



## FCC PART 15.249


### TEST REPORT

For

## Zeeva International Limited

Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong

**FCC ID: 2ADM5-U2**

<b>Report Type:</b> Original Report	<b>Product Type:</b> WIRELESS ARC MOUSE USB DONGLE
<b>Report Number:</b> RSZ190727831-00	
<b>Report Date:</b> 2019-12-04	
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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Product	WIRELESS ARC MOUSE USB DONGLE
Tested Model	MO-0029
Multiple Model <sup>#</sup>	MO-0026, MO-0027, MO-0028, MO-0030
UPC Number	192234013960, 192234015322, 192234027806, 192234030394
SKU Number	3077690, 3117132, 3148632, 3168366
Frequency Range	2403-2479MHz
Modulation Technique	GFSK
Antenna Specification	-10 dBi
Voltage Range	5V
Date of Test	2019-07-30~2019-12-03
Sample serial number	190727831 ( Assigned by Shenzhen BAACL)
Received date	2019-07-27
Sample/EUT Status	Good condition

*Notes: This series products model: MO-0026, MO-0027, MO-0028, MO-0030 and MO-0029 are electrically identical, model MO-0029 was selected for fully testing, the detailed information can be referred to the declaration which was stated and guaranteed by the applicant.*

### Objective

This type approval report is prepared on behalf of *Zeeva International Limited* in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.249 rules.

### Related Submittal(s)/Grant(s)

Submitted with Wireless Mouse unit submission with FCC ID: 2ADM5-MO-0030.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		±5%
RF Output Power with Power meter		±0.73dB
RF conducted test with spectrum		±1.6dB
AC Power Lines Conducted Emissions		±1.95dB
Emissions, Radiated	Below 1GHz	±4.75dB
	Above 1GHz	±4.88dB
Temperature		±1°C
Humidity		±6%
Supply voltages		±0.4%

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

## SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing by manufacturer.

Transmitting Frequency:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2403	2	2440
1	2439	3	2479

### EUT Exercise Software

No software was used.

### Equipment Modifications

No modifications were made to the unit tested.

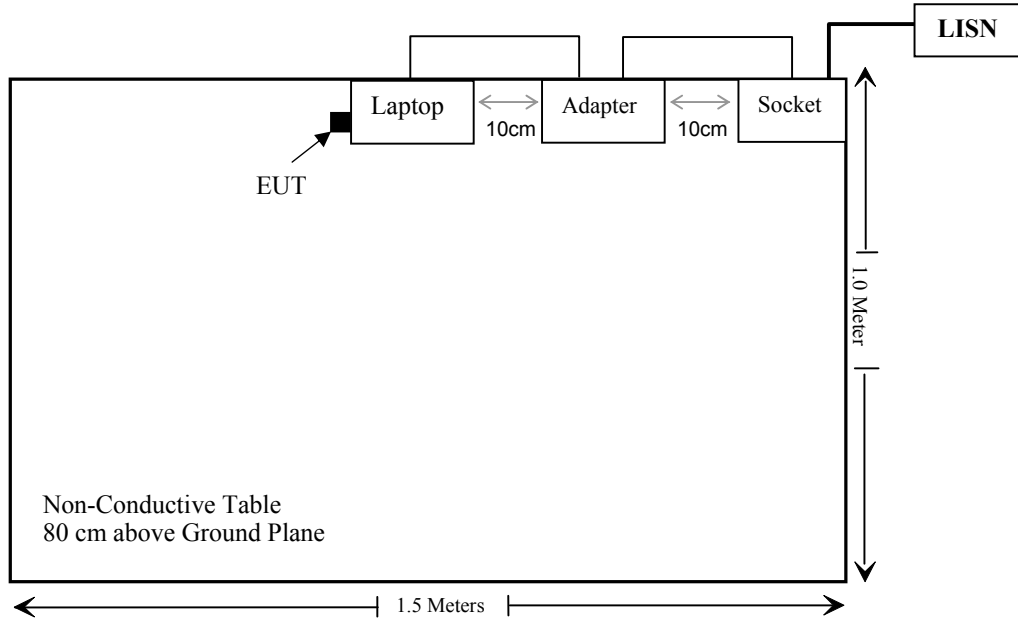
### Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
TOSHIBA	Laptop	C600-C02R	Unknown

### Support Cable Descriptions

Cable Description	Length (m)	From/Port	To
Un-shielded detachable AC Power Cord	1.0	Adapter	Socket
Un-shielded un-detachable DC Power Cord	1.0	Adapter	Laptop

### Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Result</b>
§15.203	Antenna Requirement	Compliance
§15.207(a)	Conduction Emissions	Compliance
15.205, §15.209, §15.249(d)	Radiated Emissions& Outside of Band Emission	Compliance
§15.215 (c)	20 dB Bandwidth	Compliance

**TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>AC Line Conducted Emission Test</b>					
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2019-07-11	2020-07-11
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2019-01-25	2020-01-25
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2019-03-02	2020-03-01
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
<b>Radiated Emission Test For Below 1GHz</b>					
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017-12-22	2020-12-21
Sonoma Instrument	Amplifier	310N	186238	2018-11-12	2019-11-12
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2019-07-11	2020-07-11
UTiFLEX MICRO-COAX	RF Cable	UFA147A-2362-100100	MFR64639231029-003	2018-11-12	2019-11-12
Ducommun Technologies	RF Cable	104PEA	218124002	2018-11-12	2019-11-12
<b>Radiated Emission Test For Above 1GHz</b>					
A.H. System	Horn Antenna	SAS-200/571	135	2018-09-01	2021-08-31
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2019-07-22	2020-07-21
Ducommun Technologies	RF Cable	RG-214	1	2019-11-19	2020-05-21
Ducommun Technologies	RF Cable	RG-214	2	2019-11-12	2020-11-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-04	2017-12-29	2020-12-28
Heatsink Required	Amplifier	QLW-18405536-J0	15964001002	2019-11-12	2020-11-12
COM-POWER	Pre-amplifier	PA-122	181919	2019-11-12	2020-11-12

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).



