



FCC TEST REPORT

FCC ID: 2BGFV-P360

On Behalf of

Shenzhen Kangchengtai Industrial Co., Ltd

RFID AUTOMATIC PET FEEDER

Model No.: P360

Prepared for : Shenzhen Kangchengtai Industrial Co., Ltd
Address : NO.128 Dayang Road, Fuyong Street, Bao'an District, Shenzhen,
China

Prepared By : Shenzhen PSI Testing Co., Ltd.
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Contents

1. General Information.....	5
1.1. Description of Device (EUT)	5
1.2. Accessories of Device (EUT).....	6
1.3. Ancillary Equipment Details	6
1.4. Test Lab Information	6
2. Summary of test	7
2.1. Summary of test result.....	7
2.2. Block Diagram.....	7
2.3. Test mode	7
2.4. Test Conditions	7
2.5. Measurement Uncertainty (95% confidence levels, k=2)	8
2.6. Test Equipment	9
3. Occupied bandwidth and 20dB Bandwidth.....	10
3.1. Limit	10
3.2. Test Procedure.....	10
3.3. Test Setup.....	10
3.4. Test Result.....	10
4. Radiated emissions	11
4.1. Limit	11
4.2. Block Diagram of Test setup	11
4.3. Test Procedure.....	12
4.4. Test Result.....	13
5. Power Line Conducted Emissions	18
5.1. Block Diagram of Test Setup	18
5.2. Limit	18
5.3. Test Procedure.....	18
5.4. Test Result.....	19
6. Antenna Requirements	22
6.1. Limit	22
6.2. Antenna Connected Construction	22
6.3. Results	22
7. Test setup photo	23
8. Photos of EUT	23

TEST REPORT DECLARATION

Applicant : Shenzhen Kangchengtai Industrial Co., Ltd
Address : NO.128 Dayang Road, Fuyong Street, Bao'an District, Shenzhen, China
Manufacturer : Shenzhen Kangchengtai Industrial Co., Ltd
Address : NO.128 Dayang Road, Fuyong Street, Bao'an District, Shenzhen, China
EUT Description : RFID AUTOMATIC PET FEEDER
(A) Model No. : P360
(B) Trademark : N/A

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.225

ANSI C63.10:2020

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 Part15 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).....: Jensen Wang
Test Engineer

Jensen Wang

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

Simple Guan

Date of issue.....: January 26, 2026

Revision History

Revision	Issue Date	Revisions	Revised By
V0	January 26, 2026	Initial released Issue	Jensen Wang

1. General Information

1.1. Description of Device (EUT)

EUT : RFID AUTOMATIC PET FEEDER

Model No. : P360

DIFF : N/A

Power supply : AC 120V/60Hz

Radio Technology : NFC

Operation frequency : 125kHz

Channel No. : 1 Channel

Modulation : ASK

Antenna Type : Internal antenna

Software version : V1.0

Hardware Version/
FVIN : V1.0

1.2. Accessories of Device (EUT)

Accessories1 : Power Adapter
Manufacturer : SHENZHEN FUSHIGANG TECHNOLOGY CO., LTD
Model : AS0601A-0501000USL
Ratings : INPUT: 100-240V~ 50/60Hz
OUTPUT: DC 5V/1A

1.3. Ancillary Equipment Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC
1.	N/A	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

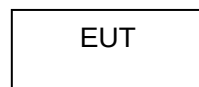
September 13, 2023 File on Federal Communication Commission
Registration Number: 916281

2. Summary of test

2.1. Summary of test result

Description of Test Item	Standard	Results
Conducted Emission	15.207(a)	PASS
Radiated emissions	15.209(a)&15.225	PASS
Fundamental field strength limit	15.225(a)	PASS
Band edge compliance	15.225	PASS
Antenna Requirement	15.203	PASS

2.2. Block Diagram



2.3. Test mode

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
1	CH1	0.125
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

