

FCC RADIO TEST REPORT

FCC ID: 2BDYI-CH-ICB016

Product: Automatic Cat Litter Box

Trade Mark: N/A

Model No.: CH-ICB016

Family Model: PN-CL05

Report No.: N26030400170E

Issue Date: Apr. 23, 2026

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Zhejiang Zhaohong New Materials Technology Co., Ltd.
Address : No. 5 Lianhong Road, Industrial Park, Yanguan Town, Haining City,
Jiaxing City, Zhejiang Province, P.R.China
Manufacturer's Name : Zhejiang Zhaohong New Materials Technology Co., Ltd.
Address : No. 5 Lianhong Road, Industrial Park, Yanguan Town, Haining City,
Jiaxing City, Zhejiang Province, P.R.China

Product description

Product name : Automatic Cat Litter Box

Trade Mark : N/A

Model and/or type reference : CH-ICB016

Family Model : PN-CL05

Test Sample Number : S2603100235-1#

Standards : FCC Part15.407

Test procedure ANSI C63.10-2020+Cor 1-2023
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 905462 D03 Client Without DFS New Rules v01r02
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests Mar. 04, 2026 ~ Apr. 23, 2026

Date of Issue Apr. 23, 2026

Test Result **Pass**

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Reviewed By : Aaron Cheng
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Approved By : Alex Li
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(Manager)

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Revision History

Report No.	Version	Description	Issued Date
N26030400170E	Rev.01	Initial issue of report	Apr. 23, 2026

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.209(a), 15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4) 15.407(b)(8)(9)	Spurious Radiated Emissions	PASS	
15.407 (a)	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4)	Band Edge	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.407(g)	Frequency Stability Measurement	PASS	
15.407(h)	Dynamic Frequency Selection(DFS)	PASS	
15.203	Antenna Requirement	PASS	
15.407(c)	Automatically discontinue transmission	PASS	(Note 2)

NOTE:

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

(2) The product is a client device, and the data transmission is limited by the AP.
When the information to be sent is missing or the operation fails,
the device will automatically stop sending and directly connect to the AP correctly again.

1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at No. 24 Xinfu East Road Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.
CAB identifier:CN0074

FCC- Accredited : Test Firm Registration Number: 463705.
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : No. 24 Xinfu East Road Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China.

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted, PSD	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	Occupied bandwidth	$\pm 4.7\%$
5	All emissions, radiated(9KHz~30MHz)	$\pm 6\text{dB}$
6	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
7	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
8	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
9	Temperature	$\pm 0.5^\circ\text{C}$
10	Humidity	$\pm 2\%$
11	Radio Frequency	$\pm 0.2\text{ppm}$
12	Occupied bandwidth	$\pm 4.7\%$
13	Time	$\pm 2.5\%$

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Automatic Cat Litter Box	
Trade Mark	N/A	
Model Name	CH-ICB016	
Family Model	PN-CL05	
Model Difference	All models have the same circuit and RF module, except for model names and colors.	
FCC ID	2BDYI-CH-ICB016	
Product Description	Mode Supported	☒ 802.11a/n (20MHz channel bandwidth) ☒ 802.11n (40MHz channel bandwidth)
	Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps; 802.11n (20MHz): MCS0-15, up to 144Mbps 802.11n (40MHz): MCS0-15, up to 300Mbps
	Modulation	802.11a:OFDM (BPSK / QPSK / 16QAM/64QAM) 802.11n:OFDM (QPSK/BPSK/16QAM/64QAM)
	Operating Frequency Range	☒ U-NII-1: 5150 MHz ~5250MHz ☒ U-NII-2A: 5250MHz~5350MHz ☒ U-NII-2C: 5470MHz~5725MHz ☒ U-NII-3: 5725 MHz ~5850 MHz
	Antenna Type	PCB antenna
	Antenna Gain	2.64dBi
	Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.	
	Adapter	Model: JYSP120150 Input: 100-240V~50/60Hz 0.75A Max Output: 12.0V---1.5A 18.0W MAX
Battery	N/A	
Power supply	DC 12V from adapter	
HW Version	N/A	
SW Version	N/A	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Frequency and Channel list:

Band	20MHz		40MHz	
	Channel	Frequency	Channel	Frequency
U-NII-1	36	5180 MHz	38	5190 MHz
	40	5200 MHz	46	5230 MHz
	44	5220 MHz		
	48	5240 MHz		
U-NII-2A	52	5260 MHz	54	5270 MHz
	56	5280 MHz	62	5310 MHz
	60	5300 MHz		
	64	5320 MHz		
U-NII-2C	100	5500 MHz	102	5510 MHz
	104	5520 MHz	110	5550 MHz
	108	5540 MHz	118	5590 MHz
	112	5560 MHz	126	5630 MHz
	116	5580 MHz	134	5670 MHz
	120	5600 MHz		
	124	5620 MHz		
	128	5640 MHz		
	132	5660 MHz		
	136	5680 MHz		
U-NII-3	140	5700 MHz		
	149	5745 MHz	151	5755 MHz
	153	5765 MHz	159	5795 MHz
	157	5785 MHz		
	161	5805 MHz		
	165	5825 MHz		

1.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission 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 emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a/n CH36/ CH40/CH48/CH52/CH56/CH64/CH100/CH120 /CH140/CH149/CH157/CH165
Mode 3	802.11n40 CH38/CH46/CH54/CH62/CH102/CH118/CH134 /CH151/CH159

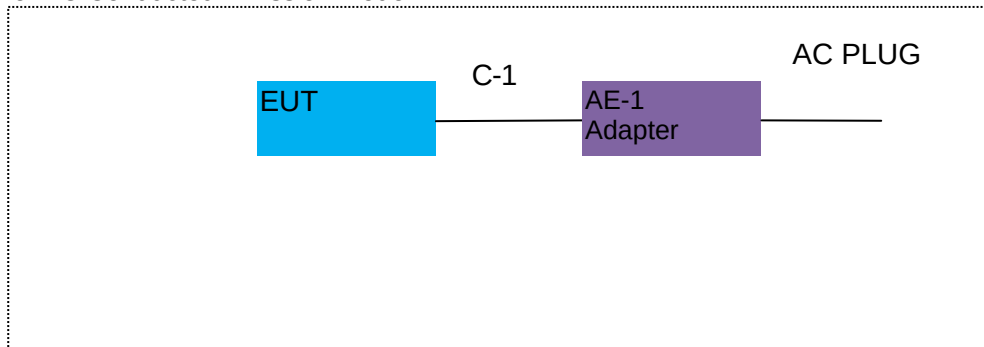
For Conducted Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a/n CH36/ CH40/CH48/CH52/CH56/CH64/CH100/CH120 /CH140/CH149/CH157/CH165
Mode 3	802.11n40 CH38/CH46/CH54/CH62/CH102/CH118/CH134 /CH151/CH159

Note:

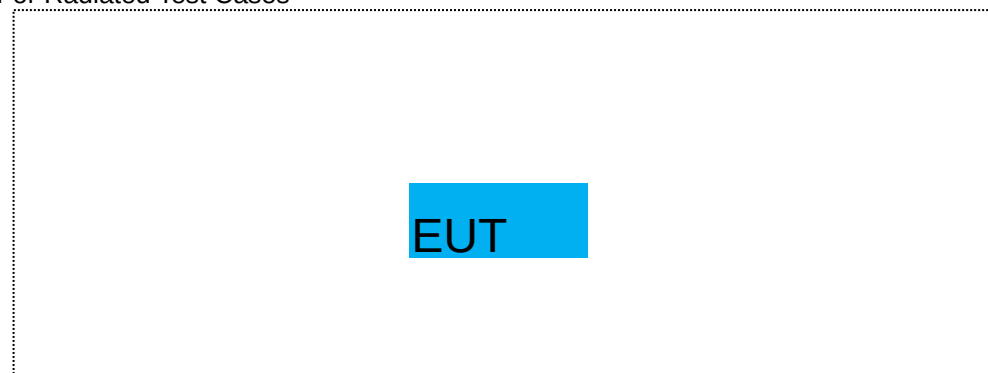
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

1.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

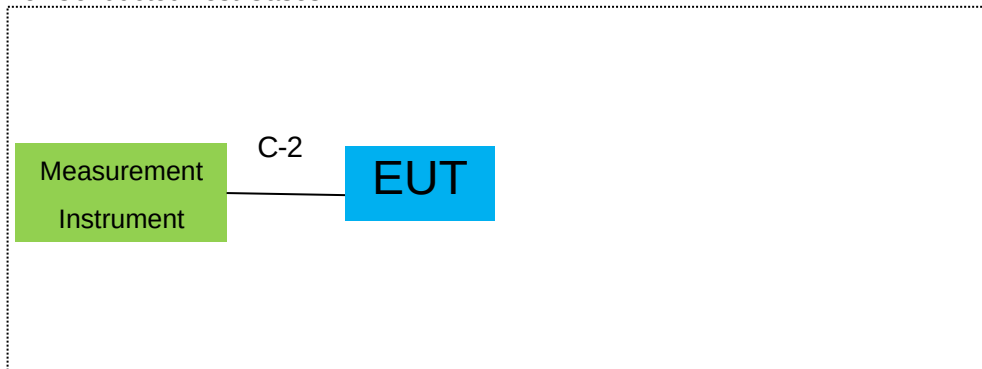
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

1.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	JYSP120150	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	DC Cable	YES	NO	1.0m
C-2	RF Cable	YES	NO	0.1m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) During the battery power test, the battery is fully charged.

1.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2025.04.17 2026.04.15	2026.04.16 2027.04.14	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025.04.17 2026.04.08	2026.04.16 2027.04.07	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2025.04.17 2026.04.08	2026.04.16 2027.04.07	1 year
4	Test Receiver	R&S	ESPI7	101318	N/A	N/A	N/A
5	Bilog Antenna	TESEQ	CBL6111D	31216	N/A	N/A	N/A
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835SE	980246	2025.04.17 2026.04.08	2026.04.16 2027.04.07	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN084	2025.04.17 2026.04.08	2026.04.16 2027.04.07	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2023.05.06	2026.05.05	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2025.04.17 2026.04.08	2026.04.16 2027.04.07	1 year
2	LISN	R&S	ENV216	101313	2025.04.16 2026.04.08	2026.04.15 2027.04.07	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2025.04.16 2026.04.08	2026.04.15 2027.04.07	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest

2. EMC EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 APPLICABLE STANDARD

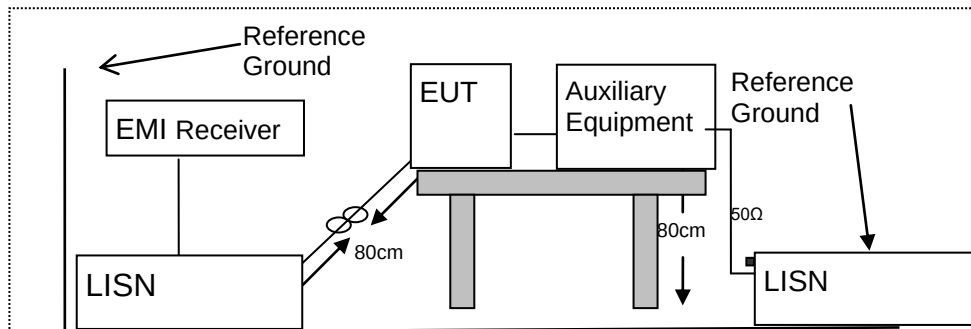
According to FCC Part 15.207(a)

2.1.2 CONFORMANCE LIMIT

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
2. The lower limit shall apply at the transition frequencies
3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

2.1.3 TEST CONFIGURATION



2.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor 1-2023 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

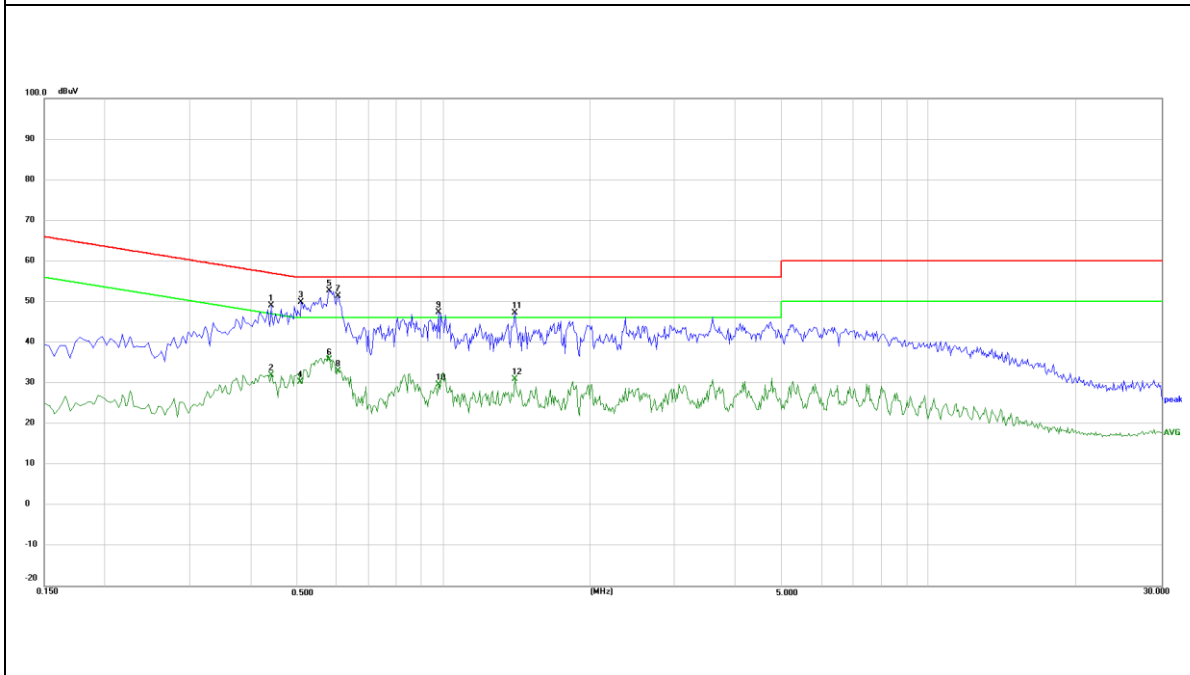
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. 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 40cm long.
5. 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.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

EUT :	Automatic Cat Litter Box	Model Name :	CH-ICB016
Temperature :	24.6℃	Relative Humidity :	54.8%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 12V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5G WIFI)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.4420	29.64	19.50	49.14	57.02	-7.88	peak
0.4420	12.48	19.50	31.98	47.02	-15.04	AVG
0.5100	30.43	19.50	49.93	56.00	-6.07	peak
0.5060	10.86	19.50	30.36	46.00	-15.64	AVG
0.5820	33.19	19.50	52.69	56.00	-3.31	peak
0.5820	16.18	19.50	35.68	46.00	-10.32	AVG
0.6060	31.91	19.51	51.42	56.00	-4.58	peak
0.6060	13.36	19.51	32.87	46.00	-13.13	AVG
0.9780	27.81	19.52	47.33	56.00	-8.67	peak
0.9780	10.06	19.52	29.58	46.00	-16.42	AVG
1.4020	27.64	19.52	47.16	56.00	-8.84	peak
1.4020	11.40	19.52	30.92	46.00	-15.08	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

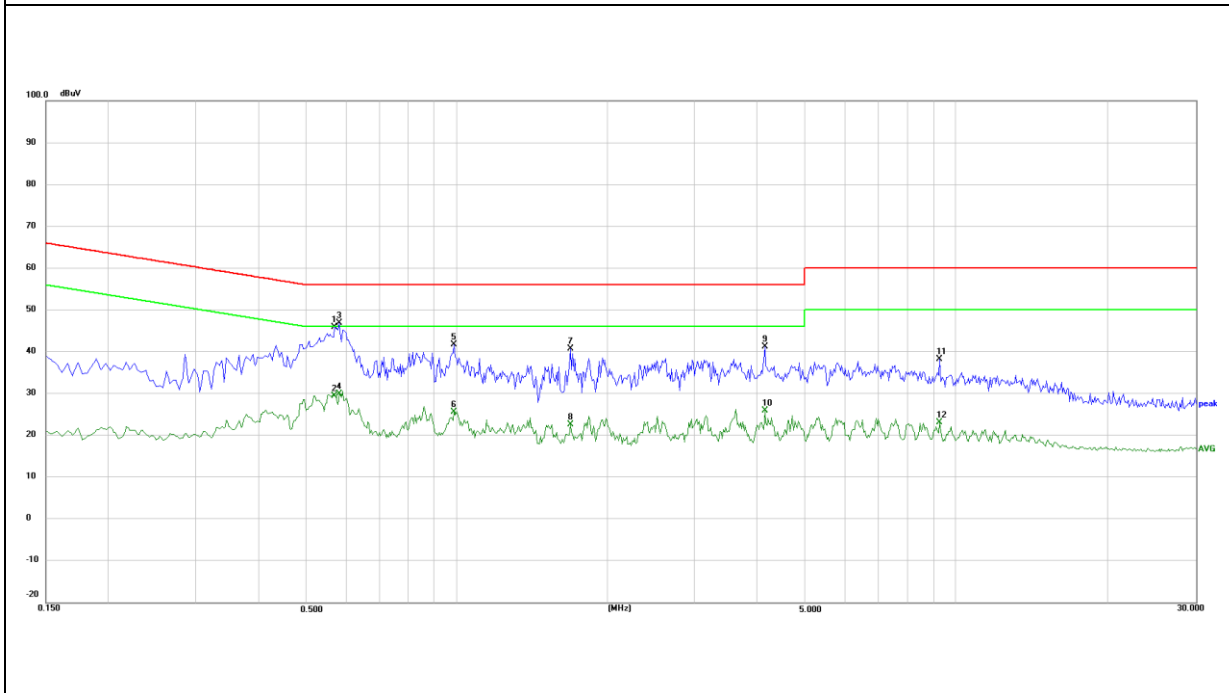


EUT :	Automatic Cat Litter Box	Model Name :	CH-ICB016
Temperature :	24.6℃	Relative Humidity :	54.8%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 12V from Adapter AC 120V/60Hz	Test Mode :	Mode 6(5G WIFI)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.5700	26.38	19.53	45.91	56.00	-10.09	peak
0.5700	9.84	19.53	29.37	46.00	-16.63	AVG
0.5820	27.39	19.53	46.92	56.00	-9.08	peak
0.5820	10.49	19.53	30.02	46.00	-15.98	AVG
0.9860	22.18	19.52	41.70	56.00	-14.30	peak
0.9860	6.14	19.52	25.66	46.00	-20.34	AVG
1.6860	21.20	19.50	40.70	56.00	-15.30	peak
1.6860	3.13	19.50	22.63	46.00	-23.37	AVG
4.1140	21.66	19.58	41.24	56.00	-14.76	peak
4.1140	6.35	19.58	25.93	46.00	-20.07	AVG
9.2100	18.57	19.63	38.20	60.00	-21.80	peak
9.2100	3.51	19.63	23.14	50.00	-26.86	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



