



FCC TEST REPORT

FCC ID: 2BSS6-VOOOOO

On Behalf of

Shenzhen Elyarchi Technology Co., Ltd.

Multi-material 3D printing

Model No.: Vooooo

Prepared for : Shenzhen Elyarchi Technology Co., Ltd.
Address : Room 301, Building 1, Tongkangfu Industrial Zone, Shiyan Subdistrict,
Bao'an District, Shenzhen City, Guangdong Province, China

Prepared By : Shenzhen PSI Testing Co., Ltd.
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Date of Report : November 17, 2025
Version Number : V0

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TEST REPORT DECLARATION

Applicant : Shenzhen Elyarchi Technology Co., Ltd.
Address : Room 301, Building 1, Tongkangfu Industrial Zone, Shiyan Subdistrict, Bao'an District, Shenzhen City, Guangdong Province, China
Manufacturer : Shenzhen Elyarchi Technology Co., Ltd.
Address : Room 301, Building 1, Tongkangfu Industrial Zone, Shiyan Subdistrict, Bao'an District, Shenzhen City, Guangdong Province, China
EUT Description : Multi-material 3D printing
(A) Model No. : V00000
(B) Trademark : N/A

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.225

RSS 210 Issue 11, RSS Gen Issue 5, ANSI C63.10-2020 + Cor.1-2023

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC Part 15C requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....: Felix Pang
Test Engineer 

Approved by (name + signature).....: Simple Guan
Project Manager 

Date of issue.....: November 17, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	November 17, 2025	Initial released Issue	Felix Pang



1. General Information

1.1. Description of Device (EUT)

Product Name : Multi-material 3D printing
Model No. : V00000
Diff : N/A
Power supply : DC 24V from Adapter with AC 120V/60Hz

Radio Technology : NFC

Operation frequency : 13.56MHz

Channel No. : 1 Channel

Modulation : ASK

Antenna Type : PCB Antenna, Antenna gain 0dBi.
Antenna information is provided by applicant.

Software version : V1.0

Hardware Version : V1.0

Note : Antenna information is provided by applicant.
Testing lab is not responsible for the accuracy of the information.

1.2. Accessories of Device (EUT)

Accessories : ADAPTER
Manufacturer : Shenzhen Huntkey Electric Co., Ltd
Model : HKA15024063-7C
Rating : INPUT:100-240V~60/50Hz 2A
OUTPUT:24V---6.25A, 150W

1.3. Ancillary Equipment Details

No.	Description	Manufacturer	Model	Serial Number
1	N/A	N/A	N/A	N/A

1.4. Test Lab Information

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission
Registration Number: 916281

September 21, 2023 Certificated by ISED
Registration Number: 31123
CAB identifier: CN0158

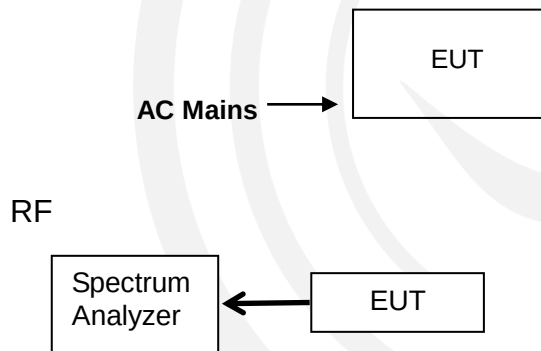
2. Summary of test

2.1. Summary of test result

Description of Test Item	Standard		Results
	FCC	IC	
Conducted Emission	15.207	RSS-GEN 8.8	PASS
Radiated emissions	15.209	RSS-Gen 8.9	PASS
Fundamental field strength limit	15.225	RSS 210 B.6	PASS
Frequency stability	15.225	RSS 210 B.6	PASS
20Db Emission Bandwidth	15.225	RSS 210 B.6	PASS
Antenna Requirement	15.203	RSS-GEN(6.8)	PASS

2.2. Block Diagram

Spurious Emission&Power Line Conducted Emission



2.3. Test mode

Tested mode, channel, and data rate information		
Mode	Channel	Frequency(MHz)
1	CH1	13.56
Note: According exploratory test, EUT will have maximum output power in those data rate. So those data rate were used for all test.		

2.4. Test Conditions

Items	Required	Actual
Temperature range	15-35℃	0℃ and 40℃
Humidity range	20-75%	20-75%
Pressure range	86-106kPa	86-106kPa

2.5. Measurement Uncertainty (95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	2.13dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	4.07dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	4.51dB
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 18GHz)	5.07dB
Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz)	5.21dB
Uncertainty for radio frequency	48.24KHz
Uncertainty for conducted RF Power	0.41dB
Uncertainty for Power Spectral Density	0.39 dB



2.6. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2022.12.20	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2024.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV 216	102282	/	2024.12.18	1 Year
4.	L.I.S.N.#2	EMCO	3810-2	00094944	/	2024.12.18	1 Year
5.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2025.01.02	2 Year
6.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2025.01.02	2 Year
7.	Spectrum Analyzer	Rohde&Schwarz	FSV40-N	101648	3.70	2024.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
9.	Amplifier	SKET	LNPA_0118 G-50	SK20220329 01	/	2024.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
11.	Amplifier	SKET	LNPA_1840 G-50	SK20190403 02	/	2024.12.18	1 Year
12.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.0 2-1111533-Fz	/	2024.12.18	1 Year
13.	RF Sensor Unit	Tachoy	TR1029-2	20220428P0 08	/	2024.12.18	1 Year
14.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2024.12.18	1 Year
15.	Temp. & Humid Chamber	Auchno	9606	/	/	2024.12.18	1 Year
16.	Regulated DC Power Supply	Xinouhua	ADC120V10 A	2022112516 38	/	2024.12.18	1 Year
17.	Cable	SKET	Cable-RE-1	#02/#03	/	2024.12.18	1 Year
18.	Cable	SKET	Cable-RE-2	#01	/	2024.12.18	1 Year
19.	Cable	SKET	Cable-RE-3	#04	/	2024.12.18	1 Year
20.	Cable	SKET	Cable-CE-1	A-E-24	/	2024.12.18	1 Year
21.	6dB Attenuator	Schwarzbeck	DGA 9552N 6dB	CK4186	/	2024.12.18	1 Year
22.	Power meter	Agilent	E4419B	GB40202121	/	2024.12.18	1 Year
23.	Comprehensive Test Instrument	Rohde&Schwarz	CMW 500	145266	/	2024.12.18	1 Year
For Test Software Information							
Item	Software Name	Manufacturer			Version		
RE	EZ EMC	Farad			PSI-3A1		
CE	EZ EMC	Farad			PSI-3A1		

3. Occupied bandwidth and 20dB Bandwidth

3.1. Limit

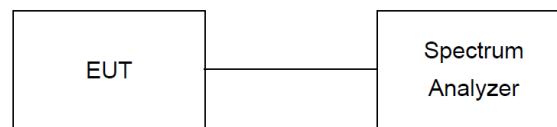
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in RSS-Gen§6.7, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

3.2. Test Procedure

bandwidth of the fundamental frequency was measured by spectrum analyzer with 300Hz RBW and 1kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