Temperature range	21-25°C
Humidity range	40-75%
Pressure range	86-106kPa

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

Item	Uncertainty
Power Line Conducted Emissions Test	2.13dB
Radiation Emission test in 3m chamber(Below 30MHz)	4.07dB
Radiation Emission test in 3m chamber(30MHz to 1GHz)	4.51dB
Radiation Emission test in 3m chamber(1GHz to 18GHz)	5.07dB
Radiation Emission test in 3m chamber(18GHz to 40GHz)	5.21dB
Radio Frequency	48.24KHz
Conducted RF Power	0.41dB
Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Duty Cycle	1%
Conducted-Spurious Emission	1.26dB

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	/	2025.12.18	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2025.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV216	102282	/	2025.12.18	1 Year
4.	L.I.S.N.#2	RFT	NNB111	13835240	/	2025.12.18	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	FSV-40N	101648	3.70	2025.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
9.	Amplifier	SKET	LAPA_01G18 G-45dB	SK2022032901	/	2025.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
11.	Amplifier	SKET	LNPA_0118G- 45	SK2020010801	/	2025.12.18	1 Year
12.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02-1 111533-Fz	/	2025.12.18	1 Year
13.	RF Sensor Unit	Tachoy	TR1029-2	20220428P00 8	/	2025.12.18	1 Year
14.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2025.12.18	1 Year
15.	Temp. & Humid Chamber	Auchno	9606	/	/	2025.12.18	1 Year
16.	Regulated DC Power Supply	Xinouhua	ADC120V10 A	202211251638		2025.12.18	1 Year
17.	Cable	SKET	Cable-RE-1	#02/#03	/	2025.12.18	1 Year
18.	Cable	SKET	Cable-RE-2	#01	/	2025.12.18	1 Year
19.	Cable	SKET	Cable-RE-3	#04	/	2025.12.18	1 Year
20.	Cable	SKET	Cable-CE-1	A-E-24	/	2025.12.18	1 Year
21.	6dB Attenuator	Schwarzbeck	DGA 9552N 6dB	CK4186	/	2025.12.18	1 Year
22.	Power meter	Agilent	E4419B	GB40202121	/	2025.12.18	1 Year
23.	Comprehensive Test Instrument	Rohde&Schwarz	CMW 500	145266	/	2025.12.18	1 Year
For Test Software Information							
Item	Software Name	Manufacturer			Version		
RE	EZ EMC	Farad			PSI-3A1		
CE	EZ EMC	Farad			PSI-3A1		
RF	RTS	TACHOY			V1.0.0		

3. Occupied bandwidth and 20dB Bandwidth

3.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in FCC part 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.

3.2. Test Procedure

The transmitter output was directly connected to a spectrum analyzer with a 50Ω cable. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 3KHz RBW and 10kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

3.3. Test Setup



3.4. Test Result

Mode	Freq (MHz)	20dB Bandwidth (KHz)	99% Bandwidth	Limit (kHz)	Conclusion
Tx Mode	0.125	2.842	2.913	/	PASS



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(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
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.

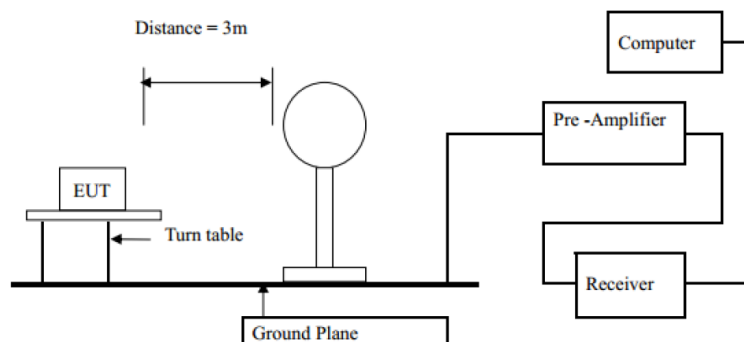
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

- (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.

