



Shenzhen GTI Technology Co., Ltd.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel : +86-755-27521059

Fax: +86-755-27521011

TEST REPORT

Product Name.....: MICROWAVE OCCUPANCY SENSOR

Trademark.....: 

Model/Type reference: PSC-ID-M-FM-600

Listed Model(s).....: PSC-ID-M-FM-600-XXX/(-X)

FCC ID: ZZOPSC-ID-M-FM600

Test Standards: **FCC Part 15.249:Operation within the bands 902-928 MHz,2400-2483.5MHZ,5725-5875MHZ, and 24.0-24.25 GHz**

Report No: **GTI20181660F**

Applicant.....: MW McWong International Inc.

Address of applicant: 1921 Arena BLVD., Sacramento, CA 95834

Date of Receipt.....: Aug. 01, 2018

Date of Test Date.....: Aug. 05, 2018 to Aug. 15, 2018

Data of issue.....: Aug. 27, 2018

Test result	Pass *
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* In the configuration tested, the EUT complied with the standards specified above

Shenzhen General Testing & Inspection Technology Co., Ltd.

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Fax.: (86)755-27521011

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GENERAL DESCRIPTION OF EUT	
Equipment:	MICROWAVE OCCUPANCY SENSOR
Model Name:	PSC-ID-M-FM-600
Adding Model(s):	PSC-ID-M-FM-600-XXX/(-X)
Model difference:	All models followed by "xxx" for alphanumeric characters ("XXX" for manufacturing and / or marketing purposes).
Manufacturer:	MW McWong International Inc.
Manufacturer Address:	1921 Arena BLVD., Sacramento, CA 95834
Factory:	MW McWong International Inc.
Address:	1921 Arena BLVD., Sacramento, CA 95834
Power Rating:	120V~277VAC 50/60 Hz

Compiled By: Torny Fang
(Torny Fang)

Reviewed By: Cary Luo
(Cary Luo)

Approved By: Walter Chen
(Walter Chen)

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Table of Contents

Page

1. SUMMARY	4
1.1. TEST STANDARDS	4
1.2. TEST DESCRIPTION	4
1.3. TEST FACILITY	5
1.4. MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
2.1. ENVIRONMENTAL CONDITIONS	6
2.2. GENERAL DESCRIPTION OF EUT	6
2.3. DESCRIPTION OF TEST MODES	7
2.4. MEASUREMENT INSTRUMENTS LIST	8
4. TEST CONDITIONS AND RESULTS	9
4.1. CONDUCTED EMISSION MEASUREMENT	9
4.2. RADIATED EMISSION	13
4.3. 20dB BANDWIDTH	18
4.4. BAND EDGE TEST TEST	20
4.5. ANTENNA REQUIREMENT	22
5. EUT TEST PHOTO	24
6. PHOTOGRAPHS OF EUT CONSTRUCTIONAL	25

1. SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.249](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5MHz, 5725-5875MHz, and 24.0-24.25 GHz

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices

1.2. Test Description

FCC PART 15 15.249		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.249 (a) (d) /15.209	Radiated Emissions	PASS
FCC Part 15.249 (a)	Spurious RF Conducted Emission	N/A
FCC Part 15.215(c)	20dB Occupied Band Width	PASS
FCC Part 15.249 (d)	Band edge Test	PASS
FCC Part 15.203	Antenna requirement	PASS

1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen General Testing & Inspection Technology Co., Ltd.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 9783A

The 3m alternate test site of Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC-Registration No.: 951311

Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017

1.4. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements and is documented in the Shenzhen General Testing & Inspection Technology Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for General Testing & Inspection laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9KHz-40 GHz	2.20 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emission 1~18GHz	5.16 dB	(1)
Radiated Emission 18-40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95%

confidence level using a coverage factor of $k=1.96$.

2. GENERAL INFORMATION

2.1.Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~75 %
Air Pressure:	950~1050mba

2.2.General Description of EUT

Product Name:	MICROWAVE OCCUPANCY SENSOR
Model/Type reference:	PSC-ID-M-FM-600
Power supply:	120V-277V AC 50/60 Hz
Hardware version:	V1.0
Software version:	V1.0
Operation frequency Range:	5758MHz~5835MHz
Channel separation:	1MHz
Antenna type:	Square antenna
Antenna gain:	4.50dBi

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.3. Description of Test Modes

Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) mode for testing.

Channel	Frequency (MHz)
01	5758
40	5797
78	5835

2.4.Measurement Instruments List

Maximum Conducted Output Power					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487B	110553	Jan. 04,2019
2	Power Sensor	Anritsu	MA2411B	100345	Jan. 04,2019
3	Spectrum Analyzer	R&S	FSU26	100105	Jan. 04,2019

1.

Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF Emission / Spurious RF Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSU26	100105	Jan. 04,2019

2.

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrate until
1	LISN	R&S	ENV216	101112	Jan. 04,2019
2	LISN	R&S	ENV216	101113	Jan. 04,2019
3	EMI Test Receiver	R&S	ESCI	100920	Jan. 04,2019
4	Cable	Schwarzbeck	AK9515E	33156	Jan. 04,2019

3.

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100658	Jan. 04,2019
2	High pass filter	micro-tranics	HPM50111	34202	Jan. 04,2019
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Jan. 04,2019
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Jan. 04,2019
5	Loop Antenna	LAPLAC	RF300	9138	Jan. 04,2019
6	Spectrum Analyzer	Rohde & Schwarz	FSU	100105	Jan. 04,2019
7	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Jan. 04,2019
8	Pre-Amplifier	HP	8447D	1937A03050	Jan. 04,2019
9	Pre-Amplifier	EMCI	EMC05183 5	980075	Jan. 04,2019
10	Antenna Mast	UC	UC3000	N/A	N/A
11	Turn Table	UC	UC3000	N/A	N/A
12	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Jan. 04,2019
13	Cable Above 1GHz	Hubersuhner	SUCOFLEX1 02	DA1580	Jan. 04,2019

Note: 1. The Cal.Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.

