CTC Laboratories, Inc.

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TEST REPORT

Report No..... :	**CTC20210967E01**
FCC ID……..…:	**2ARVQ-RIOK9**
Applicant..... :	**AUTOSLIDE PTY LTD**
Address……..……..…:	3/413, VICTORIA STREET, WETHERILL PARK, NSW, AUSTRALIA
Manufacturer.....:	AUTOSLIDE PTY LTD
Address.....:	3/413, VICTORIA STREET, WETHERILL PARK, NSW, AUSTRALIA
Product Name ..... :	**AUTOSLIDE RFID Receiver iOpen/K9**
Trade Mark..... :	AUTOSLIDE
Model/Type reference ..... :	RFID Receiver iOpen/K9
Listed Model(s) ..... :	N/A
Standard .....:	**FCC CFR Title 47 Part 15 Subpart C**
Date of receipt of test sample……:	May 31, 2021
Date of testing……..:	May 31, 2021 to Jun. 08, 2021
Date of issue……....:	Jun. 08, 2021
Result……:	**PASS**

Compiled by: (Printed name + signature)	Jim Jiang	Jim Jiang
Supervised by: (Printed name + signature)	Miller Ma	Miller Ma
Approved by: (Printed name + signature)	Walter Chen	Walter Chen

Testing Laboratory Name..... :	CTC Laboratories, Inc.
Address..... :	2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15 Subpart C: Intentional Radiators
ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report Version

Revised No.	Date of issue	Description
01	Jun. 08, 2021	Original

1.3. Test Description

FCC Part 15 Subpart C			
Test Item	**Standard Section**	**Result**	**Test Engineer**
Conducted Emission	15.207	N/A	N/A
Radiated Emissions	15.209	Pass	Jim Jiang
Field Strength of the Fundamental	15.209	Pass	Jim Jiang
Occupied Bandwidth and 20dB Bandwidth	15.215	Pass	Jim Jiang
Antenna Requirement	15.203	Pass	Jim Jiang

Note: "N/A" Not applicable.
The measurement uncertainty is not included in the test result.

1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

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

Laboratory accreditation

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

CNAS-Lab Code: L5365
CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 4340.01
CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)
CTC Laboratories, Inc. 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, Designation Number CN1208)
CTC Laboratories, Inc. 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.

1.5. 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 TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the CTC Laboratories, Inc. 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.
Below is the best measurement capability for CTC Laboratories, Inc.

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth	---------	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. Environmental Conditions

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

Temperature:	20~25°C
Relative Humidity:	50~55%RH
Air Pressure:	101kPa

2. GENERAL INFORMATION

2.1. Client Information

Applicant:	AUTOSLIDE PTY LTD
Address:	3/413, VICTORIA STREET, WETHERILL PARK, NSW, AUSTRALIA
Manufacturer:	AUTOSLIDE PTY LTD
Address:	3/413, VICTORIA STREET, WETHERILL PARK, NSW, AUSTRALIA

2.2. General Description of EUT

Product Name:	AUTOSLIDE RFID Receiver iOpen/K9
Trade Mark:	AUTOSLIDE
Model/Type reference:	RFID Receiver iOpen/K9
Listed Model(s):	N/A
Model Difference:	N/A
Power supply:	12VDC 20mA
Hardware version:	V1.0
Software version:	V1.0
RF Parameter	
Modulation:	ASK/OOK
Operation frequency:	125kHz
Channel number:	1
Antenna type:	PCB Antenna
Antenna gain:	0dBi

2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
Rechargeable battery	LFP 12100	/	FirstPower
Cable Information			
Name	Shielded Type	Ferrite Core	Length
Power Cable	Unshielded	NO	1.5m

2.4. EUT Operation State

The EUT has been tested under typical operating condition. The Applicant provides software to control the EUT for staying in continuous transmitting mode for testing.

2.5. Measurement Instruments List

Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2022
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 25, 2021
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 25, 2021
5	Power Sensor	Agilent	U2021XA	MY5365004	Dec. 25, 2021
6	Power Sensor	Agilent	U2021XA	MY5365006	Dec. 25, 2021
7	Simultaneous Sampling DAQ	Agilent	U2531A	TW54493510	Dec. 25, 2021
8	Climate Chamber	TABAI	PR-4G	A8708055	Dec. 25, 2021
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021
10	Climate Chamber	ESPEC	MT3065	/	Dec. 25, 2021
11	300328 v2.2.2 test system	TONSCEND	v2.6	/	/
12	MXA Signal Analyzer	KEYSIGHT	N9020A	MY46471737	Dec. 25, 2021

Radiated Emission and Transmitter spurious emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 25, 2021
2	High pass filter	micro-tranics	HPM50111	142	Dec. 25, 2021
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 25, 2021
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec. 25, 2021
5	Loop Antenna	LAPLAC	RF300	9138	Dec. 25, 2021
6	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021
7	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Dec. 25, 2021
8	Pre-Amplifier	HP	8447D	1937A03050	Dec. 25, 2021
9	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 25, 2021
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	Dec. 25, 2021
13	Cable Above 1GHz	Hubersuhner	SUCOFLEX1	DA1580	Dec. 25, 2021

			02		
14	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 25, 2021
15	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	Dec. 25, 2021
16	RF Connection Cable	Chengdu E-Microwave	---	---	Dec. 25, 2021
17	High pass filter	Compliance Direction systems	BSU-6	34202	Dec. 25, 2021
18	Attenuator	Chengdu E-Microwave	EMCAXX-10 RNZ-3	---	Dec. 25, 2021
19	High and low temperature box	ESPEC	MT3065	12114019	Dec. 25, 2021

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101112	Dec. 25, 2021
2	LISN	R&S	ENV216	101113	Dec. 25, 2021
3	EMI Test Receiver	R&S	ESCI	100658	Dec. 25, 2021

Note:1. The Cal. Interval was one year.
2. The cable loss has calculated in test result which connection between each test instruments.

