



MEASUREMENT REPORT

FCC PART 15.231(b)

FCC ID: TFJA20GV

APPLICANT: Uniform Industrial Corp.

Application Type: Certification

Product: Asante Garage Viewer

Model No.: 99-00859-US


Trademark: 


FCC Classification: (DSC) Part 15 Security/Remote Control Transmitter

FCC Rule Part(s): Part 15.231(b)

Test Procedure(s): ANSI C63.10-2013

Test Date: May 15~ Aug 17, 2018

Tested By : 
(Peter Syu)

Reviewed By : 
(Paddy Chen)

Approved By : 
(Chenz Ker)



The test results only relate to the tested sample.

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 ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
1805TW0901-U2	1.0	Original Report	2018-08-22	

CONTENTS

Description	Page
1. INTRODUCTION	6
1.1. Scope	6
1.2. MRT Test Location	6
2. PRODUCT INFORMATION	7
2.1. Equipment Description.....	7
2.2. Test Standards	8
2.3. Test Methodology	8
2.4. EUT Setup and Test Mode	9
3. ANTENNA REQUIREMENTS	10
4. TEST EQUIPMENT CALIBRATION DATA	11
5. MEASUREMENT UNCERTAINTY	12
6. TEST RESULT	13
6.1. Summary	13
6.2. Radiated Emissions	14
6.2.1. Standard Applicable	14
6.2.2. Test Procedure.....	14
6.2.3. Test Setup.....	15
6.2.4. Test Results	16
6.3. 20dB Bandwidth	22
6.3.1. Standard Applicable	22
6.3.2. Test Procedure.....	22
6.3.3. Test Setup.....	22
6.3.4. Test Result.....	23
6.4. Transmission Time.....	24
6.4.1. Standard Applicable	24
6.4.2. Test Procedure.....	24
6.4.3. Test Setup.....	24
6.4.4. Test Result.....	25
6.5. Duty Cycle	26
6.5.1. Standard Applicable	26
6.5.2. Test Procedure.....	26
6.5.3. Test Setup.....	26
6.5.4. Test Result.....	27
6.6. AC Conducted Emissions Measurement.....	28

6.6.1.	Test Limit	28
6.6.2.	Test Setup.....	28
6.6.3.	Test Result.....	29
7.	CONCLUSION.....	33

§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 (Suzhou) Co., Ltd
Test Site Address	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
FCC Rule Part(s)	Part 15.231(b)
Test Device Serial No.:	N/A <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering
FCC Classification:	Part 15 Security/Remote Control Transmitter (DSC)

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) test laboratory with the site description on file at Industry Canada.
3. 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.

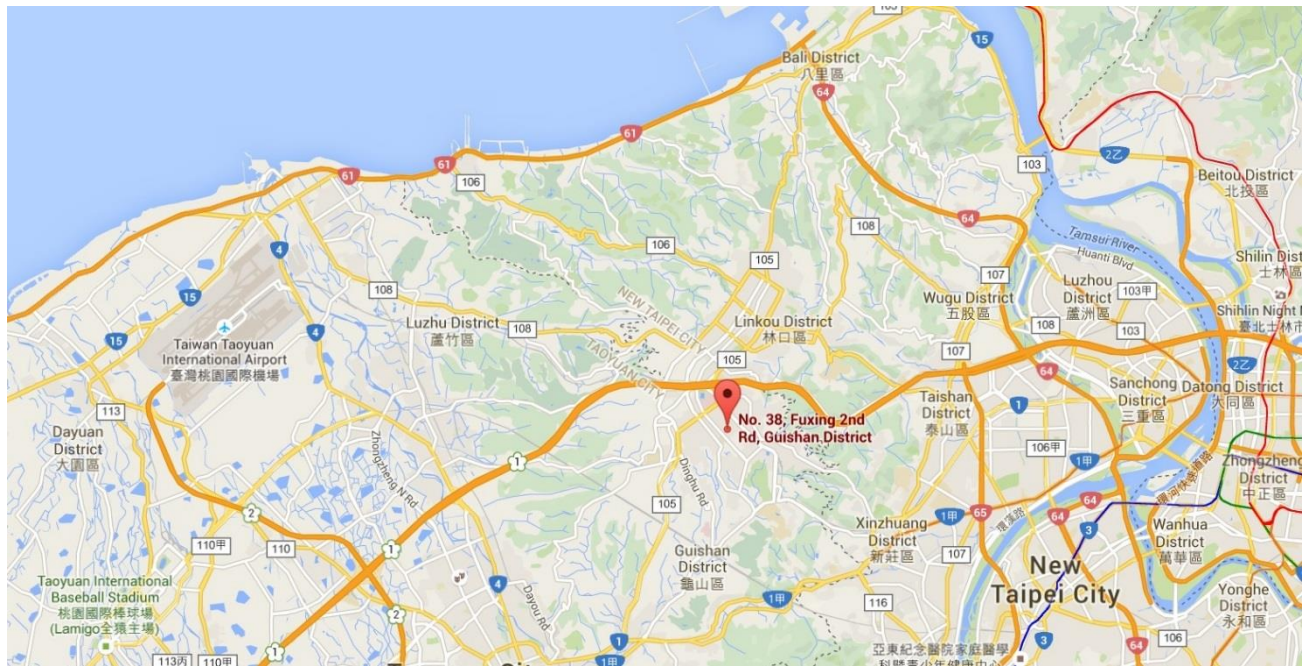
1. INTRODUCTION

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).



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Asante Garage Viewer
Model No.	99-00859-US
Frequency Range	433.33 MHz
Supports Radios Spec.	WLAN: 2.4G: 802.11n-20/n-40; 433.33MHz
Type of modulation	FSK
Antenna Type	Integral Antenna
Power Adapter (1)	Brand Name: AMIGO Model: AMS135-0502000FU Input: AC 100-240V~0.5A, 50-60Hz Output: DC 5V-2.0A DC Cable Out Non-Shielding, 1.5m
Power Adapter (2)	Brand Name: Powertron Elecronics Corp. Model: PA1015-050HUB200 Input: AC 100-240V~0.4A, 50-60Hz Output: DC 5V-2.0A DC Cable Out Non-Shielding, 1.5m

2.2. Test Standards

The following report is prepared on behalf of the **Uniform Industrial Corp.** in accordance with FCC Part 15, Subpart C, and section 15.231, 15.203, 15.205 and 15.209 of the Federal Communication Commission rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.231, 15.203, 15.205 and 15.209 of the Federal Communication Commission rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission/immunity, should be checked to ensure compliance has been maintained.

2.3. Test Methodology

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013).

Deviation from measurement procedure.....None

2.4. EUT Setup and Test Mode

The EUT was operated at continuous transmitting mode that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode	
Mode 1	Transmitting with FSK Modulation

3. 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 Asante Garage Viewer **FCC ID: TFJA20GV** unit complies with the requirement of §15.203.

4. TEST EQUIPMENT CALIBRATION DATA

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-B 1C50-500CM	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
Active 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	Rosnol	K1K50-UP0264- 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
EMI	V3	EMI Test Software

5. 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% ($U=2U_c(y)$):	
150kHz~30MHz: 2.42dB	
Conducted Measurement– SR1	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 1.3dB	
Radiated Emission Measurement – AC1	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
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

6. TEST RESULT

6.1. Summary

Company Name: Uniform Industrial Corp.

FCC ID: TFJA20GV

FCC Part Section(s)	Test Description	Test Condition	Test Result
15.205 15.231(b)	Radiated Spurious Emissions	Radiated	Pass
15.231(c)	20dB Bandwidth		Pass
15.231	Transmission Time		Pass
15.35	Duty Cycle		--
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Notes:

- 1) All modes of operation and data rates were investigated. 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) The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

6.2. Radiated Emissions

6.2.1. Standard Applicable

According to §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	1,250 to 3,750	125 to 375
174-260	3,750	375
260-470	13,750 to 12,500	1375 to 1,250
Above 470	12,500	1,250

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements start below or at the lowest crystal frequency.

Compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

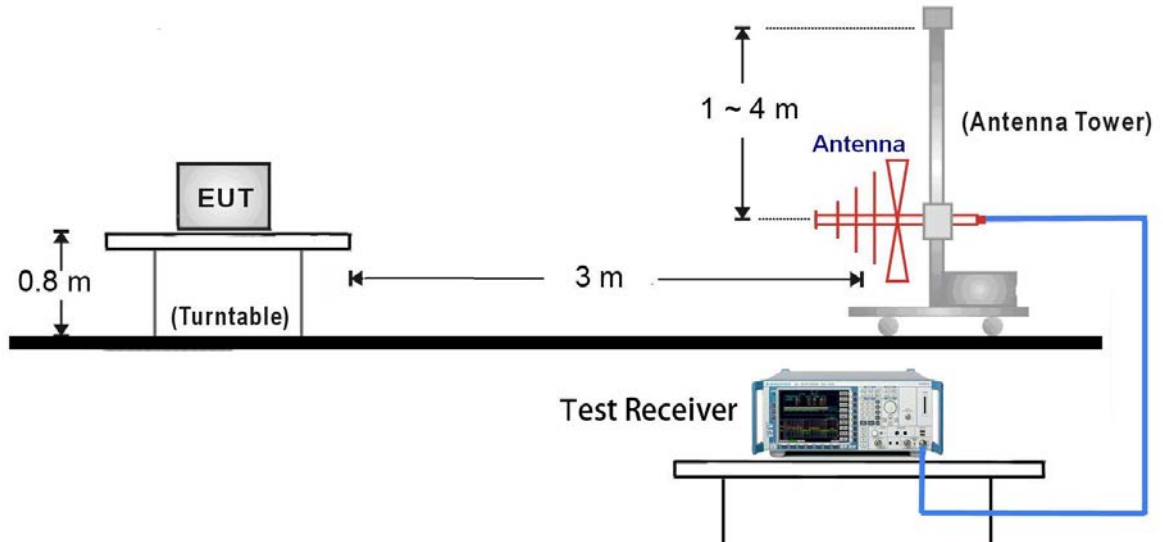
6.2.2. Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.231(b) and FCC Part 15.209 Limit.

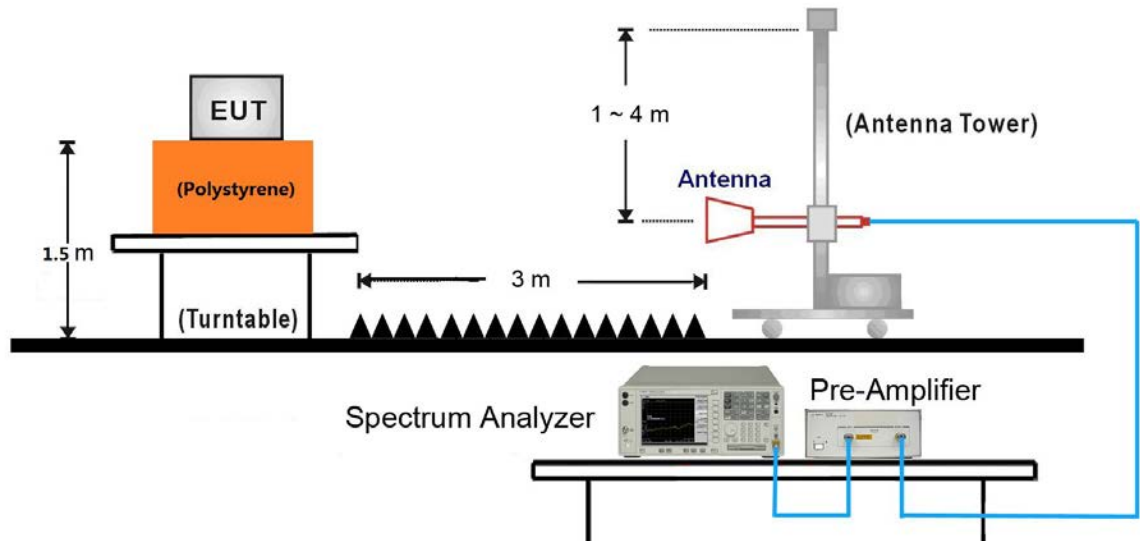
6.2.3. Test Setup

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.231(b) and FCC Part 15.209 Limit.

30MHz ~ 1GHz Test Setup:

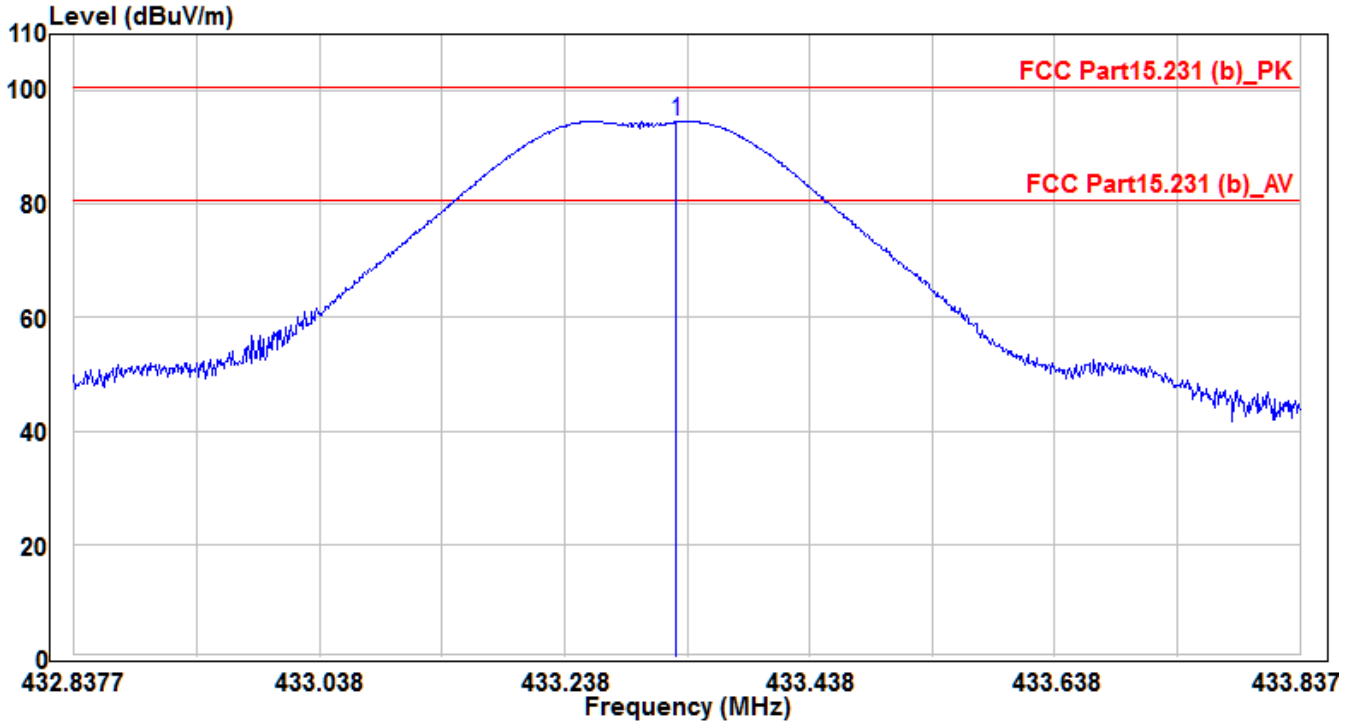


1GHz ~ 5GHz Test Setup:



6.2.4. Test Results

EUT	Asante Garage Viewer	Test Date	2018/5/17
Factor	VULB 9162 (30MHz~8GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE1	Test Voltage	By Battery