4. TEST CONDITIONS AND RESULTS

4.1. CONDUCTED EMISSION MEASUREMENT

Limit

POWER LINE CONDUCTED EMISSION

(Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quas -peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

Test Procedure

1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m. Repeat above procedures until all frequency measurements have been completed.
4. LISN at least 80 cm from nearest part of EUT chassis.
5. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Test Configuration

Shenzhen General Testing & Inspection Technology Co., Ltd.

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Tel.: (86)755-27521059

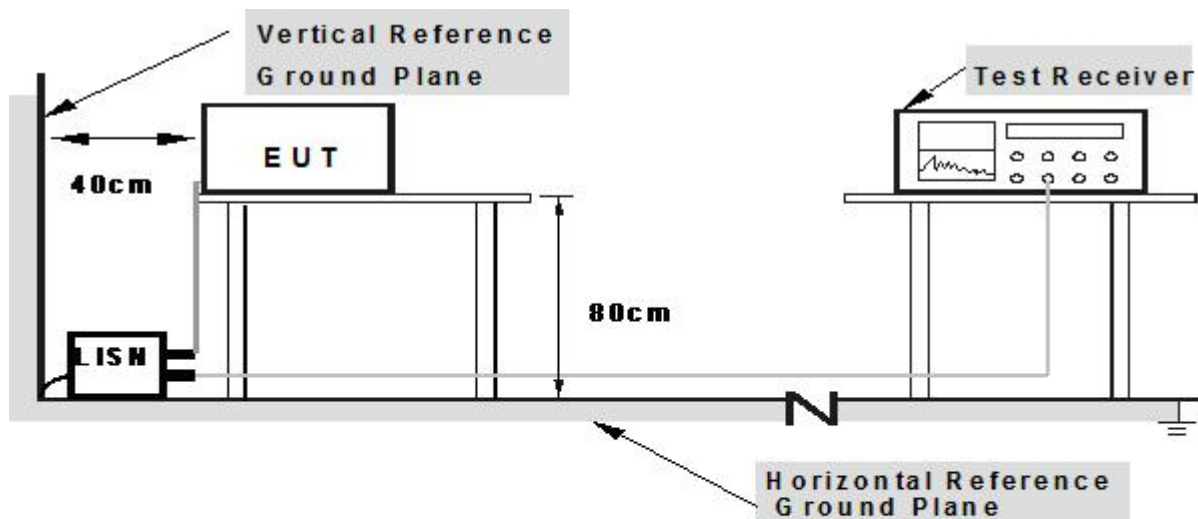
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For the actual test configuration, please refer to the related Item –EUT Test Photos.

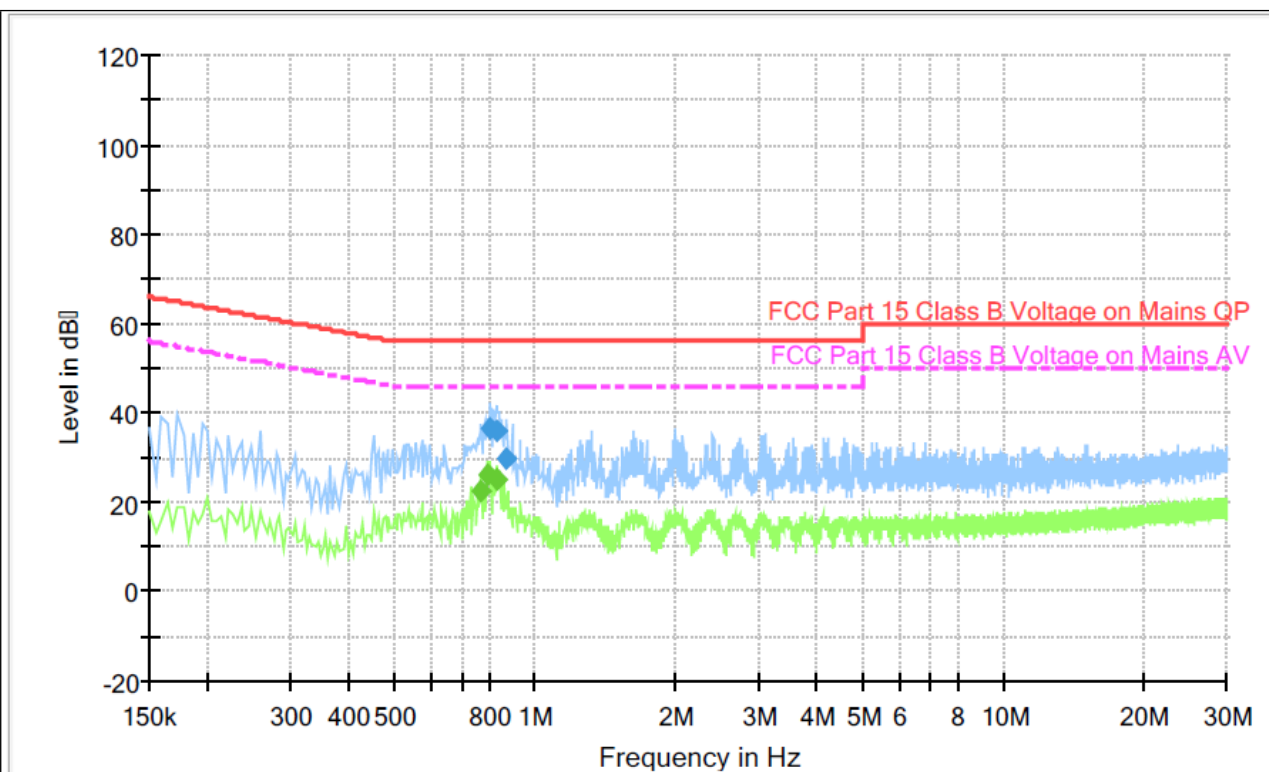


Note: 1.Support units were connected to second LISH.