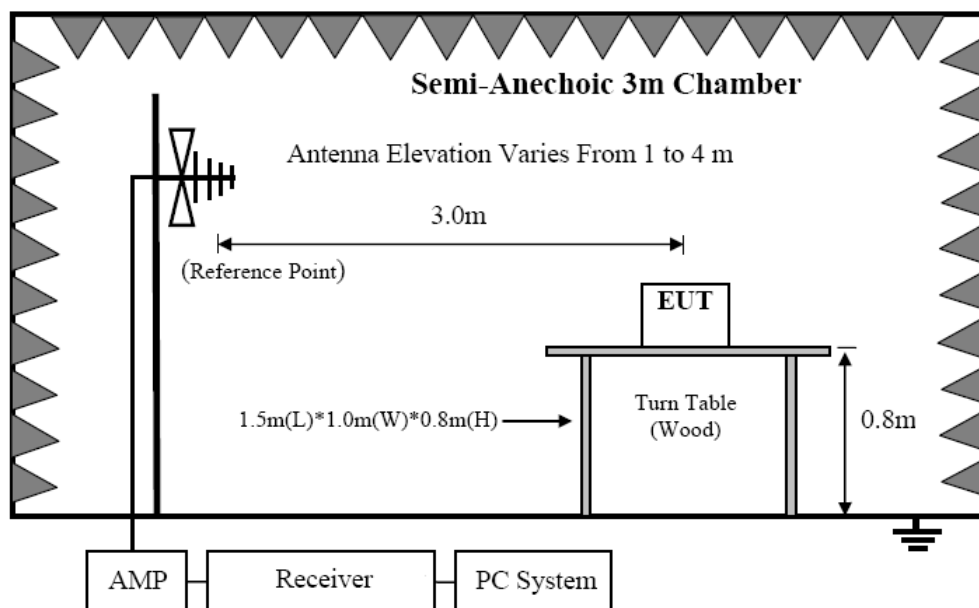
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

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, 80cm 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 .