3. TEST ITEM AND RESULTS

3.1. Conducted Emission

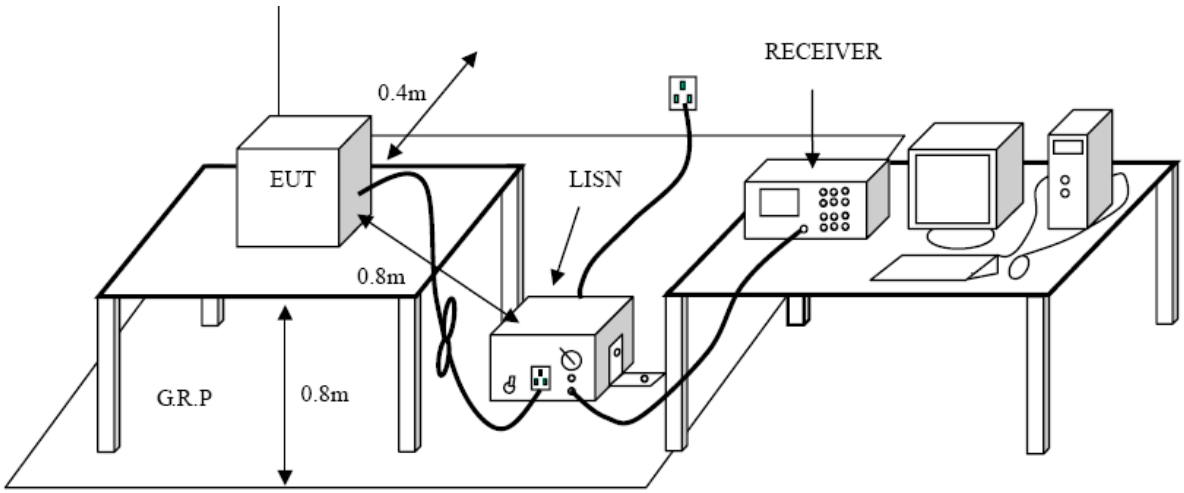
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207/ RSS-Gen 7.2:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Notes:
(1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequencies.
(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Configuration



Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment.
   The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

Test Mode

Please refer to the clause 2.4.

Test Result

Not applicable.

3.2. Radiated Emission

Limit

Radiated Emission Limits (9kHz~1000MHz)

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Radiated Emission Limit (Above 1000MHz)

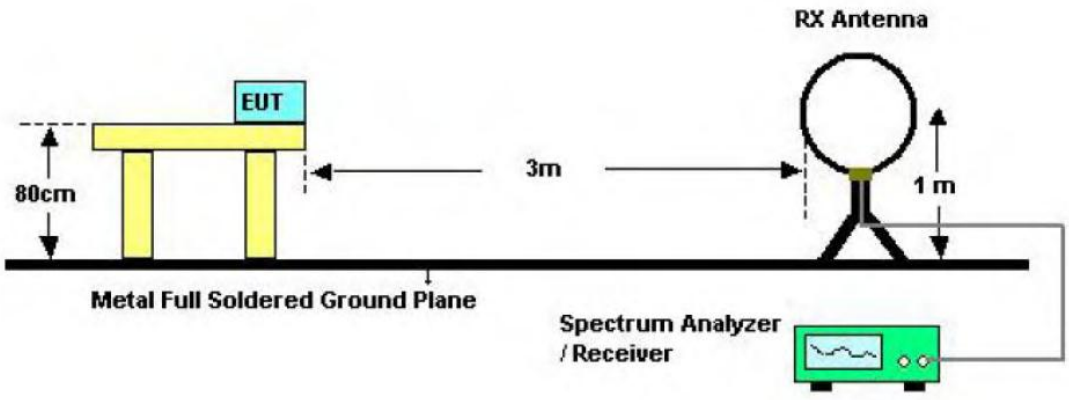
Frequency (MHz)	Distance Meters(at 3m)	
	Peak	Average
Above 1000	74	54

Note:

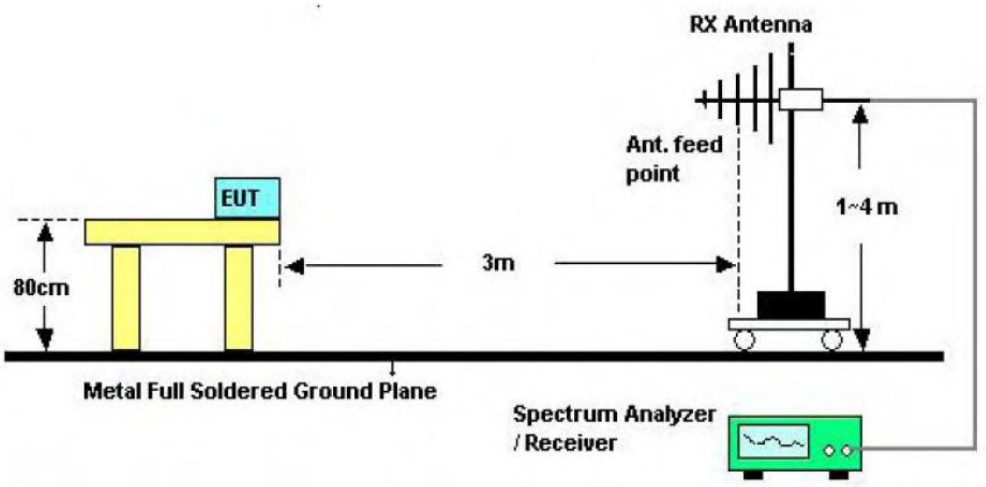
(1) The tighter limit applies at the band edges.

(2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

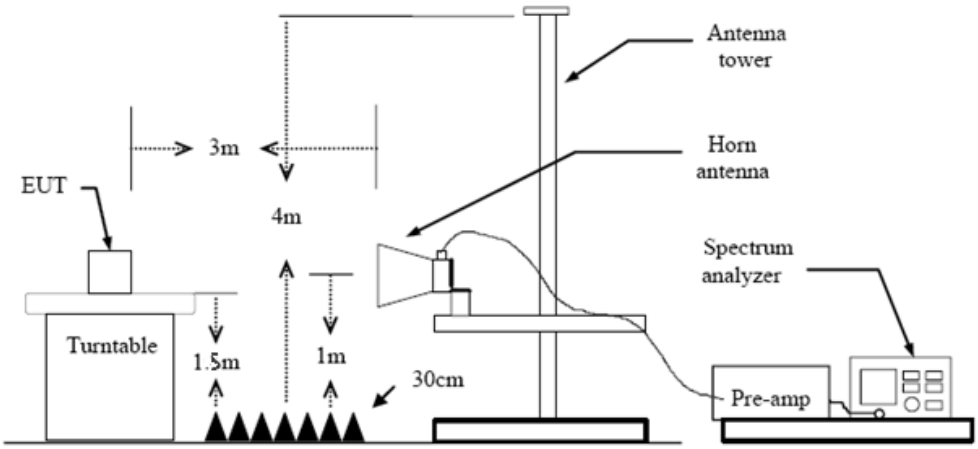
Test Configuration



Below 30MHz Test Setup



30-1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. 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 turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Below 1 GHz:
   RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
   If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
   (3) From 1 GHz to 10th harmonic:
   RBW=1MHz, VBW=3MHz Peak detector for Peak value.
   RBW=1MHz, VBW=3MHz RMS detector for Average value.

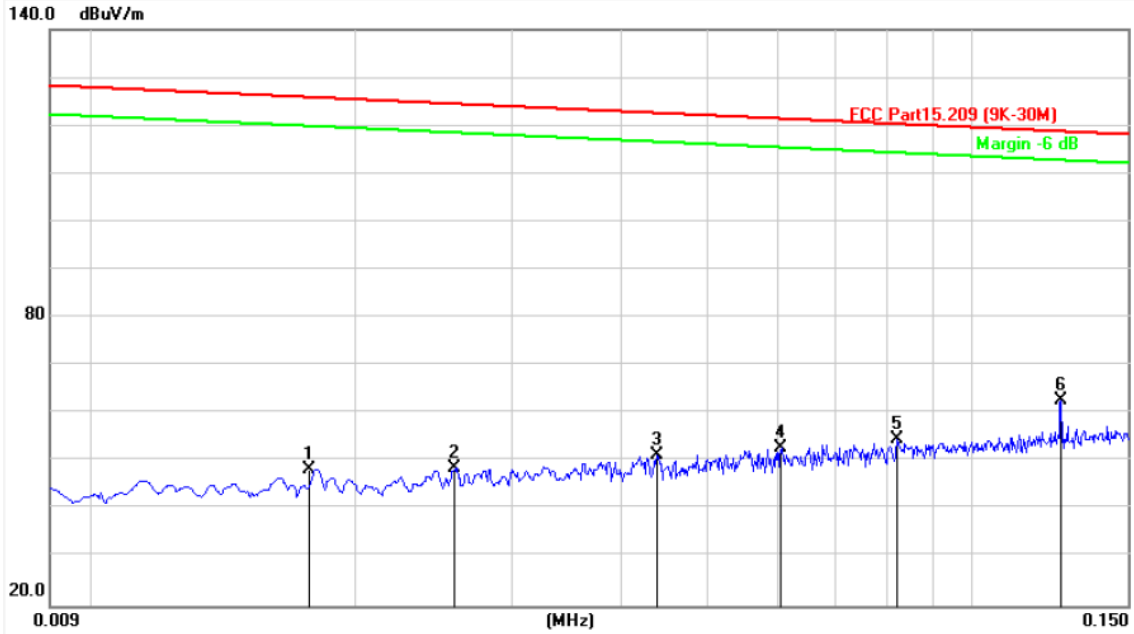
Test Mode

Please refer to the clause 2.4.

