TEST REPORT

PS E

J55014-1(H27)

Report Reference No..... :	E01A22060003J00501
Engineer (name + signature)..... :	Duke Liu
Reviewed by (name + signature)..... :	Tiger Xu
Approved by (name + signature).....:	Tomas Yang
Date of Receipt of EUT.....:	Jun. 02, 2022
Date of Test.....:	Jun. 02, 2022 to Jun. 06, 2022
Date of Issue..... :	Jun. 21, 2022
Testing Laboratory..... :	Dong Guan Anci Electronic Technology Co., Ltd
Address..... :	1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China.
Laboratory location..... :	EMC Laboratory
Applicant's name.....:	ShengHui Electronic Technology(Guangdong)Co., Ltd.
Address..... :	Room 301, No. 61, 3rd Street, Changtang 3rd Industrial Zone, Dalang Town, Dongguan, Guangdong, China 523775
Manufacturer..... :	Same as Applicant
Address..... :	Same as Applicant
Factory……:	Same as Applicant
Address……..:	Same as Applicant

Test specification:

EUT description.....:	Deodorant Cat Litter Box
Trade Mark.....:	N/A
Model/Type reference ..... :	SH2116
Test Sample……..:	SH2116
Ratings..... :	Deodorant Cat Litter Box input:5.0V⎓1.0A Adapter input:100-240V~50/60H 0.15A Adapter output:5.0V⎓1.0A 5.0W
Tested Power……:	Input: 100Vac,50Hz and 100Vac,60Hz
Standards .....:	J55014-1(H27)

The device described above was tested by Dong Guan Anci Electronic Technology Co., Ltd. to determine the maximum emission levels emanated from the device and severity levels of the device endure and its performance criterion. The measurement results are contained in this test report and Dong Guan Anci Electronic Technology Co., Ltd. assumes full responsibility for the accuracy and completeness of these measurements. This report shows the EUT is technically compliance with the above official standards.

This report applies to the above sample only and shall not be reproduced in part without written approval of Dong Guan Anci Electronic Technology Co., Ltd.

Table of Contents **Page**

1. GENERAL INFORMATION

1.1 PRODUCT INFORMATION

The product is Deodorant Cat Litter Box for the used only for household and indoor.

The model tested in the report is SH2116.

The EUT passed the test.

Test data reflecting the worst mode in the report (100Vac, 60Hz).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Emission			
Standard	Test Item	Limits	Results
J55014-1 (H27)	Disturbance Voltage at the Mains Terminal	Clause 4	PASS
	Disturbance Power	Clause 4	PASS

NOTE:
(1)" N/A" denotes test is not applicable in this Test Report

2.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U (dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	3.19	

B. Disturbance Power Measurement :

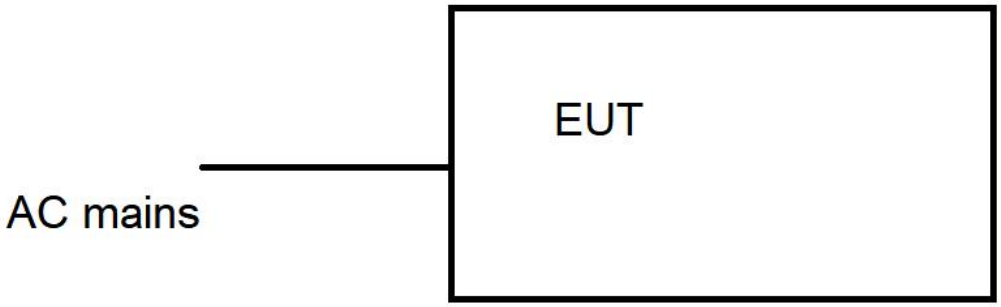
Test Site	Method	Measurement Frequency Range	U (dB)	NOTE
C01	ANSI	30 MHz ~ 300MHz	3.26	

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For Emission Test	
Test Mode	Description
Mode 1	Max power
Mode 2	Min power

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

3. EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION(MAINS PORT) (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	59 - 46 *
0.5 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

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

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

3.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E010	L.I.S.N	SCHWARZBECK	NSLK 8127	8127-669	2023-05-12
2	AN-E078	TRANSIENT LIMITER	CYBERTEK	EM5010A	E1950100113	2023-05-12
3	AN-E022	RF Cable	N/A	ZT06S-BNCJ-NJ-7.5M	19044020	2023-05-12
4	AN-E020	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2023-05-12
5	AN-E058	1# Shielded Room	chengyu	8m*4m*3.3m	N/A	2024-11-12
6	AN-E046	Test Software	Farad	EZ-EMC (Ver.ANCI-3A1)	N/A	N/A

Remark: ” N/A” denotes No Model No. , Serial No. or No Calibration specified.

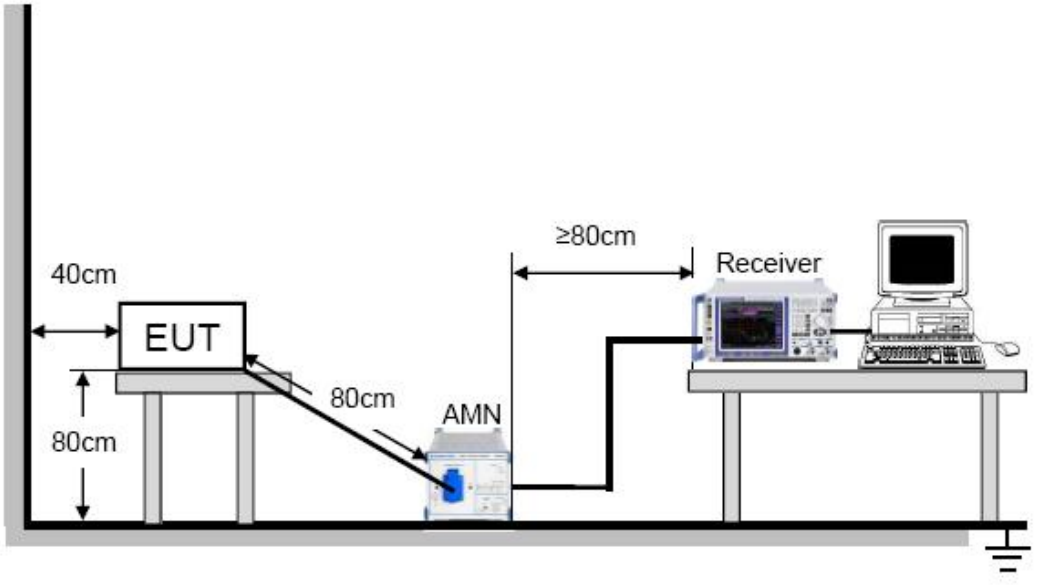
3.1.3 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation

3.1.5 TEST SETUP



3.1.6 EUT OPERATING CONDITIONS

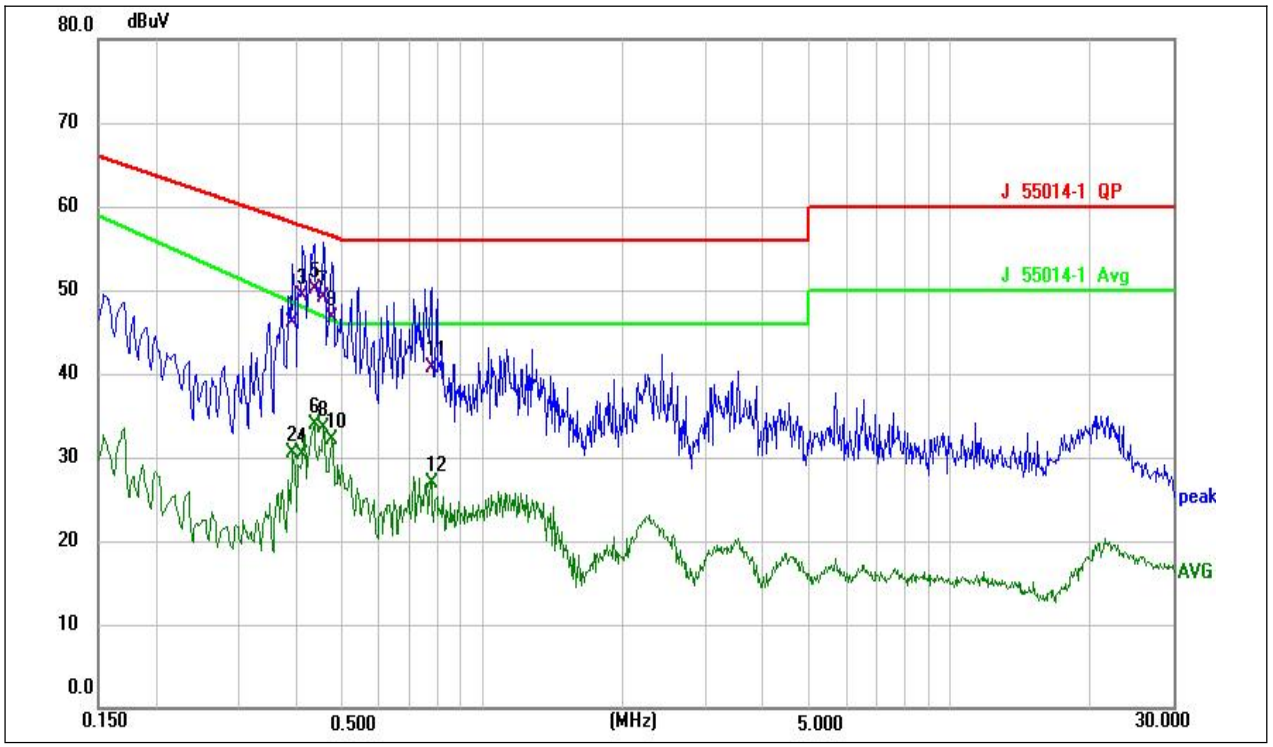
The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use.