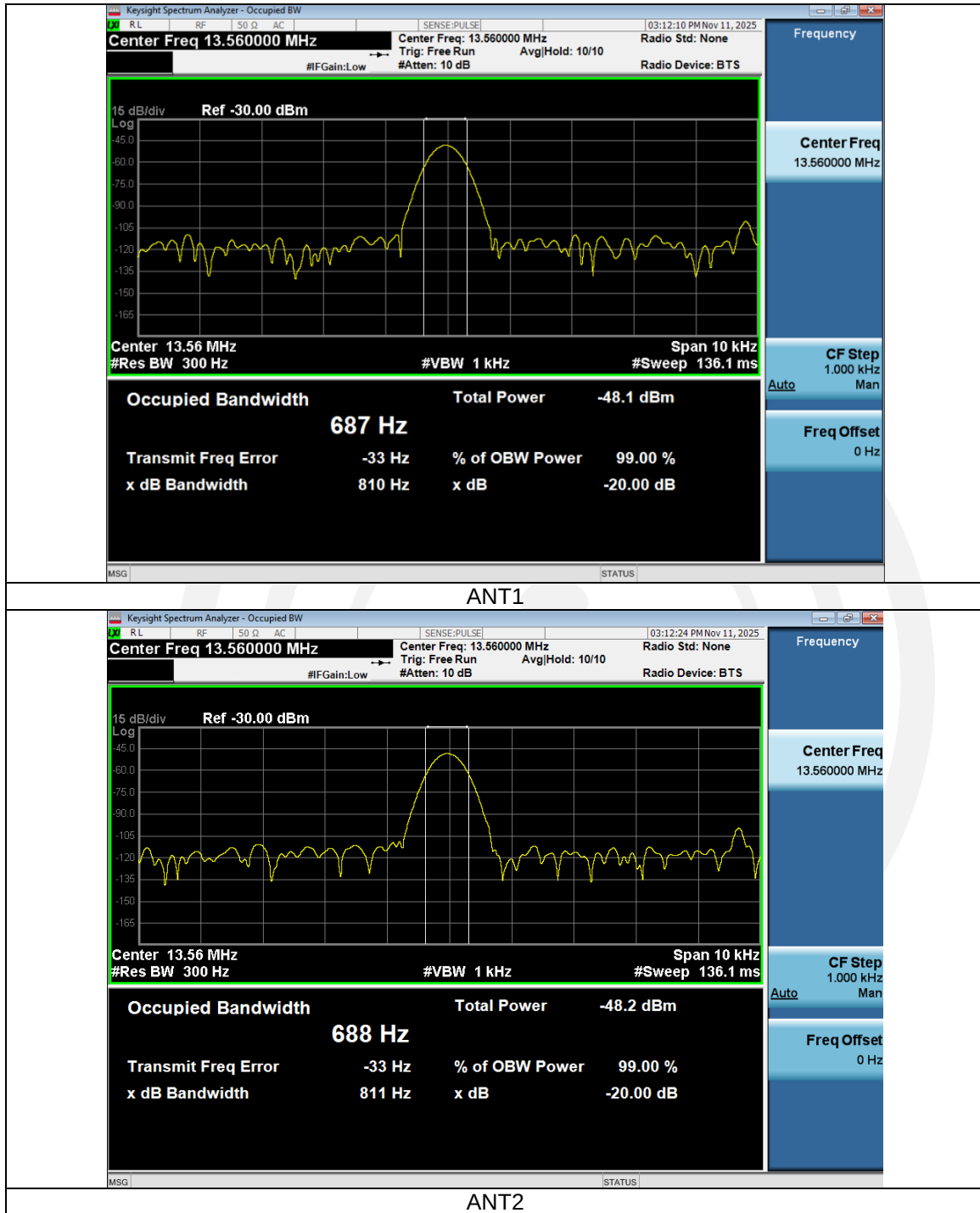
2. The test receiver set RBW =1-5%BW, VBW≥3*RBW, Sweep time set auto, detail see the test plot for 99% Bandwidth.

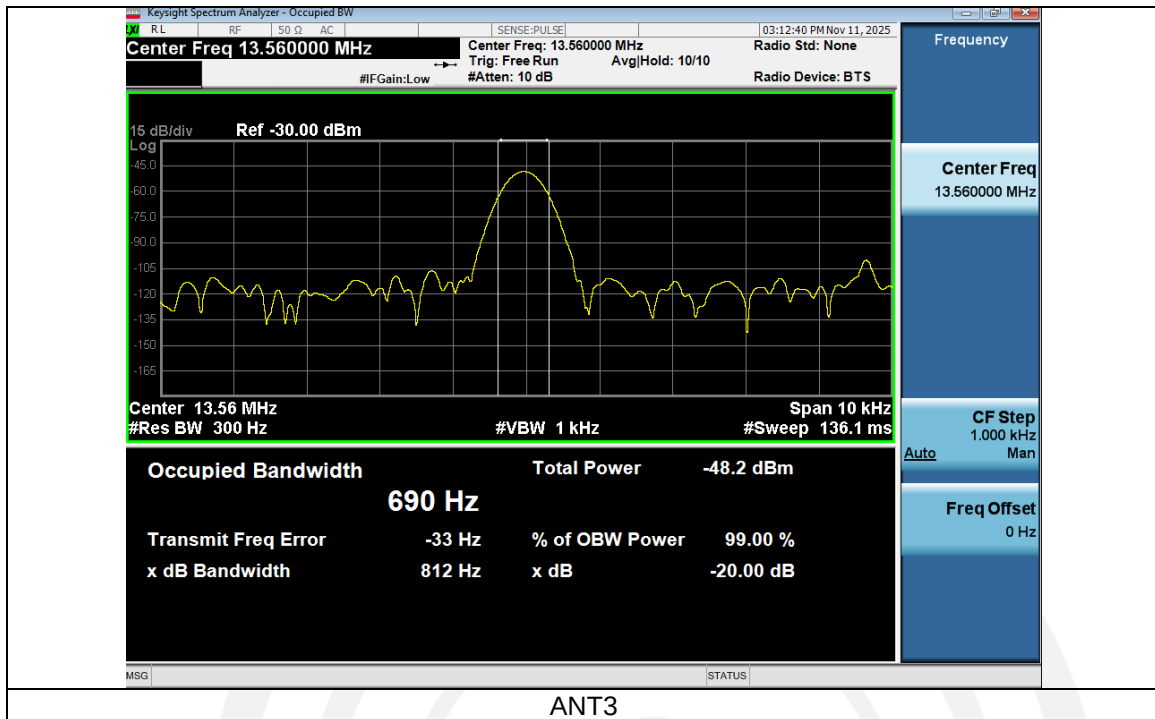
3.3. Test Setup



3.4. Test Result

Mode	Freq (MHz)	20dB Bandwidth (KHz)	99% Bandwidth	Limit (kHz)	Conclusion
ANT1	13.56	0.810	0.687	N/A	PASS
ANT2	13.56	0.811	0.688	N/A	PASS
ANT3	13.56	0.812	0.690	N/A	PASS





Note: The measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300Hz and VBW is set to 1KHz to perform the occupied bandwidth test.

4. Radiated emissions

4.1. Limit

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Note:

- a) The tighter limit applies at the band edges.

For example: F.S limit at 88MHz is 100uV/m

- b) If measurement is made at 3m distance, then F.S Limit at 3m distance is adjusted by using the formula of $L_{d1} = L_{d2} * (d2/d1)^2$.

For example:

F.S Limit at 30m(d2) distance is 30uV/m(L_{d2}), then F.S Limit at 3m(d1) distance is

$$L_{d1} = 30\text{uV/m} * (30/3)^2 = 100 * 30\text{uV/m} = 69.54 \text{ dBuV/m}$$

- (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.

