FCC Test Report

Report No.	:	**1814C50031712501**
Applicant	:	**Homerunpet Inc.**
Address	:	**18th St. Cheyenne, WY 82001 USA**
Product Name	:	**Smart cat litter box**
Report Date	:	**Mar. 20, 2025**

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant	:	Homerunpet Inc.
Manufacturer	:	Shenzhen Qianhai Homerun Smart Technology Co., Ltd.
Product Name	:	Smart cat litter box
Model No.	:	CS106
Trade Mark	:	N/A
Rating(s)	:	Input: 12V⎓, 5W
Test Standard(s)	**:**	**47 CFR Part 15.249**
Test Method(s)	**:**	**ANSI C63.10: 2020**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 15.249 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt Feb. 17, 2025

Date of Test Feb. 17, 2025 to Feb. 26, 2025

Prepared by

(TuTu Hong)

Approved & Authorized Signer

(Hugo Chen)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 20, 2025

1. General Information

1.1. Client Information

Applicant	:	Homerunpet Inc.
Address	:	18th St. Cheyenne, WY 82001 USA
Manufacturer	:	Shenzhen Qianhai Homerun Smart Technology Co., Ltd.
Address	:	Room 401-B09F, Phase I, CMG Qianhai Economic and Trade Center, No. 151 Free Trade West Street, Nanshan Sub-district, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	:	Smart cat litter box
Model No.	:	CS106
Trade Mark	:	N/A
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Manufacturer: SHENZHENKEYUPOWERSUPPLYTECHNOLOGYCO.,TD MODEL: KA2401A-1202000US INPUT: 100-240V~50/60Hz 0.65A Max OUTPUT: 12V⎓2000mA
RF Specification		
Operation Frequency	:	5851~5870MHz
Number of Channel	:	20 Channels
Modulation Type	:	CW
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	0.54dBi
Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

1.4. Description of Test Configuration

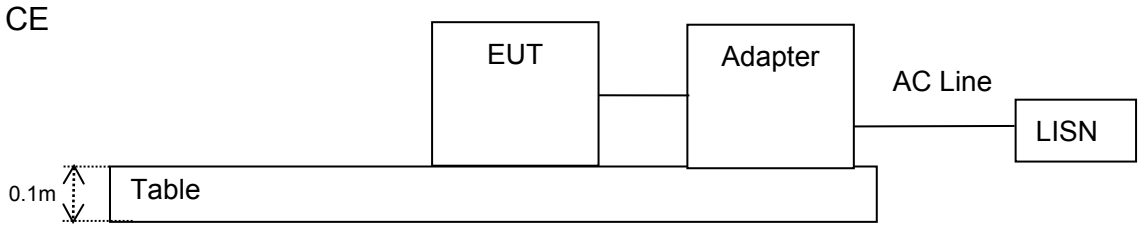
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	**5851**	05	5855	09	5859	13	5863	17	5867
02	5852	06	5856	**10**	**5860**	14	5864	18	5868
03	5853	07	5858	11	5861	15	5865	19	5869
04	5854	08	5858	12	5862	16	5866	**20**	**5870**

Note:

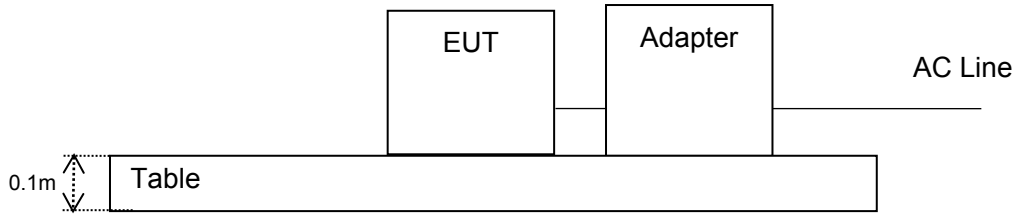
1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT was tested with Channel 01, 10 and 20.