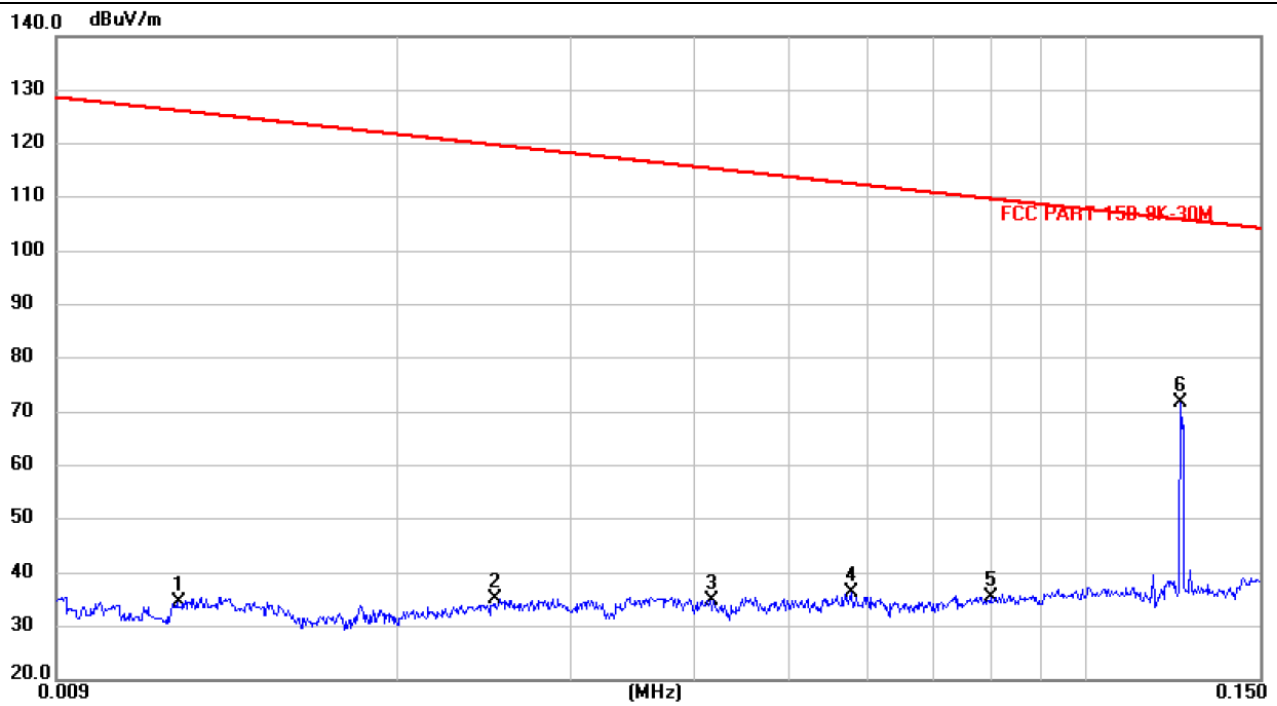
4.4. Test Result

PASS. (See below detailed test result)

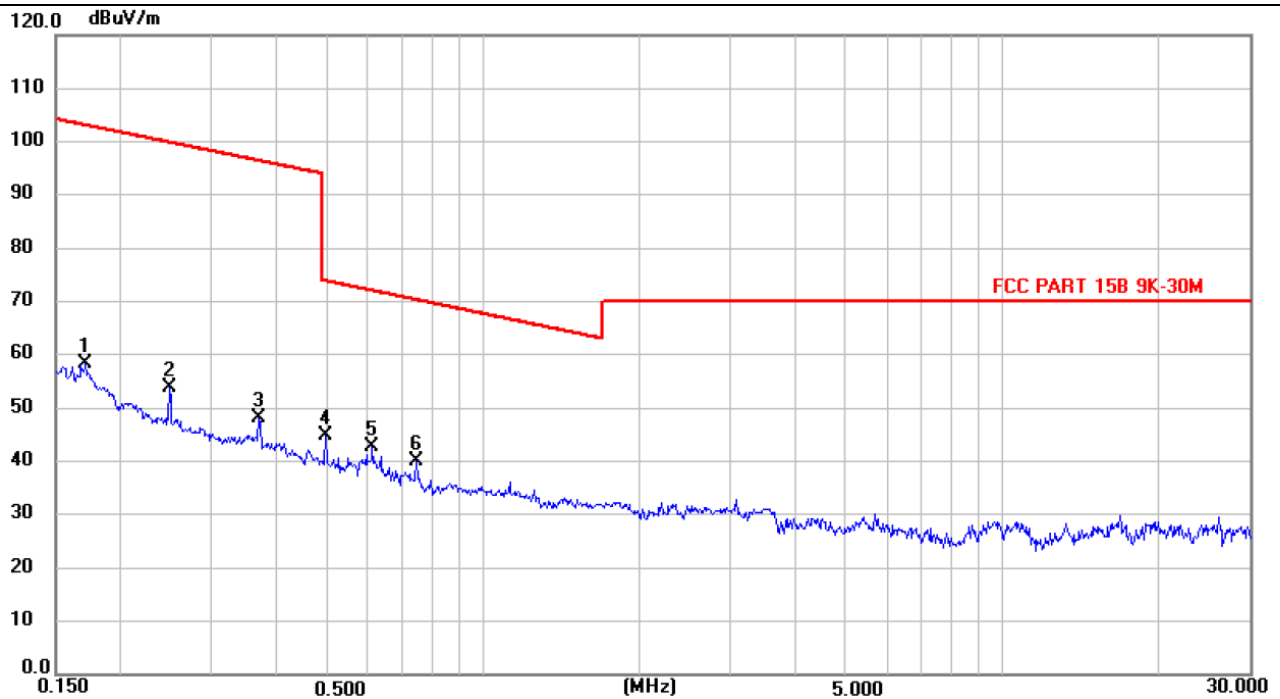
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Frequency Range	: 9KHz~30MHz
Test Mode	: TX: 0.125MHz
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.