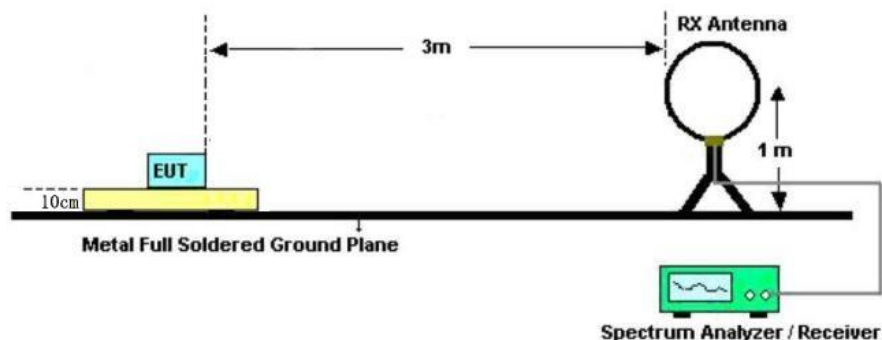
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

- (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.

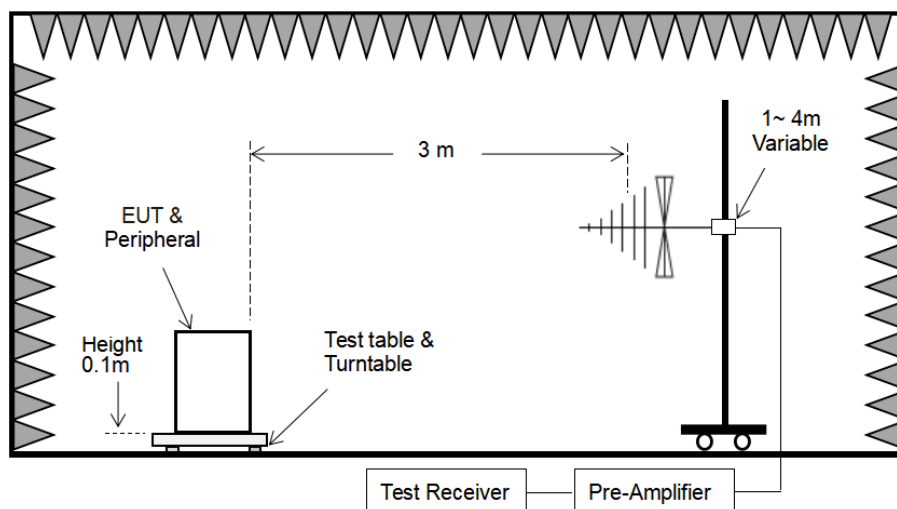
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

4.2. Block Diagram of Test setup

In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



In 3m Anechoic Chamber Test Setup Diagram for frequency 30MHz-1GHz



4.3. Test Procedure

Procedure of Preliminary Test

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 10cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 4.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2020.

Mains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.

The antenna was placed at 3 meter away from the EUT as stated in ANSI C63.10:2020. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.

The Receiver quickly scanned from 9KHz to 30MHz and 30MHz to 1GHz The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

The test mode(s) described in clause 2.4 were scanned during the preliminary test:

After the preliminary scan, we found the test mode producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

The Receiver scanned from 9KHz to 30MHz and 30MHz to 1GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is

presented.

The test data of the worst-case condition(s) was recorded.

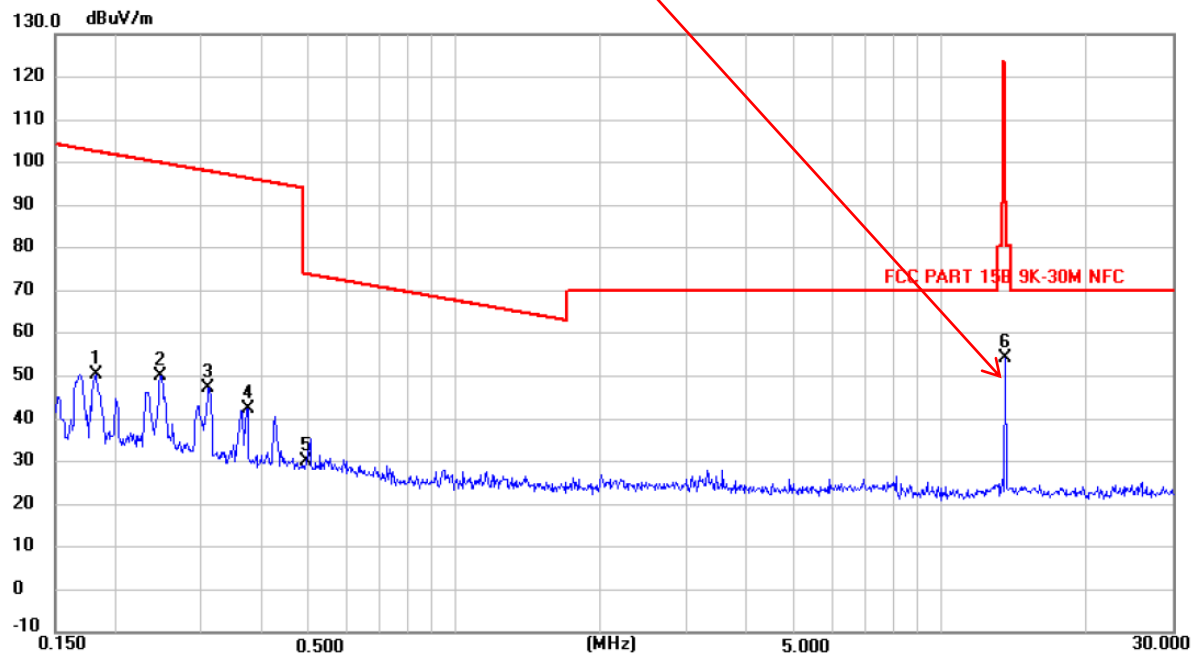
The bandwidth of test receiver is set at 200Hz for 9 KHz to 150 KHz measure, 10 KHz for 150 KHz to 30MHz measure and 120 KHz for 30 MHz to 1GHz measure.

