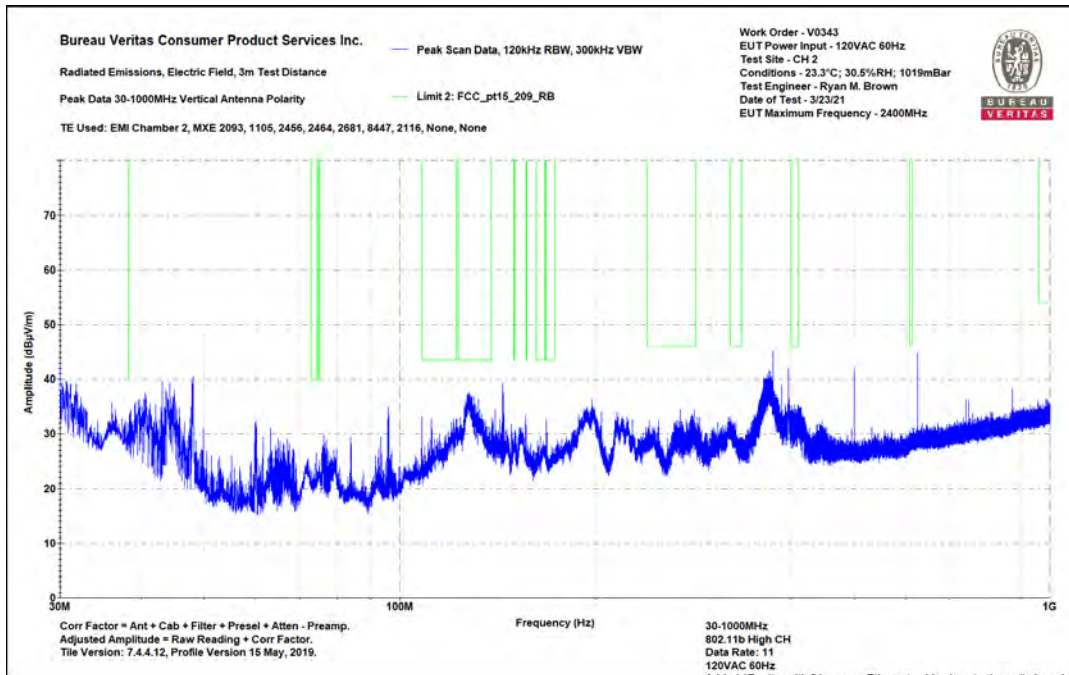
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw QP Reading (dBμV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBμV/m)	Lim1: FCC_pt15_209 (dBμV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
108.03	41.27	-8.04	33.23	43.5	-10.27	PASS		125	70
111.69	40.14	-7.4	32.74	43.5	-10.76	PASS		195	294
127.67	43.56	-5.9	37.66	43.5	-5.84	PASS	-5.84	111	9
131.97	42.37	-6.03	36.34	43.5	-7.16	PASS		175	1
168.05	40.27	-7.55	32.72	43.5	-10.78	PASS		126	351
269.56	40.2	-5.7	34.5	46	-11.5	PASS		116	313

30 – 1000 MHz Vertical



30 – 1000 MHz Vertical

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 3m Distance
30-1000MHz Horizontal Data

Notes:

802.11b High CH

Data Rate: 11

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

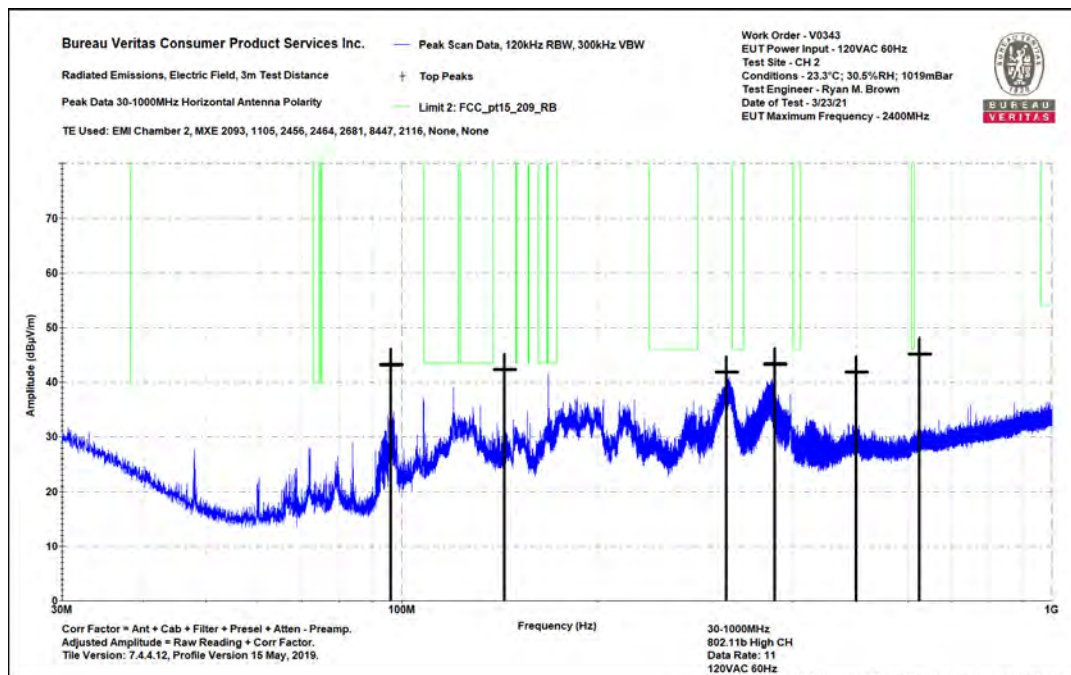
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw QP Reading (dBμV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBμV/m)	Lim1: FCC_pt15_209 (dBμV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
108.3	36.97	-3.74	33.23	43.5	-10.27	PASS		193	292
111.69	33.42	-0.68	32.74	43.5	-10.76	PASS		189	270
127.67	36.72	0.94	37.66	43.5	-5.84	PASS	-5.84	125	15
130.15	38.08	-1.48	36.6	43.5	-6.9	PASS		125	25
168.05	44.84	-12.12	32.72	43.5	-10.78	PASS		103	25
269.56	32.46	2.04	34.5	46	-11.5	PASS		198	134

30 – 1000 MHz Horizontal



30 – 1000 MHz Horizontal

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

1-6GHz Vertical Data

Notes:

1-6GHz, 802.11b High CH

Data Rate: 11

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

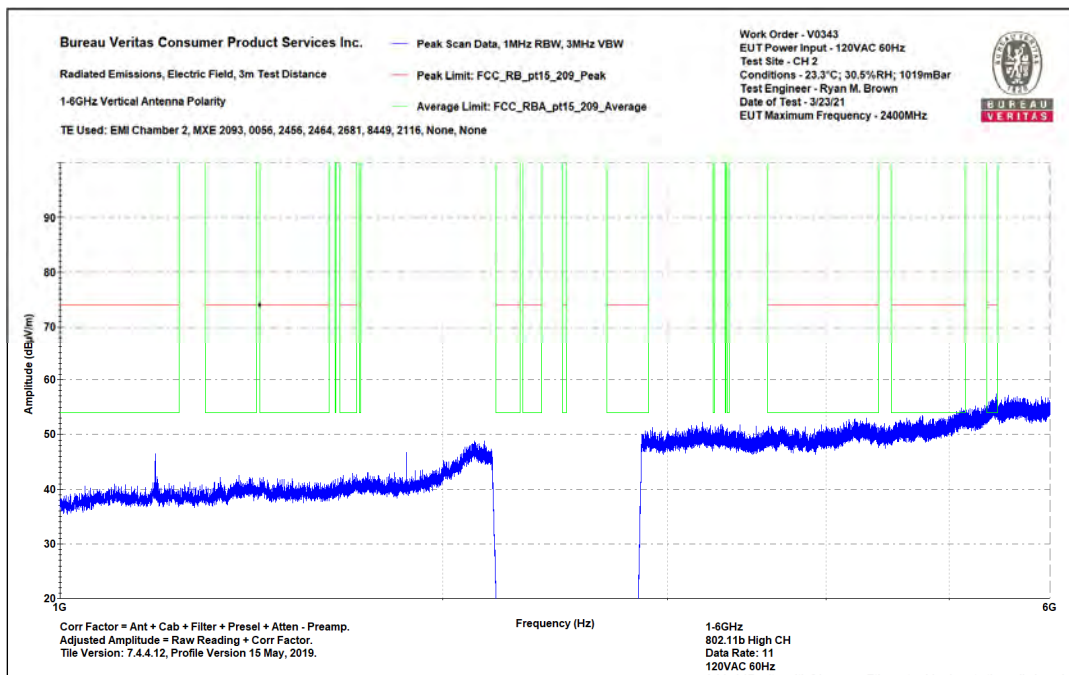
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
1188.3	50.8	37.2	-7	43.9	74	-30.1	PASS		30.3	54	-23.7	PASS		275	204
1872.1	43.5	34.6	-4.1	39.5	74	-34.5	PASS		30.5	54	-23.5	PASS		225	25
2115	44.7	35.6	1.5	46.2	74	-27.8	PASS		37.1	54	-16.9	PASS		225	35
5444.1	42.6	34.6	11.8	54.4	74	-19.6	PASS	-19.6	46.3	54	-7.7	PASS	-7.7	275	35

1 – 6 GHz Vertical



1 – 6 GHz Vertical

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

1-6GHz Vertical Data

Notes:

1-6GHz, 802.11b High CH

Data Rate: 11

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)
1188.3	50.8	37.2	-7	43.9	74	-30.1	PASS		30.3	54	-23.7	PASS	
4759.3	45.7	45.7	7.8	53.5	74	-20.5	PASS	-20.5	53.5	54	-0.5	PASS	-0.5
5444.1	42.6	34.6	11.8	54.4	74	-19.6	PASS		46.3	54	-7.7	PASS	

1 – 6GHz Horizontal

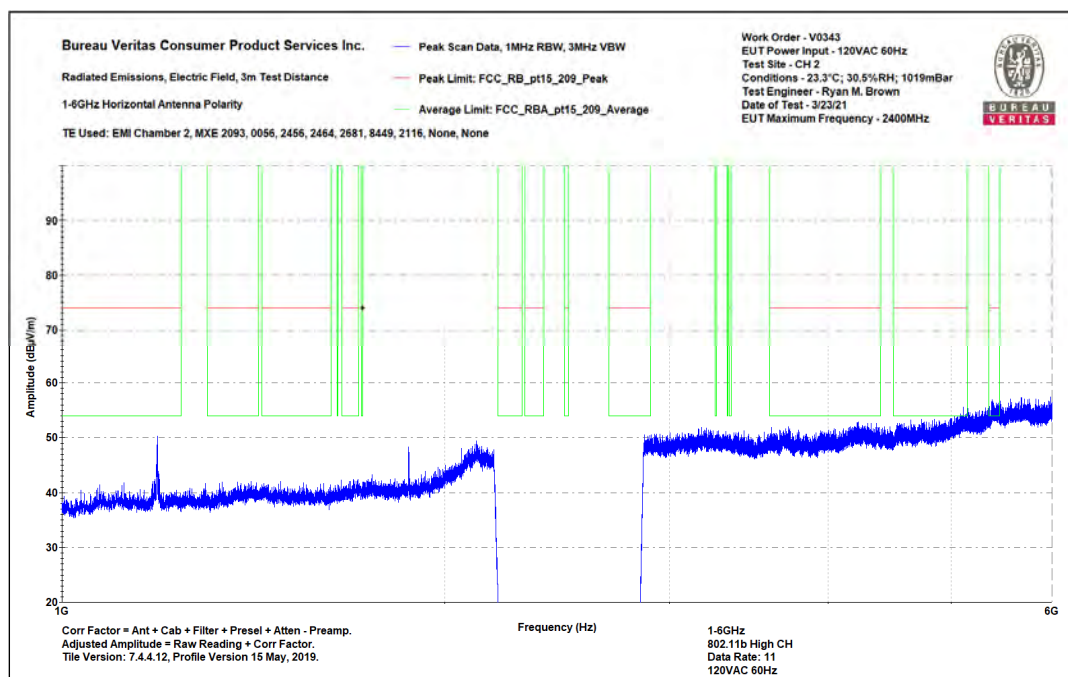


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1 – 6 GHz Horizontal

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 1m Distance

6-18GHz Vertical Data

Notes:

6-18GHz, 802.11b High CH

Data rate 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 50Hz

Test Site - CH2

Conditions - 23.5°C; 32.0%RH; 1012mBar

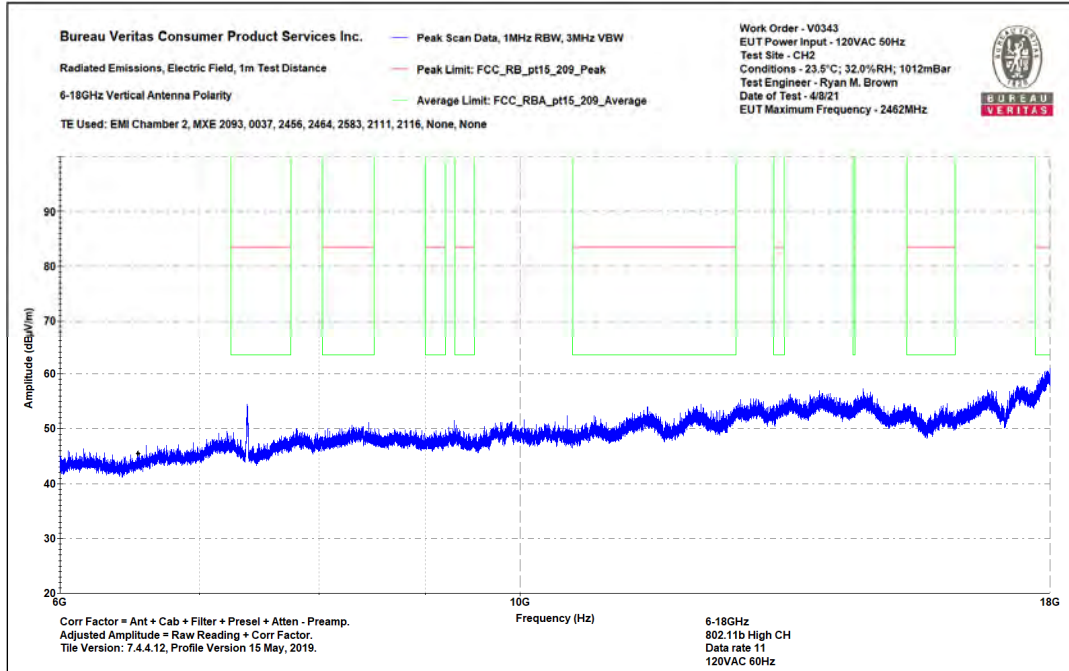
Test Engineer - Ryan M. Brown

Date of Test - 4/8/21

Frequency (MHz)	Raw Peak Reading (dBµV)	Raw Avg Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBµV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBµV/m)	Av Lim: FCC_pt15_20 9_Average (dBµV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)
7385.8	52	42.2	0.9	52.9	83.5	-30.6	PASS		43	63.5	-20.5	PASS	
11511.5	44	34.9	4.8	48.8	83.5	-34.7	PASS		39.7	63.5	-23.8	PASS	
17998.6	42	33.1	14.2	56.2	83.5	-27.3	PASS	-27.3	47.2	63.5	-16.3	PASS	-16.3

6 – 18 GHz Vertical





6 – 18 GHz Vertical

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 1m Distance
6-18GHz Horizontal Data

Notes:

802.11b High CH

Data rate 11

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 50Hz

Test Site - CH2

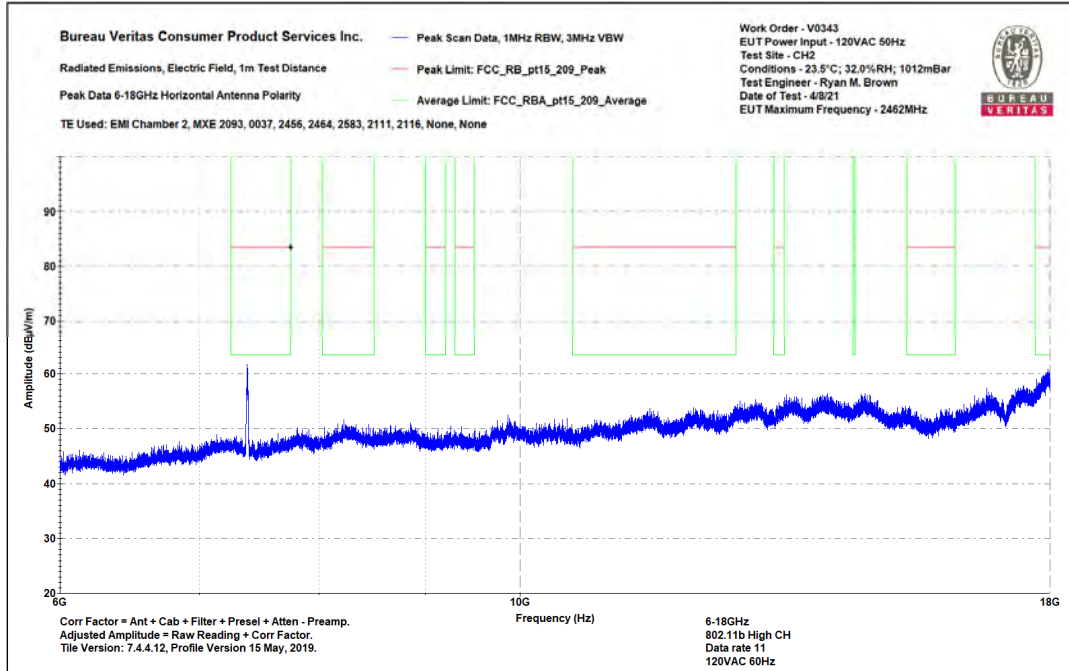
Conditions - 23.5°C; 32.0%RH; 1012mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/8/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Test Results (Pass/Fail)	Worst Avg Margin (dB)
7384.4	58.4	50	0.9	59.3	83.5	-24.2	PASS	-24.2	50.8	63.5	-12.7	PASS	
14478.9	46	46	8.4	54.4	83.5	-29.1	PASS		54.4	63.5	-9.1	PASS	-9.1
17963	42.5	33.4	14.4	56.9	83.5	-26.6	PASS		47.8	63.5	-15.7	PASS	