2.2 RADIATED EMISSION MEASUREMENT

2.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(b) and 15.209&15.205

2.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407 (b) (9) (10) : radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

Undesirable emission limits. Except as shown in paragraph (b)(1)(2)(3)(4) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

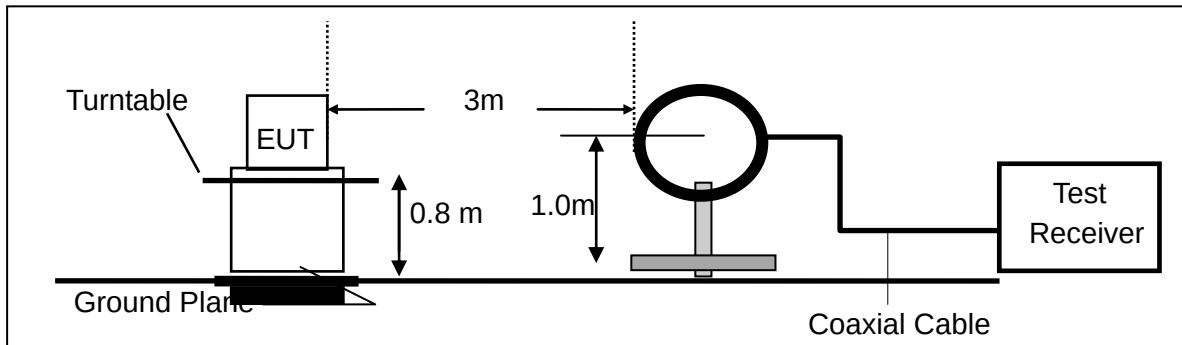
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

2.2.3 MEASURING INSTRUMENTS

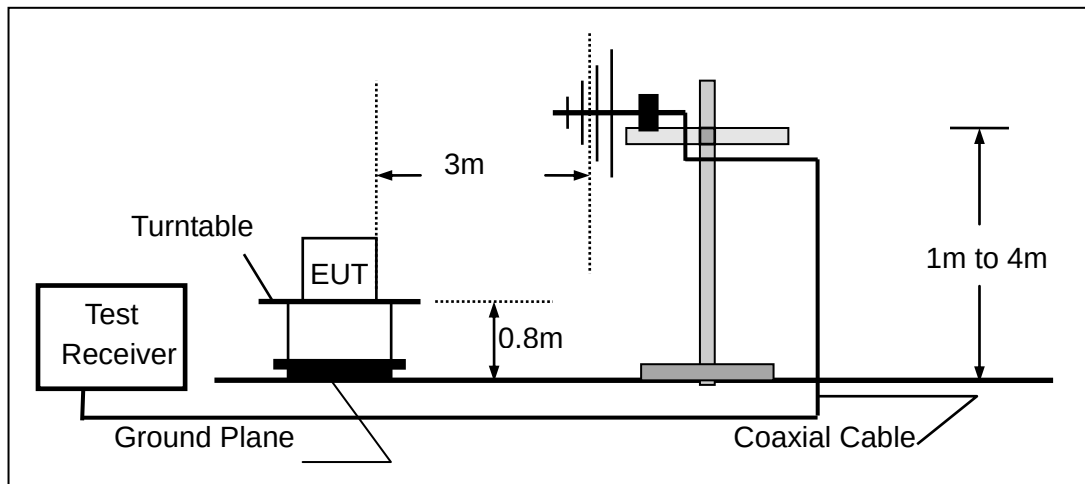
The Measuring equipment is listed in the section 6.3 of this test report.

2.2.4 TEST CONFIGURATION

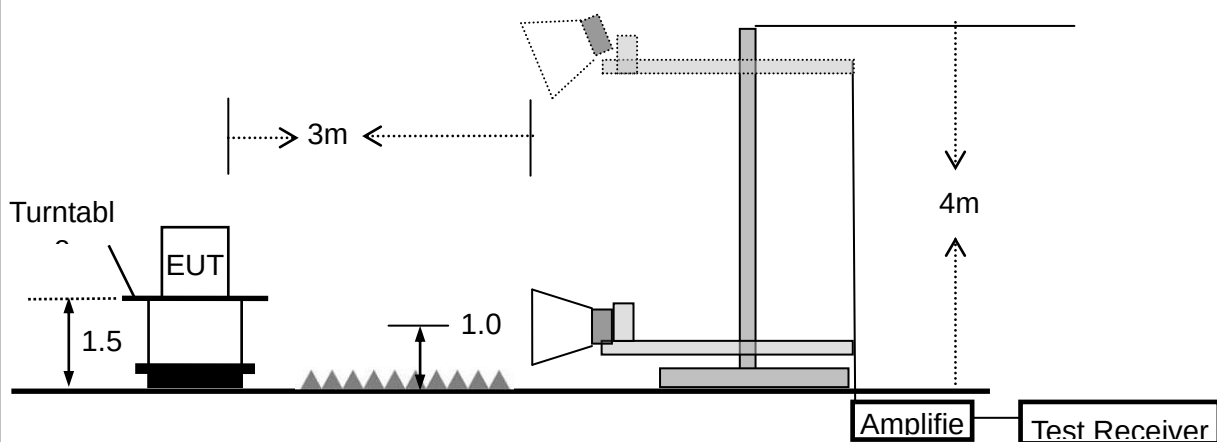
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



2.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020+Cor 1-2023. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor 1-2023 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

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

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

2.2.6 TEST RESULTS (9KHZ – 30 MHZ)

EUT :	Automatic Cat Litter Box	Model Name :	CH-ICB016
Temperature :	25 °C	Relative Humidity :	56%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

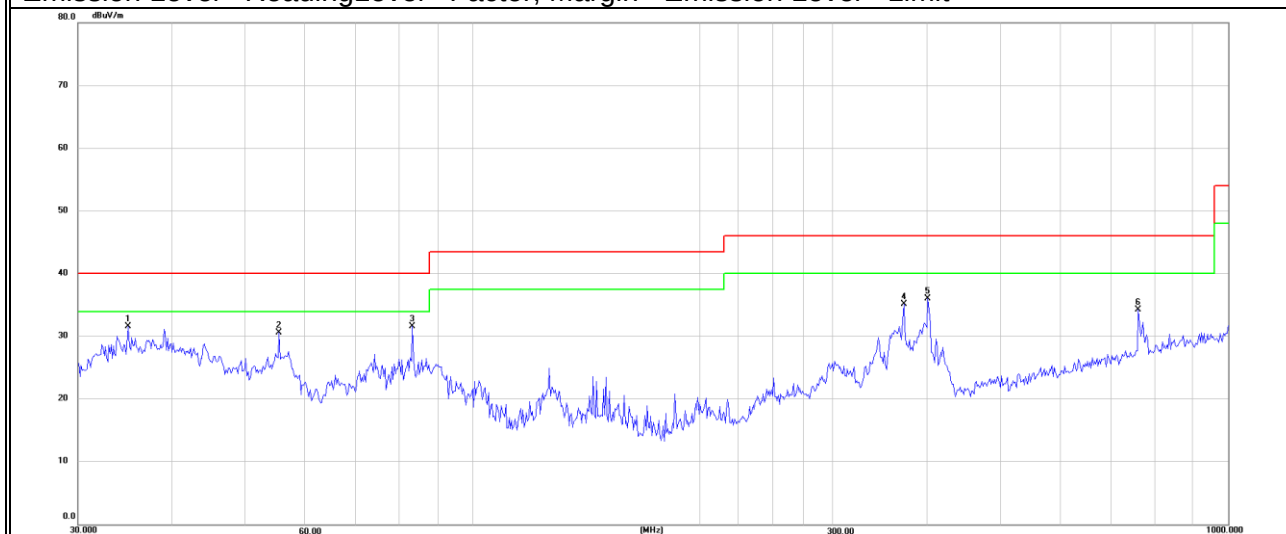
2.2.7 TEST RESULTS (30MHZ – 1GHZ)

EUT :	Automatic Cat Litter Box	Model Name :	CH-ICB016
Temperature :	25.3 °C	Relative Humidity :	53%
Pressure :	1010hPa	Test Mode :	802.11a-5180MHz (5G WIFI)
Test Voltage :	DC 12V from Adapter AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	35.0048	14.49	17.12	31.61	40.00	-8.39	peak
V	55.4147	11.04	19.57	30.61	40.00	-9.39	peak
V	83.2297	16.91	14.72	31.63	40.00	-8.37	peak
V	372.0045	13.35	21.78	35.13	46.00	-10.87	peak
V	400.4318	13.47	22.59	36.06	46.00	-9.94	peak
V	760.7034	6.27	28.03	34.30	46.00	-11.70	peak

Remark:

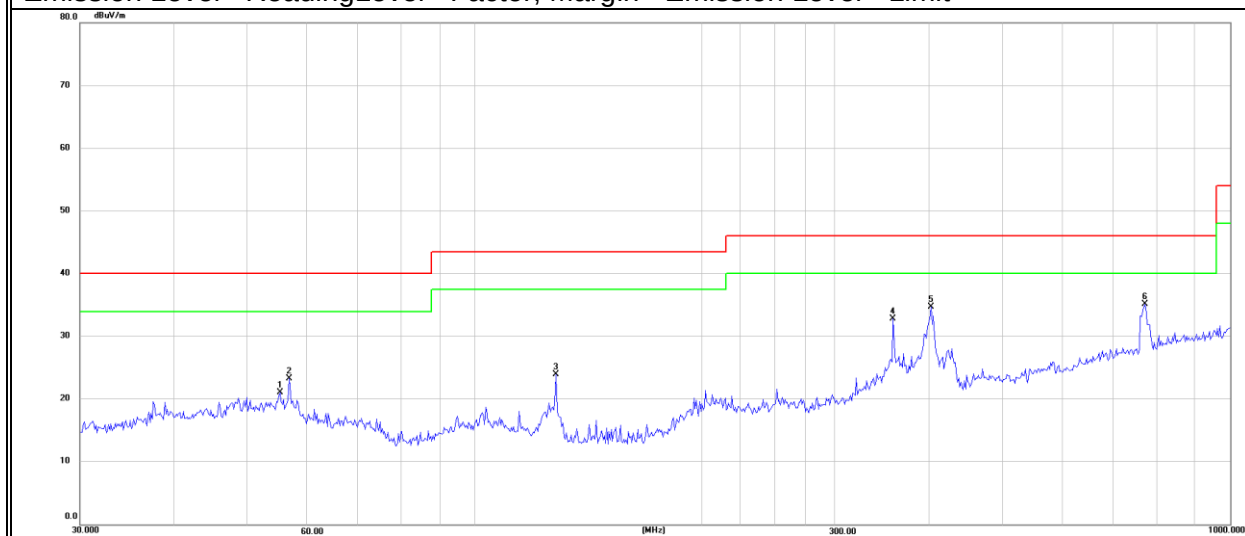
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	55.2207	1.48	19.62	21.10	40.00	-18.90	peak
H	56.7916	4.07	19.24	23.31	40.00	-16.69	peak
H	128.1130	9.04	14.99	24.03	43.50	-19.47	peak
H	357.9286	11.59	21.26	32.85	46.00	-13.15	peak
H	401.8383	12.11	22.62	34.73	46.00	-11.27	peak
H	771.4483	6.94	28.27	35.21	46.00	-10.79	peak

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



2.2.8 TEST RESULTS (1GHz-18GHz)

EUT:	Automatic Cat Litter Box	Model No.:	CH-ICB016
Temperature:	25.5 °C	Relative Humidity :	51.5%
Test Mode:	TX(5.2G) - 802.11a	Test By:	Kieron Luo

802.11a 5180MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1272.000	57.58	-17.86	39.72	68.20	-28.48	peak
V	1302.600	49.66	-17.85	31.81	54.00	-22.19	AVG
V	2071.850	46.96	-12.71	34.25	68.20	-33.95	AVG
V	2088.850	54.63	-12.57	42.06	68.20	-26.14	peak
V	3065.500	53.66	-9.59	44.07	68.20	-24.13	peak
V	3351.950	45.62	-9.36	36.26	54.00	-17.74	AVG
V	6907.075	54.15	-3.85	50.30	68.20	-17.90	peak
V	6907.075	51.94	-3.85	48.09	68.20	-20.11	AVG
V	9983.225	47.63	1.09	48.72	68.20	-19.48	peak
V	10852.775	37.52	3.55	41.07	54.00	-12.93	AVG
V	13395.975	37.98	5.07	43.05	54.00	-10.95	AVG
V	13440.600	45.69	5.25	50.94	68.20	-17.26	peak
V	17991.925	41.70	13.58	55.28	74.00	-18.72	peak
V	17991.925	33.67	13.58	47.25	54.00	-6.75	AVG

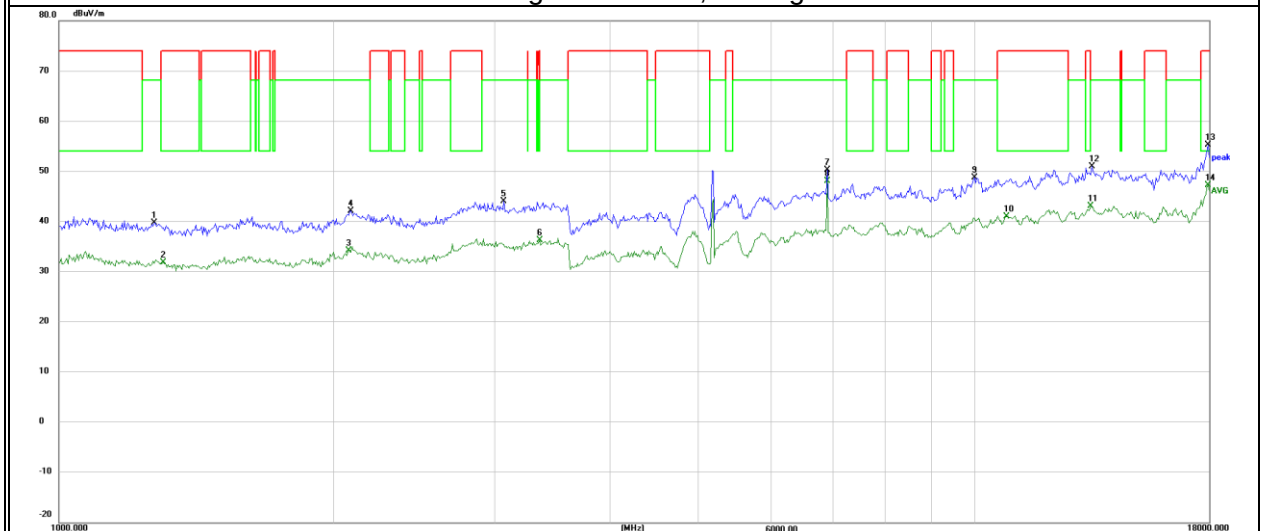
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1289.000	58.56	-17.85	40.71	68.20	-27.49	peak
H	1307.275	49.95	-17.86	32.09	54.00	-21.91	AVG
H	2109.675	55.83	-12.54	43.29	68.20	-24.91	peak
H	2143.250	47.52	-12.73	34.79	68.20	-33.41	AVG
H	2861.925	46.10	-10.16	35.94	54.00	-18.06	AVG
H	2900.600	54.27	-9.99	44.28	68.20	-23.92	peak
H	6907.075	49.74	-3.85	45.89	68.20	-22.31	peak
H	6907.075	45.24	-3.85	41.39	68.20	-26.81	AVG
H	9397.150	39.00	0.24	39.24	54.00	-14.76	AVG
H	10035.925	47.17	1.51	48.68	68.20	-19.52	peak
H	13388.325	37.50	5.09	42.59	54.00	-11.41	AVG
H	13479.700	45.80	5.45	51.25	68.20	-16.95	peak
H	17952.400	41.40	13.39	54.79	74.00	-19.21	peak
H	17900.550	33.19	13.14	46.33	54.00	-7.67	AVG

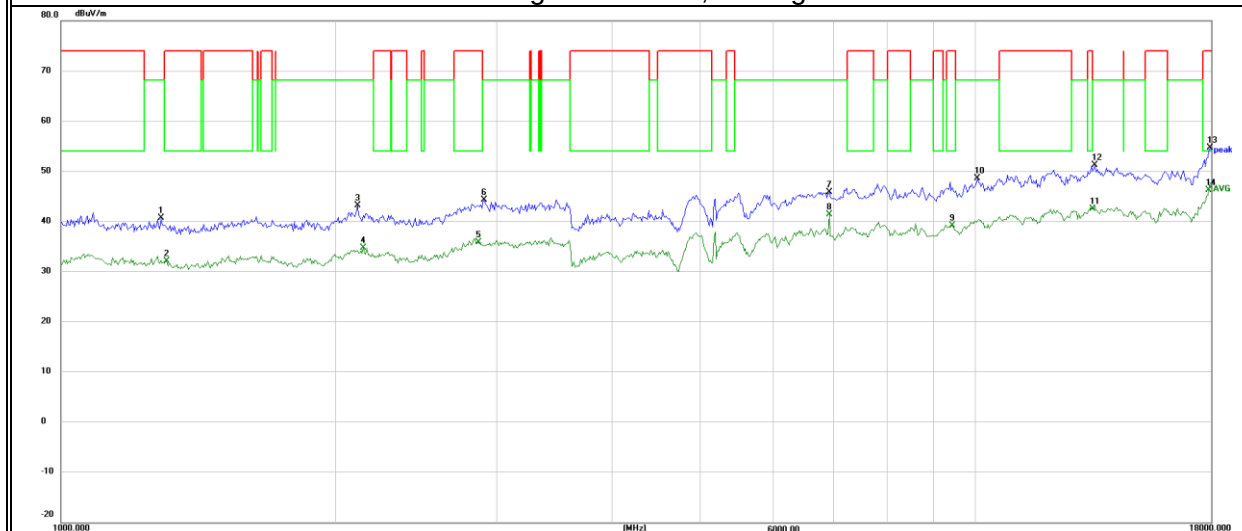
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11a 5200MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1277.525	57.70	-17.87	39.83	68.20	-28.37	peak
V	1302.175	49.74	-17.86	31.88	54.00	-22.12	AVG
V	2106.700	54.50	-12.51	41.99	68.20	-26.21	peak
V	2130.925	46.89	-12.66	34.23	68.20	-33.97	AVG
V	3250.375	53.02	-8.97	44.05	68.20	-24.15	peak
V	3346.425	45.18	-9.35	35.83	54.00	-18.17	AVG
V	6586.200	49.42	-3.28	46.14	68.20	-22.06	peak
V	6798.275	42.00	-3.23	38.77	68.20	-29.43	AVG
V	9397.575	39.37	0.24	39.61	54.00	-14.39	AVG
V	10041.025	47.04	1.56	48.60	68.20	-19.60	peak
V	13365.375	37.37	5.14	42.51	54.00	-11.49	AVG
V	14201.775	45.62	5.70	51.32	68.20	-16.88	peak
V	17997.875	42.61	13.60	56.21	74.00	-17.79	peak
V	17997.875	34.14	13.60	47.74	54.00	-6.26	AVG