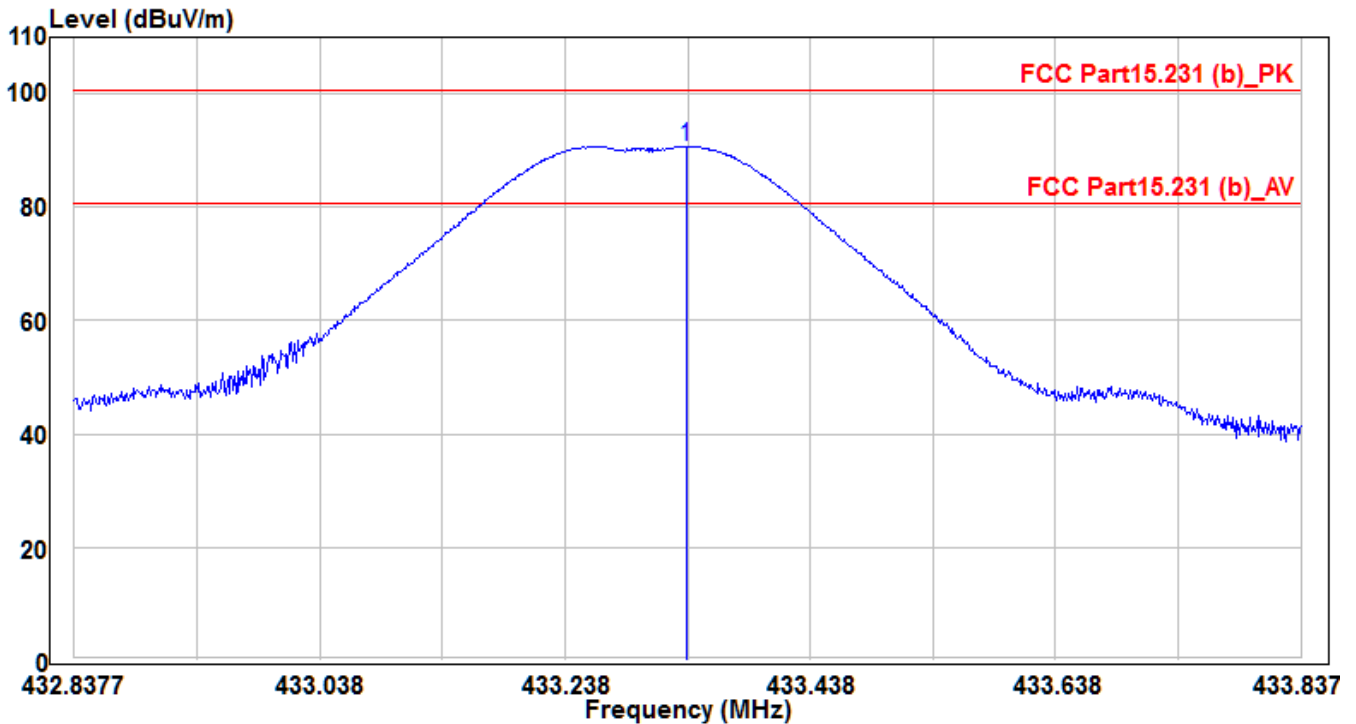


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	433.329	69.83	24.78	94.61	-6.18	100.79	100	360	Peak

Note:

- "*" means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- Average factor (20Log(1/Duty Cycle)) is 24.44dB,
- Average Measurement → 94.61 dBuV/m - 20dB=74.61dBuV/m, Limit is 80.79dBuV/m, So Pass

EUT	Asante Garage Viewer	Test Date	2018/5/17
Factor	VULB 9162 (30MHz~8GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE1	Test Voltage	By Battery

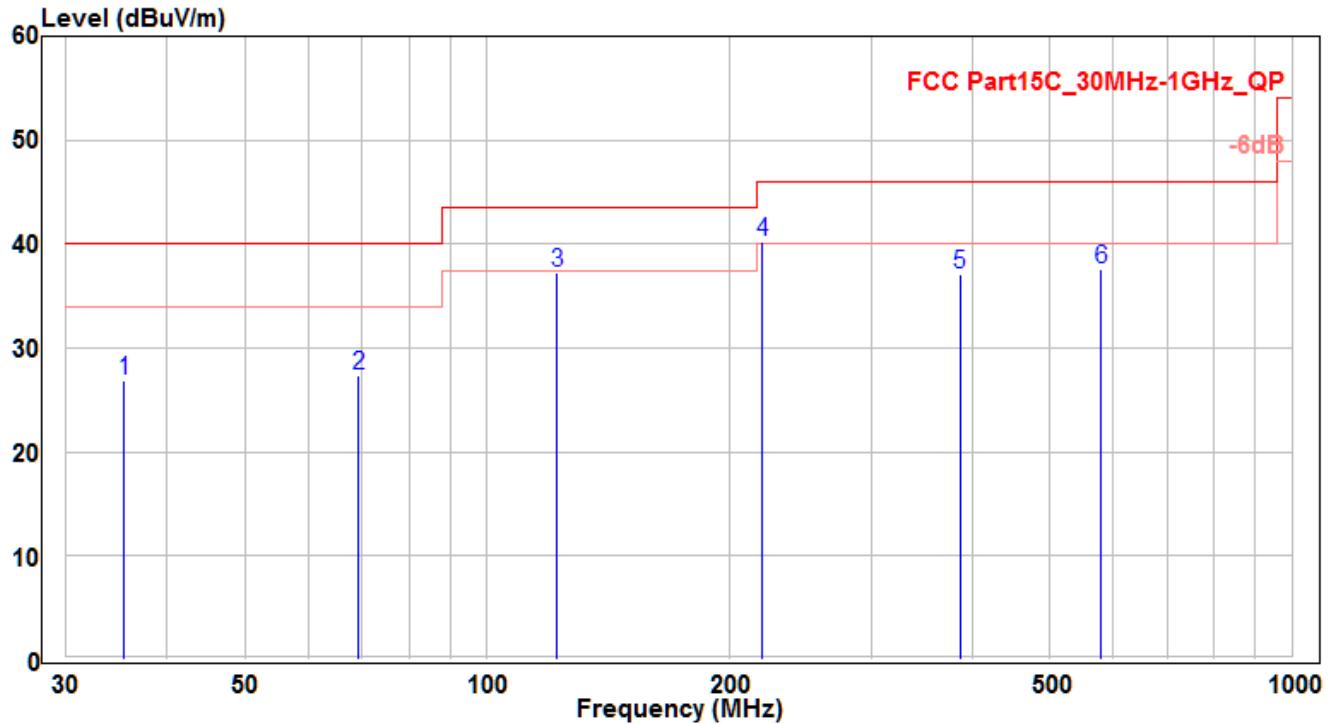


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	433.337	65.94	24.78	90.72	-10.07	100.79	120	105	Peak

Note:

- " * " means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- Average factor (20Log(1/Duty Cycle)) is 24.44dB.
- Average Measurement → 90.72 dBuV/m - 20dB=70.72dBuV/m, Limit is 80.79dBuV/m, So Pass

EUT	Asante Garage Viewer	Test Date	2018/5/15
Factor	VULB 9162 (30MHz~8GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE1	Test Voltage	By Battery