6 – 18 GHz Horizontal

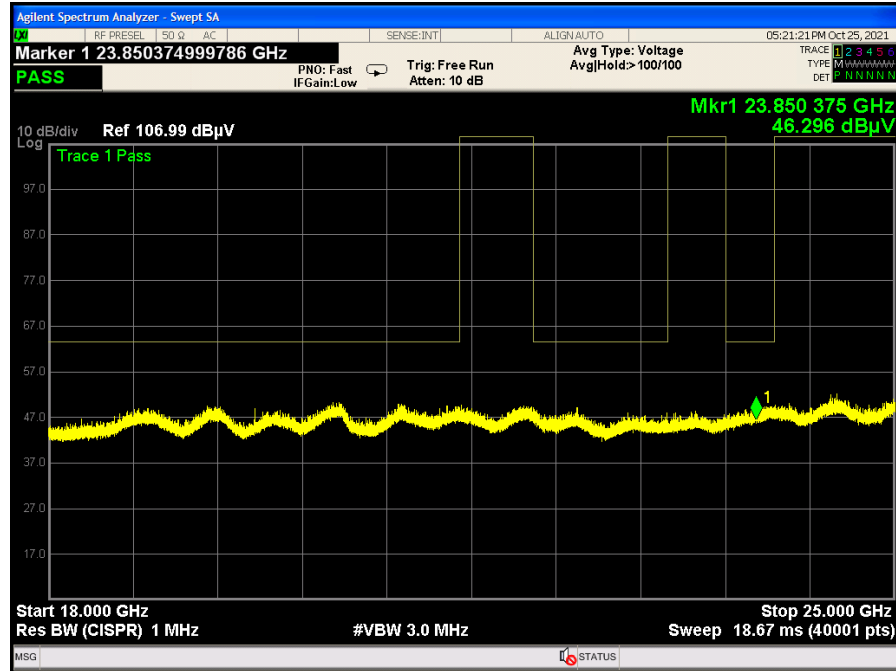


6 – 18 GHz Horizontal

Radiated Emissions Table

Date: 10-Apr-21				Company: BEVI				Work Order: V0343							
Engineer: Ryan M. Brown				EUT Desc: Standup Bevi, V2 product				EUT Operating Voltage/Frequency: 120VAC							
Temp: 24.3				Humidity: 32%				Pressure: 1010							
Frequency Range: 18-25GHz								Measurement Distance: 0.1 m							
Notes: 802.11b Data Rate: 11 HIGH Ch								EUT Max Freq: 2462							
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 Class B High Frequency - Peak			FCC Class B 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				---	---	---	---	---	---	---	---	---	---	---	
Table Result:				---				by		---		dB		Worst Freq: --- MHz	
Test Site: EMI Chamber 2				Cable 1: Asset #2323				Cable 2: ---				Cable 3: ---			
Analyzer: Rental SA#1				Preamp: 18-26.5GHz				Antenna: 18-26.5GHz Horn				Preselector: ---			
CSsoft Radiated Emissions Calculator v 1.017.217															
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor															
Copyright Curtis-Straus LLC 2000															

18 – 25 GHz



18 – 25 GHz

802.11G Low Channel Data Rate

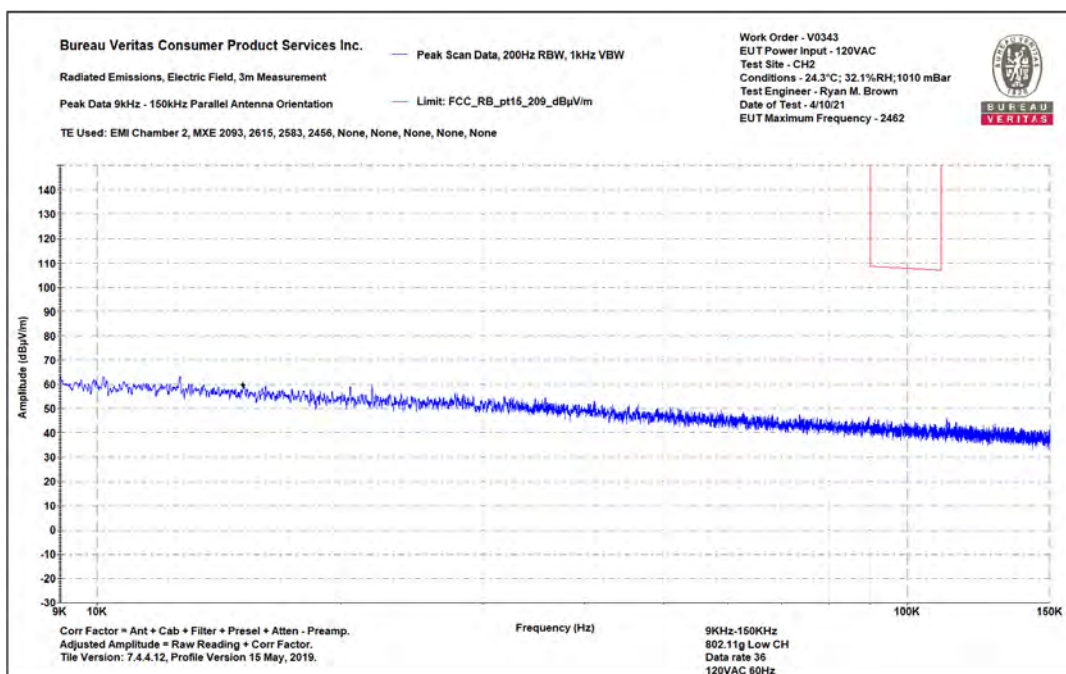
Bureau Veritas Consumer Product Services Inc.
 Radiated Emissions, Electric Field, 3m Measurement
 Top Peaks Parallel 9-150kHz
 Notes:
 802.11g Low CH, Data Rate: 36

Work Order - V0343
 EUT Power Input - 120VAC
 Test Site - CH2
 Conditions - 24.3°C; 32.1%RH;1010 mBar
 Test Engineer - Ryan M. Brown
 Date of Test - 4/10/21

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
 and one fai-rite with the ethernet cable going strait through.

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.1	32.6	10.1	42.7	107.6	-64.9	PASS	
0.09	31.45	10.5	41.95	108.5	-66.55	PASS	
0.11	31.9	10.1	42	106.7	-64.7	PASS	-64.7

9 – 150 KHz Parallel



9 – 150 KHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Perpendicular 9-150kHz

Notes:

802.11g Low CH

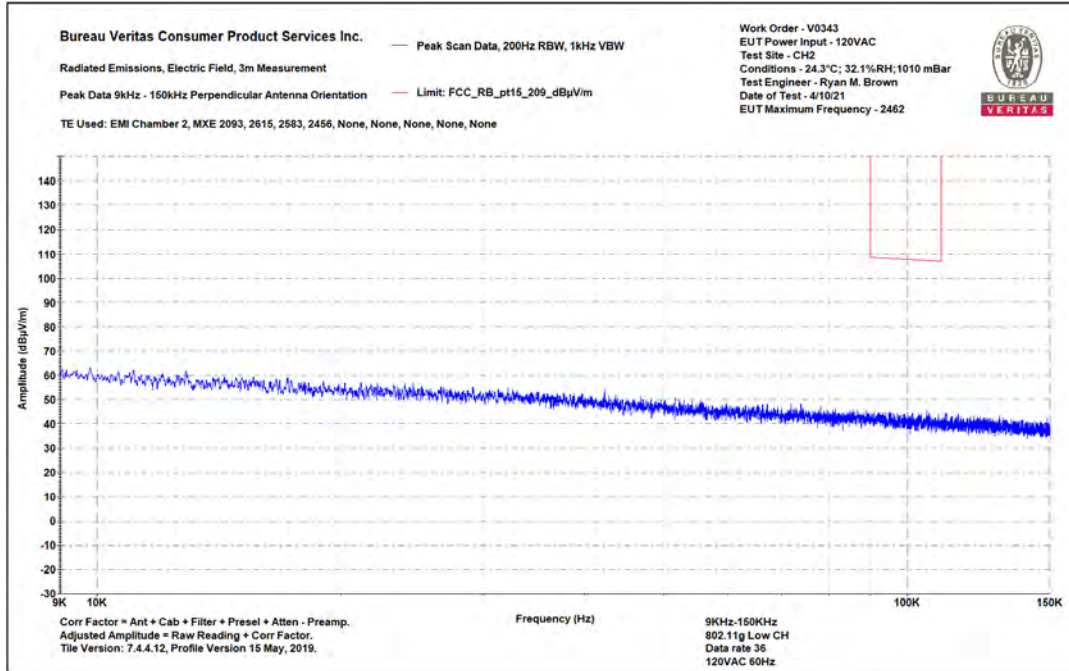
1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343
EUT Power Input - 120VAC
Test Site - CH2
Conditions - 24.3°C; 32.1%RH; 1010 mBar
Test Engineer - Ryan M. Brown
Date of Test - 4/10/21

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.09502	34.7	10.3	45	108.1	-63.1	PASS	-63.1
0.09	31.7	10.5	42.2	108.5	-66.3	PASS	
0.1	33.7	10.1	43.8	107.6	-63.8	PASS	

9 – 150 KHz Perpendicular





9 – 150 KHz Perpendicular

Bureau Veritas Consumer Product Services Inc.
 Radiated Emissions Magnetic Field 3m Distance
 Top Peaks Parallel 150-1000kHz

Notes:

802.11g Low CH

Data rate 36

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
 and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

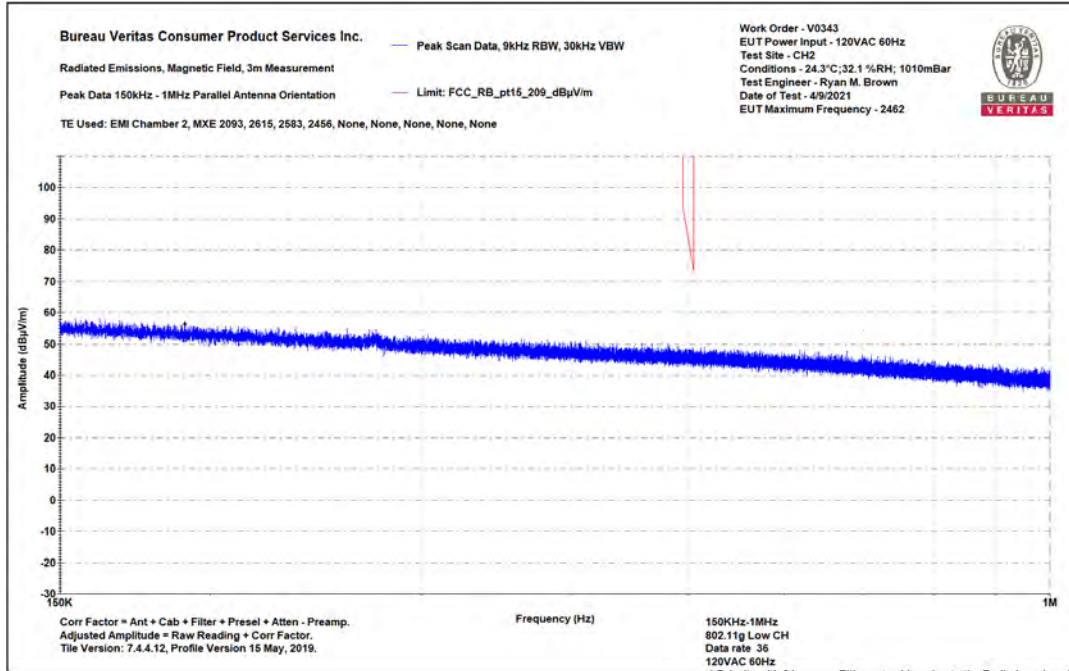
Conditions - 24.3°C; 32.1 %RH; 1010mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.505	36.3	10.2	46.5	73.5	-27	PASS	-27
0.5017	35.3	10.2	45.5	80	-34.5	PASS	
0.495	35.8	10.2	46	93.8	-47.8	PASS	

150 KHz – 1 MHz Parallel



150 KHz – 1 MHz Parallel

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Magnetic Field 3m Distance

Top Peaks Perpendicular 150-1000kHz

Notes:

802.11g Low CH

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

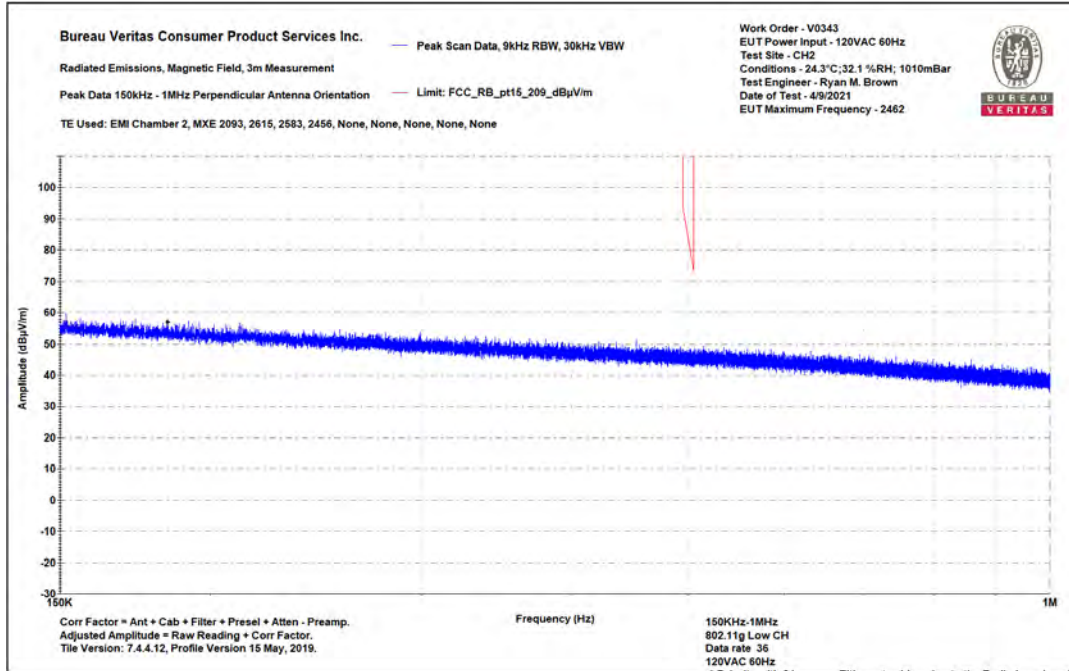
Conditions - 24.3°C; 32.1 %RH; 1010mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.4968	36.4	10.2	26.2	90	-63.8	PASS	
0.505	37.4	10.2	27.2	73.5	-46.3	PASS	-46.3
0.5017	37.3	10.2	27.1	80	-52.9	PASS	

150 KHz – 1 MHz Perpendicular



150 KHz – 1 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Parallel 1-30MHz

Notes:

802.11g Low CH

Data rate MCS 36

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

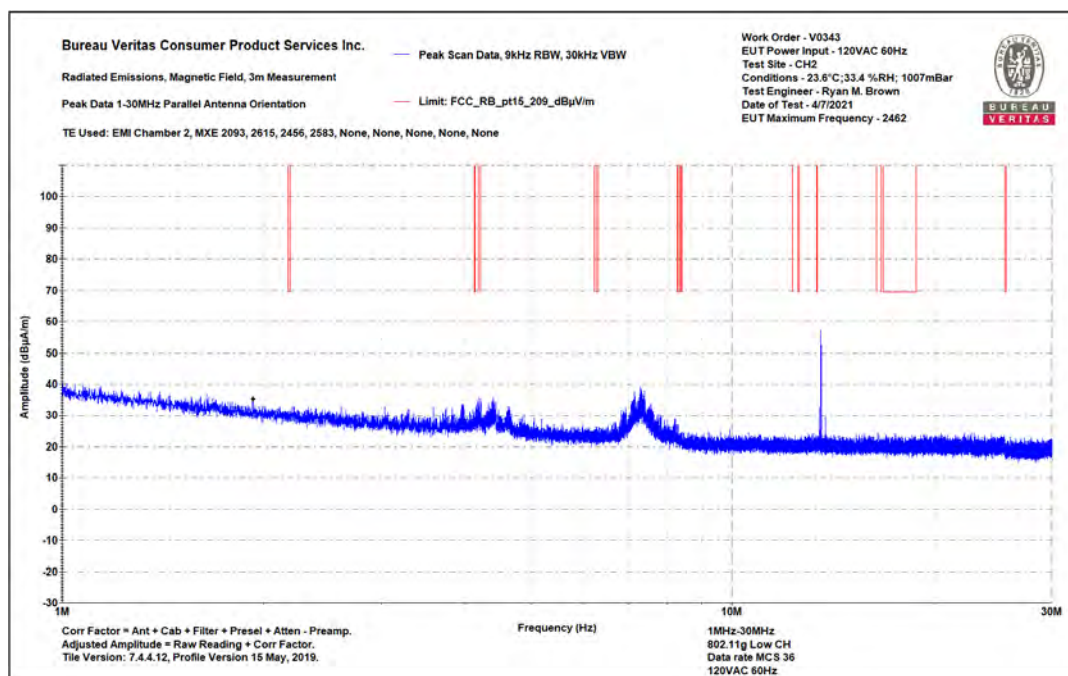
Conditions - 23.6°C; 33.4 %RH; 1007mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/7/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
2.182475	20.8	10.5	31.3	69.5	-38.2	PASS	-38.2
4.177675	20.3	10.6	30.9	69.5	-38.6	PASS	
8.29205	12.7	10.8	23.5	69.5	-46	PASS	

1 – 30 MHz Parallel



1 – 30 MHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Perpendicular 1-30MHz

Notes:

802.11g Low CH

Data rate MCS 36

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

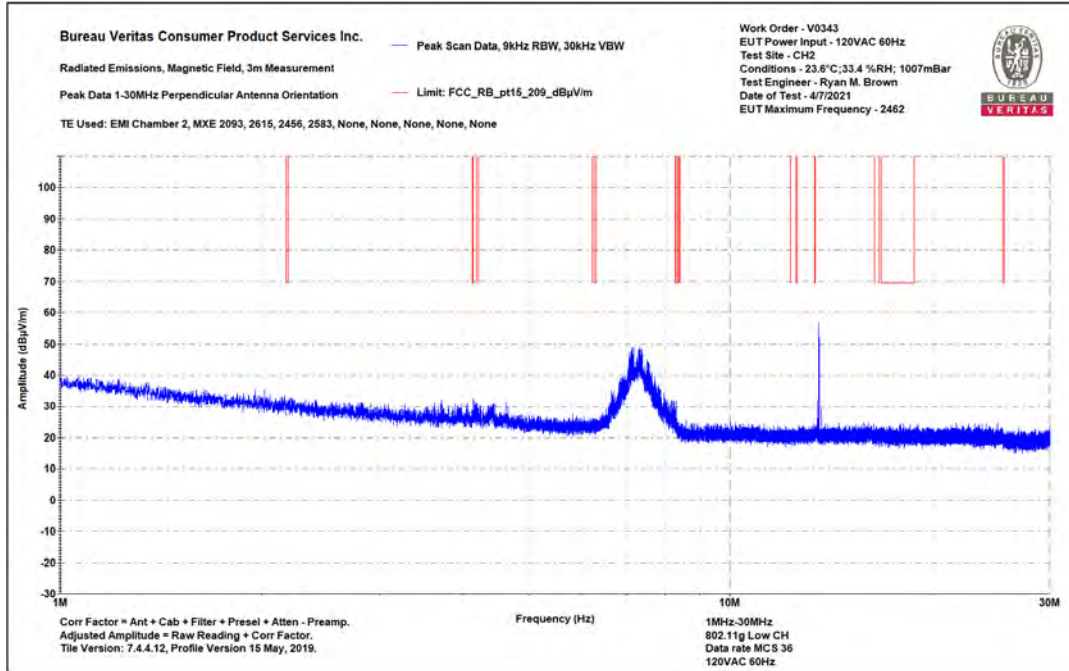
Conditions - 23.6°C; 33.4 %RH; 1007mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/7/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
4.177675	18.8	10.6	29.4	65.9	-36.5	PASS	-36.5
8.29205	13.1	10.8	23.9	69.5	-45.6	PASS	
6.296125	15.2	10.7	25.9	69.5	-43.6	PASS	

