

TEST REPORT

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Report Number : RA230506-24384E-RF
FCC ID: 2A4G9-008

Test Standard (s)

FCC PART 15.231

Sample Description

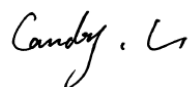
Product Type: Remote Control Transmitter
Model No.: MLC18
Trade Mark: 
Date Received: 2023-05-06
Date of Test: 2023-05-26 to 2023-06-09
Report Date: 2023-06-09

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Amanda Wei
EMC Engineer

Approved By:

Candy Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk ★.

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TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	3
GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
TEST METHODOLOGY	4
MEASUREMENT UNCERTAINTY	5
SYSTEM TEST CONFIGURATION.....	6
JUSTIFICATION	6
SPECIAL ACCESSORIES	6
EQUIPMENT MODIFICATIONS	6
SUPPORT EQUIPMENT LIST AND DETAILS	6
EXTERNAL I/O CABLE.....	6
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS.....	9
TEST EQUIPMENT LIST AND DETAILS	10
FCC §1.1307 (B) & §2.1093 – RF EXPOSURE.....	11
APPLICABLE STANDARD	11
TEST RESULT:	11
FCC §15.203 - ANTENNA REQUIREMENT.....	12
APPLICABLE STANDARD	12
ANTENNA CONNECTOR CONSTRUCTION	12
FCC §15.207 (A) – AC LINE CONDUCTED EMISSIONS	13
APPLICABLE STANDARD	13
EUT SETUP.....	13
EMI TEST RECEIVER SETUP.....	13
TEST PROCEDURE	14
FACTOR & MARGIN CALCULATION	14
TEST DATA	14
FCC §15.205, §15.209, §15.231 (B) - RADIATED EMISSIONS	17
APPLICABLE STANDARD	17
EUT SETUP.....	17
EMI TEST RECEIVER SETUP.....	18
TEST PROCEDURE	18
CORRECTED AMPLITUDE & MARGIN CALCULATION	19
TEST RESULTS SUMMARY.....	19
TEST DATA	19
FCC §15.231(A) (1) - DEACTIVATION TESTING.....	26
APPLICABLE STANDARD	26
TEST PROCEDURE	26
TEST DATA	26
FCC §15.231(C) – 20 DB EMISSION BANDWIDTH TESTING	28
APPLICABLE STANDARD	28
TEST PROCEDURE	28
TEST DATA	28

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	RA230506-24384E-RF	Original Report	2023-06-09

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Remote Control Transmitter
Tested Model	MLC18
Frequency Range	433.92MHz
E-field strength	65.67dBuV/m@3m
Modulation Technique	ASK
Antenna Specification*	Integral antenna (It is provided by the applicant)
Voltage Range	DC 1.5V*3 AAA battery or DC 5.0V from DC port
Sample serial number	RA230506-24384E-RF-S1 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

All the test measurements were performed according to the measurement procedure described in ANSI C63.10 - 2013.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209, 15.35(c) and 15.231 rules.

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 emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.
Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF output power, conducted		0.71dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.74dB
Emissions, Radiated	30MHz - 1GHz	5.08dB
	1GHz - 18GHz	4.96dB
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 Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, 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.: 708358, the FCC Designation No.: CN1189.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016. The Registration Number is 30241.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in Engineering Mode and the power is default, which was provided and declared by manufacturer.

Operating frequency: 433.92MHz

Special Accessories

No special accessories was used

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

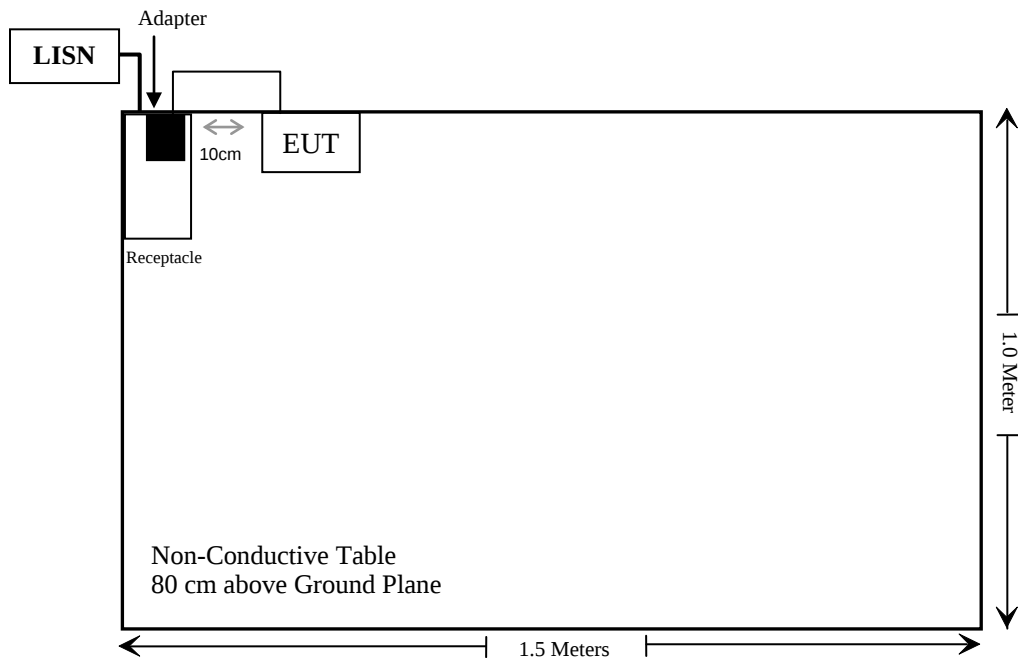
Manufacturer	Description	Model	Serial Number
Unknown	Switching power adapter	FX18E-050200J	Unknown

External I/O Cable

Cable Description	Length (m)	From / Port	To
Un-shielding Un-Detachable DC Cable	1.28	EUT	Adapter