4.4. Test Result

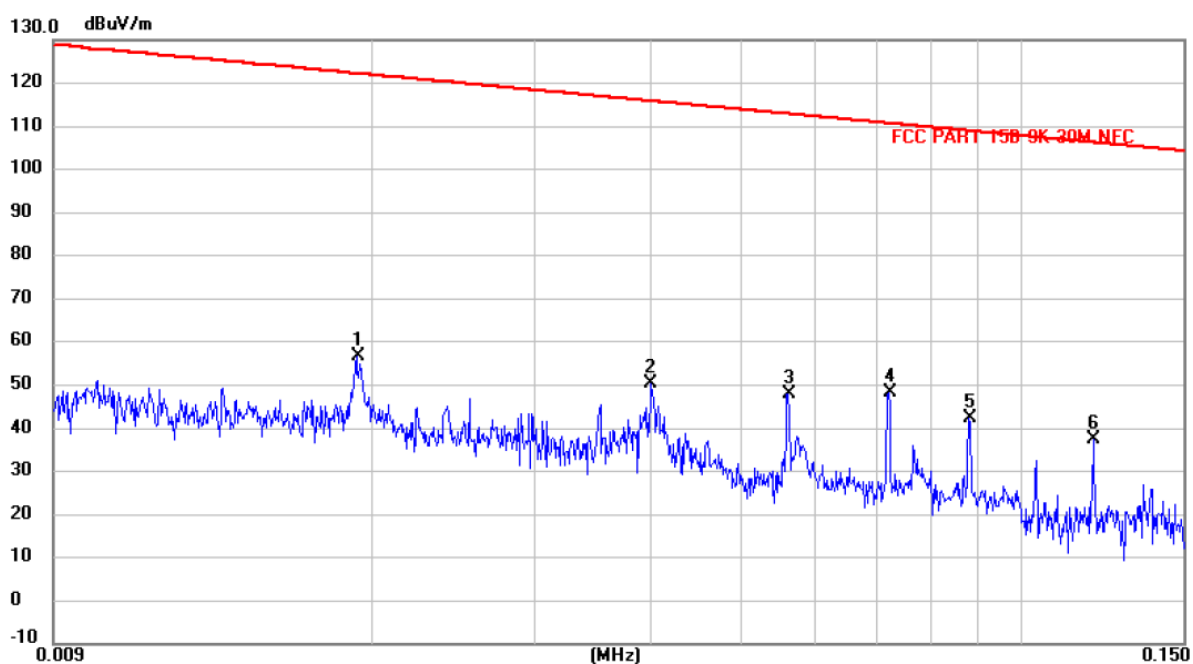
From 9KHz to 30MHz:	
Test Date : 2025.11.11	Temperature : 22.5°C
Test Engineer : Felix Pang	Humidity : 55%
Test Mode : NFC	
Test Voltage : AC 120V/60Hz	
Test Results : PASS	
Note: 1. The test results are listed in next pages. 2. This mode is worst case mode, so this report only reflected the worst mode. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.	

Polarization: Coaxial

Fundamental



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1822	30.22	20.28	50.50	102.61	-52.11	peak
2	0.2480	29.82	20.25	50.07	99.93	-49.86	peak
3	0.3113	27.14	20.23	47.37	97.95	-50.58	peak
4	0.3734	22.16	20.21	42.37	96.37	-54.00	peak
5	0.4928	9.88	20.16	30.04	73.95	-43.91	peak
6 *	13.5688	34.16	20.02	54.18	90.50	-36.32	peak

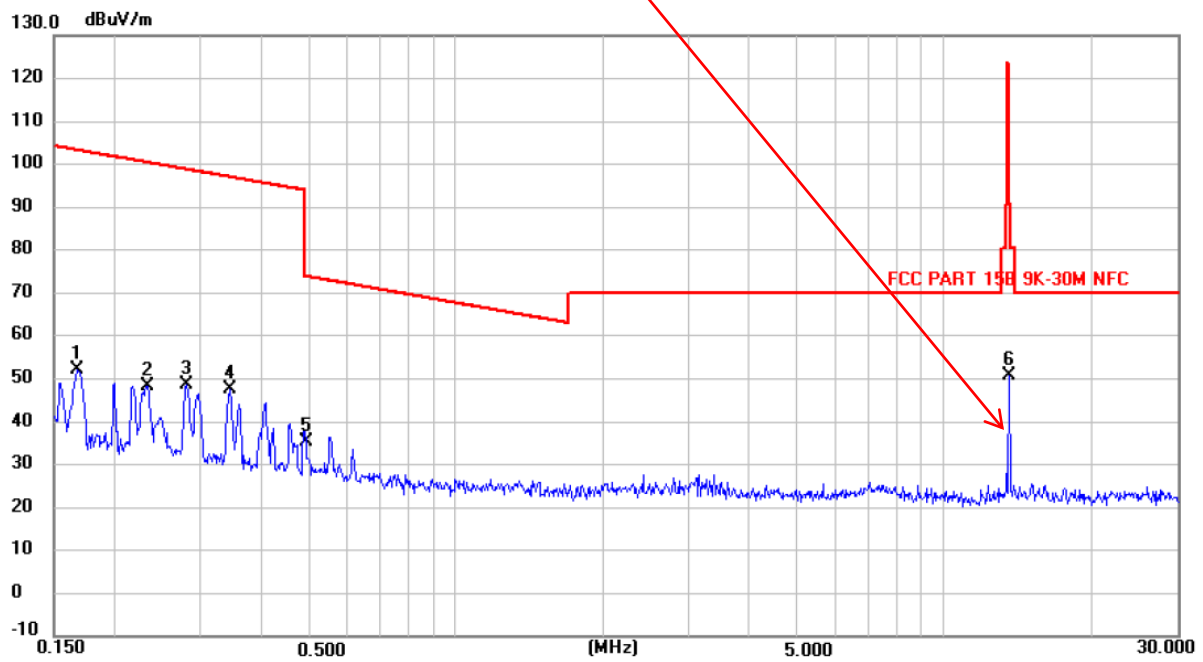


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0192	36.29	20.33	56.62	122.20	-65.58	peak
2	0.0400	29.84	20.38	50.22	115.81	-65.59	peak
3	0.0561	27.69	20.37	48.06	112.87	-64.81	peak
4 *	0.0721	27.82	20.35	48.17	110.68	-62.51	peak
5	0.0881	22.08	20.34	42.42	108.94	-66.52	peak
6	0.1200	17.17	20.31	37.48	106.25	-68.77	peak

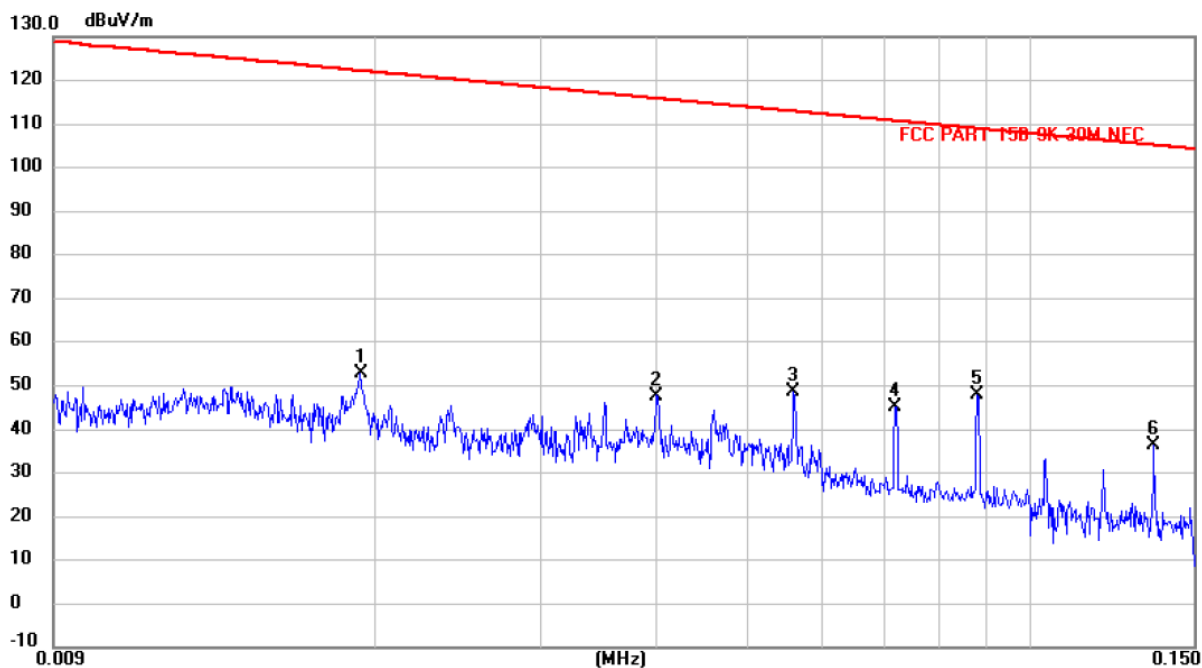
Note: Level = Reading + Factor Margin = Level - Limit