1 – 30 MHz Perpendicular



1 – 30 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 3m Distance
30-1000MHz Vertical Data

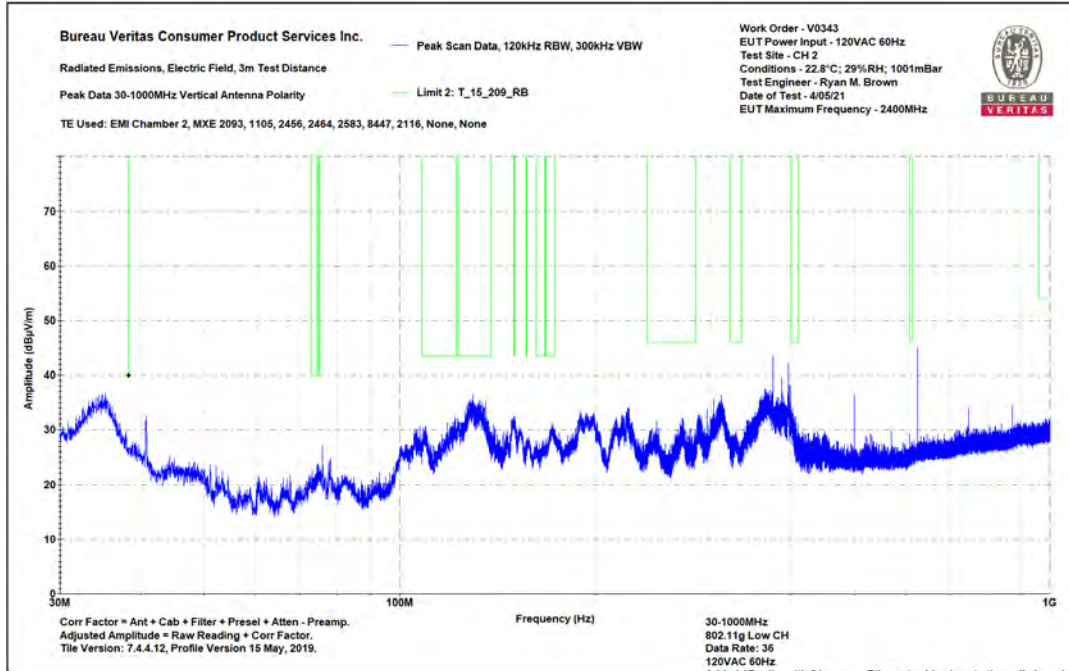
Notes:
802.11g Low CH
Data Rate: 36

Work Order - V0343
EUT Power Input - 120VAC 60Hz
Test Site - CH 2
Conditions - 22.8°C; 29%RH; 1001mBar
Test Engineer - Ryan M. Brown
Date of Test - 4/05/21

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Frequency (MHz)	Raw QP Reading (dBµV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBµV/m)	Lim1: FCC_pt15_209 (dBµV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
129.57	43.28	-6.91	36.37	43.5	-7.13	PASS	-7.13	220	2
135.15	37.4	-2.25	35.15	43.5	-8.35	PASS		125	340
132.4	42.39	-6.99	35.4	43.5	-8.1	PASS		102	11
272.66	39.35	-7.21	32.14	46	-13.86	PASS		107	0
171.15	40.48	-9.22	31.26	43.5	-12.24	PASS		125	0
135.6	42.33	-7.18	35.15	43.5	-8.35	PASS		105	170

30 – 1000 MHz Vertical



30 – 1000 MHz Vertical

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

30-1000MHz Horizontal Data

Notes:

802.11g Low CH

Data Rate: 36

Added 1Ferrite with 2 loops on Ethernet cable close to the radio
board and one fair-rite strait through on the ethernet cable

Work Order - V0343

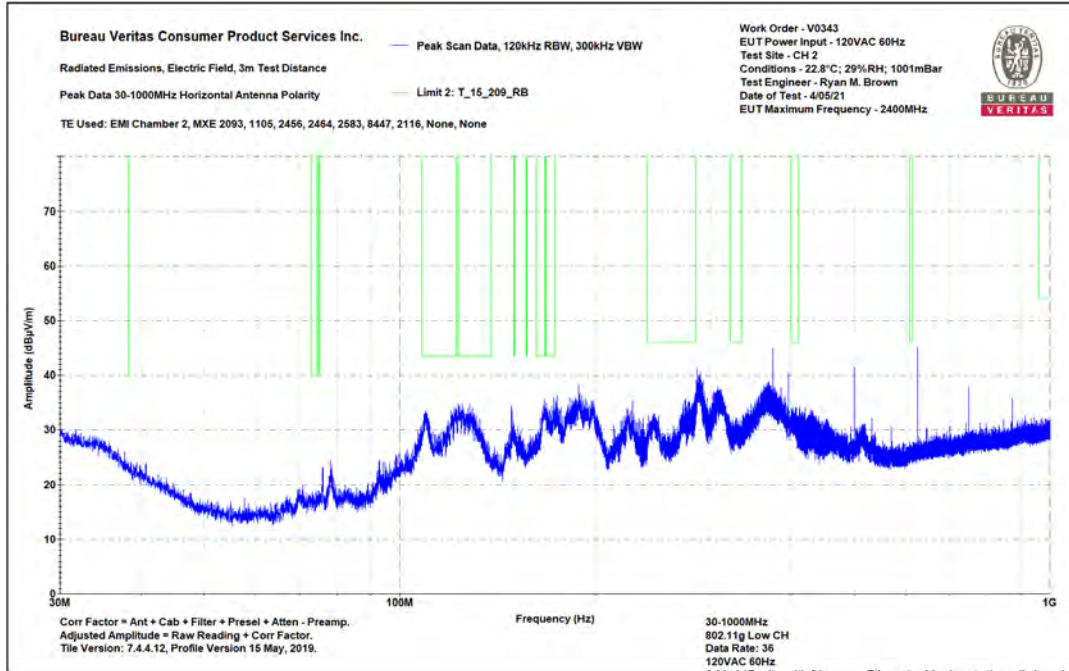
EUT Power Input - 120VAC 60Hz

Test Site - CH 2

Conditions - 22.8°C; 29%RH; 1001mBar

Frequency (MHz)	Raw QP Reading (dBμV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBμV/m)	Lim1: FCC_pt15_20 9 (dBμV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
121.3	41.23	-7	34.07	43.5	-9.43	PASS		103	334
124.62	41.7	-7	34.71	43.5	-8.79	PASS		107	5
128.11	41.64	-5.4	34.72	43.5	-8.78	PASS		136	15
109.68	42.05	-5	33.42	43.5	-10.08	PASS		175	292
172.29	45.21	-3.1	35.87	43.5	-7.63	PASS		108	314
285.61	46.06	-1.2	39.08	46	-6.92	PASS	-6.92	100	37

30- 1000 MHz Horizontal



30- 1000 MHz Horizontal

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 3m Distance
1-6GHz Vertical Data

Notes:

802.11g Low CH

Data Rate: 36

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

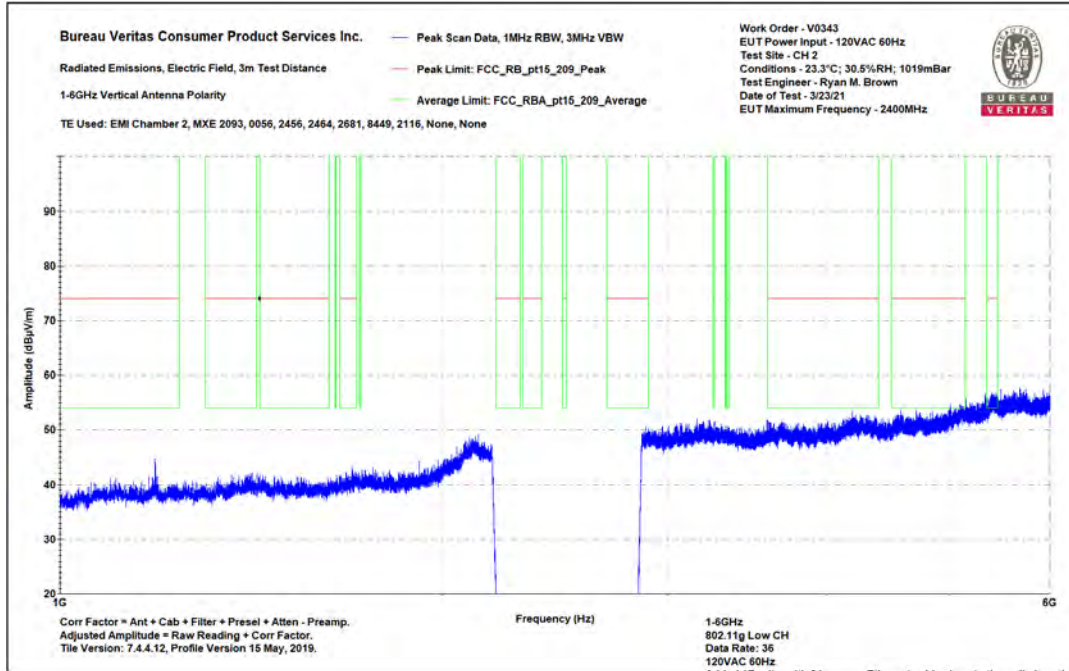
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)
1188.2	50	36.8	-7	43	74	-31	PASS		29.8	54	-24.2	PASS	
4196.6	46.2	46.2	6.8	53	74	-21	PASS		53	54	-1	PASS	
4706.3	45.8	45.8	7.7	53.5	74	-20.5	PASS	-20.5	53.5	54	-0.5	PASS	-0.5

1 – 6 GHz Vertical



1 – 6 GHz Vertical

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 3m Distance
1-6GHz Horizontal Data

Notes:

802.11g Low CH

Data Rate: 36

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

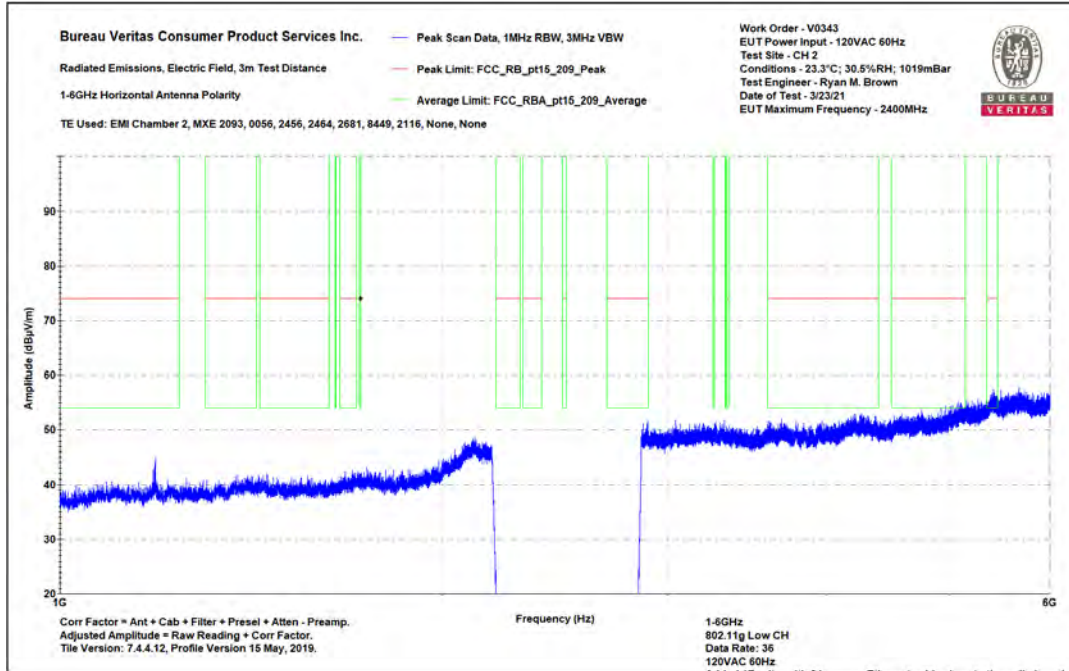
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_209_Peak (dBμV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_209_Average (dBμV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Average Margin (dB)
1188	52.6	38.3	-7	45.6	74	-28.4	PASS		31.3	54	-22.7	PASS	
4757.5	45.7	45.7	7.7	53.4	74	-20.6	PASS	-20.6	53.4	54	-0.6	PASS	-0.6
4726.3	45.3	45.3	7.7	53	74	-21	PASS		53	54	-1	PASS	

1 – 6 GHz Horizontal



1 – 6 GHz Horizontal

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 1m Distance

6-18GHz Vertical Data

Notes:

802.11g Low CH

Data rate 36

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 50Hz

Test Site - CH2

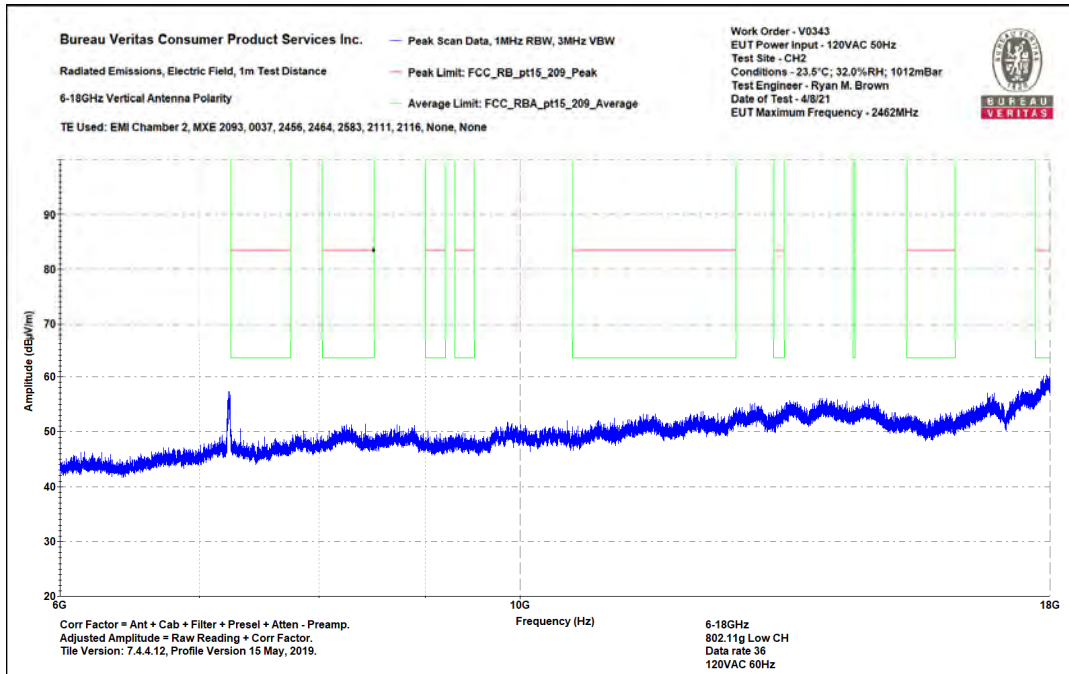
Conditions - 23.5°C; 32.0%RH; 1012mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/8/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
8290.5	51.3	51.3	2.97	54.27	83.5	-29.23	PASS		54.27	63.5	-9.23	PASS		300	0
11514.1	53.11	53.11	4.81	57.92	83.5	-25.58	PASS	-25.58	57.92	63.5	-5.58	PASS	-5.58	300	375
17937.8	40.9	33.4	14.4	55.3	83.5	-28.2	PASS		47.8	63.5	-15.7	PASS		300	58

6 – 18 GHz Vertical



6 – 18 GHz Vertical

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 1m Distance

6-18GHz Horizontal Data

Notes:

802.11g Low CH

Data rate 36

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 50Hz

Test Site - CH2

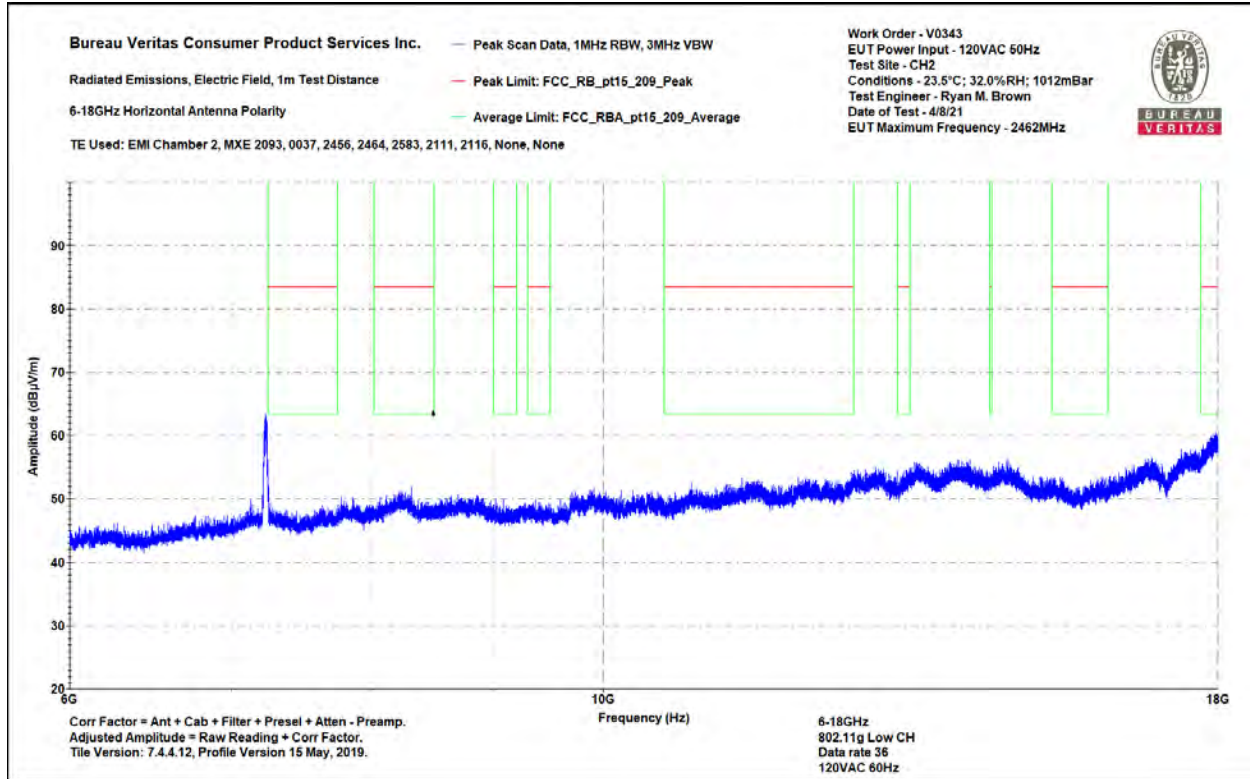
Conditions - 23.5°C; 32.0%RH; 1012mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/8/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Test Results (Pass/Fail)	Worst Avg Margin (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
8318.1	45.5	35.4	3.1	48.6	83.5	-34.9	PASS		38.5	63.5	-25	PASS		250	335
11420.1	53.18	53.18	4.31	57.49	83.5	-26.01	PASS		57.49	63.5	-6.01	PASS	-6.01	275	73
17967.6	43.3	33.3	14.4	57.7	83.5	-25.8	PASS	-25.8	47.7	63.5	-15.8	PASS		268	354