Test Result

9kHz-150kHz

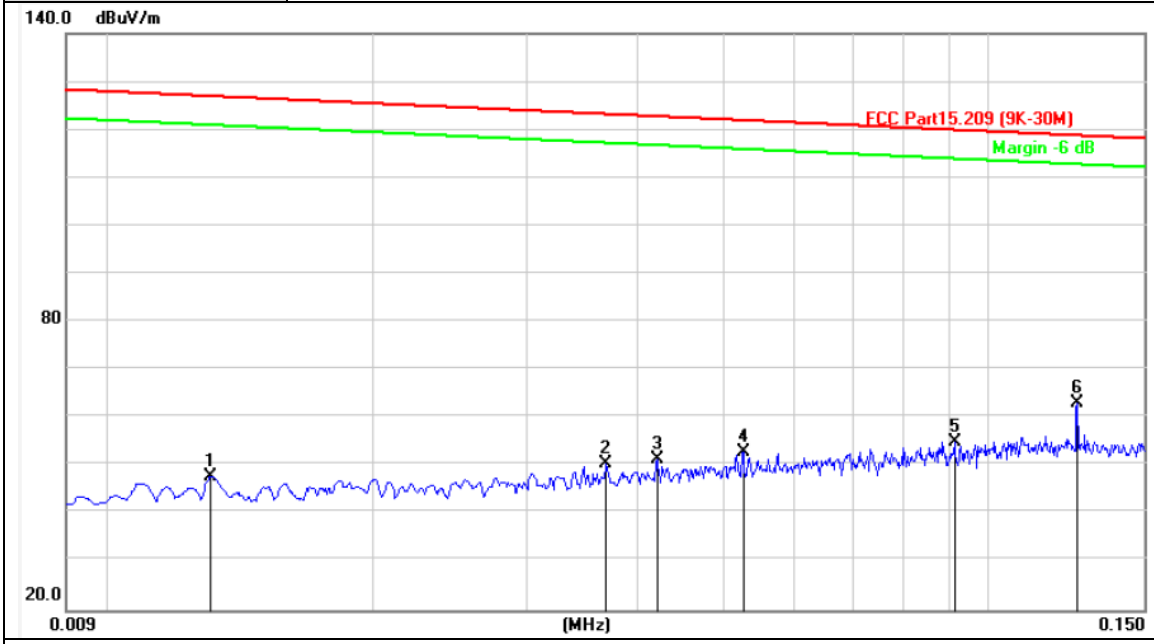
Ant. Pol.	Horizontal



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0177	-7.58	55.93	48.35	127.86	-79.51	QP
2	0.0258	-9.63	58.37	48.74	127.27	-78.53	QP
3	0.0439	-11.20	62.49	51.29	125.97	-74.68	QP
4	0.0606	-11.50	64.31	52.81	124.76	-71.95	QP
5	0.0821	-12.89	67.55	54.66	123.21	-68.55	QP
6	0.1259	-13.48	76.29	62.81	120.05	-57.24	QP

Emission Level= Read Level+ Correct Factor

Ant. Pol.	Vertical

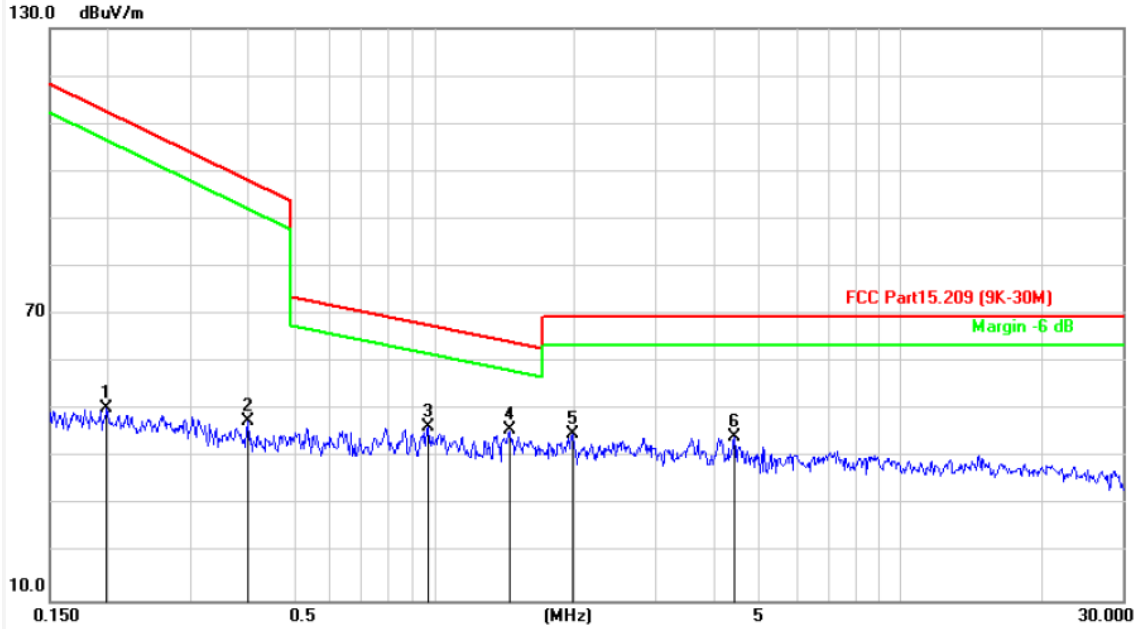


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0131	-6.42	54.07	47.65	128.19	-80.54	QP
2	0.0369	-10.92	61.34	50.42	126.47	-76.05	QP
3	0.0420	-11.12	62.49	51.37	126.11	-74.74	QP
4	0.0526	-11.46	64.37	52.91	125.34	-72.43	QP
5	0.0913	-13.74	68.81	55.07	122.55	-67.48	QP
6	0.1262	-13.48	76.46	62.98	120.03	-57.05	QP

