

MRT Technology (Taiwan) Co., Ltd

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MEASUREMENT REPORT

FCC PART 15.247 WLAN 802.11n

FCC ID: TFJA20GV

APPLICANT: Uniform Industrial Corp.

Application Type: Certification

Product: Asante Garage Viewer

Model No.: 99-00859-US

Trademark:

FCC Classification: (DTS) Digital Transmission System

FCC Rule Part(s): Part 15.247

Test Procedure(s): ANSI C63.10-2013, KDB 558074 D01v04

Test Date: May 14~ Aug 17, 2018

Tested By : Peter Syu

(Peter Syu)

Reviewed By : Paddy Chen

(Paddy Chen)

Approved By : any ker

(Chenz Ker)



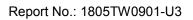


The test results only relate to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01v04. Test results reported herein relate only to the item(s) tested.

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Revision History

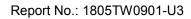
Report No.	Version	Description	Issue Date	Note
1805TW0901-U3	1.0	Original Report	2018-08-22	

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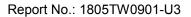
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§2.1033 General Information

Applicant	Uniform Industrial Corp.			
Applicant Address	47341 Bayside Parkway, Fremont, California 94538, United States			
Manufacturer	Uniform Industrial Corp.			
Manufacturer Address	1F, No.1, Lane 15, Ziqiang St., Tucheng Dist., New Taipei City 236, Taiwan, R.O.C			
Test Site	MRT Technology (Taiwan) Co., Ltd			
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)			
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering			

Test Facility / Accreditations

- 1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Film.
- 2. MRT facility is an IC registered (MRT Reg. No. 21723-1) test laboratory with the site description on file at Industry Canada.
- MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Taiwan, EU and TELEC Rules.

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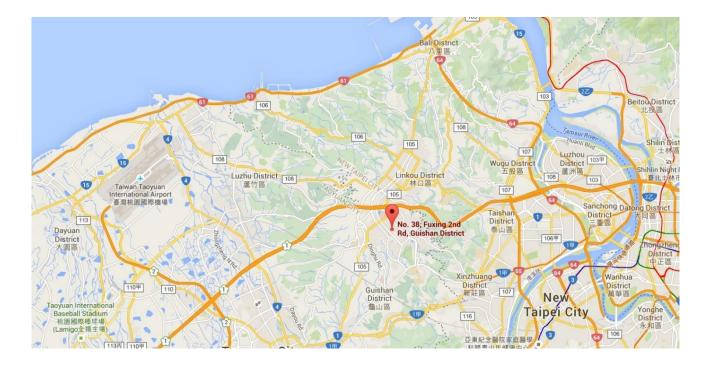
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



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2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Asante Garage Viewer			
Model No.	99-00859-US			
Trade Mark	DUIC °			
Supports Radios Spec.	WLAN: 2.4G: 802.11n-20/n-40; 433.33MHz			
Wi-Fi Specification	802.11n			
	2.4GHz:			
Frequency Range	For 802.11n-HT20: 2412 ~ 2462 MHz			
	For 802.11n-HT40: 2422 ~ 2452 MHz			
2.4GHz Maximum	802.11n-HT20: 24.94dBm			
Output Power	802.11n-HT40: 24.46dBm			
Type of Modulation	802.11n-20M/n-40M: OFDM, BPSK, QPSK, 16QAM, 64QAM			
	Brand Name: AMIGO			
	Model: AMS135-0502000FU			
Power Adapter (1)	Input: AC 100-240V~0.5A, 50-60Hz			
	Output: DC 5V-2.0A			
	DC Cable Out Non-Shielding, 1.5m			
	Brand Name: Powertron Elecironics Corp.			
	Model: PA1015-050HUB200			
Power Adapter (2)	Input: AC 100-240V~0.4A, 50-60Hz			
	Output: DC 5V-2.0A			
	DC Cable Out Non-Shielding, 1.5m			

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2.2. Working Frequencies for this Report

802.11n-20M

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz		

802.11n-40M

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz				

Duty Cycle

Test Mode	Duty Cycle	
802.11 n-20M	100%	
802.11 n-40M	100%	

2.3. Test Mode

Test Mode	Mode 1: Transmit by 802.11n-20M
	Mode 2: Transmit by 802.11n-40M

Note:

1. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.

2.4. Test Software

The test utility software used during testing was "MPTool".

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2.5. Test Configuration

This device was tested per the guidance of ANSI C63.10-2013 and DA 00-705. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.6. EMI Suppression Device(s)/Modifications

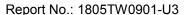
No EMI suppression device(s) were added and/or no modifications were made during testing.

2.7. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

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3. DESCRIPTION of TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v04 were used in the measurement of the device.

Deviation from measurement procedure......None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 9'x4'x3' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, $50\Omega/50$ uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment which determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.8.

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3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable. For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, which produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

Radiated emissions test results are shown in Section 7.6 & 7.7.

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4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of the **Asante Garage Viewer**, is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT unit complies with the requirement of §15.203.

Antenna List

N	No. Manufacturer		Part No.	Antenna Type	Peak Gain
	1	WHA YU GROUP	C1295-510008-A	PCB	4.99dBi

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5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2019/3/20
Cable	Rosnol	N1C50-RG400- B1C50-500CM	MRTTWE00013	1 year	2019/5/18
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2019/3/19

Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2019/5/22
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2019/3/19
Acitve Loop Antenna	Schwarzbeck	FMZB 1519B	MRTTWA00002	1 year	2019/4/24
Broadband Horn antenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2019/4/24
Breitband Hornantenna	Schwarzbeck	BBHA 9170	MRTTWA00004	1 year	2019/4/23
Broadband Amplifier	Schwarzbeck	BBV 9721	MRTTWA00006	1 year	2019/4/23
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2019/4/23
Cable	HUBERSUHNER	SF106	MRTTWA00010	1 year	2019/5/18
Cable		K1K50-UP0264-	MOTTAVAGGGAG	,	0040/7/00
Cable	Rosnol	K1K50-4M	MRTTWA00012	1 year	2019/7/30

Conducted Test Equipment – SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2019/7/30
USB Wideband Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2019/3/20

Test Software

Software	Version	Function	
e3	9.160520a	EMI Test Software	
ЕМІ	V3	EMI Test Software	

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6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement - SR2

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

150kHz~30MHz: 2.42dB

Conducted Measurement-SR1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.3dB

Radiated Emission Measurement - AC1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

Horizontal: 9K~30MHz: 4.14dB

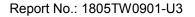
30MHz~1GHz: 4.22dB

1GHz~40GHz: 4.05dB

Vertical: 9K~30MHz: 4.14dB

30MHz~1GHz: 3.37dB 1GHz~40GHz: 4.08dB

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7. TEST RESULT

7.1. Summary

Product Name: Asante Garage Viewer

FCC Classification: (DTS) Digital Transmission System

Data Rate(s) Tested: 6.5/7.2Mbps ~ 130/144.4Mbps (n-20M);

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	≥ 500kHz		Pass	Section
13.247 (a)(2)	oub bandwidth	= 300KH2		1 433	7.2
15 247(b)(2)	Output Power	≤ 30.00dBm		Pass	Section
15.247(b)(3)	Output Fower	≥ 30.00dbiii	Conducted	F 455	7.3
15 247(0)	Dower Spectral Density	≤ 8.00dBm/3kHz	Conducted	Pass	Section
15.247(e)	Power Spectral Density	≥ 0.00dbH/3kHZ		F455	7.4
15 047(d)	Out of Rand Emissions	Conducted > 20dDo		Dana	Section
15.247(d)	Out-of-Band Emissions	Conducted ≥ 20dBc		Pass	7.5
15.205	Courious Emission	< FCC 15 200 limita		Dana	Section
15.209	Spurious Emission	< FCC 15.209 limits	Dadiated	Pass	7.6
15.205	Band Edge	≤ 74dBuV/m(Peak)	Radiated	Daga	Section
15.209	Measurement	≤ 54dBuV/m(Average)		Pass	7.7
	AC Conducted		Lina		Coation
15.207	Emissions	< FCC 15.207 limits	Line	Pass	Section
	150kHz - 30MHz		Conducted		7.8

Notes:

- 1) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

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7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

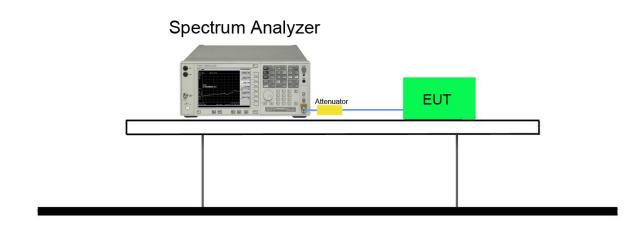
7.2.2. Test Procedure used

KDB 558074 D01v04- Section 8.2 Option 2

7.2.3. Test Setting

- 1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. Set RBW = 100 kHz
- 3. VBW \geq 3 × RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. Allow the trace was allowed to stabilize