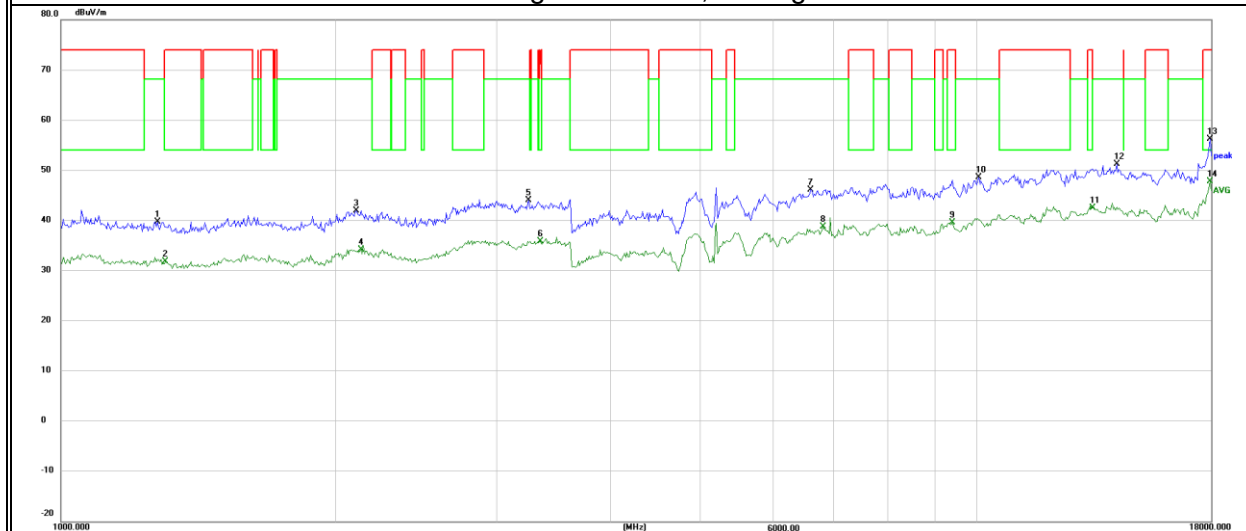
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1108.800	51.62	-18.12	33.50	54.00	-20.50	AVG
H	1167.450	59.43	-18.74	40.69	74.00	-33.31	peak
H	1613.275	49.82	-16.49	33.33	54.00	-20.67	AVG
H	1638.350	56.78	-16.68	40.10	68.20	-28.10	peak
H	3037.450	52.84	-9.57	43.27	68.20	-24.93	peak
H	3351.950	45.08	-9.36	35.72	54.00	-18.28	AVG
H	4429.325	49.10	-7.69	41.41	68.20	-26.79	peak
H	4552.150	42.48	-7.68	34.80	54.00	-19.20	AVG
H	6933.850	52.56	-3.68	48.88	68.20	-19.32	peak
H	6933.850	50.06	-3.68	46.38	68.20	-21.82	AVG
H	12137.550	37.86	4.68	42.54	54.00	-11.46	AVG
H	13114.625	45.34	4.76	50.10	68.20	-18.10	peak
H	17993.625	41.82	13.58	55.40	74.00	-18.60	peak
H	17993.625	33.40	13.58	46.98	54.00	-7.02	AVG

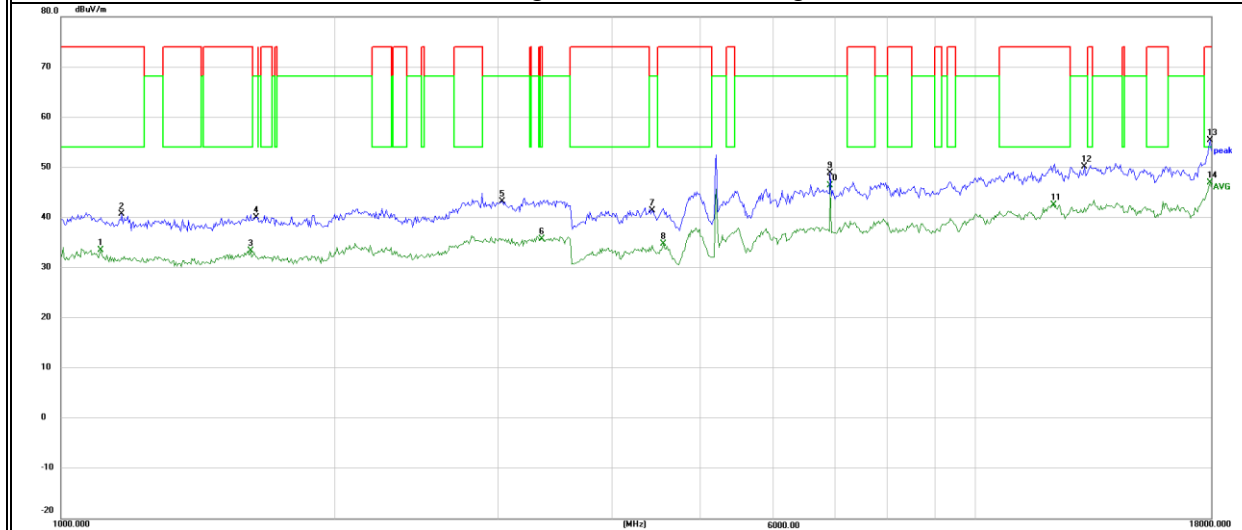
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11a 5240MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1299.625	57.59	-17.85	39.74	68.20	-28.46	peak
V	1398.225	50.54	-17.99	32.55	54.00	-21.45	AVG
V	2152.600	54.73	-12.82	41.91	68.20	-26.29	peak
V	2246.100	47.00	-13.10	33.90	54.00	-20.10	AVG
V	3280.125	53.29	-9.23	44.06	68.20	-24.14	peak
V	3354.075	45.06	-9.37	35.69	54.00	-18.31	AVG
V	6704.775	49.03	-2.92	46.11	68.20	-22.09	peak
V	6986.975	42.84	-3.87	38.97	68.20	-29.23	AVG
V	10458.375	47.25	1.52	48.77	68.20	-19.43	peak
V	10632.200	38.22	2.60	40.82	54.00	-13.18	AVG
V	13386.200	38.14	5.10	43.24	54.00	-10.76	AVG
V	13423.600	45.84	5.18	51.02	68.20	-17.18	peak
V	17955.800	41.71	13.41	55.12	74.00	-18.88	peak
V	17955.800	34.44	13.41	47.85	54.00	-6.15	AVG

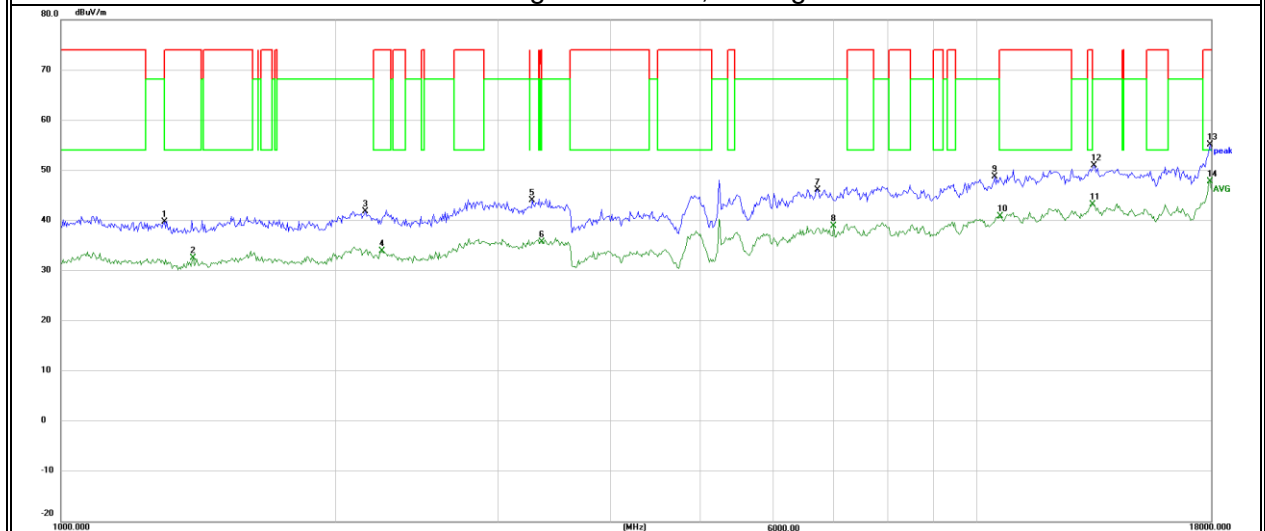
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1286.450	57.37	-17.86	39.51	68.20	-28.69	peak
H	1306.425	50.06	-17.87	32.19	54.00	-21.81	AVG
H	2071.425	54.85	-12.71	42.14	68.20	-26.06	peak
H	2201.475	47.30	-13.73	33.57	54.00	-20.43	AVG
H	3087.600	53.18	-9.56	43.62	68.20	-24.58	peak
H	3355.775	44.89	-9.38	35.51	54.00	-18.49	AVG
H	6986.975	52.61	-3.87	48.74	68.20	-19.46	peak
H	6986.975	50.01	-3.87	46.14	68.20	-22.06	AVG
H	9399.700	39.36	0.25	39.61	54.00	-14.39	AVG
H	9681.475	47.07	0.91	47.98	68.20	-20.22	peak
H	13353.475	38.41	5.15	43.56	54.00	-10.44	AVG
H	14243.425	45.09	5.75	50.84	68.20	-17.36	peak
H	17981.300	42.03	13.51	55.54	74.00	-18.46	peak
H	17899.700	33.51	13.13	46.64	54.00	-7.36	AVG

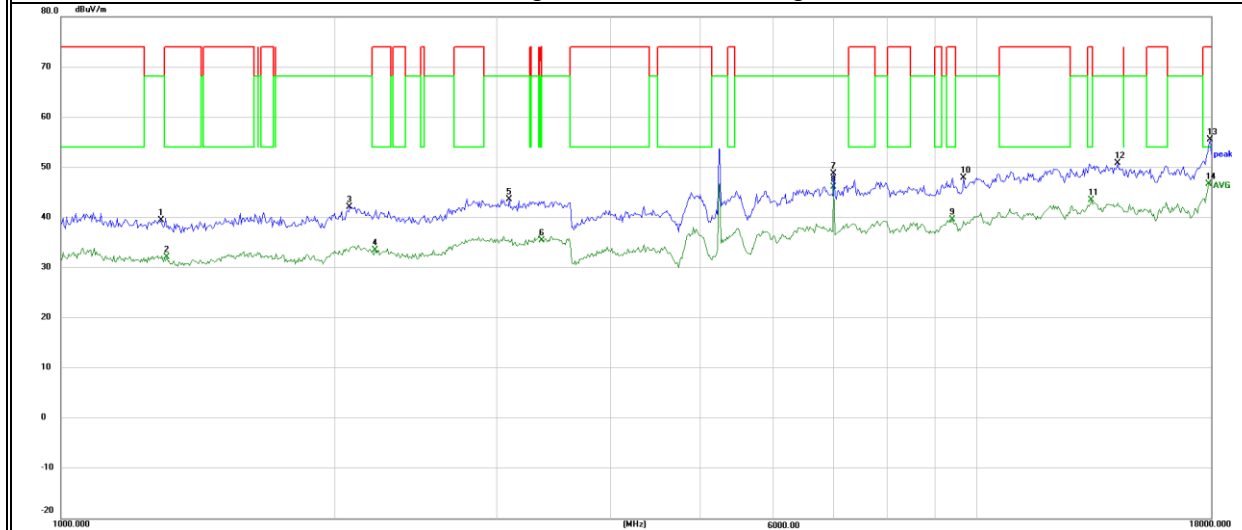
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



EUT:	Automatic Cat Litter Box	Model No.:	CH-ICB016
Temperature:	25.5 °C	Relative Humidity :	51.5%
Test Mode:	TX(5.3G) - 802.11a	Test By:	Kieron Luo

802.11a 5260MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1265.200	58.41	-17.86	40.55	68.20	-27.65	peak
V	1309.825	50.03	-17.87	32.16	54.00	-21.84	AVG
V	2087.150	55.08	-12.59	42.49	68.20	-25.71	peak
V	2212.950	47.33	-13.56	33.77	54.00	-20.23	AVG
V	2867.875	46.38	-10.12	36.26	54.00	-17.74	AVG
V	2969.450	53.31	-9.85	43.46	68.20	-24.74	peak
V	5860.300	43.08	-5.12	37.96	68.20	-30.24	AVG
V	5868.800	51.84	-5.07	46.77	68.20	-21.43	peak
V	9398.000	39.38	0.24	39.62	54.00	-14.38	AVG
V	9846.375	46.37	1.07	47.44	68.20	-20.76	peak
V	13374.725	37.93	5.11	43.04	54.00	-10.96	AVG
V	13850.300	45.90	5.14	51.04	68.20	-17.16	peak
V	17969.400	41.55	13.47	55.02	74.00	-18.98	peak
V	17969.400	34.49	13.47	47.96	54.00	-6.04	AVG

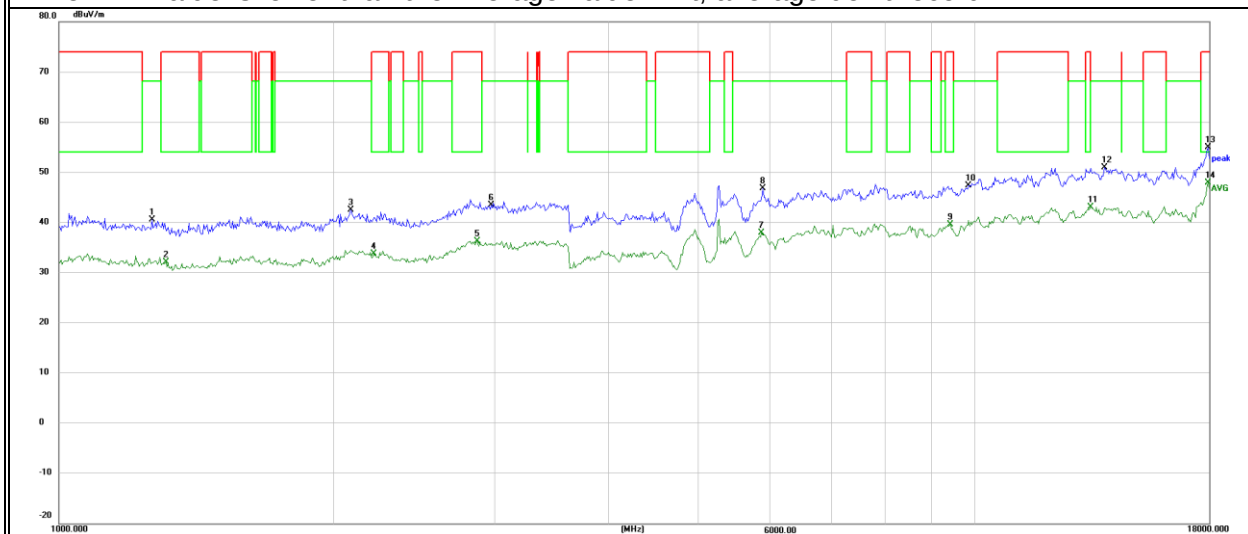
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1288.575	58.51	-17.85	40.66	68.20	-27.54	peak
H	1302.175	49.94	-17.86	32.08	54.00	-21.92	AVG
H	2073.550	54.51	-12.69	41.82	68.20	-26.38	peak
H	2090.125	47.02	-12.56	34.46	68.20	-33.74	AVG
H	3242.725	52.90	-9.00	43.90	68.20	-24.30	peak
H	3348.550	45.55	-9.34	36.21	54.00	-17.79	AVG
H	7013.750	51.90	-3.89	48.01	68.20	-20.19	peak
H	7013.750	48.85	-3.89	44.96	68.20	-23.24	AVG
H	10514.900	46.29	1.93	48.22	68.20	-19.98	peak
H	10899.950	38.02	3.80	41.82	54.00	-12.18	AVG
H	13295.675	37.64	5.24	42.88	54.00	-11.12	AVG
H	13901.725	45.25	5.30	50.55	68.20	-17.65	peak
H	17959.625	41.37	13.42	54.79	74.00	-19.21	peak
H	17933.275	33.19	13.30	46.49	54.00	-7.51	AVG

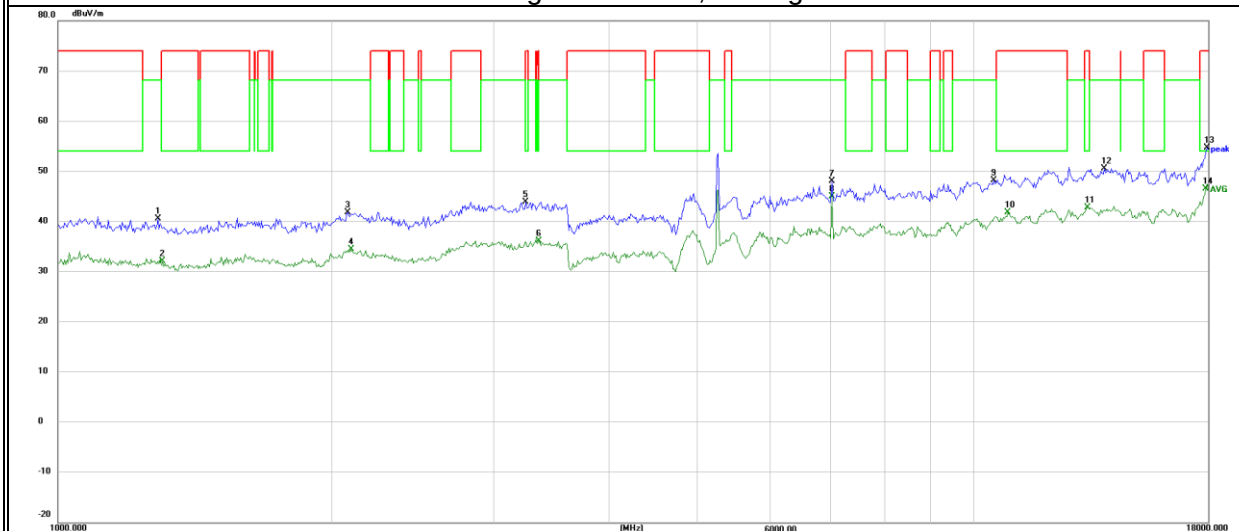
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11a 5280MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1167.875	51.17	-18.74	32.43	54.00	-21.57	AVG
V	1260.950	57.56	-17.87	39.69	68.20	-28.51	peak
V	2102.025	46.98	-12.50	34.48	68.20	-33.72	AVG
V	2119.450	54.66	-12.59	42.07	68.20	-26.13	peak
V	2837.275	46.34	-10.26	36.08	54.00	-17.92	AVG
V	2968.600	54.01	-9.85	44.16	68.20	-24.04	peak
V	4405.525	48.80	-7.78	41.02	68.20	-27.18	peak
V	4570.000	42.15	-7.82	34.33	54.00	-19.67	AVG
V	7728.600	40.75	-1.75	39.00	54.00	-15.00	AVG
V	7914.325	49.85	-1.51	48.34	68.20	-19.86	peak
V	15339.925	45.29	5.68	50.97	68.20	-17.23	peak
V	15477.200	36.69	4.97	41.66	54.00	-12.34	AVG
V	17988.525	41.71	13.56	55.27	74.00	-18.73	peak
V	17988.525	34.04	13.56	47.60	54.00	-6.40	AVG

