



TESTREPORT

Applicant Name : HONG KONG YO YOUNG INTELLIGENT CO., LIMITED
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KONG,KOWLOON,HONGKONG
Report Number: RA230509-25068E-RF-00D
FCC ID: 2A8X4-RAPTOR

Test Standard (s)

FCC PART 15.225

Sample Description

Product Type: Smart phone
Model No.: RAPTOR
Multiple Model(s) No.: Air2 Pro , Air2, B2 Pro, B2, B2 Ultra
Trade Mark: IIIF150
Date Received: 2023/05/09
Report Date: 2023/06/20

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

Prepared and Checked By:

Nick Fang
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 "★".

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk "★". Customer model name, addresses, names, trademarks etc. are not considered data.

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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
EUT EXERCISE SOFTWARE	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	8
TEST EQUIPMENT LIST	9
FCC §1.1307 (B) & §2.1093 – RF EXPOSURE	10
APPLICABLE STANDARD	10
FCC §15.203 - ANTENNA REQUIREMENT	11
APPLICABLE STANDARD	11
ANTENNA CONNECTED CONSTRUCTION	11
FCC §15.207 – AC LINE CONDUCTED EMISSION	12
APPLICABLE STANDARD	12
EUT SETUP	12
EMI TEST RECEIVER SETUP	12
TEST PROCEDURE	13
TRANSD FACTOR & MARGIN CALCULATION	13
TEST DATA	13
FCC §15.225, §15.205& §15.209 - RADIATED EMISSIONS TEST	16
APPLICABLE STANDARD	16
EUT SETUP	16
EMI TEST RECEIVER SETUP	17
CORRECTED FACTOR& MARGIN CALCULATION	17
TEST DATA	17
FCC §15.225(E) - FREQUENCY STABILITY	29
APPLICABLE STANDARD	29
TEST PROCEDURE	29
TEST DATA	29
FCC §15.215(C) -20DBEMISSION BANDWIDTH	30
REQUIREMENT	30
TEST PROCEDURE	30
TEST DATA	31

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	RA230509-25068E-RF-00D	Original Report	2023-06-20

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Smart phone
Tested model	RAPTOR
Multiple Model(s)	Air2 Pro , Air2, B2 Pro, B2, B2 Ultra (model difference see product declaration letter of similarity)
Frequency Range	13.56 MHz
E-field Strength	58.41dBuV/m@3m
Modulation Technique	ASK
Voltage Range	DC 3.89V from battery or DC 3.3-20V from adapter
Test Sample serial number	25M6-2 for Conducted and Radiated Emissions Test (Assigned by ATC)
Sample/EUT Status	Good condition
Extreme condition*	L.V.: Low Voltage 3.4V _{DC} N.V.: Normal Voltage 3.89V _{DC} H.V.: High Voltage 4.48V _{DC} (provided by the applicant)
Adapter information	Model: FC462U Input: 100-240V, 50/60Hz, 1.5A Max Output: DC 5V, 3A or DC 9V, 3A or DC 12V, 3A or DC 15V, 3A or DC 20V, 3.25A Max PPS: 3.3-20V, 3.25A Max

Objective

This Type approval report is in accordance with Part 2- Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The objective is to determine the compliance of the EUT with FCC rules, section 15.203, 15.205, 15.207, 15.209 and 15.225.

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.

Measurement Uncertainty

Parameter		Uncertainty
Bandwidth		5%
RF Frequency		0.082×10^{-7}
AC Power Lines Conducted Emissions		2.72dB
Emissions, Radiated	9kHz - 30MHz	2.06dB
	30MHz - 1GHz	5.08dB
	1GHz - 18GHz	4.96dB
	18GHz - 26.5GHz	5.16dB
	26.5GHz - 40GHz	4.64dB
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 429 7.01.

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 a typical fashion (as normally used by a typical user).

EUT Exercise Software

No Exercise Software was used.

Equipment Modifications

No modification on the EUT.

Support Equipment List and Details

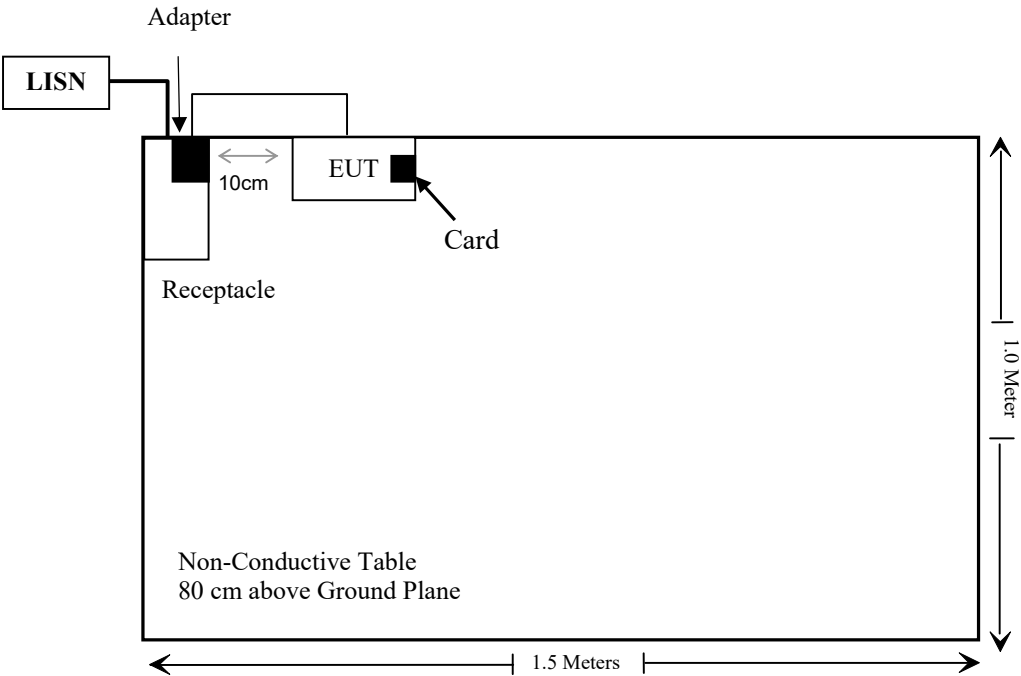
Manufacturer	Description	Model	Serial Number
Unknown	Card	Unknown	Unknown