7.2.4. Test Setup



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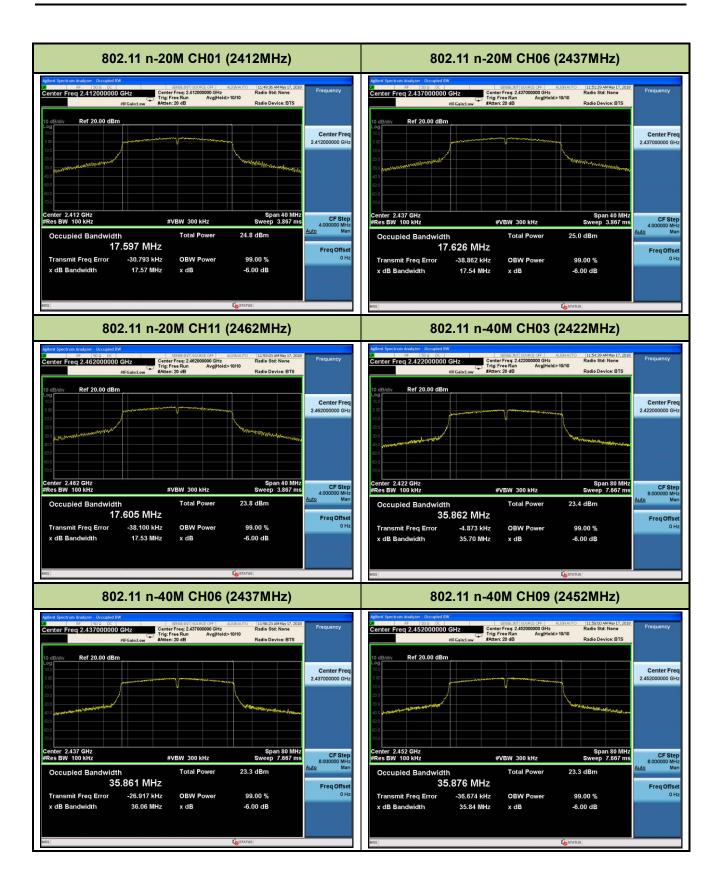


7.2.5. Test Result

Test Mode	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11n-20M	01	2412	17.57	17.597	≥ 0.5	Pass
802.11n-20M	06	2437	17.54	17.626	≥ 0.5	Pass
802.11n-20M	11	2462	17.53	17.605	≥ 0.5	Pass
802.11n-40M	03	2422	35.70	35.862	≥ 0.5	Pass
802.11n-40M	06	2437	36.06	35.861	≥ 0.5	Pass
802.11n-40M	09	2452	35.84	35.876	≥ 0.5	Pass

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7.3. Output Power Measurement

7.3.1. Test Limit

The maximum out power shall be less 1 Watt (30dBm).

7.3.2. Test Procedure Used

KDB 558074 D01v04 - Section 9.1.2 & 9.2.3.2

7.3.3. Test Setting

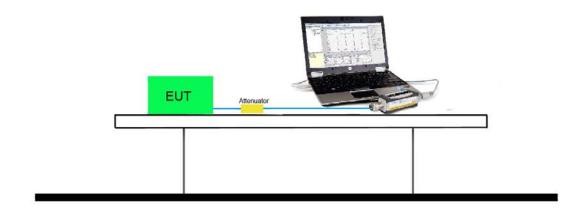
Peak Power Measurement

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.3.4. Test Setup



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7.3.5. Test Result of Output Power

		2.4G	2.4GHz 802.11n-20M RF Output Power (dBn					(dBm)		
				А	verage	e Powe	er			Peak	
Channel No.	Frequency (MHz)		Fo	or differ	ent Da	ıta Rat	e (Mbp	os)		Power	Required Limit
	(IVII 12)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS0	
01	2412	17.5							-	24.9	1Watt= 30 dBm
06	2437	17.89	17.8	17.72	17.59	17.46	16.84	16.23	15.68	24.94	1Watt= 30 dBm
11	2462	16.7								24.26	1Watt= 30 dBm
		2.4G	Hz 80	2.11n-	40M F	RF Ou	tput F	ower	(dBm)	
	_			Д	verage	e Powe	er			Peak	
Channel No.	Frequency (MHz)		Fo	or differ	•			os)		Power	Required Limit
	(IVIITZ)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS0	
03	2422	16.06							-	24.46	1Watt= 30 dBm
06	2437	15.77	15.77	15.76	15.76	15.76	15.16	14.48	13.95	23.91	1Watt= 30 dBm
09	2452	15.84								23.6	1Watt= 30 dBm

Note: Output power =Reading value on power meter + duty cycle factor + cable loss •

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7.4. Power Spectral Density Measurement

7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

7.4.2. Test Procedure Used

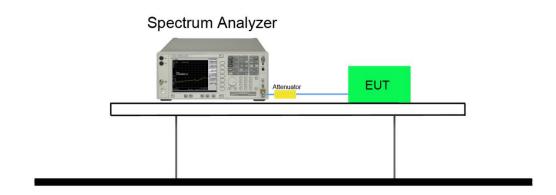
KDB 558074 D01v04 - Section 10.2 Method PKPSD

7.4.3. Test Setting

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: 3 kHz.
- d) Set the VBW \geq 3* RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.

7.4.4. Test Setup



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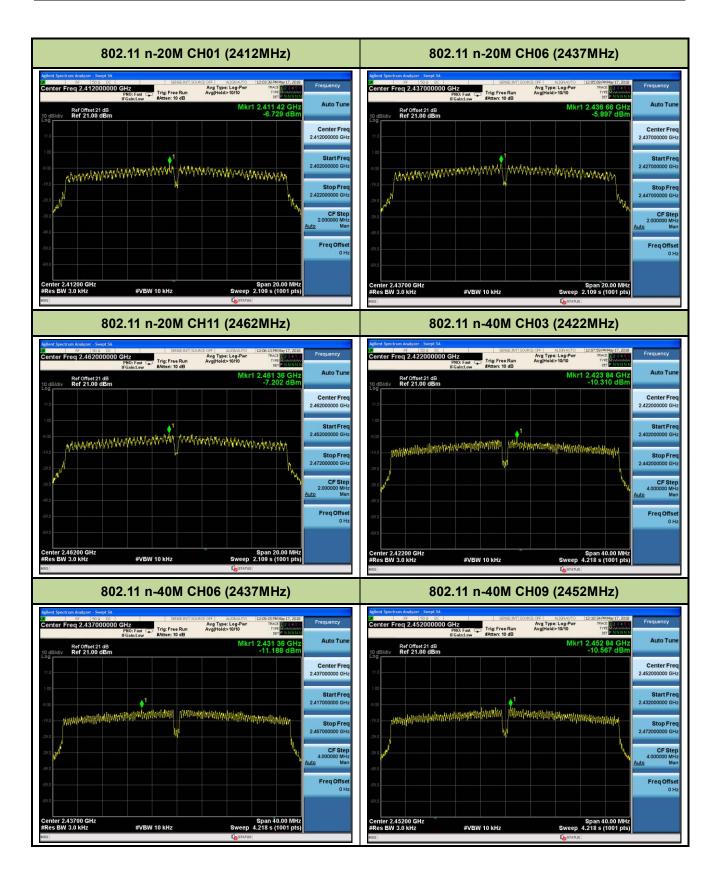


7.4.5. Test Result

Test Mode	Channel No.	Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result
11n-20M	1	2412	-6.729	≤ 8	Pass
11n-20M	6	2437	-5.897	≤ 8	Pass
11n-20M	11	2462	-7.202	≤ 8	Pass
11n-40M	3	2422	-10.310	≤ 8	Pass
11n-40M	6	2437	-11.188	≤ 8	Pass
11n-40M	9	2452	-10.567	≤ 8	Pass

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7.5. Out-of-Band Spurious Emissions Emissions Measurement

7.5.1. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

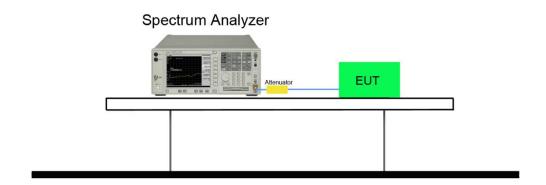
7.5.2. Test Procedure Used

KDB 558074 D01v04- Section 11.1 & 11.2

7.5.3. Test Settitng

- (a) Set instrument center frequency to DTS channel center frequency
- (b) Set the span to ≥ 1.5 times the DTS bandwidth
- (c) Set the RBW = 100 kHz
- (d) Set the VBW ≥ 3 x RBW
- (e) Detector = peak
- (f) Sweep time = auto couple
- (g) Trace mode = max hold
- (h) Allow trace to fully stabilize

7.5.4. Test Setup



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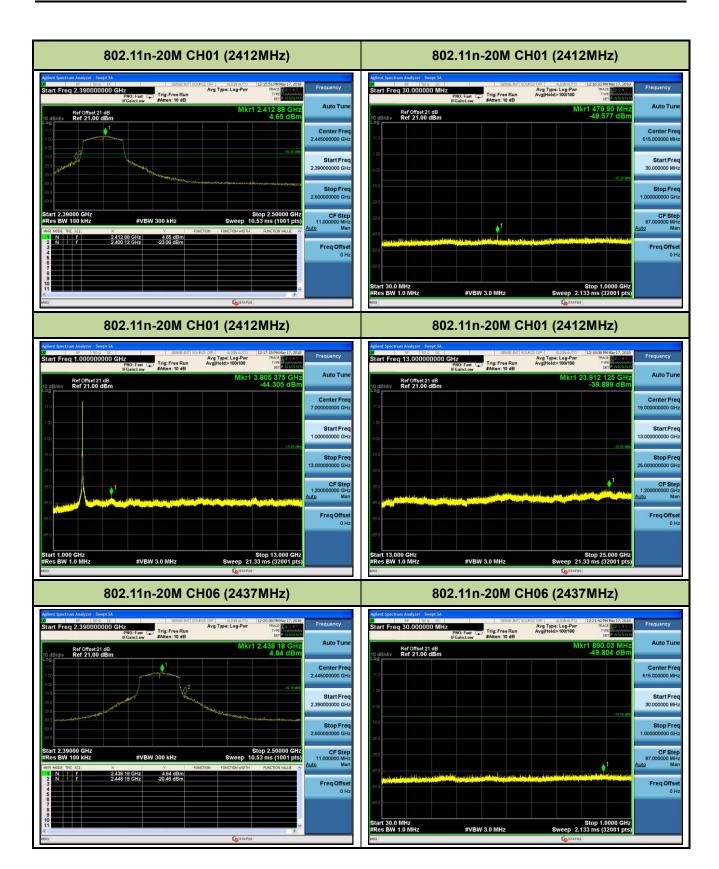