Emission Level= Read Level+ Correct Factor

150kHz-30MHz

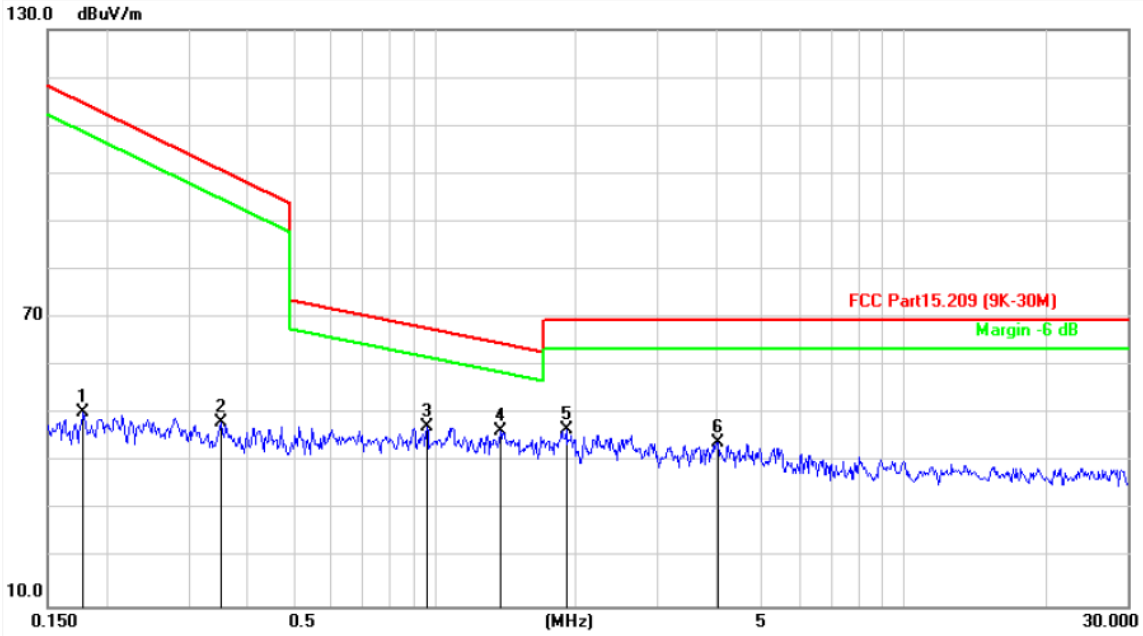
Ant. Pol.	Horizontal



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1985	-13.58	63.93	50.35	114.82	-64.47	QP
2	0.3996	-13.67	61.26	47.59	100.31	-52.72	QP
3	0.9683	-13.68	60.21	46.53	69.55	-23.02	QP
4	1.4480	-13.79	59.49	45.70	65.28	-19.58	QP
5	1.9798	-13.90	58.79	44.89	69.50	-24.61	QP
6	4.4069	-14.12	58.45	44.33	69.50	-25.17	QP

