



# FCC RADIO TEST REPORT

Applicant : ADESSO INC.

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Address : 160 Commerce Way Walnut, CA 91789, U.S.A.

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Equipment : Wireless Mouse

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Model No. : iMouse V10, iMouse S50X, iMouse S60X, iMouse S70X,  
iMouse S80X, iMouse S90X, iMouse S55X, iMouse S65X,  
iMouse S75X, iMouse S85X, iMouse V20, iMouse V30, iMouse  
V40, iMouse V50, iMouse V60, iMouse M50, iMouse M60,  
iMouse M70, iMouse M90, iMouse E55

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Trade Name : **ADESSO**

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FCC ID : 2ACFQIV10

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### I HEREBY CERTIFY THAT :

The sample was received on Dec. 27, 2017 and the testing was carried out on Jan. 08, 2018 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao

EMC/RF B.U. Manager

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory

<b>TAF LAB Code:</b>	<b>1439</b>
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## Contents

<b>1. Summary of Test Procedure and Test Results.....</b>	<b>4</b>
1.1 Applicable Standards .....	4
<b>2. Test Configuration of Equipment under Test.....</b>	<b>5</b>
2.1 Feature of Equipment under Test.....	5
2.2 Carrier Frequency of Channels.....	5
2.3 Test Mode and Test Software.....	5
2.4 Description of Test System.....	6
2.5 General Information of Test.....	7
<b>3. Test Equipment and Ancillaries Used for Tests.....</b>	<b>8</b>
<b>4. Antenna Requirements.....</b>	<b>9</b>
4.1 Standard Applicable .....	9
4.2 Antenna Construction and Directional Gain.....	9
<b>5. Test of AC Power Line Conducted Emission.....</b>	<b>10</b>
5.1 Test Limit.....	10
5.2 Test Procedures .....	10
5.3 Typical Test Setup .....	11
5.4 Test Result and Data.....	11
<b>6. Test of Spurious Emission (Radiated).....</b>	<b>12</b>
6.1 Test Limit.....	12
6.2 Test Procedures .....	12
6.3 Typical Test Setup .....	13
6.4 Test Result and Data (30MHz ~ 1GHz).....	14
6.5 Test Result and Data (1GHz ~ 25GHz).....	15
<b>7. 20dB Bandwidth Measurement Data.....</b>	<b>18</b>
7.1 Test Limit.....	18
7.2 Test Procedure.....	18
7.3 Test Setup Layout .....	18
7.4 Test Result and Data.....	18
<b>8. Band Edges Measurement.....</b>	<b>21</b>
8.1 Test Limit.....	21
8.2 Test Procedure.....	21
8.3 Test Setup Layout .....	21
8.4 Restrict band emission Measurement Data.....	22
<b>9. Restricted Bands of Operation.....</b>	<b>24</b>
9.1 Labeling Requirement.....	24





# 1. Summary of Test Procedure and Test Results

## 1.1 Applicable Standards

**ANSI C63.4: 2014**

**FCC Rules and Regulations Part 15 Subpart C §15.249**

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	N/A
15.209 15.249(a)(d)	. Radiated Emission	Pass
15.215(c)	. 20dB Bandwidth Measurement	Pass
15.249(d)	. Band Edges Measurement Data	Pass



## 2. Test Configuration of Equipment under Test

### 2.1 Feature of Equipment under Test

Product	Wireless Mouse
Test Model	iMouse V10, iMouse S50X, iMouse S60X, iMouse S70X, iMouse S80X, iMouse S90X, iMouse S55X, iMouse S65X, iMouse S75X, iMouse S85X, iMouse V20, iMouse V30, iMouse V40, iMouse V50, iMouse V60, iMouse M50, iMouse M60, iMouse M70, iMouse M90, iMouse E55
Model Discrepancy	Different color or tooling
Frequency Range	2.4 GHz ISM radio band
Number of Channels	34
Modulation	FSK
Antenna Type	PCB Antenna /-5.35dBi
Power Supply Rating	DC 1.5V by battery (AA 1.5V)

Note: for more details, please refer to the User's manual of the EUT.