7.5.5. Test Result

Test Mode	Channel No.	Frequency Limit (MHz)		Result
802.11n-20M	01	2412	20dBc	Pass
802.11n-20M	06	2437	20dBc	Pass
802.11n-20M	11	2462	20dBc	Pass
802.11n-40M	03	2422 20dBc		Pass
802.11n-40M	06	06 2437 20dB		Pass
802.11n-40M	09	2452	20dBc	Pass

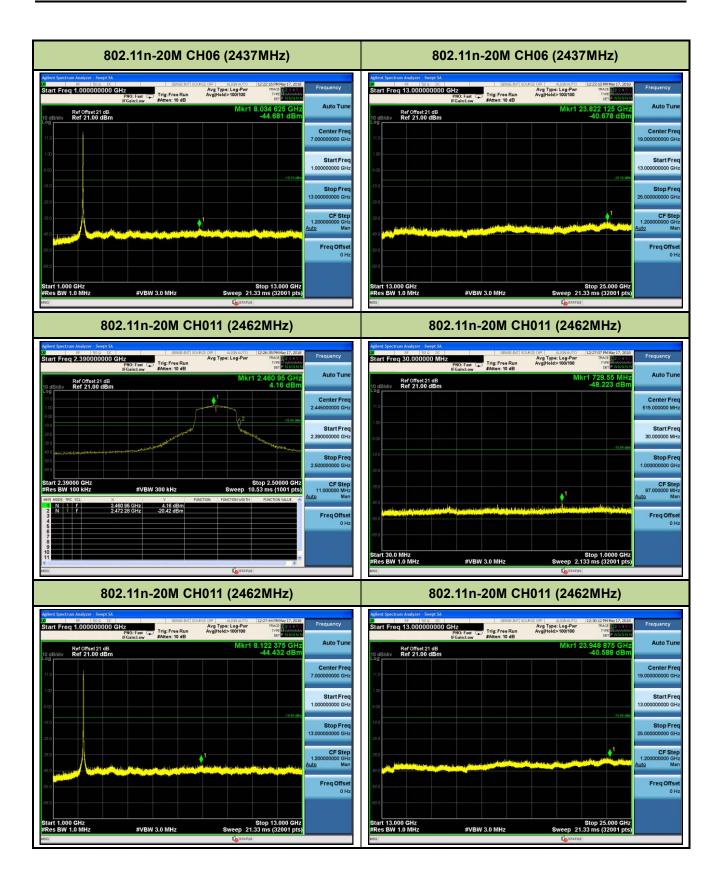
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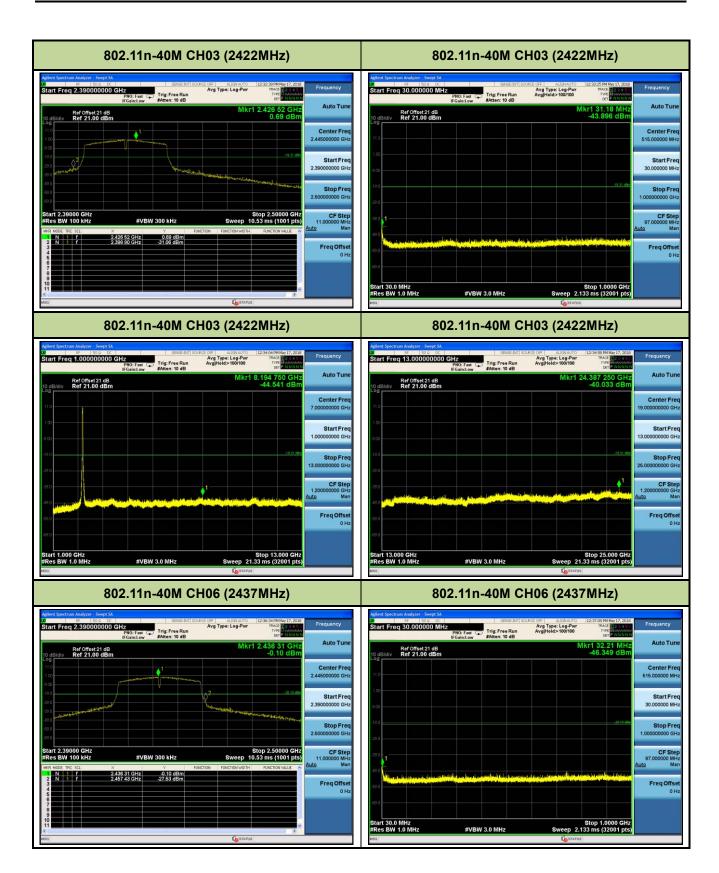
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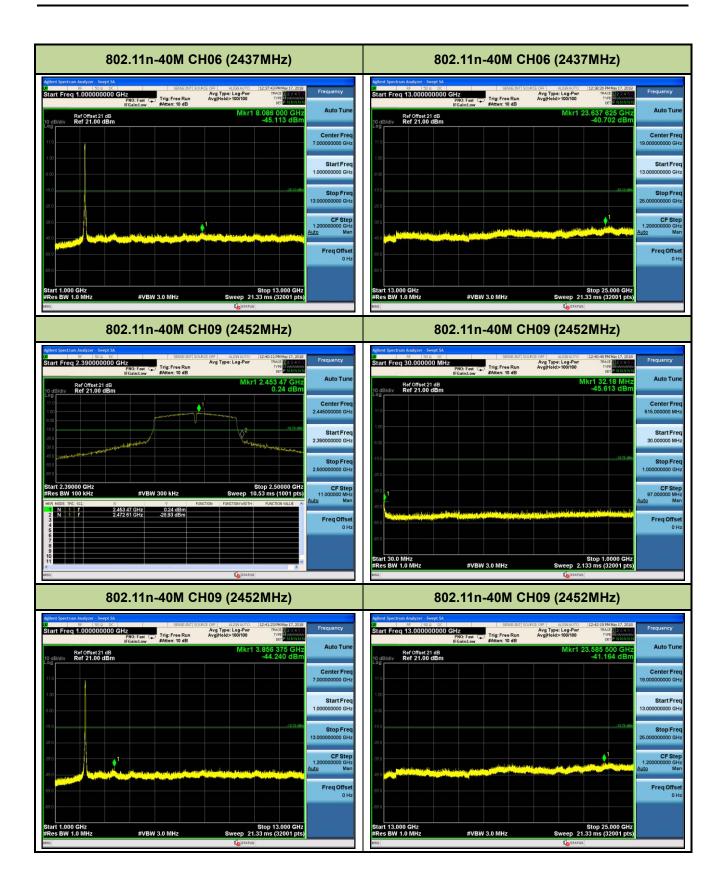
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7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209						
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]				
0.009 - 0.490	2400/F (kHz)	300				
0.490 - 1.705	24000/F (kHz)	30				
1.705 - 30	30	30				
30 - 88	100	3				
88 - 216	150	3				
216 - 960	200	3				
Above 960	500	3				

7.6.2. Test Procedure Used

KDB 558074 D01v04- Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v04- Section 12.2.4 (peak power measurements)

KDB 558074 D01v04- Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in Table 1
- 3.VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple

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- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

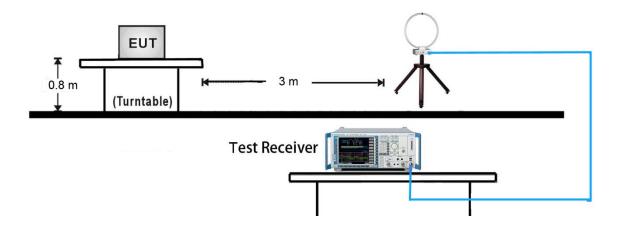
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2.RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

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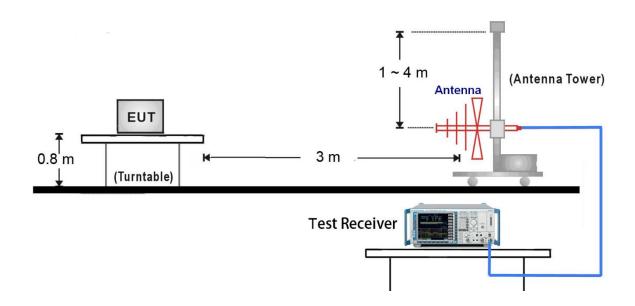


7.6.4. Test Setup

9kHz ~ 30MHz Test Setup:



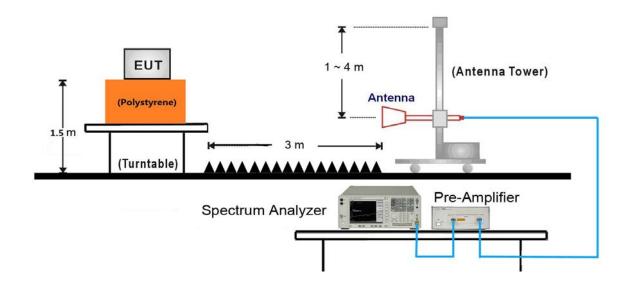
30MHz ~ 1GHz Test Setup:



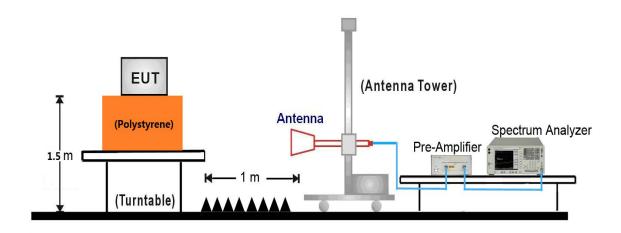
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1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