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## **FCC§15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### **Antenna Connector Construction**

The EUT has one PCB antenna which was permanently attached and the antenna gain is -10 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

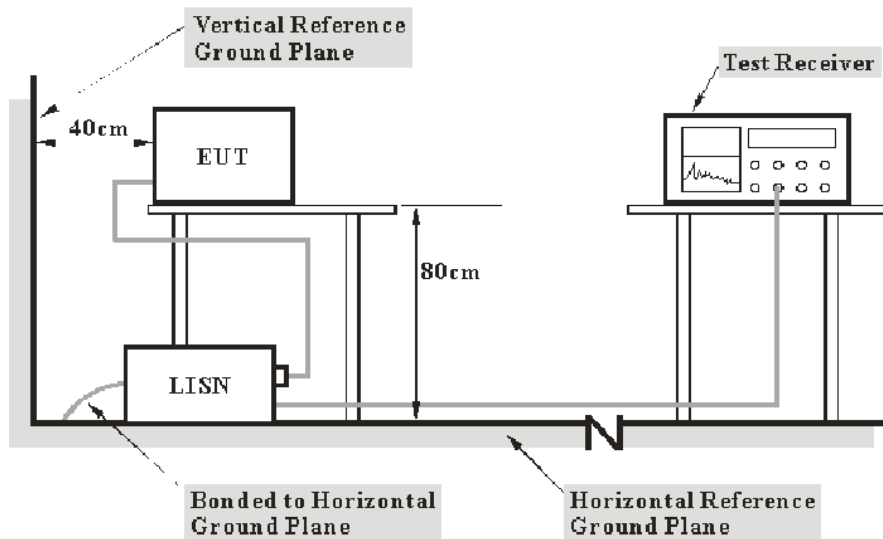
**Result:** Compliance.

## FCC §15.207 – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

According to FCC §15.207

### EUT Setup



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with per ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

### Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

## Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL.,  $U_{(Lm)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

## Test Data

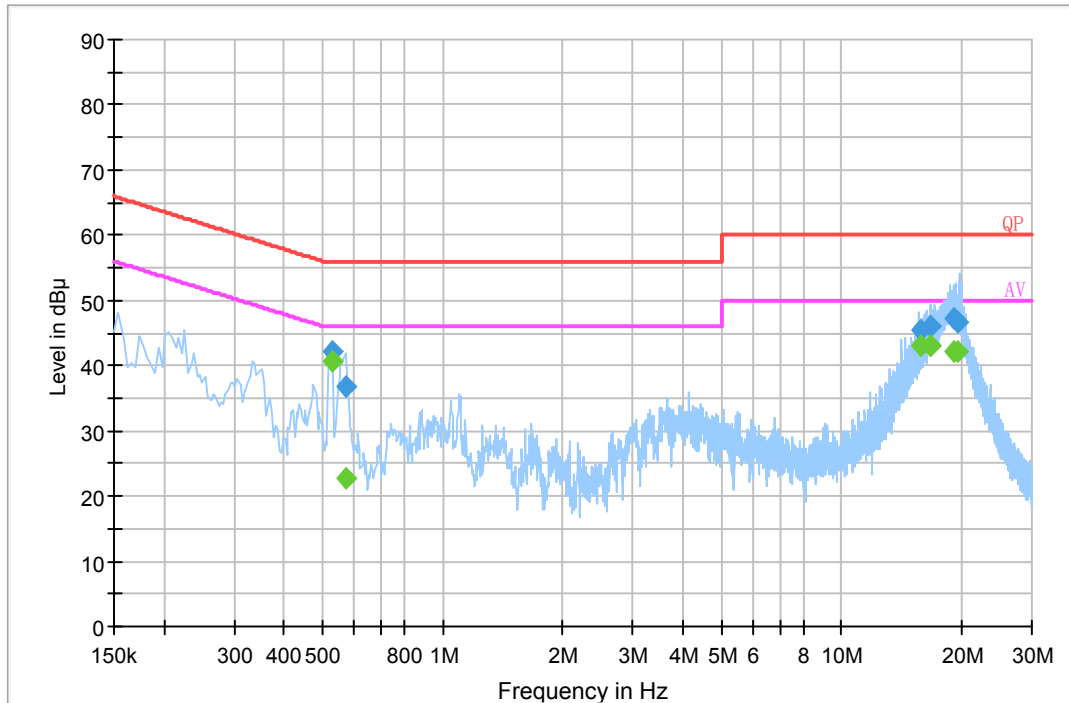
### Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

*The testing was performed by Haiguo Li on 2019-08-03.*

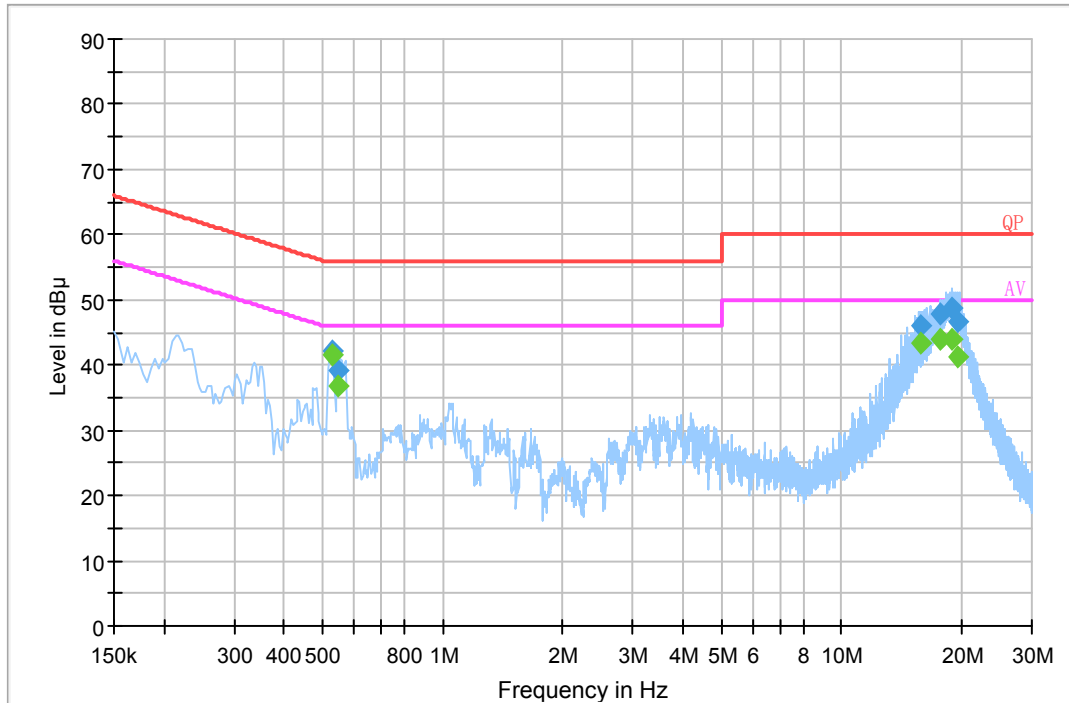
*EUT Operation Mode: Transmitting (Test at 2403MHz)*