### 2.2 Carrier Frequency of Channels

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*01</b>	<b>2408</b>	18	2442
02	2410	19	2444
03	2412	20	2446
04	2414	21	2448
05	2416	22	2450
06	2418	23	2452
07	2420	24	2454
08	2422	25	2456
09	2424	26	2458
10	2426	27	2460
11	2428	28	2462
12	2430	29	2464
13	2432	30	2466
14	2434	31	2468
15	2436	32	2470
16	2438	33	2472
<b>*17</b>	<b>2440</b>	<b>*34</b>	<b>2474</b>

Note: Channels remarked \* are selected to perform test.

### 2.3 Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- The complete test system included support units and EUT for the RF test.
- The EUT had been tested under operating condition  
EUT staying in continuous transmitting mode was programmed.  
Channel Low (2408MHz), Channel Mid (2440MHz) and Channel High (2474MHz) were chosen for full testing.



## **2.4 Description of Test System**

The EUT has been tested as an independent unit together without any other necessary accessories or support units.



## 2.5 General Information of Test

☒	Test Site	<b>CerpPASS Technology Corporation Test Laboratory</b> Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582
	FCC	TW1079, TW1061, TW1439
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-3428, R-4218 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz
Frequency Range Investigated:		Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 25000MHz
Test Distance:		The test distance of radiated emission from antenna to EUT is 3 M.

## 2.6 Measurement Uncertainty

Measurement	Frequency	Polarization	Uncertainty
AC Power Line Conducted Emission	9kHz~30MHz	Line/Neutral	± 2.9076dB
Radiated emissions	9kHz~25000MHz	Vertical /Horizontal	± 0.948dB
20dB Bandwidth	---	---	74.224Hz



### 3. Test Equipment and Ancillaries Used for Tests

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Test Receiver	R&S	ESCI	100853	2017.02.14	2018.02.13
Preamplifier	HP	8447F	3113A05915	2017.02.14	2018.02.13
Loop Antenna	R&S	HFH2-Z2	100150	2017.10.24	2018.10.23
Horn Antenna	EMCO	3116	31974	2017.02.18	2018.02.17
Ultra Broadband Antenna	SCHAFFNER	CBL6112D	22241	2017.02.14	2018.02.13
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-347	2017.05.07	2018.05.06
Preamplifier	COM-POWER	PA-840	711885	2017.03.22	2018.03.21
Broad-Band Horn Antenna	Sunol	DRH-118	A072913	2017.09.22	2018.09.21
EXA Signal Analyzer	Agilent	N9020A	US46220290	2017.05.26	2018.05.25
Temperature/Humidity Meter	mingle	ETH529	N/A	2017.02.14	2018.02.13





## 4. Antenna Requirements

### 4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

### 4.2 Antenna Construction and Directional Gain

Antenna	Peak Gain
PCB antenna	-5.35dBi



## 5. Test of AC Power Line Conducted Emission

### 5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2014. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

\*Decreases with the logarithm of the frequency.

### 5.2 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.





## 6. Test of Spurious Emission (Radiated)

### 6.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2014. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions for unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated ( $\mu\text{V} / \text{M}$ )	Radiated (dB $\mu\text{V} / \text{M}$ )
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

Frequency (MHz)	Distance Meters	Radiated (dB $\mu\text{V} / \text{M}$ )
30-230	10	30
230-1000	10	37