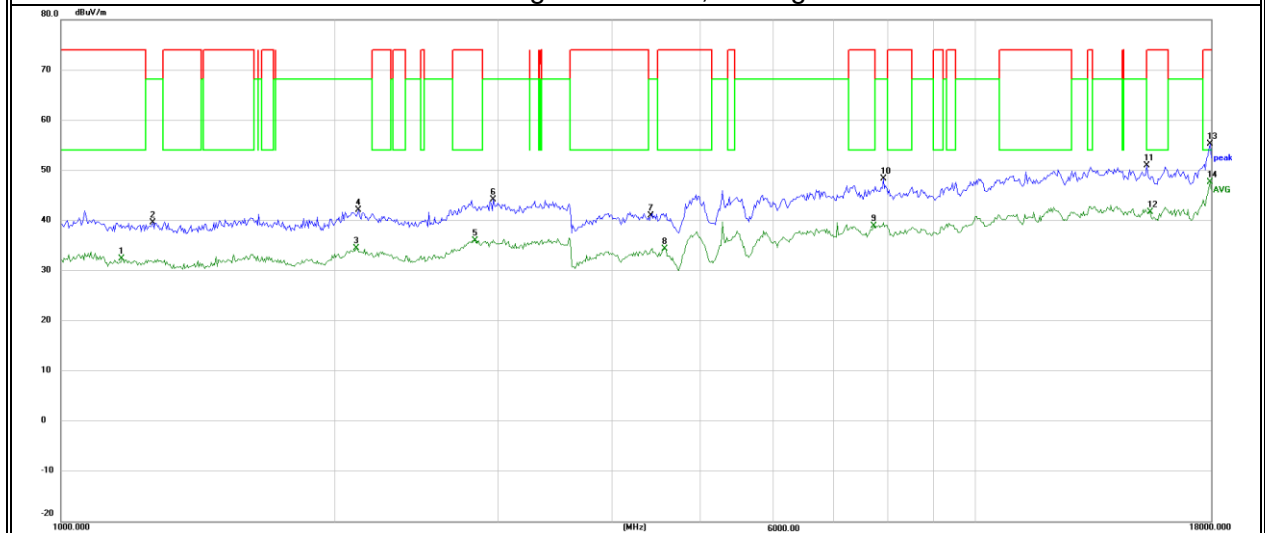
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1177.650	51.72	-18.64	33.08	54.00	-20.92	AVG
H	1272.000	57.96	-17.86	40.10	68.20	-28.10	peak
H	2082.475	47.66	-12.62	35.04	68.20	-33.16	AVG
H	2085.875	54.37	-12.59	41.78	68.20	-26.42	peak
H	2841.950	46.35	-10.25	36.10	54.00	-17.90	AVG
H	2938.850	53.19	-10.07	43.12	68.20	-25.08	peak
H	3936.750	40.46	-8.12	32.34	54.00	-21.66	AVG
H	4417.850	49.14	-7.74	41.40	68.20	-26.80	peak
H	7040.525	51.54	-3.71	47.83	68.20	-20.37	peak
H	7040.525	47.57	-3.71	43.86	68.20	-24.34	AVG
H	10576.950	46.35	2.57	48.92	68.20	-19.28	peak
H	11325.800	38.05	3.51	41.56	54.00	-12.44	AVG
H	17999.575	41.14	13.61	54.75	74.00	-19.25	peak
H	17999.575	34.02	13.61	47.63	54.00	-6.37	AVG

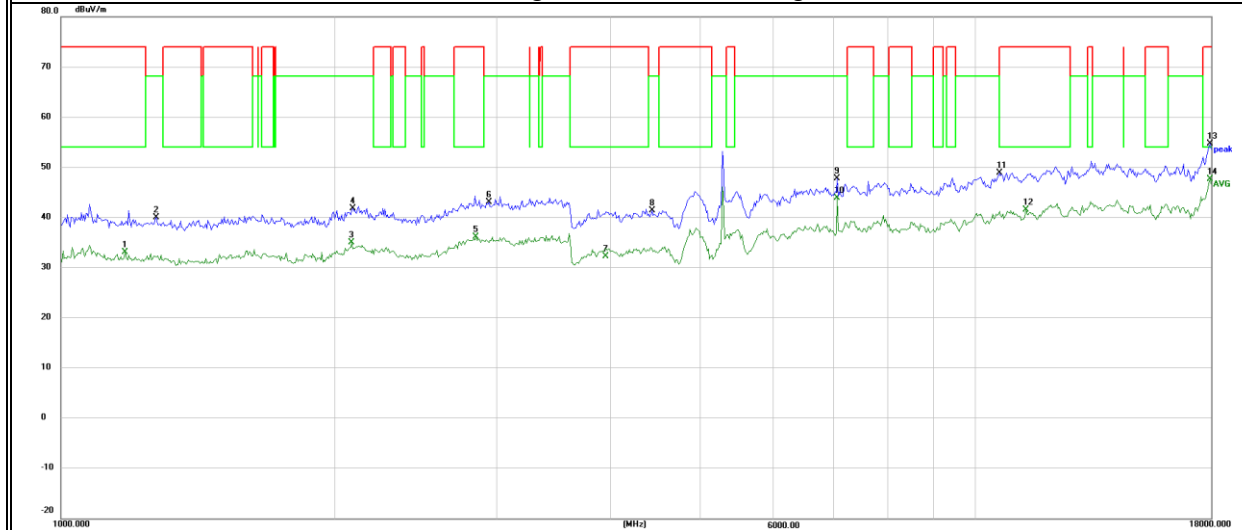
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11a 5320MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1298.350	58.46	-17.85	40.61	68.20	-27.59	peak
V	1330.650	49.64	-17.90	31.74	54.00	-22.26	AVG
V	2012.350	54.93	-13.42	41.51	68.20	-26.69	peak
V	2021.700	46.78	-13.29	33.49	68.20	-34.71	AVG
V	2858.950	46.14	-10.16	35.98	54.00	-18.02	AVG
V	2955.000	53.57	-10.02	43.55	68.20	-24.65	peak
V	6396.650	42.82	-3.99	38.83	68.20	-29.37	AVG
V	6436.175	50.20	-4.05	46.15	68.20	-22.05	peak
V	8495.300	39.24	-0.71	38.53	54.00	-15.47	AVG
V	8592.625	47.24	-0.51	46.73	68.20	-21.47	peak
V	13269.750	38.05	5.04	43.09	54.00	-10.91	AVG
V	14312.275	45.88	5.78	51.66	68.20	-16.54	peak
V	17997.450	42.07	13.60	55.67	74.00	-18.33	peak
V	17937.100	33.76	13.31	47.07	54.00	-6.93	AVG

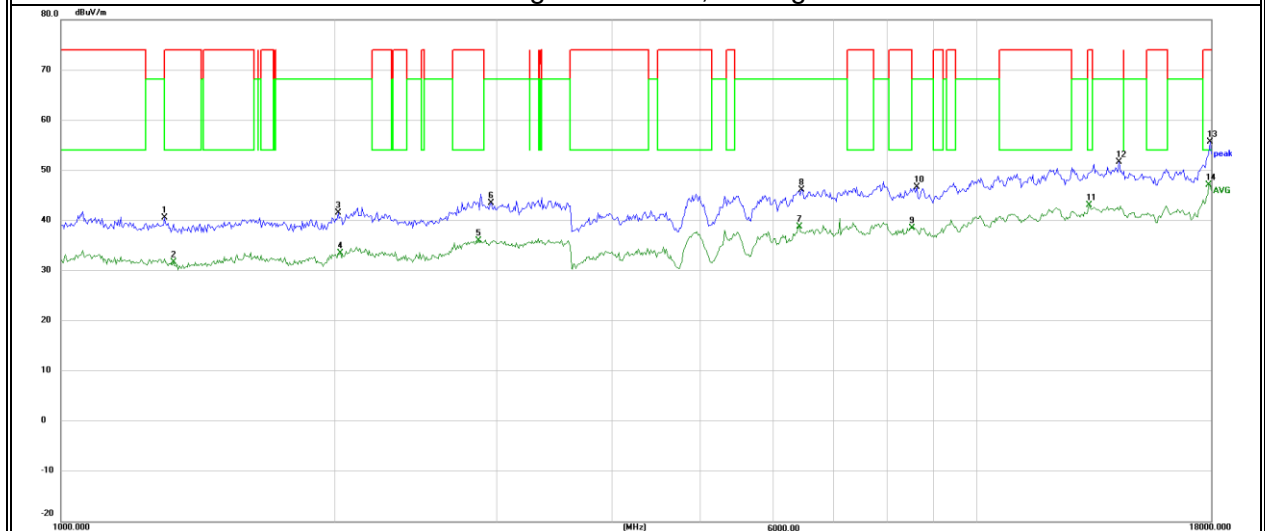
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1274.550	59.32	-17.86	41.46	68.20	-26.74	peak
H	1305.575	50.16	-17.86	32.30	54.00	-21.70	AVG
H	2043.800	54.68	-12.97	41.71	68.20	-26.49	peak
H	2217.625	46.68	-13.51	33.17	54.00	-20.83	AVG
H	3218.925	53.03	-9.13	43.90	68.20	-24.30	peak
H	3332.825	45.56	-9.37	36.19	54.00	-17.81	AVG
H	6414.075	50.30	-4.02	46.28	68.20	-21.92	peak
H	6719.650	41.81	-3.17	38.64	68.20	-29.56	AVG
H	9429.875	39.60	0.34	39.94	54.00	-14.06	AVG
H	9986.625	47.15	1.10	48.25	68.20	-19.95	peak
H	15226.025	44.09	5.94	50.03	68.20	-18.17	peak
H	15362.450	36.17	5.53	41.70	54.00	-12.30	AVG
H	17997.875	41.50	13.60	55.10	74.00	-18.90	peak
H	17939.225	33.39	13.33	46.72	54.00	-7.28	AVG

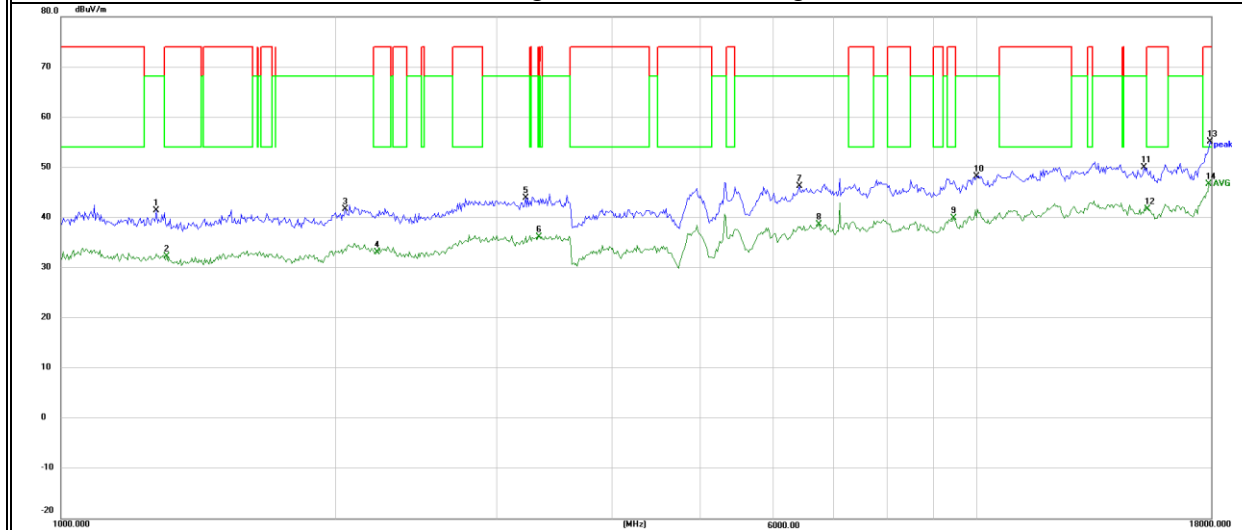
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



EUT:	Automatic Cat Litter Box	Model No.:	CH-ICB016
Temperature:	25.5 °C	Relative Humidity :	51.5%
Test Mode:	TX(5.6G) - 802.11a	Test By:	Kieron Luo

802.11a 5500MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1280.925	58.35	-17.86	40.49	68.20	-27.71	peak
V	1306.000	49.62	-17.86	31.76	54.00	-22.24	AVG
V	1868.700	56.12	-14.99	41.13	68.20	-27.07	peak
V	1881.875	48.22	-14.94	33.28	68.20	-34.92	AVG
V	3043.400	54.11	-9.60	44.51	68.20	-23.69	peak
V	3057.000	45.83	-9.60	36.23	68.20	-31.97	AVG
V	7333.775	49.04	-1.95	47.09	74.00	-26.91	peak
V	7333.775	45.10	-1.95	43.15	54.00	-10.85	AVG
V	10588.000	46.02	2.69	48.71	68.20	-19.49	peak
V	10922.050	37.86	3.76	41.62	54.00	-12.38	AVG
V	14194.975	45.04	5.66	50.70	68.20	-17.50	peak
V	14470.375	36.20	5.25	41.45	54.00	-12.55	AVG
V	17969.400	41.81	13.47	55.28	74.00	-18.72	peak
V	17936.250	32.92	13.31	46.23	54.00	-7.77	AVG

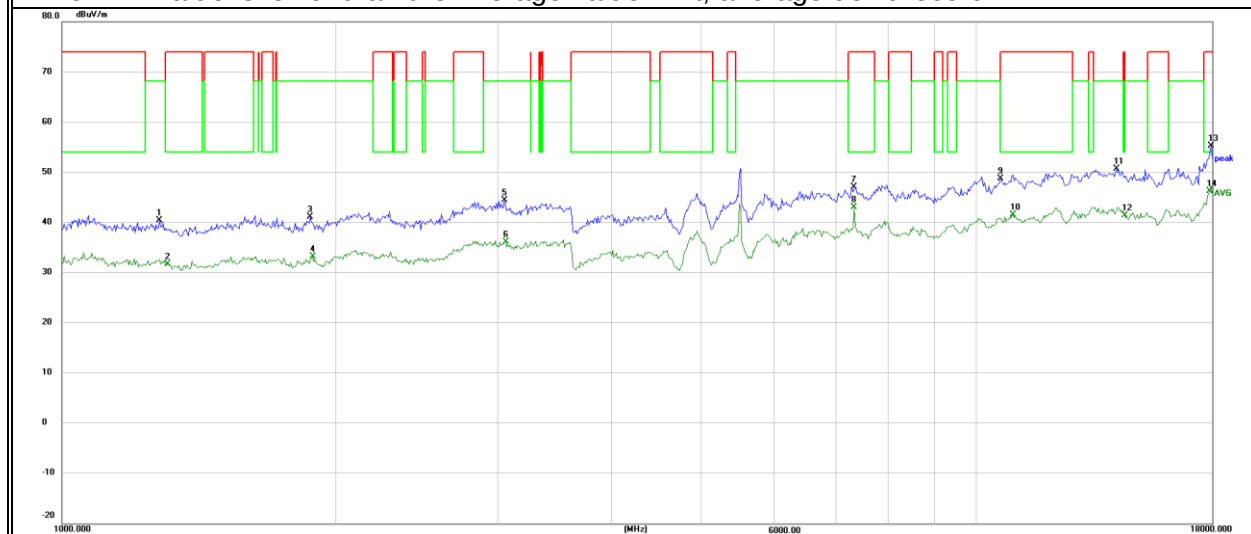
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1276.675	58.55	-17.86	40.69	68.20	-27.51	peak
H	1309.400	49.53	-17.87	31.66	54.00	-22.34	AVG
H	2082.050	55.31	-12.62	42.69	68.20	-25.51	peak
H	2099.900	47.20	-12.48	34.72	68.20	-33.48	AVG
H	3033.200	45.68	-9.57	36.11	68.20	-32.09	AVG
H	3057.000	53.29	-9.60	43.69	68.20	-24.51	peak
H	4380.875	41.64	-7.60	34.04	54.00	-19.96	AVG
H	4442.925	49.02	-7.65	41.37	68.20	-26.83	peak
H	7333.350	49.88	-1.96	47.92	74.00	-26.08	peak
H	7333.350	45.05	-1.96	43.09	54.00	-10.91	AVG
H	14169.900	45.87	5.51	51.38	68.20	-16.82	peak
H	14201.775	37.58	5.70	43.28	68.20	-24.92	AVG
H	17933.275	41.65	13.30	54.95	74.00	-19.05	peak
H	17933.275	33.78	13.30	47.08	54.00	-6.92	AVG