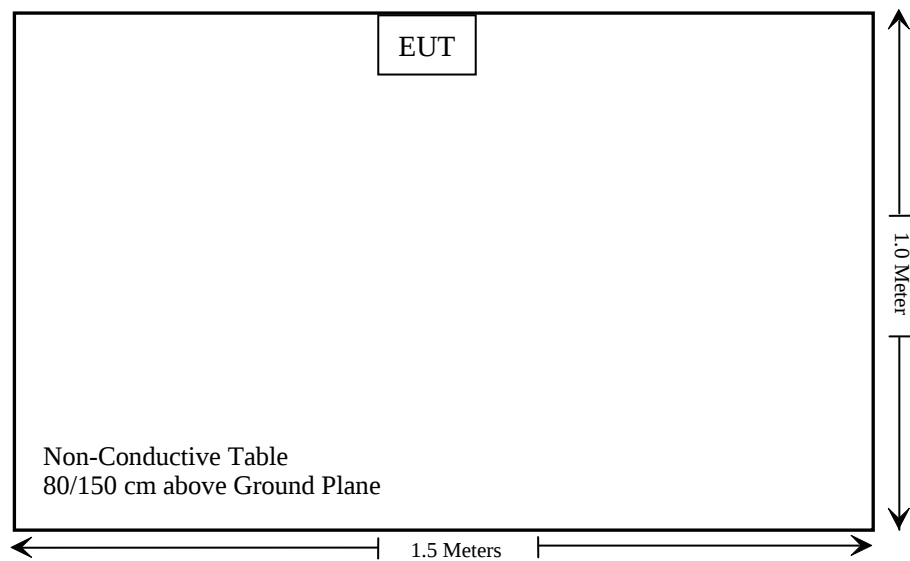
Block Diagram of Test Setup

For Conducted Emission



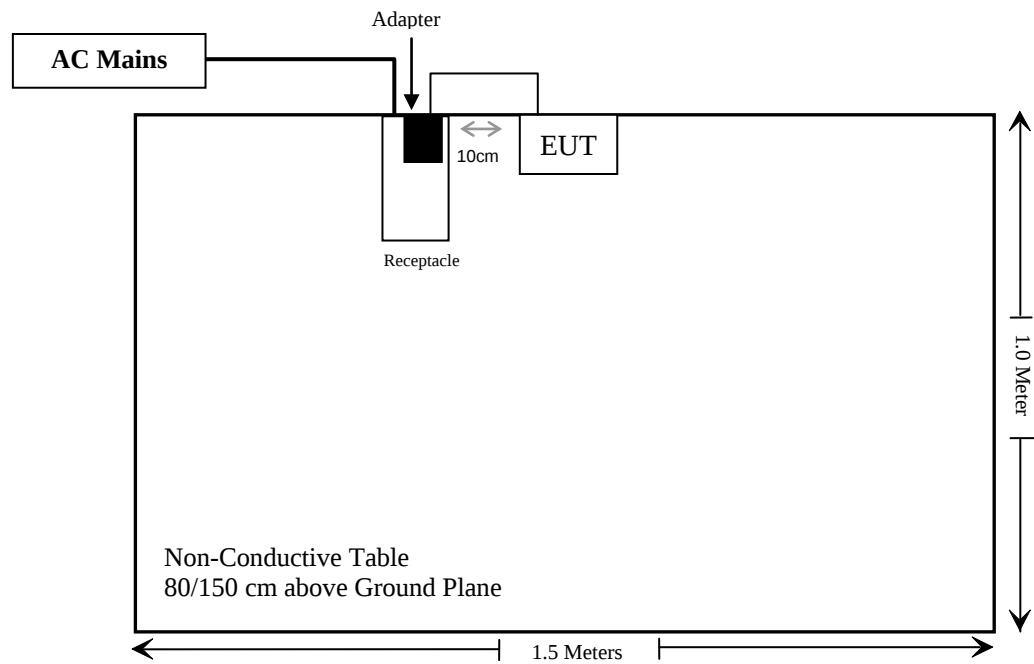
For Radiated Emission

Powered by battery:



Note: the support table edge was flush with the center of turntable

Powered by adapter:



Note: the support table edge was flush with the center of turntable

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 (b) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207	AC Line Conducted Emission	Compliant
§15.205, §15.209, §15.231(b)	Radiated Emissions	Compliant
§15.231 (c)	20dB Emission Bandwidth	Compliant
§15.231 (a) (1)	Deactivation	Compliant

Note1: the EUT have 4 functional modes, pre-scan all modes, the worst case “PIR” mode was tested and recorded in the report.

Note2: The 4 functional modes have same parameter setting.

TEST EQUIPMENT LIST AND DETAILS

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission Test					
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2022/11/25	2023/11/24
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.17	N0350	2022/11/25	2023/11/24
Conducted Emission Test Software: e3 191218 (V9)					
Radiated Emission Test					
Rohde & Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24
SONOMA INSTRUMENT	Amplifier	310 N	186131	2022/11/08	2023/11/07
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07
Schwarzbeck	Bilog Antenna	VULB9163	9163-194	2023/02/14	2026/02/13
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.13	N300	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.14	N800	2022/11/25	2023/11/24
Radiated Emission Test Software:e3 191218 (V9)					

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307 (b) & §2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.2 – 1-mW test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

Test Result:

For worst case:

Mode	Frequency	Maximum Power		1-mW test Exemption
	(MHz)	(dBm)	(mW)	
SRD	433.92	-29.53	0.001	Yes

Note : $E(\text{dBuV/m}) = \text{EIRP}(\text{dBm}) - 95.2$ for distance 3m

Use the highest E-field strength(65.67dBuV/m) for the evaluation, so the

$\text{EIRP} = 65.67\text{dBuV/m} - 95.2 = -29.53\text{dBm}$

Result: Compliant.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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.

Antenna Connector Construction

The EUT has one internal antenna arrangement which was permanently attached, fulfill the requirement of this section. Please refer to EUT photos.

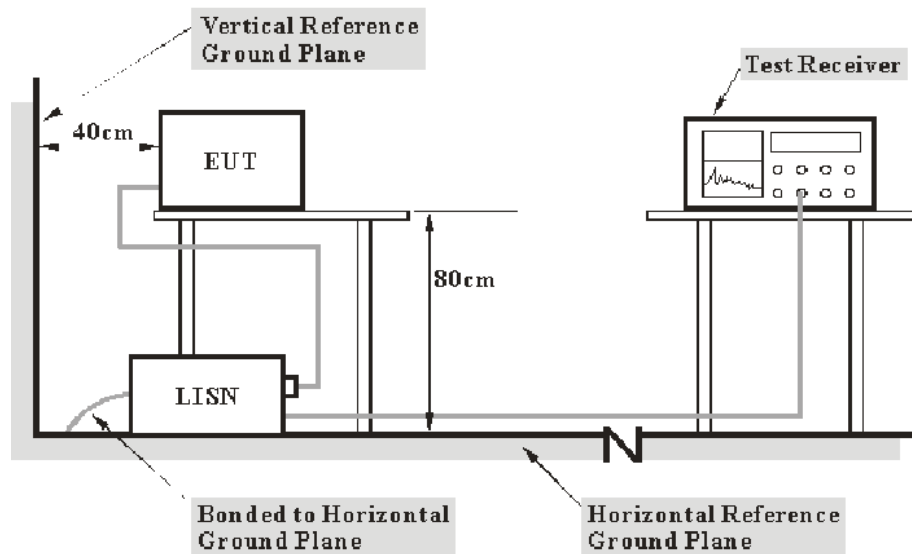
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

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 ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

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

During the conducted emission test, the adapter was connected to the outlet of the LISN.