Polarization: Coplane

Fundamental



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1677	31.76	20.28	52.04	103.33	-51.29	peak
2	0.2336	27.96	20.26	48.22	100.45	-52.23	peak
3	0.2808	28.31	20.24	48.55	98.85	-50.30	peak
4	0.3440	27.32	20.22	47.54	97.08	-49.54	peak
5 *	0.4924	15.26	20.16	35.42	73.96	-38.54	peak
6	13.5688	30.64	20.02	50.66	90.50	-39.84	peak

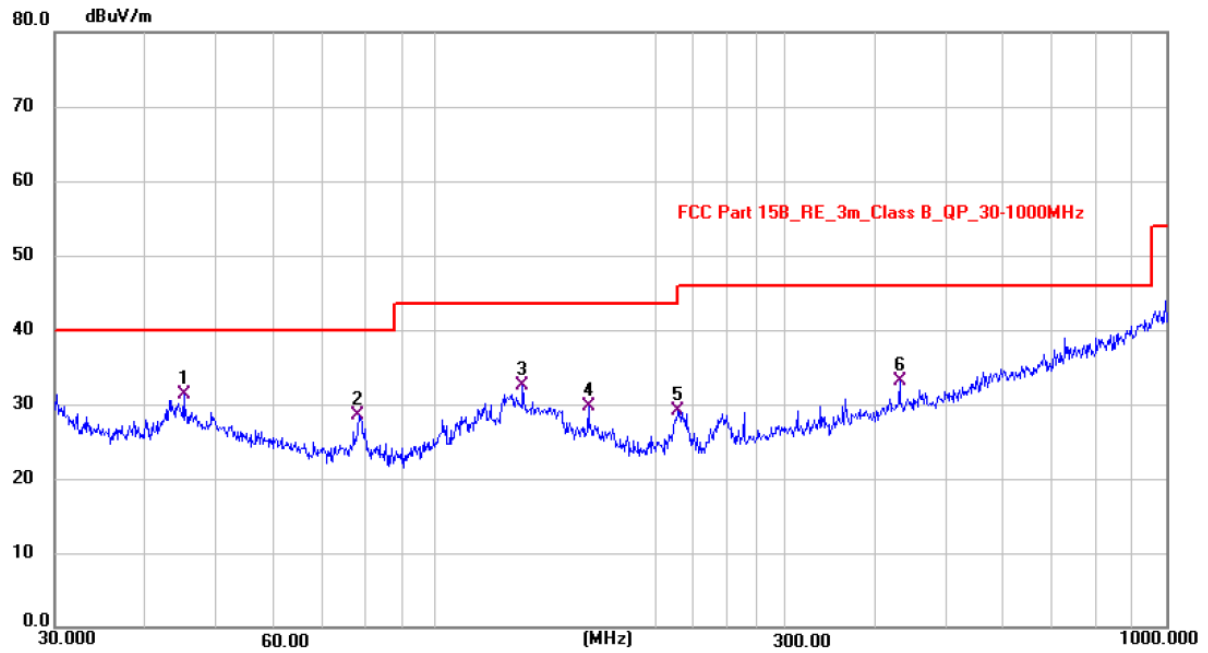


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0192	32.47	20.33	52.80	122.20	-69.40	peak
2	0.0400	27.37	20.38	47.75	115.81	-68.06	peak
3	0.0560	28.15	20.37	48.52	112.88	-64.36	peak
4	0.0720	24.85	20.35	45.20	110.70	-65.50	peak
5 *	0.0880	27.50	20.34	47.84	108.95	-61.11	peak
6	0.1360	15.93	20.30	36.23	105.16	-68.93	peak

Note: Level = Reading + Factor Margin = Level - Limit

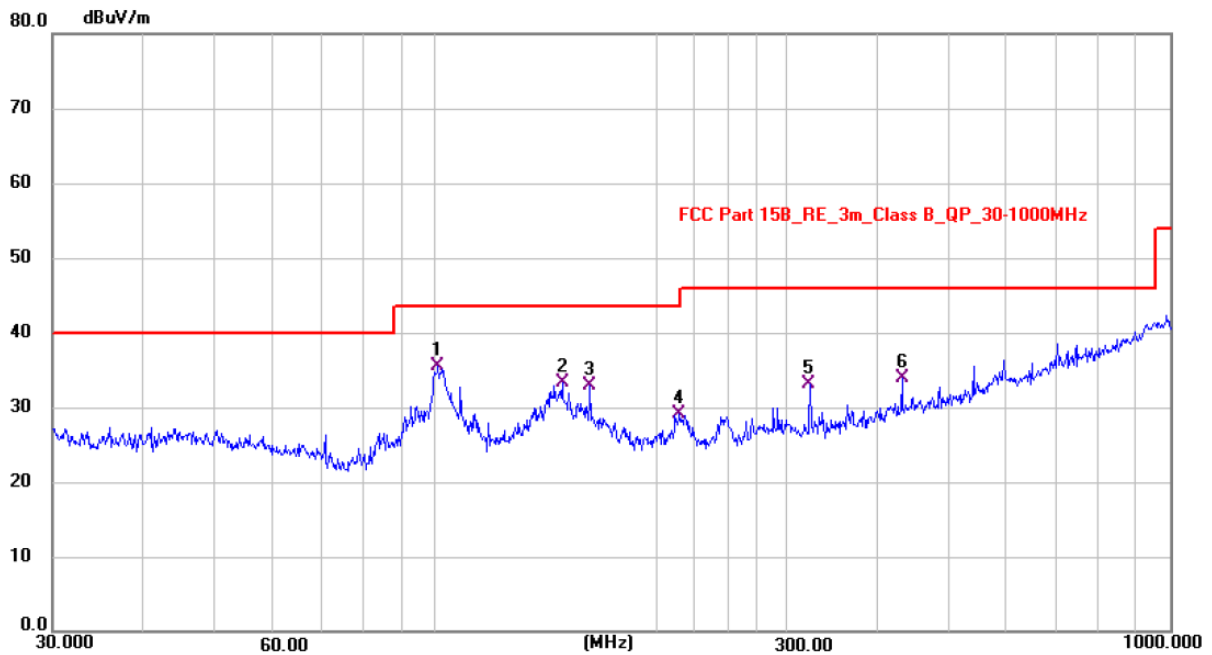
From 30MHz to 1000MHz:	
Test Date : 2025.11.11	Temperature : 22.5°C
Test Engineer : Felix Pang	Humidity : 55%
Test Mode : NFC	
Test Results : PASS	
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.