3.1.7 TEST RESULTS

EUT：	Deodorant Cat Litter Box	**Model No. ：**	SH2116
Temperature：	23.5℃	**Relative Humidity：**	52.6 %
Pressure：	1008 hPa	**Test Power ：**	AC 100V/50Hz, AC 100V/60Hz
Test Mode ：	Max power, Min power		

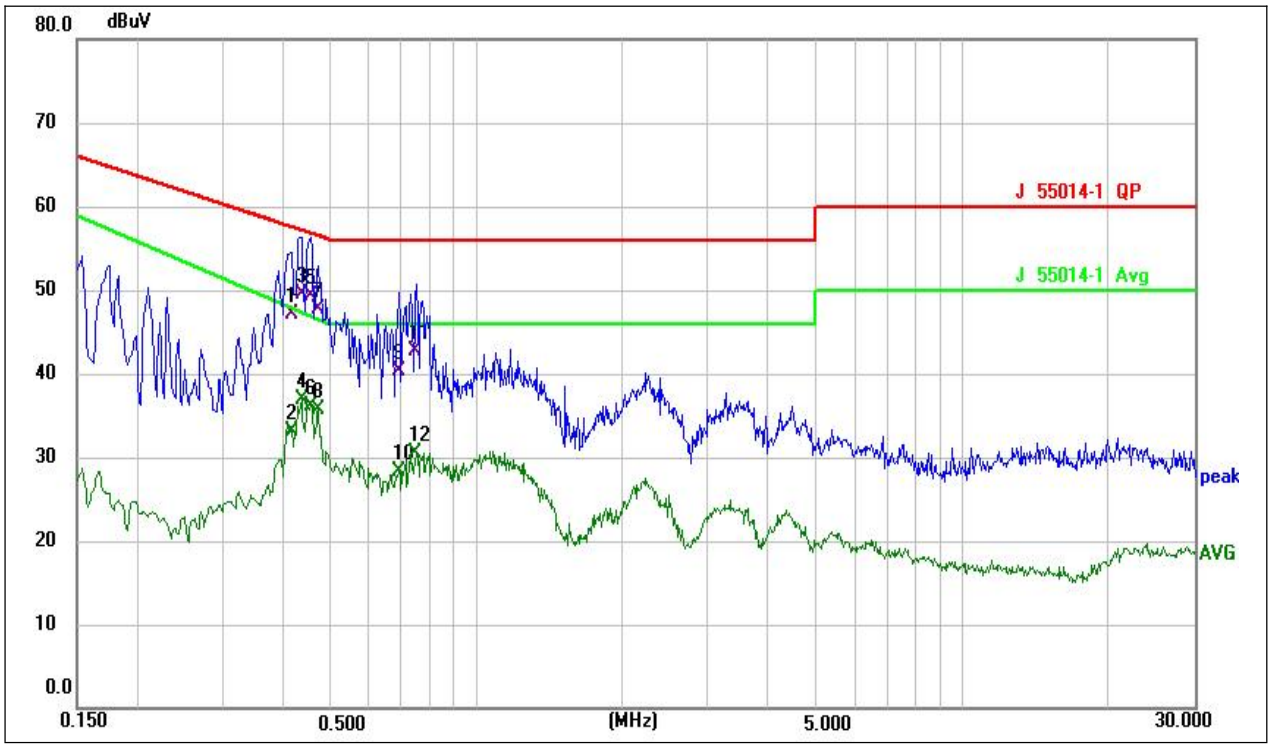
Remark：

(1) Reading in which marked as QP means measurements by using Quasi-Peak Detector, and AV means measurements by using Average Detector.
(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
(3) Measuring frequency range from 150KHz to 30MHz.
(4) This test was carried out in conducted emission shielded room.



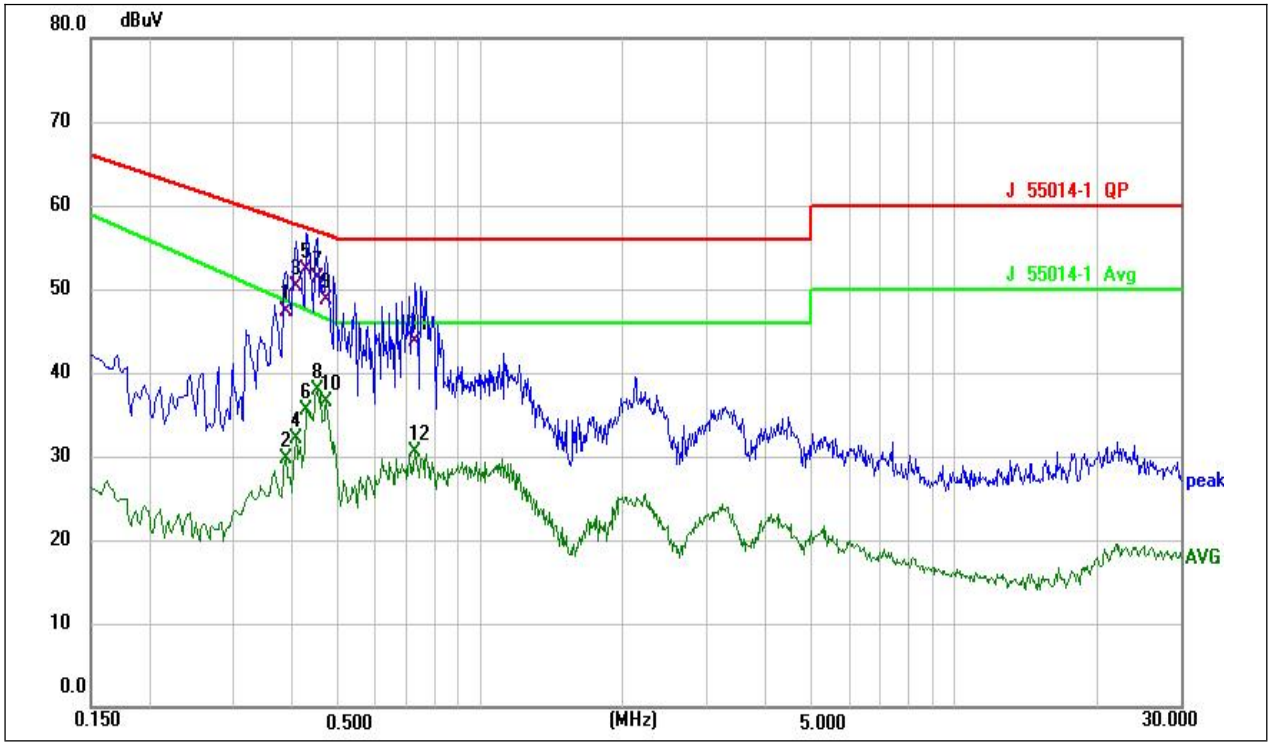
Site:	**843.3**	**Phase:N**	**Temperature(C):23.5(C)**
Limit:	**J55014-1 (QP)**		**Humidity(%):52.6%**
EUT:	**Deodorant Cat Litter Box**	**Test Time:**	**2022-06-02**
M/N.:	**SH2116**	**Power Rating:**	**AC 100V/60Hz**
Mode:	**Max power**	**Test Engineer:**	**Luffy**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.3899	36.13	9.90	46.03	58.07	-12.04	QP	
2	0.3899	20.61	9.90	30.51	48.69	-18.18	AVG	
3	0.4100	39.33	9.88	49.21	57.65	-8.44	QP	
4	0.4100	20.51	9.88	30.39	48.14	-17.75	AVG	
5	0.4340	40.30	9.87	50.17	57.18	-7.01	QP	
6	0.4340	24.03	9.87	33.90	47.53	-13.63	AVG	
7	0.4540	39.29	9.87	49.16	56.80	-7.64	QP	
8	0.4540	23.73	9.87	33.60	47.04	-13.44	AVG	
9	0.4740	36.78	9.85	46.63	56.44	-9.81	QP	
10	0.4740	22.24	9.85	32.09	46.58	-14.49	AVG	
11	0.7780	31.17	9.63	40.80	56.00	-15.20	QP	
12 *	0.7780	17.32	9.63	26.95	46.00	-19.05	AVG	