2.Both of LISHs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

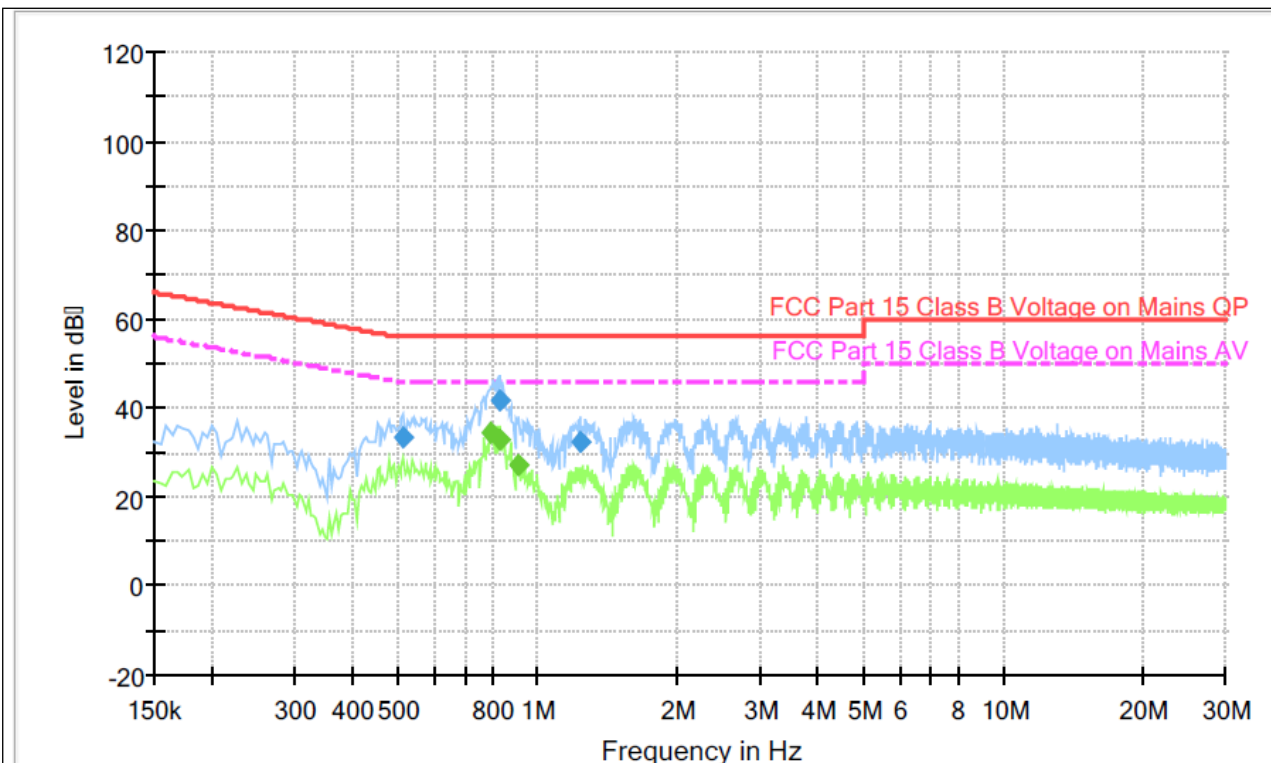
TEST RESULTS

Temperature:	23.5 °C	Relative Humidity:	60%
Pressure:	101 Kpa	Test Date :	2018-08-27
Test Mode :	TX	Phase :	L
Test Voltage :	AC 120V/60Hz		



Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.802500	36.3	1000.000	9.000	Off	L1	9.9	19.7	56.0
0.825000	35.9	1000.000	9.000	Off	L1	9.9	20.1	56.0
0.870000	29.7	1000.000	9.000	Off	L1	9.9	26.3	56.0
Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.766500	22.5	1000.000	9.000	Off	L1	9.9	23.5	46.0
0.789000	26.0	1000.000	9.000	Off	L1	9.9	20.0	46.0
0.825000	25.2	1000.000	9.000	Off	L1	9.9	20.8	46.0

Temperature:	23.5 °C	Relative Humidity:	60%
Pressure:	101 Kpa	Test Date :	2018-08-27
Test Mode:	TX	Phase :	N
Test Voltage :	AC 120V/60Hz		



Frequency (MHz)	QuasiPeak (dB)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB)
0.514500	33.5	1000.000	9.000	Off	N	10.1	22.5	56.0
0.825000	41.8	1000.000	9.000	Off	N	10.0	14.2	56.0
1.234500	32.2	1000.000	9.000	Off	N	10.0	23.8	56.0
Frequency (MHz)	Average (dB)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB)
0.789000	34.2	1000.000	9.000	Off	N	10.0	11.8	46.0
0.825000	33.1	1000.000	9.000	Off	N	10.0	12.9	46.0
0.910500	27.1	1000.000	9.000	Off	N	10.0	18.9	46.0

4.2. Radiated Emission

Limit

For intentional device, according to § 15.209(a), § 15.249(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table.