1.5. Description of Test Setup

CE



RE



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Sep. 09, 2024	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jan. 13, 2025	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jan. 13, 2025	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 14, 2025	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Sep. 09, 2024	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	Jan. 13, 2025	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna(9K-30M)	Schwarzbeck	FMZB1519B	00053	Sep. 12, 2024	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Jan. 22, 2024	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	Jan. 14, 2025	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Sep. 09, 2024	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	Jan. 14, 2025	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Feb. 21, 2025	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Sep. 09, 2024	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 14, 2024	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	May. 06, 2024	1 Year

1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Occupied Bandwidth	925Hz
Radiated spurious emissions (Below 30MHz)	3.26dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.64dB 6G-18GHz: 4.82dB 18G-40GHz: 5.62dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Summary of Test Results

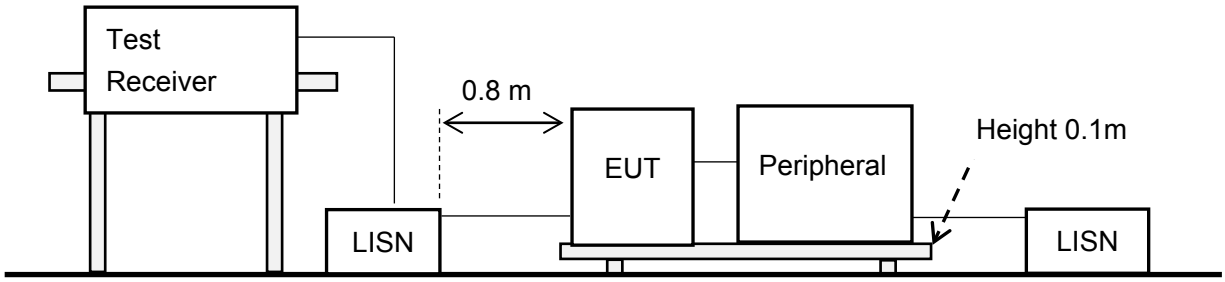
Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209/15.249	Radiated Emission	PASS
15.249(d)	Band Edge	PASS
15.215(c)	20dB Bandwidth	PASS
Remark: “N/A” is an abbreviation for Not Applicable.		

3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50
Remark: (1) *Decreasing linearly with logarithm of the frequency. (2) The lower limit shall apply at the transition frequency.			

1.1. Test Setup



1.2. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

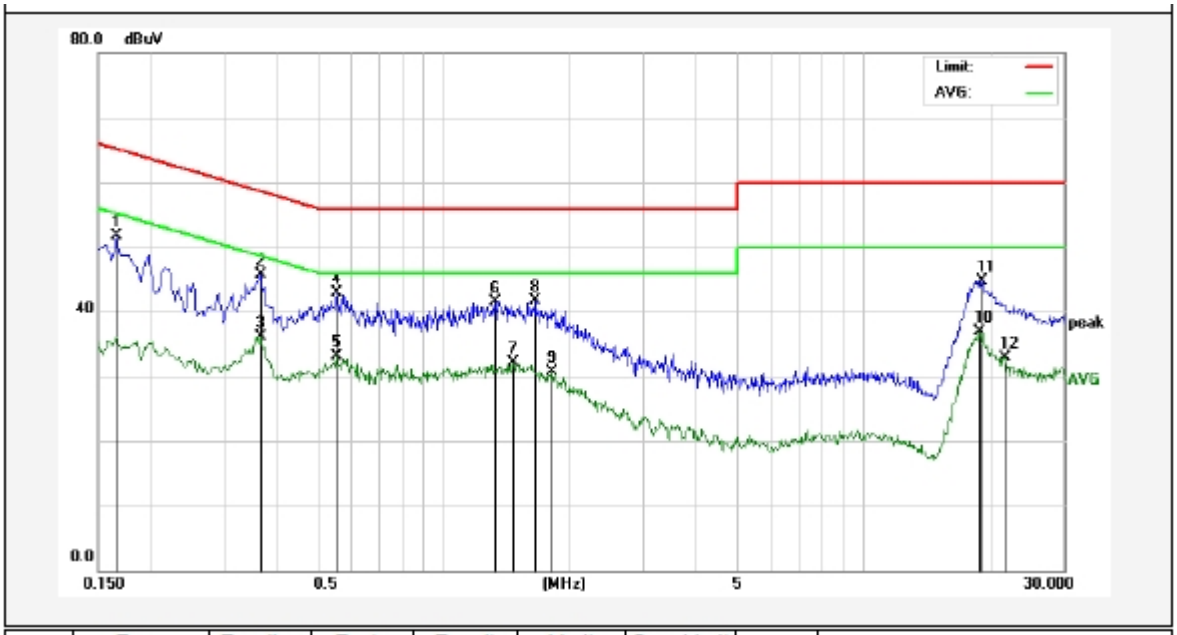
3.2. Test Data

During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.