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.

Factor & Margin Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

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

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Test Data

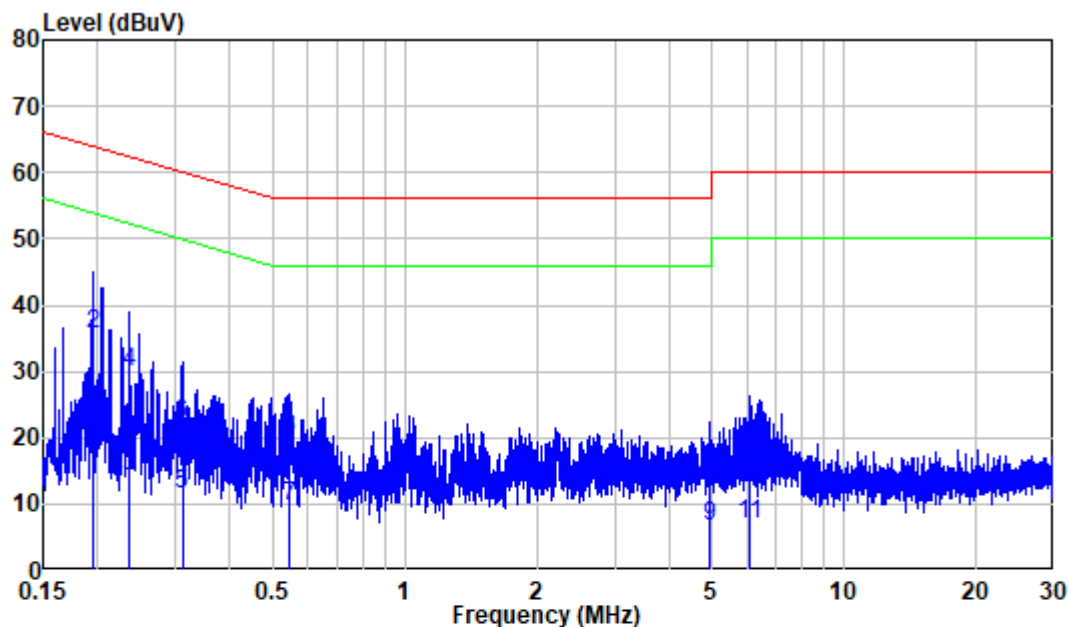
Environmental Conditions

Temperature:	23 °C
Relative Humidity:	49 %
ATM Pressure:	101.0 kPa

The testing was performed by Jerry Wu on 2023-06-07.

EUT operation mode: Transmitting

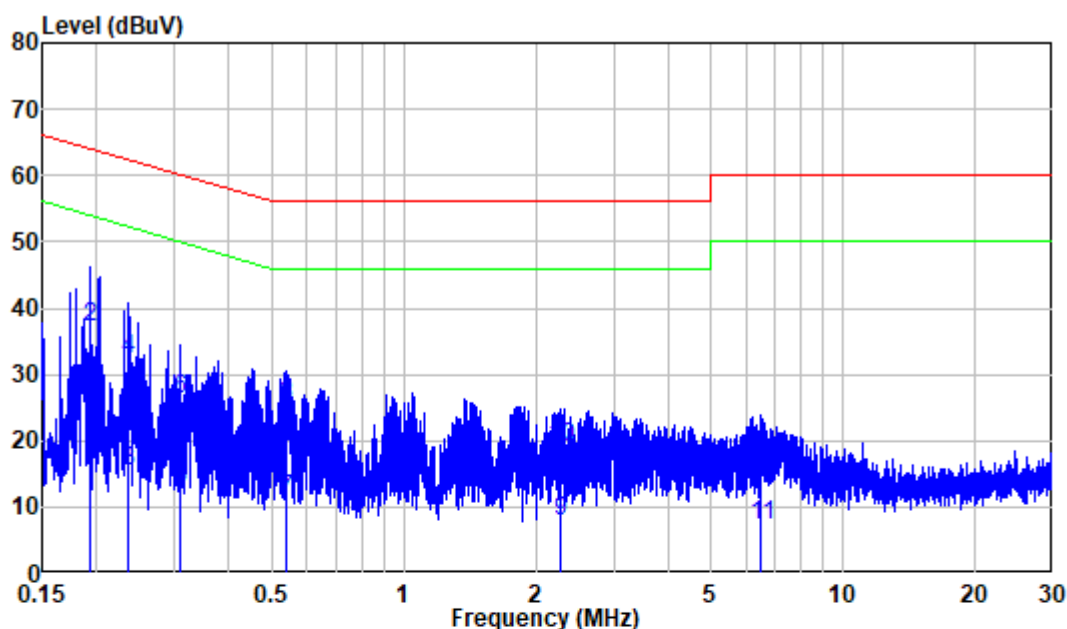
AC 120V/60 Hz, Line



Site : Shielding Room
 Condition: Line
 Job No. : RA230506-24384E-RF
 Mode : 433.92MHz TX
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.194	10.30	6.52	16.82	53.85	-37.03	Average
2	0.194	10.30	25.23	35.53	63.85	-28.32	QP
3	0.235	10.34	3.72	14.06	52.26	-38.20	Average
4	0.235	10.34	19.52	29.86	62.26	-32.40	QP
5	0.311	10.42	1.11	11.53	49.94	-38.41	Average
6	0.311	10.42	11.65	22.07	59.94	-37.87	QP
7	0.545	10.60	-0.83	9.77	46.00	-36.23	Average
8	0.545	10.60	9.47	20.07	56.00	-35.93	QP
9	4.952	10.55	-3.91	6.64	46.00	-39.36	Average
10	4.952	10.55	2.00	12.55	56.00	-43.45	QP
11	6.097	10.59	-3.78	6.81	50.00	-43.19	Average
12	6.097	10.59	4.36	14.95	60.00	-45.05	QP

AC 120V/60 Hz, Neutral



Site : Shielding Room
Condition: Neutral
Job No. : RA230506-24384E-RF
Mode : 433.92MHz TX
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBUV	dBUV	dBUV	dB	
1	0.194	10.29	6.26	16.55	53.88	-37.33	Average
2	0.194	10.29	26.75	37.04	63.88	-26.84	QP
3	0.237	10.32	5.08	15.40	52.22	-36.82	Average
4	0.237	10.32	21.91	32.23	62.22	-29.99	QP
5	0.310	10.37	2.43	12.80	49.97	-37.17	Average
6	0.310	10.37	15.96	26.33	59.97	-33.64	QP
7	0.539	10.47	0.71	11.18	46.00	-34.82	Average
8	0.539	10.47	14.85	25.32	56.00	-30.68	QP
9	2.282	10.50	-2.68	7.82	46.00	-38.18	Average
10	2.282	10.50	8.38	18.88	56.00	-37.12	QP
11	6.501	10.51	-3.12	7.39	50.00	-42.61	Average
12	6.501	10.51	4.86	15.37	60.00	-44.63	QP