The frequency spectrum above 1 GHz for Transmitter was investigated. All emission not reported are much lower than the prescribed limits. Set the RBW=1MHz, VBW=3MHz for Peak Detector while the RBW=1MHz, VBW=10Hz for Average Detector, Readings are both peak and average values. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBuV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

Test Procedure

- The EUT was placed on a turn table which is 0.8m(below 1GHz) or 1.5m(above 1GHz) above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

For example

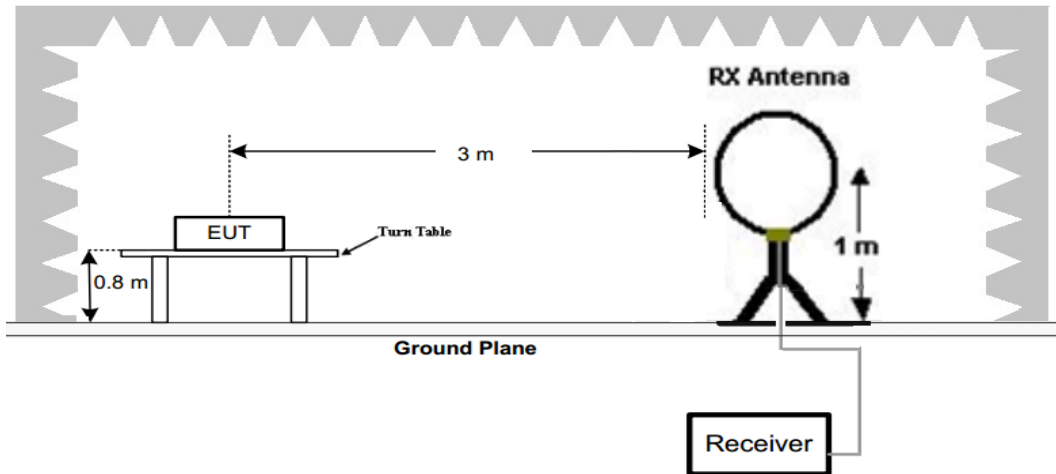
Frequency (MHz)	FS (dBμV/m)	RA (dBμV/m)	AF (dB)	CL (dB)	AG (dB)	Transd (dB)
150.00	40	58.1	12.2	1.6	31.90	-18.1

$$\text{Transd} = AF + CL - AG$$

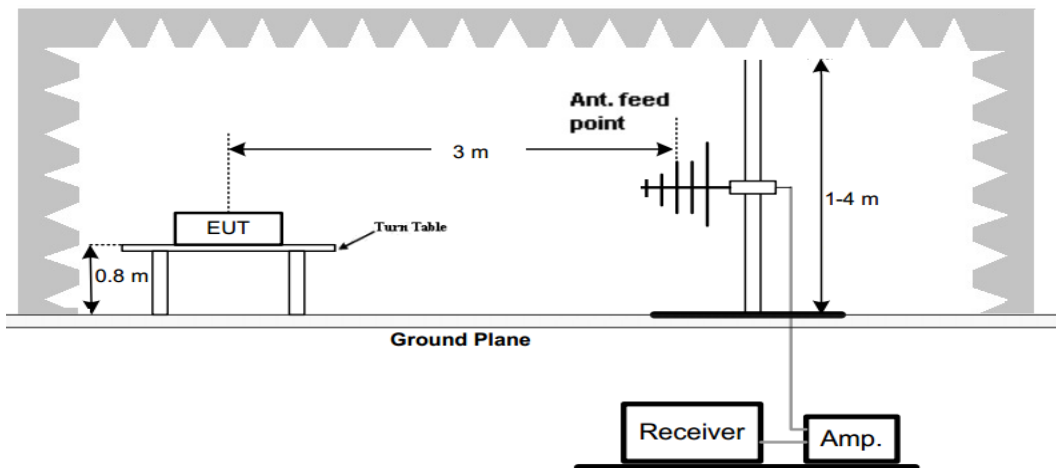
Test Configuration

For the actual test configuration, please refer to the related Item –EUT Test Photos.

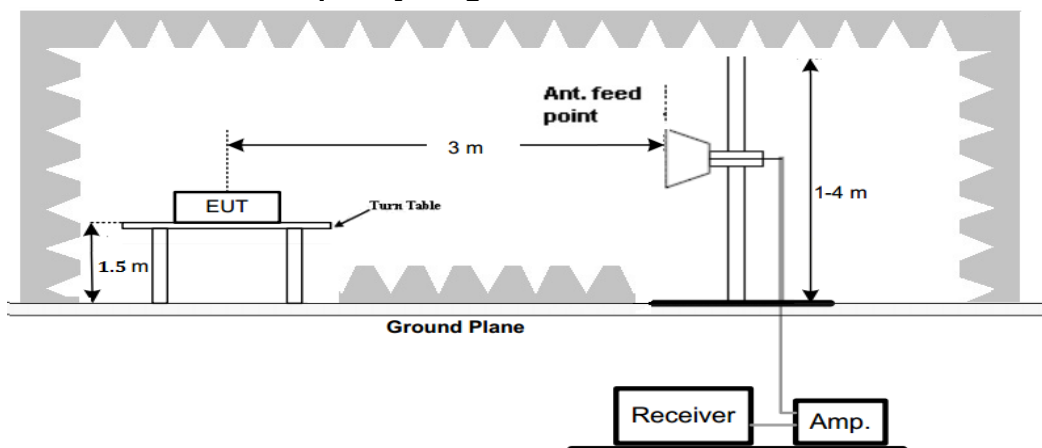
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