6 – 18 GHz Horizontal

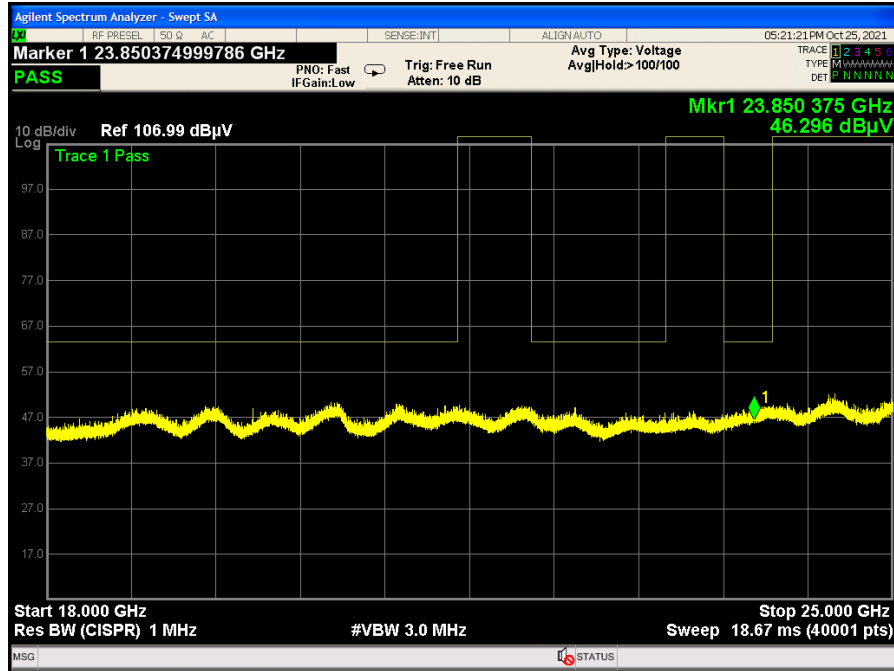


6 – 18 GHz Horizontal

Radiated Emissions Table

Date: 10-Apr-21				Company: BEVI				Work Order: V0343							
Engineer: Ryan M. Brown				EUT Desc: Standup Bevi, V2 product				EUT Operating Voltage/Frequency: 120VAC							
Temp:				Humidity:				Pressure:							
Frequency Range: 18-25GHz								Measurement Distance: 0.1 m							
Notes: 802.11g Data Rate: 36 Low Ch								EUT Max Freq: 2462							
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBuV)	Average Reading (dBuV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBuV/m)	Adjusted Avg Reading (dBuV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average			
									Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)	
No Emissions Found in this Range				---	---	---	---	---	---	---	---	---	---		
Table Result: --- by --- dB Worst Freq: --- MHz															
Test Site: EMI Chamber 2				Cable 1: Asset #2323				Cable 2: ---				Cable 3: ---			
Analyzer: Rental SA#1				Preamp: 18-26.5GHz				Antenna: 18-26.5GHz Horn				Preselector: ---			
CSsoft Radiated Emissions Calculator v 1.017.217															
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor															
Copyright Curtis-Straus LLC 2006															

18 – 25 GHz



18 – 25 GHz

802.11G Mid Channel Data Rate

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Perpendicular 9-150kHz

Notes:

802.11g MID CH, Data Rate : 18

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC

Test Site - CH2

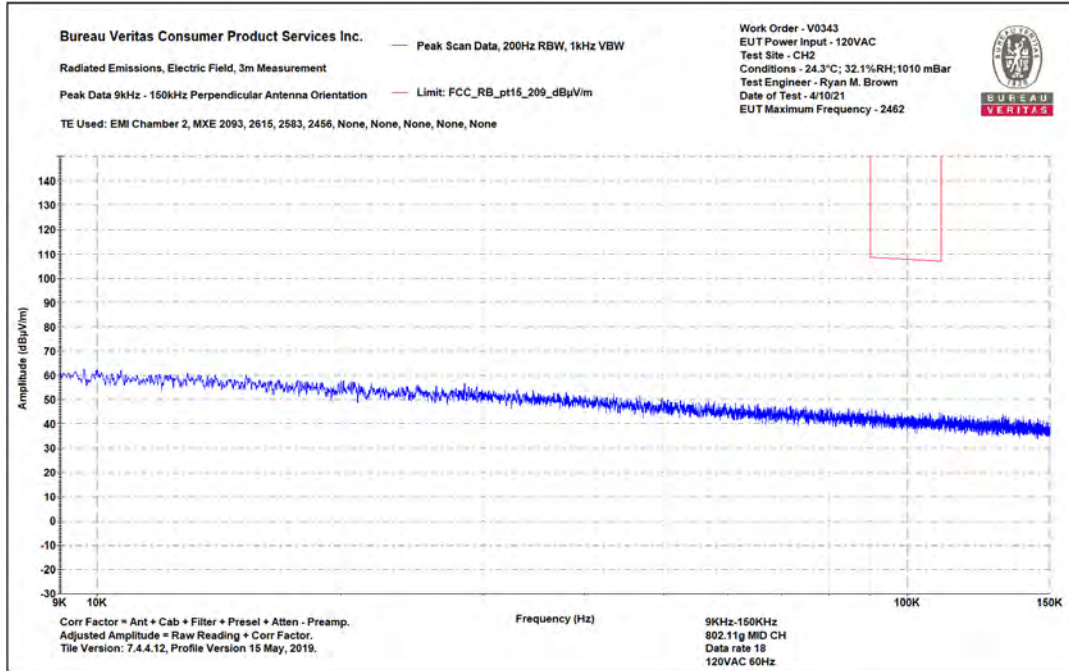
Conditions - 24.3°C; 32.1%RH; 1010 mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/10/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.090361	35.5	10.5	46	108.5	-62.5	PASS	-62.5
0.09724	44.27	10.4	54.67	107.8	-53.13	PASS	
0.10458	44.56	10.1	34.46	107.1	-72.64	PASS	

9 – 150 KHz Perpendicular



9 – 150 KHz Perpendicular

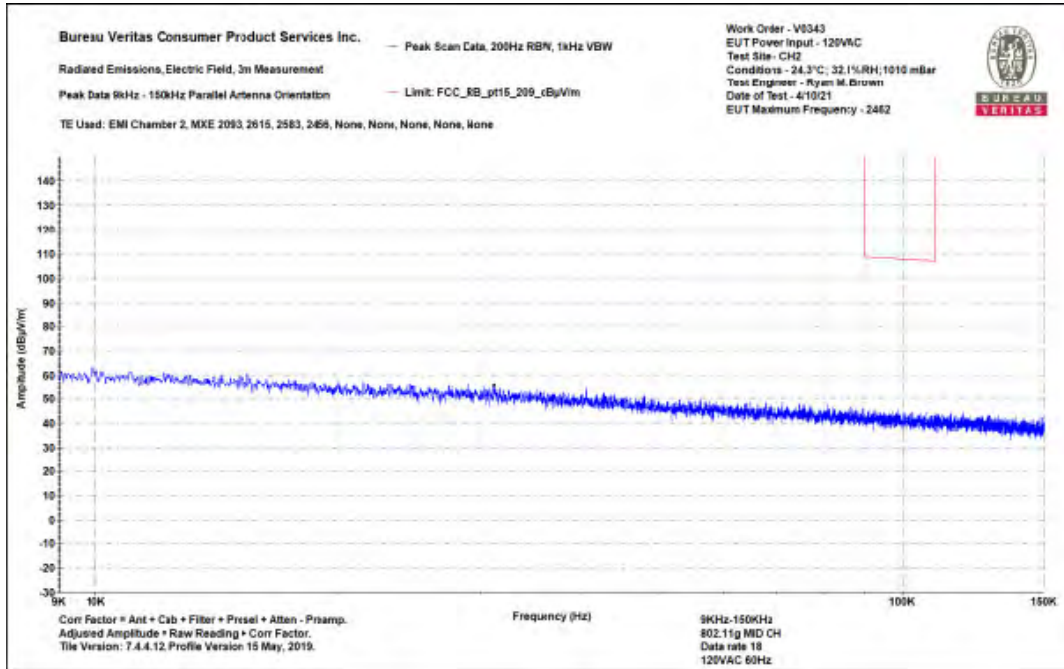
Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Parallel 9-150kHz
Notes:
802.11g MID CH, Data Rate: 18

Work Order - V0343
EUT Power Input - 120VAC
Test Site - CH2
Conditions - 24.3°C; 32.1%RH; 1010 mBar
Test Engineer - Ryan M. Brown
Date of Test - 4/10/21
EUT Maximum Frequency - 2462

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fai-rite with the ethernet cable going strait through.

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.098912	35.1	10.2	45.3	107.6	-62.3	PASS	
0.10245	44.29	10.1	54.39	107.3	-52.91	PASS	
0.10753	44.09	10.1	54.19	106.9	-52.71	PASS	-52.7

9 – 150 KHz Parallel



9 – 150 KHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Parallel 150-1000kHz

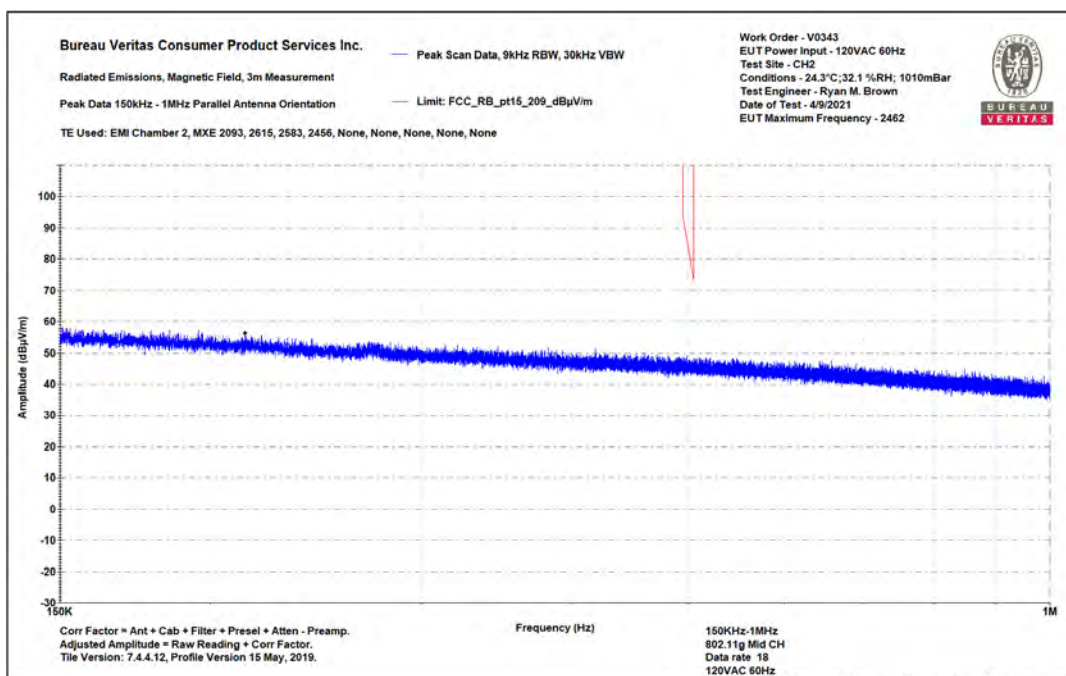
Notes:
802.11g Mid CH

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fai-rite with the ethernet cable going strait through.

Work Order - V0343
EUT Power Input - 120VAC 60Hz
Test Site - CH2
Conditions - 24.3°C;32.1 %RH; 1010mBar
Test Engineer - Ryan M. Brown
Date of Test - 4/9/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.499	39	10.2	49.2	73.7	-24.5	PASS	-24.5
0.496	38.14	10.2	48.37	90	-41.63	PASS	
0.495	38.26	10.2	48.49	93.8	-45.31	PASS	

150 KHz – 1 MHz Parallel



150 KHz – 1 MHz Parallel

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Magnetic Field 3m Distance

Top Peaks Perpendicular 150-1000kHz

Notes:

802.11g Mid CH

Data rate 18

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

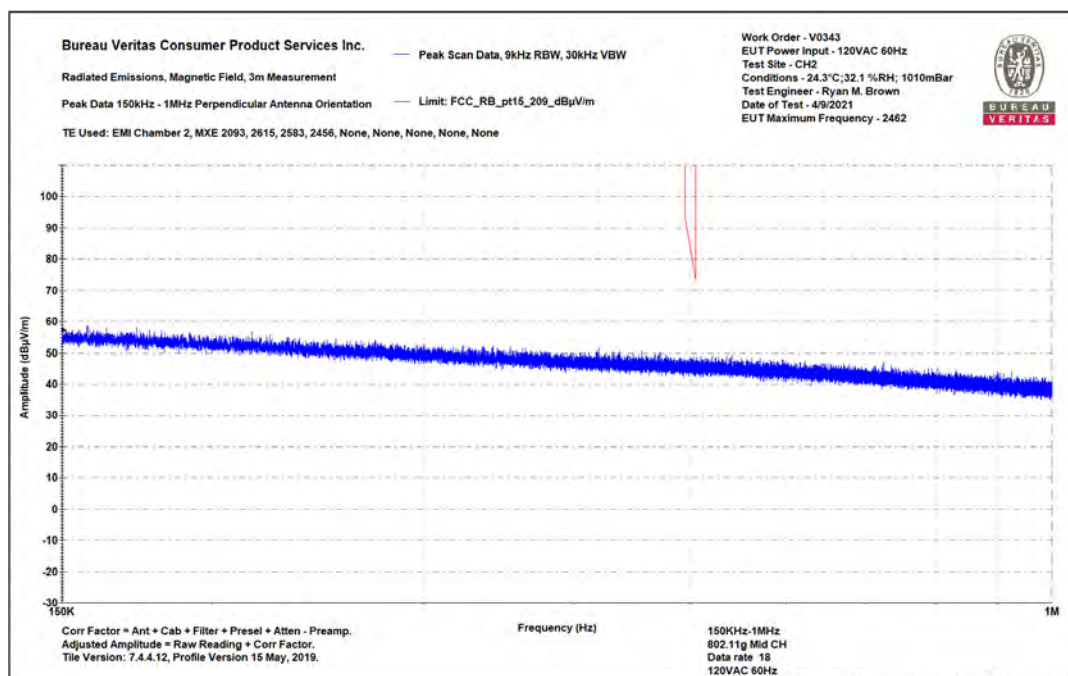
Conditions - 24.3°C; 32.1 %RH; 1010mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.503	34.5	10.2	44.7	73.53	-28.83	PASS	-28.83
0.495	33.7	10.2	43.9	93.8	-49.9	PASS	
0.497	37	10.2	47.2	90	-42.8	PASS	

150 KHz – 1 MHz Perpendicular



150 KHz – 1 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Magnetic Field 3m Distance

Top Peaks Parallel 1-30MHz

Notes:

802.11g MID CH

Data rate MCS 18

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

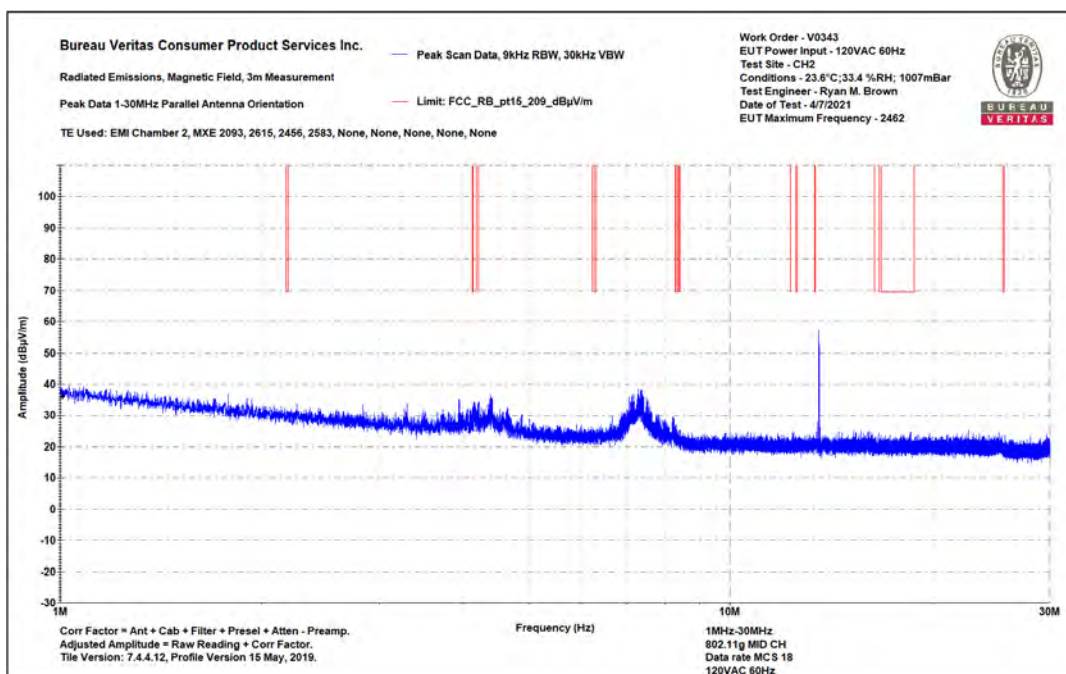
Conditions - 23.6°C; 33.4 %RH; 1007mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/7/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
2.1803	21.1	10.5	31.6	69.5	-37.9	PASS	
4.126925	21.6	10.6	32.2	69.5	-37.3	PASS	-37.3
8.2935	15.6	10.8	26.4	69.5	-43.1	PASS	

1 MHz – 30MHz Parallel



1 MHz – 30MHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Perpendicular 1-30MHz

Notes:

802.11g MID CH

Data rate MCS 18

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

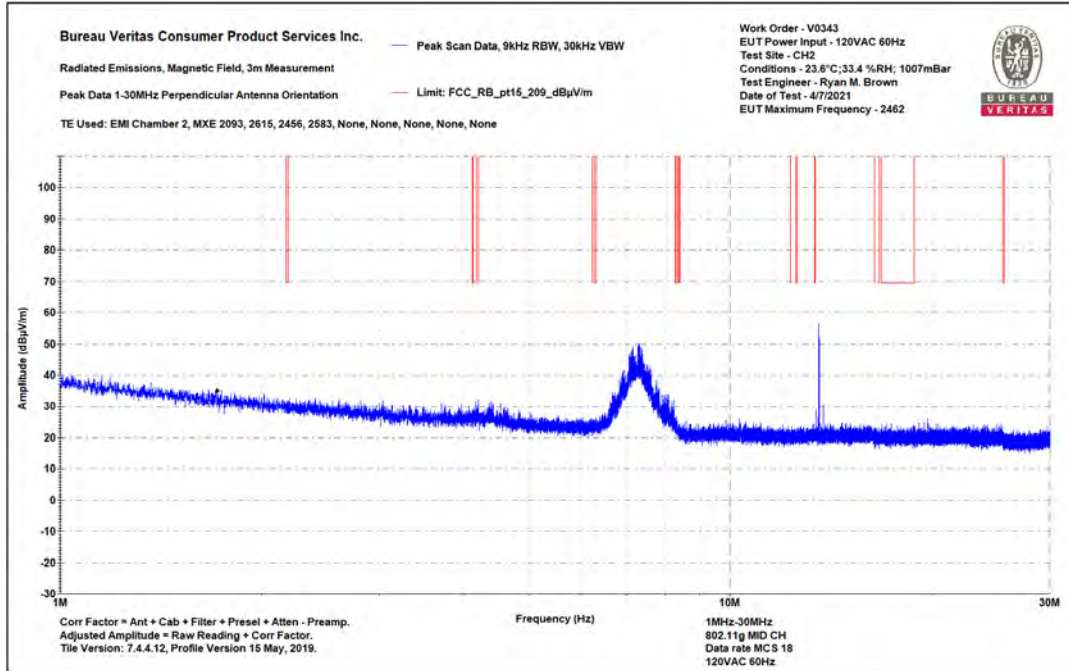
Conditions - 23.6°C; 33.4 %RH; 1007mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/7/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
2.18175	21.2	10.5	31.7	69.5	-37.8	PASS	-37.8
4.2074	17.7	10.6	28.3	69.5	-41.2	PASS	
8.292775	12.4	10.8	23.2	69.5	-46.3	PASS	

1 MHz – 30 MHz Perpendicular



1 MHz – 30 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

30-1000MHz Vertical Data

Notes:

802.11g MID CH

Data Rate: 18

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

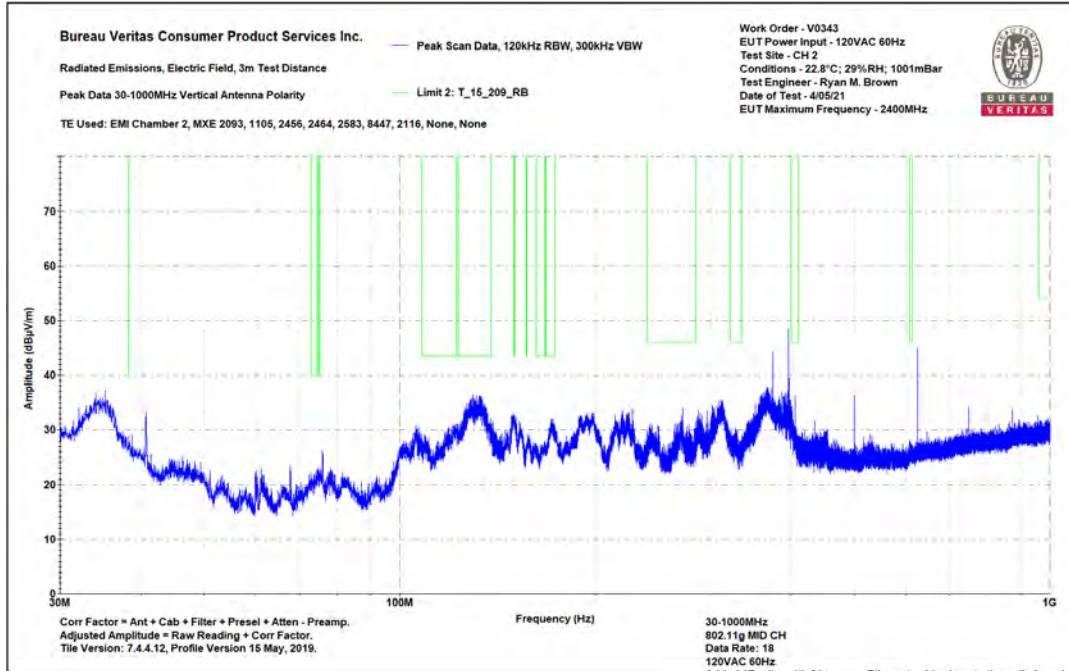
Conditions - 22.8°C; 29%RH; 1001mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/05/21

Frequency (MHz)	Raw QP Reading (dBµV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBµV/m)	Lim1: FCC_pt15_20 9_RB (dBµV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
129.59	43.36	-6.91	36.45	43.5	-7.05	PASS	-7.05	125	19
132.57	43.17	-6.99	36.18	43.5	-7.32	PASS		100	25
171.95	41.309	-9.309	32	43.5	-11.5	PASS		100	340
272.18	41.12	-7.21	33.91	46	-12.09	PASS		125	0
131.12	43.31	-7	36.31	43.5	-7.19	PASS		125	25
264.9	38.86	-7.78	31.08	46	-14.92	PASS		104	172

30 – 1000 MHz Vertical



30 – 1000 MHz Vertical

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 3m Distance
30-1000MHz Horizontal Data

Notes:

802.11g MID CH

Data Rate: 18

Added 1 Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120

Test Site - CH 2

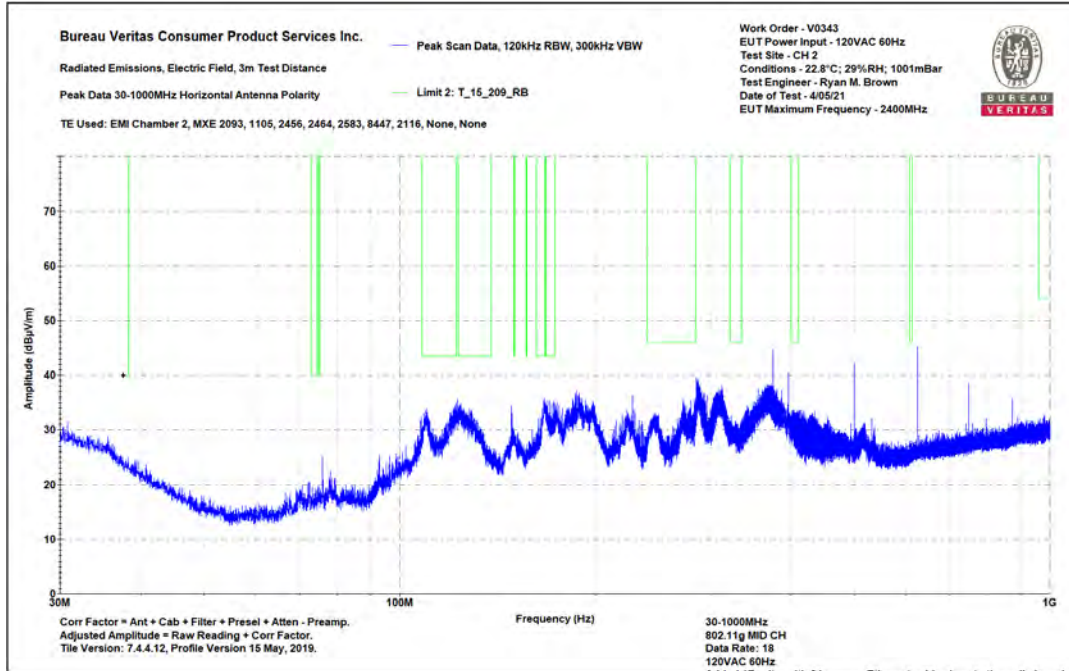
Conditions - 22.8°C; 29

Test Engineer - Ryan IV

Date of Test - 4/05/21

Frequency (MHz)	Raw QP Reading (dBμV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBμV/m)	Lim1: FCC_pt15_20 9_RB (dBμV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
124.01	41.62	-6.98	34.64	43.5	-8.86	PASS		125	0
127.58	40.63	-6.91	33.72	43.5	-9.78	PASS		111	340
109.9	42.35	-8.59	33.76	43.5	-9.74	PASS		133	25
166.64	44.59	-8.79	35.8	43.5	-7.7	PASS		175	250
169.99	44.46	-9.09	35.37	43.5	-8.13	PASS		102	315
285.64	46.54	-7.07	39.47	46	-6.53	PASS	-6.53	102	35

30- 1000 MHz Horizontal



30- 1000 MHz Horizontal

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

1-6GHz Vertical Data

Notes:

802.11g MID CH

Data Rate: 18

Added 1 Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

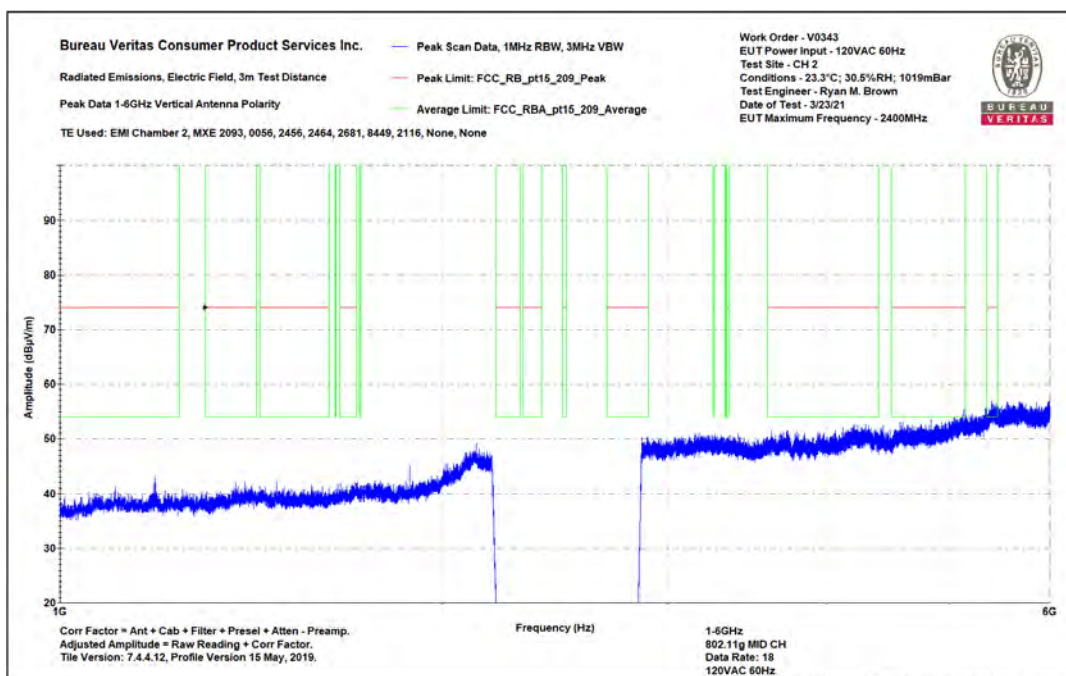
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw Peak Reading (dBµV)	Raw Avg Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBµV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBµV/m)	Av Lim: FCC_pt15_20 9_Average (dBµV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)
1187.9	49.7	36.5	-7	42.7	74	-31.3	PASS		29.5	54	-24.5	PASS	
4837.9	45.01	45.01	8.5	53.51	74	-20.49	PASS		53.51	54	-0.49	PASS	-0.49
5396.8	44	34.4	12.1	56.1	74	-17.9	PASS	-17.9	46.5	54	-7.5	PASS	

1 – 6 GHz Vertical



1 – 6 GHz Vertical

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

1-6GHz Horizontal Data

Notes:

802.11g MID CH

Data Rate: 18

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

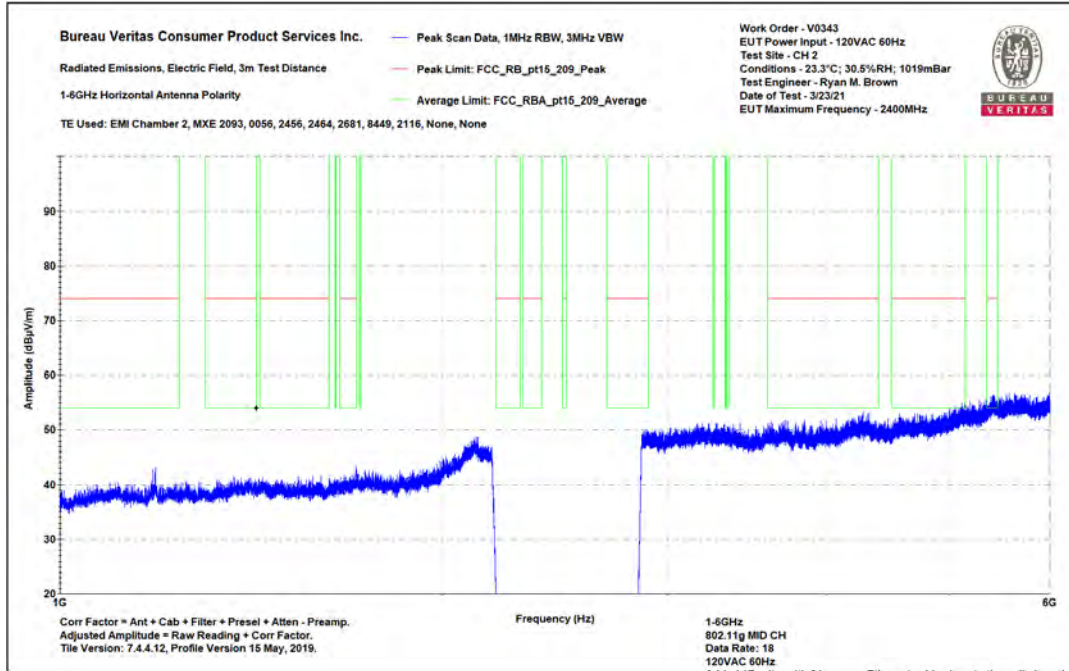
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw Peak Reading (dBµV)	Raw Avg Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Pk Lim: FCC_pt15_20_9_Peak (dBµV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBµV/m)	Av Lim: FCC_pt15_20_9_Average (dBµV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Average Margin (dB)
1187.6	46.4	37	-7	39.4	74	-34.6	PASS		30	54	-24	PASS	
4278.1	45.8	45.8	7.4	53.2	74	-20.8	PASS		53.2	54	-0.8	PASS	-0.8
4565.7	45.8	45.8	6.8	52.6	74	-21.4	PASS		52.6	54	-1.4	PASS	

1 – 6 GHz Horizontal



1 – 6 GHz Horizontal

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 1m Distance

6-18GHz Vertical Data

Notes:

802.11g MID CH

Data rate 18

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 50Hz

Test Site - CH2

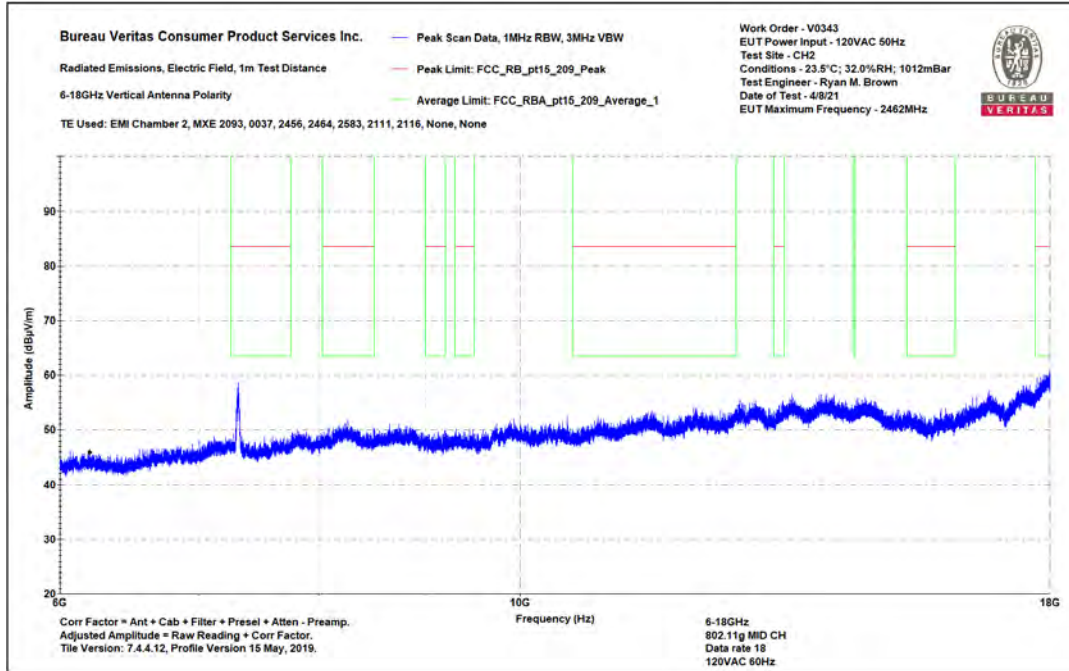
Conditions - 23.5°C; 32.0%RH; 1012mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/8/21

Frequency (MHz)	Raw Peak Reading (dBµV)	Raw Avg Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBµV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBµV/m)	Av Lim: FCC_pt15_20 9_Average (dBµV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)
7312	45.9	36.9	0.9	46.7	83.5	-36.8	PASS		37.8	63.5	-25.7	PASS	
8254.6	45.6	34.7	2.8	48.5	83.5	-35	PASS		37.6	63.5	-25.9	PASS	
17989.8	41.1	33.1	14.2	55.3	83.5	-28.2	PASS	-28.2	47.4	63.5	-16.1	PASS	-16.1

6 – 18 GHz Vertical



6 – 18 GHz Vertical

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 1m Distance
6-18GHz Horizontal Data

Notes:

802.11g MID CH

Data rate 18

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 50Hz

Test Site - CH2

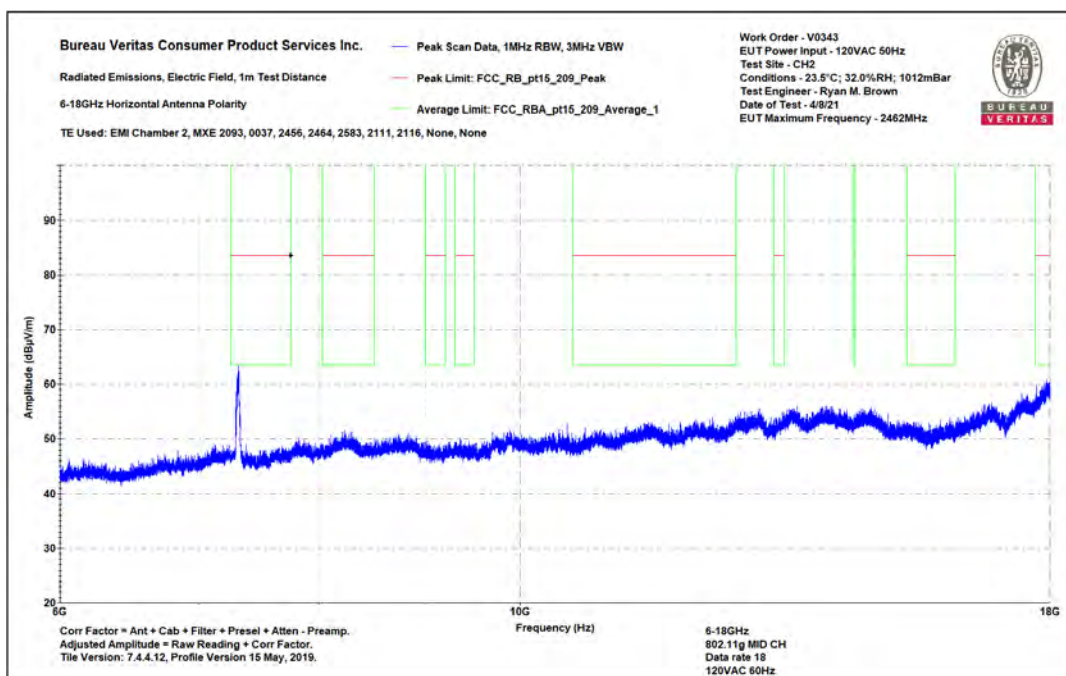
Conditions - 23.5°C; 32.0%RH; 1012mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/8/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_209_Peak (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_209_Average (dBμV/m)	Avg Margin (dB)	Avg Test Results (Pass/Fail)	Worst Avg Margin (dB)
7312.4	63	51.4	0.9	63.8	83.5	-19.7	PASS	-19.7	52.3	63.5	-11.2	PASS	-11.2
8225.9	45.6	35	2.6	48.2	83.5	-35.3	PASS		37.7	63.5	-25.8	PASS	
17934.6	42.9	33.3	14.4	57.3	83.5	-26.2	PASS		47.7	63.5	-15.8	PASS	