FCC §15.205, §15.209, §15.231 (b) - RADIATED EMISSIONS

Applicable Standard

FCC §15.205, §15.209, §15.231 (b)

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

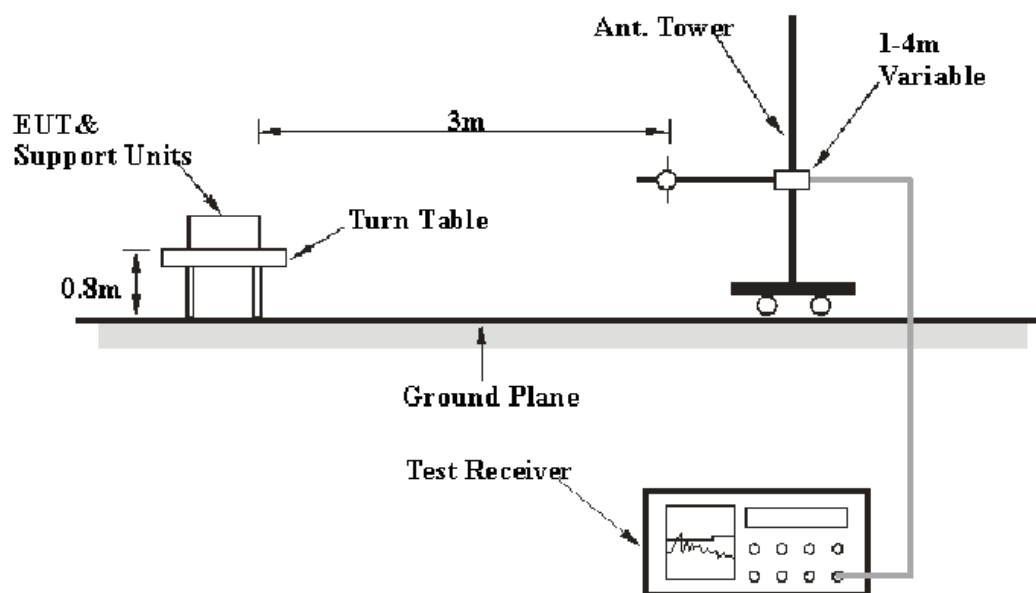
Fundamental frequency (MHz)	Field Strength of Fundamental (Microvolts /meter)	Field Strength of spurious emissions (Microvolts /meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750**	125 to 375**
174-260	3750	375
260-470	3750 to 12500**	375 to 1250**
Above 470	12500	1250

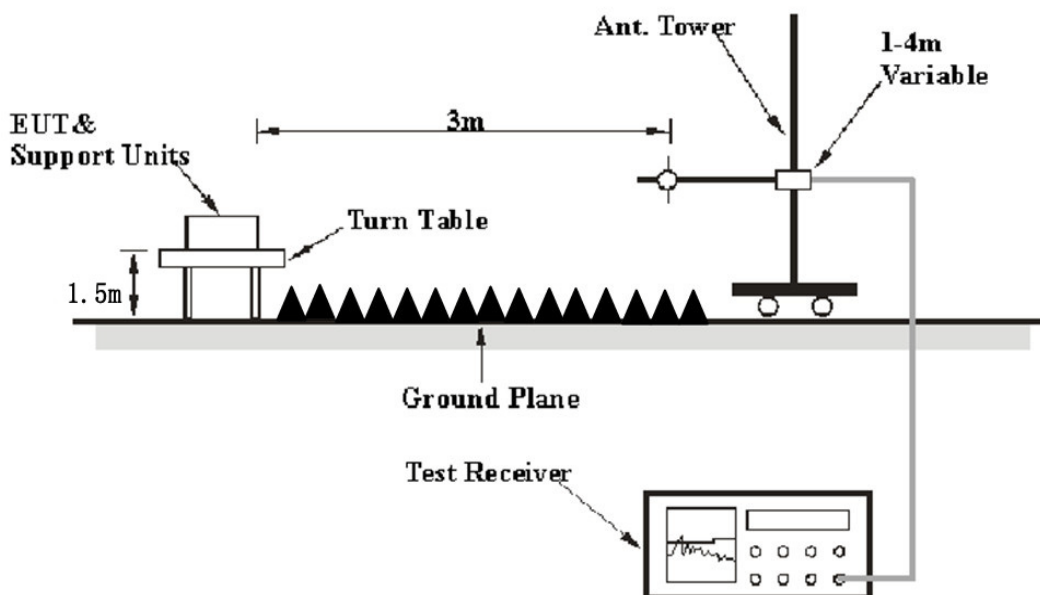
**linear interpolations

The above field strength limits are specified at a distance of 3-meters the tighter limits apply at the band edges.

EUT Setup

Below 1 GHz:



Above 1 GHz:

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10 - 2013. The specification used was the FCC 15 § 15.209, 15.205 and 15.231.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	PK
Above 1 GHz	1 MHz	3 MHz	/	PK

Test Procedure

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

All final data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz, Peak and average detection mode above 1 GHz.

If the maximized peak measured value complies with the limit, then it is unnecessary to perform QP/Average measurement.

Corrected Amplitude & Margin Calculation

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

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

$$\begin{aligned}\text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.205, §15.209, §15.231 (b).