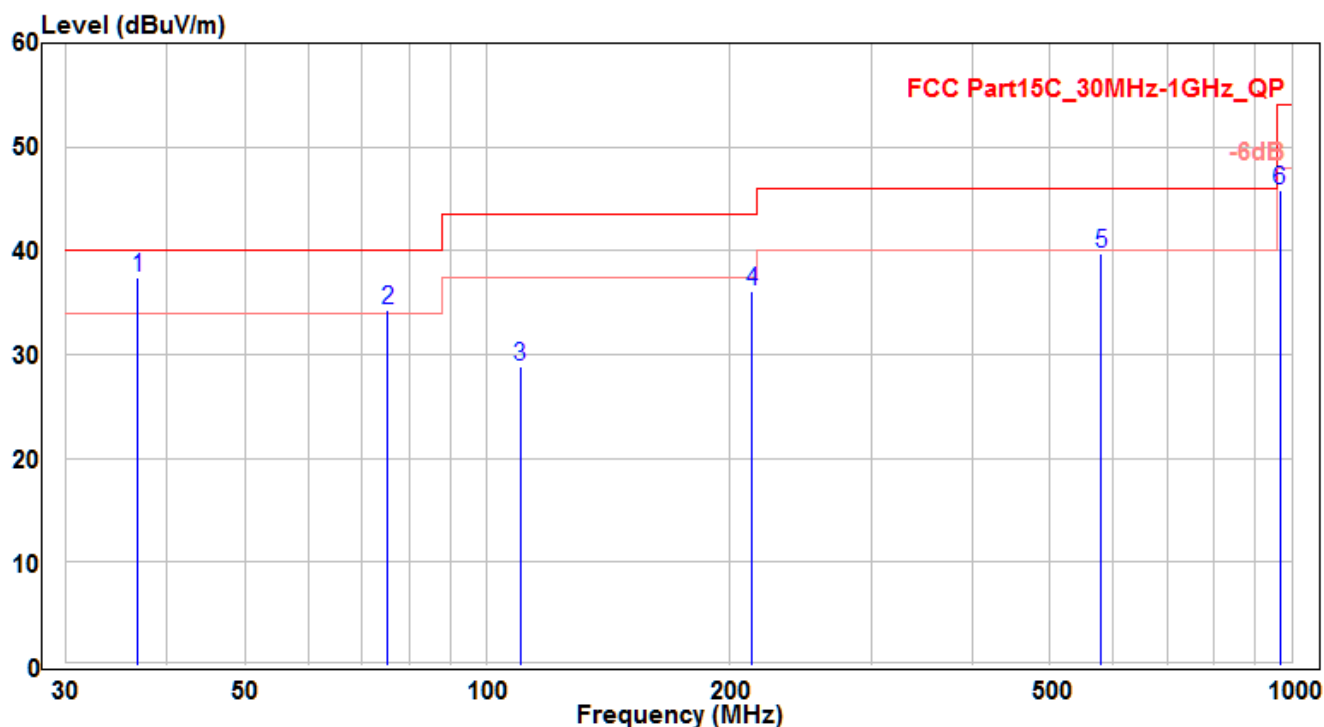


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	35.396	7.75	19.05	26.8	-13.2	40	100	400	QP
2	69.255	10.58	16.72	27.3	-12.7	40	160	240	QP
3	122.126	20.26	16.96	37.22	-6.28	43.5	175	190	QP
4	* 219.56	21.21	19.1	40.31	-5.69	46	130	210	QP
5	386.657	13.17	24	37.17	-8.83	46	185	125	QP
6	579.99	10.23	27.38	37.61	-8.39	46	155	250	QP

Note:

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

EUT	Asante Garage Viewer	Test Date	2018/5/15
Factor	VULB 9162 (30MHz~8GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE1	Test Voltage	By Battery

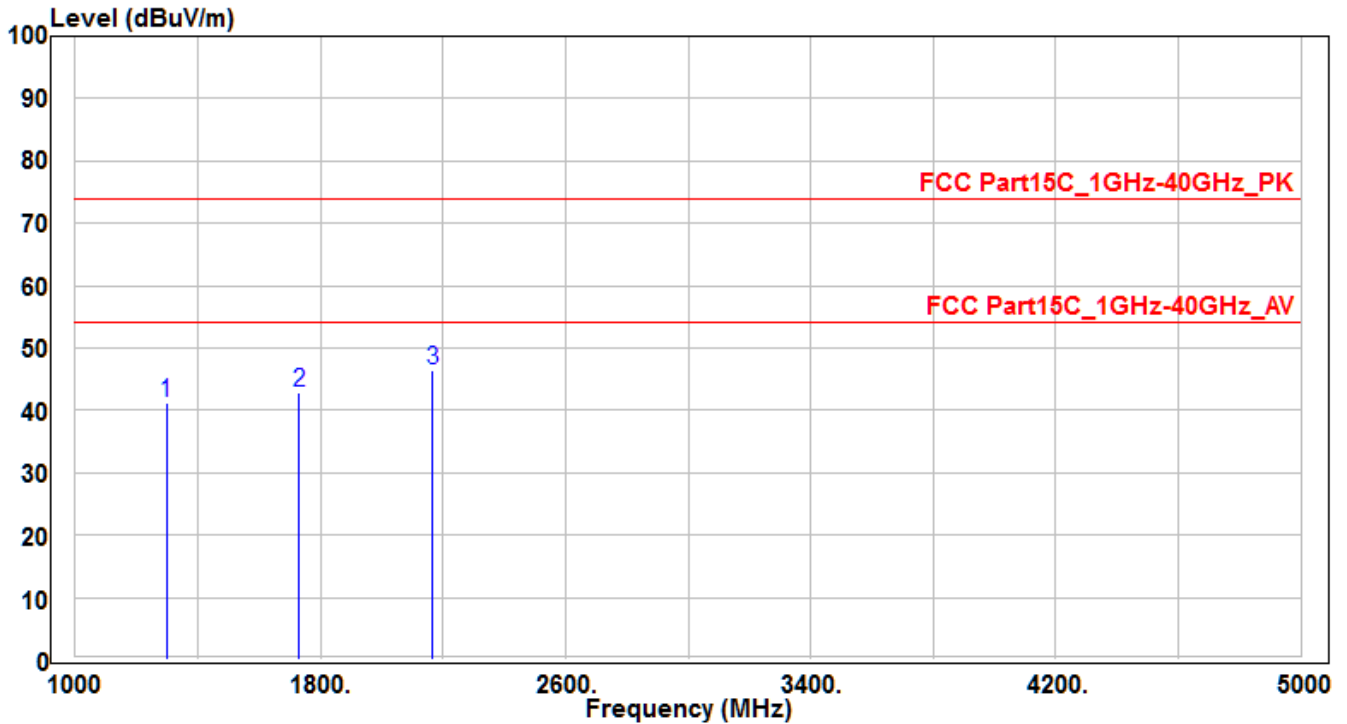


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	36.85	17.89	19.52	37.41	-2.59	40	120	280	QP
2		75.156	19	15.27	34.27	-5.73	40	150	280	QP
3		110.013	10.1	18.81	28.91	-14.59	43.5	150	225	QP
4		213.482	17.26	18.84	36.1	-7.4	43.5	130	250	QP
5		580.156	12.37	27.38	39.75	-6.25	46	190	340	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).

EUT	Asante Garage Viewer	Test Date	2018/5/17
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE1	Test Voltage	AC 120V/60Hz