**AC 120V/60 Hz, Line**



Frequency (MHz)	Corrected Amplitude (dB $\mu$ V)	Corrected Factor (dB)	Limit (dB $\mu$ V)	Margin (dB)	Remark (PK/QP/Ave.)
0.526110	42.1	19.8	56.0	13.9	QP
0.569450	36.9	19.8	56.0	19.1	QP
15.770650	45.4	20.1	60.0	14.6	QP
16.731050	46.1	20.2	60.0	13.9	QP
19.152830	47.1	20.5	60.0	12.9	QP
19.572250	46.7	20.5	60.0	13.3	QP
0.526110	40.6	19.8	46.0	5.4	Ave.
0.569450	22.7	19.8	46.0	23.3	Ave.
15.770650	43.0	20.1	50.0	7.0	Ave.
16.731050	43.0	20.2	50.0	7.0	Ave.
19.152830	42.3	20.5	50.0	7.7	Ave.
19.572250	42.0	20.5	50.0	8.0	Ave.

**AC 120V/60 Hz, Neutral**



Frequency (MHz)	Corrected Amplitude (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/QP/Ave.)
0.526110	42.0	19.8	56.0	14.0	QP
0.549750	39.1	19.8	56.0	16.9	QP
15.729450	46.0	20.0	60.0	14.0	QP
17.585430	47.8	20.2	60.0	12.2	QP
18.895730	48.9	20.3	60.0	11.1	QP
19.636130	46.5	20.4	60.0	13.5	QP
0.526110	41.4	19.8	46.0	4.6	Ave.
0.549750	36.8	19.8	46.0	9.2	Ave.
15.729450	43.3	20.0	50.0	6.7	Ave.
17.585430	43.9	20.2	50.0	6.1	Ave.
18.895730	43.8	20.3	50.0	6.2	Ave.
19.636130	41.3	20.4	50.0	8.7	Ave.

**Note:**

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation  
The corrected factor has been input into the transducer of the test software.
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

**FCC§15.205, §15.209 & §15.249(d) - RADIATED EMISSIONS****Applicable Standard**

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

<b>Fundamental frequency</b>	<b>Field strength of fundamental (millivolts/meter)</b>	<b>Field strength of harmonics (microvolts/meter)</b>
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

As per FCC§15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

**Test Equipment Setup**

The spectrum analyzer or receiver is set as:

Below 1000MHz:

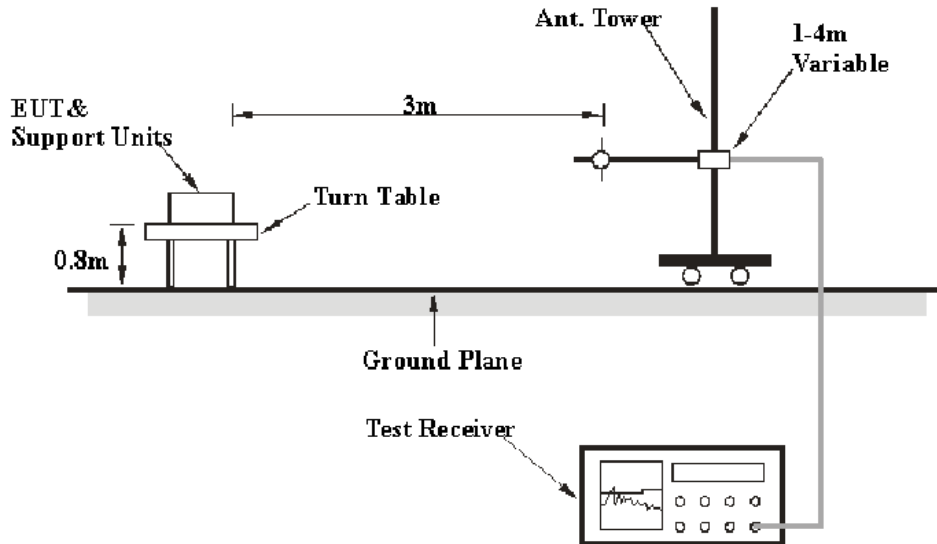
$$\text{RBW} = 100 \text{ kHz} / \text{VBW} = 300 \text{ kHz} / \text{Sweep} = \text{Auto}$$

Above 1000MHz:

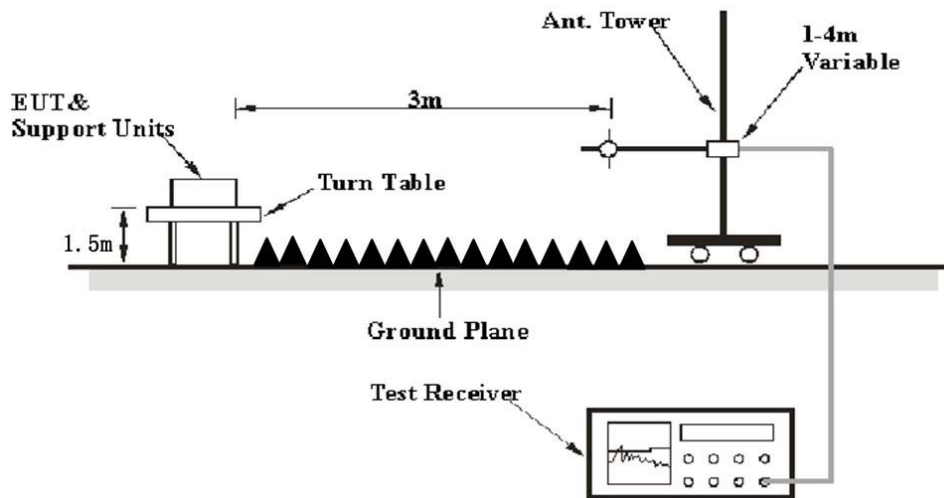
$$\begin{aligned} \text{Peak: RBW} &= 1\text{MHz} / \text{VBW} = 1\text{MHz} / \text{Sweep} = \text{Auto} \\ \text{Average: RBW} &= 1\text{MHz} / \text{VBW} = 10\text{Hz} / \text{Sweep} = \text{Auto} \end{aligned}$$

**EUT Setup**

**Below 1GHz:**



**Above 1GHz:**



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 mete, and the EUT is placed on a turntable, which is 0.8 meter above ground plane for below 1GHz or 1.5 meter for above 1GHz, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

## Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

## Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.205, 15.209 & §15.249

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(L_m)} \leq L_{\text{lim}} + U_{\text{cispr}}$$

In BAACL,  $U_{(L_m)}$  is less than  $U_{\text{cispr}}$ , if  $L_m$  is less than  $L_{\text{lim}}$ , it implies that the EUT complies with the limit.