Conducted Emission Test Data

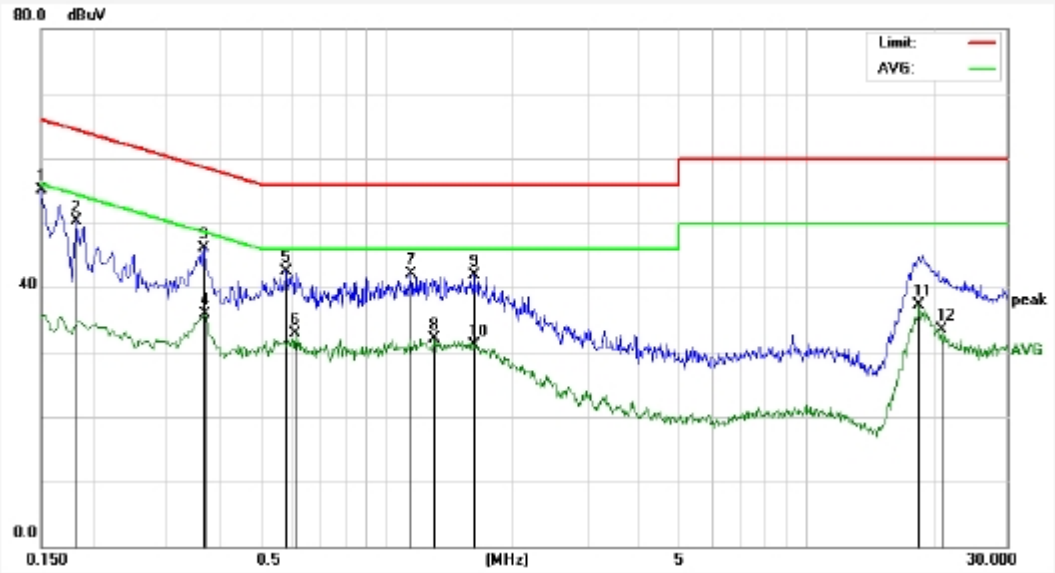
Test Site:	1# Shielded Room
Operating Condition:	Low CH (5851MHz)
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Live Line
Temp.(℃)/Hum.(%RH):	22.1℃/52%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1660	33.79	17.83	51.62	65.15	-13.53	QP	
2	0.3660	27.84	17.82	45.66	58.59	-12.93	QP	
3	0.3660	18.32	17.82	36.14	48.59	-12.45	AVG	
4	0.5580	25.00	17.86	42.86	56.00	-13.14	QP	
5	0.5580	15.24	17.86	33.10	46.00	-12.90	AVG	
6	1.3260	23.61	17.84	41.45	56.00	-14.55	QP	
7	1.4660	14.22	17.84	32.06	46.00	-13.94	AVG	
8	1.6620	23.89	17.84	41.73	56.00	-14.27	QP	
9	1.8180	12.81	17.84	30.65	46.00	-15.35	AVG	
10	18.8700	18.65	18.27	36.92	50.00	-13.08	AVG	
11	19.1820	26.51	18.29	44.80	60.00	-15.20	QP	
12	21.7260	14.40	18.59	32.99	50.00	-17.01	AVG	

Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	Low CH (5851MHz)
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Neutral Line
Temp.(℃)/Hum.(%RH):	22.1℃/52%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	37.34	17.82	55.16	65.99	-10.83	QP	
2	0.1819	32.53	17.83	50.36	64.39	-14.03	QP	
3	0.3660	28.23	17.82	46.05	58.59	-12.54	QP	
4	0.3700	18.13	17.82	35.95	48.50	-12.55	AVG	
5	0.5780	24.68	17.86	42.54	56.00	-13.46	QP	
6	0.6060	15.13	17.86	32.99	46.00	-13.01	AVG	
7	1.1420	24.26	17.85	42.11	56.00	-13.89	QP	
8	1.3020	14.26	17.84	32.10	46.00	-13.90	AVG	
9	1.6140	24.14	17.84	41.98	56.00	-14.02	QP	
10	1.6220	13.30	17.84	31.14	46.00	-14.86	AVG	
11	18.5780	19.12	18.26	37.38	50.00	-12.62	AVG	
12	20.9540	15.03	18.45	33.48	50.00	-16.52	AVG	