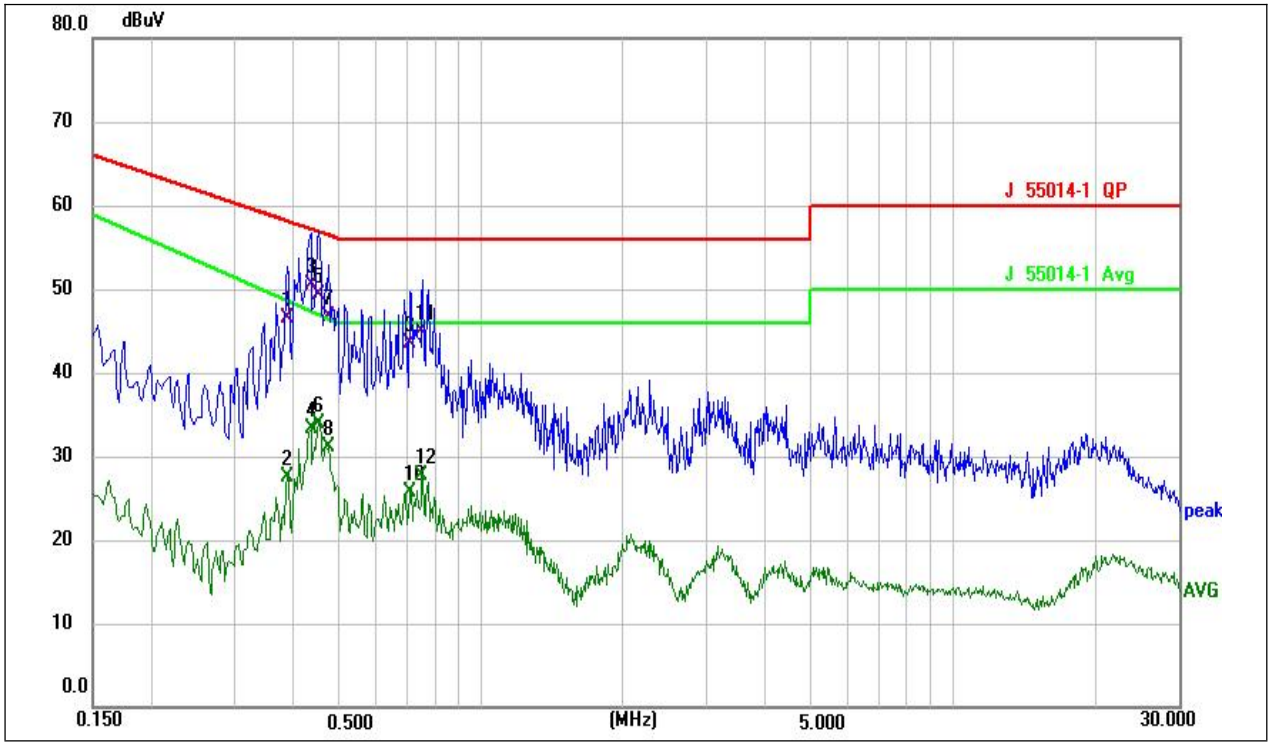
Site:	**843.3**	**Phase:L1**	**Temperature(C):23.5(C)**
Limit:	**J55014-1 (QP)**		**Humidity(%):52.6%**
EUT:	**Deodorant Cat Litter Box**	**Test Time:**	**2022-06-02**
M/N.:	**SH2116**	**Power Rating:**	**AC 100V/60Hz**
Mode:	**Max power**	**Test Engineer:**	**Luffy**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.4140	37.18	9.88	47.06	57.57	-10.51	QP	
2	0.4140	23.30	9.88	33.18	48.04	-14.86	AVG	
3	0.4340	39.70	9.86	49.56	57.18	-7.62	QP	
4	0.4340	26.96	9.86	36.82	47.53	-10.71	AVG	
5	0.4540	39.50	9.86	49.36	56.80	-7.44	QP	
6	0.4540	26.30	9.86	36.16	47.04	-10.88	AVG	
7	0.4700	37.88	9.85	47.73	56.51	-8.78	QP	
8	0.4700	25.92	9.85	35.77	46.67	-10.90	AVG	
9	0.6900	30.67	9.69	40.36	56.00	-15.64	QP	
10 *	0.6900	18.52	9.69	28.21	46.00	-17.79	AVG	
11	0.7539	33.11	9.65	42.76	56.00	-13.24	QP	
12	0.7539	20.80	9.65	30.45	46.00	-15.55	AVG	



Site:	**843.3**	**Phase:L1**	**Temperature(C):23.5(C)**
Limit:	**J55014-1 (QP)**		**Humidity(%):52.6%**
EUT:	**Deodorant Cat Litter Box**	**Test Time:**	**2022-06-02**
M/N.:	**SH2116**	**Power Rating:**	**AC 100V/60Hz**
Mode:	**Min power**	**Test Engineer:**	**Luffy**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.3860	37.35	9.89	47.24	58.15	-10.91	QP	
2	0.3860	19.88	9.89	29.77	48.79	-19.02	AVG	
3	0.4060	40.35	9.87	50.22	57.73	-7.51	QP	
4	0.4060	22.18	9.87	32.05	48.25	-16.20	AVG	
5	0.4282	42.36	9.86	52.22	57.29	-5.07	QP	
6	0.4282	25.74	9.86	35.60	47.67	-12.07	AVG	
7	0.4500	41.47	9.85	51.32	56.88	-5.56	QP	
8	0.4500	27.98	9.85	37.83	47.14	-9.31	AVG	
9	0.4700	38.92	9.85	48.77	56.51	-7.74	QP	
10 *	0.4700	26.69	9.85	36.54	46.67	-10.13	AVG	
11	0.7260	34.08	9.66	43.74	56.00	-12.26	QP	
12	0.7260	20.94	9.66	30.60	46.00	-15.40	AVG	



Site:	**843.3**	**Phase:N**	**Temperature(C):23.5(C)**
Limit:	**J55014-1 (QP)**		**Humidity(%):52.6%**
EUT:	**Deodorant Cat Litter Box**	**Test Time:**	**2022-06-02**
M/N.:	**SH2116**	**Power Rating:**	**AC 100V/60Hz**
Mode:	**Min power**	**Test Engineer:**	**Luffy**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.3860	36.70	9.90	46.60	58.15	-11.55	QP	
2	0.3860	17.65	9.90	27.55	48.79	-21.24	AVG	
3	0.4340	40.73	9.87	50.60	57.18	-6.58	QP	
4	0.4340	23.45	9.87	33.32	47.53	-14.21	AVG	
5	0.4500	39.45	9.85	49.30	56.88	-7.58	QP	
6	0.4500	24.11	9.85	33.96	47.14	-13.18	AVG	
7	0.4740	36.95	9.85	46.80	56.44	-9.64	QP	
8	0.4740	21.29	9.85	31.14	46.58	-15.44	AVG	
9	0.7060	33.93	9.67	43.60	56.00	-12.40	QP	
10 *	0.7060	16.10	9.67	25.77	46.00	-20.23	AVG	
11	0.7539	35.35	9.65	45.00	56.00	-11.00	QP	
12	0.7539	18.01	9.65	27.66	46.00	-18.34	AVG	

3.2 DISTURBANCE POWER MEASUREMENT

3.2.1 LIMITS OF DISTURBANCE POWER MEASUREMENT

FREQUENCY (MHz)	Limit (at 3m)	
	QP（dBpW）	AV(dBpw)
30 – 300	45 – 55	35 – 45

Notes:

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

3.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E012	Absorbing clamp	LUTHI	MDS 21	4202	2023-05-15
2	AN-E011	6 db attenuator	N/A	N/A	N/A	2023-05-12
3	AN-E008	RF Cable	N/A	Z804-NJ-NJ-10M	19044019	2023-05-12
4	AN-E020	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2023-05-12
5	AN-E058	1# Shielded Room	chengyu	8m*4m*3.3m	N/A	2024-11-11
6	AN-E046	Test Software	Farad	EZ-EMC (Ver.ANCI-3A1)	N/A	N/A

Remark: ” N/A” denotes No Model No. / Serial No. and No Calibration specified.

3.2.3 TEST PROCEDURE

a. The EUT was placed on a non-metallic table of 0.8 m of height above the floor and at least 0.8m from other metallic objects and from any person. The lead to be measured shall be stretched in a straight horizontal line for a length sufficient to accommodate the absorbing clamp and to permit the necessary adjustment of its position for tuning.

b. Any other lead than that to be measured shall disconnected..