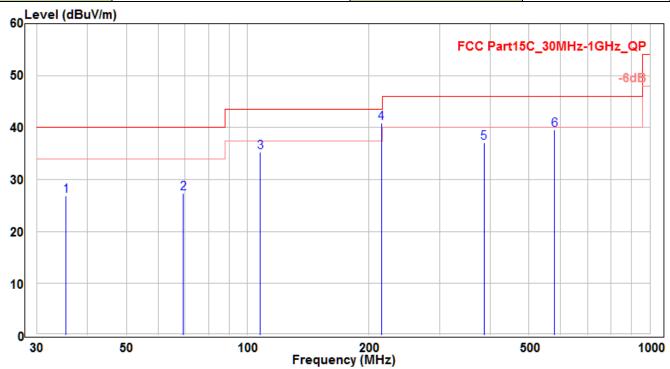
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Report No.: 1805TW0901-U3



7.6.5. Test Result

EUT	Asante Garage Viewer	Test Date	2018/5/14
Factor	VULB 9162 (30MHz~8GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH06	Test Voltage	AC 120V/60Hz



No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		35.396	7.75	19.05	26.8	-13.2	40	100	400	QP
2		69.255	10.58	16.72	27.3	-12.7	40	160	240	QP
3		107.57	16.27	18.95	35.22	-8.28	43.5	175	145	QP
4	*	215.24	21.95	18.92	40.87	-2.63	43.5	130	260	QP
5		386.657	13.17	24	37.17	-8.83	46	185	125	QP
6		579.99	12.23	27.38	39.61	-6.39	46	150	250	QP

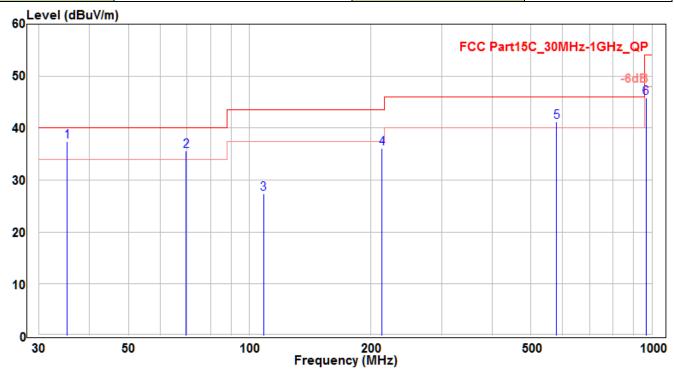
Note:

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Asante Garage Viewer Test Date	
Factor	VULB 9162 (30MHz~8GHz)	Temp. / Humidity	25°C / 60%
Polarity Vertical		Site / Engineer	AC1 / Peter
Test Mode			AC 120V/60Hz



No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	35.274	18.4	19.01	37.41	-2.59	40	110	280	QP
2		69.558	19	16.62	35.62	-4.38	40	115	280	QP
3		108.267	8.45	18.9	27.35	-16.15	43.5	150	240	QP
4		213.482	17.26	18.84	36.1	-7.4	43.5	130	250	QP
5		579.99	13.89	27.38	41.27	-4.73	46	190	360	QP
6		966.656	13.43	32.39	45.82	-8.18	54	100	400	QP

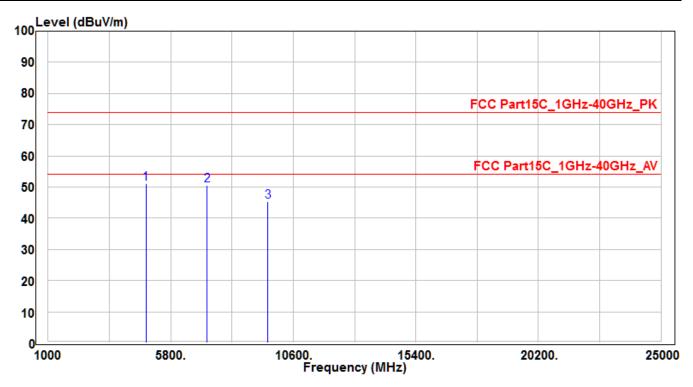
Note:

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%		
Polarity	Horizontal	Site / Engineer	AC1 / Peter		
Test Mode	MODE1 -CH01	Test Voltage	AC 120V/60Hz		



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4824	48.49	2.73	51.22	-22.78	74	150	400	Peak
2		7236	39.04	11.4	50.44	-23.56	74	150	400	Peak
3		9608	30.81	14.47	45.28	-28.72	74	150	400	Peak

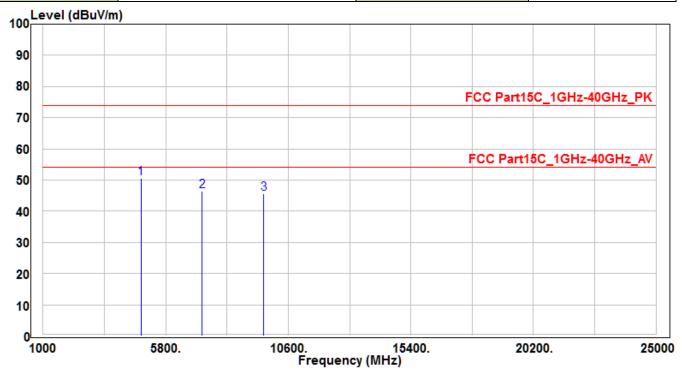
Note:

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%		
Polarity	Vertical	Site / Engineer	AC1 / Peter		
Test Mode	MODE1 -CH01	Test Voltage	AC 120V/60Hz		



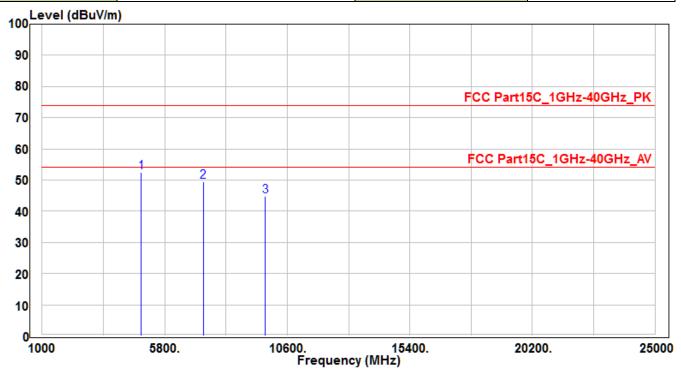
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	4824	47.13	3.36	50.49	-23.51	74	150	400	Peak
2		7236	34.45	11.97	46.42	-27.58	74	150	400	Peak
3		9648	30.62	14.96	45.58	-28.42	74	150	400	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%		
Polarity	Horizontal	Site / Engineer	AC1 / Peter		
Test Mode	MODE1 -CH06	Test Voltage	AC 120V/60Hz		



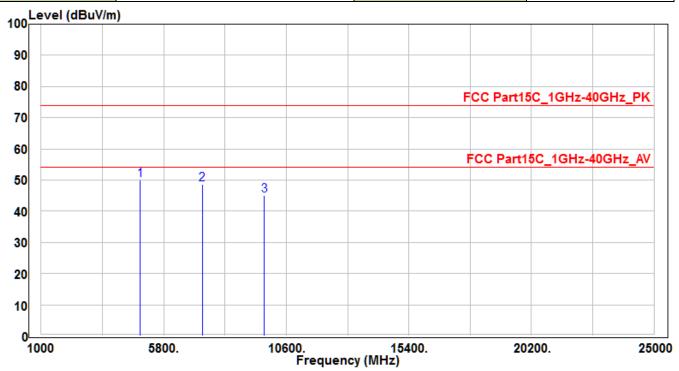
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	4874	48.98	3.47	52.45	-21.55	74	150	400	Peak
2		7311	37.16	12.18	49.34	-24.66	74	150	400	Peak
3		9748	29.48	15.19	44.67	-29.33	74	150	400	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%		
Polarity	Vertical	Site / Engineer	AC1 / Peter		
Test Mode	MODE1 -CH06	Test Voltage	AC 120V/60Hz		



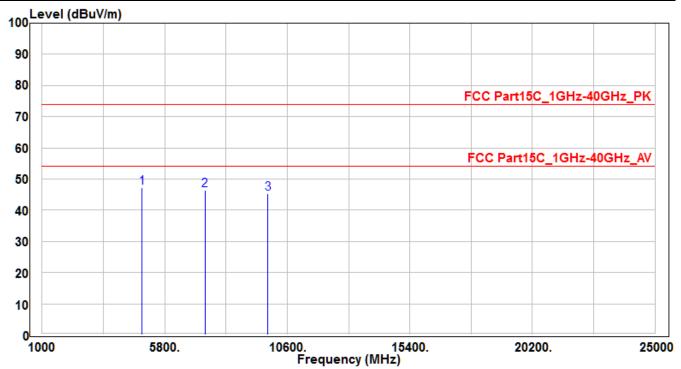
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	4874	46.63	3.47	50.1	-23.9	74	150	400	Peak
2		7311	36.42	12.18	48.6	-25.4	74	150	400	Peak
3		9748	29.81	15.19	45	-29	74	150	400	Peak

- 1. " * " means the worst value in this measurement data $\,^{\circ}$
- 2. Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) ∘
- 3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report $\,^\circ$

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%		
Polarity	Horizontal	Site / Engineer	AC1 / Peter		
Test Mode	MODE1 -CH11	Test Voltage	AC 120V/60Hz		