4. Radiated Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:
(1)The lower limit shall apply at the transition frequency.
(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Standard	FCC Part15 C Section 15.249					
Test Limit	Frequency (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	5725~5875	50	-	114.0	Peak	3
	5725~5875	50	-	94.0	Average	3
	5725~5875	-	500	74.0	Peak	3
	5725~5875	-	500	54.0	Average	3

Remark:
(1)15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.
(2)Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

4.2. Test Setup

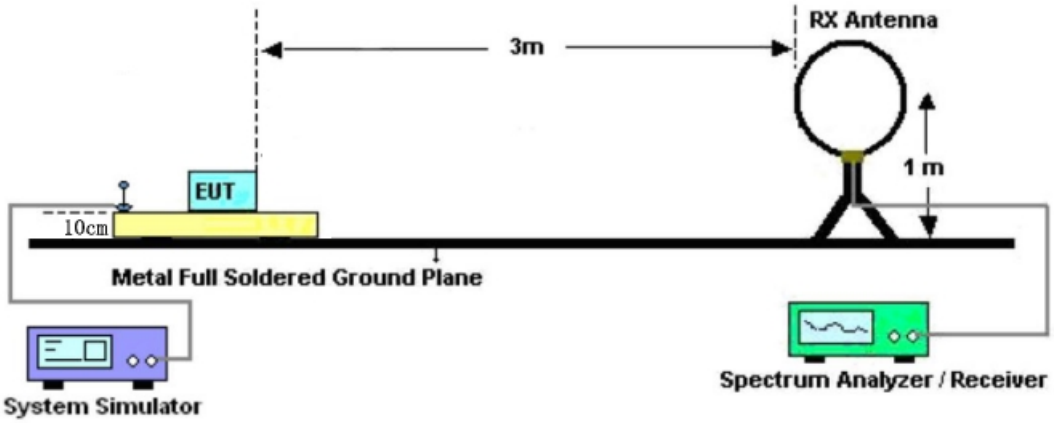


Figure 1. Below 30MHz