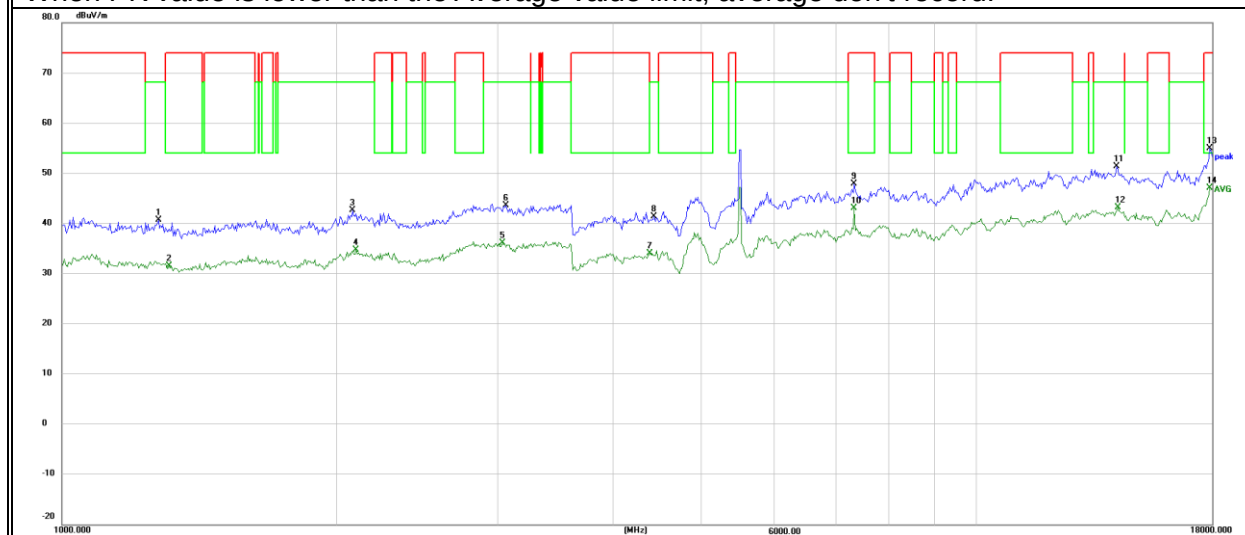
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11a 5600MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1280.075	58.27	-17.86	40.41	68.20	-27.79	peak
V	1300.475	49.90	-17.85	32.05	54.00	-21.95	AVG
V	2079.500	55.68	-12.65	43.03	68.20	-25.17	peak
V	2087.150	47.02	-12.59	34.43	68.20	-33.77	AVG
V	3141.150	44.96	-9.51	35.45	68.20	-32.75	AVG
V	3219.350	53.20	-9.12	44.08	68.20	-24.12	peak
V	6432.350	50.08	-4.04	46.04	68.20	-22.16	peak
V	6688.200	41.80	-3.02	38.78	68.20	-29.42	AVG
V	9973.025	47.14	1.06	48.20	68.20	-20.00	peak
V	10008.725	39.90	1.23	41.13	68.20	-27.07	AVG
V	14201.350	37.71	5.70	43.41	68.20	-24.79	AVG
V	14310.575	44.49	5.78	50.27	68.20	-17.93	peak
V	17960.050	41.41	13.42	54.83	74.00	-19.17	peak
V	17938.800	33.37	13.32	46.69	54.00	-7.31	AVG

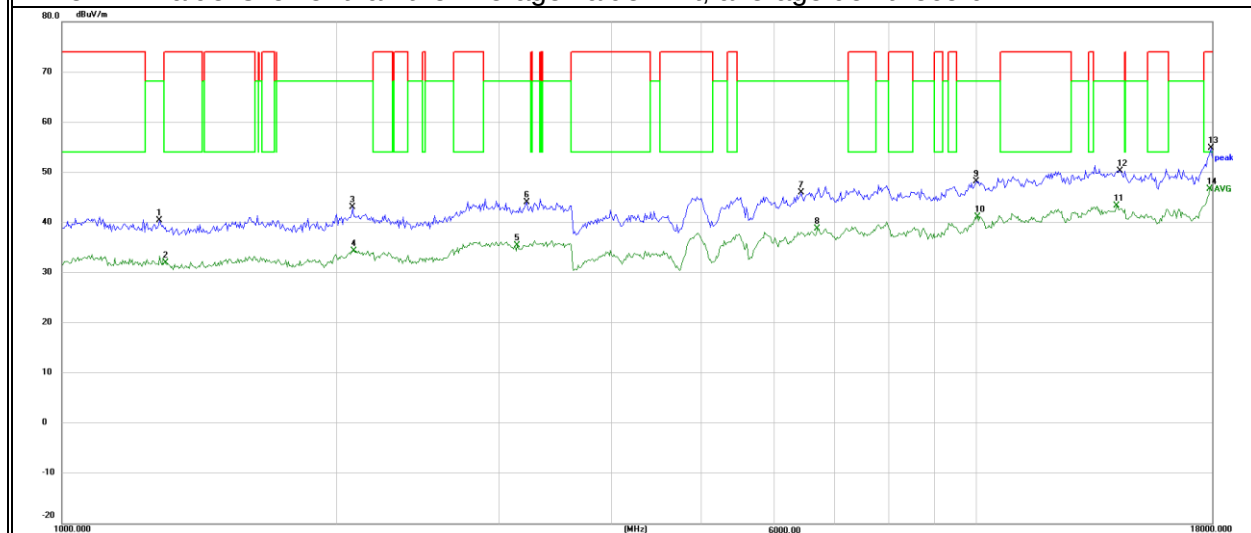
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1228.225	50.30	-18.10	32.20	54.00	-21.80	AVG
H	1275.400	58.26	-17.86	40.40	68.20	-27.80	peak
H	2001.725	47.78	-13.58	34.20	68.20	-34.00	AVG
H	2010.650	54.47	-13.45	41.02	68.20	-27.18	peak
H	2952.875	46.61	-10.04	36.57	68.20	-31.63	AVG
H	2976.675	53.50	-9.75	43.75	68.20	-24.45	peak
H	4204.925	42.22	-7.91	34.31	54.00	-19.69	AVG
H	4448.450	48.62	-7.62	41.00	68.20	-27.20	peak
H	7815.300	49.64	-1.66	47.98	68.20	-20.22	peak
H	8198.225	39.24	-1.23	38.01	54.00	-15.99	AVG
H	13332.650	37.68	5.20	42.88	54.00	-11.12	AVG
H	13451.650	45.10	5.31	50.41	68.20	-17.79	peak
H	17960.475	41.23	13.42	54.65	74.00	-19.35	peak
H	17960.475	33.84	13.42	47.26	54.00	-6.74	AVG

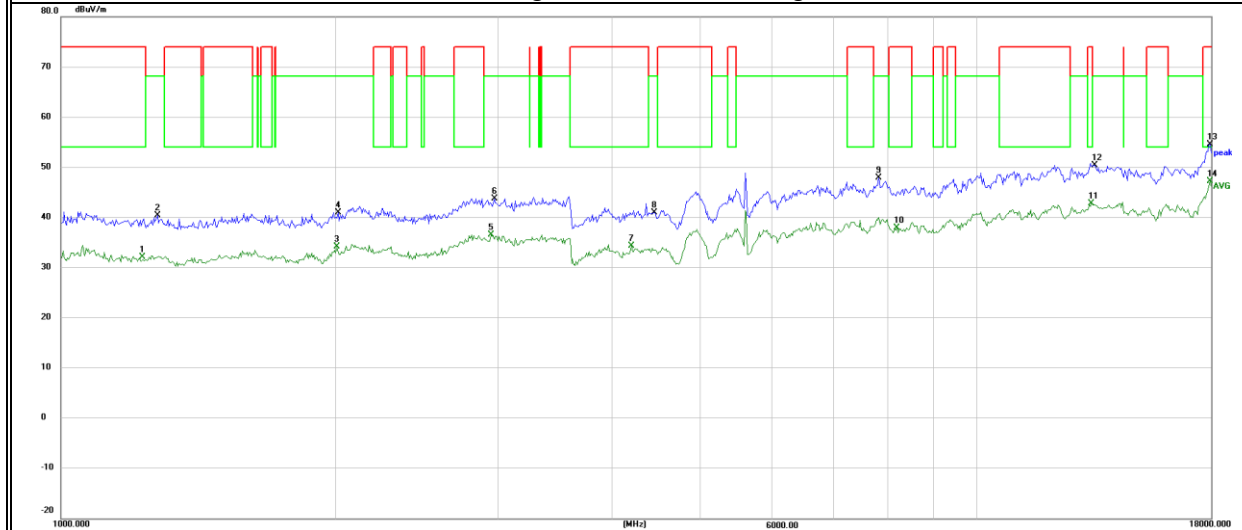
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11a 5700MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1295.375	56.84	-17.85	38.99	68.20	-29.21	peak
V	1301.750	50.07	-17.86	32.21	54.00	-21.79	AVG
V	2062.075	55.15	-12.79	42.36	68.20	-25.84	peak
V	2078.225	47.58	-12.66	34.92	68.20	-33.28	AVG
V	3027.250	54.18	-9.54	44.64	68.20	-23.56	peak
V	3038.725	45.91	-9.58	36.33	68.20	-31.87	AVG
V	4250.400	41.73	-7.75	33.98	54.00	-20.02	AVG
V	4406.375	48.52	-7.78	40.74	68.20	-27.46	peak
V	7600.250	41.79	-2.56	39.23	54.00	-14.77	AVG
V	7912.625	48.63	-1.52	47.11	68.20	-21.09	peak
V	12238.275	37.78	4.76	42.54	54.00	-11.46	AVG
V	12279.500	45.49	5.05	50.54	74.00	-23.46	peak
V	17954.950	41.70	13.40	55.10	74.00	-18.90	peak
V	17942.200	33.23	13.34	46.57	54.00	-7.43	AVG

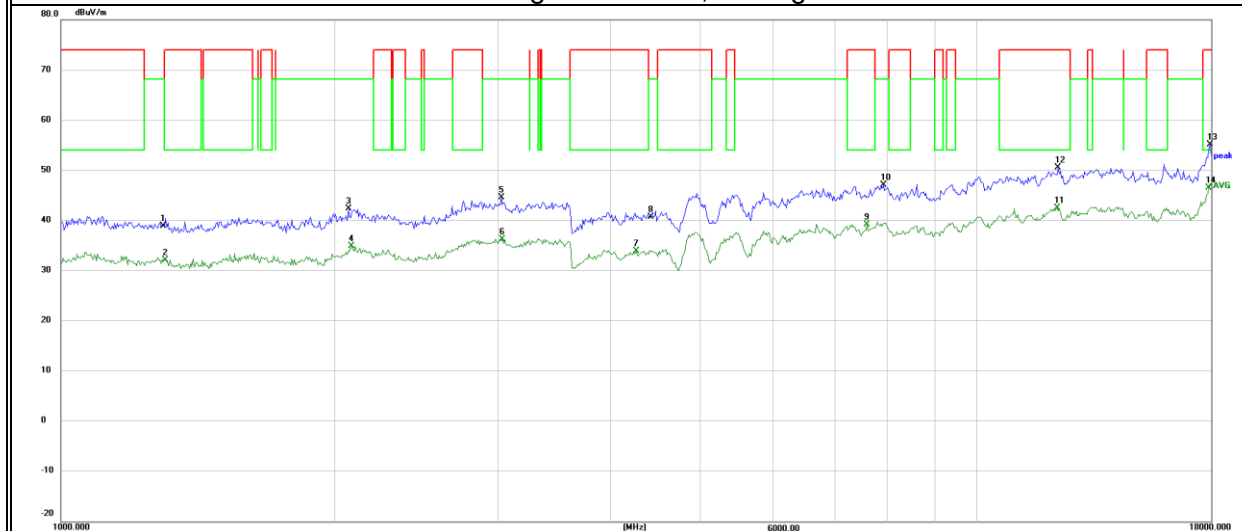
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1204.000	58.46	-18.36	40.10	74.00	-33.90	peak
H	1209.950	50.77	-18.30	32.47	54.00	-21.53	AVG
H	1875.925	48.40	-14.96	33.44	68.20	-34.76	AVG
H	1888.250	56.41	-14.89	41.52	68.20	-26.68	peak
H	2898.050	46.44	-9.99	36.45	54.00	-17.55	AVG
H	2915.900	53.95	-10.02	43.93	68.20	-24.27	peak
H	4461.200	50.70	-7.65	43.05	68.20	-25.15	peak
H	4533.025	42.57	-7.68	34.89	54.00	-19.11	AVG
H	6800.400	51.10	-3.21	47.89	68.20	-20.31	peak
H	7224.550	41.10	-2.40	38.70	68.20	-29.50	AVG
H	14342.875	44.53	5.69	50.22	68.20	-17.98	peak
H	14342.875	37.63	5.69	43.32	68.20	-24.88	AVG
H	17957.925	41.95	13.41	55.36	74.00	-18.64	peak
H	17957.925	33.81	13.41	47.22	54.00	-6.78	AVG

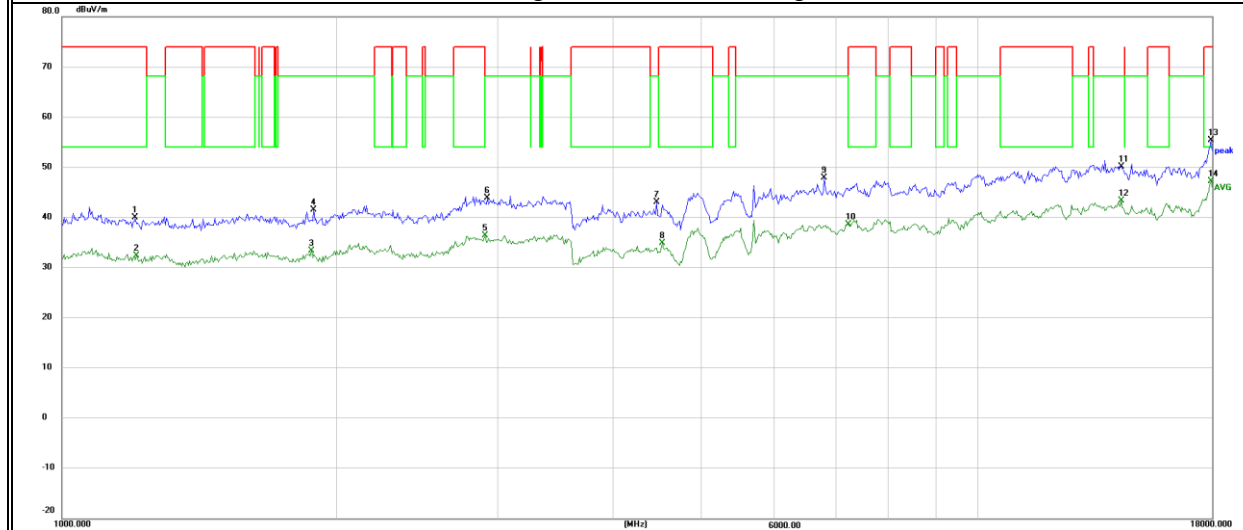
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



EUT :	Automatic Cat Litter Box	Model Name. :	CH-ICB016
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX (5.8G) -- 802.11a		

802.11a 5745MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1295.800	59.46	-17.85	41.61	68.20	-26.59	peak
V	1302.175	49.67	-17.86	31.81	54.00	-22.19	AVG
V	2130.925	55.42	-12.66	42.76	68.20	-25.44	peak
V	2201.050	46.97	-13.74	33.23	54.00	-20.77	AVG
V	3027.250	46.15	-9.54	36.61	68.20	-31.59	AVG
V	3037.025	53.42	-9.57	43.85	68.20	-24.35	peak
V	4437.400	49.61	-7.66	41.95	68.20	-26.25	peak
V	4525.375	41.45	-7.69	33.76	54.00	-20.24	AVG
V	7204.150	48.15	-2.03	46.12	68.20	-22.08	peak
V	7660.175	42.86	-2.13	40.73	54.00	-13.27	AVG
V	12174.525	46.19	4.56	50.75	74.00	-23.25	peak
V	12208.100	37.71	4.55	42.26	54.00	-11.74	AVG
V	17997.450	41.25	13.60	54.85	74.00	-19.15	peak
V	17997.450	33.75	13.60	47.35	54.00	-6.65	AVG

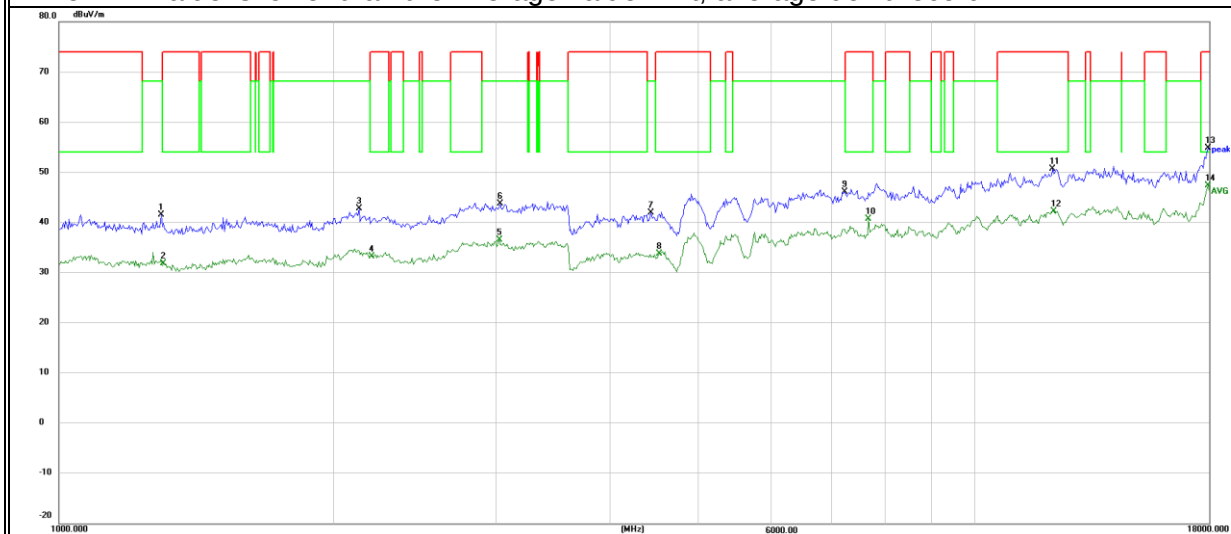
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1056.100	52.44	-18.41	34.03	54.00	-19.97	AVG
H	1068.425	60.43	-18.28	42.15	74.00	-31.85	peak
H	2093.100	55.95	-12.53	43.42	68.20	-24.78	peak
H	2100.750	47.30	-12.49	34.81	68.20	-33.39	AVG
H	2958.400	52.97	-9.98	42.99	68.20	-25.21	peak
H	3039.150	45.88	-9.58	36.30	68.20	-31.90	AVG
H	4335.400	41.39	-7.46	33.93	54.00	-20.07	AVG
H	4458.650	49.10	-7.64	41.46	68.20	-26.74	peak
H	7660.175	42.67	-2.13	40.54	54.00	-13.46	AVG
H	7785.550	48.54	-1.55	46.99	68.20	-21.21	peak
H	11999.425	45.02	5.28	50.30	74.00	-23.70	peak
H	12312.650	37.19	5.09	42.28	54.00	-11.72	AVG
H	17973.225	40.58	13.48	54.06	74.00	-19.94	peak
H	17973.225	33.45	13.48	46.93	54.00	-7.07	AVG