Test Data

Environmental Conditions

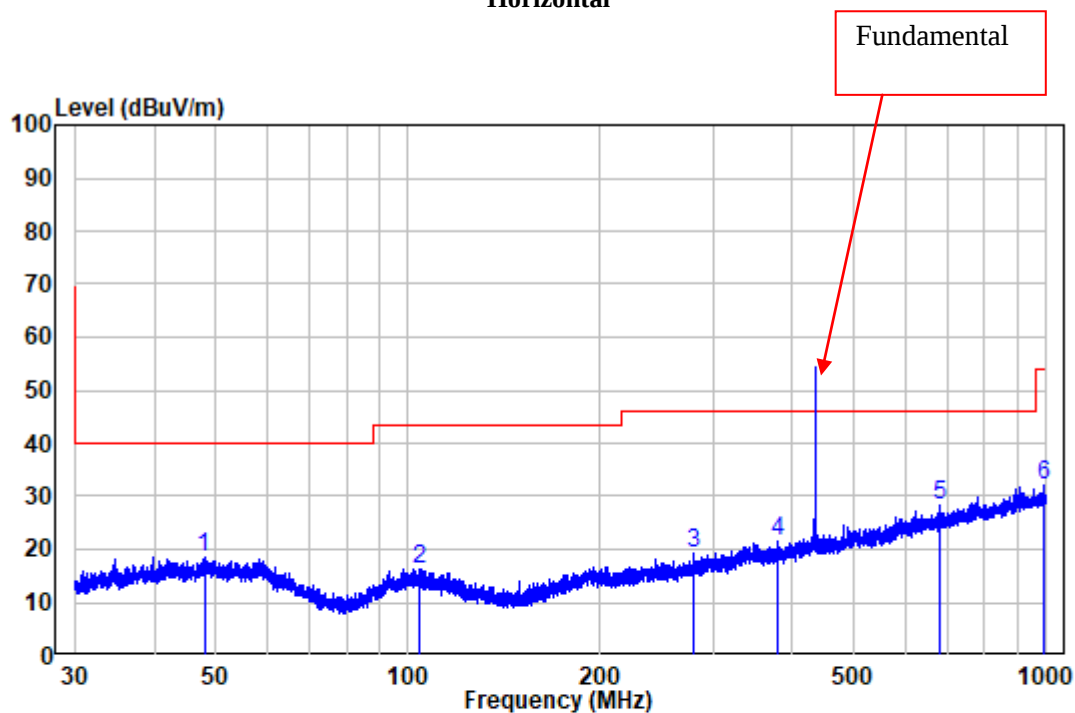
Temperature:	23-24 °C
Relative Humidity:	53-56 %
ATM Pressure:	101.0 kPa

The Below 1G testing was performed by Jason Liu on 2023-05-26 and 2023-06-07.

The Above 1G testing was performed by Jimi Zheng on 2023-05-26.

Test mode: Transmitting

(Pre-scan in the X, Y and Z axes of orientation, the worst case as setup photos was recorded)

30MHz – 1 GHz:**Powered by Adapter:****Horizontal**

Site : chamber

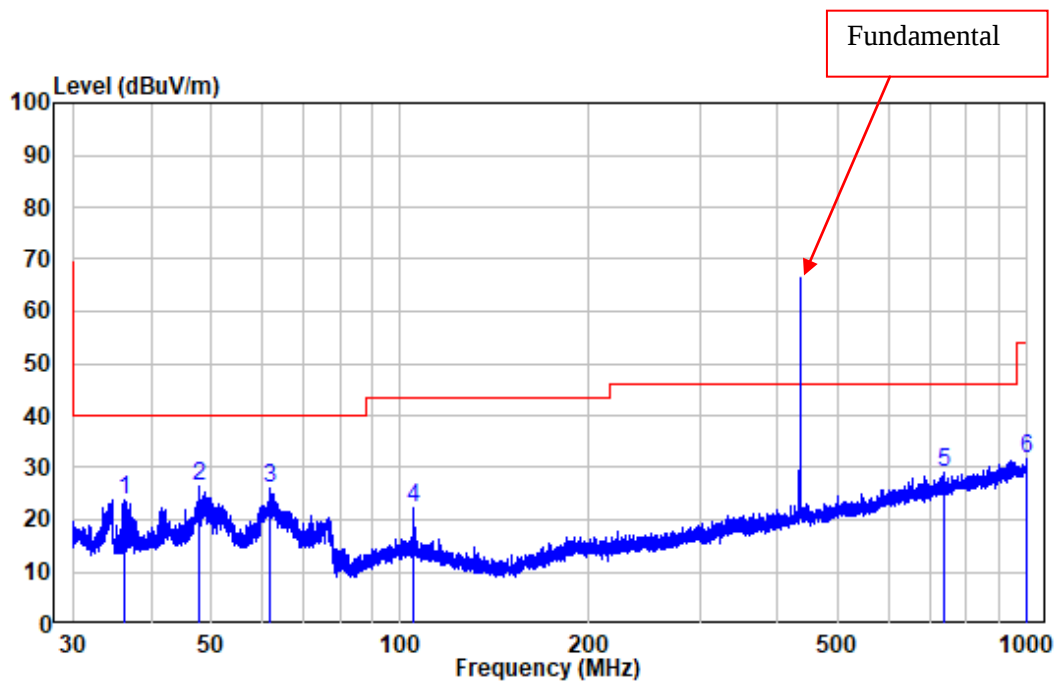
Condition: 3m Horizontal

Job No. : RA230506-24384E-RF

Test Mode: 433.92MHz TX

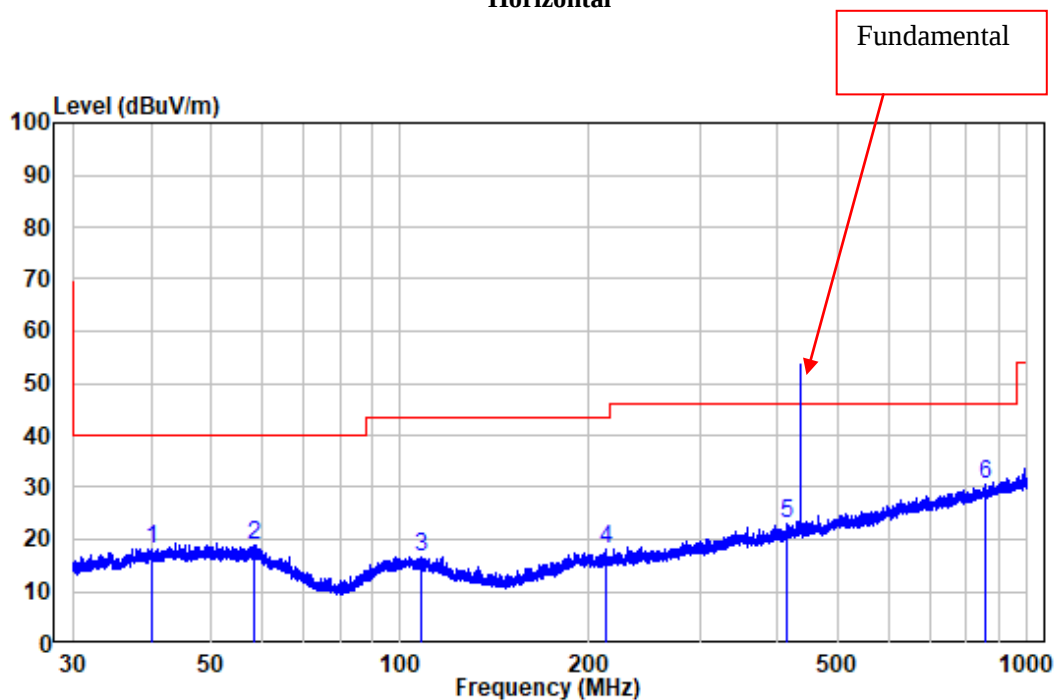
	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	47.910	-10.00	28.61	18.61	40.00	-21.39	Peak
2	104.079	-11.75	28.13	16.38	43.50	-27.12	Peak
3	280.761	-9.56	28.74	19.18	46.00	-26.82	Peak
4	379.415	-7.15	28.69	21.54	46.00	-24.46	Peak
5	679.066	-1.52	29.63	28.11	46.00	-17.89	Peak
6	989.969	2.81	29.30	32.11	54.00	-21.89	Peak

Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : RA230506-24384E-RF
Test Mode: 433.92MHz TX

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.286	-11.15	35.09	23.94	40.00	-16.06	Peak
2	47.575	-10.00	36.53	26.53	40.00	-13.47	Peak
3	61.832	-11.37	37.56	26.19	40.00	-13.81	Peak
4	105.180	-11.85	34.05	22.20	43.50	-21.30	Peak
5	734.491	-0.68	29.87	29.19	46.00	-16.81	Peak
6	995.190	2.92	28.80	31.72	54.00	-22.28	Peak

Powered by Battery:**Horizontal**

Site : chamber

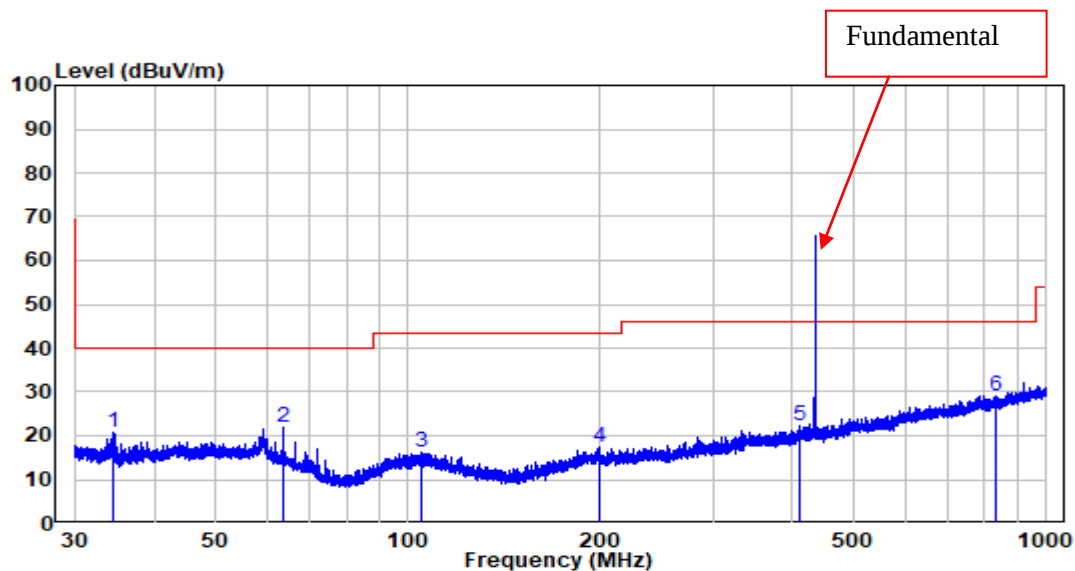
Condition: 3m HORIZONTAL

Job No. : RA230506-24384E-RF

Test Mode: 433.92MHz TX

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.029	-10.34	28.45	18.11	40.00	-21.89	Peak
2	58.536	-10.09	28.90	18.81	40.00	-21.19	Peak
3	107.746	-11.99	28.50	16.51	43.50	-26.99	Peak
4	212.177	-11.78	29.78	18.00	43.50	-25.50	Peak
5	413.996	-6.25	29.18	22.93	46.00	-23.07	Peak
6	855.149	0.32	30.10	30.42	46.00	-15.58	Peak

Vertical



Site : chamber
Condition: 3m Vertical
Job No. : RA230506-24384E-RF
Test Mode: 433.92MHz TX

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	34.532	-11.69	32.40	20.71	40.00	-19.29	Peak
2	63.591	-12.01	34.06	22.05	40.00	-17.95	Peak
3	105.180	-11.85	27.91	16.06	43.50	-27.44	Peak
4	199.986	-11.40	28.69	17.29	43.50	-26.21	Peak
5	410.383	-6.32	28.53	22.21	46.00	-23.79	Peak
6	834.414	0.18	28.78	28.96	46.00	-17.04	Peak

(worst case for battery)

Frequency (MHz)	Receiver		Turn-Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.231(b)	
	Reading (dBμV)	PK/QP/Ave.	Angle Degree	Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
433.92MHz									
Fundamental									
433.92	59.3	PK	220	1.7	H	-5.73	53.57	80.83	-27.26
433.92	71.4	PK	174	2.1	V	-5.73	65.67	80.83	-15.16
Harmonic									
867.84	27.7	PK	294	2.2	H	0.86	28.56	60.83	-32.27
867.84	28.58	PK	224	1.7	V	0.86	29.44	60.83	-31.39

1-5GHz: (worst case for battery)

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.231(b)	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
433.92MHz									
1301.76	59.34	PK	115	2.1	H	-13.98	45.36	54	-8.64
1301.76	58.44	PK	257	1.4	V	-13.98	44.46	54	-9.54
2169.6	60.79	PK	115	2.1	H	-11.27	49.52	60.83	-11.31
2169.6	57.58	PK	257	1.4	V	-11.27	46.31	60.83	-14.52
2603.52	60.64	PK	26	1.2	H	-10.5	50.14	60.83	-10.69
2603.52	66.48	PK	72	1.8	V	-10.5	55.98	60.83	-4.85
3037.44	60.95	PK	217	1.3	H	-10.15	50.8	60.83	-10.03
3037.44	58.93	PK	294	2.0	V	-10.15	48.78	60.83	-12.05

Note:

The peak value can meet the limit of the average value.