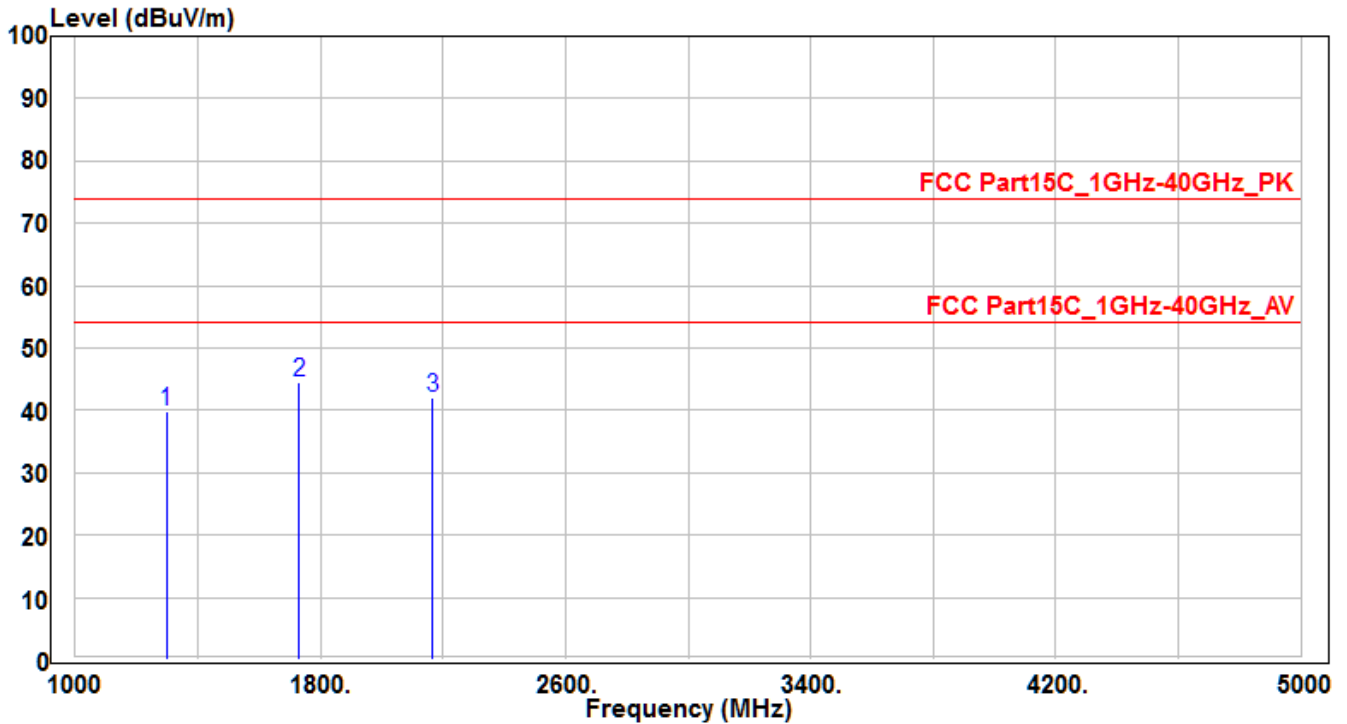


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		1299	47.56	-6.4	41.16	-32.84	74	150	400	Peak
2		1732	47.64	-4.73	42.91	-31.09	74	150	400	Peak
3	*	2165	49.63	-3.25	46.38	-27.62	74	150	400	Peak

Note:

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

EUT	Asante Garage Viewer	Test Date	2018/5/17
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE1	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		1299	46.15	-6.4	39.75	-34.25	74	150	400	Peak
2	*	1732	49.19	-4.73	44.46	-29.54	74	150	400	Peak
3		2165	45.36	-3.25	42.11	-31.89	74	150	400	Peak

Note:

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

6.3. 20dB Bandwidth

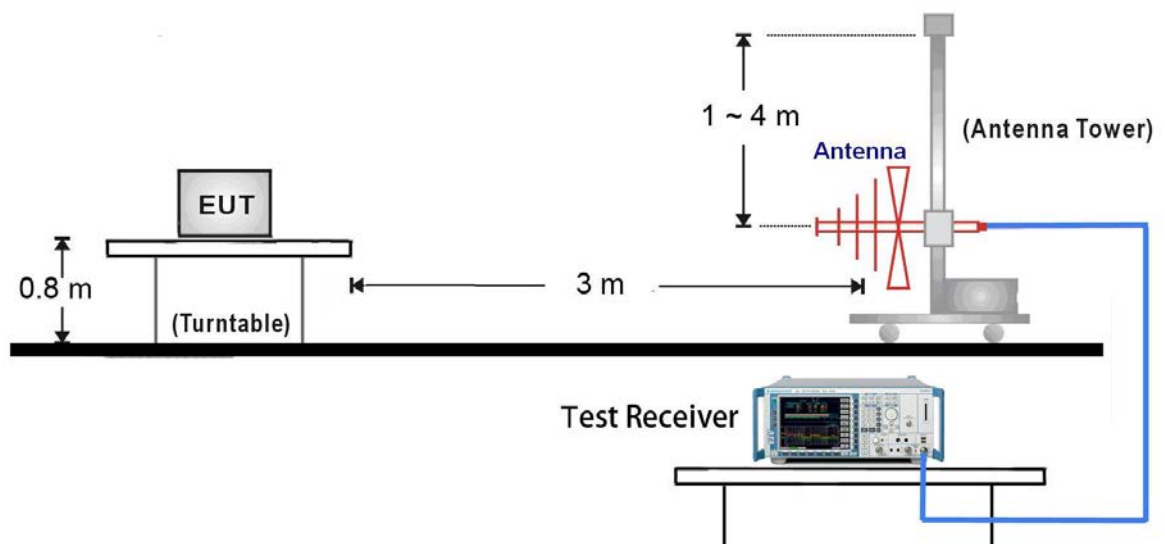
6.3.1. Standard Applicable

According to FCC Part 15.231(c), the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

6.3.2. Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna, which was connected to the spectrum analyzer with the START, and STOP frequencies set to the EUT's operation band.

6.3.3. Test Setup



6.3.4. Test Result

Test Frequency (MHz)	Modulation Type	20dB Bandwidth (KHz)	Limit (KHz)	Result
433.33	FSK	211.8	≤ 1083.3	Pass

Limit = Fundamental Frequency * 0.25% = 433.33 MHz * 0.25% = 1083.3 kHz



6.4. Transmission Time

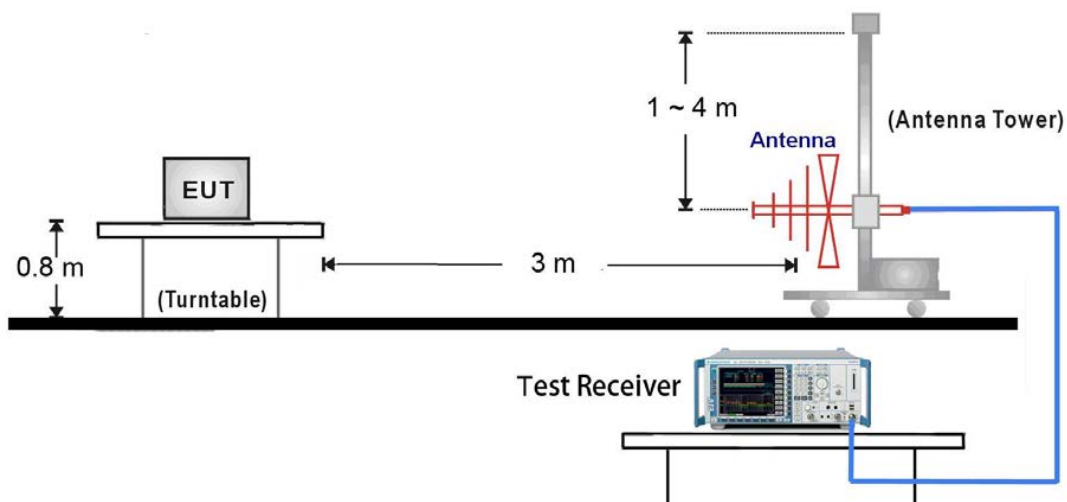
6.4.1. Standard Applicable

- (1) 15.231(a) (1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) 15.231(a) (2), A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- (3) 15.231(a) (3), Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.
- (4) 15.231(e), devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

6.4.2. Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 433.33 MHz, then set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