External I/O Cable

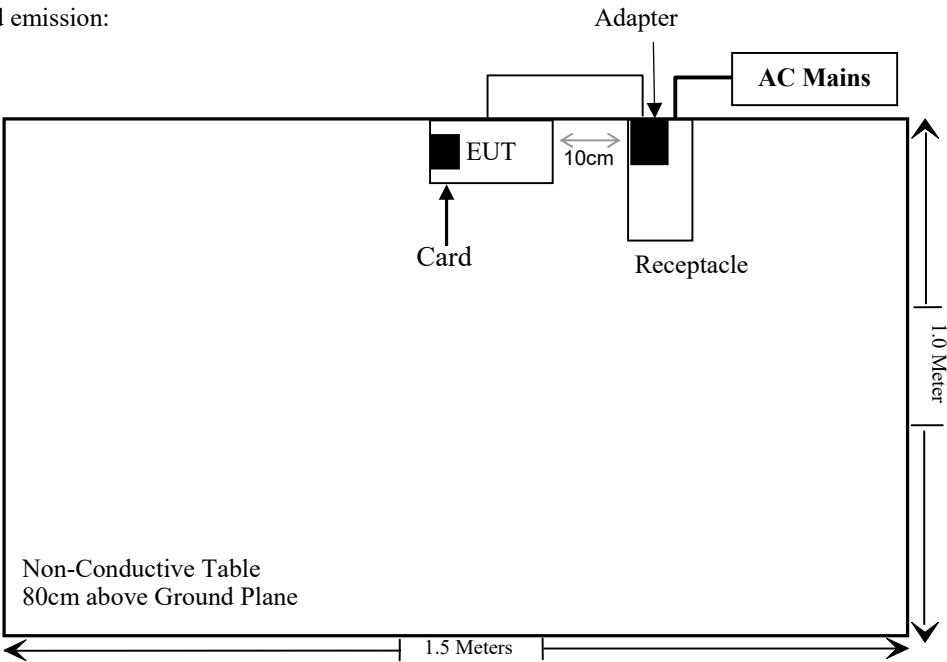
Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.0	EUT	Adapter

Block Diagram of Test Setup

For conducted emission:



For radiated emission:



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
§15.225 §15.209§15.205	Radiated Emission Test	Compliant
§15.225(e)	Frequency Stability	Compliant
§15.215(c)	20dB Emission Bandwidth	Compliant

TEST EQUIPMENT LIST

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
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2022/12/07	2023/12/06
Unknown	RF Coaxial Cable	No.17	N0350	2022/11/25	2023/11/24
Conducted Emission Test Software: e3 19821b (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
Schwarzbeck	LOOP ANTENNA	FMZB1516	1516131	2021/12/22	2024/12/21
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
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 19821b (V9)					
FREQUENCY STABILITY					
Rohde& Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24
Schwarzbeck	LOOP ANTENNA	FMZB1516	1516131	2021/12/22	2024/12/21
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24
Fluke	Multi Meter	45	7664009	2022/11/23	2023/11/22
Manson	DC Power Source	KPS-6604	ATCS-205	NCR	NCR
BACL	Temp. & Humid. Chamber	BTH-150-40	30192	2023/02/09	2024/02/08

*** 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 D01 General RF Exposure Guidance v06, clause 4.3. General SAR test exclusion guidance:

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f_{\text{(MHz)}})]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

For worst case:

The SAR Exclusion Threshold Level for 13.56MHz when the minimum test separation distances ≤ 50 mm:

$$= [474 * (1 + \log(100/f_{\text{(MHz)}}))] / 2 = 443\text{mW}$$

Use the maximum E-field strength (58.41dBuV/m @ 3m) for the RF exposure evaluation

$$E[\text{dB } \mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 \text{ for distance 3m, so the EIRP} = 58.41\text{dBuV/m} - 95.2 = -36.79\text{dBm}$$

The maximum tune-up power = -36 dBm = 0.0003mW, which less than 443mW@13.56MHz Exclusion Threshold Level.

So the stand-alone SAR evaluation can be exempted.

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 Connected Construction

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

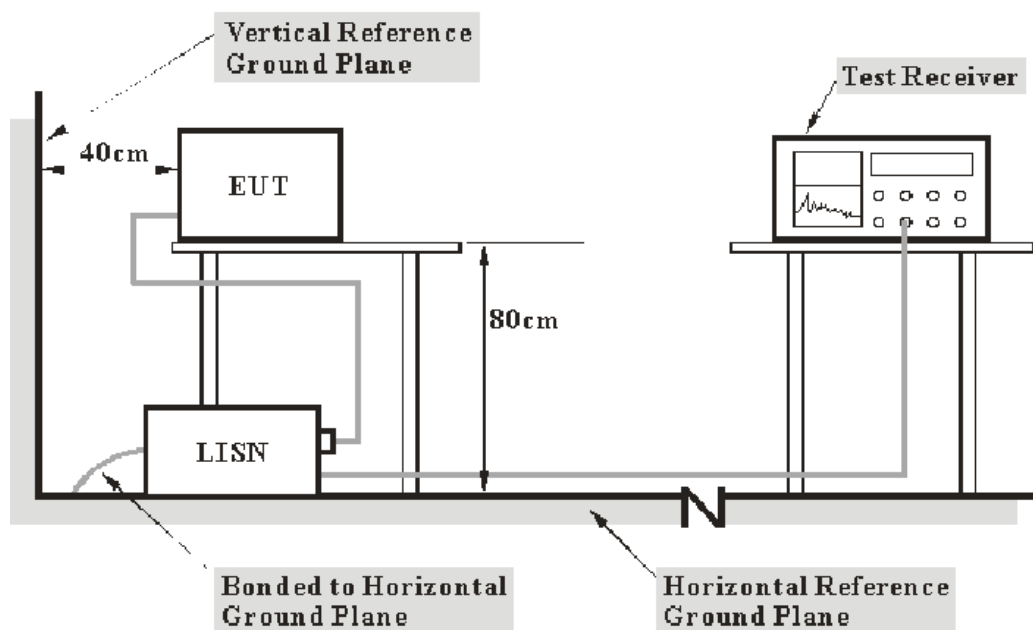
Result: Compliant.

FCC §15.207 – AC LINE CONDUCTED EMISSION

Applicable Standard

FCC§15.207

EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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 30MHz.

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

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

Test Procedure

During the conducted emission test, the adapter of Host 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.

Transd Factor & Margin Calculation

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

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

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

$$\begin{aligned}\text{Over limit} &= \text{Result} - \text{Limit} \\ \text{Result} &= \text{reading level} + \text{Transd Factor}\end{aligned}$$