X

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0120	13.10	21.45	34.55	126.11	-91.56	peak
2	0.0252	13.98	21.12	35.10	119.69	-84.59	peak
3	0.0417	14.46	20.35	34.81	115.33	-80.52	peak
4	0.0577	16.44	20.02	36.46	112.52	-76.06	peak
5	0.0800	15.34	20.05	35.39	109.69	-74.30	peak
6 *	0.1247	51.89	19.85	71.74	105.85	-34.11	peak



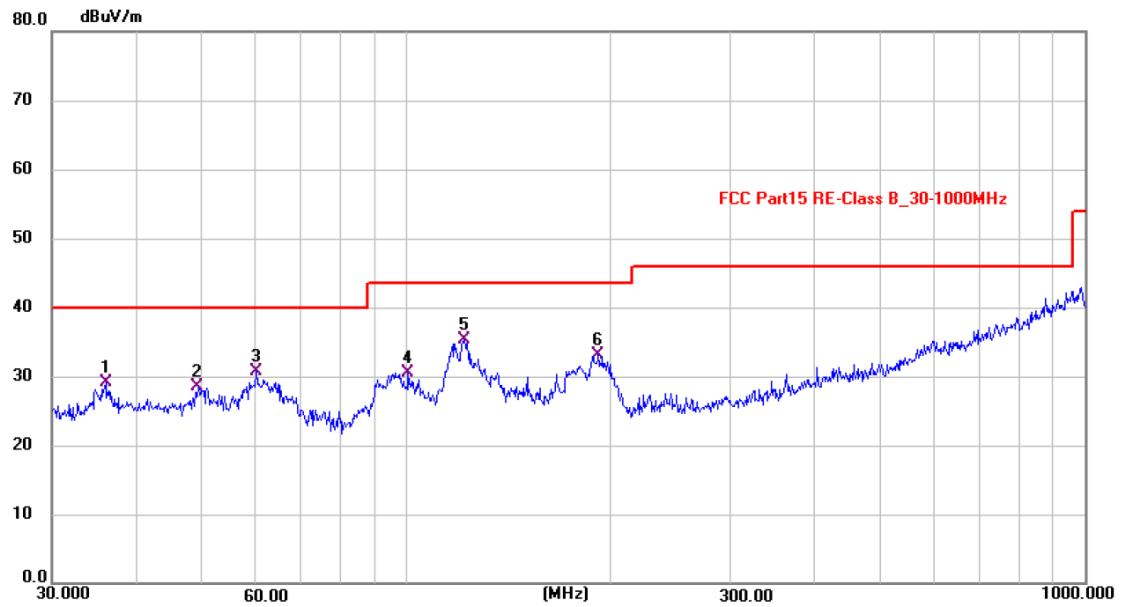
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1713	38.12	20.17	58.29	103.10	-44.81	peak
2	0.2490	33.75	20.06	53.81	99.86	-46.05	peak
3	0.3710	28.14	19.88	48.02	96.41	-48.39	peak
4 *	0.4980	25.00	19.70	44.70	73.86	-29.16	peak
5	0.6130	23.04	19.77	42.81	72.02	-29.21	peak
6	0.7460	20.19	19.85	40.04	70.29	-30.25	peak