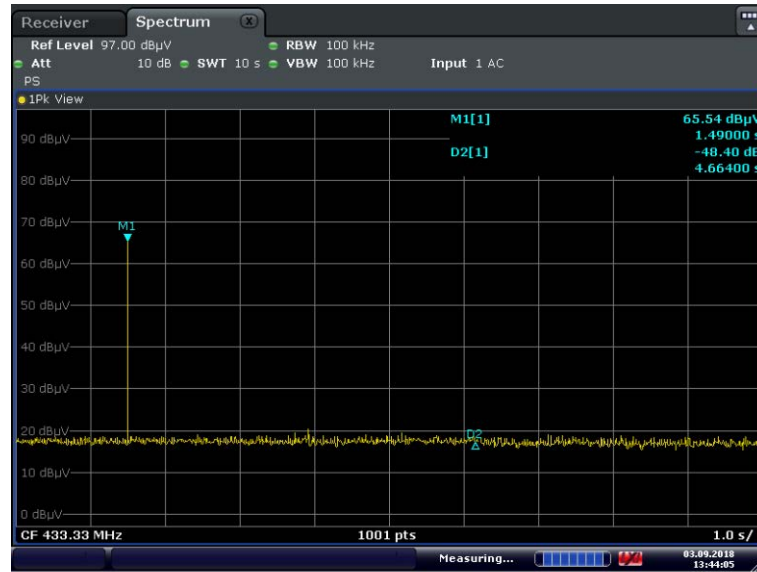
6.4.3. Test Setup



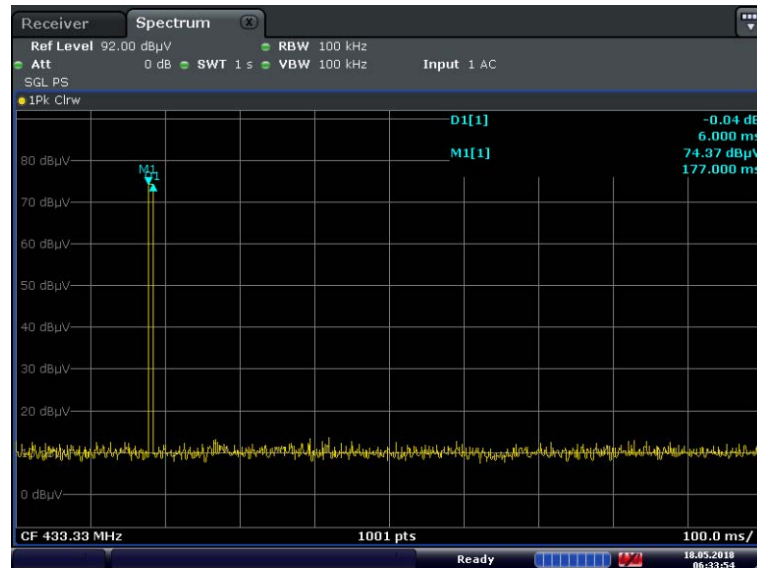
6.4.4. Test Result

Test Item	Frequency (MHz)	Measurement (s)	Limit (s)	Result
Transmission Time(T_{on})	433.33	0.06	< 5	Pass

433.33 MHz-Transmission Time(T_{on})



Date: 3.SEP.2018 13:44:05



Date: 18.MAY.2018 06:33:54

6.5. Duty Cycle

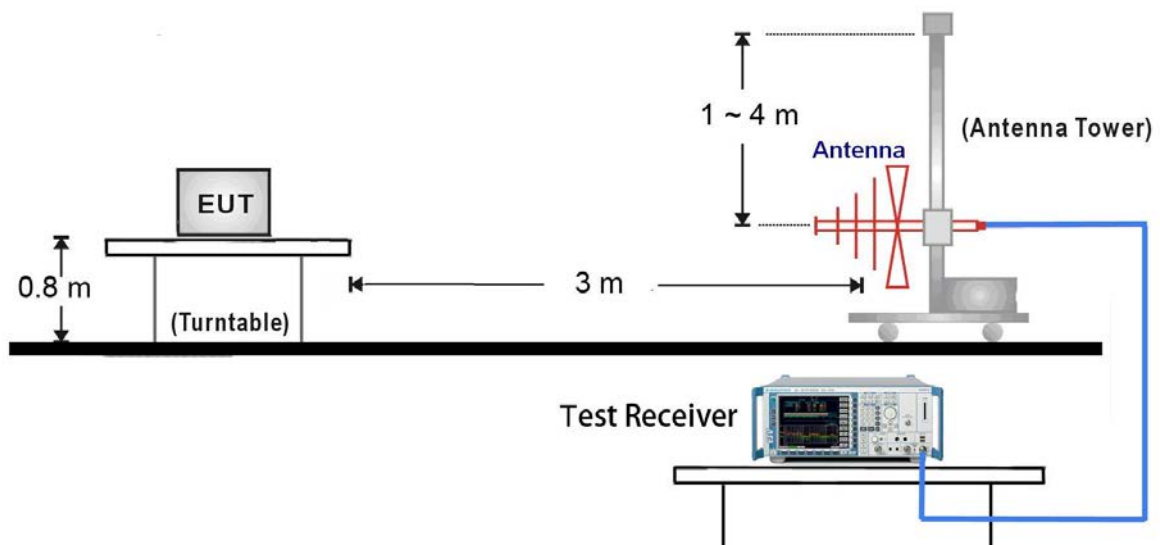
6.5.1. Standard Applicable

According to FCC Part 15.231(b)(e) and 15.35(c), for pulse operation transmitter, the averaging pulsed emissions are calculated by peak value of measured emission plus duty cycle factor.

6.5.2. Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 433.33 MHz, then set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

6.5.3. Test Setup



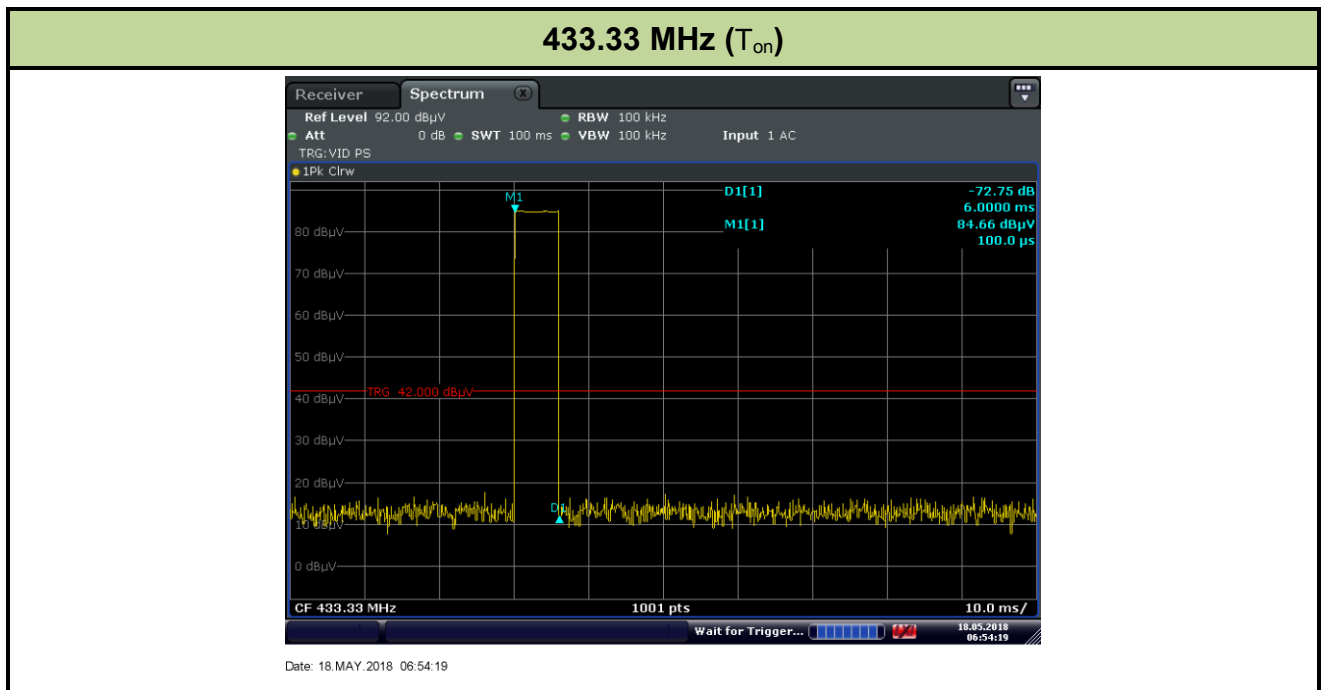
6.5.4. Test Result

Modulation Type	Total Time (T_{on}) (ms)	The duration of one cycle (ms)	Duty Cycle (ms)	Duty Cycle Factor (dB)
FSK	6	100	0.06	24.44

Note 1: Duty Cycle = Total Time (T_{on}) / 100ms.

Note 2: Duty Cycle Factor = $20 \cdot \log(1/\text{Duty Cycle})$.

Note 3: When Duty Cycle Factor $\geq 20\text{dB}$, The Factor need to be use 20dB.