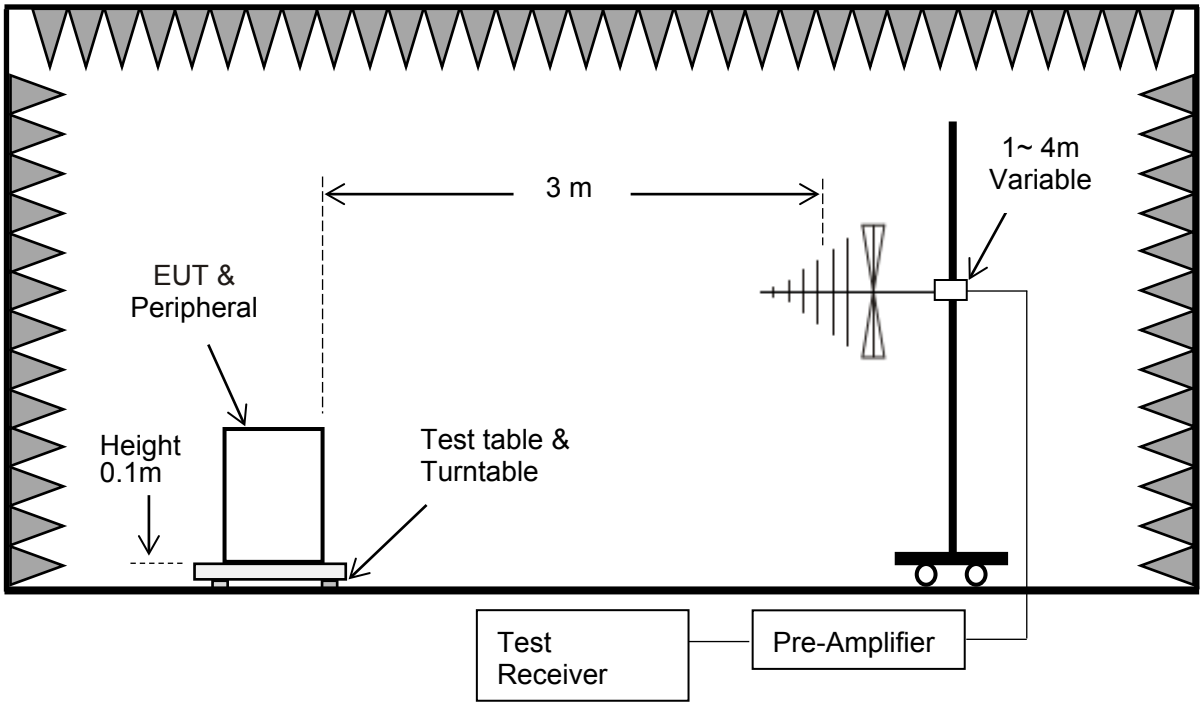


Figure 2. 30MHz to 1GHz

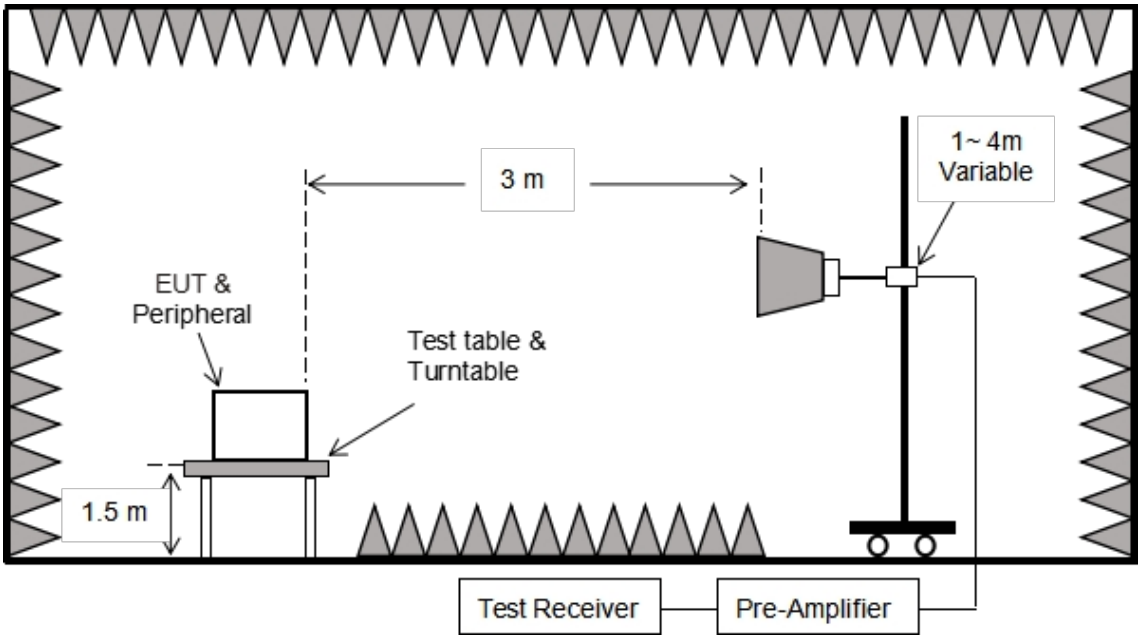


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.1m above the ground plane.
For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.
The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:
RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:
RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:
RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz,Set the spectrum analyzer as:
RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.
RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