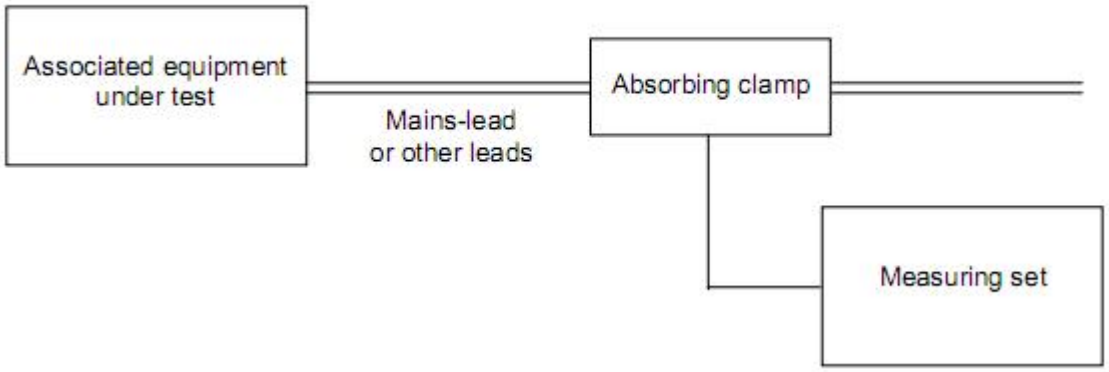
c. At each test frequency the absorbing clamp shall be moved along the lead until the maximum value is found between a position adjacent to the equipment under test and a distance of 6 m

d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation

3.2.5 TEST SETUP



3.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 3.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.7 TEST RESULTS

EUT：	Deodorant Cat Litter Box	**Model No. ：**	SH2116
Temperature：	23.5℃	**Relative Humidity：**	52.6 %
Pressure：	1009 hPa	**Test Power ：**	AC 100V/50Hz, AC 100V/60Hz
Test Mode ：	Max power, Min power		

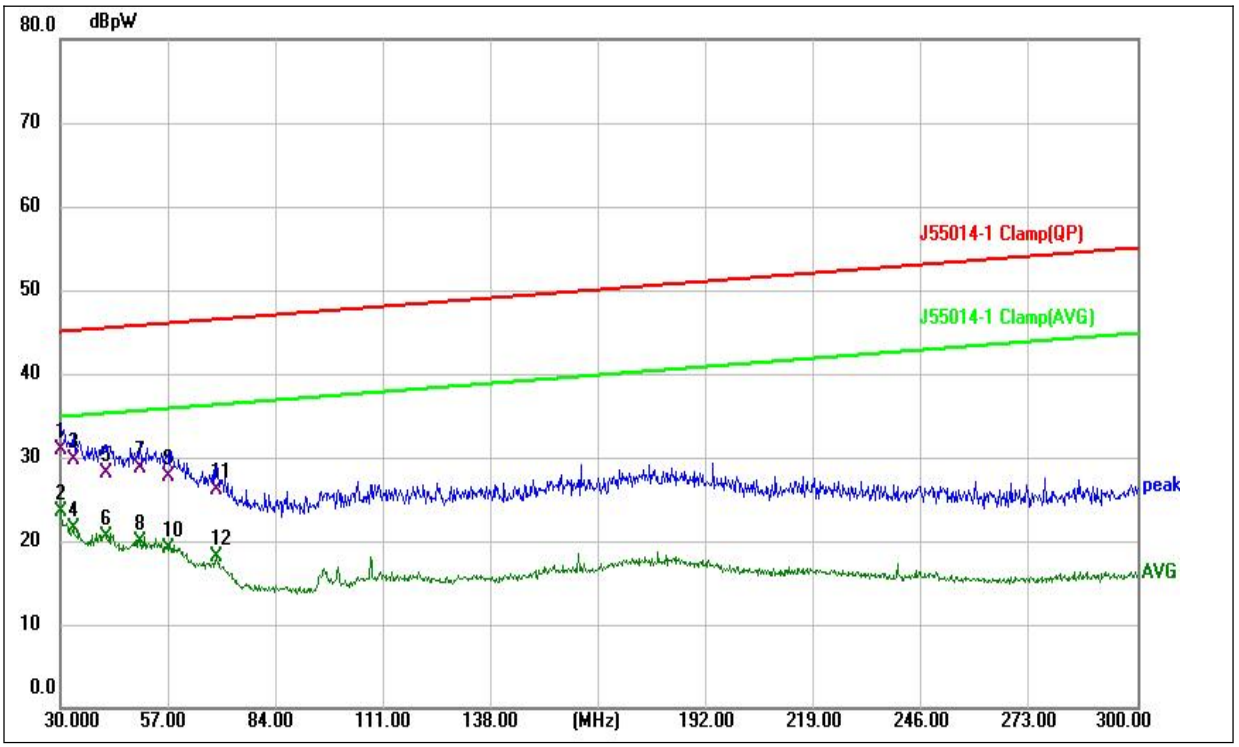
Remark：

(1) Reading in which marked as QP means measurements by using Quasi-Peak Detector, and AV means measurements by using Average Detector.

(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.

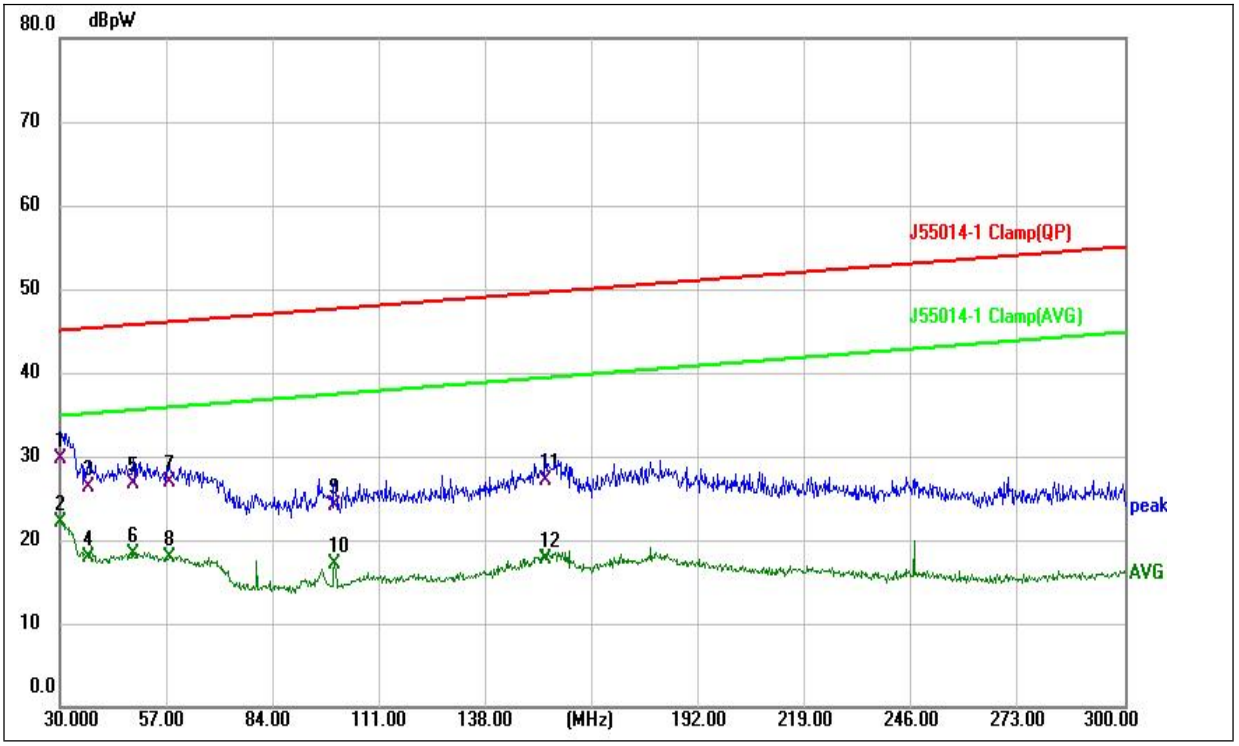
(3) Measuring frequency range from 30MHz to 300MHz.

(4) This test was carried out in conducted emission shielded room.