## Test Data

### Environmental Conditions

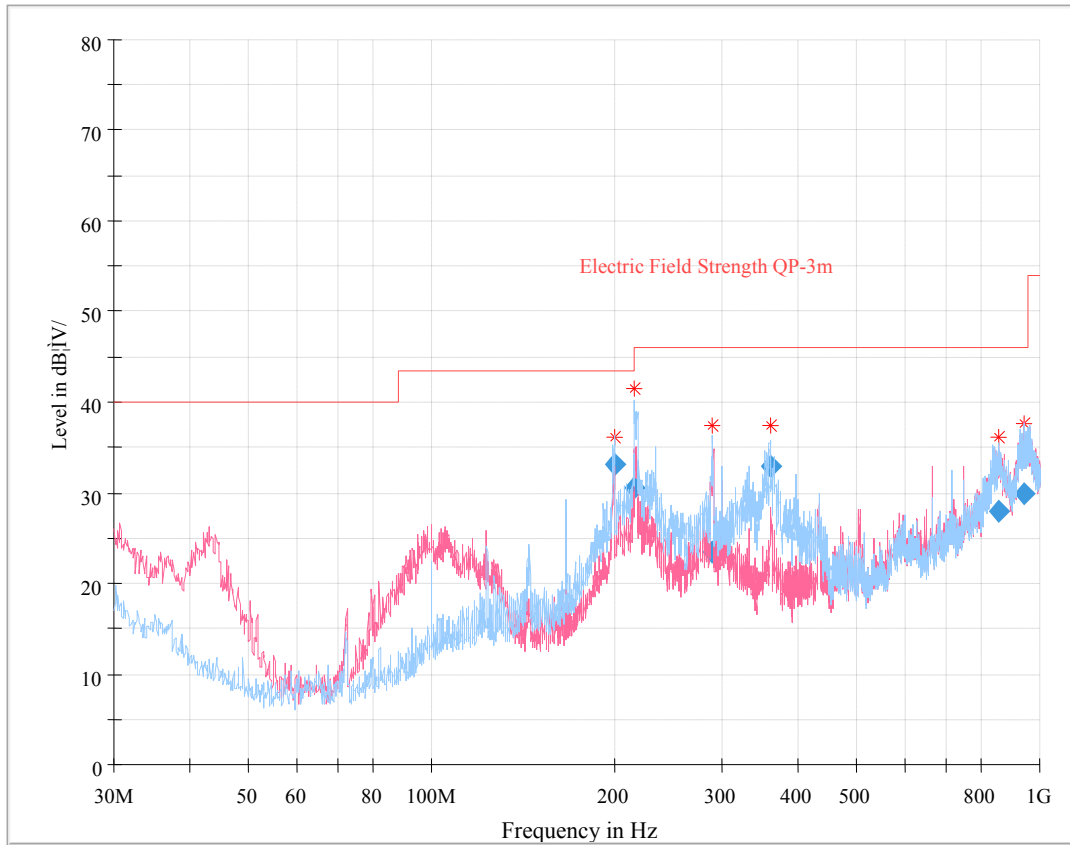
Temperature:	25~26 °C
Relative Humidity:	50~52 %
ATM Pressure:	100.0~101.0 kPa

*The testing was performed by Andy Yu on 2019-07-30 for below 1GHz and Curry Xiang on 2019-11-21 and 2019-12-03 for above 1GHz.*

*Test Mode: Transmitting*



30MHz – 1 GHz: Test at 2403MHz



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
199.965000	33.08	250.0	H	56.0	-13.8	43.50	10.42
216.046875	30.44	156.0	H	106.0	-13.9	46.00	15.56
290.326375	23.46	115.0	H	295.0	-11.3	46.00	22.54
360.655000	32.98	108.0	H	177.0	-10.7	46.00	13.02
854.627375	28.04	240.0	V	308.0	6.7	46.00	17.96
939.903375	29.92	285.0	V	86.0	8.8	46.00	16.08

1 GHz - 25 GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	FCC Part 15.249&15.209	
	Reading (dBµV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
2403 MHz									
2403.00	60.13	PK	299	1.0	H	-0.36	59.77	114	54.23
2403.00	46.42	Ave.	299	1.0	H	-0.36	46.06	94	47.94
2403.00	59.69	PK	354	1.4	V	-0.36	59.33	114	54.67
2403.00	46.07	Ave.	354	1.4	V	-0.36	45.71	94	48.29
2400.00	29.26	PK	95	2.3	H	31.87	61.13	74	12.87
2400.00	14.83	Ave.	95	2.3	H	31.87	46.70	54	7.30
2346.41	27.43	PK	68	1.8	H	31.64	59.07	74	14.93
2346.41	13.3	Ave.	68	1.8	H	31.64	44.94	54	9.06
2497.89	27.19	PK	101	1.4	H	32.13	59.32	74	14.68
2497.89	13.12	Ave.	101	1.4	H	32.13	45.25	54	8.75
4806.00	47.58	PK	348	2.0	H	5.40	52.98	74	21.02
4806.00	35.91	Ave.	348	2.0	H	5.40	41.31	54	12.69
2439 MHz									
2439.00	57.83	PK	235	2.5	H	-0.26	57.57	114	56.43
2439.00	44.95	Ave.	235	2.5	H	-0.26	44.69	94	49.31
2439.00	54.46	PK	44	1.9	V	-0.26	54.20	114	59.80
2439.00	41.75	Ave.	44	1.9	V	-0.26	41.49	94	52.51
4878.00	45.63	PK	340	1.1	H	6.43	52.06	74	21.94
4878.00	34.09	Ave.	340	1.1	H	6.43	40.52	54	13.48
2479 MHz									
2479.00	61.32	PK	200	2.1	H	-0.15	61.17	114	52.83
2479.00	49.07	Ave.	200	2.1	H	-0.15	48.92	94	45.08
2479.00	60.61	PK	102	1.7	V	-0.15	60.46	114	53.54
2479.00	47.22	Ave.	102	1.7	V	-0.15	47.07	94	46.93
2368.99	28.53	PK	352	1.5	H	31.87	60.40	74	13.60
2368.99	14.78	Ave.	352	1.5	H	31.87	46.65	54	7.35
2485.18	28.45	PK	66	1.1	H	32.13	60.58	74	13.42
2485.18	14.62	Ave.	66	1.1	H	32.13	46.75	54	7.25
4958.00	45.42	PK	239	2.0	H	6.95	52.37	74	21.63
4958.00	33.71	Ave.	239	2.0	H	6.95	40.66	54	13.34