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

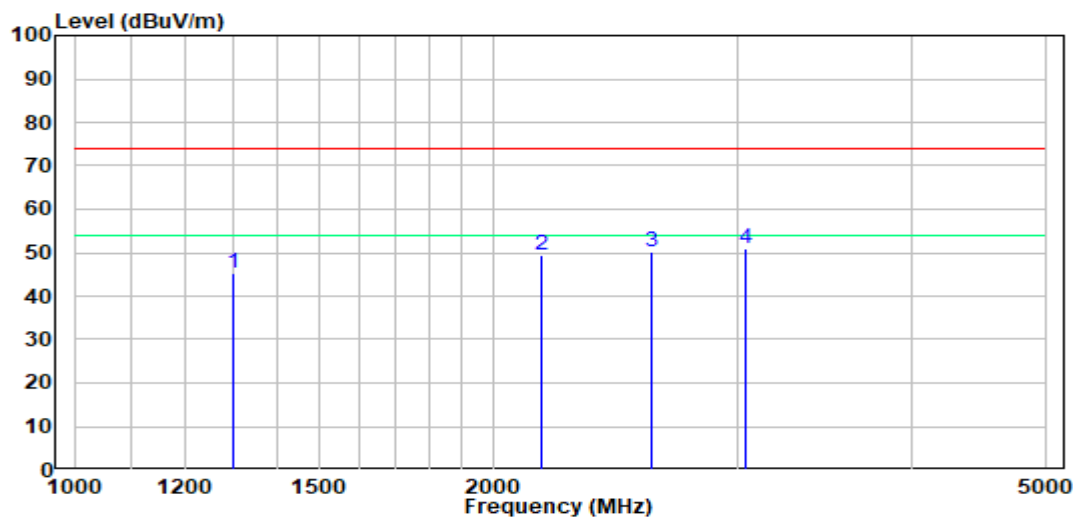
Corrected Amplitude = Factor + Reading

Margin = Corrected Amplitude – Limit

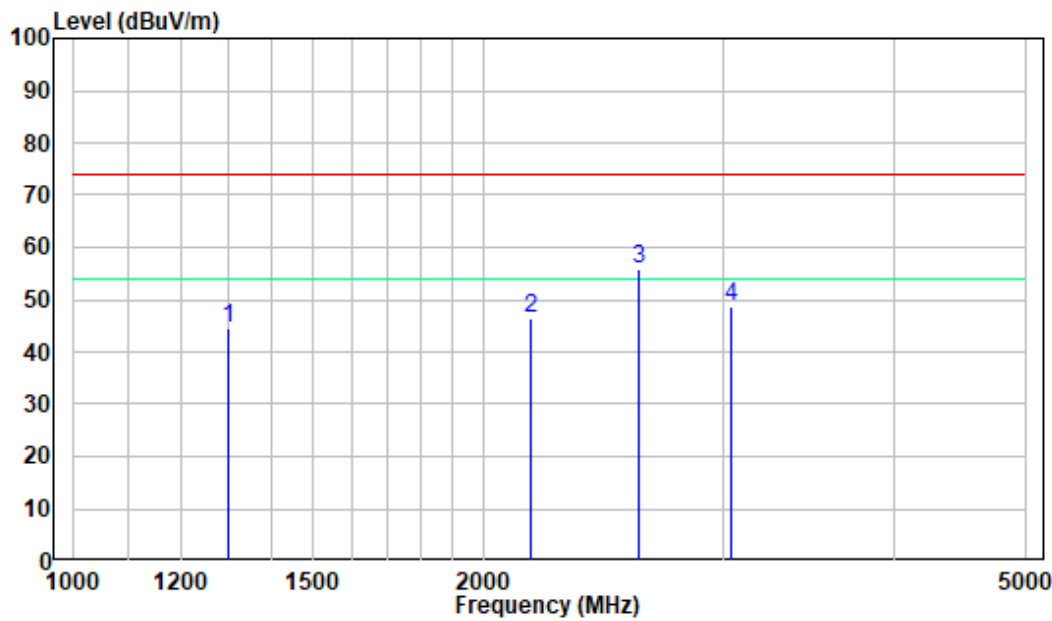
The other spurious emission which is 20dB below the limit or in the noise floor level was not recorded.

Pre-scan plots:

Horizontal



Vertical



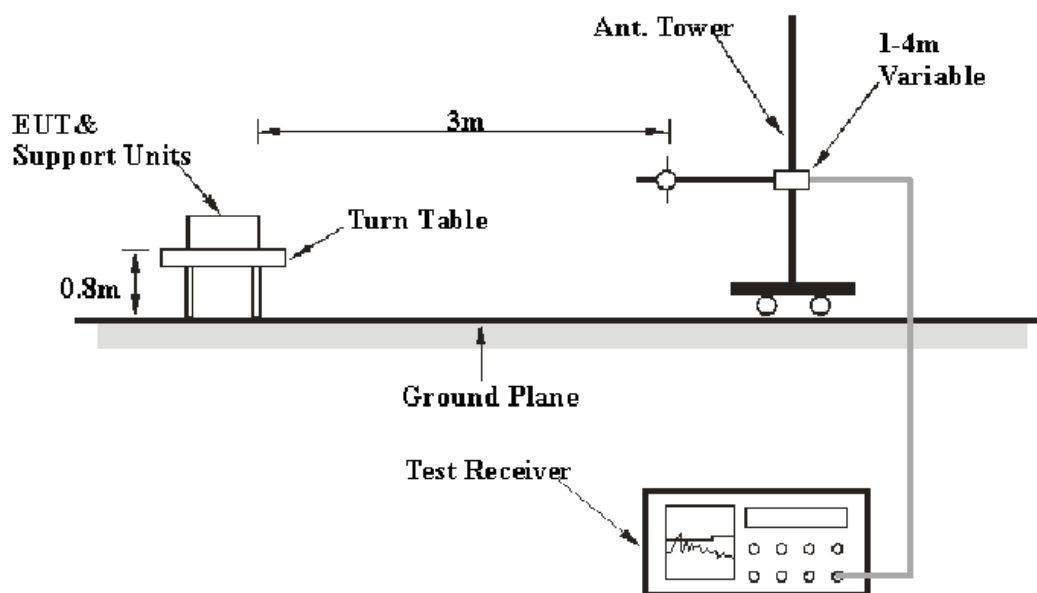
FCC §15.231(a) (1) - DEACTIVATION TESTING

Applicable Standard

Per FCC §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.

Test Procedure

1. Set center frequency of spectrum analyzer=operating frequency.
2. Set the spectrum analyzer as RBW=100kHz/ VBW=300kHz/ Span=0Hz.
3. Repeat above procedures until all frequency measured was complete.