Test Data

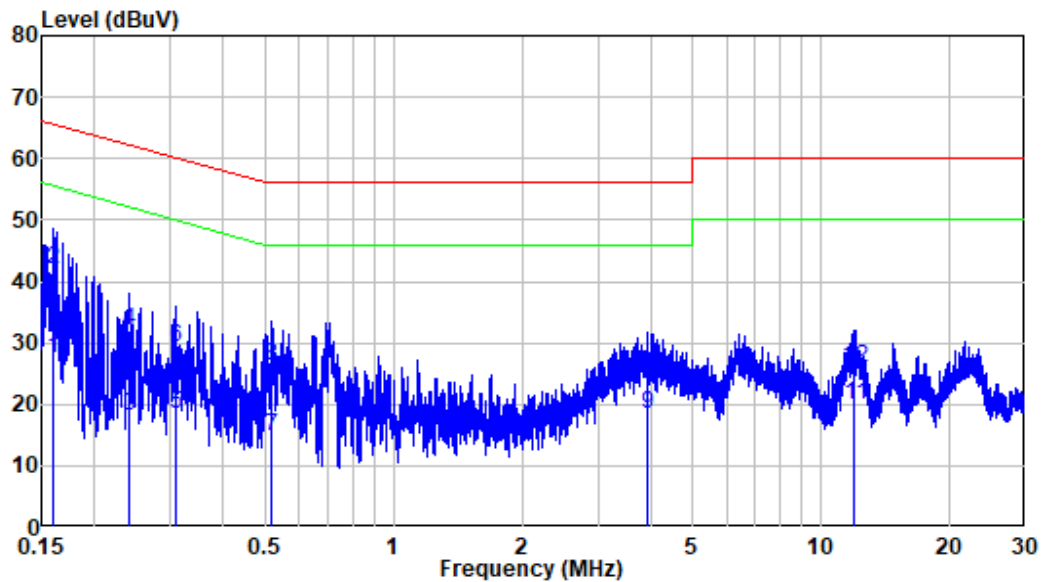
Environmental Conditions

Temperature:	23 °C
Relative Humidity:	49 %
ATM Pressure:	101.2 kPa

The testing was performed by Jerry Wu on 2023-05-05.

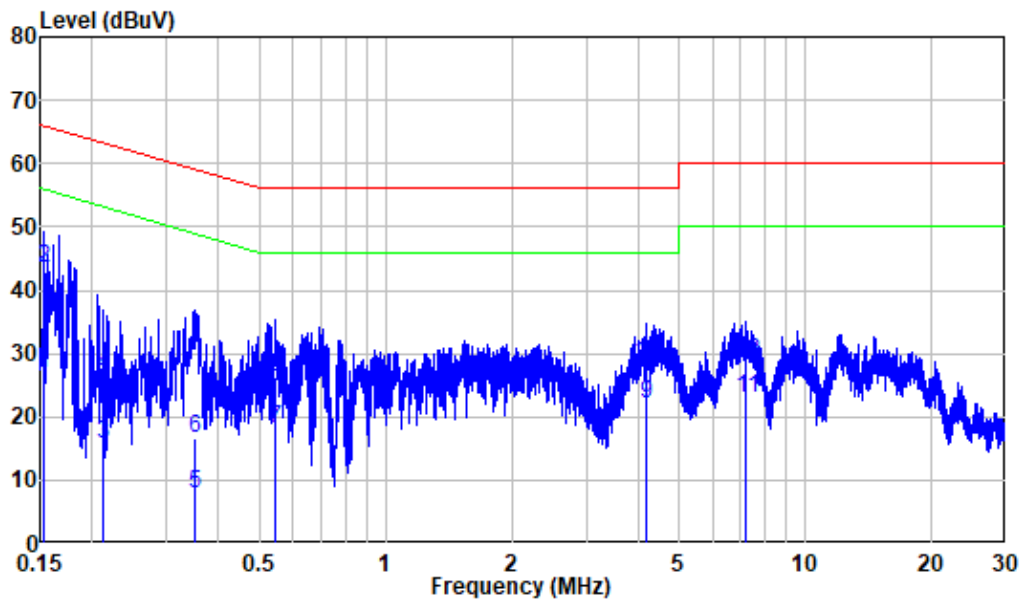
Test mode: Transmitting

AC 120V/60 Hz, Line



Site : Shielding Room
Condition: Line
Job No. : RA230509-25068E-RF
Mode : NFC Transmitting
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.160	10.40	17.02	27.42	55.44	-28.02	Average
2	0.160	10.40	31.71	42.11	65.44	-23.33	QP
3	0.240	10.40	7.64	18.04	52.09	-34.05	Average
4	0.240	10.40	21.55	31.95	62.09	-30.14	QP
5	0.310	10.40	7.95	18.35	49.97	-31.62	Average
6	0.310	10.40	18.80	29.20	59.97	-30.77	QP
7	0.520	10.43	4.33	14.76	46.00	-31.24	Average
8	0.520	10.43	15.81	26.24	56.00	-29.76	QP
9	3.922	10.54	7.84	18.38	46.00	-27.62	Average
10	3.922	10.54	14.48	25.02	56.00	-30.98	QP
11	11.957	10.31	9.65	19.96	50.00	-30.04	Average
12	11.957	10.31	15.56	25.87	60.00	-34.13	QP

AC 120V/60 Hz, Neutral

Site : Shielding Room
 Condition: Neutral
 Job No. : RA230509-25068E-RF
 Mode : NFC Transmitting
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.153	10.41	16.51	26.92	55.83	-28.91	Average
2	0.153	10.41	33.15	43.56	65.83	-22.27	QP
3	0.213	10.49	5.18	15.67	53.10	-37.43	Average
4	0.213	10.49	16.16	26.65	63.10	-36.45	QP
5	0.349	10.44	-2.73	7.71	48.98	-41.27	Average
6	0.349	10.44	6.24	16.68	58.98	-42.30	QP
7	0.547	10.44	7.76	18.20	46.00	-27.80	Average
8	0.547	10.44	15.88	26.32	56.00	-29.68	QP
9	4.185	10.44	11.71	22.15	46.00	-23.85	Average
10	4.185	10.44	17.99	28.43	56.00	-27.57	QP
11	7.237	10.48	12.40	22.88	50.00	-27.12	Average
12	7.237	10.48	18.06	28.54	60.00	-31.46	QP

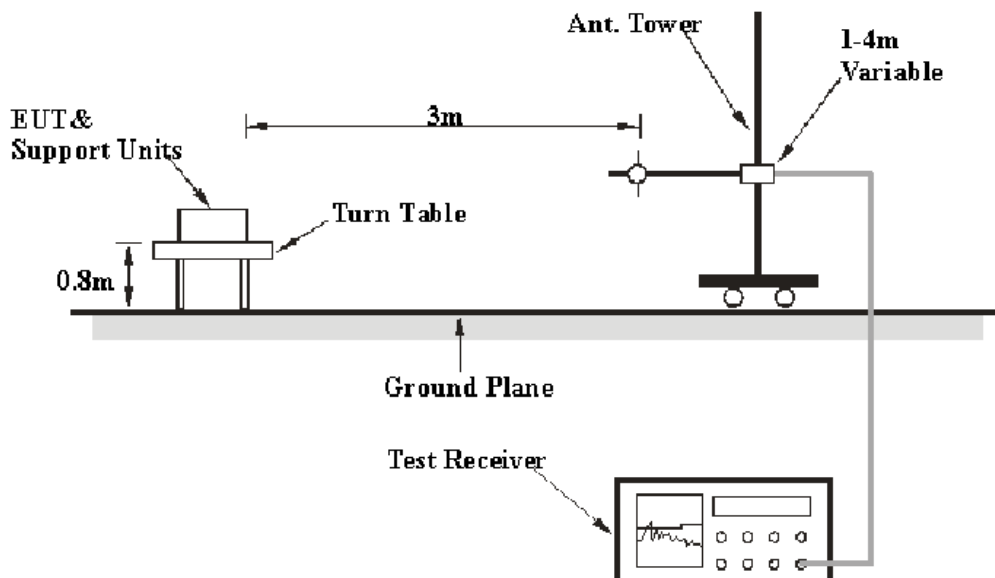
FCC§15.225, §15.205& §15.209 - RADIATED EMISSIONS TEST

Applicable Standard

As per FCC Part 15.225

- (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

EUT Setup



Note: Antenna is set up at 1m during test for below 30MHz.