Polarization: Vertical

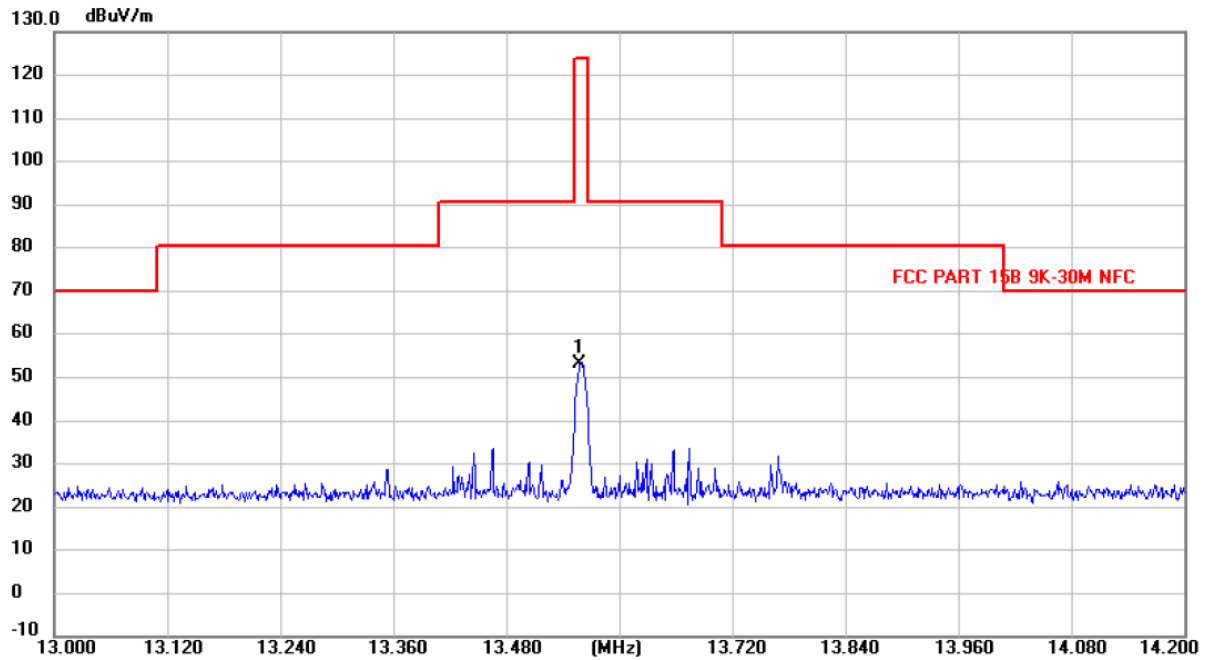
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	45.1770	16.78	14.50	31.28	40.00	-8.72	QP
2	78.5509	17.68	10.91	28.59	40.00	-11.41	QP
3	131.3540	18.43	14.15	32.58	43.50	-10.92	QP
4	161.9703	14.94	14.79	29.73	43.50	-13.77	QP
5	214.8907	17.25	11.81	29.06	43.50	-14.44	QP
6	431.9771	14.60	18.41	33.01	46.00	-12.99	QP

Note: Level = Reading + Factor Margin = Level - Limit

Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	100.7130	24.02	11.47	35.49	43.50	-8.01	QP
2	148.8970	18.24	15.06	33.30	43.50	-10.20	QP
3	162.1124	18.14	14.79	32.93	43.50	-10.57	QP
4	214.7965	17.37	11.81	29.18	43.50	-14.32	QP
5	324.0295	17.36	15.67	33.03	46.00	-12.97	QP
6	431.9771	15.59	18.41	34.00	46.00	-12.00	QP

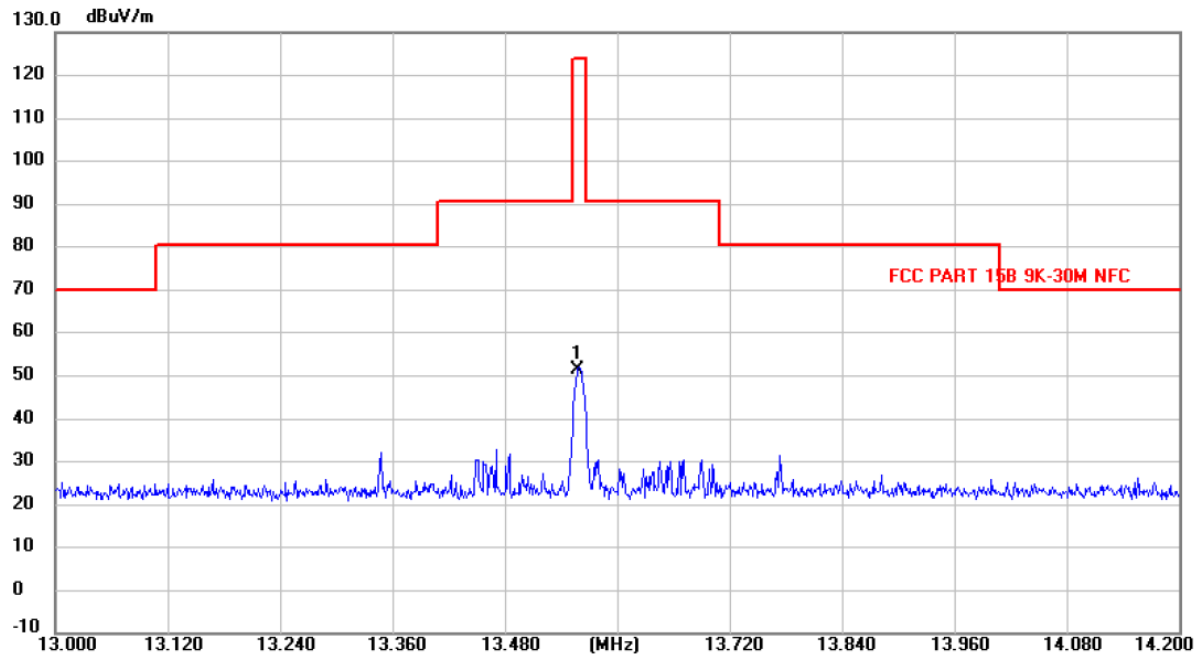
Note: Level = Reading + Factor Margin = Level - Limit

Polarization: X

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	13.5590	33.29	20.02	53.31	124.00	-70.69	peak

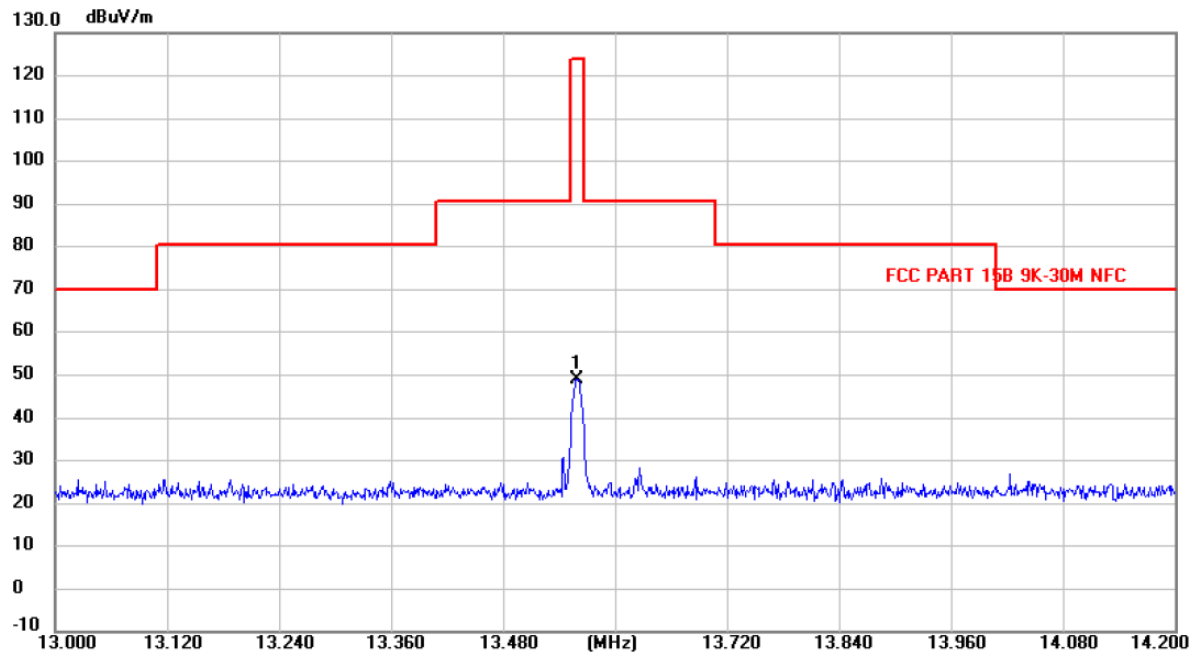
Note: Level = Reading + Factor Margin = Level - Limit