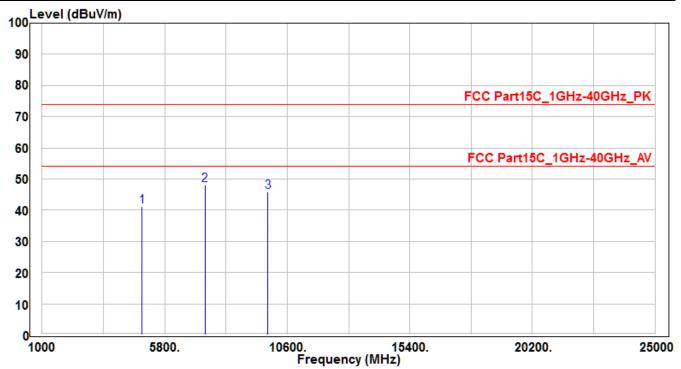
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	4924	43.69	3.58	47.27	-26.73	74	150	400	Peak
2		7386	34	12.39	46.39	-27.61	74	150	400	Peak
3		9848	29.9	15.42	45.32	-28.68	74	150	400	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%		
Polarity	Vertical	Site / Engineer	AC1 / Peter		
Test Mode	MODE1 -CH11	Test Voltage	AC 120V/60Hz		



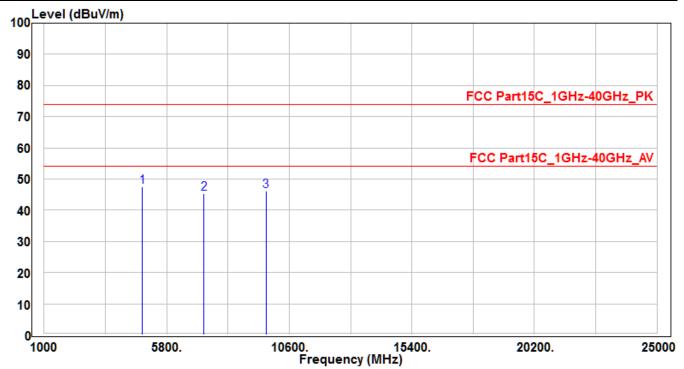
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO	NO	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		4924	37.64	3.58	41.22	-32.78	74	150	400	Peak
2	*	7386	35.58	12.39	47.97	-26.03	74	150	400	Peak
3		9848	30.41	15.42	45.83	-28.17	74	150	400	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%		
Polarity	Horizontal	Site / Engineer	AC1 / Peter		
Test Mode	MODE2-CH03	Test Voltage	AC 120V/60Hz		



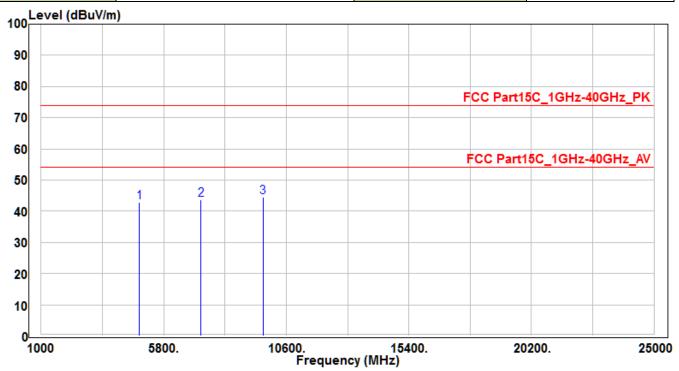
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	4844	44.07	3.41	47.48	-26.52	74	150	400	Peak
2		7266	33.4	12.06	45.46	-28.54	74	150	400	Peak
3		9688	31.06	15.05	46.11	-27.89	74	150	400	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH03	Test Voltage	AC 120V/60Hz



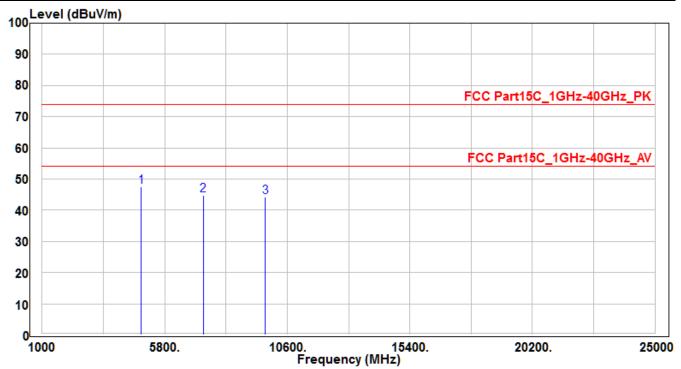
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		4844	39.57	3.41	42.98	-31.02	74	150	400	Peak
2		7266	31.75	12.06	43.81	-30.19	74	150	400	Peak
3	*	9688	29.55	15.05	44.6	-29.4	74	150	400	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH06	Test Voltage	AC 120V/60Hz



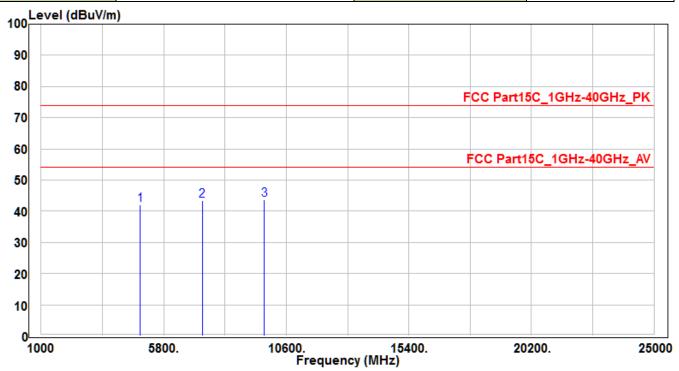
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	4874	44.18	3.47	47.65	-26.35	74	150	400	Peak
2		7311	32.51	12.18	44.69	-29.31	74	150	400	Peak
3		9748	28.94	15.19	44.13	-29.87	74	150	400	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH06	Test Voltage	AC 120V/60Hz



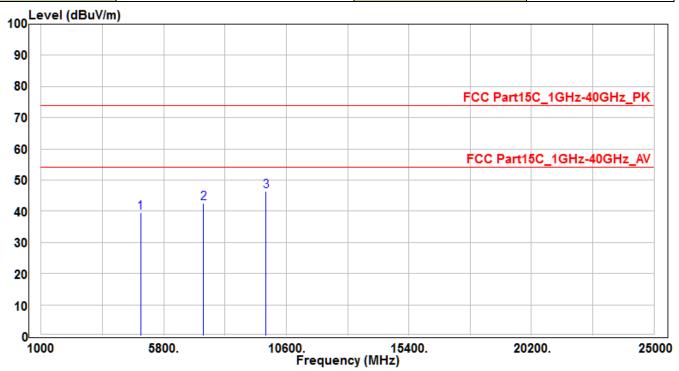
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		4874	38.67	3.47	42.14	-31.86	74	150	400	Peak
2		7311	31.12	12.18	43.3	-30.7	74	150	400	Peak
3	*	9748	28.64	15.19	43.83	-30.17	74	150	400	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH09	Test Voltage	AC 120V/60Hz



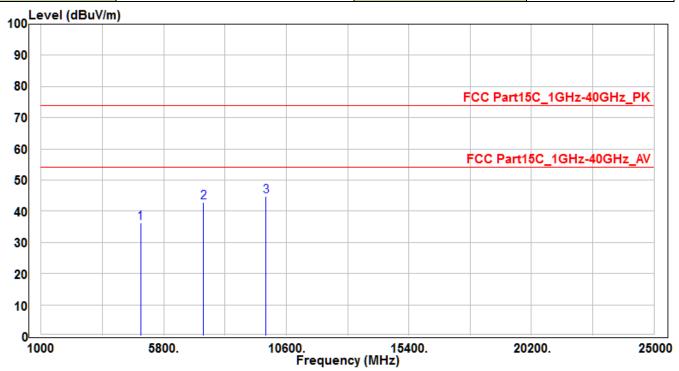
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		4904	36.15	3.54	39.69	-34.31	74	150	400	Peak
2		7356	30.21	12.31	42.52	-31.48	74	150	400	Peak
3	*	9808	31.17	15.32	46.49	-27.51	74	150	400	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH09	Test Voltage	AC 120V/60Hz



No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		4904	32.67	3.54	36.21	-37.79	74	150	400	Peak
2		7356	30.58	12.31	42.89	-31.11	74	150	400	Peak
3	*	9808	29.53	15.32	44.85	-29.15	74	150	400	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC	FCC Part 15 Subpart C Paragraph 15.209							
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]						
0.009 - 0.490	2400/F (kHz)	300						
0.490 - 1.705	24000/F (kHz)	30						
1.705 – 30	30	30						
30 – 88	100	3						
88 – 216	150	3						
216 – 960	200	3						
Above 960	500	3						

7.7.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.12.1

7.7.3. Test Setting

Peak Field Strength Measurements

- Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in Table 1
- 3. VBW = 3 * RBW
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold

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7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

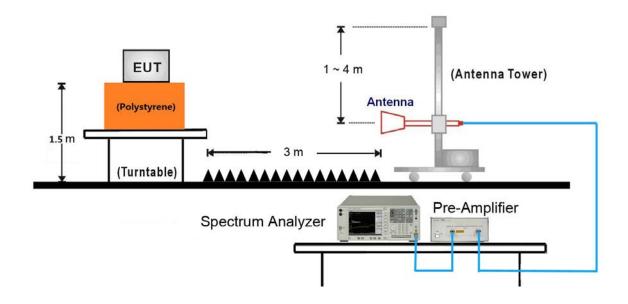
- Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

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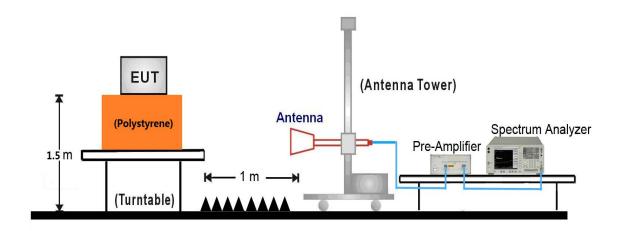


7.7.4. Test Setup

1GHz ~ 18GHz Test Setup:



18GHz ~40GHz Test Setup:

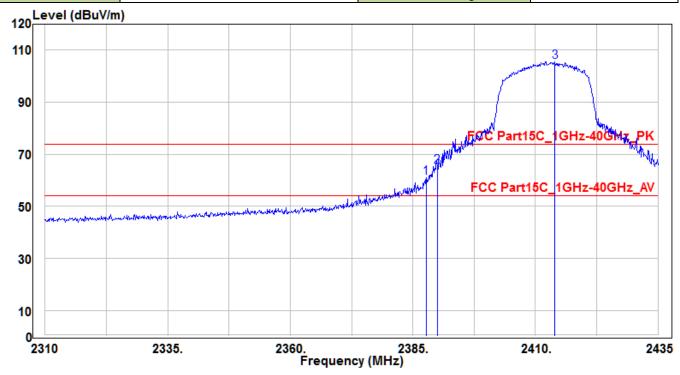


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7.7.5. Test Result

EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH01	Test Voltage	AC 120V/60Hz



No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2387.75	63.24	-2.37	60.87	-13.13	74	155	145	Peak
2	*	2390	67.53	-2.36	65.17	-8.83	74	155	145	Peak
3		2414	107.89	-2.26	105.63	31.63	74	155	145	Peak

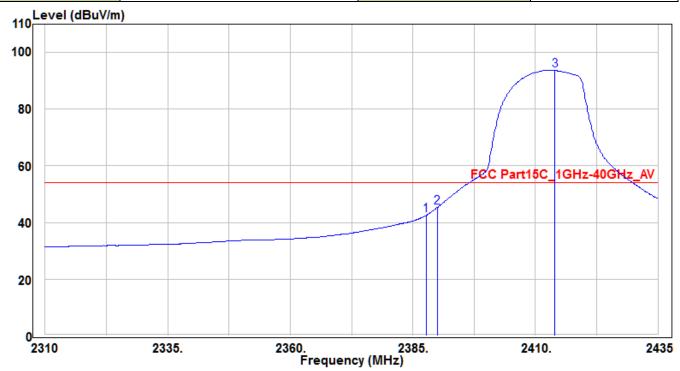
Note:

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%		
Polarity	Horizontal	Site / Engineer	AC1 / Peter		
Test Mode	MODE1-CH01	Test Voltage	AC 120V/60Hz		



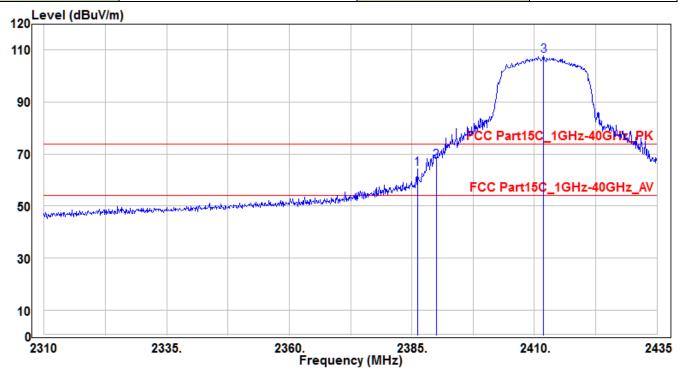
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2387.75	44.98	-2.37	42.61	-11.39	54	155	145	Average
2	*	2390	47.7	-2.36	45.34	-8.66	54	155	145	Average
3		2414	95.92	-2.26	93.66	39.66	54	155	145	Average

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%		
Polarity	Vertical	Site / Engineer	AC1 / Peter		
Test Mode	MODE1-CH01	Test Voltage	AC 120V/60Hz		



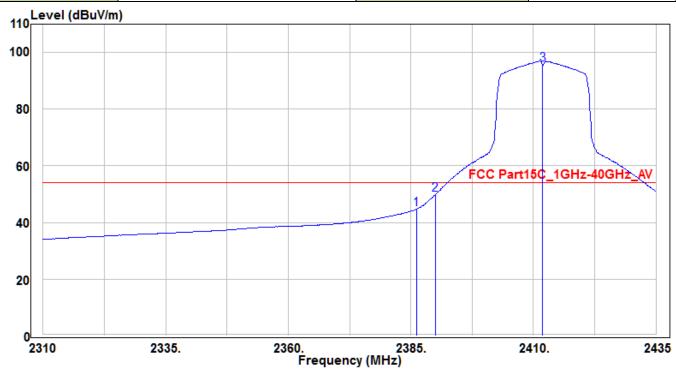
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2386.125	66.52	-2.38	64.14	-9.86	74	150	350	Peak
2	*	2390	69.64	-2.36	67.28	-6.72	74	150	350	Peak
3		2411.875	110.02	-2.27	107.75	33.75	74	150	350	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%		
Polarity	Vertical	Site / Engineer	AC1 / Peter		
Test Mode	MODE1-CH01	Test Voltage	AC 120V/60Hz		



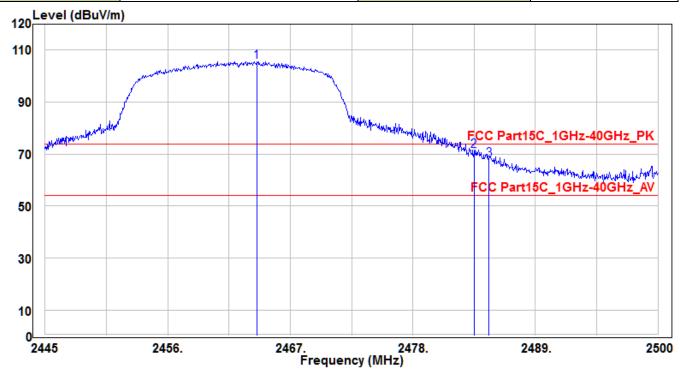
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2386.125	47.09	-2.38	44.71	-9.29	54	150	350	Average
2	*	2390	52.31	-2.36	49.95	-4.05	54	150	350	Average
3		2411.875	98.19	-2.27	95.92	41.92	54	150	350	Average

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%		
Polarity	Horizontal	Site / Engineer	AC1 / Peter		
Test Mode	MODE1-CH11	Test Voltage	AC 120V/60Hz		



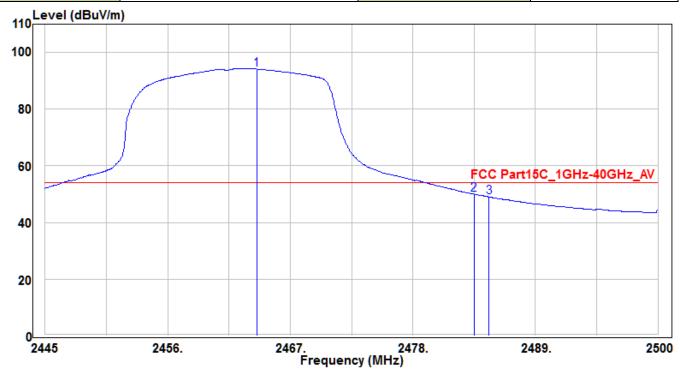
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2463.975	107.65	-2.06	105.59	31.59	74	150	145	Peak
2	*	2483.5	73.25	-1.99	71.26	-2.74	74	150	145	Peak
3		2484.82	70.01	-1.99	68.02	-5.98	74	150	145	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%		
Polarity	Horizontal	Site / Engineer	AC1 / Peter		
Test Mode	MODE1-CH11	Test Voltage	AC 120V/60Hz		



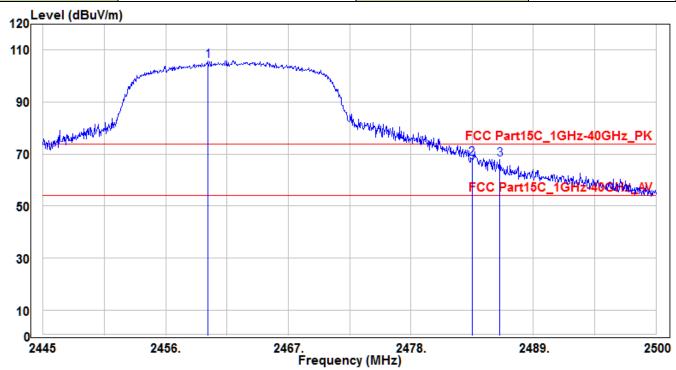
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2463.975	96.2	-2.06	94.14	40.14	54	155	145	Average
2	*	2483.5	51.97	-1.99	49.98	-4.02	54	155	145	Average
3		2484.82	51.03	-1.99	49.04	-4.96	54	155	145	Average

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH11	Test Voltage	AC 120V/60Hz



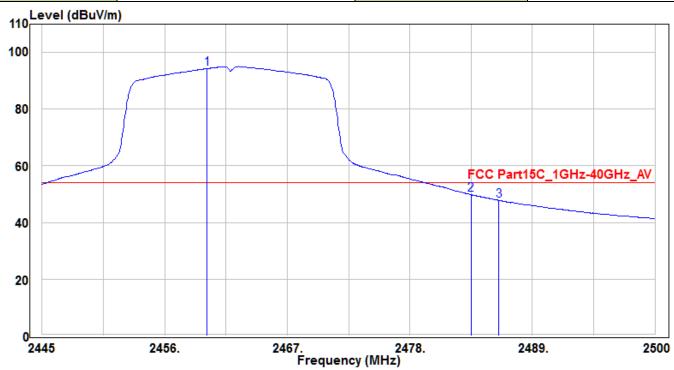
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2459.795	108.03	-2.08	105.95	31.95	74	165	350	Peak
2	*	2483.5	70.31	-1.99	68.32	-5.68	74	165	350	Peak
3		2485.975	70.02	-1.98	68.04	-5.96	74	165	350	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%		
Polarity	Vertical	Site / Engineer	AC1 / Peter		
Test Mode	MODE1-CH11	Test Voltage	AC 120V/60Hz		