6 – 18 GHz Horizontal

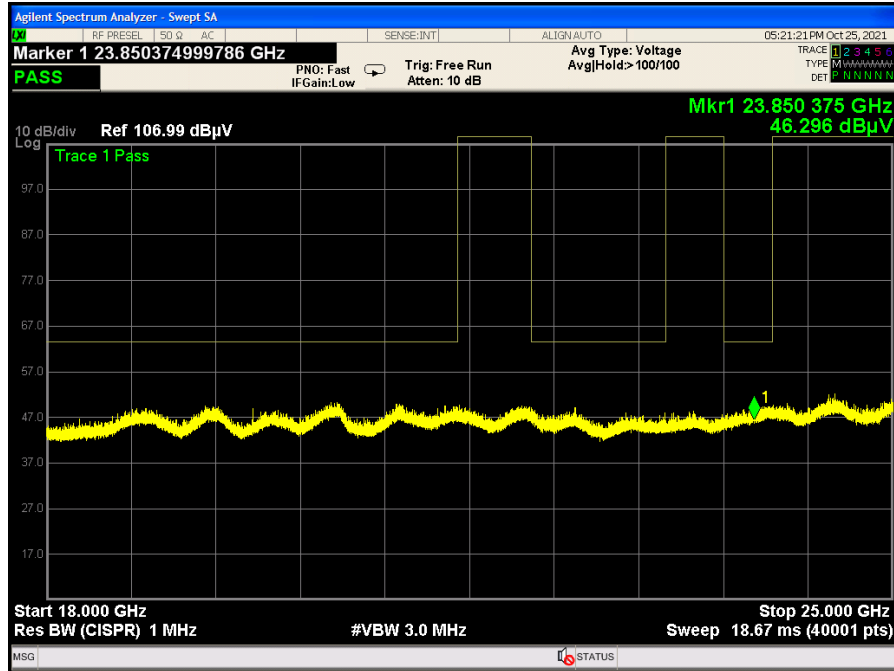


6 – 18 GHz Horizontal

Radiated Emissions Table

Date: 10-Apr-21				Company: BEVI				Work Order: V0343											
Engineer: Ryan M. Brown				EUT Desc: Standup Bevi, V2 product				EUT Operating Voltage/Frequency: 120VAC											
Temp:				Humidity:				Pressure:											
Frequency Range: 18-25GHz								Measurement Distance: 0.1 m											
Notes: 802.11g Data Rate: 18 Mid Ch								EUT Max Freq: 2462											
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 Class B High Frequency - Peak			FCC Class B 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				---	---	---	---	---	---	---	---	---	---	---	---				
Table Result:				---	by				---	dB				Worst Freq:				---	MHz
Test Site: EMI Chamber 2				Cable 1: Asset #2323				Cable 2: ---				Cable 3: ---							
Analyzer: Rental SA#1				Preamp: 18-26.5GHz				Antenna: 18-26.5GHz Horn				Preselector: ---							
CSsoft Radiated Emissions Calculator v 1.017.217																			
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor																			
Copyright Curtis-Strauss LLC 200																			

18 – 25 GHz



18 – 25 GHz

802.11G High Channel Data Rate

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Parallel 9-150kHz
Notes:

802.11g High CH

Data rate 12

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fai-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC

Test Site - CH2

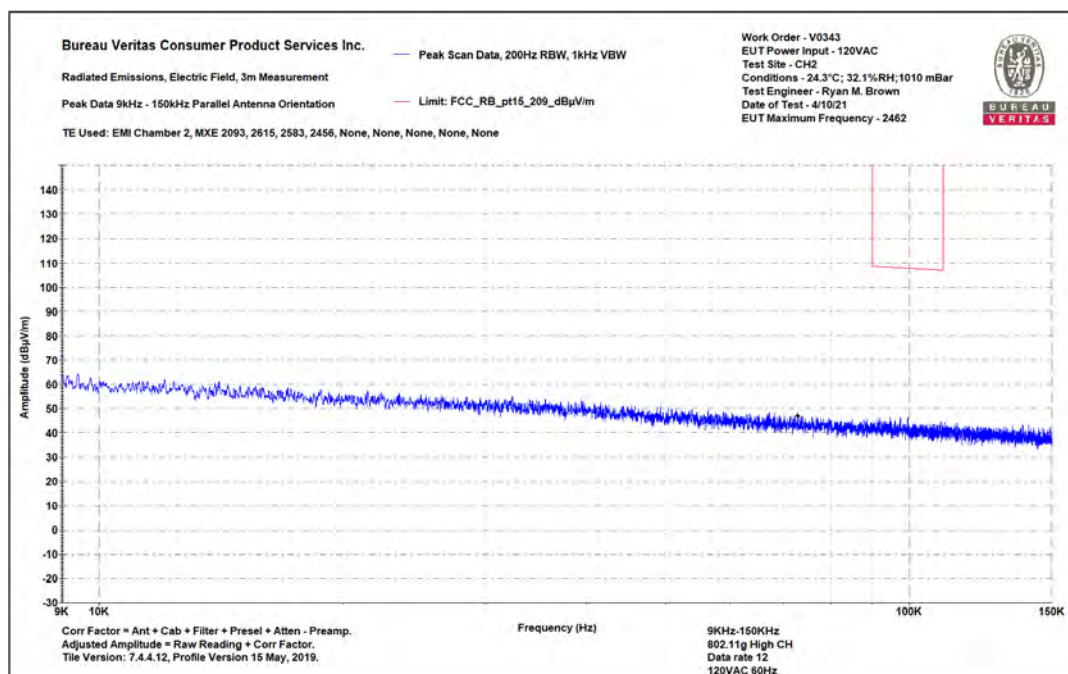
Conditions - 24.3°C; 32.1%RH;1010 mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/10/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.09138	34.9	10.5	45.4	107.8	-62.4	PASS	
0.09747	36	10.2	46.2	107.8	-61.6	PASS	-61.6
0.109131	34.5	10.1	44.7	106.8	-62.2	PASS	

9 – 150 KHz Parallel



9 – 150 KHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Perpendicular 9-150kHz

Notes:

802.11g High CH

Data rate 12

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC

Test Site - CH2

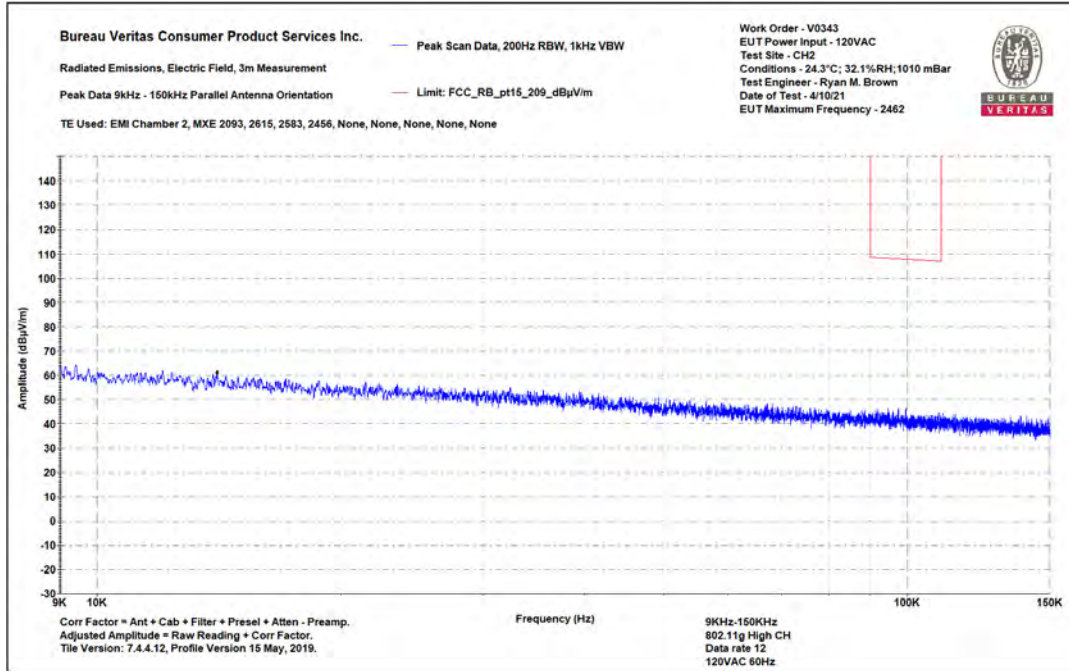
Conditions - 24.3°C; 32.1%RH; 1010 mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/10/21

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.1	31.2	10.1	41.3	107.6	-66.3	PASS	
0.094703	35.2	10.3	45.5	108.1	-62.6	PASS	
0.106212	34.9	10.1	45	107.1	-62.1	PASS	-62.1

9 – 150 KHz Perpendicular



9 – 150 KHz Perpendicular

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Magnetic Field 3m Distance

Top Peaks Parallel 150-1000kHz

Notes:

802.11g High CH, Data rate 12

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
 and one fai-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

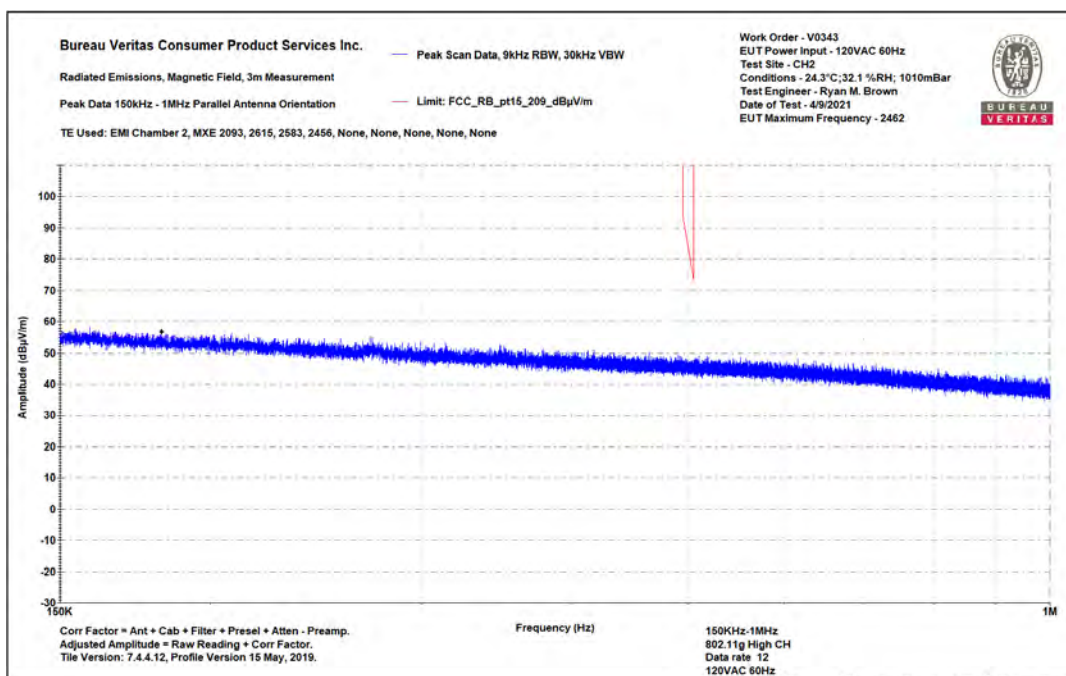
Conditions - 24.3°C; 32.1 %RH; 1010mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.495	35.7	10.2	45.9	93.8	-47.9	PASS	
0.505	36.9	10.2	47.1	73.5	-26.4	PASS	-26.4
0.501	36.7	10.2	46.9	80	-33.1	PASS	

150 KHz – 1 MHz Parallel



150 KHz – 1 MHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Perpendicular 150-1000kHz

Notes:

802.11g High CH

Data rate 12

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

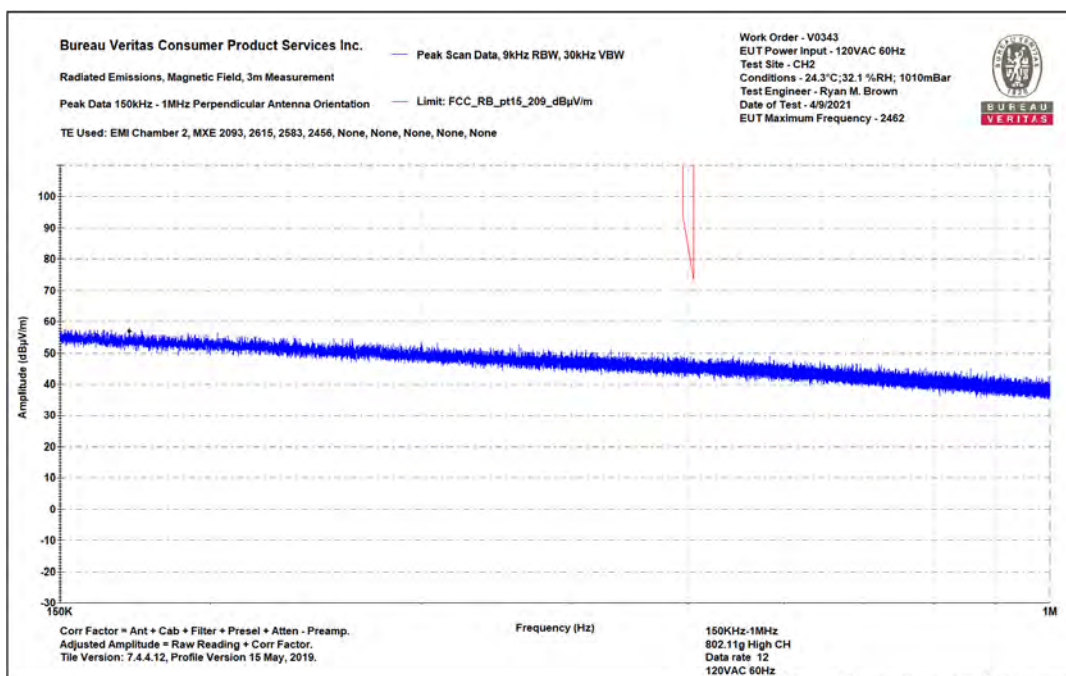
Conditions - 24.3°C; 32.1 %RH; 1010mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.496	35.9	10.2	46.1	75	-28.9	PASS	-28.9
0.501	35.3	10.2	45.5	90	-44.5	PASS	
0.503	36.6	10.2	46.8	80	-33.2	PASS	

150 KHz – 1 MHz Perpendicular



150 KHz – 1 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Magnetic Field 3m Distance

Top Peaks Parallel 1-30MHz

Notes:

802.11g High CH

Data rate MCS 12

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

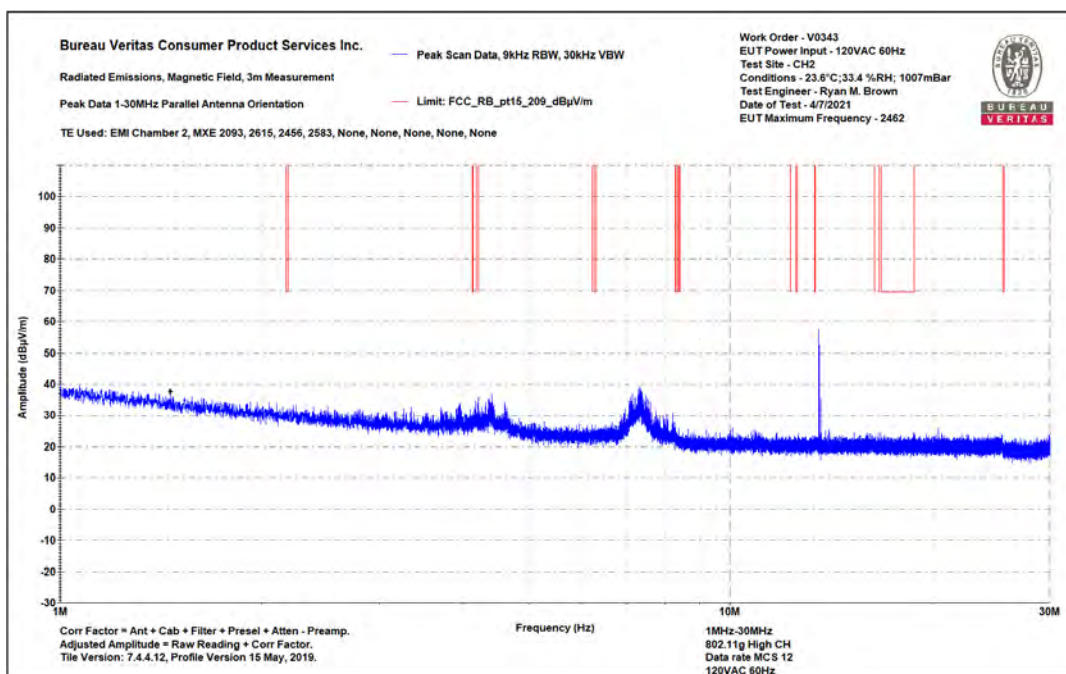
Conditions - 23.6°C; 33.4 %RH; 1007mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/7/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
2.183925	21.4	10.5	31.9	69.5	-37.6	PASS	-37.6
4.126925	19	10.6	29.6	69.5	-39.9	PASS	
8.2935	11.2	10.8	22	69.5	-47.5	PASS	

1 MHz – 30MHz Parallel



1 MHz – 30MHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Perpendicular 1-30MHz

Notes:

802.11g High CH

Data rate MCS 12

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

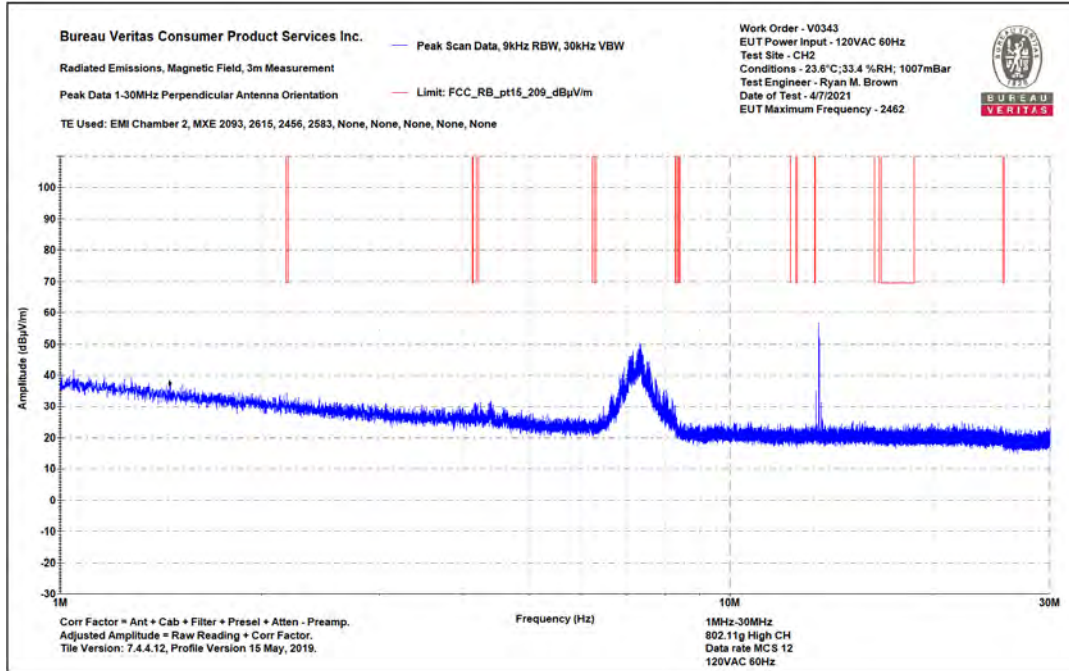
Conditions - 23.6°C; 33.4 %RH; 1007mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/7/2021

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_20 9_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
2.179575	23.5	10.5	34	69.5	-35.5	PASS	-35.5
4.126925	16.5	10.6	27.1	69.5	-42.4	PASS	
8.291325	17.8	10.8	28.6	69.5	-40.9	PASS	

1 MHz – 30 MHz Perpendicular



1 MHz – 30 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

30-1000MHz Vertical Data

Notes:

802.11g High CH

Data Rate: 12

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

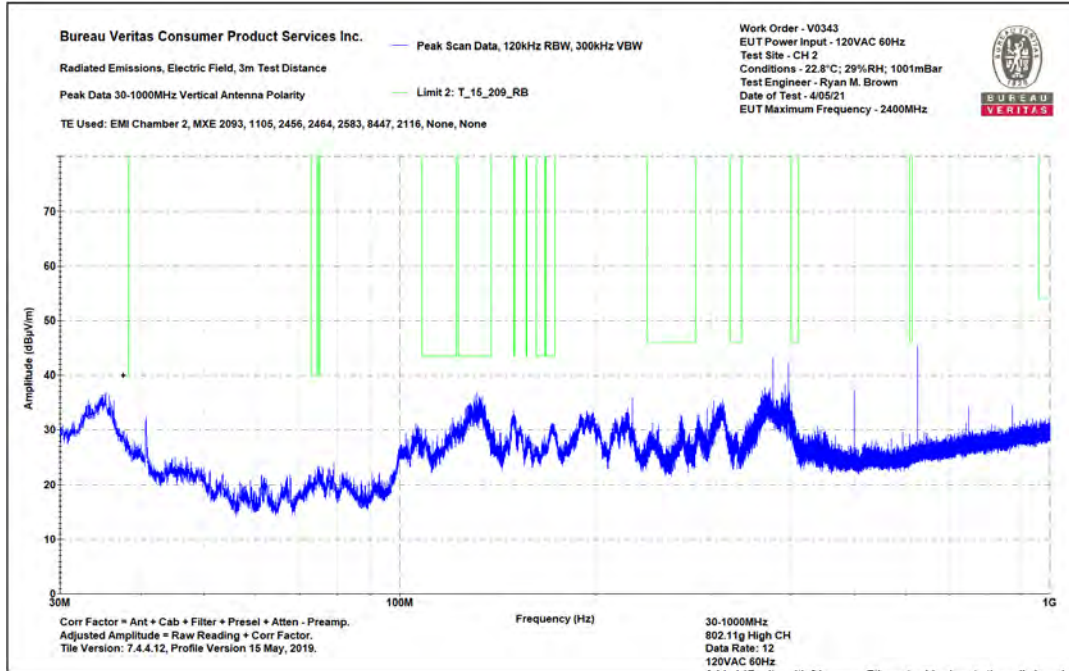
Conditions - 22.8°C; 29%RH; 1001mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/05/21

Frequency (MHz)	Raw QP Reading (dBµV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBµV/m)	Lim1: FCC_pt15_209 (dBµV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
120.96	38.04	-3.01	35.03	43.5	-8.47	PASS		107	25
128.4	39.93	-5.45	34.48	43.5	-9.02	PASS		100	5
166.57	34.97	0.87	35.84	43.5	-7.66	PASS		163	336
111.04	35.31	-2.23	33.08	43.5	-10.42	PASS		106	25
285.37	33.95	4.53	38.48	46	-7.52	PASS	-7.52	102	0
169.99	37.84	-3.1	34.74	43.5	-8.76	PASS		102	174

30 – 1000 MHz Vertical



30 – 1000 MHz Vertical

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

30-1000MHz Horizontal Data

Notes:

802.11g High CH

Data Rate: 12

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

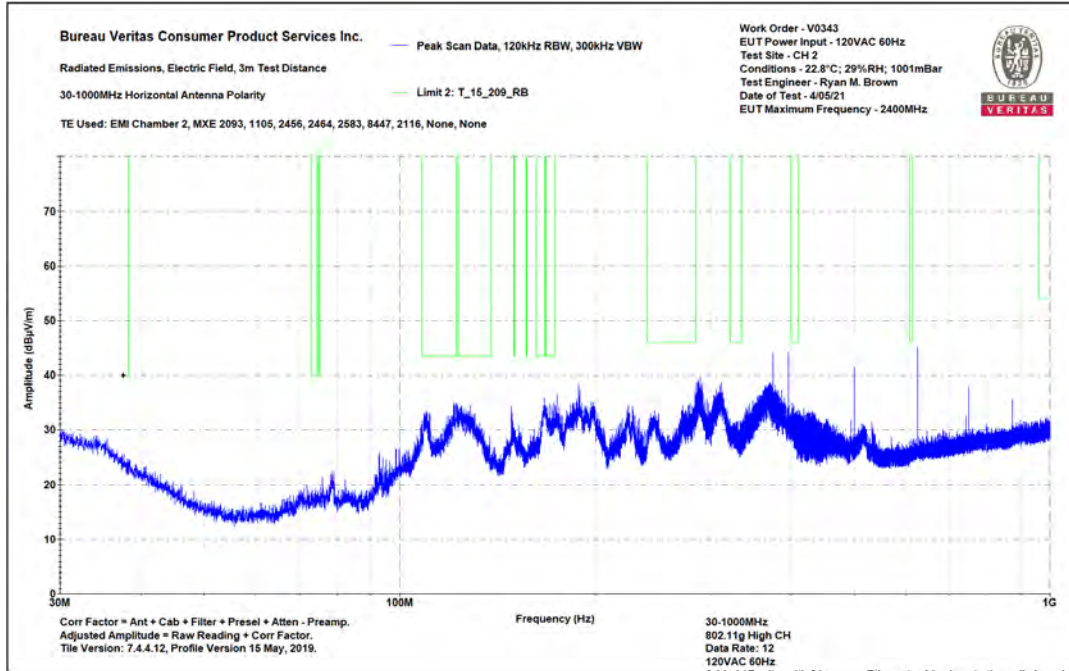
Conditions - 22.8°C; 29%RH; 1001mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/05/21

Frequency (MHz)	Raw QP Reading (dBμV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBμV/m)	Lim1: FCC_pt15_20 9 (dBμV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
111.04	41.46	-8.38	33.08	43.5	-10.42	PASS		102	340
128.4	41.4	-6.92	34.48	43.5	-9.02	PASS		102	25
120.96	42.23	-7.2	35.03	43.5	-8.47	PASS		133	20
166.57	44.62	-8.78	35.84	43.5	-7.66	PASS		100	0
285.37	45.46	-6.98	38.48	46	-7.52	PASS	-7.52	100	312
169.99	43.83	-9.09	34.74	43.5	-8.76	PASS		100	37

30- 1000 MHz Horizontal



30- 1000 MHz Horizontal

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 3m Distance
1-6GHz Vertical Data

Notes:

802.11g High CH

Data Rate: 12

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

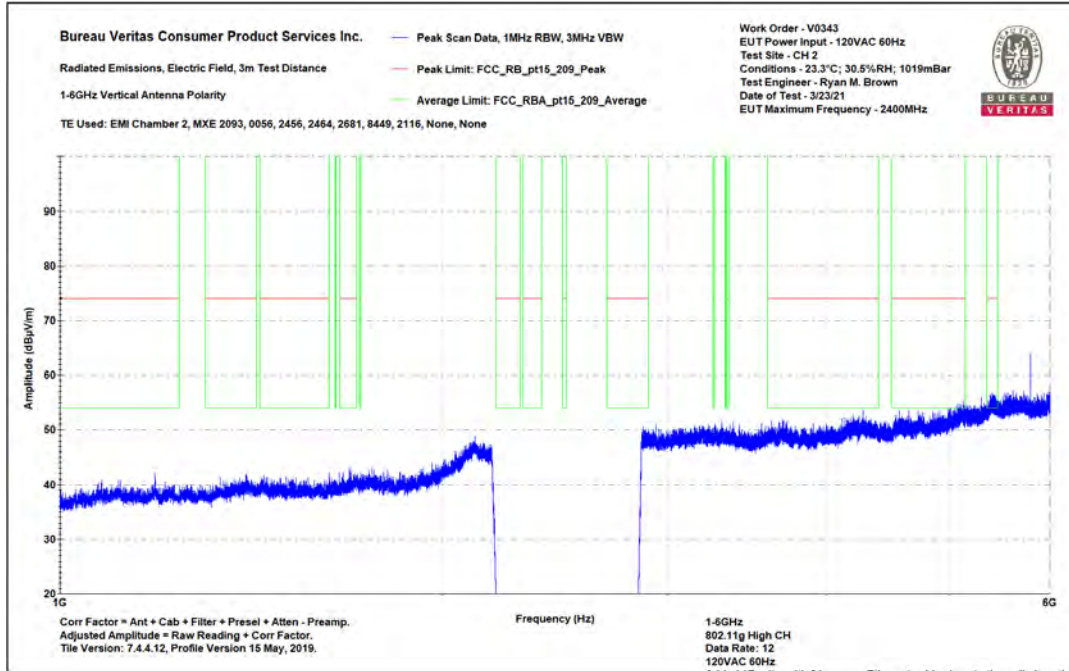
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)
1186.4	44.4	36.2	-7	37.4	74	-36.6	PASS		29.2	54	-24.8	PASS	
4275.5	43.9	33.6	7.6	51.5	74	-22.5	PASS		41.2	54	-12.8	PASS	
4567.7	46.3	46.3	7	53.3	74	-20.7	PASS	-20.7	53.3	54	-0.7	PASS	-0.7

1 – 6 GHz Vertical



1 – 6 GHz Vertical

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

1-6GHz Horizontal Data

Notes:

802.11g High CH

Data Rate: 12

Added 1Ferrite with 2 loops on Ethernet cable close to the radio board and one fair-rite strait through on the ethernet cable

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH 2

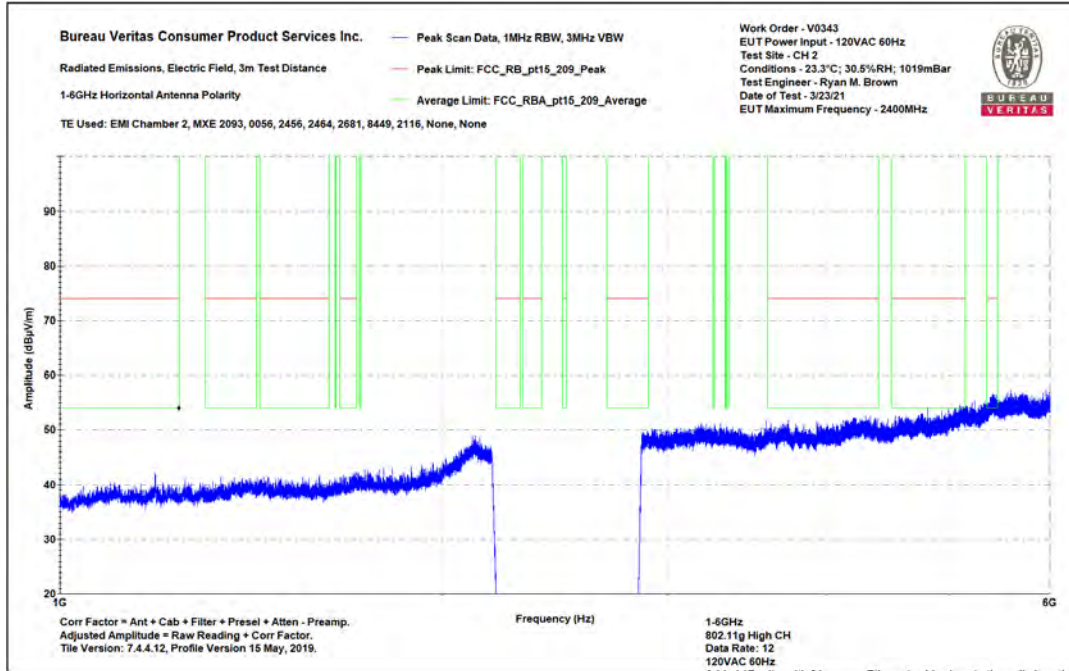
Conditions - 23.3°C; 30.5%RH; 1019mBar

Test Engineer - Ryan M. Brown

Date of Test - 3/23/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_209_Peak (dBμV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_209_Average (dBμV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Average Margin (dB)
1189.1	46.1	36.7	-7	39.1	74	-34.9	PASS		29.8	54	-24.2	PASS	
4336.5	42.6	42.6	7.6	50.2	74	-23.8	PASS		50.2	54	-3.8	PASS	
4537.7	43.8	43.8	7	50.8	74	-23.2	PASS		50.8	54	-3.2	PASS	-3.2

1 – 6 GHz Horizontal



1 – 6 GHz Horizontal

Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 1m Distance

6-18GHz Vertical Data

Notes:

802.11g High CH

Data rate 12

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 50Hz

Test Site - CH2

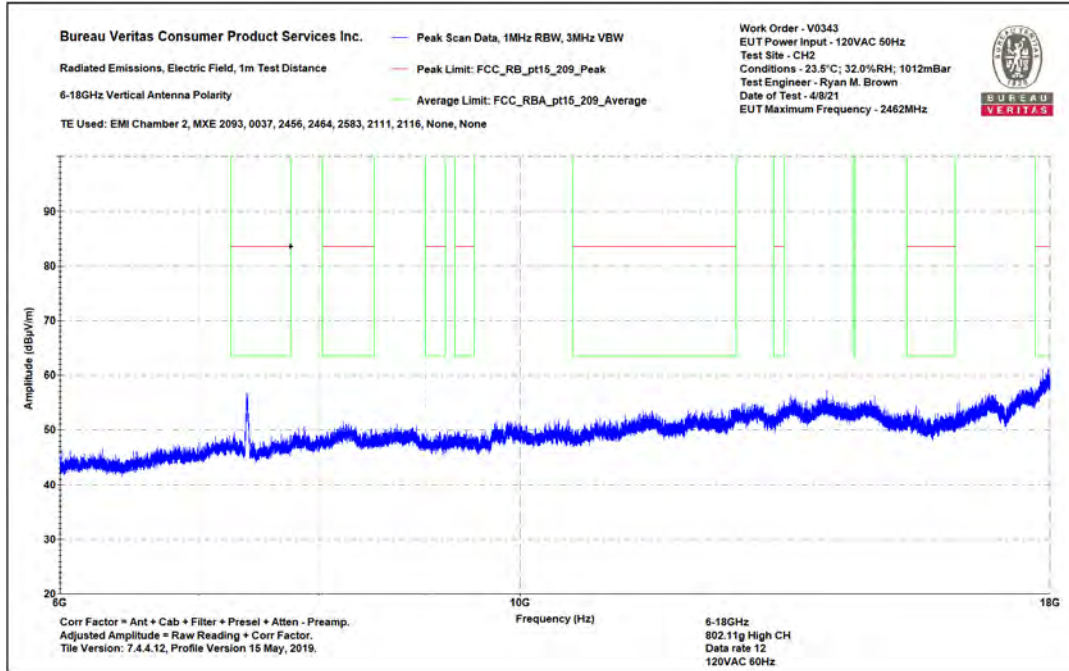
Conditions - 23.5°C; 32.0%RH; 1012mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/8/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Results (Pass/Fail)	Worst Avg Margin (dB)
7378.5	53.1	43.5	0.9	54	83.5	-29.5	PASS		44.4	63.5	-19.1	PASS	
8212.7	45.2	34.9	2.5	47.7	83.5	-35.8	PASS		37.4	63.5	-26.1	PASS	
17960	43.3	33.4	14.5	57.8	83.5	-25.7	PASS	-25.7	47.8	63.5	-15.7	PASS	-15.7

6 – 18 GHz Vertical



6 – 18 GHz Vertical

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 1m Distance
6-18GHz Horizontal Data

Notes:

802.11g High CH

Data rate 12

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 50Hz

Test Site - CH2

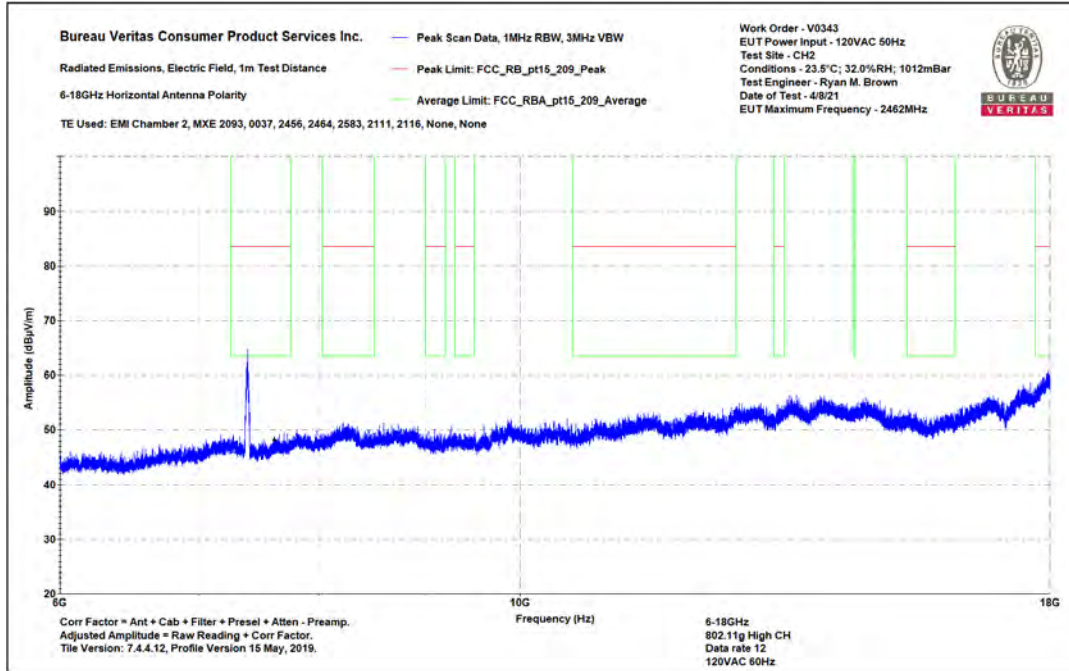
Conditions - 23.5°C; 32.0%RH; 1012mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/8/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Raw Avg Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Pk Lim: FCC_pt15_20 9_Peak (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Peak Margin (dB)	Adjusted Avg Amplitude (dBμV/m)	Av Lim: FCC_pt15_20 9_Average (dBμV/m)	Avg Margin (dB)	Avg Test Results (Pass/Fail)	Worst Avg Margin (dB)
7384.5	61.8	50	0.9	62.7	83.5	-20.8	PASS	-20.8	50.9	63.5	-12.6	PASS	
11471.1	48.6	48.6	4.8	53.4	83.5	-30.1	PASS		53.4	63.5	-10.1	PASS	-10.1
17953.7	41.9	33.4	14.5	56.4	83.5	-27.1	PASS		47.9	63.5	-15.6	PASS	