Polarization: Y



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	13.5590	31.50	20.02	51.52	124.00	-72.48	peak

Note: Level = Reading + Factor Margin = Level - Limit

Polarization: Z

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	13.5600	29.11	20.02	49.13	124.00	-74.87	peak

Note: Level = Reading + Factor Margin = Level - Limit

5. Frequency stability

5.1. Test limit

Please refer section RSS 210 B.6 & 15.225e.

Regulation 15.225(e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ (± 100 ppm) 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.

5.2. Test Procedure

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3. Test Setup

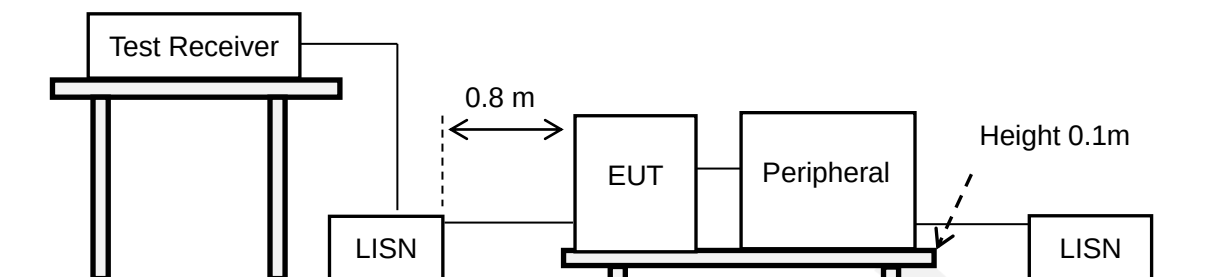


5.4. Test Results

Assigned Frequency(MHz): 13.56MHz				
Voltage (V)	Temperature °C	Measured Frequency (MHz)	Frequency stability(ppm)	Limit
Low AC 108V	+20°C	13.560463	23.70	±100 ppm ±0.001356MHz
Normal AC 120V	-10°C	13.561175	23.56	
	-5°C	13.561091	24.02	
	0°C	13.560782	25.10	
	+10°C	13.560609	22.29	
	+20°C	13.561188	28.48	
	+30°C	13.560571	25.03	
	+40°C	13.560362	24.04	
	+50°C	13.560698	27.81	
	+60°C	13.561356	25.57	
High AC 132V	+20°C	13.560956	22.65	
Results: Pass				

6. Power Line Conducted Emissions

6.1. Block Diagram of Test Setup



6.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

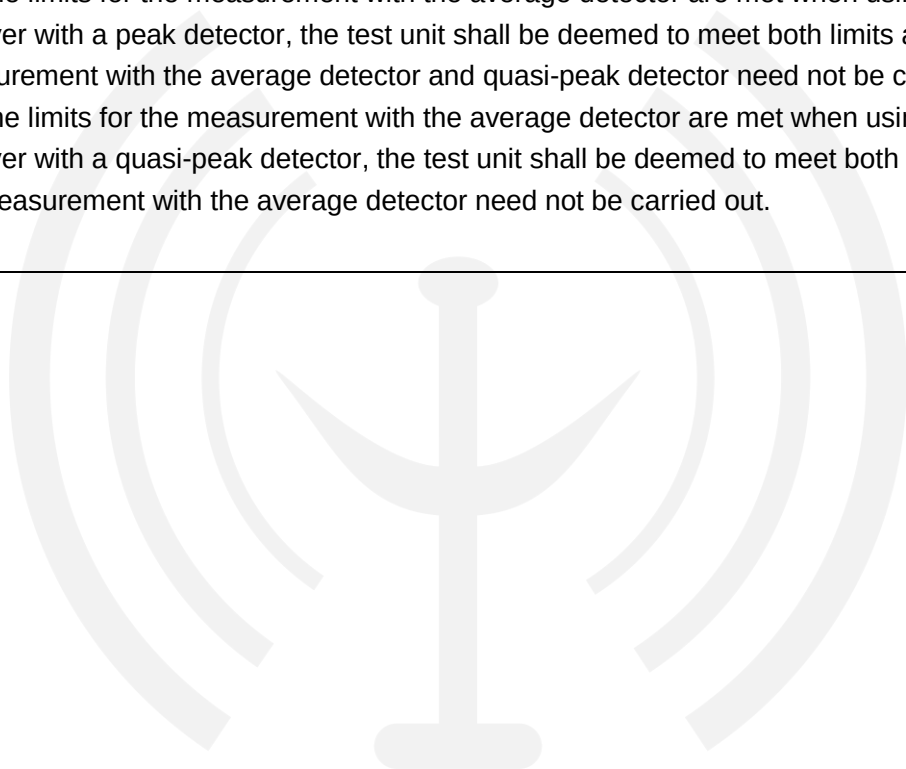
2. The lower limit shall apply at the transition frequencies.