The radiated emission tests were performed in the 3-meter chamber a test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.

EMI Test Receiver Setup

According to FCC Rules, 47 CFR 15.33, the EUT emissions were investigated up to 1000 MHz

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

Frequency Range	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	300 Hz	1kHz	/	PK
150 kHz –30MHz	10 kHz	30 kHz	/	PK
30MHz – 1000 MHz	100 kHz	300 kHz	/	PK

Corrected Factor& Margin Calculation

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

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

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

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

Test Data

Environmental Conditions

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

The testing was performed by Jason Liu on 2023-05-22.

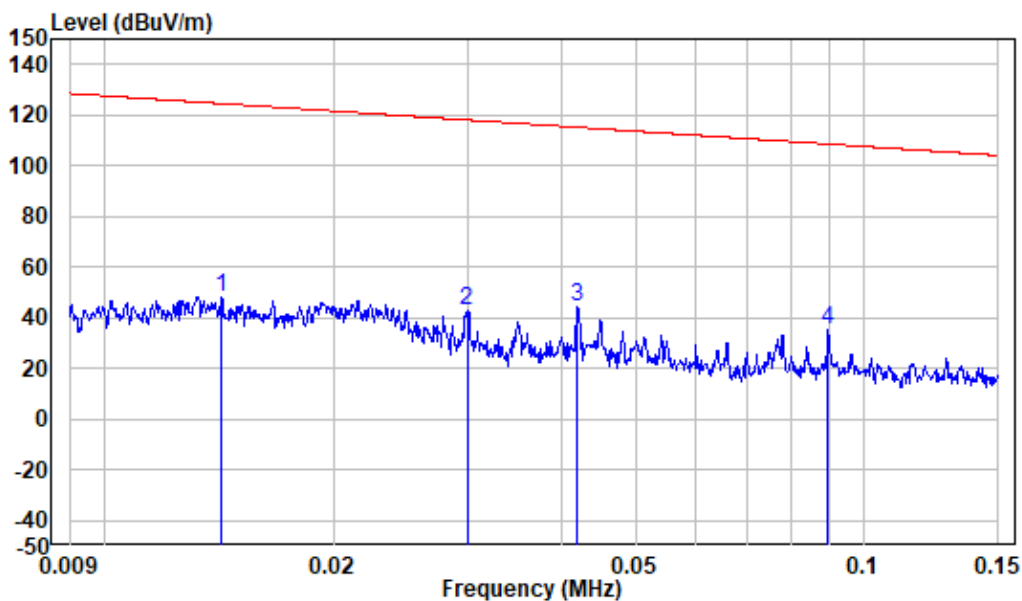
Test mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes of orientation was recorded)

Note: when the result of Peak below the limit of QP more than 6dB, just the peak value was record.

1) Spurious Emissions (9 kHz~30 MHz):

Part 15 Section 15.31(f)(2) (9kHz-30MHz)
Limit @ 3m=Limit @ 300m-40*log(3(m)/300(m))
Limit @ 3m=Limit @ 30m-40*log(3(m)/30(m))

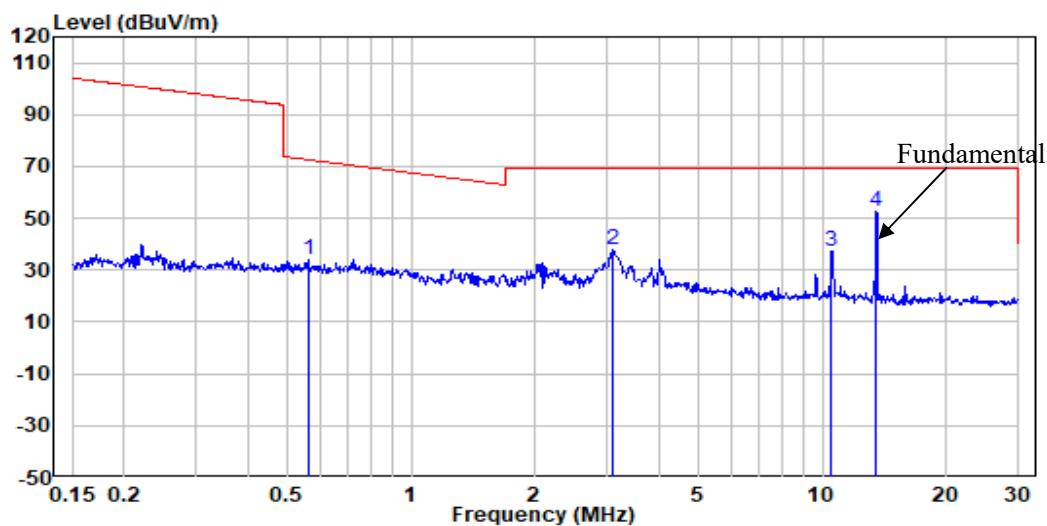
Ground-Parallel:
9 kHz~150 kHz



Site : chamber
Condition: 3m
Job No. : RA230509-25068E-RF
Test Mode: NFC
Note : Ground-parallel

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.014	-11.50	59.77	48.27	124.51	-76.24	Peak
2	0.030	-11.64	54.18	42.54	118.06	-75.52	Peak
3	0.042	-11.57	55.57	44.00	115.15	-71.15	Peak
4	0.090	-11.57	46.79	35.22	108.55	-73.33	Peak

150 kHz~30 MHz

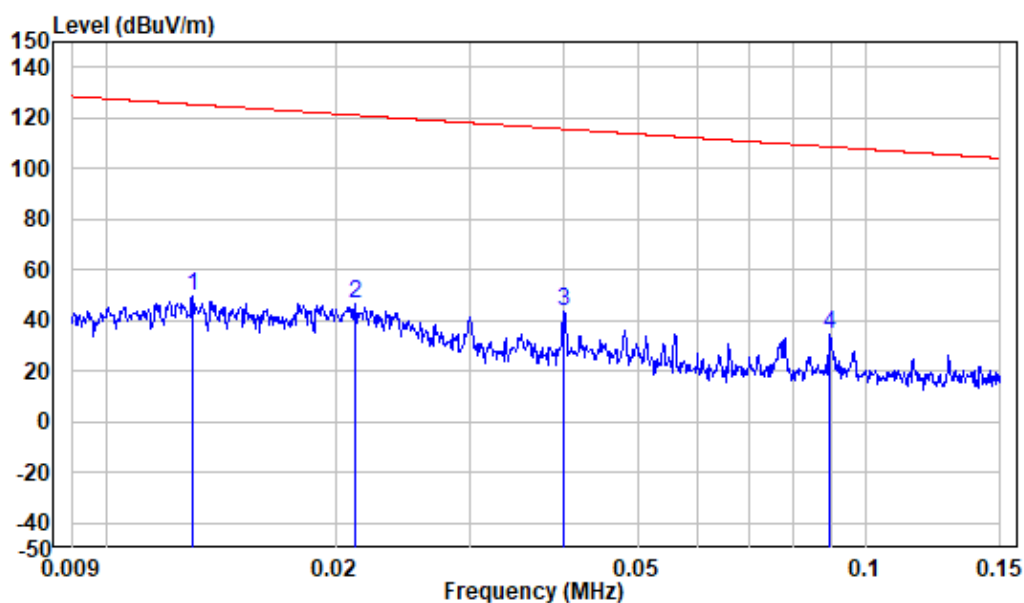


Site : chamber
Condition: 3m
Job No. : RA230509-25068E-RF
Test Mode: NFC
Note : Ground-parallel