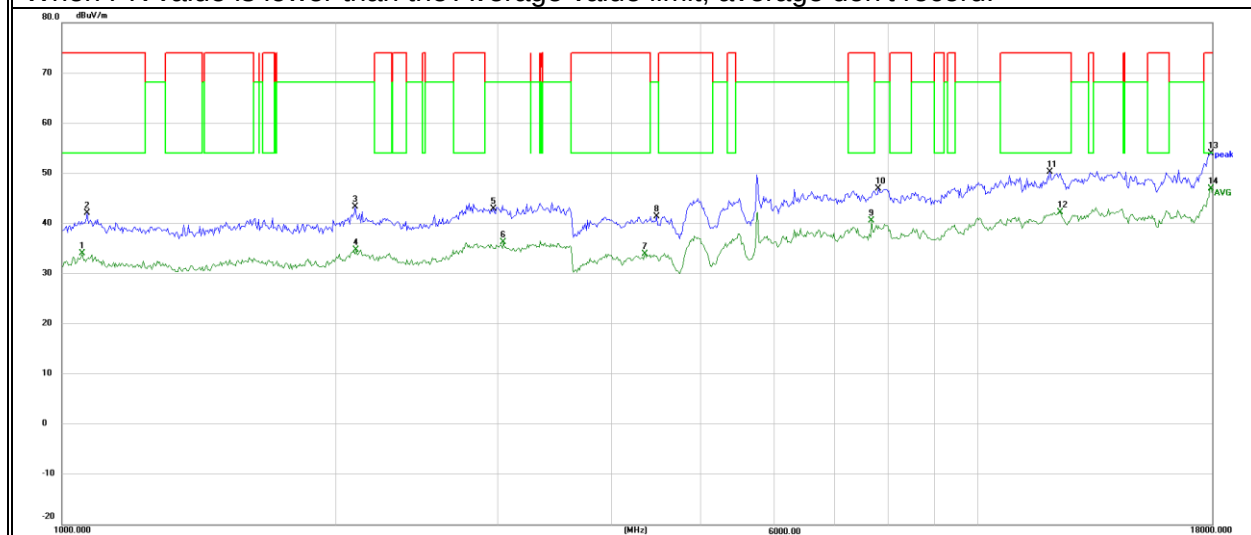
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11a 5785MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1068.000	52.60	-18.29	34.31	54.00	-19.69	AVG
V	1083.725	59.87	-18.12	41.75	74.00	-32.25	peak
V	1576.300	49.50	-16.65	32.85	54.00	-21.15	AVG
V	1590.325	58.52	-16.50	42.02	74.00	-31.98	peak
V	2252.050	47.06	-13.05	34.01	54.00	-19.99	AVG
V	2309.425	53.62	-13.32	40.30	68.20	-27.90	peak
V	3336.650	44.79	-9.37	35.42	54.00	-18.58	AVG
V	3457.775	53.07	-9.53	43.54	68.20	-24.66	peak
V	7713.725	42.11	-1.73	40.38	54.00	-13.62	AVG
V	7911.775	48.52	-1.53	46.99	68.20	-21.21	peak
V	13371.750	37.49	5.12	42.61	54.00	-11.39	AVG
V	13751.275	45.02	5.10	50.12	68.20	-18.08	peak
V	17956.225	41.31	13.41	54.72	74.00	-19.28	peak
V	17956.225	33.61	13.41	47.02	54.00	-6.98	AVG

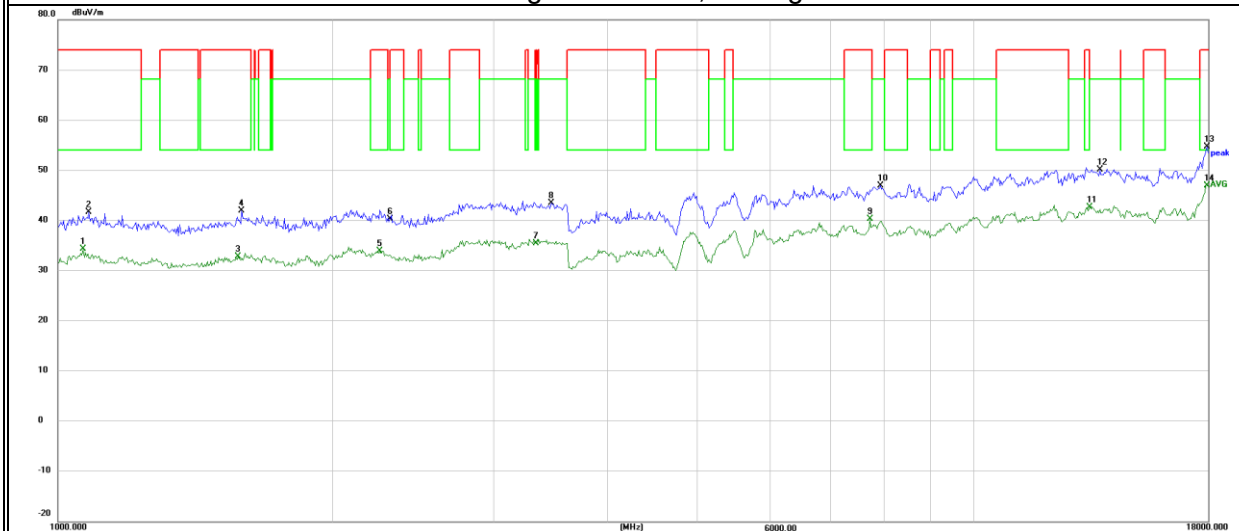
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1071.400	52.52	-18.25	34.27	54.00	-19.73	AVG
H	1095.200	59.47	-18.00	41.47	74.00	-32.53	peak
H	1456.025	55.27	-17.51	37.76	74.00	-36.24	peak
H	1542.300	57.66	-16.94	40.72	74.00	-33.28	peak
H	1545.700	49.75	-16.93	32.82	54.00	-21.18	AVG
H	2854.700	46.26	-10.19	36.07	54.00	-17.93	AVG
H	2920.150	52.85	-10.02	42.83	68.20	-25.37	peak
H	4352.400	41.01	-7.31	33.70	54.00	-20.30	AVG
H	4466.300	49.11	-7.65	41.46	68.20	-26.74	peak
H	7713.725	41.17	-1.73	39.44	54.00	-14.56	AVG
H	7750.275	47.85	-1.78	46.07	68.20	-22.13	peak
H	13336.900	37.10	5.20	42.30	54.00	-11.70	AVG
H	13735.975	45.71	5.14	50.85	68.20	-17.35	peak
H	17965.575	41.39	13.45	54.84	74.00	-19.16	peak
H	17965.575	33.70	13.45	47.15	54.00	-6.85	AVG

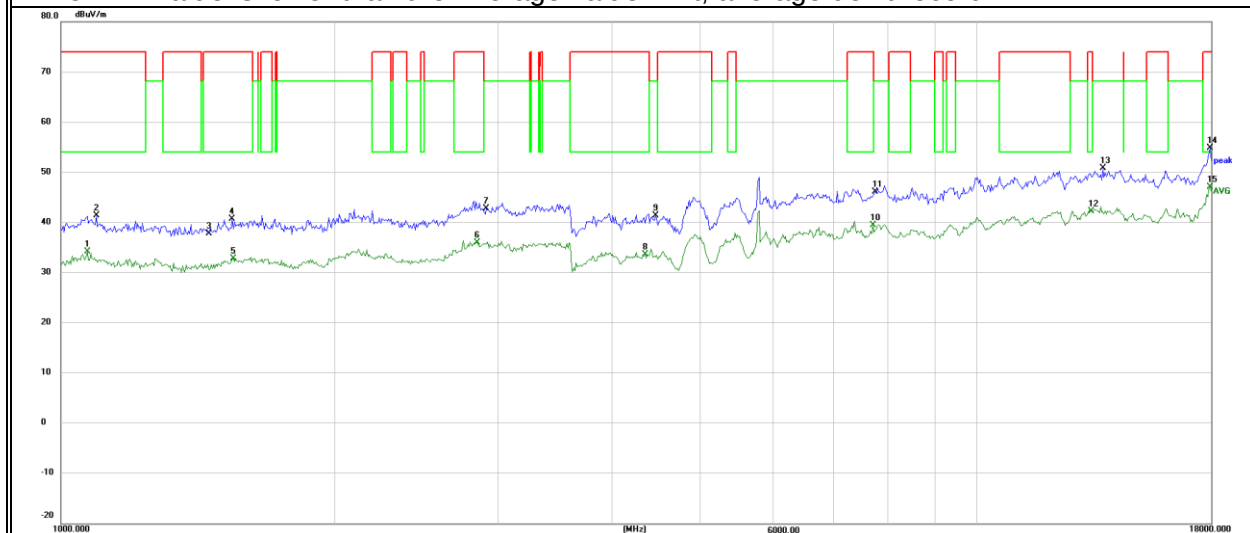
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11a 5825MHz

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1229.075	49.87	-18.10	31.77	54.00	-22.23	AVG
V	1259.675	58.00	-17.87	40.13	68.20	-28.07	peak
V	2090.975	54.62	-12.55	42.07	68.20	-26.13	peak
V	2151.750	47.46	-12.80	34.66	68.20	-33.54	AVG
V	2875.525	46.22	-10.10	36.12	54.00	-17.88	AVG
V	2946.075	53.75	-10.07	43.68	68.20	-24.52	peak
V	6697.125	41.28	-2.88	38.40	68.20	-29.80	AVG
V	6701.375	49.20	-2.85	46.35	68.20	-21.85	peak
V	10015.525	40.06	1.30	41.36	68.20	-26.84	AVG
V	10086.500	46.57	2.03	48.60	68.20	-19.60	peak
V	13302.475	36.96	5.27	42.23	54.00	-11.77	AVG
V	13582.975	45.77	5.03	50.80	68.20	-17.40	peak
V	17954.950	41.03	13.40	54.43	74.00	-19.57	peak
V	17941.350	32.96	13.33	46.29	54.00	-7.71	AVG

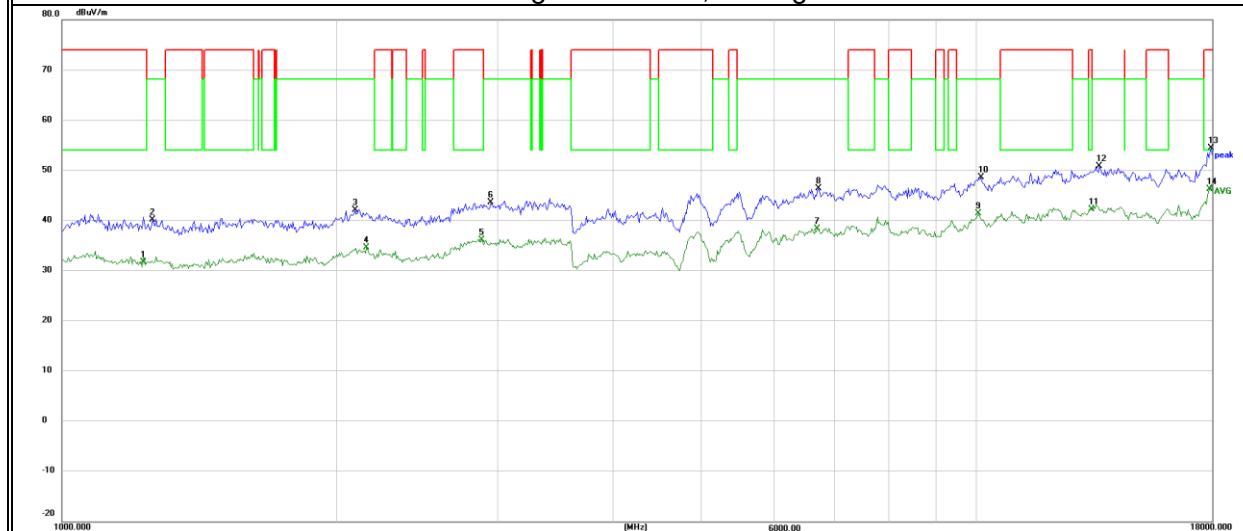
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1222.275	49.91	-18.16	31.75	54.00	-22.25	AVG
H	1227.375	58.06	-18.11	39.95	74.00	-34.05	peak
H	2079.925	54.62	-12.65	41.97	68.20	-26.23	peak
H	2088.850	47.60	-12.57	35.03	68.20	-33.17	AVG
H	2948.625	53.79	-10.08	43.71	68.20	-24.49	peak
H	3003.450	45.52	-9.48	36.04	68.20	-32.16	AVG
H	4254.650	41.87	-7.76	34.11	54.00	-19.89	AVG
H	4412.750	48.34	-7.75	40.59	68.20	-27.61	peak
H	6833.550	49.68	-3.47	46.21	68.20	-21.99	peak
H	6843.325	42.33	-3.55	38.78	68.20	-29.42	AVG
H	11979.025	37.41	5.26	42.67	54.00	-11.33	AVG
H	12142.650	45.63	4.66	50.29	74.00	-23.71	peak
H	17982.150	40.82	13.53	54.35	74.00	-19.65	peak
H	17982.150	33.84	13.53	47.37	54.00	-6.63	AVG

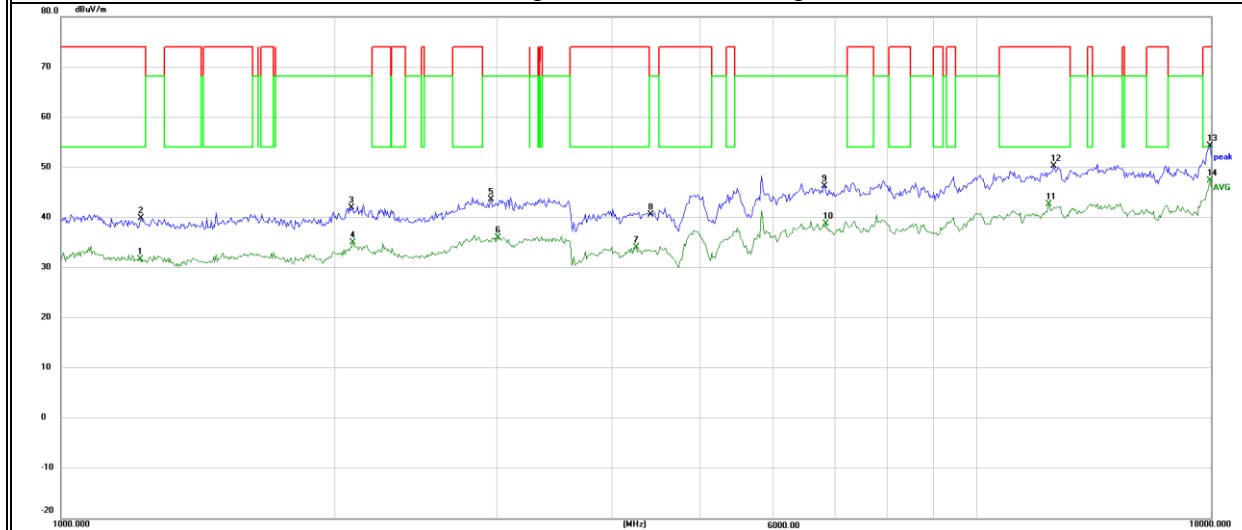
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2.2.9 TEST RESULTS (18GHz-40GHz)

EUT :	Automatic Cat Litter Box	Model Name. :	CH-ICB016
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX (5.8G) -- 802.11a		

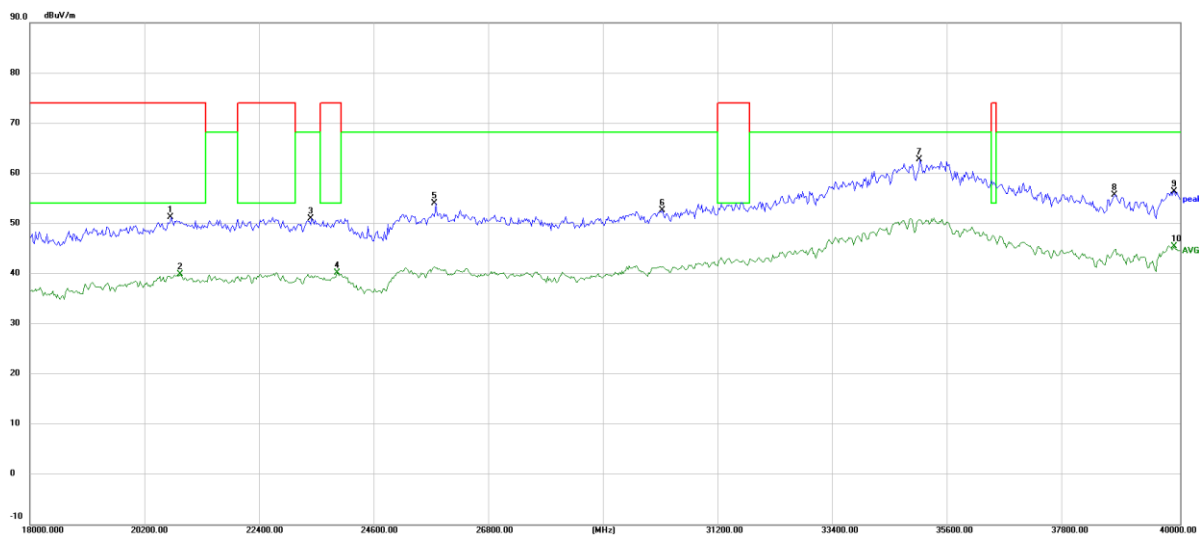
High Channel (5825 MHz)- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	20843.133	59.99	-8.70	51.29	74.00	-22.71	peak
2	23516.133	57.55	-6.55	51.00	68.20	-17.20	peak
3	23965.667	46.30	-5.90	40.40	54.00	-13.60	AVG
4	27761.400	60.79	-8.55	52.24	68.20	-15.96	peak
5	31392.867	49.04	-5.73	43.31	54.00	-10.69	AVG
6	31540.267	60.25	-5.65	54.60	74.00	-19.40	peak
7	35194.467	59.41	3.08	62.49	68.20	-5.71	peak
8	38770.933	54.22	1.79	56.01	68.20	-12.19	peak
9	39863.600	53.08	3.21	56.29	68.20	-11.91	peak
10	39863.600	41.91	3.21	45.12	68.20	-23.08	AVG



High Channel (5825 MHz)- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	20722.133	59.92	-8.67	51.25	74.00	-22.75	peak
2	20901.067	48.68	-8.72	39.96	54.00	-14.04	AVG
3	23399.533	57.99	-6.91	51.08	68.20	-17.12	peak
4	23898.200	46.28	-6.10	40.18	54.00	-13.82	AVG
5	25786.533	59.64	-5.62	54.02	68.20	-14.18	peak
6	30127.867	60.07	-7.41	52.66	68.20	-15.54	peak
7	35033.133	59.05	3.67	62.72	68.20	-5.48	peak
8	38775.333	53.90	1.79	55.69	68.20	-12.51	peak
9	39914.200	53.18	3.28	56.46	68.20	-11.74	peak
10	39914.200	42.13	3.28	45.41	68.20	-22.79	AVG



Note: 5.8G 802.11a mode is the worst mode

2.2.10 Spurious Emission in Restricted Band 4.5GHz~5.150 GHz& 5.350GHz~5460GHz

All the modulation modes have been tested, The report just record the worst data mode.

EUT :	Automatic Cat Litter Box	Model Name. :	CH-ICB016
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX (5.2G)- 802.11n20		

All the modulation modes have been tested, The report just record the worst data mode.