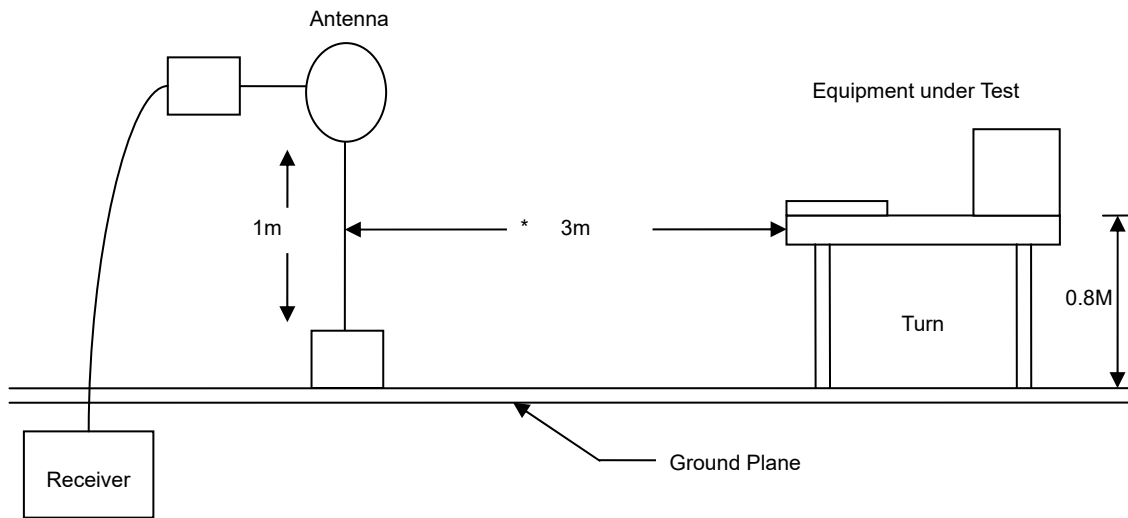
### 6.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- “Cone of radiation” has been considered to be 3dB bandwidth of the measurement antenna.