Emission Level= Read Level+ Correct Factor

Ant. Pol.	Vertical

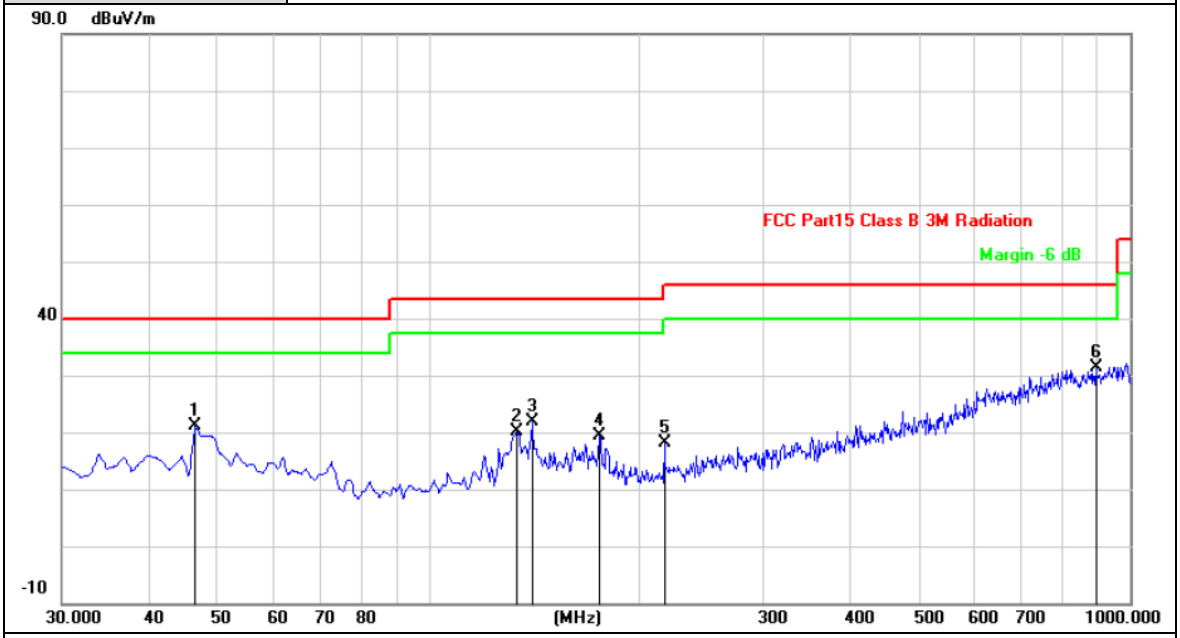


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1785	-13.58	63.96	50.38	116.26	-65.88	QP
2	0.3501	-13.65	61.88	48.23	103.88	-55.65	QP
3	0.9628	-13.68	61.12	47.44	69.60	-22.16	QP
4	1.3810	-13.79	60.15	46.36	65.88	-19.52	QP
5	1.9076	-13.88	60.73	46.85	69.50	-22.65	QP
6	4.0274	-14.13	58.19	44.06	69.50	-25.44	QP

Emission Level= Read Level+ Correct Factor

30MHz-1000MHz

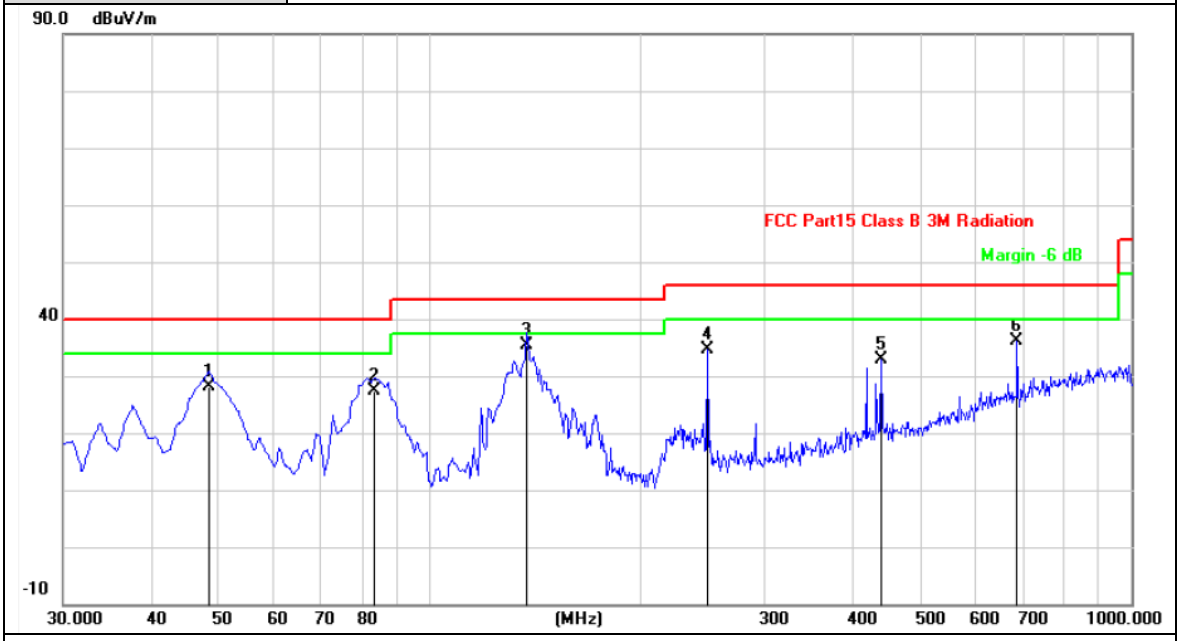
Ant. Pol.	Horizontal



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	46.4900	-14.64	35.69	21.05	40.00	-18.95	QP
2	133.7899	-15.55	35.70	20.15	43.50	-23.35	QP
3	140.5800	-15.22	37.07	21.85	43.50	-21.65	QP
4	175.5000	-15.56	34.87	19.31	43.50	-24.19	QP
5	217.2100	-18.05	36.09	18.04	46.00	-27.96	QP
6	894.2699	-1.85	33.24	31.39	46.00	-14.61	QP

Emission Level= Read Level+ Correct Factor

Ant. Pol.	Vertical



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.4300	-14.61	42.71	28.10	40.00	-11.90	QP
2	83.3500	-19.03	46.33	27.30	40.00	-12.70	QP
3	137.6700	-15.37	50.87	35.50	43.50	-8.00	QP
4	249.2197	-16.23	50.98	34.75	46.00	-11.25	QP
5	440.3100	-10.67	43.44	32.77	46.00	-13.23	QP
6	687.6598	-5.30	41.48	36.18	46.00	-9.82	QP

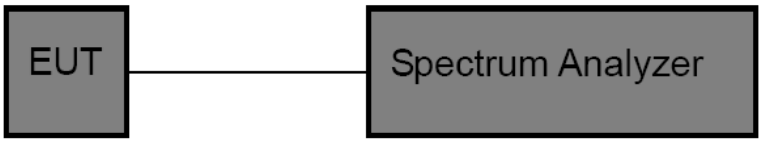
Emission Level= Read Level+ Correct Factor

3.3. 20dB Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.215
Intentional radiators must be designed to ensure that the 20dB emission bandwidth in the specific band.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
   (1) Set RBW ≥ 1% of the 20 dB bandwidth.
   (2) Set the video bandwidth (VBW) ≥ RBW.
   (3) Detector = Peak.
   (4) Trace mode = Max hold.
   (5) Sweep = Auto couple.