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.561	-11.67	45.46	33.79	72.60	-38.81	Peak
2	3.090	-11.86	49.76	37.90	69.54	-31.64	Peak
3	10.508	-10.93	48.41	37.48	69.54	-32.06	Peak
4	13.551	-10.92	63.32	52.40	69.54	-17.14	Peak

Perpendicular:

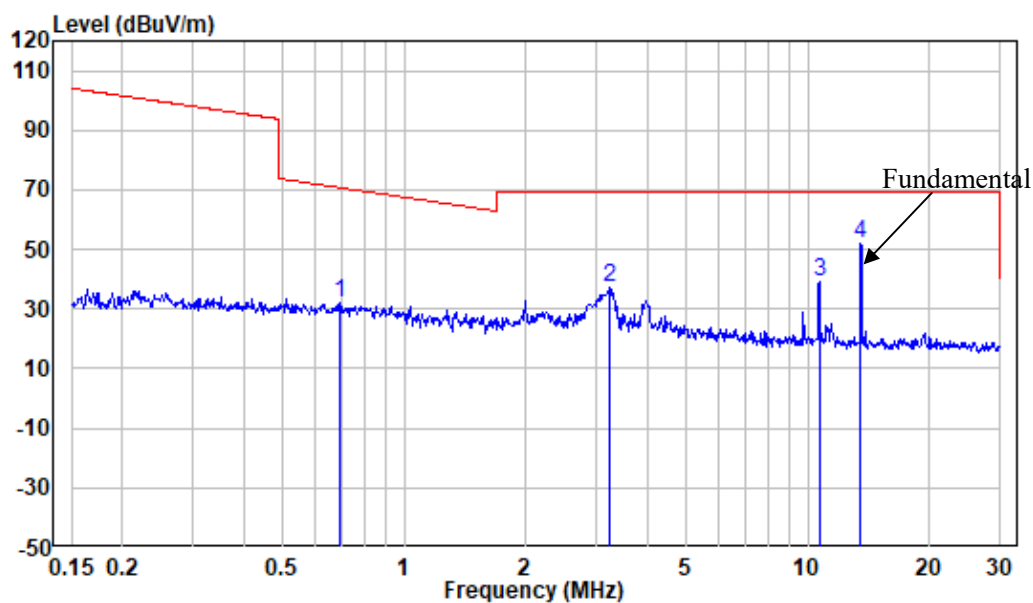
9 kHz~150 kHz



Site : chamber
Condition: 3m
Job No. : RA230509-25068E-RF
Test Mode: NFC
Note : Perpendicular

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.013	-11.46	60.73	49.27	125.34	-76.07	Peak
2	0.021	-11.69	58.16	46.47	121.07	-74.60	Peak
3	0.040	-11.59	54.87	43.28	115.57	-72.29	Peak
4	0.090	-11.57	45.86	34.29	108.55	-74.26	Peak

150 kHz~30 MHz

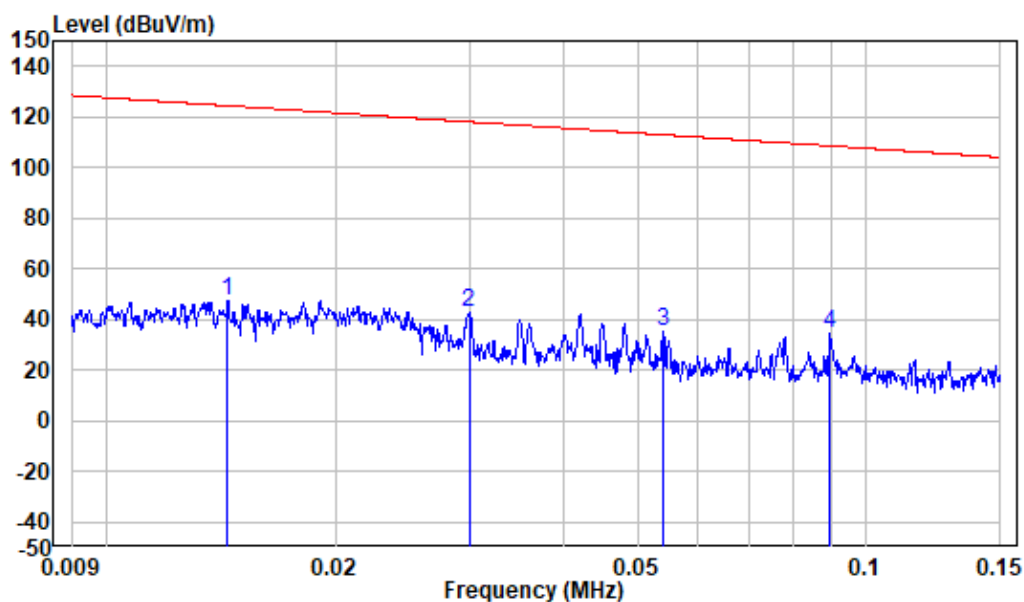


Site : chamber
Condition: 3m
Job No. : RA230509-25068E-RF
Test Mode: NFC
Note : Perpendicular

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.690	-11.85	43.96	32.11	70.77	-38.66	Peak
2	3.224	-11.84	48.96	37.12	69.54	-32.42	Peak
3	10.676	-10.92	49.88	38.96	69.54	-30.58	Peak
4	13.551	-10.92	62.99	52.07	69.54	-17.47	Peak

Parallel:

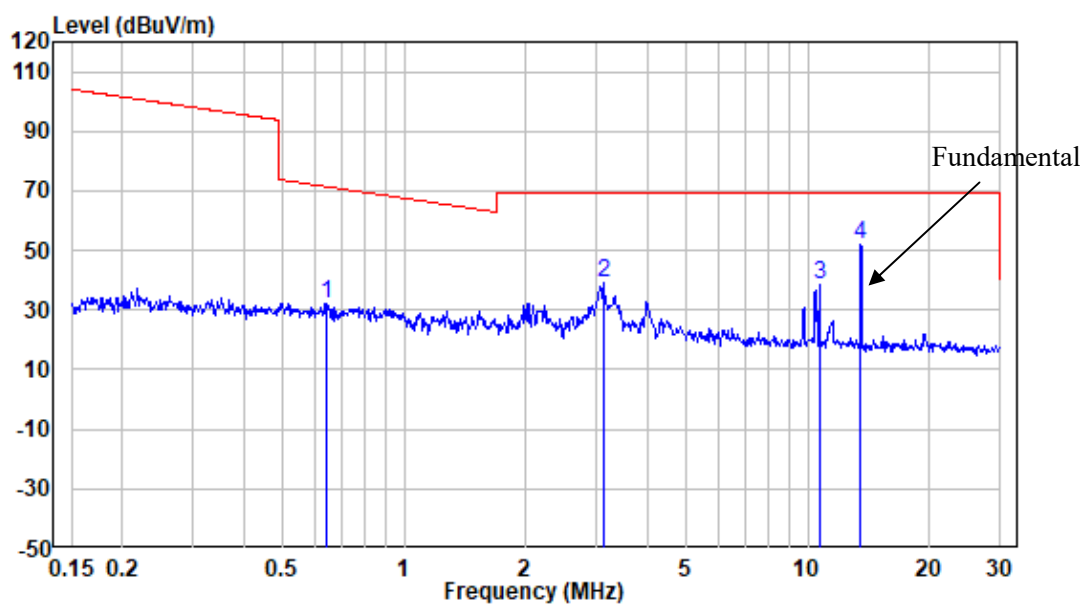
9 kHz~150 kHz



Site : chamber
Condition: 3m
Job No. : RA230509-25068E-RF
Test Mode: NFC
Note : Parallel

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.014	-11.50	58.57	47.07	124.41	-77.34	Peak
2	0.030	-11.64	54.69	43.05	118.06	-75.01	Peak
3	0.054	-11.54	46.88	35.34	112.95	-77.61	Peak
4	0.090	-11.57	45.73	34.16	108.55	-74.39	Peak

150 kHz~30 MHz

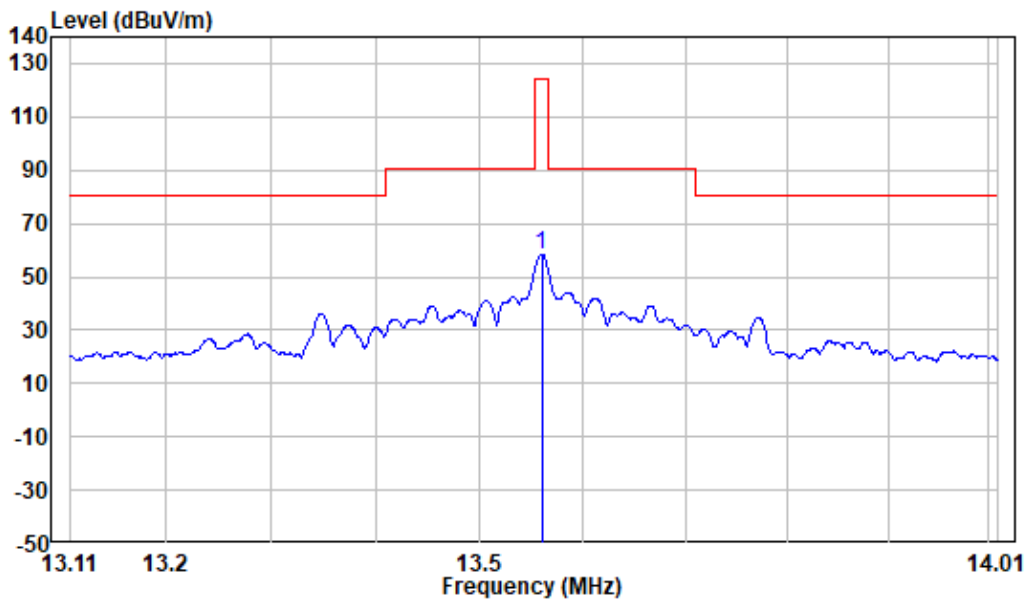


Site : chamber
Condition: 3m
Job No. : RA230509-25068E-RF
Test Mode: NFC
Note : Parallel

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.641	-11.77	43.81	32.04	71.42	-39.38	Peak
2	3.123	-11.86	50.89	39.03	69.54	-30.51	Peak
3	10.676	-10.92	49.23	38.31	69.54	-31.23	Peak
4	13.551	-10.92	62.87	51.95	69.54	-17.59	Peak

2) Emission Mask & Fundamental:

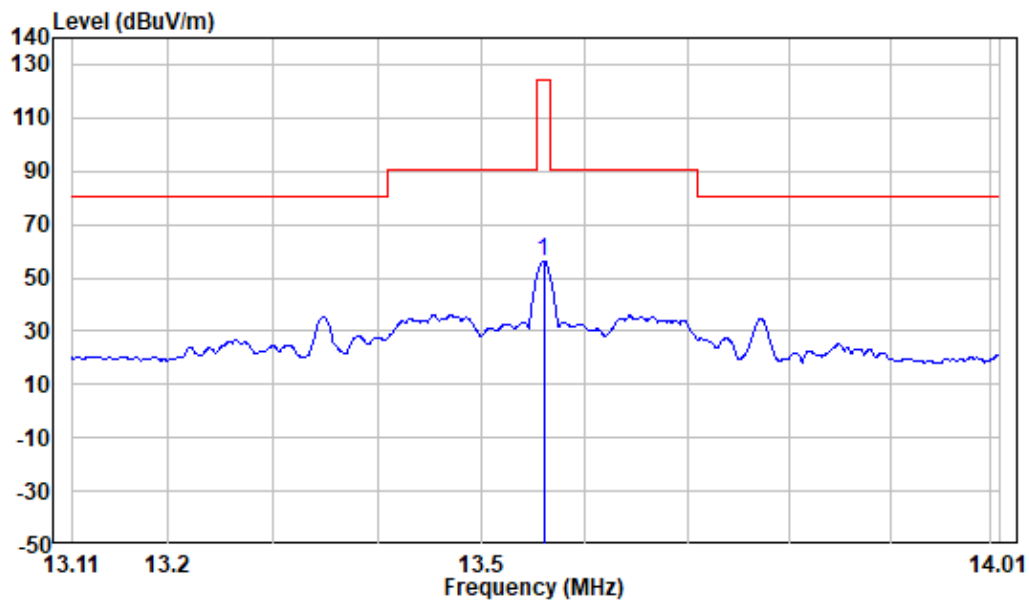
Ground-parallel



Site : chamber
Condition: 3m
Job No. : RA230509-25068E-RF
Test Mode: NFC
Note : Ground-parallel

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
			dBuV	dBuV/m	dBuV/m	dB
1	13.560	-10.92	69.33	58.41	124.00	-65.59 Peak