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

From 30MHz to 1GHz: Conclusion: PASS

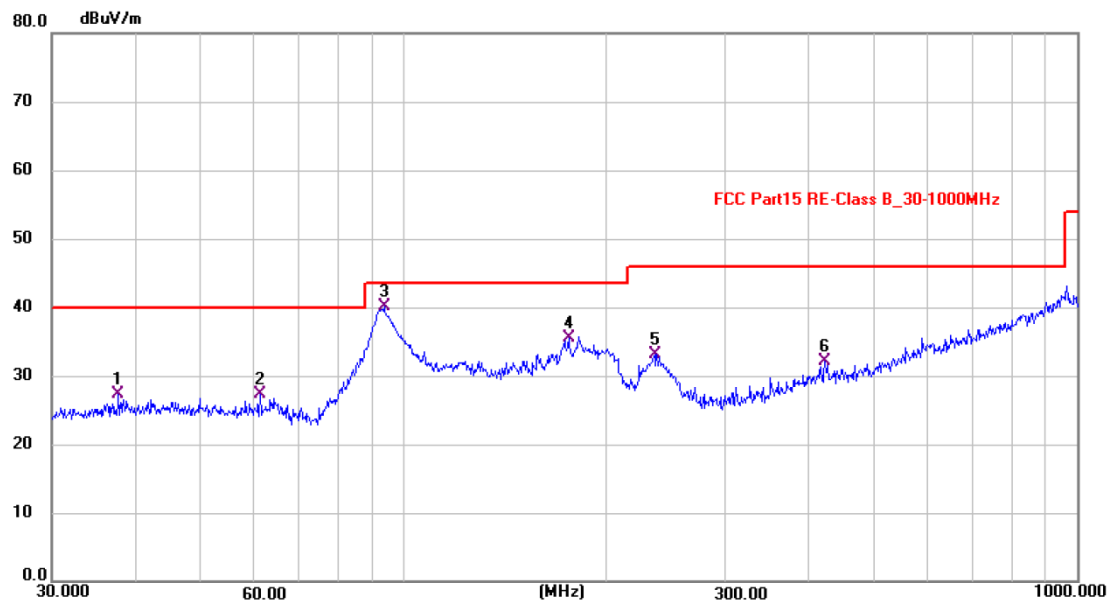
Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.1272	14.63	14.39	29.02	40.00	-10.98	QP
2	49.3594	14.21	14.28	28.49	40.00	-11.51	QP
3	60.1218	17.37	13.30	30.67	40.00	-9.33	QP
4	100.8897	19.10	11.49	30.59	43.50	-12.91	QP
5 *	121.6019	21.80	13.55	35.35	43.50	-8.15	QP
6	191.9132	21.27	11.93	33.20	43.50	-10.30	QP

Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

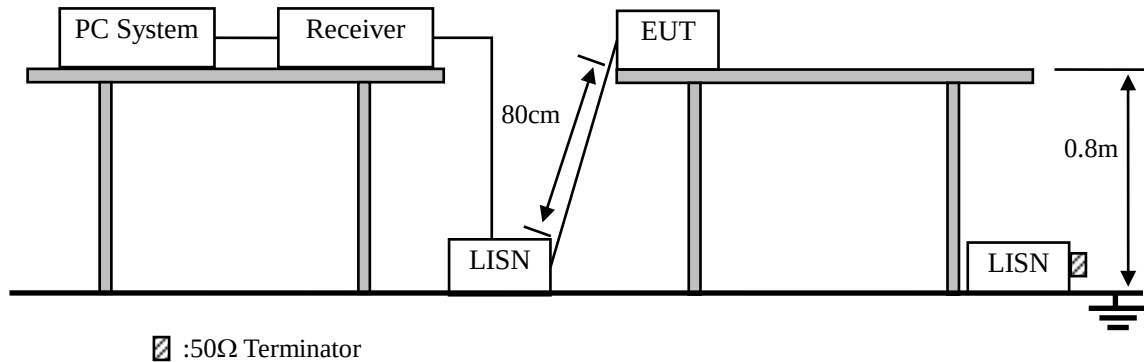
Horizontal:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.7128	12.74	14.47	27.21	40.00	-12.79	QP
2	61.1316	14.08	13.14	27.22	40.00	-12.78	QP
3 *	93.6042	29.20	10.97	40.17	43.50	-3.33	QP
4	176.1142	22.07	13.46	35.53	43.50	-7.97	QP
5	236.0232	20.55	12.58	33.13	46.00	-12.87	QP
6	422.7983	13.85	18.17	32.02	46.00	-13.98	QP

Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

5. Power Line Conducted Emissions



☐ :50Ω Terminator

5.1. Block Diagram of Test Setup

5.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
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.