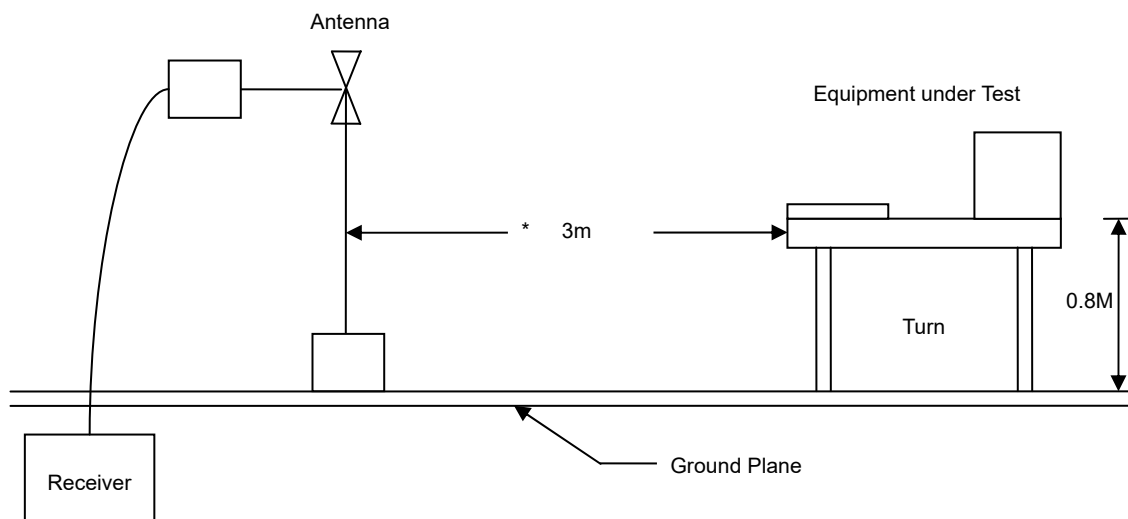


### 6.3 Typical Test Setup

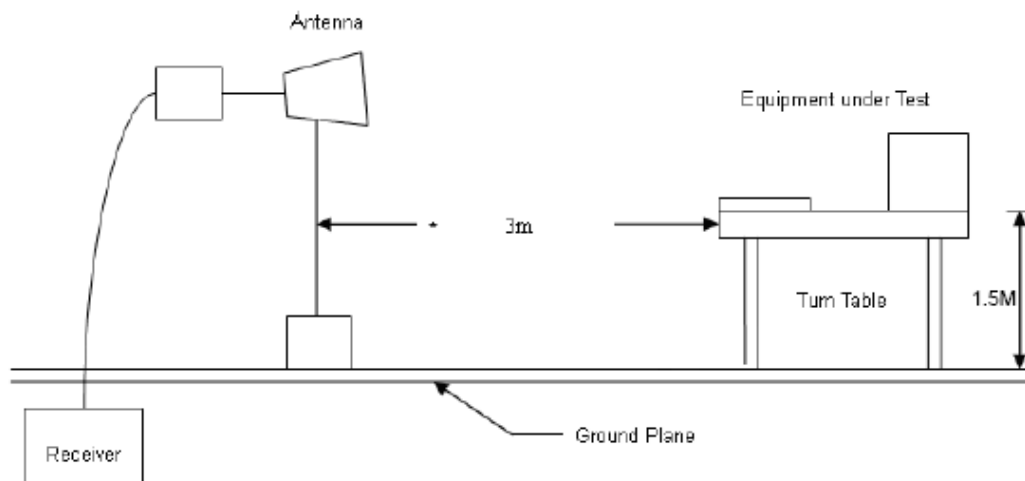
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





## 4.5.2 Test Result of Spurious emission

Test Mode :	Normal	Frequency Range:	9K-30MHz
Temp :	23°C	Humidity :	52%
Measured Distance	3m	Test Result:	Pass

Frequency (MHz)	Ant. Polarization H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)
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Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported

## 6.4 Test Result and Data (30MHz ~ 1GHz)

Power :	DC 1.5V	Temperature :	24 °C
Test Mode :	TX Mode	Humidity :	54 %
Test date :	Jan. 07, 2018	Atmospheric Pressure :	1010 hpa

Frequency (MHz)	AntPol. H/V	Correct Factor (dB)	Reading level (dBuV)	Measure Level (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)	Detector mode (PK/QP)
207.5099	H	-9.50	37.40	27.90	43.50	-15.60	peak
277.3500	H	-8.71	38.60	29.89	46.00	-16.11	peak
345.2500	H	-4.28	31.06	26.78	46.00	-19.22	peak
542.1599	H	-2.81	41.50	38.69	46.00	-7.31	QP
690.5700	H	-1.22	33.65	32.43	46.00	-13.57	peak
966.0499	H	3.13	34.42	37.55	54.00	-16.45	peak
33.8800	V	-5.41	32.28	26.87	40.00	-13.13	peak
207.5100	V	-9.50	35.48	25.98	43.50	-17.52	peak
276.3800	V	-8.82	38.91	30.09	46.00	-15.91	peak
542.1599	V	-2.81	42.60	39.79	46.00	-6.21	QP
622.6700	V	-1.59	31.56	29.97	46.00	-16.03	peak
693.4800	V	-1.20	40.31	39.11	46.00	-6.89	peak

Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor

**6.5 Test Result and Data (1GHz ~ 25GHz)**

Power	: DC 1.5V	Temperature	: 24 °C
Test Mode	TX-2408MHz	Humidity	: 54 %
Test date	: Jan. 07, 2018	Atmospheric Pressure	: 1010 hpa

Frequency (MHz)	AntPol. H/V	Correct Factor (dB)	Reading level (dBuV)	Measure Level (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)	Detector mode (PK/QP)
1935.000	H	0.90	37.05	37.95	74.00	-36.05	peak
3465.000	H	9.22	33.01	42.23	74.00	-31.77	peak
4343.333	H	12.86	30.67	43.53	74.00	-30.47	peak
5108.333	H	14.69	31.61	46.30	74.00	-27.70	peak
5760.000	H	15.66	32.64	48.30	74.00	-25.70	peak
6185.000	H	16.33	31.69	48.02	74.00	-25.98	peak
2048.333	V	1.48	36.68	38.16	74.00	-35.84	peak
3436.667	V	9.07	33.59	42.66	74.00	-31.34	peak
4825.000	V	14.27	31.72	45.99	74.00	-28.01	peak
5703.333	V	15.52	32.07	47.59	74.00	-26.41	peak
6666.667	V	17.00	30.60	47.60	74.00	-26.40	peak
7148.333	V	18.66	31.06	49.72	74.00	-24.28	peak

Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 1.5V	Temperature	: 24 °C
Test Mode	: TX-2440MHz	Humidity	: 54 %
Test date	: Jan. 07, 2018	Atmospheric Pressure	: 1010 hpa

Frequency (MHz)	AntPol. H/V	Correct Factor (dB)	Reading level (dBuV)	Measure Level (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)	Detector mode (PK/QP)
1991.667	H	1.22	37.25	38.47	74.00	-35.53	peak
3521.667	H	9.47	32.77	42.24	74.00	-31.76	peak
4881.667	H	14.38	36.97	51.35	74.00	-22.65	peak
5646.667	H	15.38	32.89	48.27	74.00	-25.73	peak
6723.333	H	17.18	31.02	48.20	74.00	-25.80	peak
7715.000	H	20.13	31.05	51.18	74.00	-22.82	peak
1850.000	V	0.41	36.69	37.10	74.00	-36.90	peak
3493.333	V	9.36	32.91	42.27	74.00	-31.73	peak
4286.667	V	12.57	30.35	42.92	74.00	-31.08	peak
4881.667	V	14.38	33.44	47.82	74.00	-26.18	peak
5646.667	V	15.38	32.39	47.77	74.00	-26.23	peak
6723.333	V	17.18	31.51	48.69	74.00	-25.31	peak

Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor





Power	: DC 1.5V	Temperature	: 24 °C
Test Mode	: TX-2474MHz	Humidity	: 54 %
Test date	: Jan. 07, 2018	Atmospheric Pressure	: 1010 hpa

Frequency (MHz)	AntPol. H/V	Correct Factor (dB)	Reading level (dBuV)	Measure Level (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)	Detector mode (PK/QP)
1736.667	H	-0.25	37.08	36.83	74.00	-37.17	peak
3550.000	H	9.57	33.00	42.57	74.00	-31.43	peak
4258.333	H	12.43	31.13	43.56	74.00	-30.44	peak
4938.333	H	14.48	35.37	49.85	74.00	-24.15	peak
6553.333	H	16.63	31.43	48.06	74.00	-25.94	peak
7431.667	H	19.76	32.18	51.94	74.00	-22.06	peak
1765.000	V	-0.08	36.67	36.59	74.00	-37.41	peak
3521.667	V	9.47	33.70	43.17	74.00	-30.83	peak
4938.333	V	14.48	33.58	48.06	74.00	-25.94	peak
5675.000	V	15.45	32.52	47.97	74.00	-26.03	peak
6666.667	V	17.00	31.36	48.36	74.00	-25.64	peak
7261.667	V	19.10	31.13	50.23	74.00	-23.77	peak

Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



## 7. 20dB Bandwidth Measurement Data

### 7.1 Test Limit

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.

### 7.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 30 KHz and VBW to 100KHz.
- c. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