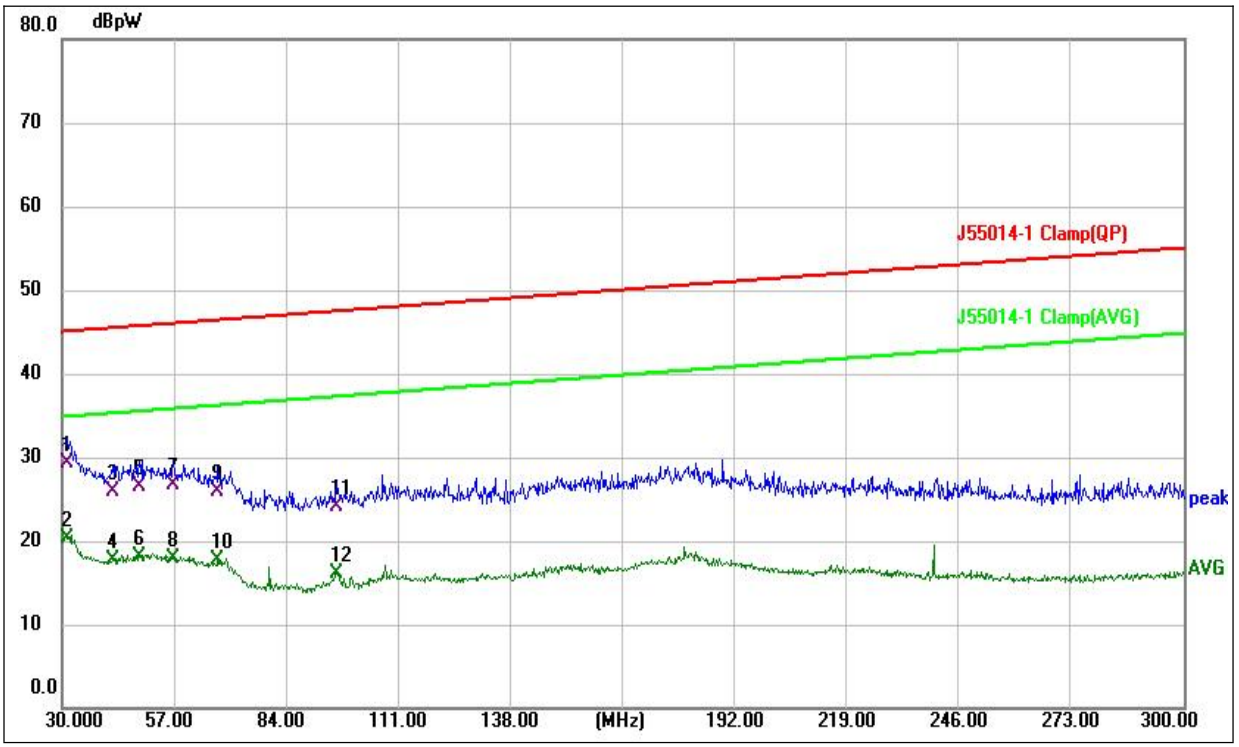
Site:	**843.3**		**Temperature(C):23.5(C)**
Limit:	**J55014-1 Clamp(QP)**		**Humidity(%):52.6%**
EUT:	**Deodorant Cat Litter Box**	**Test Time:**	**2022-06-06**
M/N.:	**SH2116**	**Power Rating:**	**AC 100V/60Hz**
Mode:	**Max power**	**Test Engineer:**	**Luffy**
Note:	**AC Line**		

No.	Frequency (MHz)	Reading Level(dBpW)	Factor (dB)	Measure-ment(dBpW)	Limit (dBpW)	Over (dB)	Detector	Comment
1	30.5200	21.12	9.84	30.96	45.02	-14.06	QP	
2	30.5200	13.66	9.84	23.50	35.02	-11.52	AVG	
3 *	33.3600	19.95	9.80	29.75	45.12	-15.37	QP	
4	33.3600	11.80	9.80	21.60	35.12	-13.52	AVG	
5	41.5600	19.20	8.95	28.15	45.43	-17.28	QP	
6	41.5600	11.49	8.95	20.44	35.43	-14.99	AVG	
7	50.1200	19.08	9.53	28.61	45.75	-17.14	QP	
8	50.1200	10.35	9.53	19.88	35.75	-15.87	AVG	
9	57.0000	18.34	9.36	27.70	46.00	-18.30	QP	
10	57.0000	9.74	9.36	19.10	36.00	-16.90	AVG	
11	69.4000	17.28	8.74	26.02	46.46	-20.44	QP	
12	69.4000	9.28	8.74	18.02	36.46	-18.44	AVG	



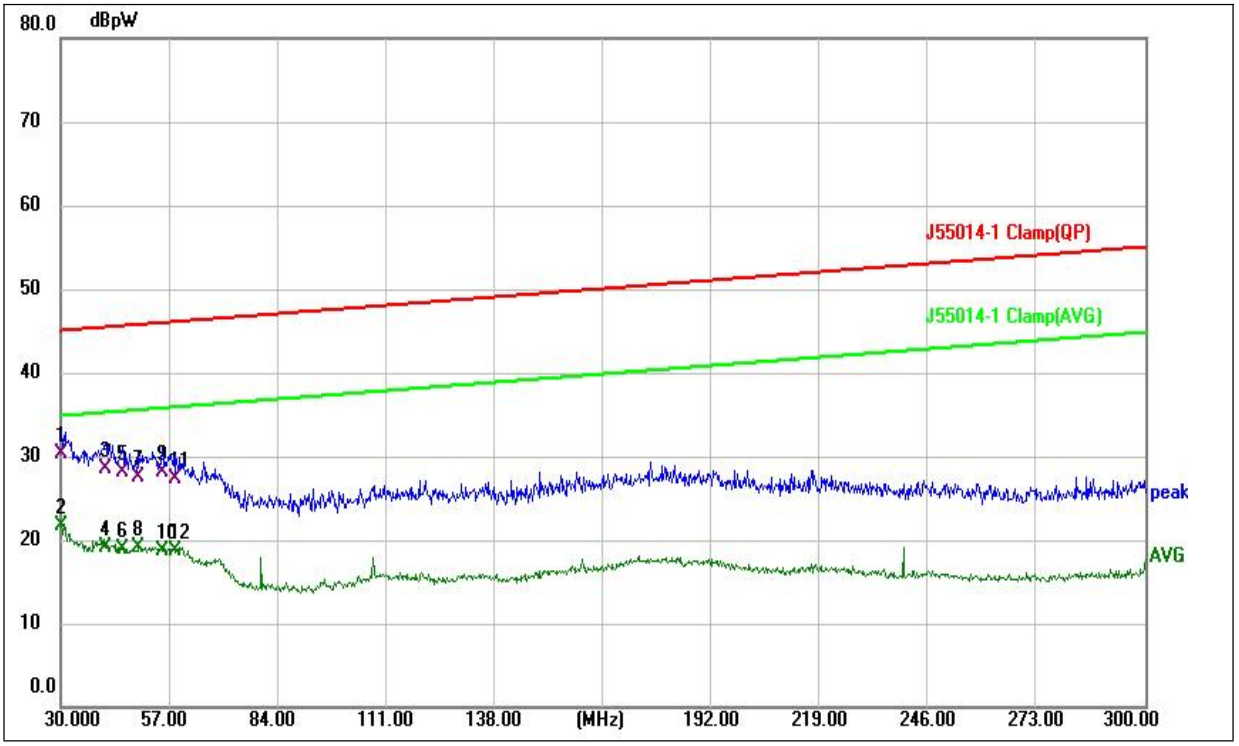
Site:	**843.3**		**Temperature(C):23.5(C)**
Limit:	**J55014-1 Clamp(QP)**		**Humidity(%):52.6%**
EUT:	**Deodorant Cat Litter Box**	**Test Time:**	**2022-06-06**
M/N.:	**SH2116**	**Power Rating:**	**AC 100V/60Hz**
Mode:	**Max power**	**Test Engineer:**	**Luffy**
Note:	**DC Line**		

No.	Frequency (MHz)	Reading Level(dBpW)	Factor (dB)	Measure-ment(dBpW)	Limit (dBpW)	Over (dB)	Detector	Comment
1	30.4000	19.96	9.84	29.80	45.01	-15.21	QP	
2	30.4000	12.35	9.84	22.19	35.01	-12.82	AVG	
3 *	37.5200	16.99	9.28	26.27	45.28	-19.01	QP	
4	37.5200	8.61	9.28	17.89	35.28	-17.39	AVG	
5	48.6400	17.26	9.47	26.73	45.69	-18.96	QP	
6	48.6400	8.92	9.47	18.39	35.69	-17.30	AVG	
7	57.8400	17.61	9.34	26.95	46.03	-19.08	QP	
8	57.8400	8.62	9.34	17.96	36.03	-18.07	AVG	
9	99.8000	17.33	6.72	24.05	47.59	-23.54	QP	
10	99.8000	10.47	6.72	17.19	37.59	-20.40	AVG	
11	153.1200	19.29	7.84	27.13	49.56	-22.43	QP	
12	153.1200	9.93	7.84	17.77	39.56	-21.79	AVG	