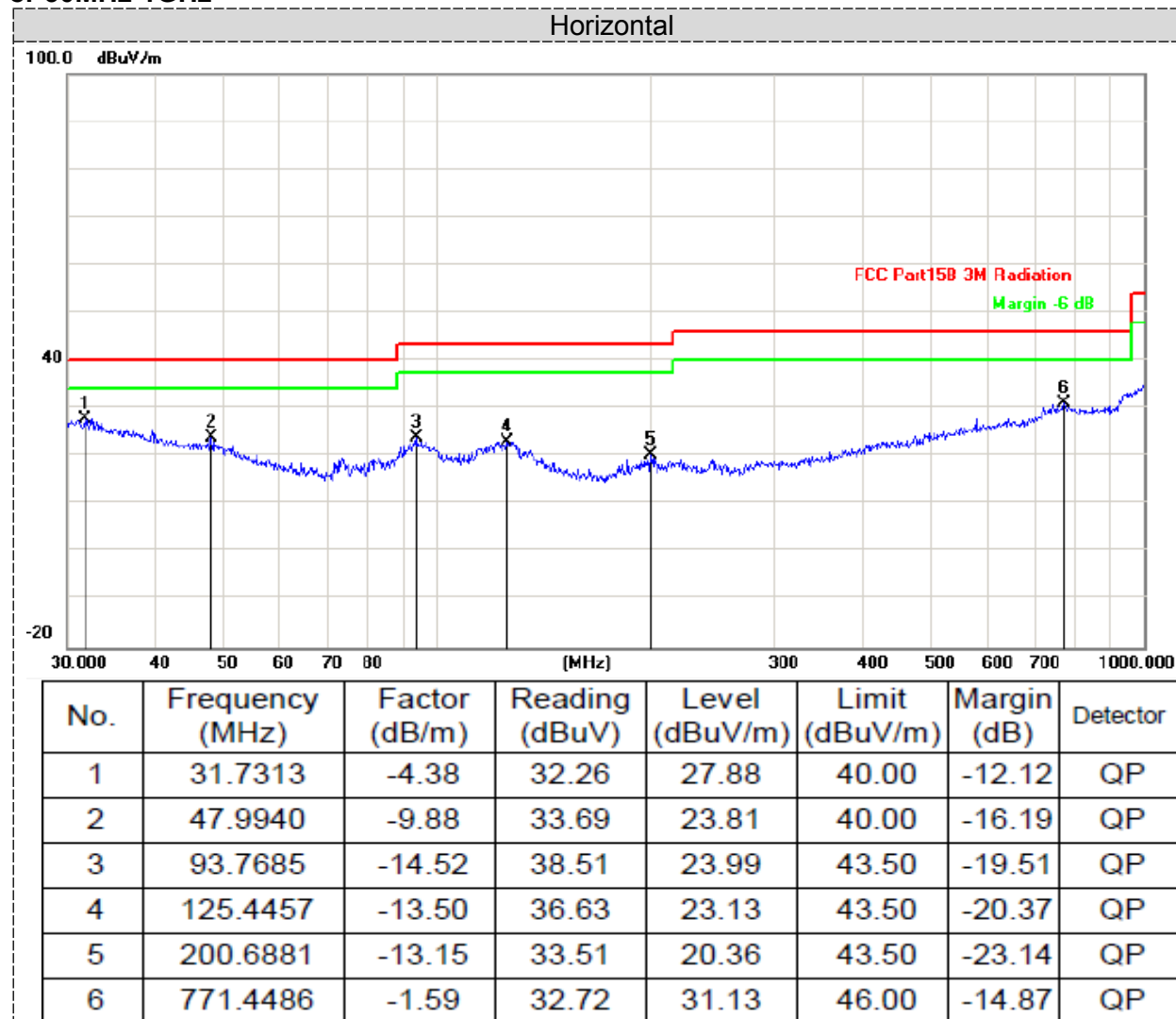
Test Results

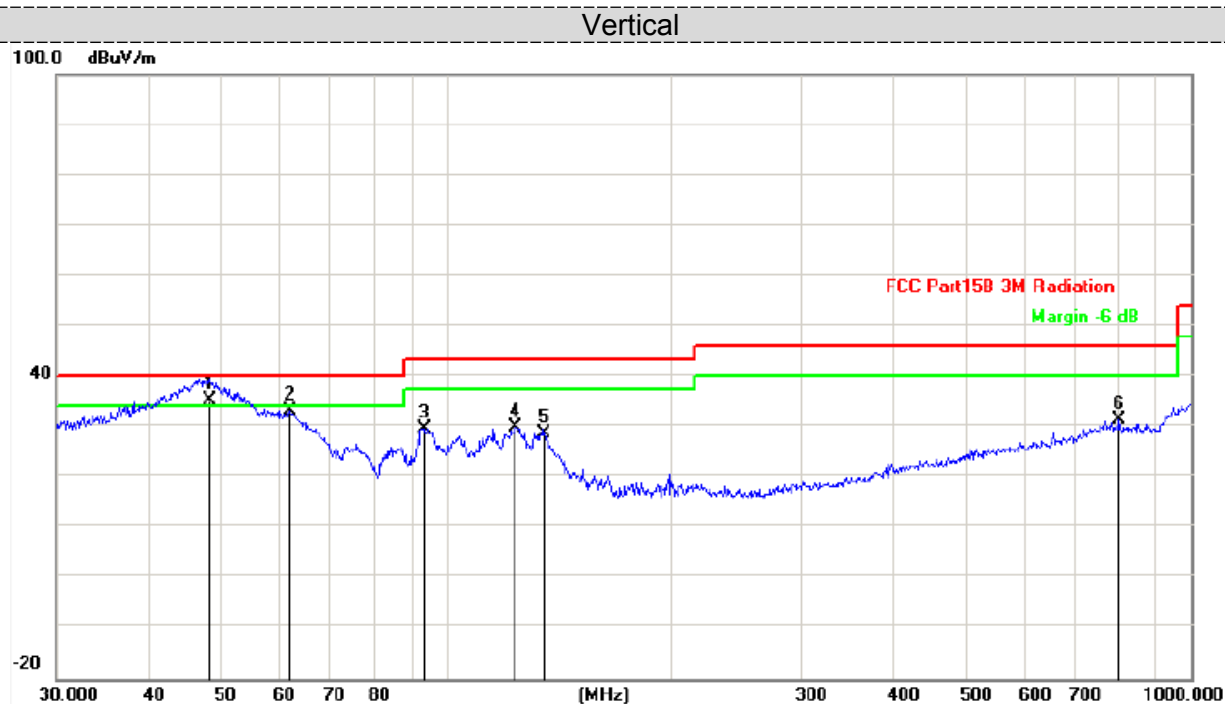
Remark:

For 9 KHz-30MHz

The test results of 9kHz-30MHz is attenuated more than 20dB below the permissible limits, so the results don't record in the report.