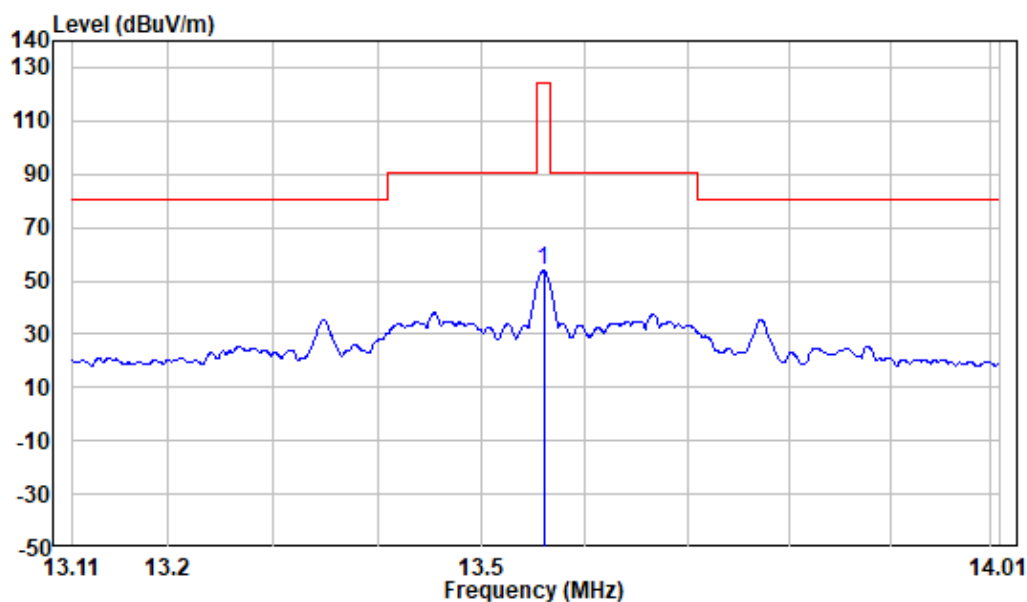
Perpendicular:



Site : chamber
Condition: 3m
Job No. : RA230509-25068E-RF
Test Mode: NFC
Note : Perpendicular

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
			dBuV	dBuV/m	dBuV/m	
1	13.560	-10.92	67.14	56.22	124.00	-67.78 Peak

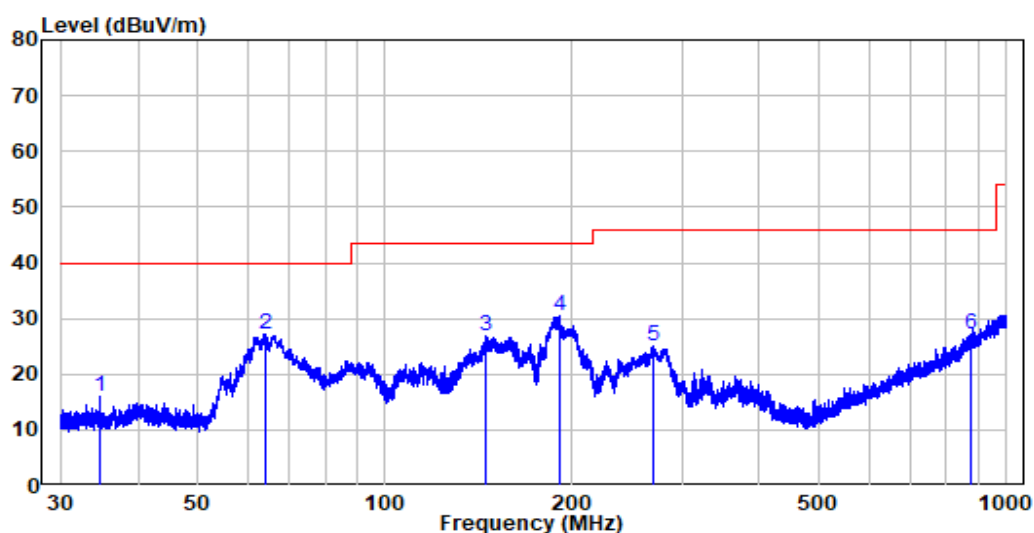
Parallel:



Site : chamber
Condition: 3m
Job No. : RA230509-25068E-RF
Test Mode: NFC
Note : Parallel

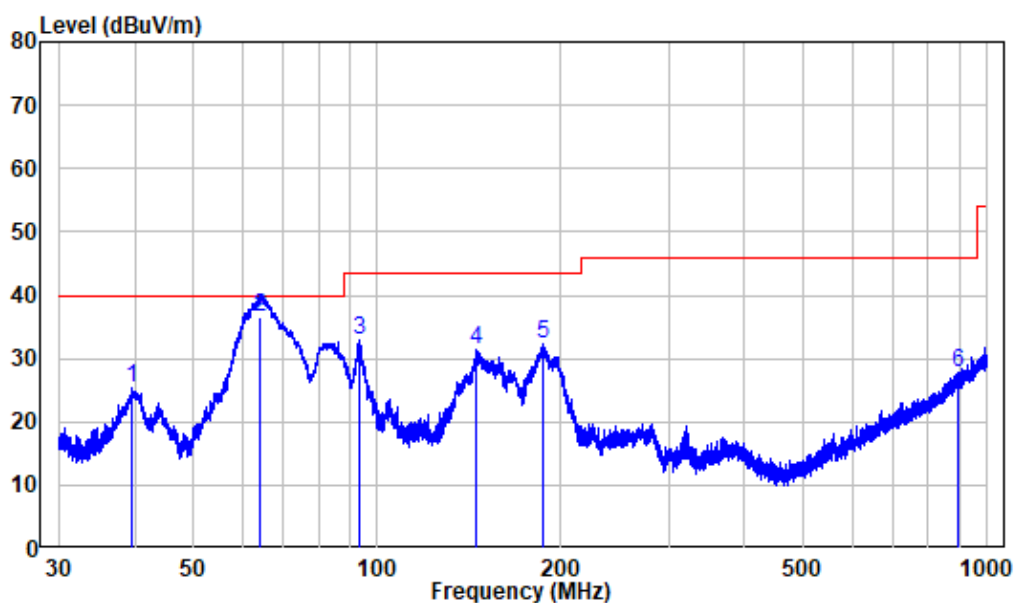
	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
			dBuV	dBuV/m	dBuV/m	dB
1	13.560	-10.92	64.78	53.86	124.00	-70.14 Peak

3) Spurious Emissions (30 MHz~1GHz):

Horizontal:

Site : chamber
Condition: 3m HORIZONTAL
Job No. : RA230509-25068E-RF
Test Mode: NFC

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	34.669	-14.45	30.51	16.06	40.00	-23.94	Peak
2	64.095	-13.75	41.05	27.30	40.00	-12.70	Peak
3	145.478	-10.51	37.28	26.77	43.50	-16.73	Peak
4	190.656	-10.27	40.74	30.47	43.50	-13.03	Peak
5	270.849	-14.70	39.76	25.06	46.00	-20.94	Peak
6	877.937	-1.43	28.53	27.10	46.00	-18.90	Peak

Vertical:

Site : chamber

Condition: 3m VERTICAL

Job No. : RA230509-25068E-RF

Test Mode: NFC

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.558	-14.36	39.76	25.40	40.00	-14.60	Peak
2	64.208	-13.75	50.40	36.65	40.00	-3.35	QP
3	93.277	-12.27	45.16	32.89	43.50	-10.61	Peak
4	145.160	-10.51	41.77	31.26	43.50	-12.24	Peak
5	186.850	-10.34	42.58	32.24	43.50	-11.26	Peak
6	897.390	-1.01	28.74	27.73	46.00	-18.27	Peak

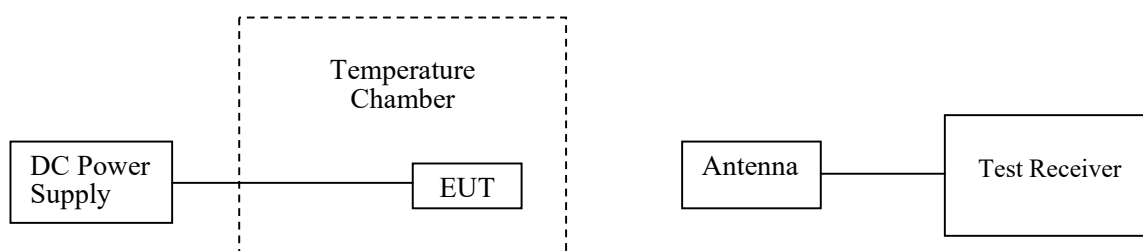
FCC§15.225(e) - FREQUENCY STABILITY

Applicable Standard

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test Procedure

Refer to the ANSI C63.10-2013 Section 6.8.



Test Data

Environmental Conditions

Temperature:	24.9°C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Jimi Zheng on 2023-06-06.

Test Mode: Transmitting

Test Result: Pass

Voltage Supply (V _{DC})	Temperature (°C)	Measured Frequency (MHz)	Frequency Error (%)	Limit (%)
N.V.	-20	13.559973	-0.00020	± 0.01
	-10	13.559988	-0.00009	± 0.01
	0	13.559942	-0.00043	± 0.01
	10	13.560002	0.00001	± 0.01
	20	13.559971	-0.00021	± 0.01
	30	13.559963	-0.00027	± 0.01
	40	13.559981	-0.00014	± 0.01
	50	13.559939	-0.00045	± 0.01
L.V.	20	13.559974	-0.00019	± 0.01
H.V.	20	13.559964	-0.00027	± 0.01

Note: the extreme voltage was declared by the applicant.

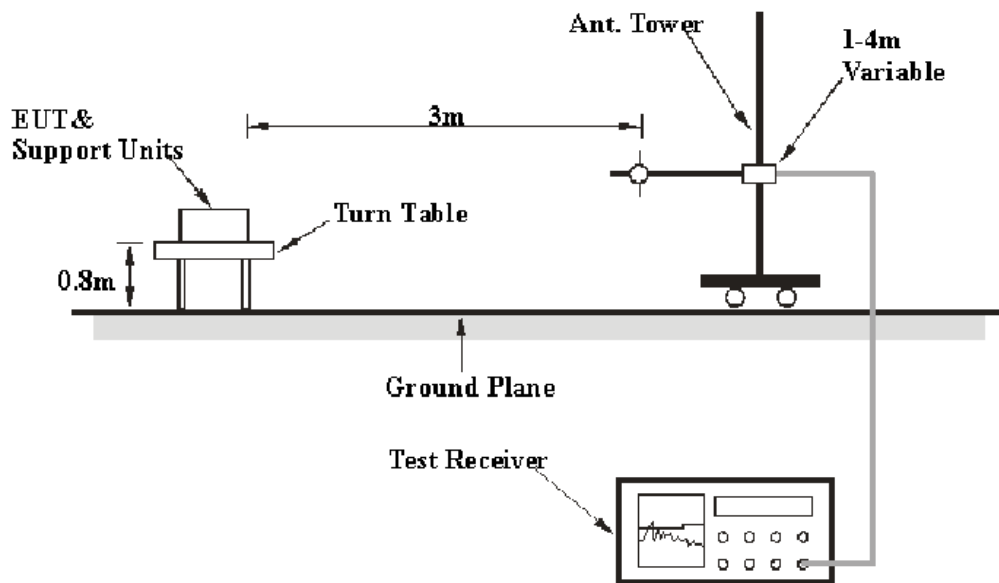
FCC§15.215(c) -20dBEMISSION BANDWIDTH

Requirement

Per 15.215 (c) 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. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Test Procedure

Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.



Test Data

Environmental Conditions

Temperature:	24.9 °C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

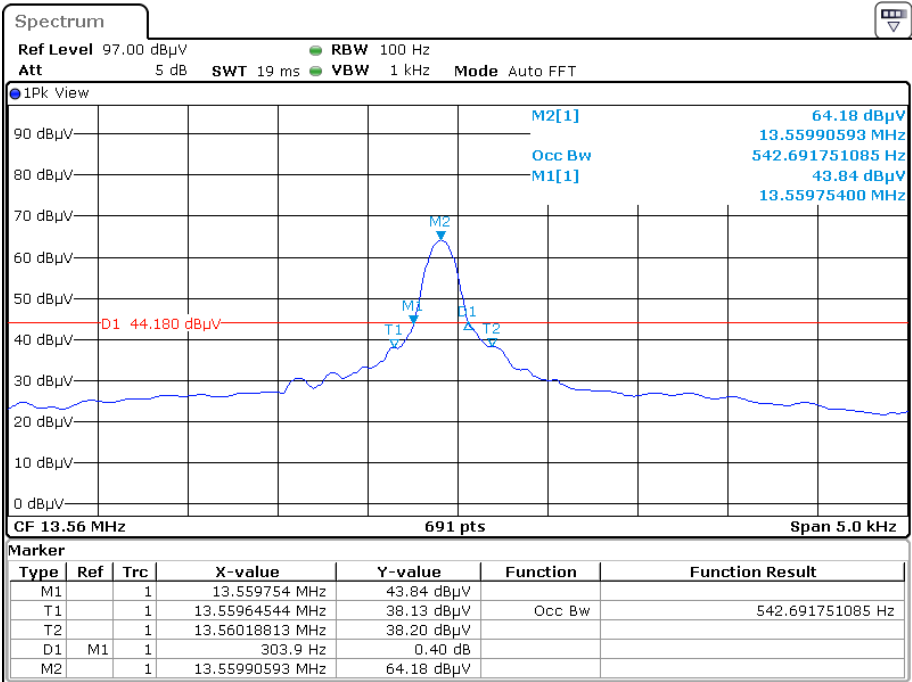
The testing was performed by Jimi Zheng on 2023-06-20.

Test Mode: Transmitting

Test Result: Pass

Test Frequency (MHz)	20dB Bandwidth (Hz)
13.56	304

20 dB Emission Bandwidth



Date: 20.JUN.2023 14:13:07

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