5.3. Test Procedure

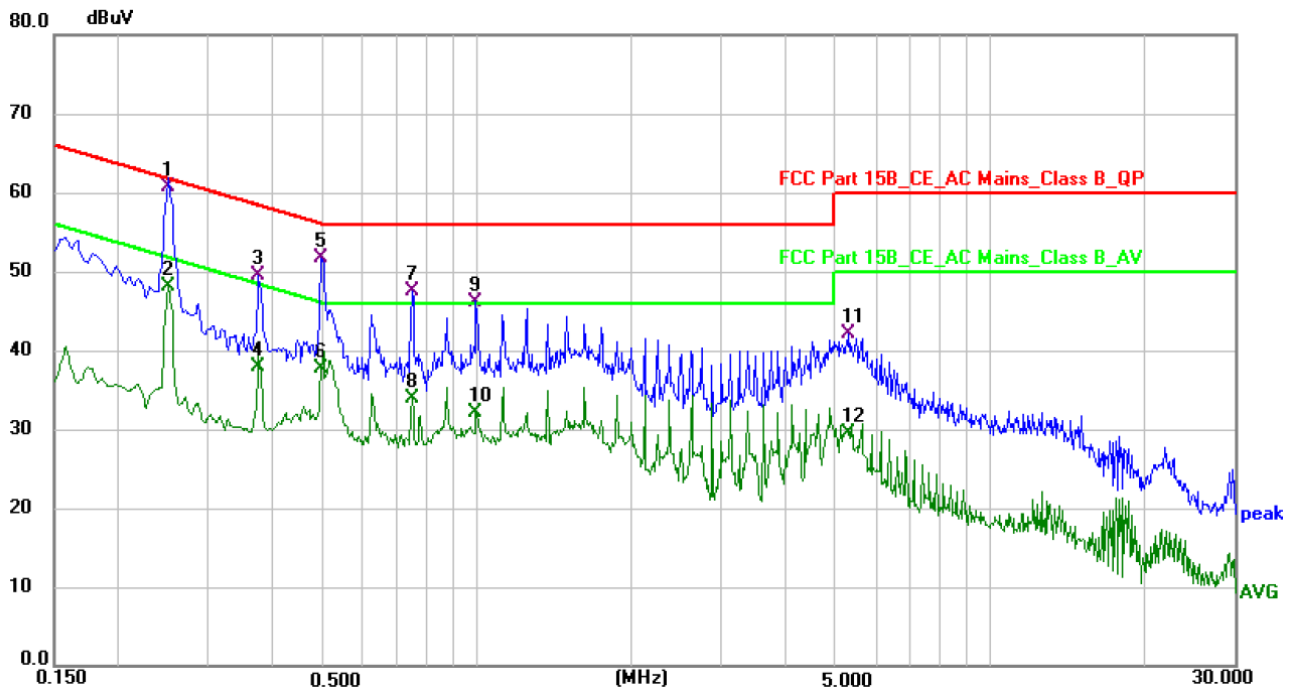
- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected 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.

5.4. Test Result

Test Mode	: Mode 1
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.

Mode 1:

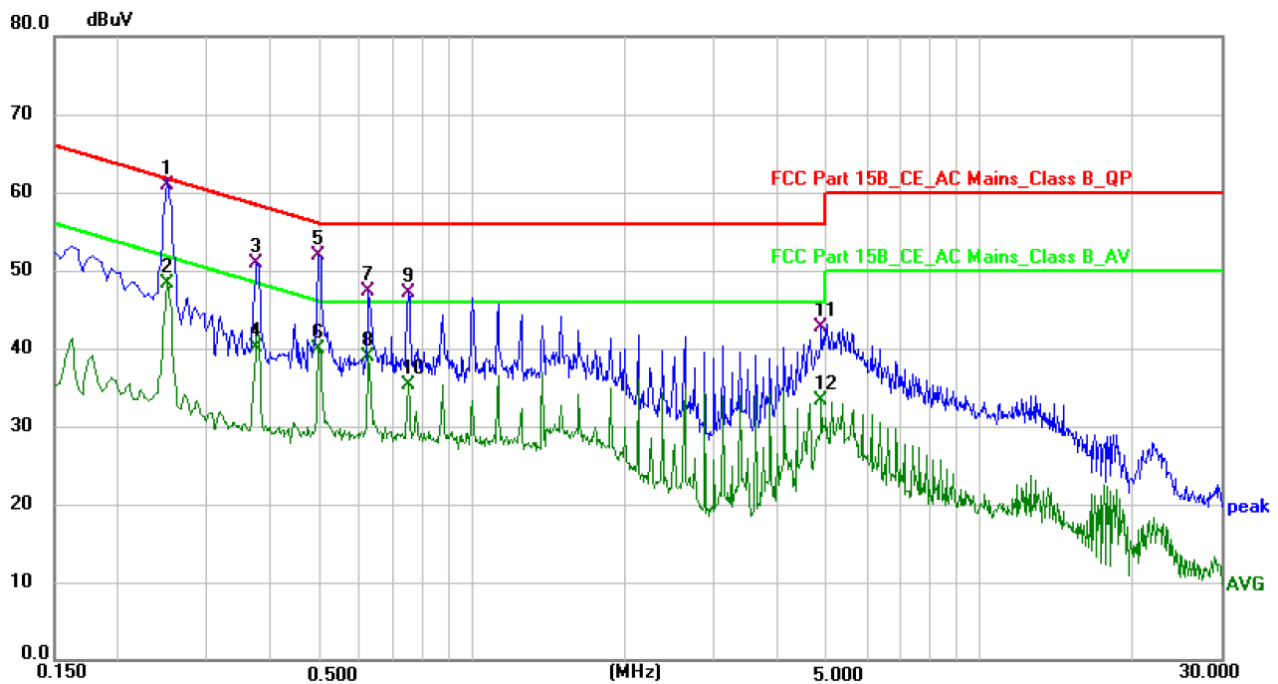
Temperature	26°C	Humidity	54%
Pol	Line		AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.2500	51.38	9.42	60.80	61.76	-0.96	QP
2	0.2500	38.64	9.42	48.06	51.76	-3.70	AVG
3	0.3740	39.99	9.42	49.41	58.41	-9.00	QP
4	0.3740	28.44	9.42	37.86	48.41	-10.55	AVG
5	0.4980	42.09	9.71	51.80	56.03	-4.23	QP
6	0.4980	28.04	9.71	37.75	46.03	-8.28	AVG
7	0.7500	37.91	9.50	47.41	56.00	-8.59	QP
8	0.7500	24.45	9.50	33.95	46.00	-12.05	AVG
9	0.9980	36.37	9.83	46.20	56.00	-9.80	QP
10	0.9980	22.37	9.83	32.20	46.00	-13.80	AVG
11	5.3180	32.27	9.78	42.05	60.00	-17.95	QP
12	5.3180	19.74	9.78	29.52	50.00	-20.48	AVG

Level = Reading + Factor Margin = Level - Limit

Pol	Neutral
-----	---------



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.2500	51.48	9.42	60.90	61.76	-0.86	QP
2	0.2500	38.94	9.42	48.36	51.76	-3.40	AVG
3	0.3740	41.51	9.42	50.93	58.41	-7.48	QP
4	0.3740	30.75	9.42	40.17	48.41	-8.24	AVG
5	0.4980	42.26	9.71	51.97	56.03	-4.06	QP
6	0.4980	30.25	9.71	39.96	46.03	-6.07	AVG
7	0.6260	37.54	9.86	47.40	56.00	-8.60	QP
8	0.6260	29.10	9.86	38.96	46.00	-7.04	AVG
9	0.7500	37.29	9.88	47.17	56.00	-8.83	QP
10	0.7500	25.37	9.88	35.25	46.00	-10.75	AVG
11	4.8780	33.06	9.74	42.80	56.00	-13.20	QP
12	4.8780	23.52	9.74	33.26	46.00	-12.74	AVG

Level = Reading + Factor Margin = Level - Limit

6. Antenna Requirements

6.1. 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.

6.2. Antenna Connected Construction

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

6.3. Results

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

7. Test setup photo

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

8. Photos of EUT

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

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