**Note:**

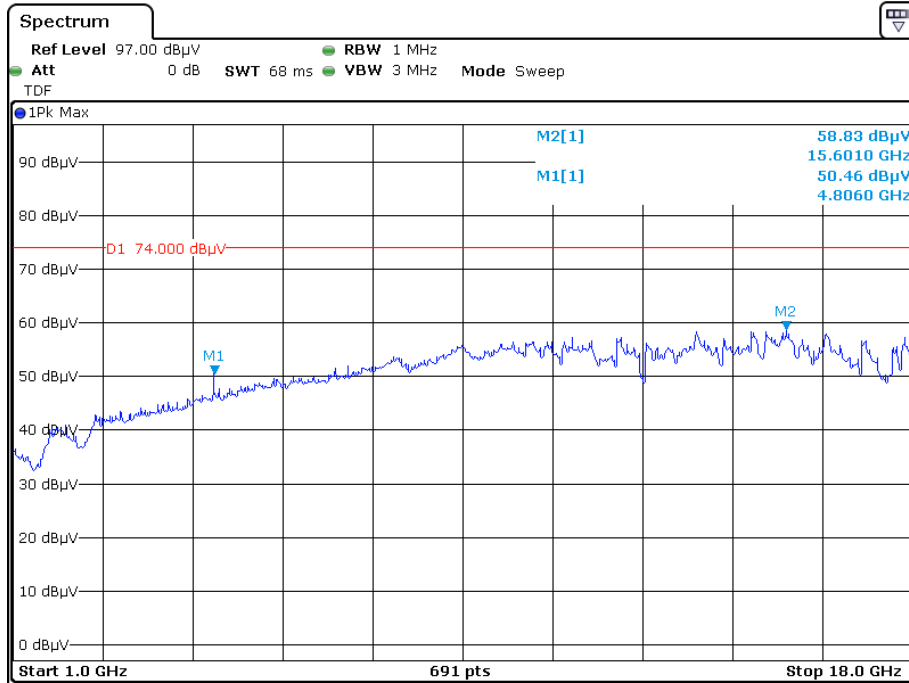
Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) +cable loss – amplifier factor

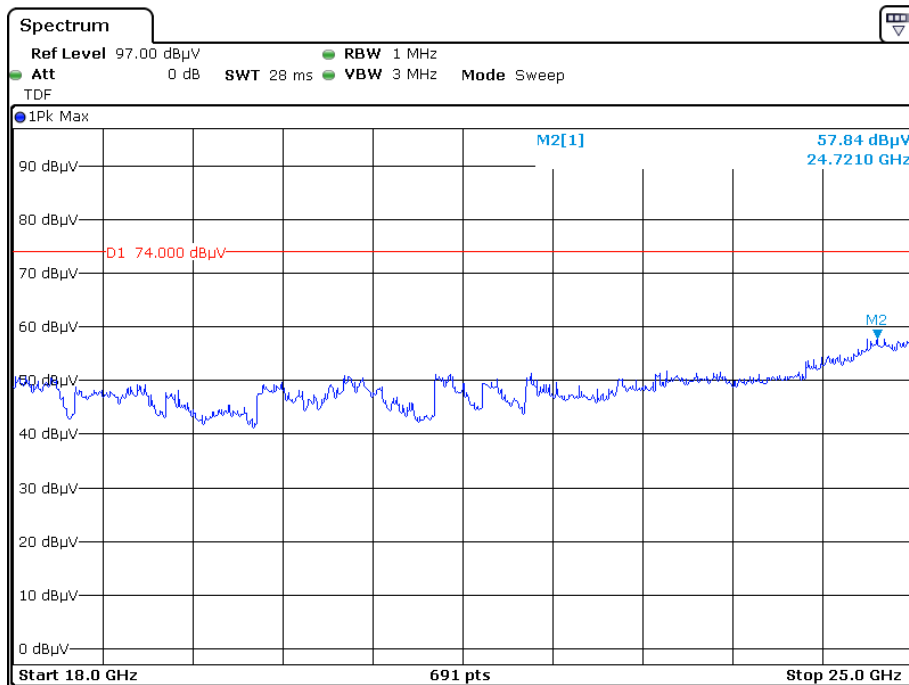
Margin = Limit- Corr. Amplitude

The emission more than 20dB below the limit was not required to be recorded.