### 7.3 Test Setup Layout



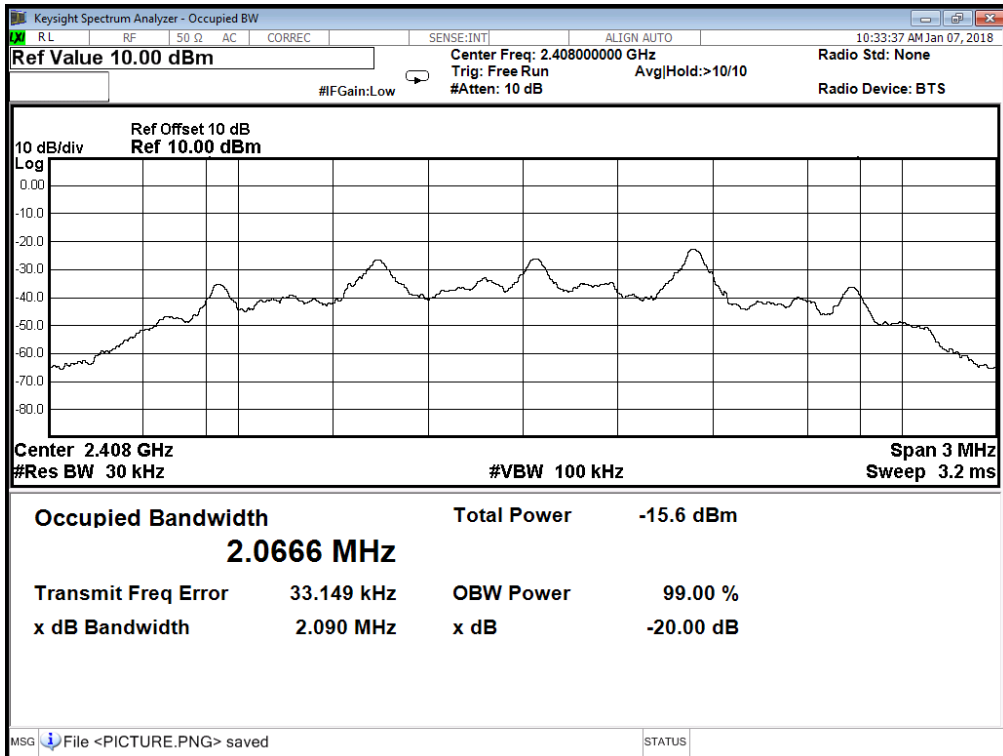
### 7.4 Test Result and Data

Power	: DC 1.5V	Temperature	: 24 °C
Test Mode	: TX-Mode	Humidity	: 54 %
Test date	: Jan. 07, 2018	Atmospheric Pressure	: 1010 hpa

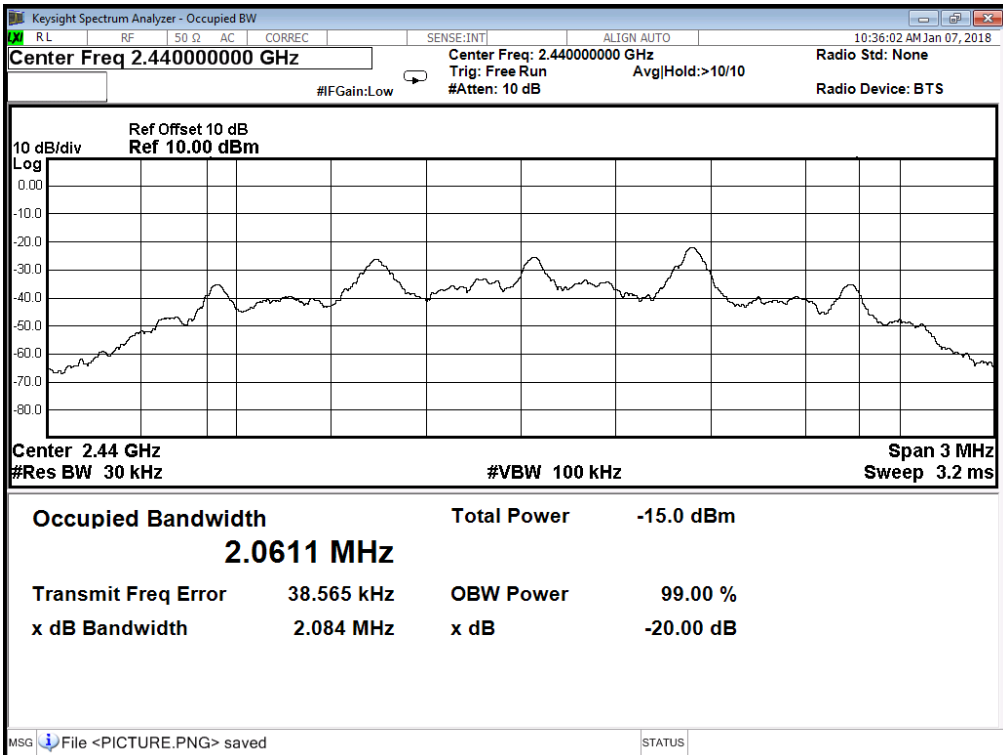
Channel	Frequency (MHz)	20dB Bandwidth (KHz)
Low	2408	2090.00
Mid	2440	2084.00
High	2474	2088.00