For 30MHz-1GHz





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	48.1626	-9.94	45.44	35.50	40.00	-4.50	QP
2	61.7781	-15.02	48.26	33.24	40.00	-6.76	QP
3	93.4402	-14.54	44.17	29.63	43.50	-13.87	QP
4	124.1330	-13.47	43.49	30.02	43.50	-13.48	QP
5	135.5062	-13.70	42.31	28.61	43.50	-14.89	QP
6	801.7863	-2.10	33.62	31.52	46.00	-14.48	QP

Polar	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBUV)	(dB)	(dB)	(dB/m)	(dBUV/m)	(dBUV/m)	(dB)	Type
H	5758	87.75	41.5	6.23	32.1	84.58	114	-29.42	PK
H	5758	77.32	41.5	6.23	32.1	74.15	94	-19.85	AV
V	5758	87.55	41.5	6.23	32.1	84.38	114	-29.62	PK
V	5758	76.33	41.5	6.23	32.1	73.16	94	-20.84	AV

Polar	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBUV)	(dB)	(dB)	(dB/m)	(dBUV/m)	(dBUV/m)	(dB)	Type
H	5797	86.54	41.5	6.23	32.1	83.37	114	-30.63	PK
H	5797	76.02	41.5	6.23	32.1	72.85	94	-21.15	AV
V	5797	87.87	41.5	6.23	32.1	84.70	114	-29.30	PK
V	5797	78.06	41.5	6.23	32.1	74.89	94	-19.11	AV

Polar	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Type
H	5835	88.15	41.5	6.23	32.1	84.98	114	-29.02	PK
H	5835	76.55	41.5	6.23	32.1	73.38	94	-20.62	AV
V	5835	87.41	41.5	6.23	32.1	84.24	114	-29.76	PK
V	5835	78.96	41.5	6.23	32.1	75.79	94	-18.21	AV

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.

Above 1GHz emission please refer to C180824Z01-RP1

4.3.20dB Bandwidth

Limit

unwanted emissions outside of the frequency bands shown in these alternative provisions must be attenuated to the emission limits shown in §15.209.

Test Procedure

1. The transmitter output was connected to the spectrum analyzer.
2. Set SA as follow:
 - a) RBW: 100 kHz.
 - b) VBW: $\geq 3 \times \text{RBW}$.
 - c) Detector: Peak.
 - d) Trace mode: max hold.
 - e) Sweep: auto couple.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

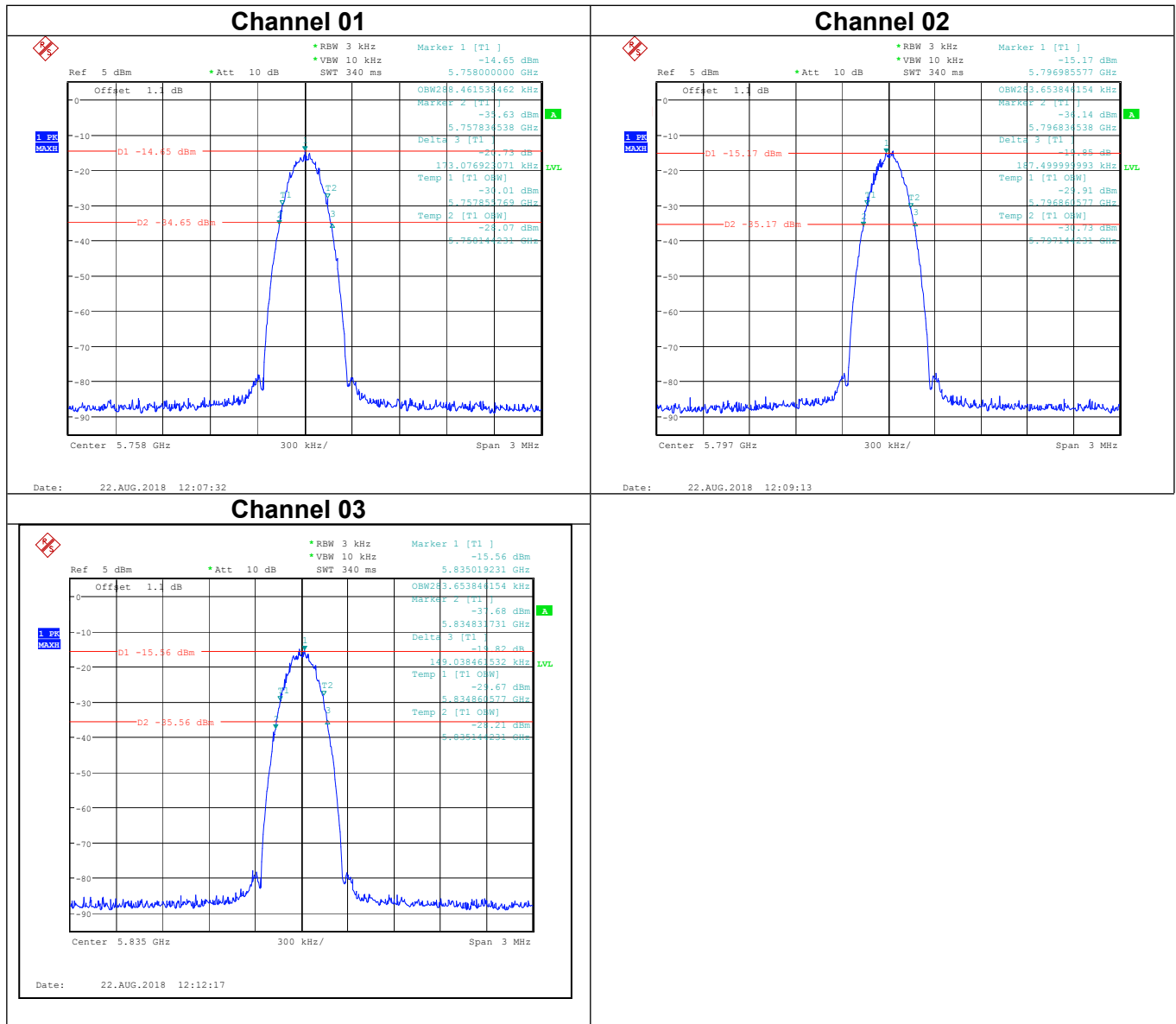
Test Configuration



Test Results

Channel	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	Result
01	0.1730	0.2884	Pass
40	0.1875	0.2836	Pass
79	0.1490	0.2836	Pass