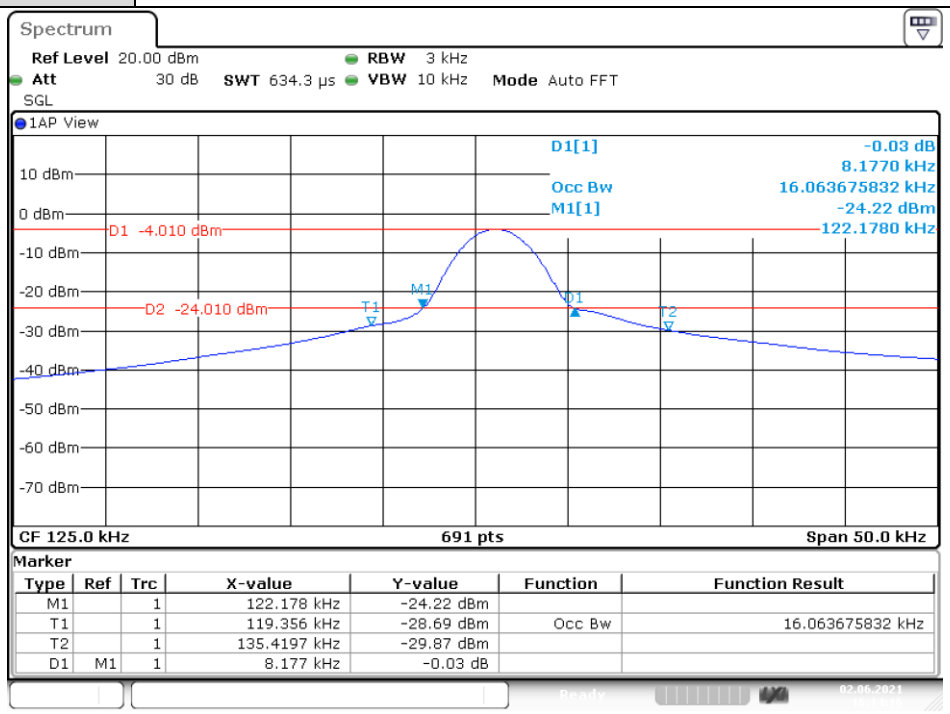
Test Mode

Please refer to the clause 2.4.

Test Result

Channel Frequency(kHz)	Occupied Bandwidth(kHz)	20dB Bandwidth(kHz)	Result
125	16.06	8.18	PASS

Test Frequency	125 kHz



Date: 2.JUN.2021 16:14:16

3.4. Field Strength of the Fundamental

Limit

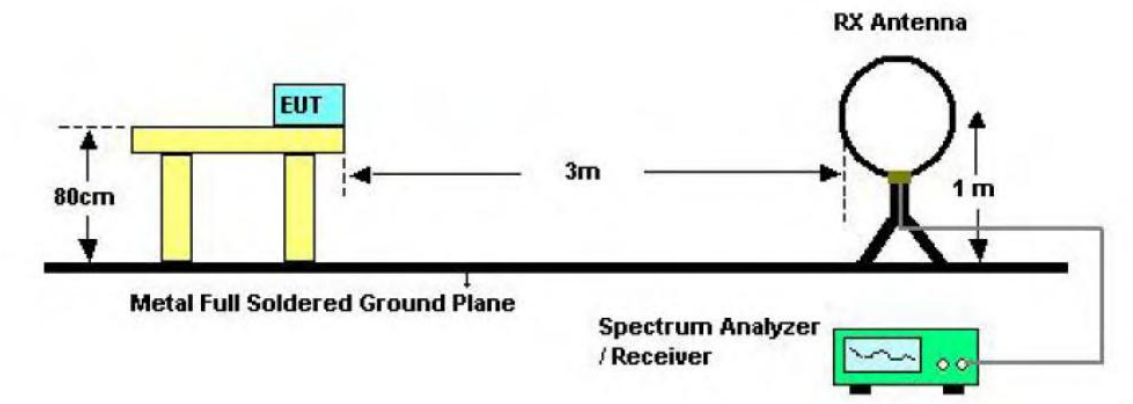
FCC CFR Title 47 Part 15 Subpart C Section 15.209

Limit for frequency below 30MHz:

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009~0.490	2400/F(kHz)	300	Quasi-peak
0.490~1.705	24000/F(kHz)	30	Quasi-peak
1.705~30.0	30	30	Quasi-peak

Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,
Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