6.6. AC Conducted Emissions Measurement

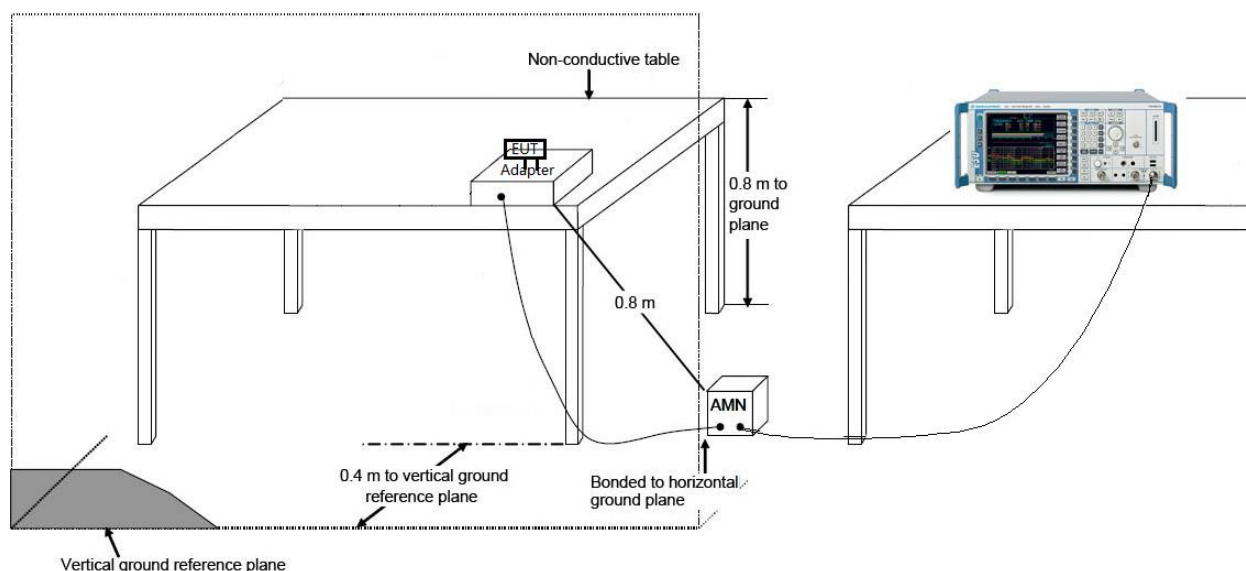
6.6.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Limits		
Frequency (MHz)	QP (dB μ V)	Average (dB μ V)
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.

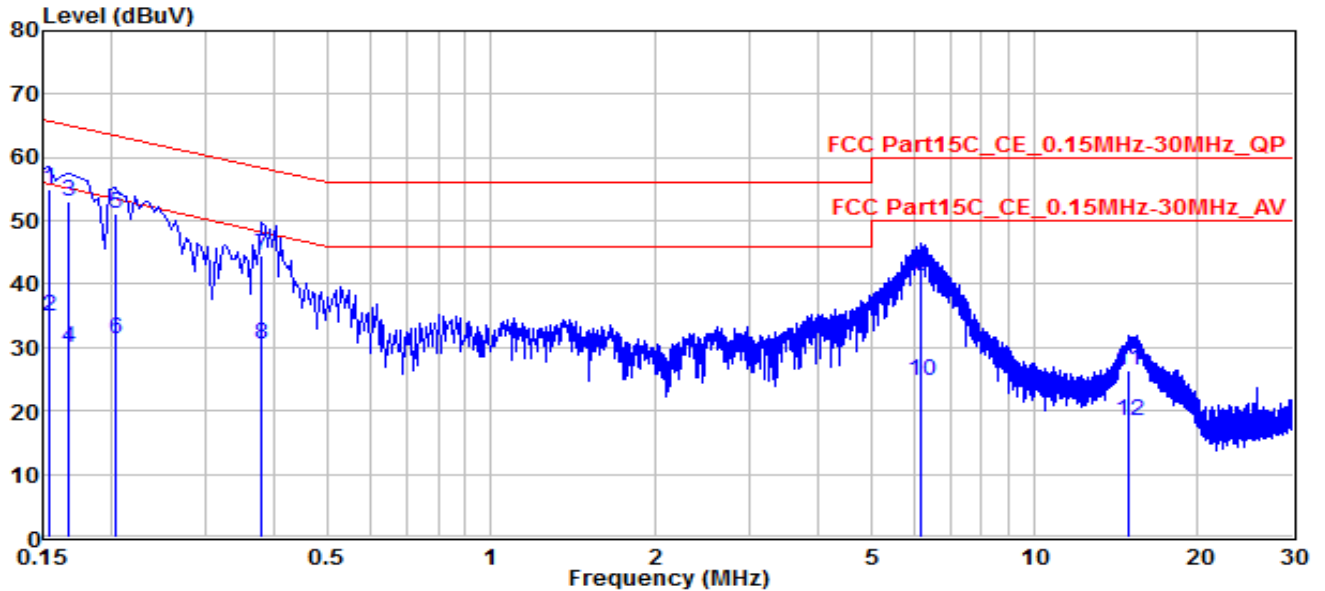
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.6.2. Test Setup



6.6.3. 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-CH14 with Adapter (1)	Test Voltage	AC120V/60Hz

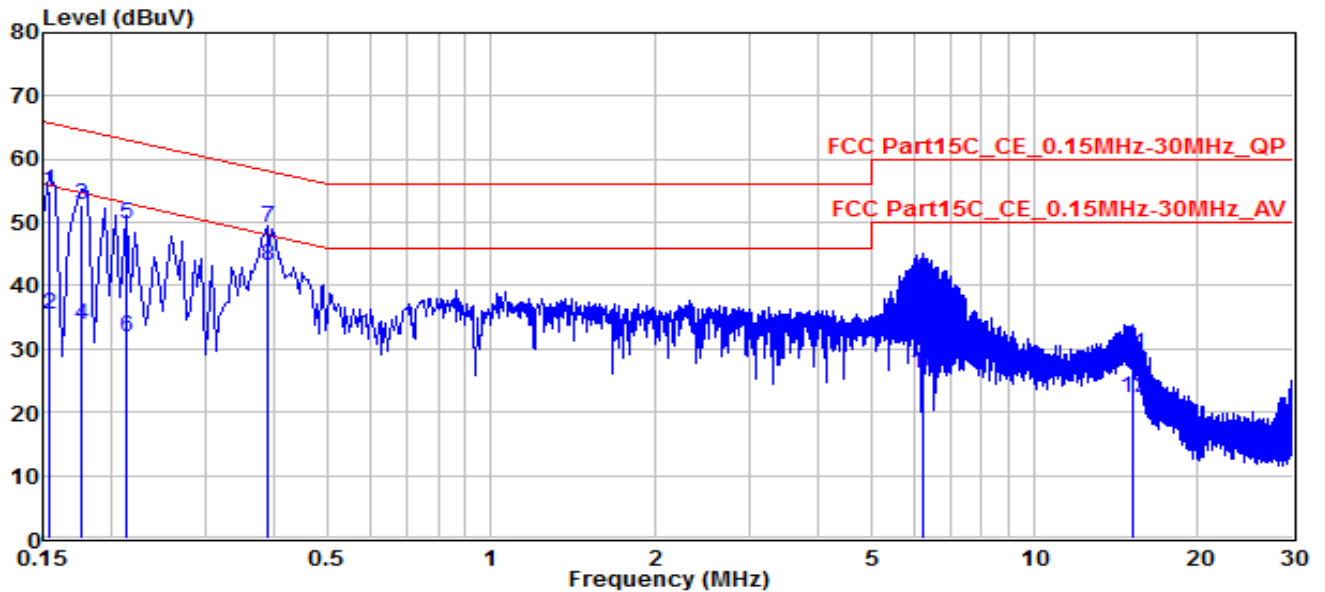


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	*	0.1545	45.13	9.94	55.07	-10.68	65.75	QP
2	*	0.1545	25	9.94	34.94	-20.81	55.75	Average
3		0.168	42.84	10.13	52.97	-12.09	65.06	QP
4		0.168	19.95	10.13	30.08	-24.98	55.06	Average
5		0.20399	41.3	9.92	51.22	-12.23	63.45	QP
6		0.20399	21.56	9.92	31.48	-21.97	53.45	Average
7		0.37948	34.46	10.03	44.49	-13.8	58.29	QP
8		0.37948	20.47	10.03	30.5	-17.79	48.29	Average
9		6.179	31.59	9.78	41.37	-18.63	60	QP
10		6.179	14.93	9.78	24.71	-25.29	50	Average
11		14.922	16.34	9.94	26.28	-33.72	60	QP
12		14.922	8.59	9.94	18.53	-31.47	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).