Test plot as follows:



4.4. Band edge Test Test

Limit

For intentional device, according to § 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 Procedure

The frequency spectrum above 1 GHz for Transmitter was investigated. All emission not reported are much lower than the prescribed limits. Set the RBW=1MHz, VBW=3MHz for Peak Detector while the RBW=1MHz, VBW=10Hz for Average Detector, Readings are both peak and average values. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

1. The EUT was placed on a turn table which is 0.8m(below 1GHz) or 1.5m(above 1GHz) above ground plane
2. The table was rotated 360 degrees to determine the position of the highest radiation.
3. The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
5. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
6. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
7. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
8. Test the EUT in the lowest channel, the highest channel
9. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
10. Repeat above procedures until all frequencies measured was complete.

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

For example

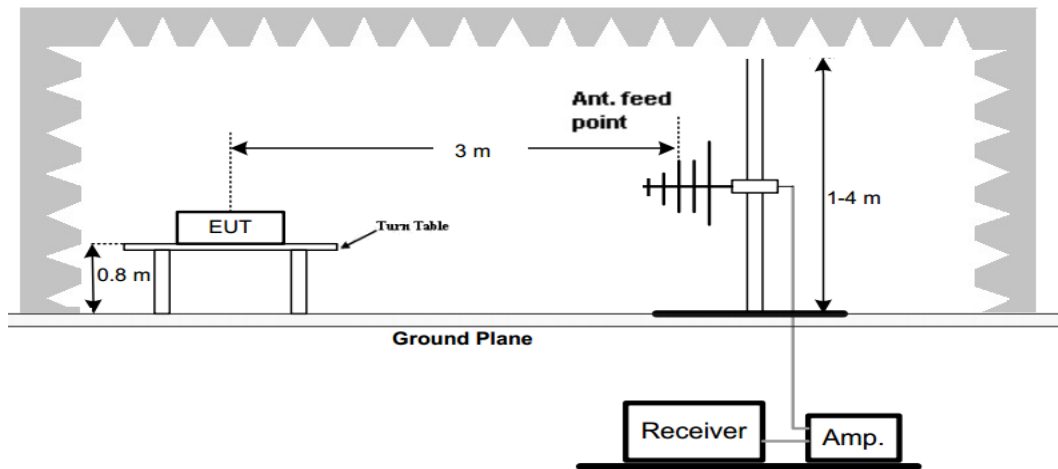
Frequency (MHz)	FS (dBμV/m)	RA (dBμV/m)	AF (dB)	CL (dB)	AG (dB)	Transd (dB)
150.00	40	58.1	12.2	1.6	31.90	-18.1

$$\text{Transd} = \text{AF} + \text{CL} - \text{AG}$$

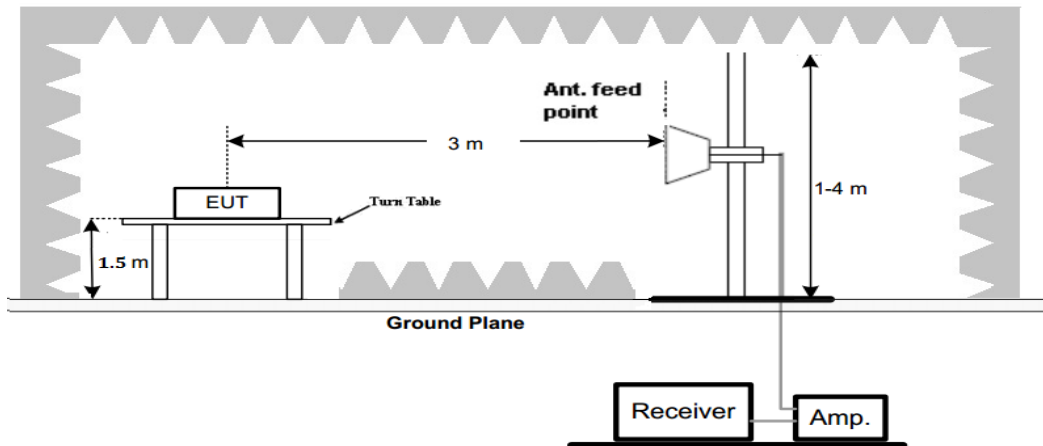
Test Configuration

For the actual test configuration, please refer to the related Item –EUT Test Photos.

Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



Test Results

Remark:

Polar	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Type
H	5725	43.51	41.5	6.23	32.2	40.44	74	-33.56	PK
H	5725	35.06	41.5	6.23	32.2	31.99	54	-22.01	AV
V	5725	43.13	41.5	6.23	32.2	40.06	74	-33.94	PK
V	5725	34.57	41.5	6.23	32.2	31.50	54	-22.50	AV

Polar	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Type
H	5875	44.84	41.5	6.23	32.2	41.77	74	-32.23	PK
H	5875	34.00	41.5	6.23	32.2	30.93	54	-23.07	AV
V	5875	45.39	41.5	6.23	32.2	42.32	74	-31.68	PK
V	5875	34.11	41.5	6.23	32.2	31.04	54	-22.96	AV

Shenzhen General Testing & Inspection Technology Co., Ltd.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax.: (86)755-27521011