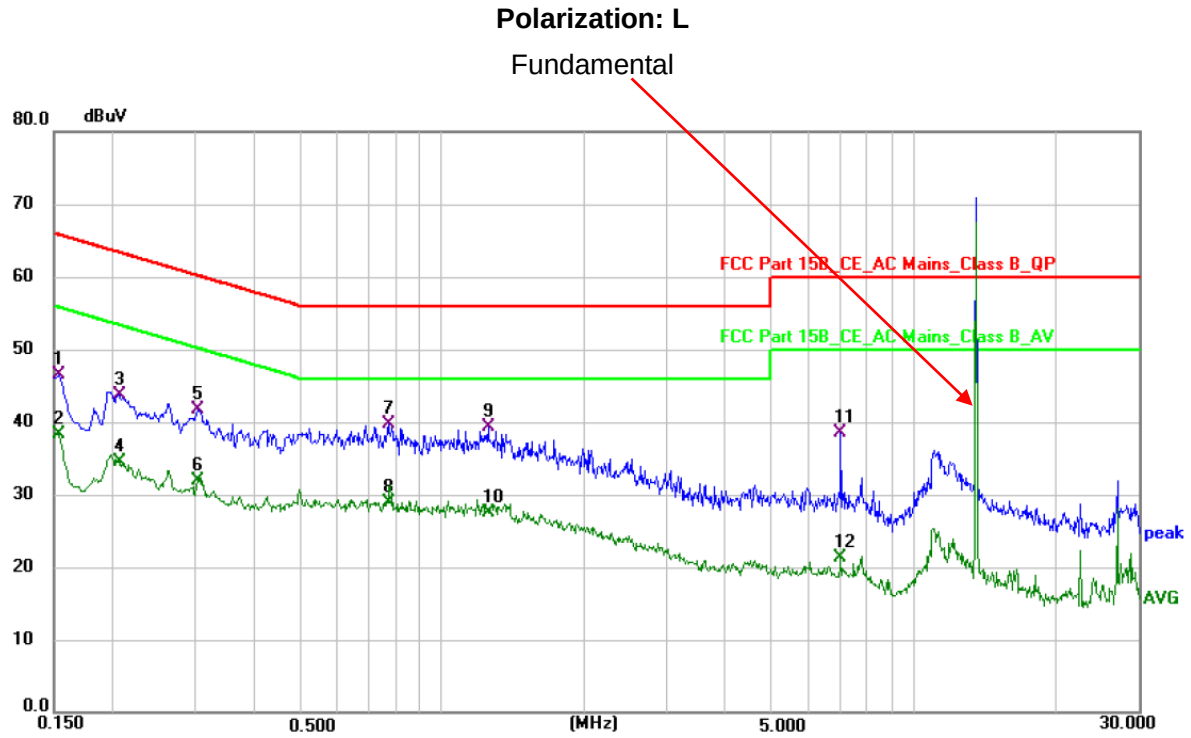
6.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 0.1cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N1), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C64.10:2020 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

6.4. Test Result

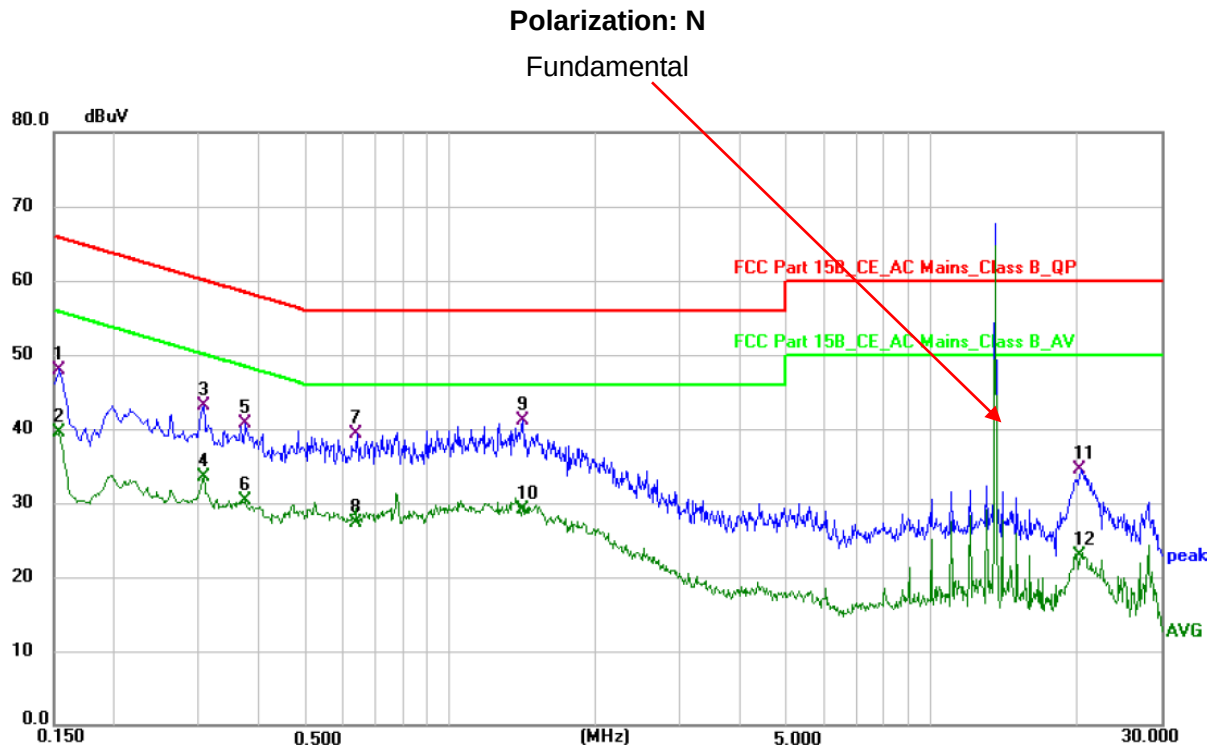
Test Date	: 2025.11.11	Temperature	: 26°C
Test Engineer	: Felix Pang	Humidity	: 54%
Test Mode	: NFC		
Test Voltage	: AC 120V/60Hz		
Test Results	: PASS		
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.		





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	36.50	9.94	46.44	65.79	-19.35	QP
2	0.1539	28.36	9.94	38.30	55.79	-17.49	AVG
3	0.2060	33.84	9.95	43.79	63.37	-19.58	QP
4	0.2060	24.47	9.95	34.42	53.37	-18.95	AVG
5	0.3020	31.67	9.98	41.65	60.19	-18.54	QP
6	0.3020	21.92	9.98	31.90	50.19	-18.29	AVG
7 *	0.7700	30.23	9.43	39.66	56.00	-16.34	QP
8	0.7700	19.52	9.43	28.95	46.00	-17.05	AVG
9	1.2540	29.94	9.40	39.34	56.00	-16.66	QP
10	1.2540	18.12	9.40	27.52	46.00	-18.48	AVG
11	6.9980	28.89	9.66	38.55	60.00	-21.45	QP
12	6.9980	11.68	9.66	21.34	50.00	-28.66	AVG

Note: Level = Reading + Factor Margin = Level - Limit



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	38.06	9.94	48.00	65.79	-17.79	QP
2	0.1539	29.54	9.94	39.48	55.79	-16.31	AVG
3	0.3060	33.19	9.97	43.16	60.08	-16.92	QP
4	0.3060	23.52	9.97	33.49	50.08	-16.59	AVG
5	0.3740	30.95	9.72	40.67	58.41	-17.74	QP
6	0.3740	20.49	9.72	30.21	48.41	-18.20	AVG
7	0.6419	29.80	9.57	39.37	56.00	-16.63	QP
8	0.6419	17.67	9.57	27.24	46.00	-18.76	AVG
9 *	1.4180	31.74	9.40	41.14	56.00	-14.86	QP
10	1.4180	19.79	9.40	29.19	46.00	-16.81	AVG
11	20.3779	24.71	9.75	34.46	60.00	-25.54	QP
12	20.3779	13.06	9.75	22.81	50.00	-27.19	AVG

Note: Level = Reading + Factor Margin = Level - Limit

7. Antenna Requirements

7.1. Limit

For intentional device, according to RSS-Gen Section 6.8 and 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. And according to FCC 47 CFR Section 15.209, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

RSS-Gen §6.8:

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

7.2. Antenna Connected Construction

The antenna is internal antenna and no consideration of replacement. Please see EUT photo for details.

7.3. Results

The EUT antenna is PCB Antenna. It complies with the standard requirement.

8. Photos of test setup

Reference to the **appendix I Test Setup Photo** for details.

9. Photos of EUT

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

----- END OF REPORT-----