Vertical Low Channel (5180 MHz)-Above 1G



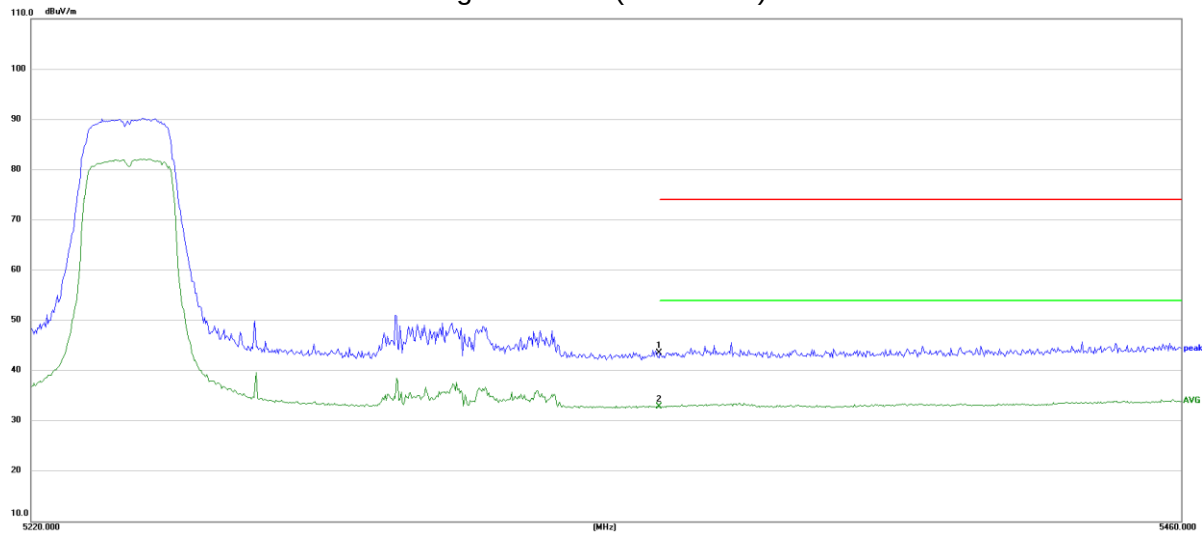
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5150.000	6.42	38.51	44.93	74.00	-29.07	peak
2	5150.000	-3.33	38.51	35.18	54.00	-18.82	AVG

Horizontal Low Channel (5180 MHz)-Above 1G



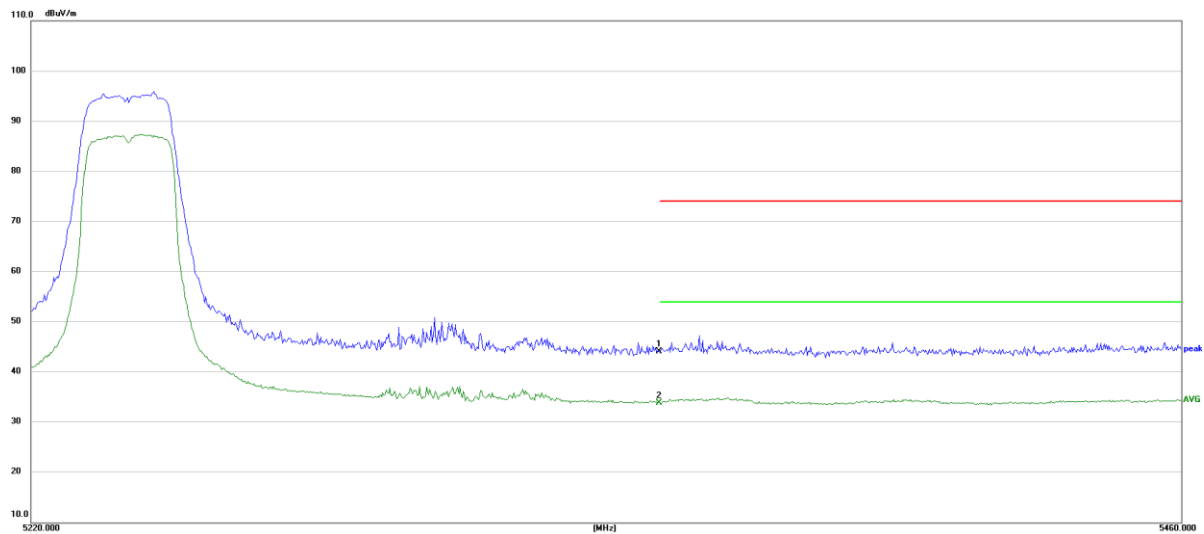
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5150.000	8.86	38.51	47.37	74.00	-26.63	peak
2	5150.000	-1.65	38.51	36.86	54.00	-17.14	AVG

Vertical High Channel (5240 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5350.000	5.94	37.64	43.58	74.00	-30.42	peak
2	5350.000	-4.67	37.64	32.97	54.00	-21.03	AVG

Horizontal High Channel (5240 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5350.000	6.44	37.64	44.08	74.00	-29.92	peak
2	5350.000	-3.73	37.64	33.91	54.00	-20.09	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 n20. Only the worst-case mode reported.

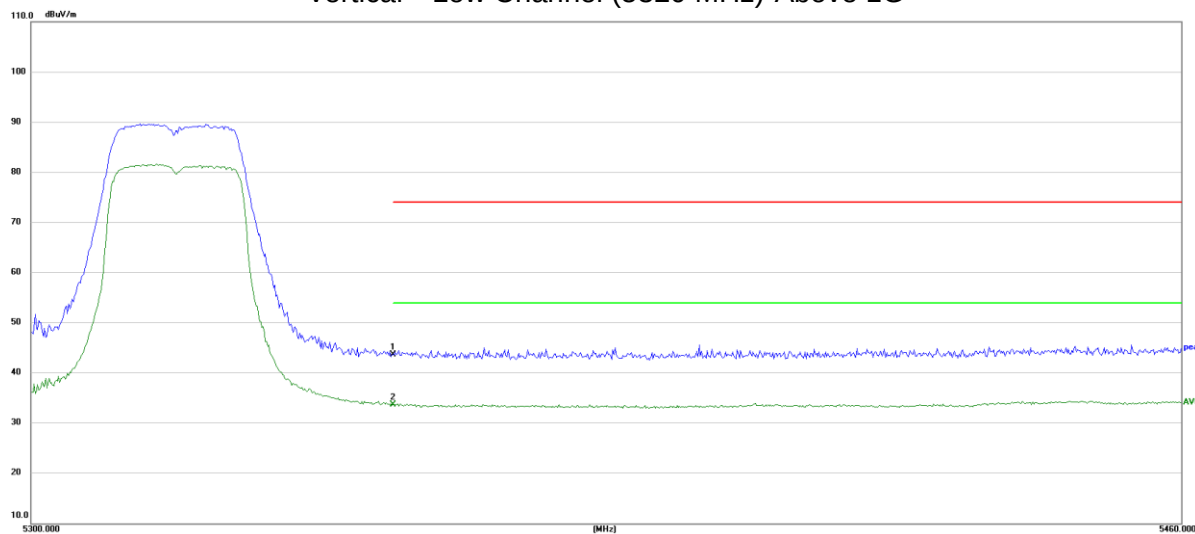
Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.

EUT :	Automatic Cat Litter Box	Model Name. :	CH-ICB016
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX (5.3G)- 802.11n20		

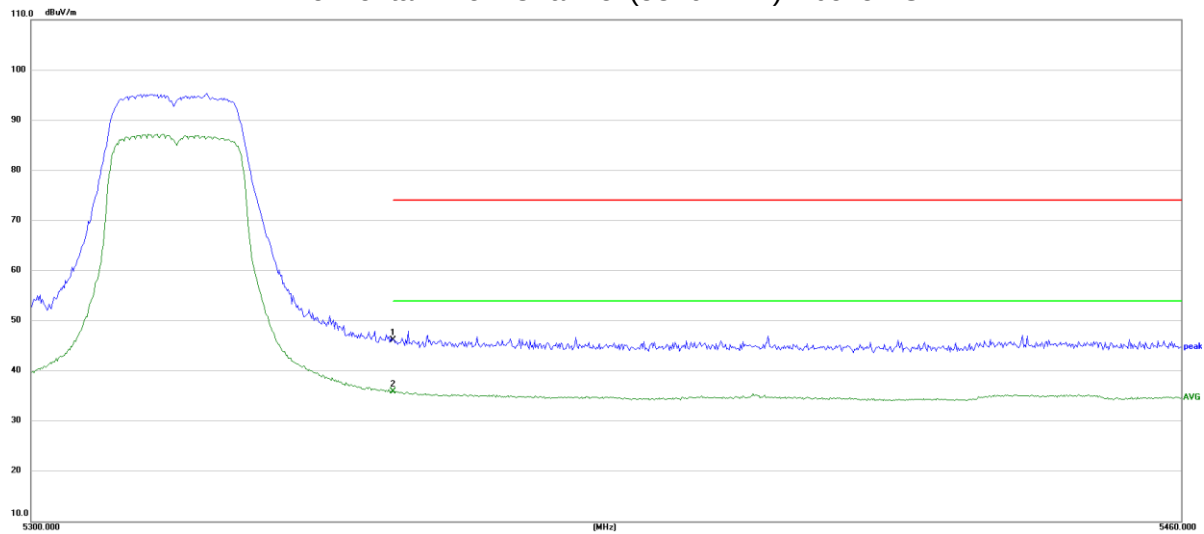
All the modulation modes have been tested, The report just record the worst data mode.

Vertical Low Channel (5320 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5350.000	6.02	37.64	43.66	74.00	-30.34	peak
2	5350.000	-3.87	37.64	33.77	54.00	-20.23	AVG

Horizontal Low Channel (5320 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5350.000	8.62	37.64	46.26	74.00	-27.74	peak
2	5350.000	-1.71	37.64	35.93	54.00	-18.07	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 n20. Only the worst-case mode reported.

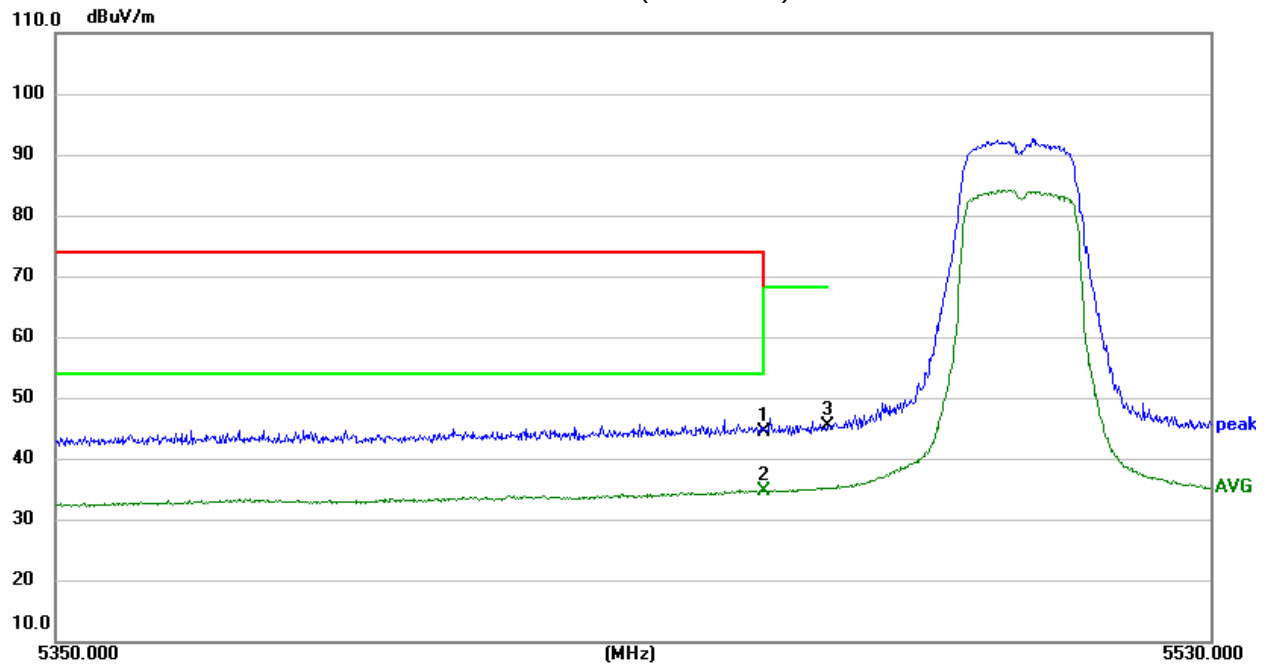
Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.

EUT :	Automatic Cat Litter Box	Model Name. :	CH-ICB016
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX (5.6G)- 802.11n20		

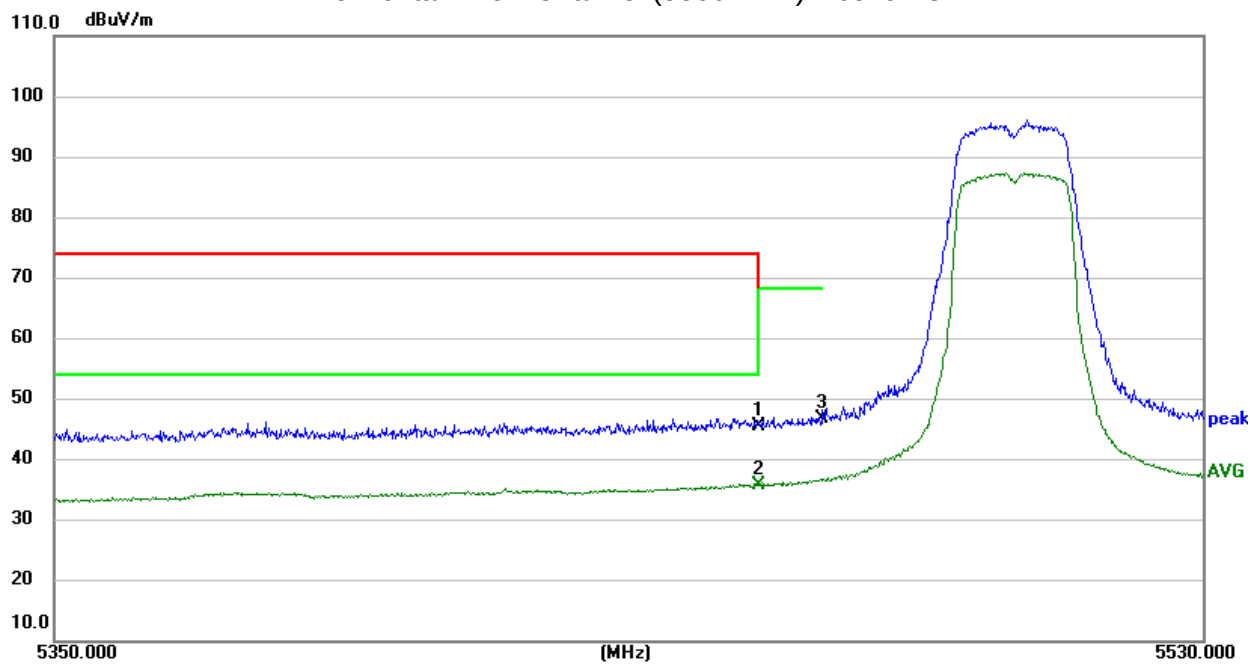
All the modulation modes have been tested, The report just record the worst data mode.

Vertical Low Channel (5500 MHz)-Above 1G



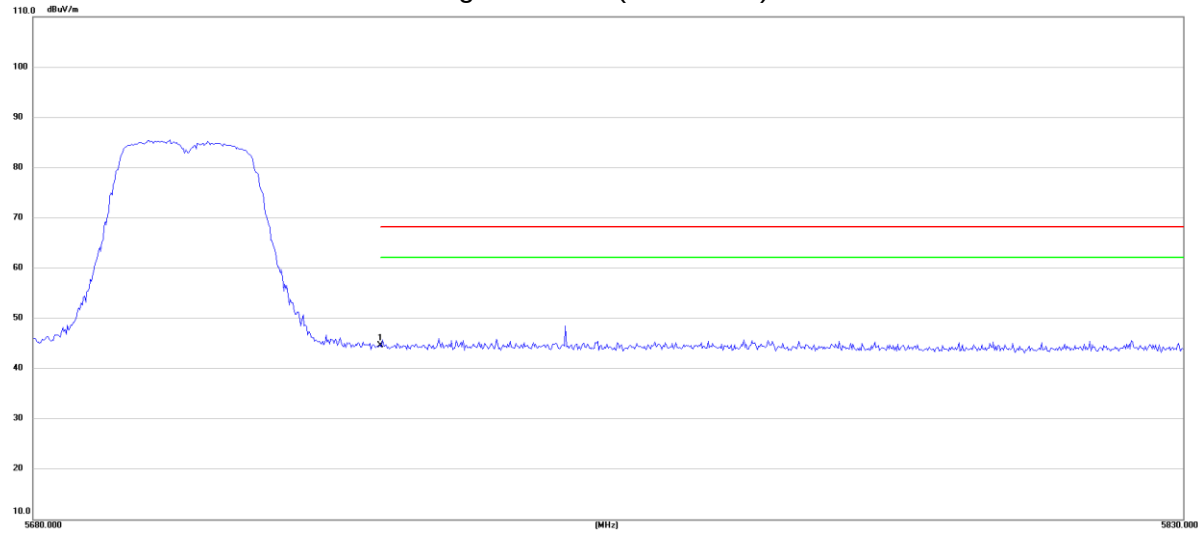
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5460.000	5.93	38.51	44.44	74.00	-29.56	peak
2	5460.000	-3.69	38.51	34.82	54.00	-19.18	AVG
3	5470.000	6.86	38.68	45.54	68.20	-22.66	peak

Horizontal Low Channel (5500 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5460.000	6.94	38.51	45.45	74.00	-28.55	peak
2	5460.000	-2.59	38.51	35.92	54.00	-18.08	AVG
3	5470.000	8.05	38.68	46.73	68.20	-21.47	peak

Vertical High Channel (5700 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5725.000	5.57	39.09	44.66	68.20	-23.54	peak

Horizontal High Channel (5700 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5725.000	6.34	39.09	45.43	68.20	-22.77	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 n20. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

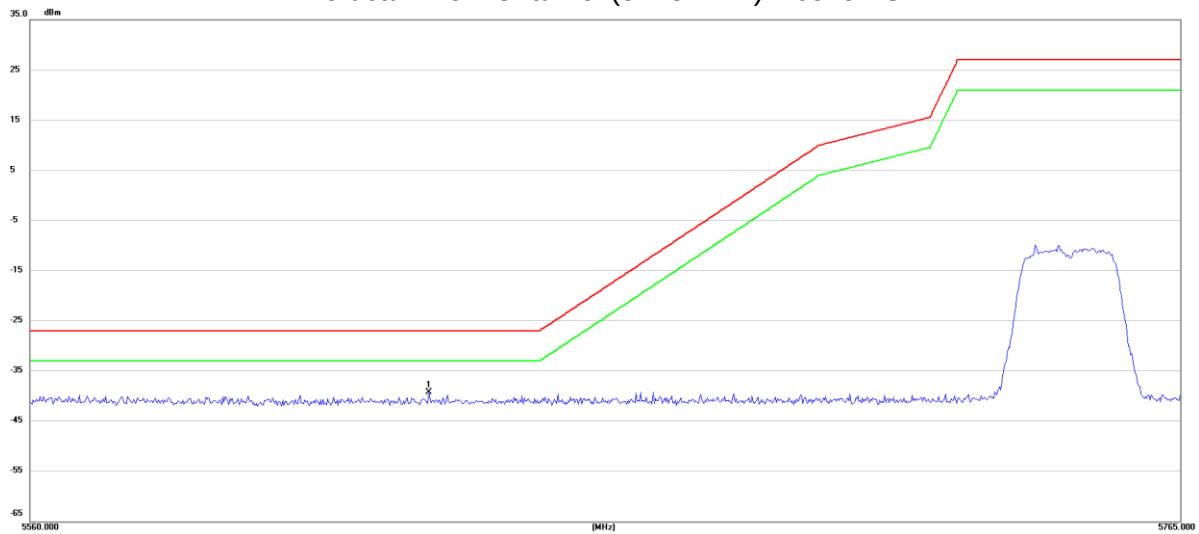
When PK value is lower than the Average value limit, average don't record.