Test Data

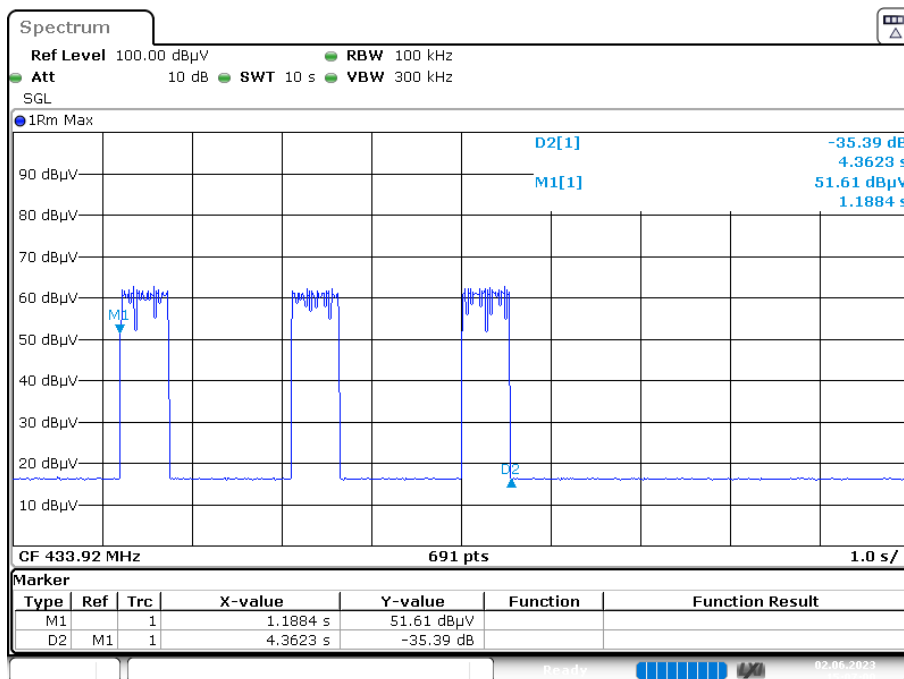
Environmental Conditions

Temperature:	24 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Matt Liang on 2023-06-02.

Test mode: Transmitting

Test Result: Compliant. This product will cease transmission within 5 seconds after activation. Please refer to following plots.



Date: 2.JUN.2023 15:07:00

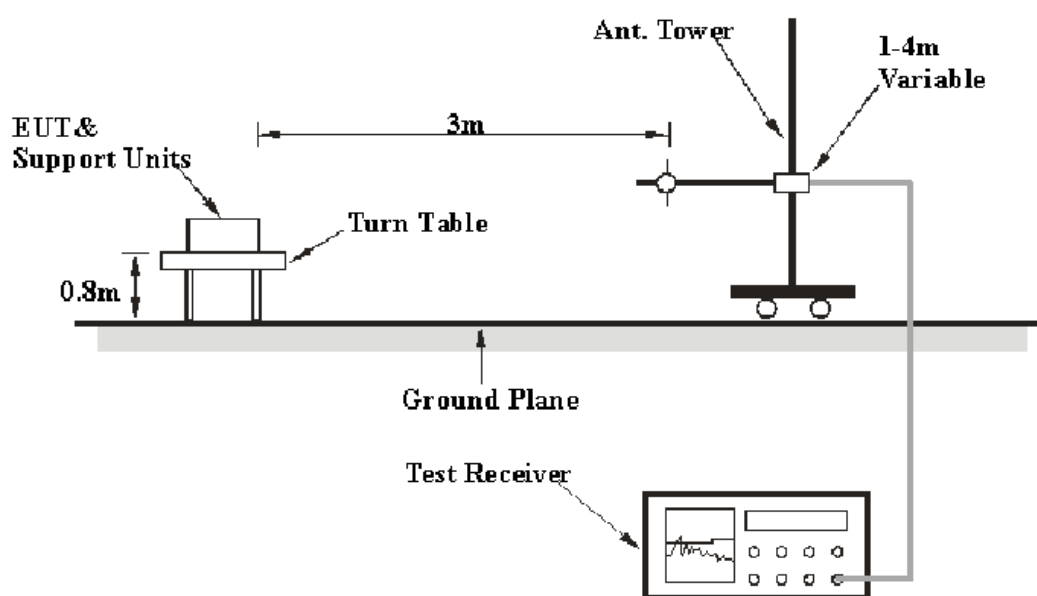
FCC §15.231(c) – 20 dB EMISSION BANDWIDTH TESTING

Applicable Standard

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

Test Procedure

The EUT is setting to the transmit mode, the waveform was received by the test antenna which was connected to the spectrum analyzer, plot the 20 dB bandwidth.



Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	46 %
ATM Pressure:	101.0 kPa

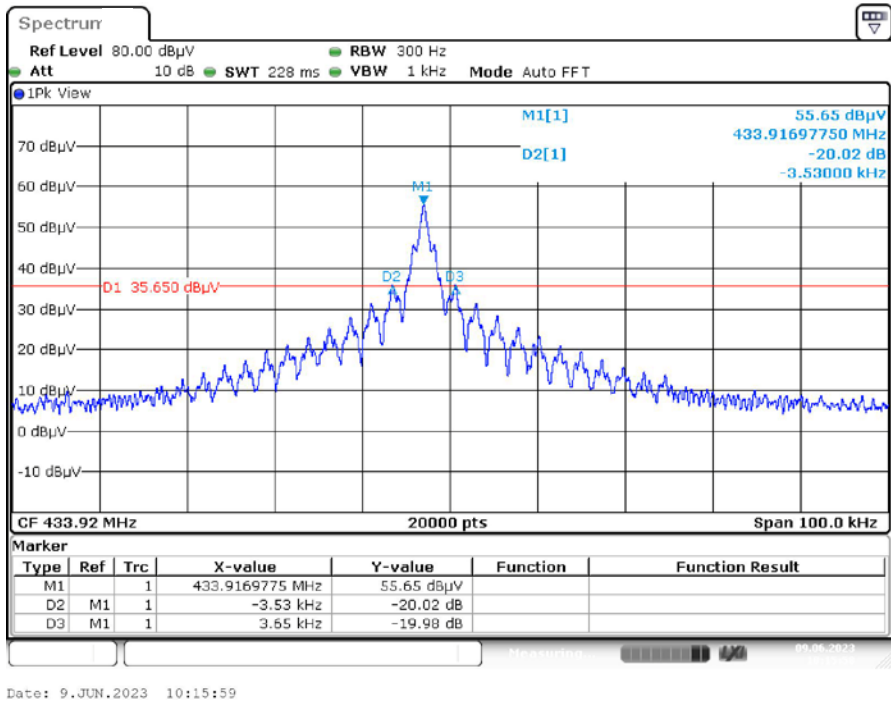
The testing was performed by Matt Liang on 2023-06-09.

Test Mode: Transmitting

Test Result: Compliant. Please refer to following table and plots.

Frequency (MHz)	20 dB Emission Bandwidth (kHz)	Limit (kHz)	Result
433.92	7.18	<1084.8	Pass

20 dB Emission Bandwidth



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