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-CH14 with Adapter (1)	Test Voltage	AC120V/60Hz

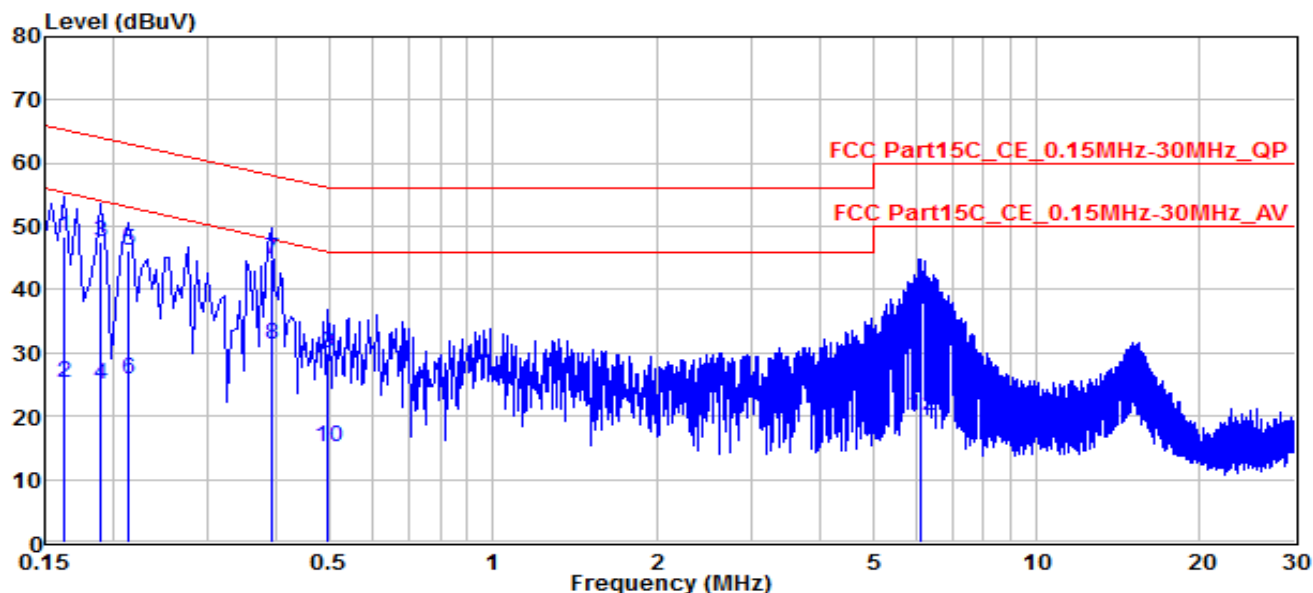


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.1545	44.96	9.95	54.91	-10.84	65.75	QP
2		0.1545	25.55	9.95	35.5	-20.25	55.75	Average
3		0.177	42.71	10.14	52.85	-11.78	64.63	QP
4		0.177	23.8	10.14	33.94	-20.69	54.63	Average
5		0.21299	39.79	9.89	49.68	-13.41	63.09	QP
6		0.21299	21.97	9.89	31.86	-21.23	53.09	Average
7		0.38848	39.11	10.03	49.14	-8.96	58.1	QP
8	*	0.38848	33.13	10.03	43.16	-4.94	48.1	Average
9	*	6.242	31.27	9.76	41.03	-18.97	60	QP
10		6.242	16.26	9.76	26.02	-23.98	50	Average
11		15.138	19.19	9.97	29.16	-30.84	60	QP
12		15.138	12.43	9.97	22.4	-27.6	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).

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-CH14 with Adapter (2)	Test Voltage	AC120V/60Hz

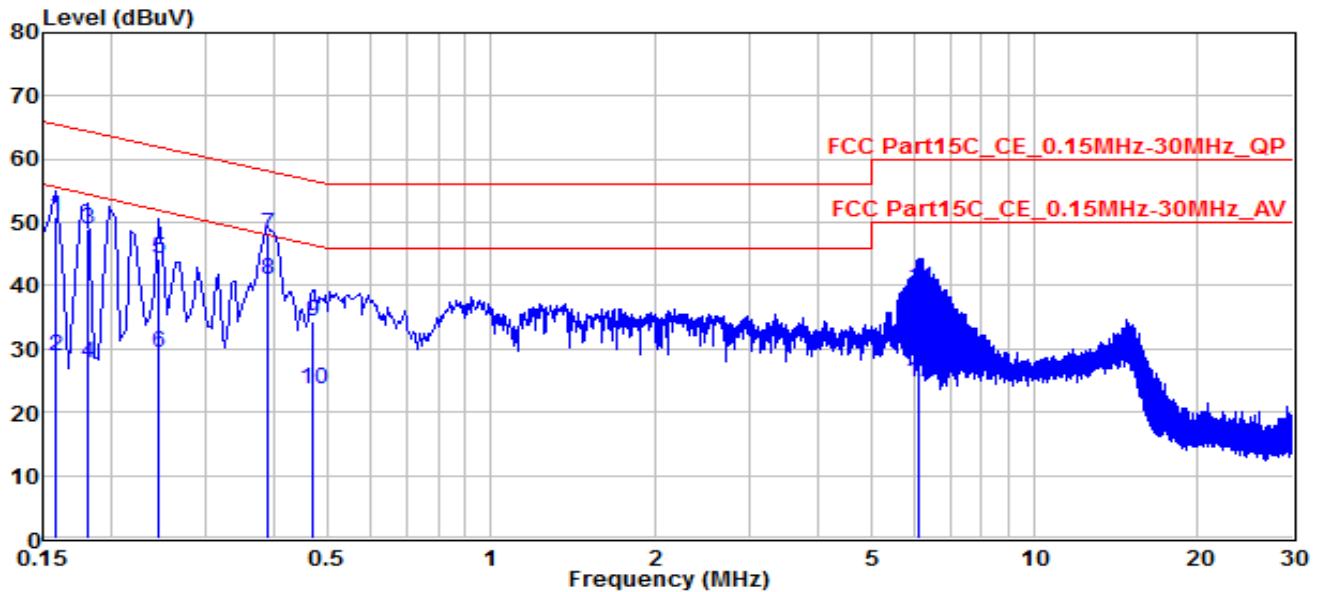


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.1635	38.22	10.12	48.34	-16.94	65.28	QP
2	0.1635	15.24	10.12	25.36	-29.92	55.28	Average
3	0.1905	37.5	10.03	47.53	-16.48	64.01	QP
4	0.1905	15	10.03	25.03	-28.98	54.01	Average
5	0.21299	36.38	9.93	46.31	-16.78	63.09	QP
6	0.21299	15.78	9.93	25.71	-27.38	53.09	Average
7	* 0.39298	34.65	10.04	44.69	-13.31	58	QP
8	* 0.39298	21.21	10.04	31.25	-16.75	48	Average
9	0.49647	19.87	10.11	29.98	-26.08	56.06	QP
10	0.49647	5.09	10.11	15.2	-30.86	46.06	Average
11	6.143	28.1	9.78	37.88	-22.12	60	QP
12	6.143	10.19	9.78	19.97	-30.03	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).

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-CH14 with Adapter (2)	Test Voltage	AC120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.159	40.76	10.06	50.82	-14.7	65.52	QP
2		0.159	18.89	10.06	28.95	-26.57	55.52	Average
3		0.1815	38.69	10.13	48.82	-15.6	64.42	QP
4		0.1815	17.65	10.13	27.78	-26.64	54.42	Average
5		0.24449	34.46	9.92	44.38	-17.56	61.94	QP
6		0.24449	19.4	9.92	29.32	-22.62	51.94	Average
7	*	0.38848	38.15	10.03	48.18	-9.92	58.1	QP
8	*	0.38848	31.06	10.03	41.09	-7.01	48.1	Average
9		0.46947	24.34	10.11	34.45	-22.07	56.52	QP
10		0.46947	13.54	10.11	23.65	-22.87	46.52	Average
11		6.157	29.91	9.76	39.67	-20.33	60	QP
12		6.157	15.08	9.76	24.84	-25.16	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)

7. CONCLUSION

The data collected relate only the item(s) tested and show that the **Asante Garage Viewer** is in compliance with FCC Part 15.231(b) of the FCC Rules.

_____ The End _____