6 – 18 GHz Horizontal

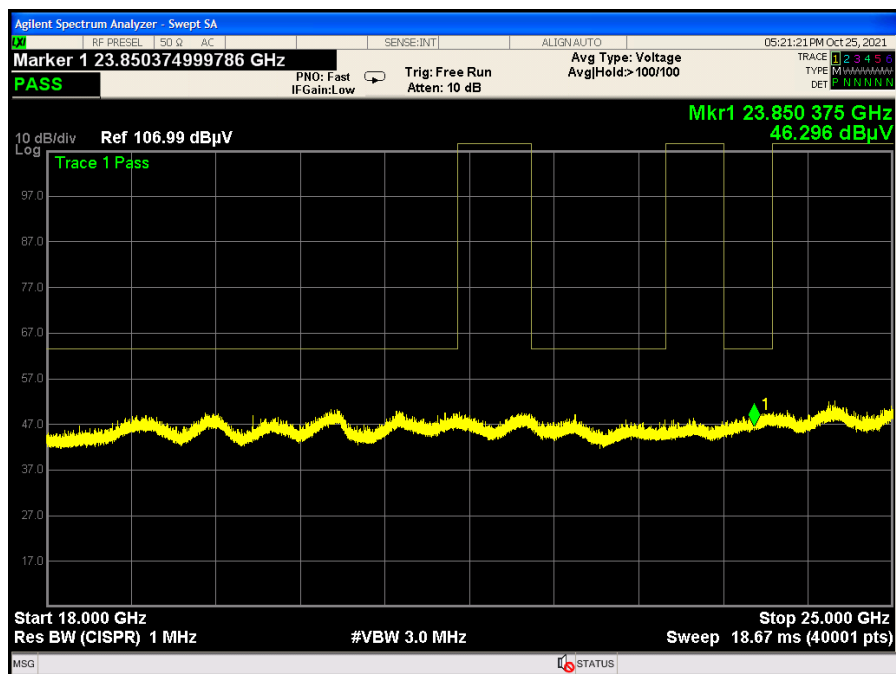


6 – 18 GHz Horizontal

Radiated Emissions Table

Date: 10-Apr-21				Company: BEVI				Work Order: V0343										
Engineer: Ryan M. Brown				EUT Desc: Standup Bevi, V2 product				EUT Operating Voltage/Frequency: 120VAC										
Temp:				Humidity:				Pressure:										
Frequency Range: 18-25GHz								Measurement Distance: 0.1 m										
Notes: 802.11g Data Rate: 12 High Ch								EUT Max Freq: 2462										
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 Class B High Frequency - Peak			FCC Class B 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					---	---	---	---	---	---	---	---	---	---	---			
Table Result:				---		by		---		dB		Worst Freq:			---		MHz	
Test Site: EMI Chamber 2				Cable 1: Asset #2323				Cable 2: ---				Cable 3: ---						
Analyzer: Rental SA#1				Preamp: 18-26.5GHz				Antenna: 18-26.5GHz Horn				Preselector: ---						
CSsoft Radiated Emissions Calculator v 1.017.217																		
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor																		
Copyright Curtis-Straus LLC 2000																		

18 – 25 GHz



18 – 25 GHz

802.11n Low Channel Data Rate

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Parallel 9-150kHz

Notes:

802.11n Low CH

Data rate 3

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC

Test Site - CH2

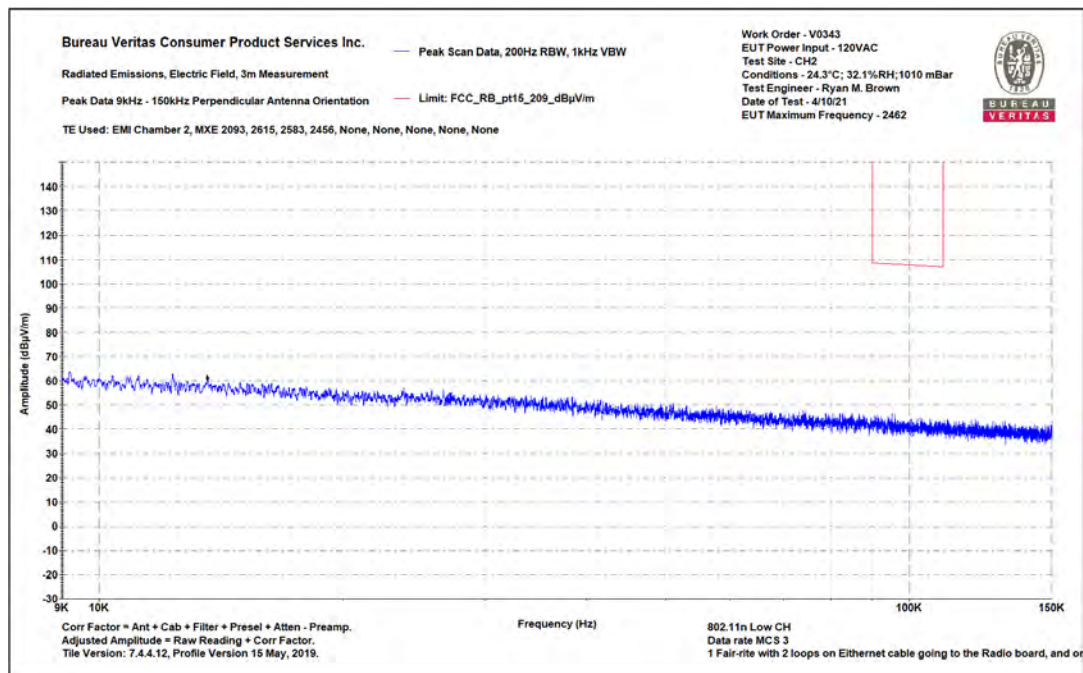
Conditions - 24.3°C; 32.1%RH;1010 mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/10/21

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.09298	34.92	10.5	45.42	107.6	-62.18	PASS	-62.18
0.1001	34.92	10.1	45.02	107.6	-62.58	PASS	
0.11	29.8	10.1	39.9	106.7	-66.8	PASS	

9 – 150 KHz Parallel



9 – 150 KHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Perpendicular 9-150kHz

Notes:

802.11n Low CH

Work Order - V0343

EUT Power Input - 120VAC

Test Site - CH2

Conditions - 24.3°C; 32.1%RH; 1010 mBar

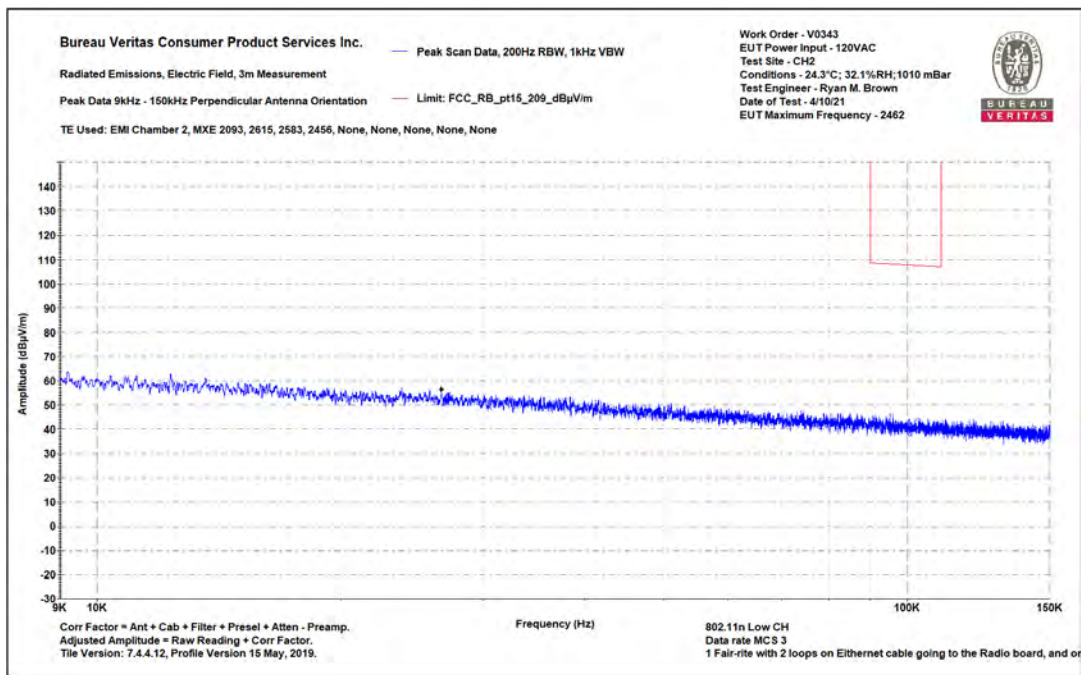
Test Engineer - Ryan M. Brown

Date of Test - 4/10/21

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.095193	36.1	10.3	46.4	108	-61.6	PASS	-61.6
0.09	31.61	10.1	41.71	108.5	-66.79	PASS	
0.10006	27.87	10.1	17.77	107.6	-89.83	PASS	

9 – 150 KHz Perpendicular



9 – 150 KHz Perpendicular

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Parallel 150-1000kHz

Notes:

802.11n Low CH

Data rate MCS 3

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

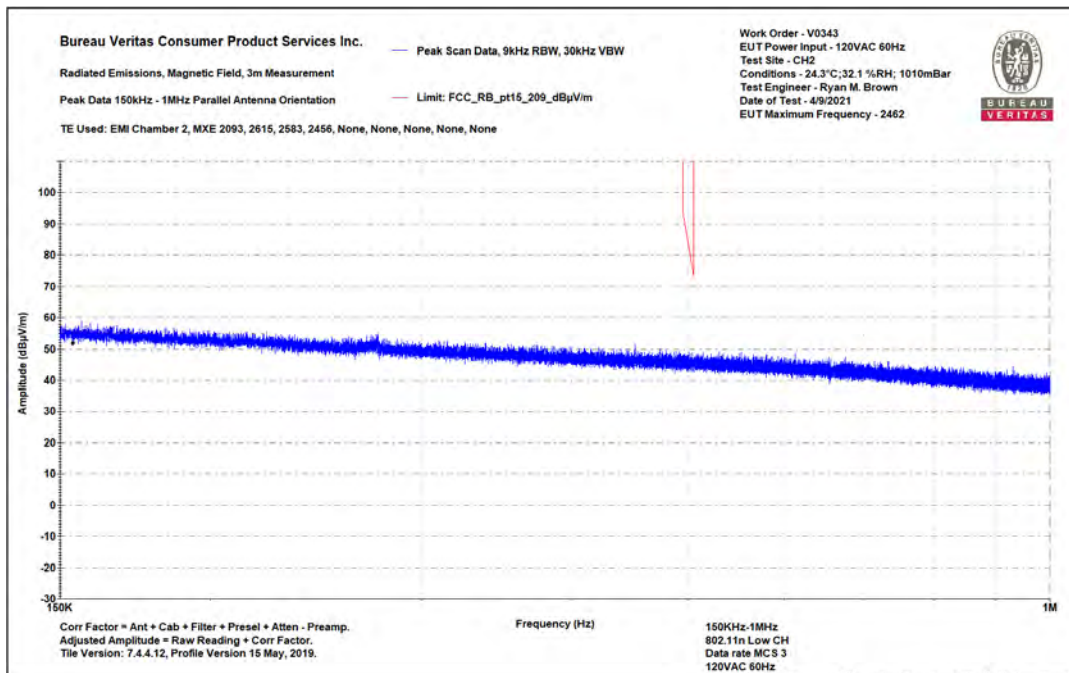
Conditions - 24.3°C; 32.1 %RH; 1010mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
0.495	33.7	10.2	43.9	93.8	-49.9	PASS	
0.496	34.8	10.2	45	90	-45	PASS	
0.5017	36.8	10.2	47	80	-33	PASS	-33

150 KHz – 1 MHz Parallel



150 KHz – 1 MHz Parallel

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Perpendicular 150-1000kHz

Notes:

802.11n Low CH

Data rate MCS 3

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going straight through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

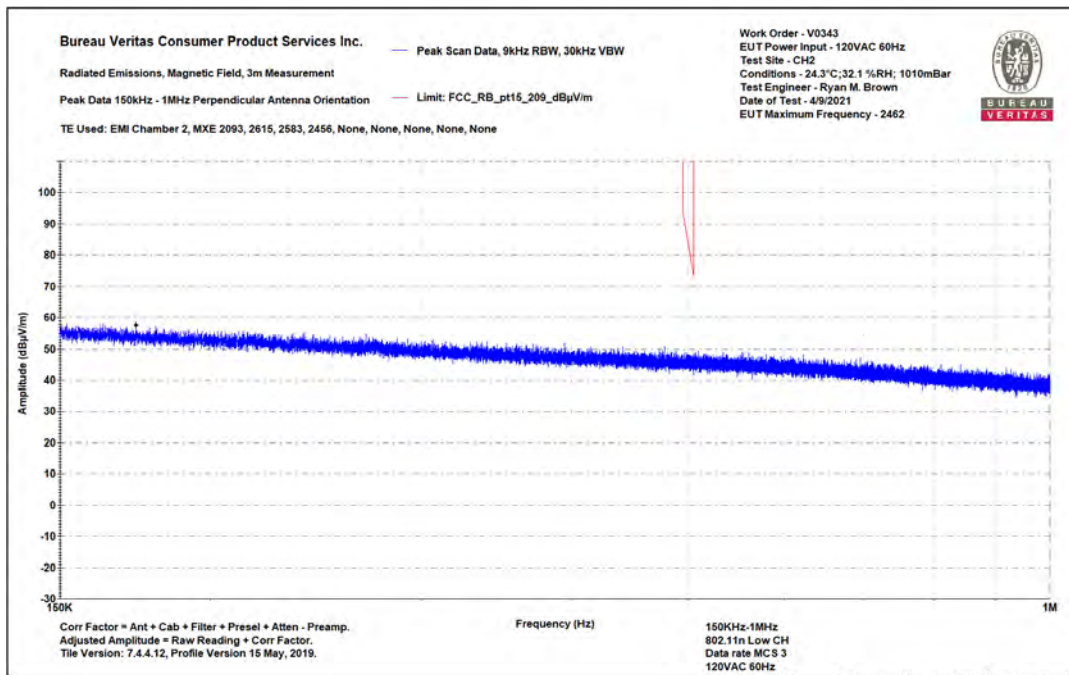
Conditions - 24.3°C; 32.1 %RH; 1010mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/9/2021

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)	EUT Azimuth (degrees)
0.504	35.8	10.2	46	73.5	-27.5	PASS	-27.5	240
0.4968	36.3	10.2	46.5	90	-43.5	PASS		165
0.5017	37.3	10.2	47.5	80	-32.5	PASS		0

150 KHz – 1 MHz Perpendicular



150 KHz – 1 MHz Perpendicular

Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Magnetic Field 3m Distance
Top Peaks Parallel 1-30MHz

Notes:

802.11n Low CH

Data rate MCS 3

1 Fair-rite with 2 loops on Ethernet cable going to the Radio board,
and one fair-rite with the ethernet cable going strait through.

Work Order - V0343

EUT Power Input - 120VAC 60Hz

Test Site - CH2

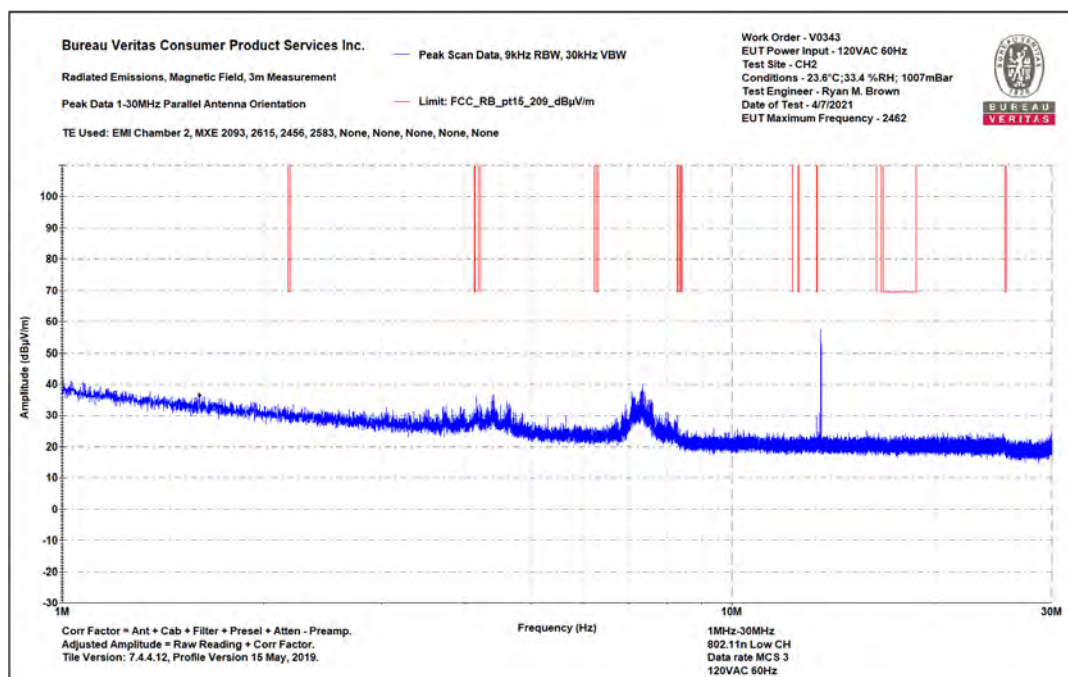
Conditions - 23.6°C;33.4 %RH; 1007mBar

Test Engineer - Ryan M. Brown

Date of Test - 4/7/2021

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_20 9_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)
4.1262	19.1	10.6	29.7	69.5	-39.8	PASS	
6.3033	14.4	10.8	25.2	69.5	-44.3	PASS	
8.2913	18.9	10.9	29.8	69.5	-39.7	PASS	-39.7

1 MHz – 30MHz Parallel



1 MHz – 30MHz Parallel