Http://www.sz-ctc.org.cn

4.5. Antenna Requirement

Standard Applicable

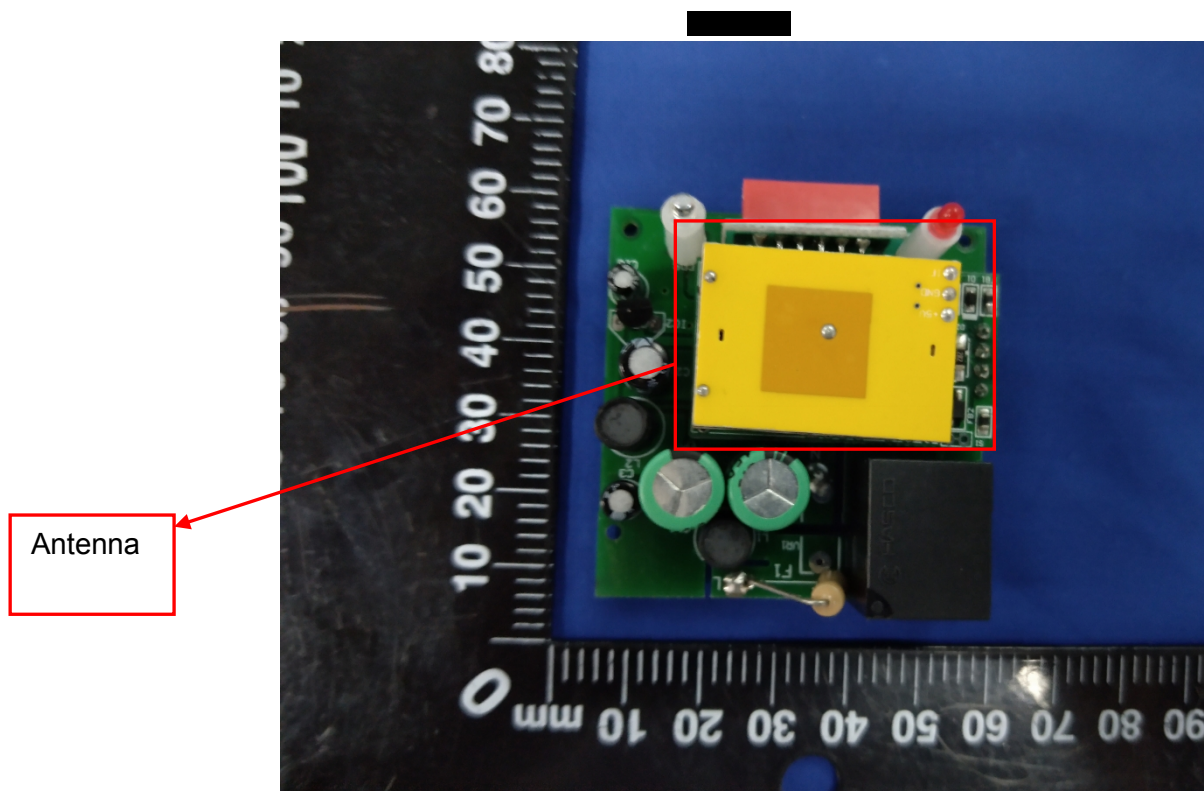
For intentional device, according to FCC 47 CFR Section 15.203:

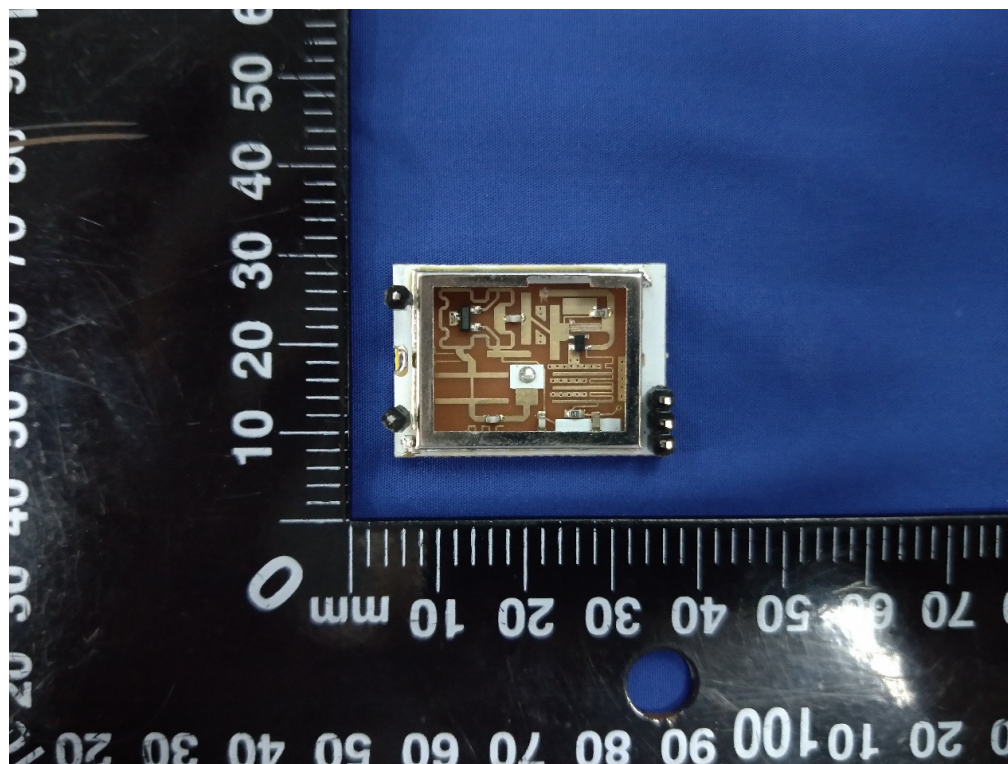
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

Result

The EUT's antenna used a Antenna, soldered on the PCB., The antenna's gain is 4.50 dBi. Complying with the standard requirement.

Test Result:





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5. EUT TEST PHOTO

Please reference to the annex: Test Photo

6. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Please reference to the annex: Extra EUT Photo and Internal EUT Photo

*****THE END*****