Channel: Low

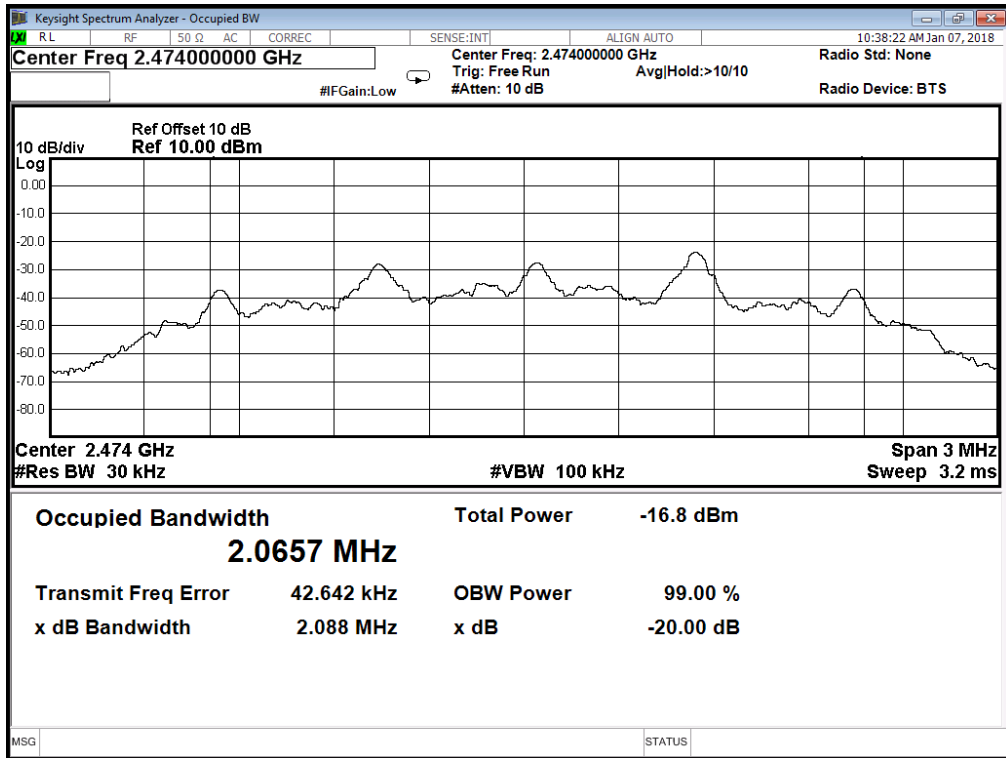


Channel: Mid





Channel: High





## 8. Band Edges Measurement

### 8.1 Test Limit

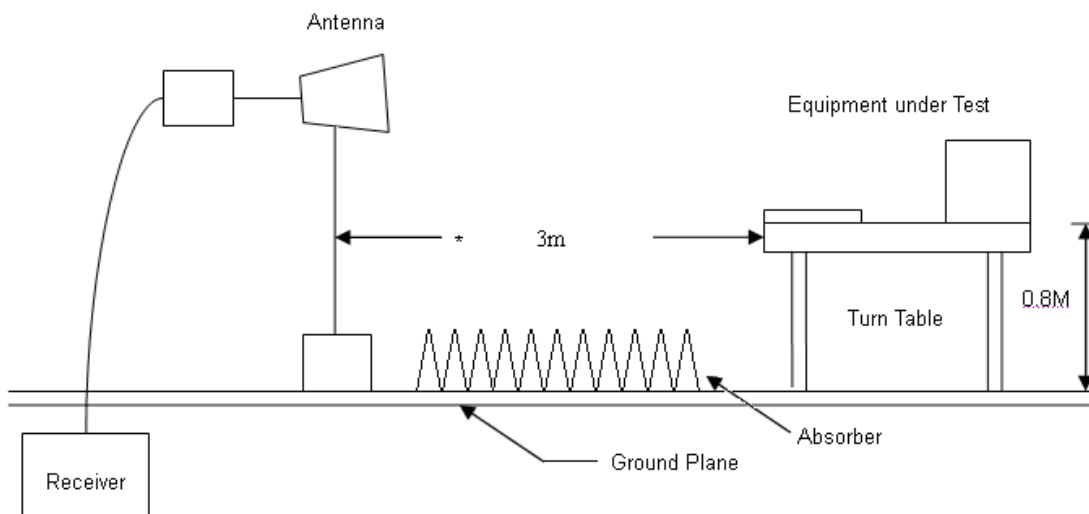
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

### 8.2 Test Procedure

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- The band edges was measured and recorded.

### 8.3 Test Setup Layout

Above 1GHz Test Setup





#### 8.4 Restrict band emission Measurement Data

Power	: DC 1.5V	Temperature	: 24 °C
Test Mode	: TX-2408MHz	Humidity	: 54 %
Test date	: Jan. 07, 2018	Atmospheric Pressure	: 1010 hpa

##### VERTICAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
1	2390.000	2.95	35.38	38.33	74.00	-35.67	peak
2	2390.000	2.95	21.34	24.29	54.00	-29.71	AVG
3	2400.000	2.99	34.96	37.95	74.00	-36.05	peak
4	2400.000	2.99	20.61	23.60	54.00	-30.40	AVG
5	2408.500	3.03	58.16	61.19	114.00	-52.81	peak
6	2408.500	3.03	54.97	58.00	94.00	-36.00	AVG

##### HORIZONTAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
1	2390.000	2.95	35.40	38.35	74.00	-35.65	peak
2	2390.000	2.95	21.26	24.21	54.00	-29.79	AVG