### Pre-scan For Peak, 2403MHz Horizontal

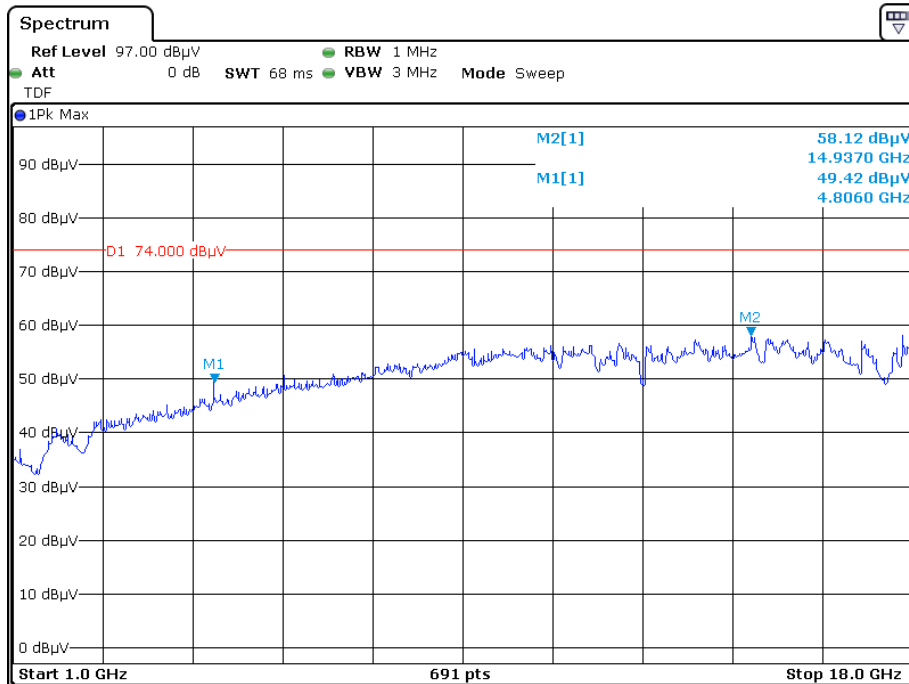


Date: 21.NOV.2019 19:30:47

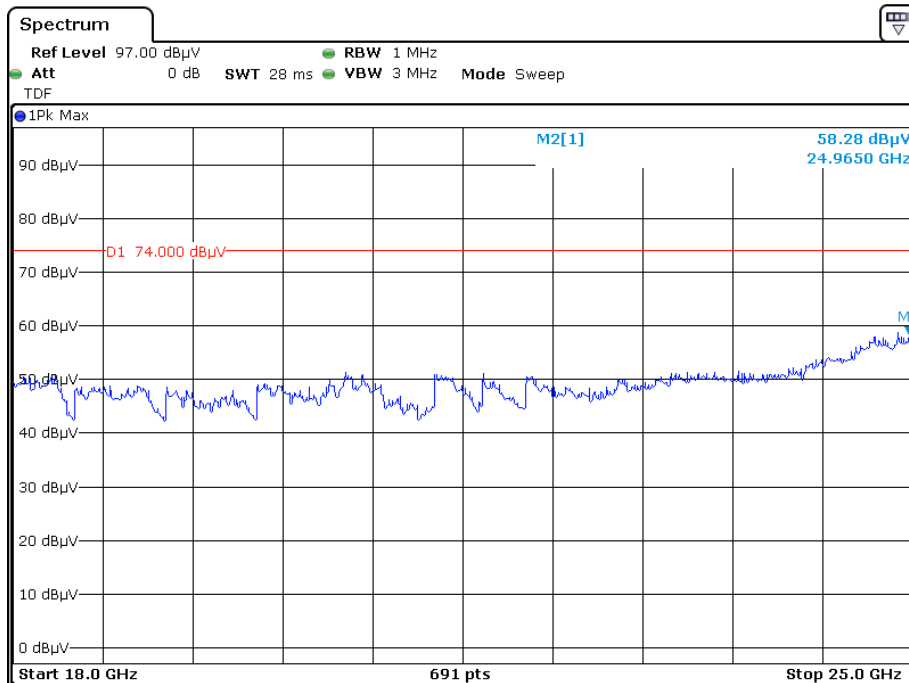


Date: 21.NOV.2019 20:22:25

Vertical

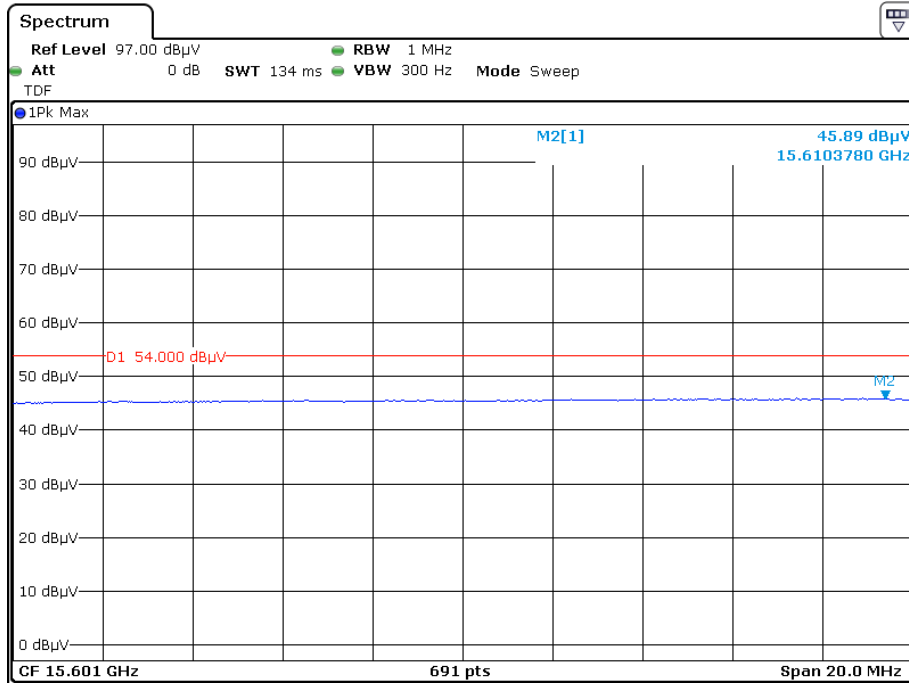


Date: 21.NOV.2019 19:38:56

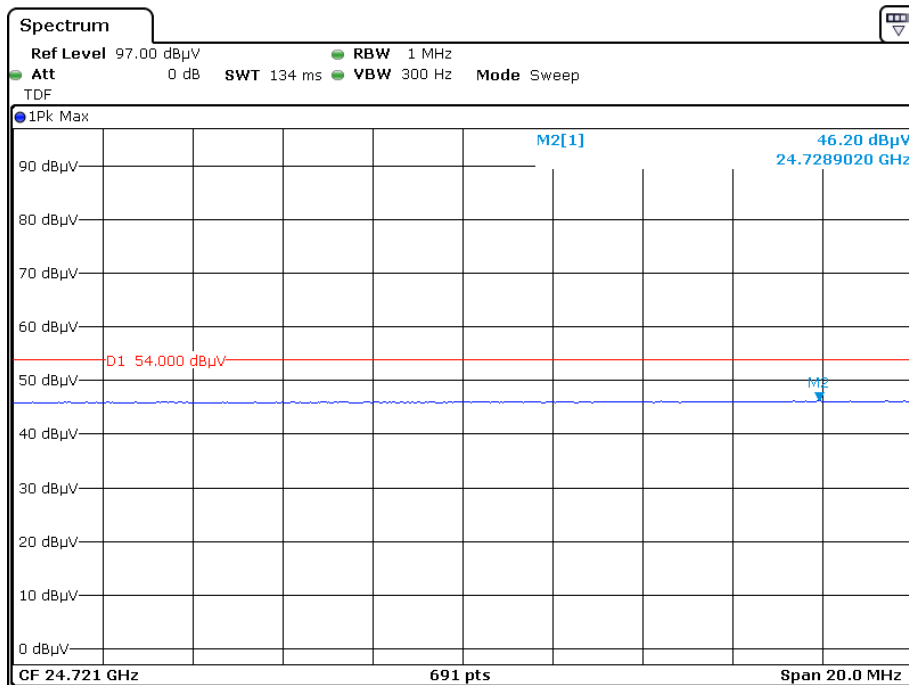


Date: 21.NOV.2019 20:29:28

### For Average Horizontal

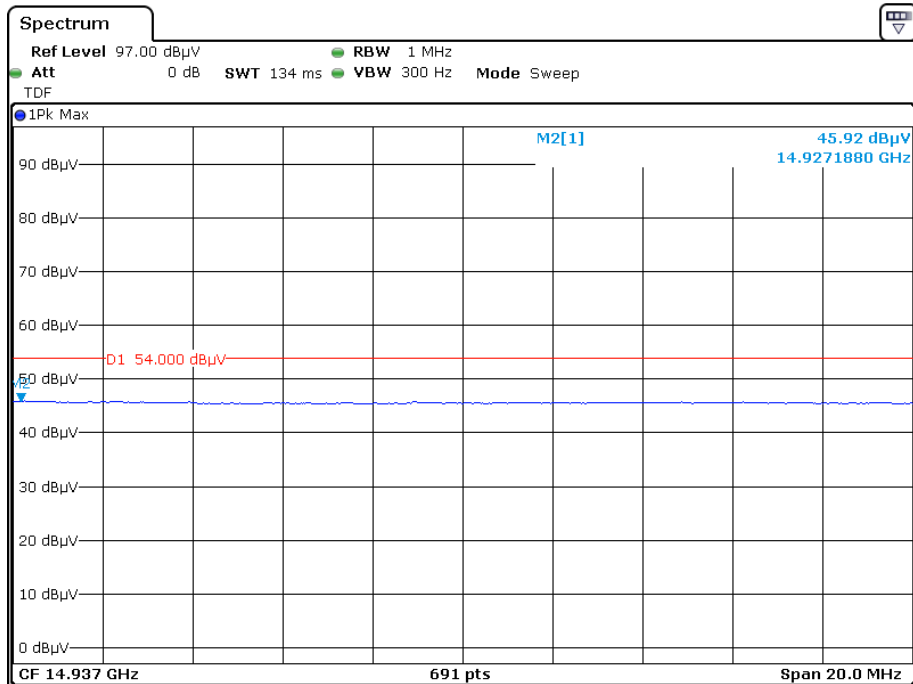


Date: 21.NOV.2019 19:34:20

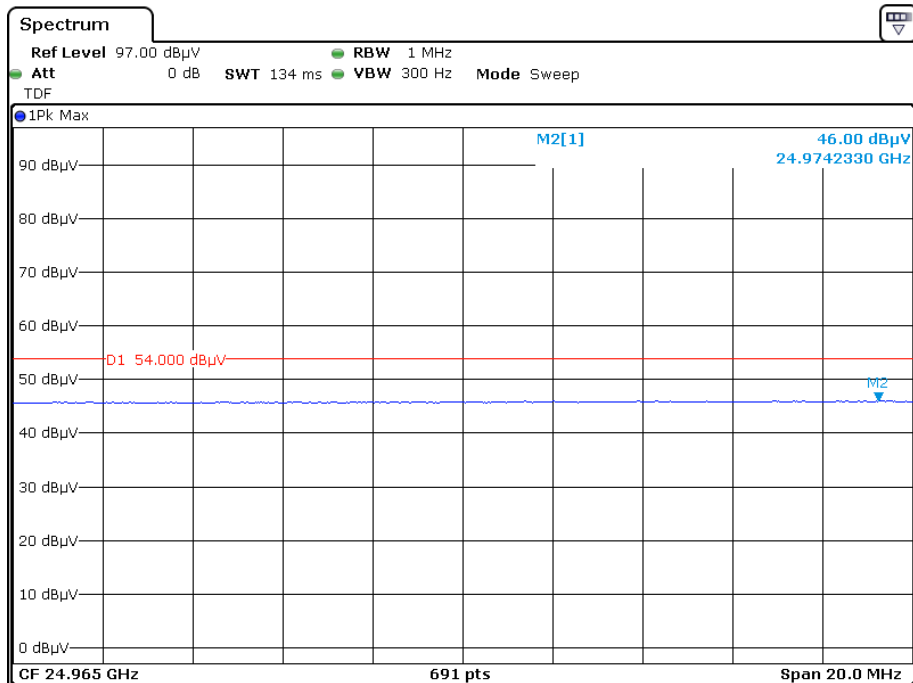


Date: 21.NOV.2019 20:25:58

Vertical



Date: 21.NOV.2019 19:42:28



Date: 21.NOV.2019 20:34:11

## FCC§15.215(c) - 20dB EMISSION BANDWIDTH

### Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

### Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that indicated 20dB bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

### Test Data

#### Environmental Conditions

<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	50 %
<b>ATM Pressure:</b>	101.0 kPa