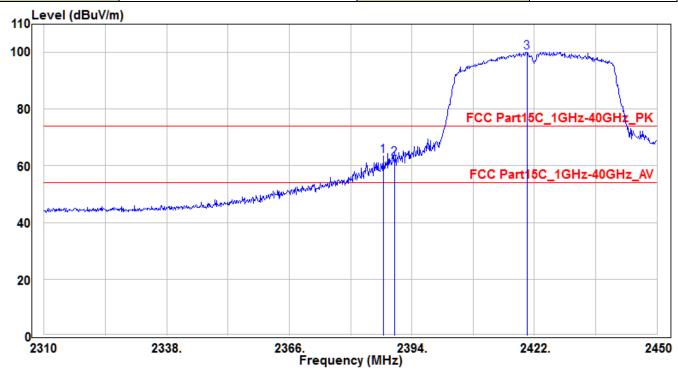
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2459.795	96.33	-2.08	94.25	40.25	54	165	350	Average
2	*	2483.5	51.81	-1.99	49.82	-4.18	54	165	350	Average
3		2485.975	49.77	-1.98	47.79	-6.21	54	165	350	Average

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%		
Polarity	Horizontal	Site / Engineer	AC1 / Peter		
Test Mode	MODE2-CH03	Test Voltage	AC 120V/60Hz		



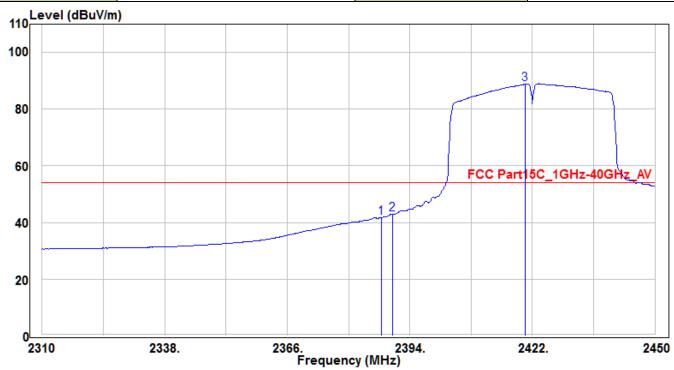
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	2387.42	65.94	-2.38	63.56	-10.44	74	160	5	Peak
2		2390	64.95	-2.36	62.59	-11.41	74	160	5	Peak
3		2420.32	102.41	-2.24	100.17	26.17	74	160	5	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH03	Test Voltage	AC 120V/60Hz



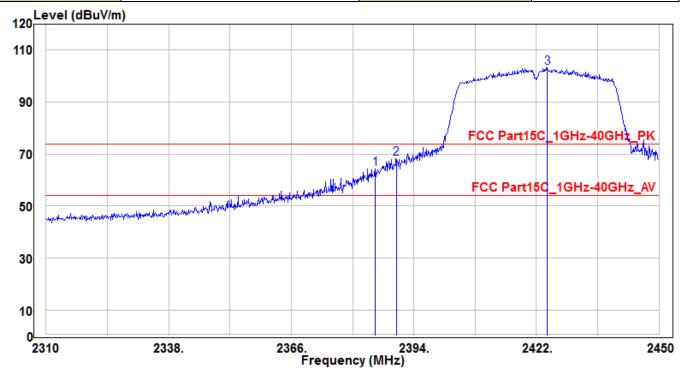
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2387.42	44.16	-2.38	41.78	-12.22	54	160	5	Average
2	*	2390	45.38	-2.36	43.02	-10.98	54	160	5	Average
3		2420.32	91.01	-2.24	88.77	34.77	54	160	5	Average

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%		
Polarity	Vertical	Site / Engineer	AC1 / Peter		
Test Mode	MODE2-CH03	Test Voltage	AC 120V/60Hz		



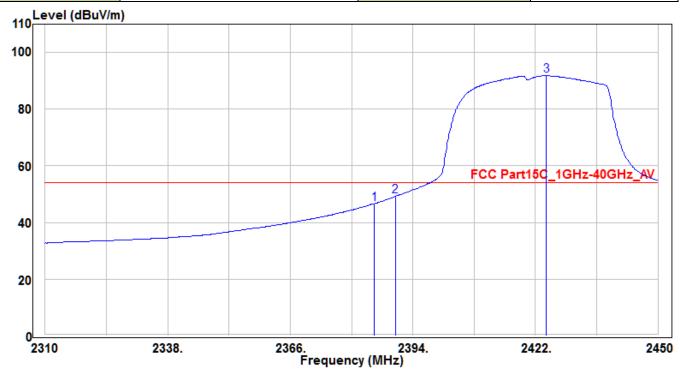
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2385.18	66.75	-2.38	64.37	-9.63	74	150	350	Peak
2	*	2390	70.58	-2.36	68.22	-5.78	74	150	350	Peak
3		2424.52	105.57	-2.22	103.35	29.35	74	150	350	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16		
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%		
Polarity	Vertical	Site / Engineer	AC1 / Peter		
Test Mode	MODE2-CH03	Test Voltage	AC 120V/60Hz		



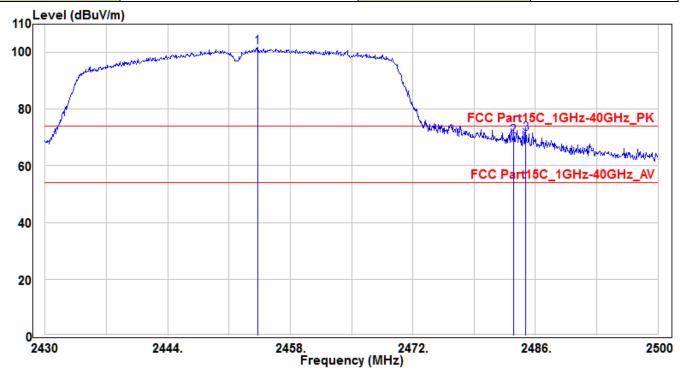
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2385.18	49.05	-2.38	46.67	-7.33	54	150	350	Average
2	*	2390	51.64	-2.36	49.28	-4.72	54	150	350	Average
3		2424.52	93.99	-2.22	91.77	37.77	54	150	350	Average

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH09	Test Voltage	AC 120V/60Hz



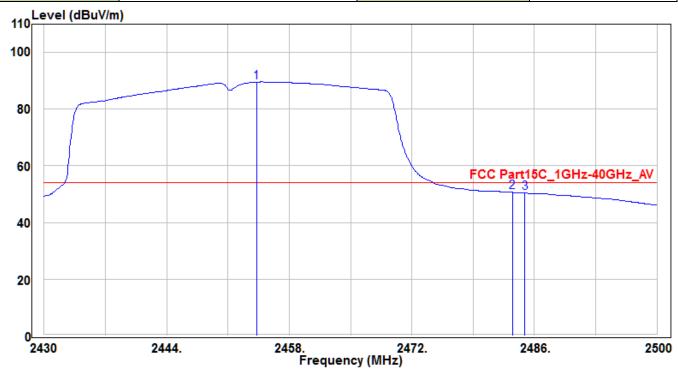
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		2454.29	104.08	-2.1	101.98	27.98	74	150	10	Peak
2		2483.5	72.46	-1.99	70.47	-3.53	74	150	10	Peak
3	*	2484.88	73.46	-1.99	71.47	-2.53	74	150	10	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)..
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH09	Test Voltage	AC 120V/60Hz



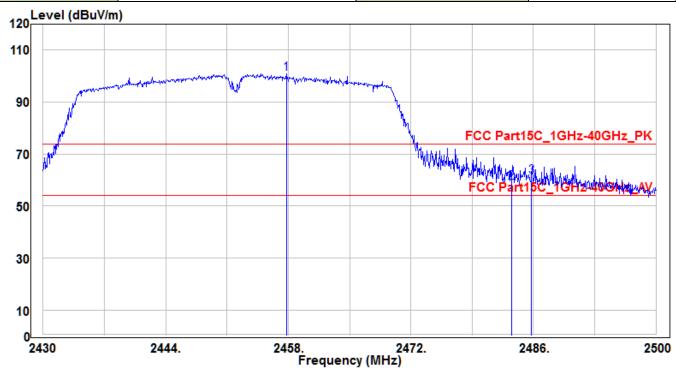
No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2454.29	91.68	-2.1	89.58	35.58	54	150	10	Average
2	*	2483.5	52.64	-1.99	50.65	-3.35	54	150	10	Average
3		2484.88	52.39	-1.99	50.4	-3.6	54	150	10	Average

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)...
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH09	Test Voltage	AC 120V/60Hz



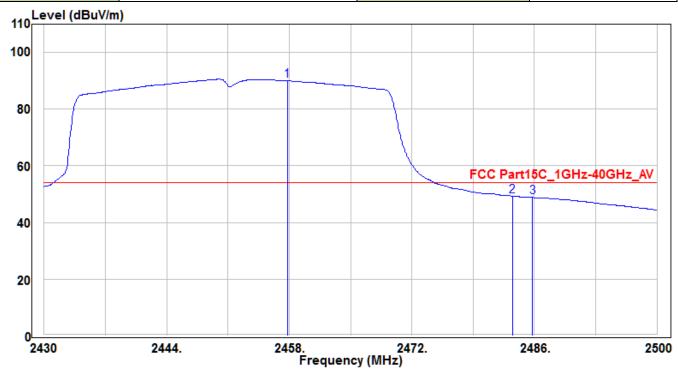
No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2457.79	102.94	-2.09	100.85	26.85	74	170	350	Peak
2		2483.5	60.86	-1.99	58.87	-15.13	74	170	350	Peak
3	*	2485.79	63.26	-1.98	61.28	-12.72	74	170	350	Peak