Site:	**843.3**		**Temperature(C):23.5(C)**
Limit:	**J55014-1 Clamp(QP)**		**Humidity(%):52.6%**
EUT:	**Deodorant Cat Litter Box**	**Test Time:**	**2022-06-06**
M/N.:	**SH2116**	**Power Rating:**	**AC 100V/60Hz**
Mode:	**Min power**	**Test Engineer:**	**Luffy**
Note:	**DC Line**		

No.	Frequency (MHz)	Reading Level(dBpW)	Factor (dB)	Measure-ment(dBpW)	Limit (dBpW)	Over (dB)	Detector	Comment
1	31.4800	19.41	9.83	29.24	45.05	-15.81	QP	
2	31.4800	10.46	9.83	20.29	35.05	-14.76	AVG	
3 *	42.1600	16.83	9.01	25.84	45.45	-19.61	QP	
4	42.1600	8.66	9.01	17.67	35.45	-17.78	AVG	
5	48.8800	16.96	9.48	26.44	45.70	-19.26	QP	
6	48.8800	8.61	9.48	18.09	35.70	-17.61	AVG	
7	56.9200	17.28	9.35	26.63	46.00	-19.37	QP	
8	56.9200	8.49	9.35	17.84	36.00	-18.16	AVG	
9	67.5600	17.29	8.66	25.95	46.39	-20.44	QP	
10	67.5600	9.03	8.66	17.69	36.39	-18.70	AVG	
11	96.3200	17.58	6.43	24.01	47.46	-23.45	QP	
12	96.3200	9.63	6.43	16.06	37.46	-21.40	AVG	



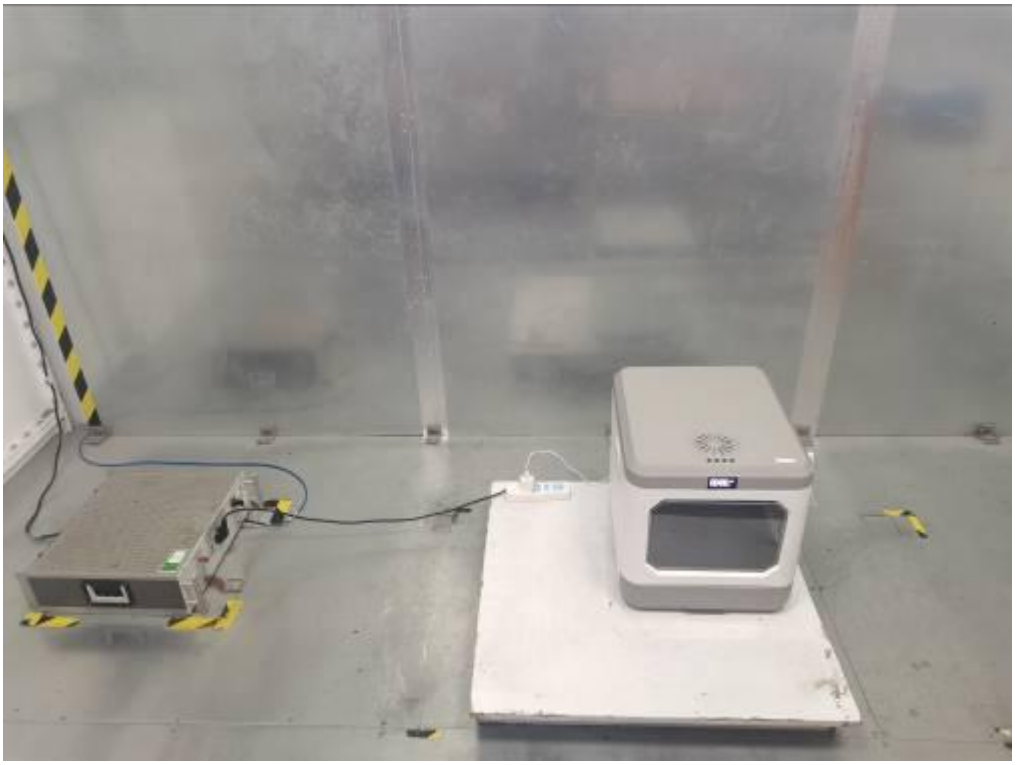
Site:	**843.3**		**Temperature(C):23.5(C)**
Limit:	**J55014-1 Clamp(QP)**		**Humidity(%):52.6%**
EUT:	**Deodorant Cat Litter Box**	**Test Time:**	**2022-06-06**
M/N.:	**SH2116**	**Power Rating:**	**AC 100V/60Hz**
Mode:	**Min power**	**Test Engineer:**	**Luffy**
Note:	**AC Line**		

No.	Frequency (MHz)	Reading Level(dBpW)	Factor (dB)	Measure-ment(dBpW)	Limit (dBpW)	Over (dB)	Detector	Comment
1	30.0000	20.39	9.85	30.24	45.00	-14.76	QP	
2	30.0000	11.95	9.85	21.80	35.00	-13.20	AVG	
3 *	41.1600	19.69	8.91	28.60	45.41	-16.81	QP	
4	41.1600	10.18	8.91	19.09	35.41	-16.32	AVG	
5	45.6000	18.72	9.33	28.05	45.58	-17.53	QP	
6	45.6000	9.64	9.33	18.97	35.58	-16.61	AVG	
7	49.6800	17.99	9.51	27.50	45.73	-18.23	QP	
8	49.6800	9.56	9.51	19.07	35.73	-16.66	AVG	
9	55.5600	18.69	9.39	28.08	45.95	-17.87	QP	
10	55.5600	9.25	9.39	18.64	35.95	-17.31	AVG	
11	58.6400	17.91	9.31	27.22	46.06	-18.84	QP	
12	58.6400	9.43	9.31	18.74	36.06	-17.32	AVG	