3	2395.250	2.97	43.20	46.17	74.00	-27.83	peak
4	2395.250	2.97	23.54	26.51	54.00	-27.49	AVG
5	2400.000	2.99	37.01	40.00	74.00	-34.00	peak
6	2400.000	2.99	22.01	25.00	54.00	-29.00	AVG
7	2407.500	3.02	72.33	75.35	114.00	-38.65	peak
8	2407.500	3.02	70.08	73.10	94.00	-20.9	AVG



Power	: DC 1.5V	Temperature	: 24 °C
Test Mode	: TX-2474MHz	Humidity	: 54 %
Test date	: Jan. 07, 2018	Atmospheric Pressure	: 1010 hpa

**VERTICAL**

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
1	2474.500	3.31	61.33	64.64	114.00	-49.36	PEAK
2	2474.500	3.31	56.84	60.15	94.00	-33.85	AVG
3	2483.500	3.35	34.09	37.44	74.00	-36.56	PEAK
4	2483.500	3.35	21.16	24.51	54.00	-29.49	AVG

**HORIZONTAL**

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
1	2474.500	3.31	71.47	74.78	114.00	-39.22	PEAK
2	2474.500	3.31	69.14	72.45	94.00	-21.55	AVG
3	2483.500	3.35	34.81	38.16	74.00	-35.84	PEAK
4	2483.500	3.35	21.86	25.21	54.00	-28.79	AVG



### 9. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

\*\* : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

#### 9.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.