Unwanted emission for operating in the band 5725-5850 MHz

EUT :	Automatic Cat Litter Box	Model Name. :	CH-ICB016
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX (5.8G)-802.11n20		

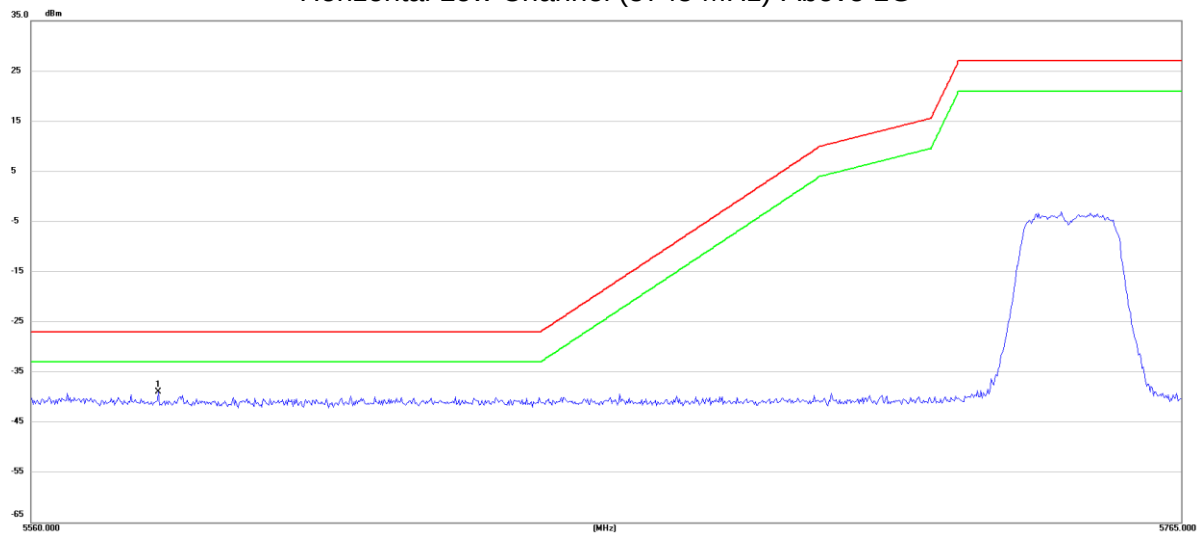
All the modulation modes have been tested, The report just record the worst data mode.

Vertical Low Channel (5745 MHz)-Above 1G



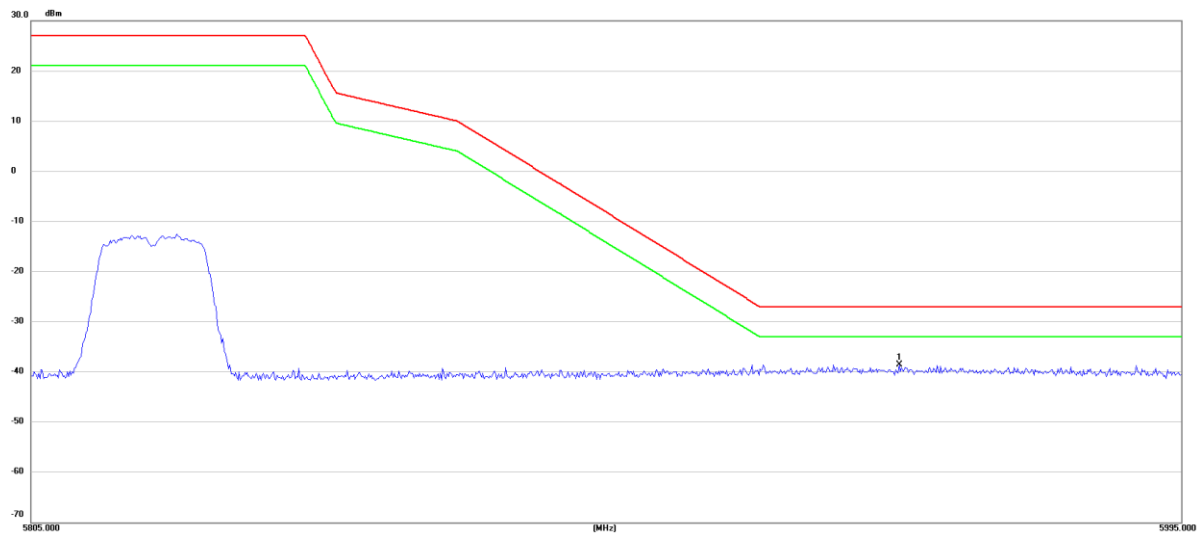
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.
1	5630.315	-89.69	50.50	-39.19	-27.00	-12.19	peak

Horizontal Low Channel (5745 MHz)-Above 1G



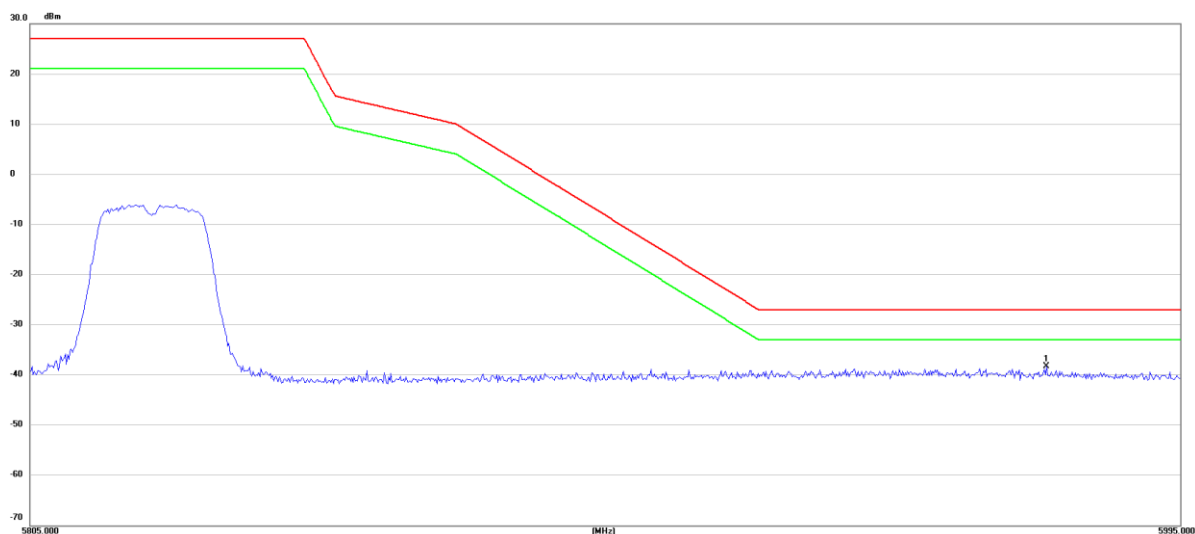
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.
1	5582.550	-89.29	50.44	-38.85	-27.00	-11.85	peak

Vertical High Channel (5825 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.
1	5948.070	-90.37	51.90	-38.47	-27.00	-11.47	peak

Horizontal High Channel (5825 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.
1	5972.770	-89.64	51.47	-38.17	-27.00	-11.17	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 n20. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.

3. POWER SPECTRAL DENSITY TEST

3.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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3.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Measure the duty cycle D of the transmitter output signal as described in 12.2.
- b) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.
- c) Set RBW = 1 MHz.
- d) Set VBW ≥ 3 MHz.
- e) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- f) Sweep time = auto.
- g) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- h) Do not use sweep triggering. Allow the sweep to “free run.”
- i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- j) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument’s band power measurement function with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.
- k) Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1 / 0.25)] = 6$ dB if the duty cycle is 25%.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHz is available on nearly all spectrum analyzers.

3.3 DEVIATION FROM STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

3.6 TEST RESULTS

EUT :	Automatic Cat Litter Box	Model Name :	CH-ICB016
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 12V
Test Mode :	TX Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz), Band 2C (5470-5725MHz), Band 3 (5745-5825MHz)		

Test data reference attachment.

4. 26DB & 99% EMISSION BANDWIDTH

4.1 APPLIED PROCEDURES / LIMIT

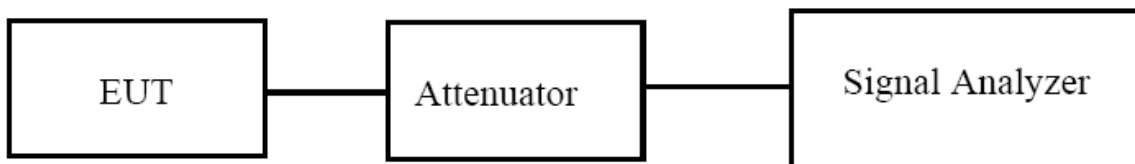
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

4.2 TEST PROCEDURE

- a) Set RBW = Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.4 TEST RESULTS

EUT :	Automatic Cat Litter Box	Model Name :	CH-ICB016
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 12V
Test Mode :	TX Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz), Band 2C (5470-5725MHz), Band 3 (5745-5825MHz)		

Test data reference attachment.

5. MINIMUM 6 DB BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.2 TEST PROCEDURE

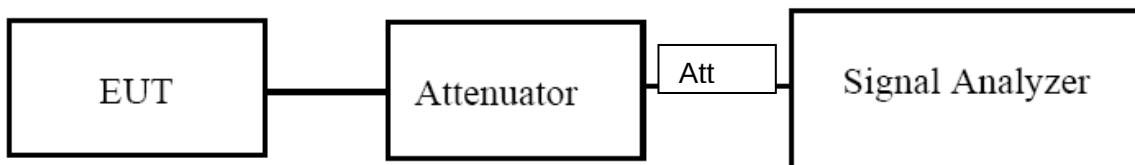
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

EUT :	Automatic Cat Litter Box	Model Name :	CH-ICB016
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 12V
Test Mode :	TX (5G) Mode Frequency Band 3 (5725-5850MHz)		

Test data reference attachment.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5250~5350	250 mW or 11 dBm + 10 log B Note: The limit is the smaller of the two, "B" represents -26dB bandwidth.
5470~5725	250 mW or 11 dBm + 10 log B Note: The limit is the smaller of the two, "B" represents -26dB bandwidth.
5725~5850	1W

6.2 TEST PROCEDURE

· Method PM is Measurement using an RF average power meter. The procedure for this method is as

follows:

a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:

1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.

2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.

3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle D of the transmitter output signal as described in 12.2.

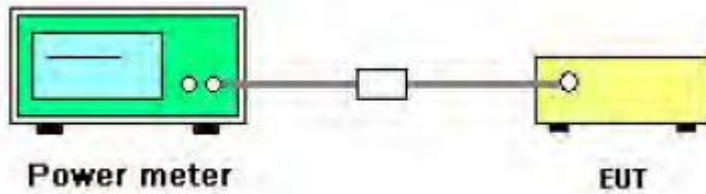
c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.

d) Correct the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle {e.g., $[10 \log (1 / 0.25)]$, if the duty cycle is 25%}.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.2 TEST RESULTS

EUT :	Automatic Cat Litter Box	Model Name :	CH-ICB016
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 12V
Test Mode :	TX (5G) Mode Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz) Band 2C, (5470-5725MHz), Band 3 (5725-5850MHz)		

Test data reference attachment.

7. Frequency Stability Measurement

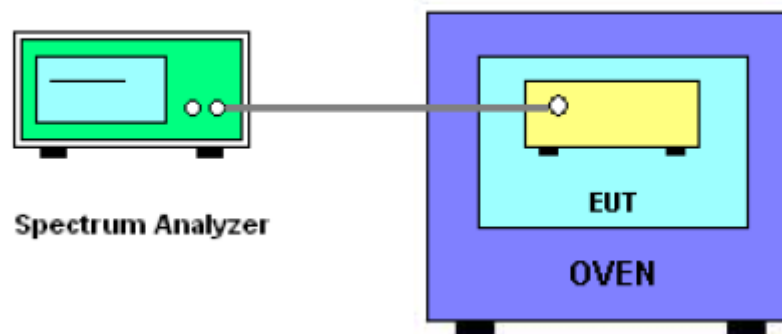
7.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm.
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is -20°C~70°C.

7.3 TEST SETUP LAYOUT



7.4 EUT OPERATION DURING TEST

1. The EUT was programmed to be in continuously un-modulation transmitting mode.

7.5 TEST RESULTS

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

The applications for equipment certification are not required to include test reports with explicit demonstration of compliance.

8. DYNAMIC FREQUENCY SELECTION(DFS)

8.1 APPLICABILITY OF DFS REQUIREMENTS

EUT is client and operates as client without radar detection function.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes
Client Beacon Test	N/A	Yes	Yes

Additional requirements for devices with multiple bandwidth modes	Operational Mode	
	Master or Client With Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

8.2 INTERFERENCE THRESHOLD VALUES, MASTER OR CLIENT INCORPORATING IN-SERVICE MONITORING

Maximum Transmit Power	Value (see notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain.	

8.3 DFS RESPONSE REQUIREMENT VALUES

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the 99% power bandwidth See Note 3.

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the Short pulse radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate Channel changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

8.4 SHORT PULSE RADAR TEST WAVEFORMS

As the EUT is a Client Device with no Radar Detection, only one type radar pulse is required for the testing. Radar Pulse type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	60%	30
1	1	Test A Test B	$\text{Roundup} \left(\frac{1}{360} \cdot \frac{19 \cdot 10^6}{\text{PRI}_{\text{max}}} \right)$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a

Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. For short pulse radar type 1, the same waveform is used a minimum of 30 times. If more than 30 waveforms are used for short pulse radar types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

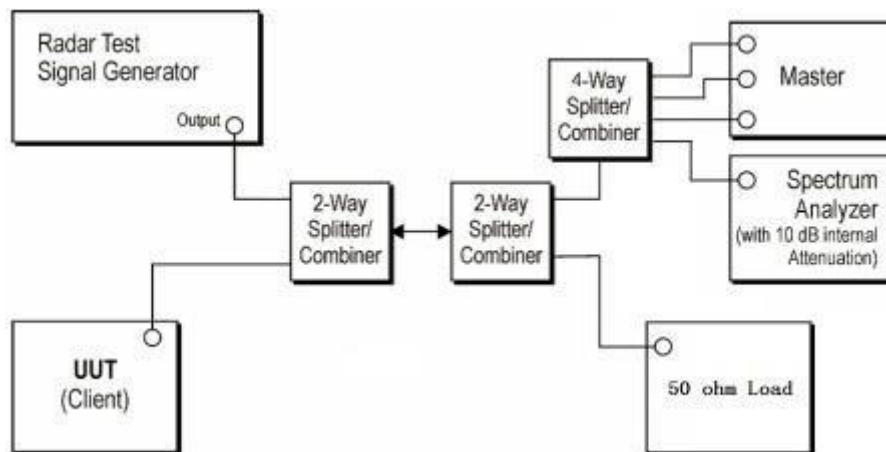
If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

8.5 CALIBRATION SETUP AND DFS TEST RESULTS

Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is $-62\text{dBm} - 2\text{dBi} + 1\text{dB} = -63\text{dBm}$ that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} - 2\text{dBi} + 1\text{dB} = -63\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

8.6 CONDUCTED CALIBRATION SETUP



Wireless AP	Manufacturer	ASUSTek Computer Inc
	Model NO.	AX5400
	FCC ID	MSQ-RTAXJ300

Note:1. The Slave device associated with the EUT during these tests does not have radar detection capability.

2. WLAN traffic is generated by using the iperf software to send packets from the Master IP address to the Slave IP address.

3. The time required for the master and slave devices to fully start up is 120s.

4. EUT does not support TPC.

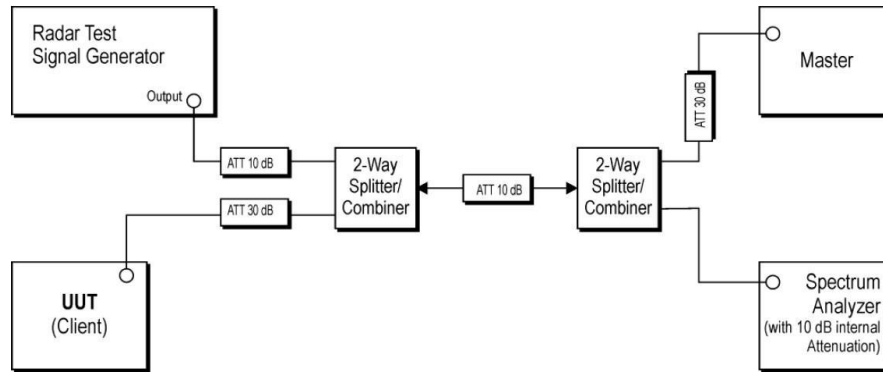
8.7 RADAR WAVEFORM CALIBRATION RESULT

Test data reference attachment.

8.8 IN-SERVICE MONITORING: CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD

TEST CONFIGURATION:

Setup for Client with injection at the Master



TEST PROCEDURE:

1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is Streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom In 600ms plot of the Short Pulse Radar Type
7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

TEST MODE:

Mode	Frequency (MHz)
n40	5310
n40	5510
a	5320
a	5500

8.9 RESULT OF CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD FOR CLIENT BEACON TEST

Test data reference attachment.

9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

9.2 EUT ANTENNA

The EUT antenna is permanent attached PCB Antenna (Gain: 2.64dBi). It comply with the standard requirement.

END OF REPORT