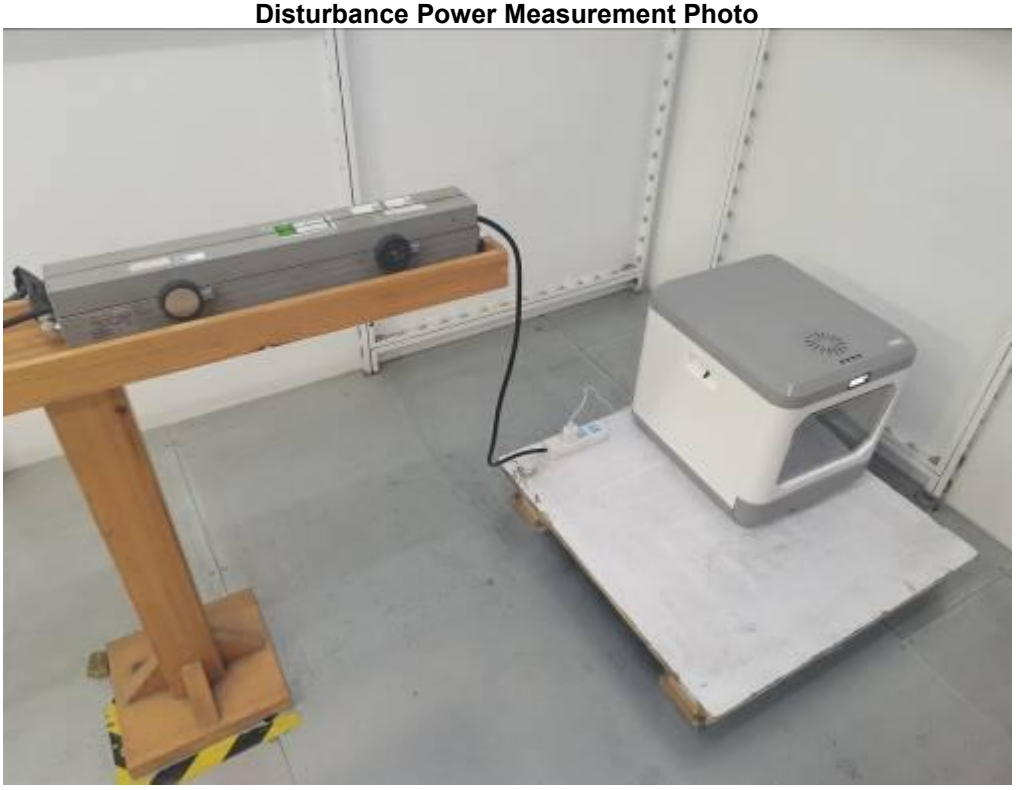
4. ATTACHMENT

4.1 EUT TEST PHOTO

Conducted Emission Measurement Photo



Disturbance Power Measurement Photo



4.2 EUT PHOTO

Figure 1. Overall view of unit

Figure 2. Overall view of unit

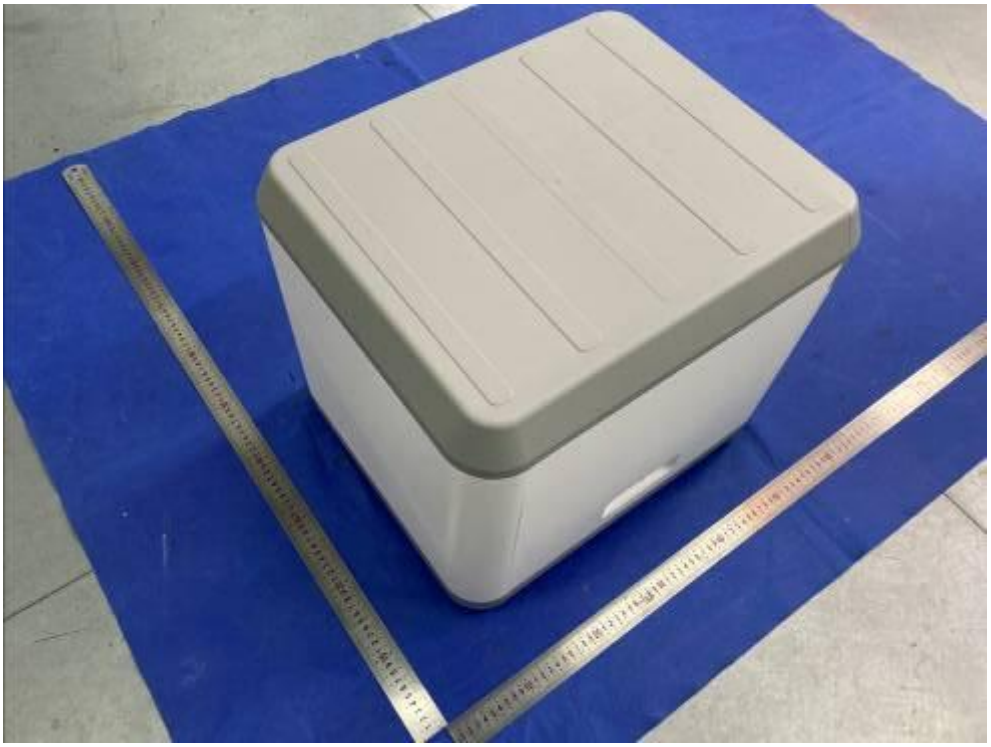


Figure 3. Overall view of unit

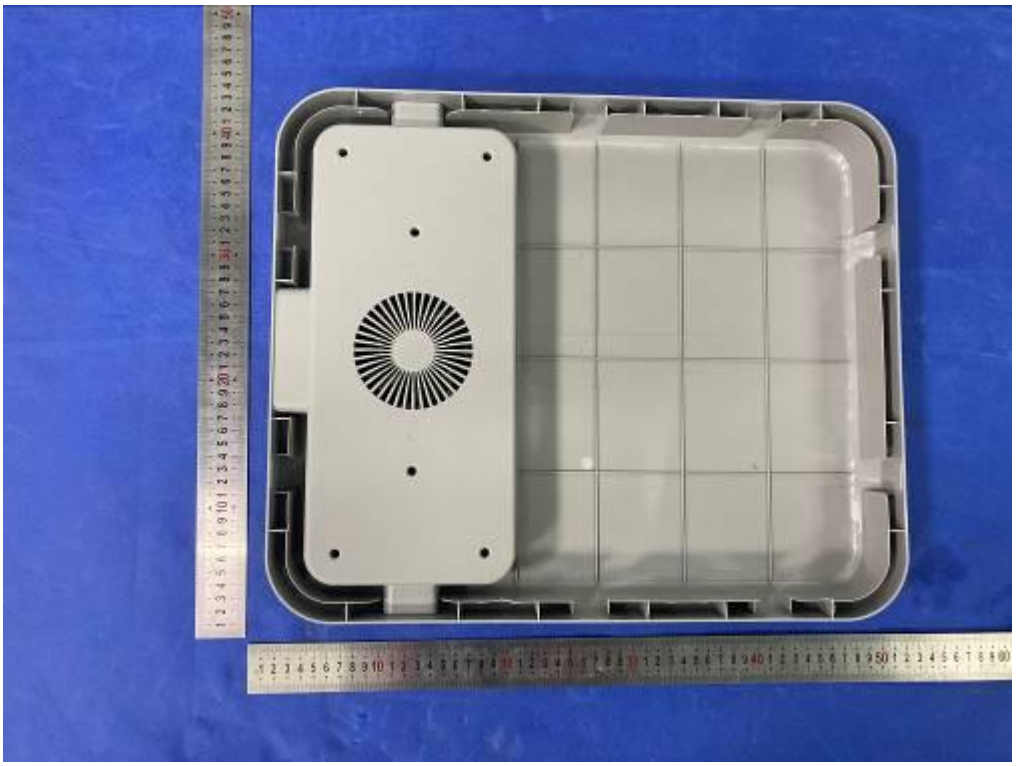


Figure 4. Inside view of unit

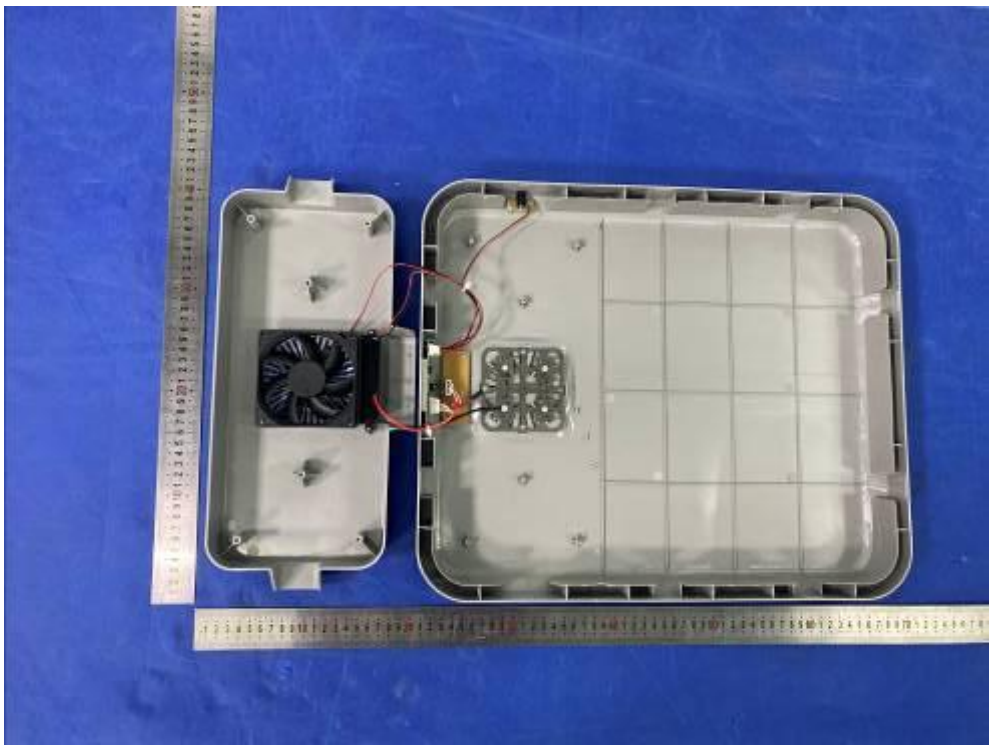