Test Configuration



Below 30MHz Test Setup

Test Procedure

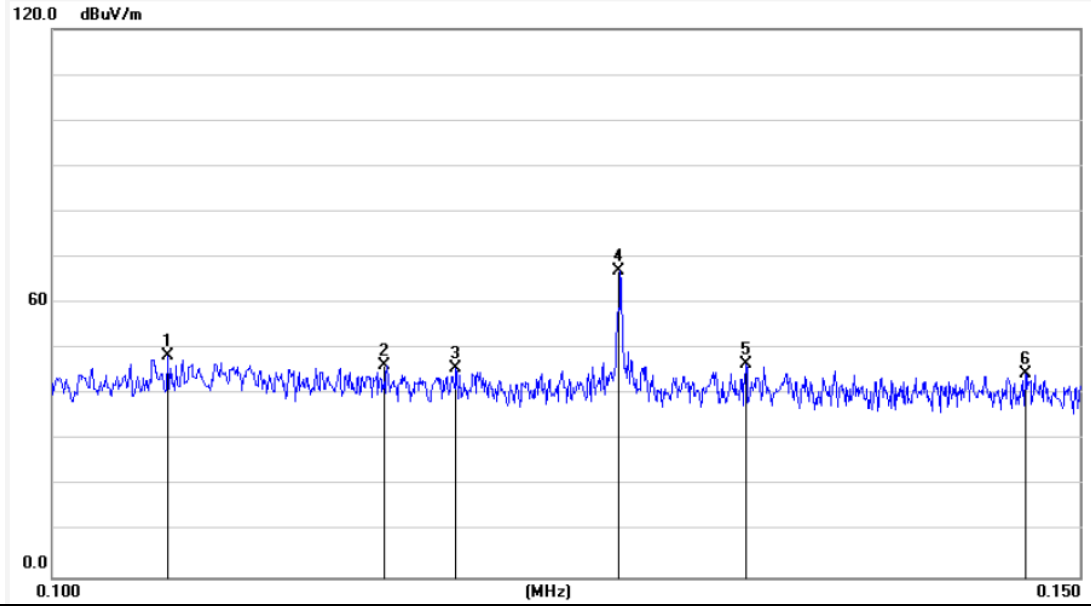
1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.

Test Mode

Please refer to the clause 2.4.

Test Result

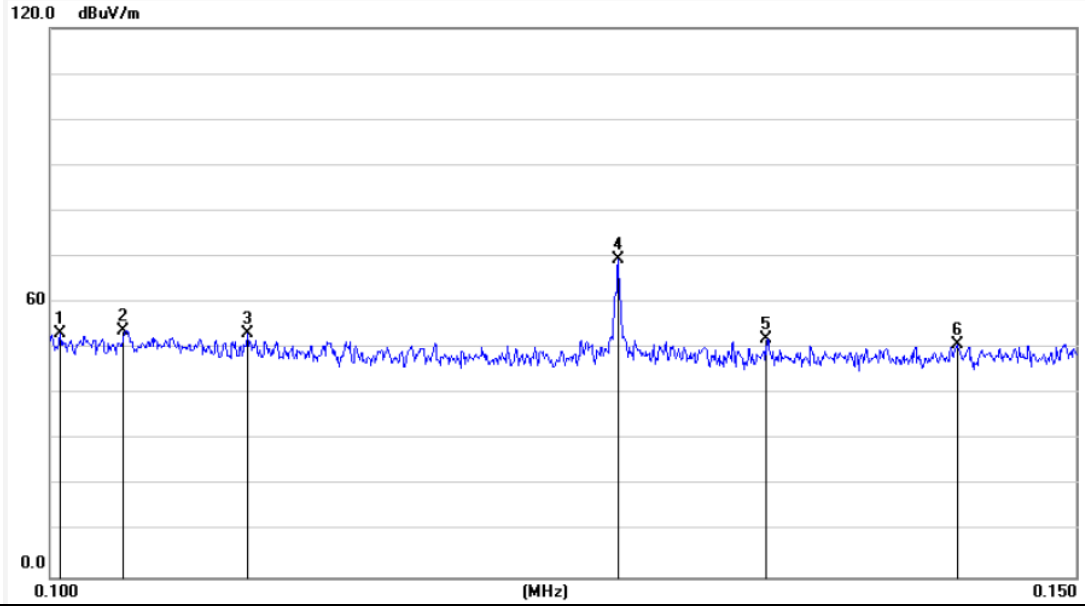
Ant. Pol.	Horizontal



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1047	16.97	31.58	48.55	80.50	-31.95	QP
2	0.1140	16.98	29.33	46.31	80.50	-34.19	QP
3	0.1173	16.96	28.79	45.75	80.50	-34.75	QP
4	0.1250	16.92	49.98	66.90	80.50	-13.60	QP
5	0.1315	16.89	29.87	46.76	80.50	-33.74	QP
6	0.1468	16.82	27.67	44.49	80.50	-36.01	QP

Emission Level= Read Level+ Correct Factor

Ant. Pol.	Vertical



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1004	16.95	36.26	53.21	80.50	-27.29	QP
2	0.1029	16.96	36.98	53.94	80.50	-26.56	QP
3	0.1081	16.99	36.35	53.34	80.50	-27.16	QP
4	0.1252	16.92	52.61	69.53	80.50	-10.97	QP
5	0.1327	16.89	35.03	51.92	80.50	-28.58	QP
6	0.1431	16.83	34.03	50.86	80.50	-29.64	QP

Emission Level= Read Level+ Correct Factor

3.5. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C 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 anantenna 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.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

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