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)...
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Polarity Vertical		AC1 / Peter
Test Mode	MODE2-CH09	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2457.79	92.09	-2.09	90	36	54	170	350	Average
2	*	2483.48	51.38	-1.99	49.39	-4.61	54	170	350	Average
3		2485.79	50.82	-1.98	48.84	-5.16	54	170	350	Average

- 1. " * " means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB)...
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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7.8. AC Conducted Emissions Measurement

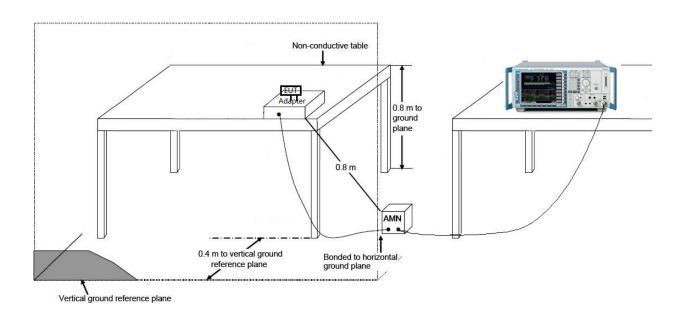
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Limits							
Frequency (MHz)	QP (dBµV)	Average (dBµV)					
0.15 - 0.50	66 - 56	56 - 46					
0.50 - 5.0	56	46					
5.0 - 30	60	50					

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



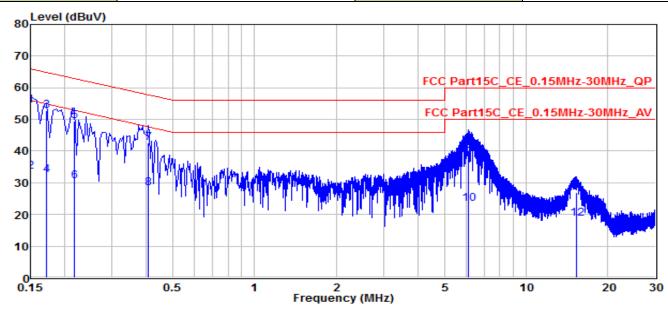
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7.8.3. Test Result

EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	24°C / 55%
Polarity	Line1	Site / Engineer	SR2 / Peter
Test Mode	MODE1-CH06 with Adapter (1)	Test Voltage	AC120V/60Hz



No		Frequency	Reading	C.F	Measurement	Margin	Limit	Remark
No		(MHz)	(dBuV)	(dB)	(dBuV)	(dB)	(dBuV)	(QP/PK/AV)
1	*	0.15	44.6	9.81	54.41	-11.59	66	QP
2	*	0.15	23.78	9.81	33.59	-22.41	56	Average
3		0.1725	42.7	10.14	52.84	-12	64.84	QP
4		0.1725	22.3	10.14	32.44	-22.4	54.84	Average
5		0.21749	39.5	9.93	49.43	-13.48	62.91	QP
6		0.21749	20.49	9.93	30.42	-22.49	52.91	Average
7		0.40647	32.69	10.05	42.74	-14.98	57.72	QP
8		0.40647	18.23	10.05	28.28	-19.44	47.72	Average
9		6.112	30.24	9.78	40.02	-19.98	60	QP
10		6.112	13.65	9.78	23.43	-26.57	50	Average
11		15.309	16.95	9.94	26.89	-33.11	60	QP
12		15.309	8.62	9.94	18.56	-31.44	50	Average

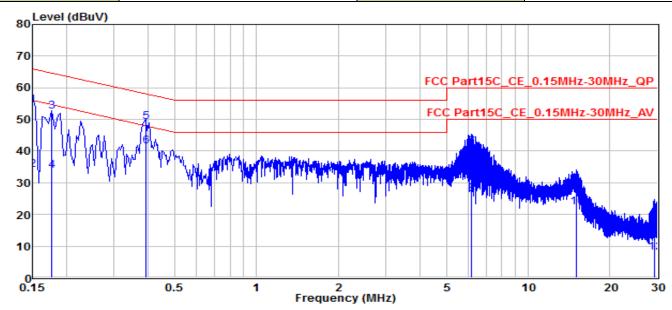
Note:

- 1. " * ", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Factor (dB)+ Cable Loss (dB).
- 3. Measurement (dBuV) = Reading(dBuV)+ C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	24°C / 55%
Polarity	Neutral	Site / Engineer	SR2 / Peter
Test Mode	MODE1-CH06 with Adapter (1)	Test Voltage	AC120V/60Hz



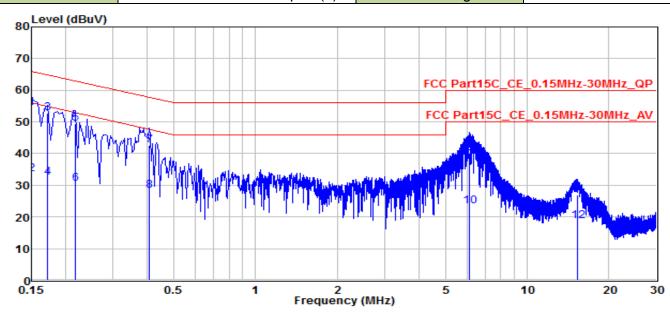
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Remark
No		(MHz)	(dBuV)	(dB)	(dBuV)	(dB)	(dBuV)	(QP/PK/AV)
1		0.15	44.68	9.84	54.52	-11.48	66	QP
2		0.15	24.21	9.84	34.05	-21.95	56	Average
3		0.177	42.26	10.14	52.4	-12.23	64.63	QP
4		0.177	23.77	10.14	33.91	-20.72	54.63	Average
5	*	0.39298	39.13	10.04	49.17	-8.83	58	QP
6	*	0.39298	31.58	10.04	41.62	-6.38	48	Average
7		6.202	31.36	9.76	41.12	-18.88	60	QP
8		6.202	16.61	9.76	26.37	-23.63	50	Average
9		15.075	19.08	9.97	29.05	-30.95	60	QP
10		15.075	12.4	9.97	22.37	-27.63	50	Average
11		29.298	3.87	10.13	14	-46	60	QP
12		29.298	-2.07	10.13	8.06	-41.94	50	Average

- 1. " * ", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Factor (dB)+ Cable Loss (dB).
- 3. Measurement (dBuV) = Reading(dBuV)+ C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16	
Factor	Factor CE_ENV216-L1 (Filter ON)		24°C / 55%	
Polarity	Line1	Site / Engineer	SR2 / Peter	
Test Mode	MODE1-CH06 with Adapter (2)	Test Voltage	AC120V/60Hz	



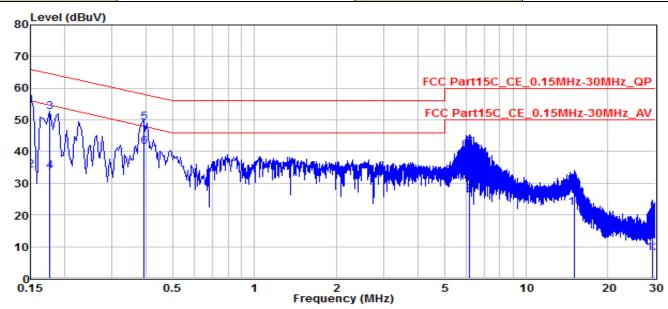
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV)	(dB)	(dBuV)	(QP/PK/AV)
1	*	0.15	44.6	9.81	54.41	-11.59	66	QP
2		0.15	23.78	9.81	33.59	-22.41	56	Average
3		0.1725	42.7	10.14	52.84	-12	64.84	QP
4		0.1725	22.3	10.14	32.44	-22.4	54.84	Average
5		0.21749	39.5	9.93	49.43	-13.48	62.91	QP
6		0.21749	20.49	9.93	30.42	-22.49	52.91	Average
7		0.40647	32.69	10.05	42.74	-14.98	57.72	QP
8	*	0.40647	18.23	10.05	28.28	-19.44	47.72	Average
9		6.112	30.24	9.78	40.02	-19.98	60	QP
10		6.112	13.65	9.78	23.43	-26.57	50	Average
11		15.309	16.95	9.94	26.89	-33.11	60	QP
12		15.309	8.62	9.94	18.56	-31.44	50	Average

- 1. " * ", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Factor (dB)+ Cable Loss (dB).
- 3. Measurement (dBuV) = Reading(dBuV)+ C.F (Correction Factor).

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EUT	Asante Garage Viewer	Test Date	2018/5/16	
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	24°C / 55%	
Polarity	Neutral	Site / Engineer	SR2 / Peter	
Test Mode	MODE1-CH06 with Adapter (2)	Test Voltage	AC120V/60Hz	



No		Frequency	Reading	C.F	Measurement	Margin	Limit	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV)	(dB)	(dBuV)	(QP/PK/AV)
1		0.15	44.68	9.84	54.52	-11.48	66	QP
2		0.15	24.21	9.84	34.05	-21.95	56	Average
3		0.177	42.26	10.14	52.4	-12.23	64.63	QP
4		0.177	23.77	10.14	33.91	-20.72	54.63	Average
5	*	0.39298	39.13	10.04	49.17	-8.83	58	QP
6	*	0.39298	31.58	10.04	41.62	-6.38	48	Average
7		6.202	31.36	9.76	41.12	-18.88	60	QP
8		6.202	16.61	9.76	26.37	-23.63	50	Average
9		15.075	19.08	9.97	29.05	-30.95	60	QP
10		15.075	12.4	9.97	22.37	-27.63	50	Average
11		29.298	3.87	10.13	14	-46	60	QP
12		29.298	-2.07	10.13	8.06	-41.94	50	Average

- 1. " * ", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Factor (dB)+ Cable Loss (dB).
- 3. Measurement (dBuV) = Reading(dBuV)+ C.F (Correction Factor).

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8. CONCLUSION

The data collected relate only the item(s) tested and show that the Asante Garage Viewer is in
compliance with Part 15C of the FCC Rules.
The End

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