Figure 5. Inside view of unit

Figure 6. Inside view of unit

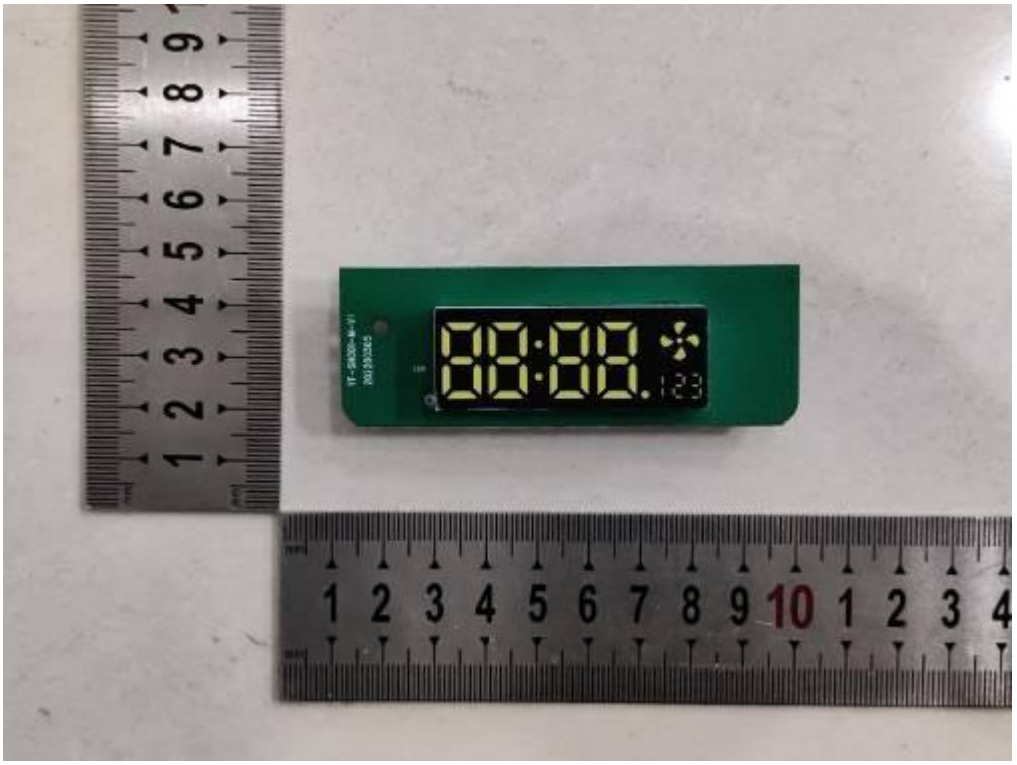


Figure 7. PCB view

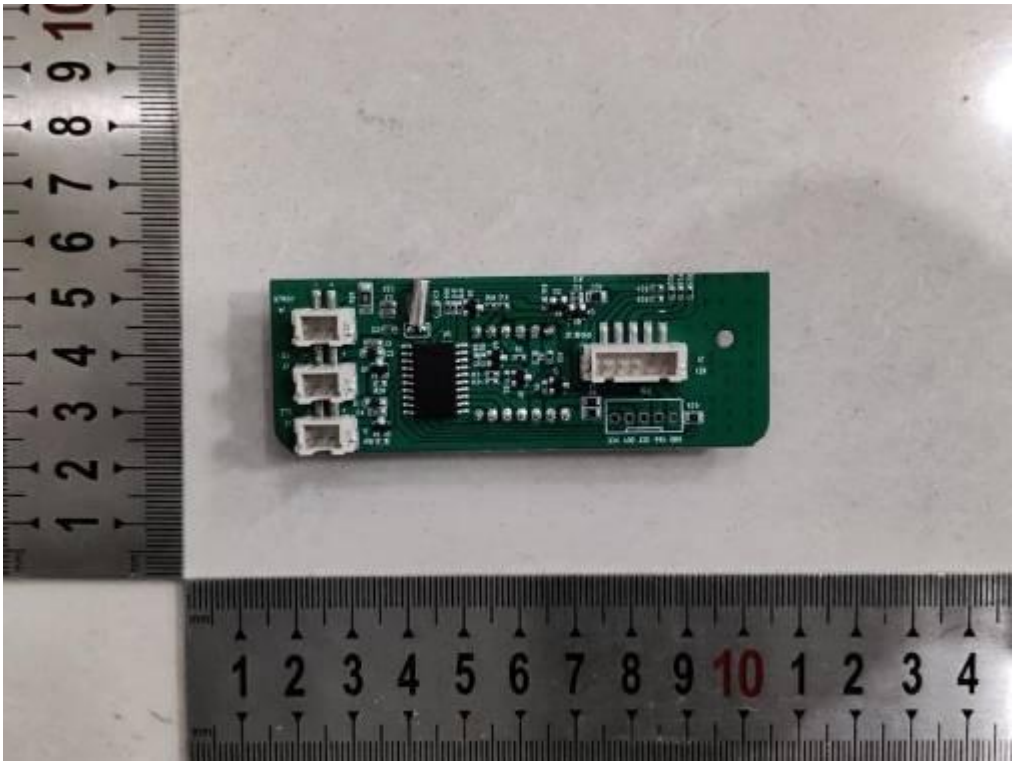


Figure 8. PCB view

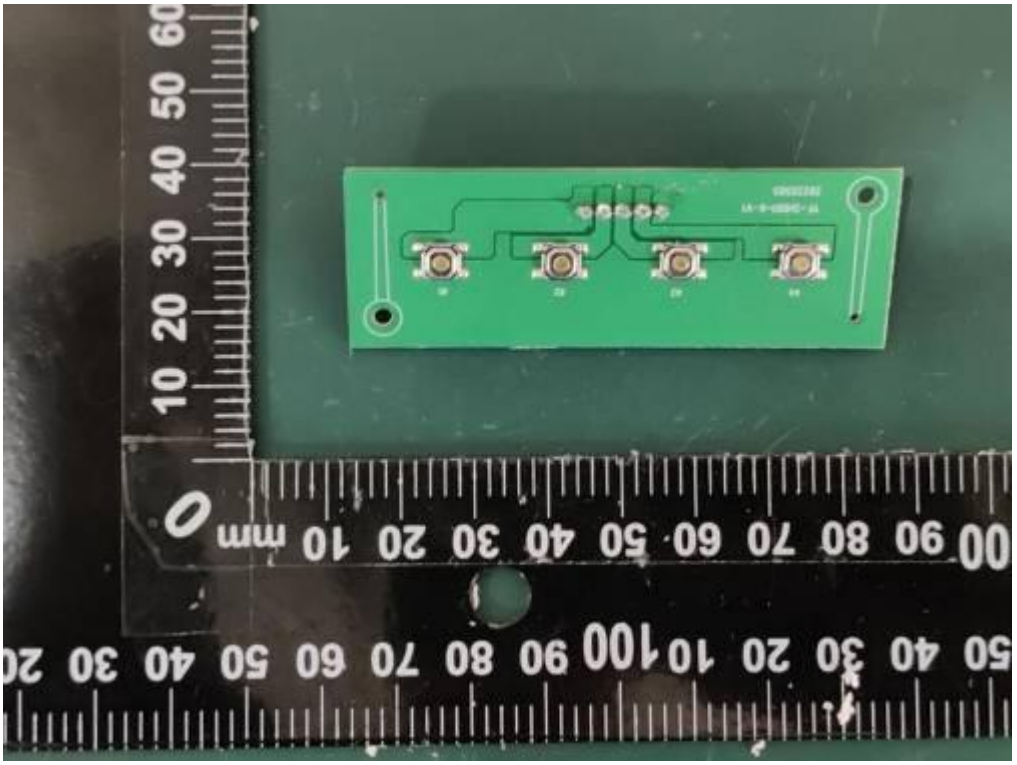


Figure 9. PCB view

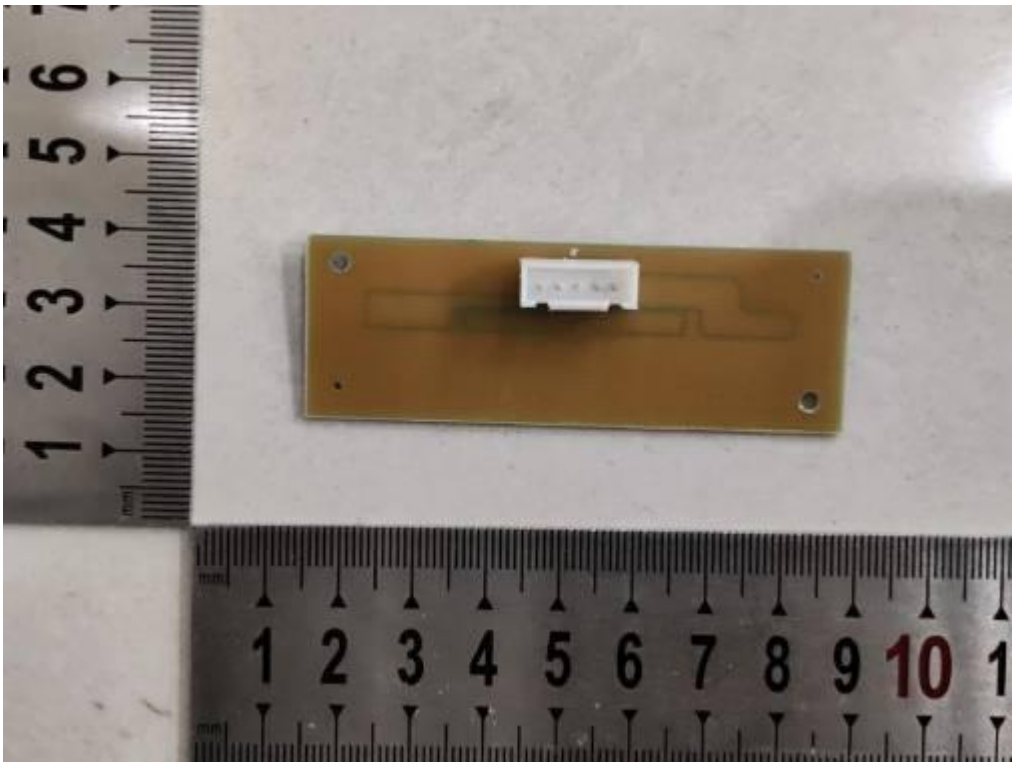


Figure 10. PCB view

Figure 11. Overall view of adapter

Figure 12. Overall view of adapter

********** **End of Page** **********