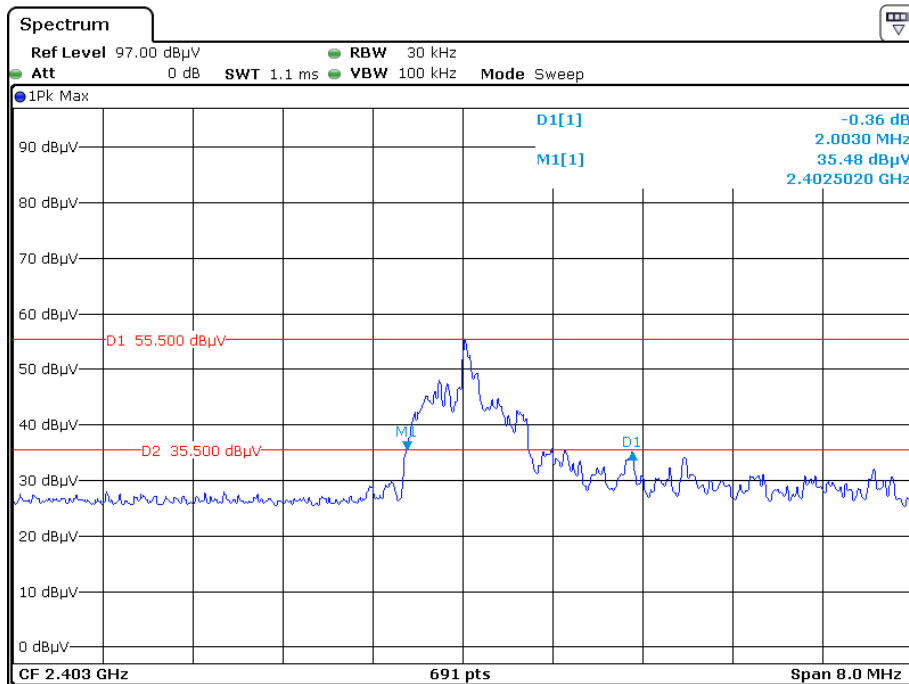
*The testing was performed by Curry Xiang on 2019-11-21.*

*Test Mode: Transmitting*

*Please refer to the following table and plot.*

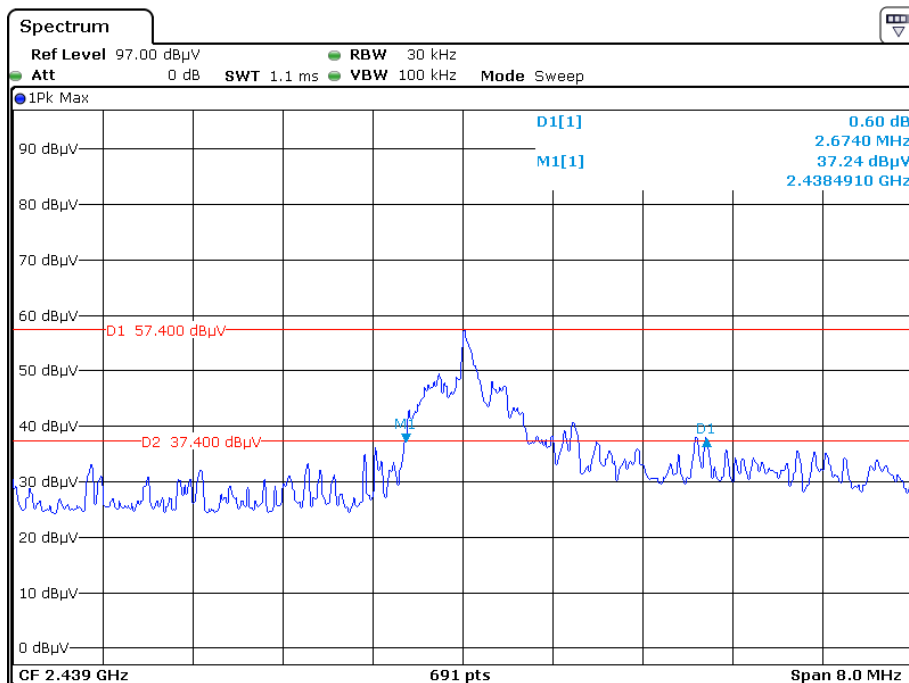
<b>Frequency (MHz)</b>	<b>20dB Bandwidth (MHz)</b>
2403	2.00
2439	2.67
2479	2.78

### Low Channel



Date: 21.NOV.2019 18:52:24

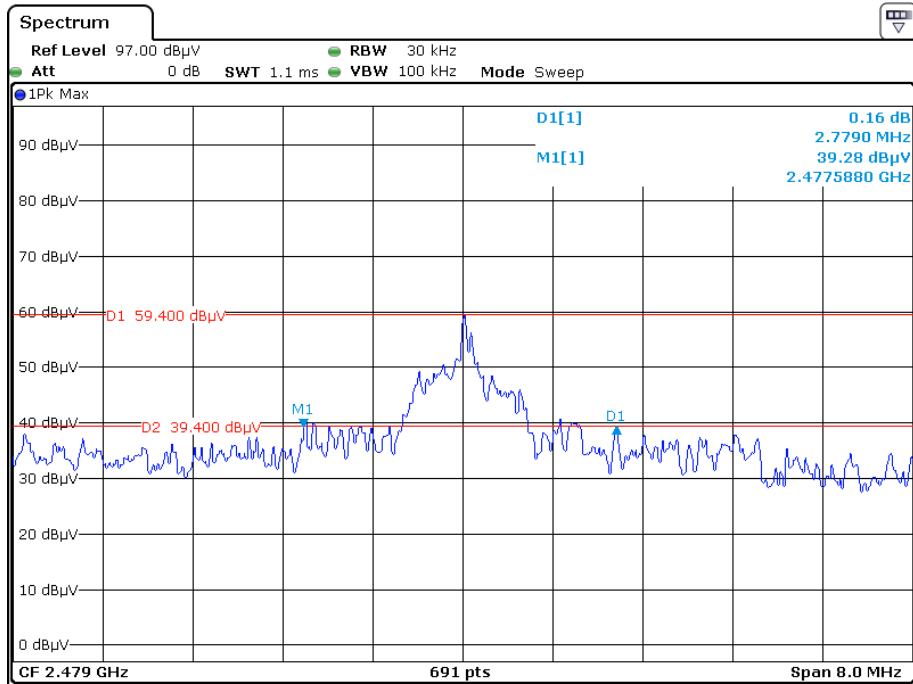
### Middle Channel



Date: 21.NOV.2019 18:44:11



### High Channel



Date: 21.NOV.2019 18:38:24

\*\*\*\*\* END OF REPORT \*\*\*\*\*