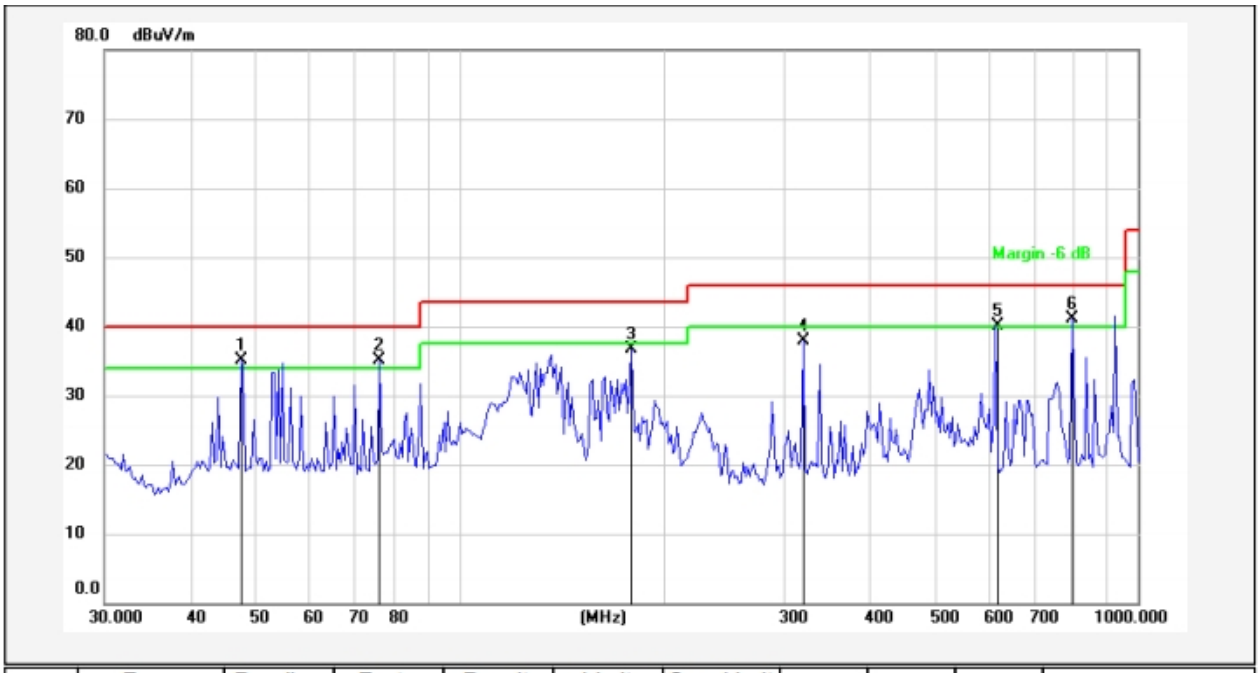
During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all the modes, only the worst case is recorded in the report.

Test Results (30~1000MHz)

Test Mode:	Low CH (5851MHz)
Power Source:	AC 120V, 60Hz for adapter
Polarization:	Vertical
Temp.(℃)/Hum.(%RH):	22.5℃/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	47.6584	49.57	-14.49	35.08	40.00	-4.92	QP			
2	76.2442	56.97	-21.92	35.05	40.00	-4.95	QP			
3	179.3863	56.04	-19.28	36.76	43.50	-6.74	QP			
4	321.0605	52.63	-14.80	37.83	46.00	-8.17	QP			
5	616.3718	49.01	-8.91	40.10	46.00	-5.90	QP			
6	798.9796	47.95	-6.85	41.10	46.00	-4.90	QP			

Test Results (30~1000MHz)

Test Mode:	Low CH (5851MHz)
Power Source:	AC 120V, 60Hz for adapter
Polarization:	Horizontal
Temp.(℃)/Hum.(%RH):	22.5℃/50%RH

No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	53.6932	42.55	-15.05	27.50	40.00	-12.50	QP			
2	132.6850	48.63	-20.72	27.91	43.50	-15.59	QP			
3	171.9946	59.02	-20.12	38.90	43.50	-4.60	QP			
4	321.0608	57.27	-14.80	42.47	46.00	-3.53	QP			
5	714.1734	48.94	-8.06	40.88	46.00	-5.12	QP			
6	845.0878	42.47	-6.23	36.24	46.00	-9.76	QP			

Test Results (1GHz-40GHz)

Test channel: Lowest						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5851.00	82.69	9.75	92.44	114.00	-21.56	Vertical
11702.00	27.66	15.27	42.93	74.00	-31.07	Vertical
17553.00	26.39	18.09	44.48	74.00	-29.52	Vertical
23404.00	27.01	23.76	50.77	74.00	-23.23	Vertical
29255.00	*			74.00		Vertical
35106.00	*			74.00		Vertical
5851.00	82.58	9.75	92.33	114.00	-21.67	Horizontal
11702.00	24.33	15.27	39.60	74.00	-34.40	Horizontal
17553.00	25.27	18.09	43.36	74.00	-30.64	Horizontal
23404.00	31.41	23.76	55.17	74.00	-18.83	Horizontal
29255.00	*			74.00		Horizontal
35106.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
5851.00	74.24	9.75	83.99	94.00	-10.01	Vertical
11702.00	13.85	15.27	29.12	54.00	-24.88	Vertical
17553.00	15.93	18.09	34.02	54.00	-19.98	Vertical
23404.00	21.10	23.76	44.86	54.00	-9.14	Vertical
29255.00	*			54.00		Vertical
35106.00	*			54.00		Vertical
5851.00	69.96	9.75	79.71	94.00	-14.29	Horizontal
11702.00	17.03	15.27	32.30	54.00	-21.70	Horizontal
17553.00	17.59	18.09	35.68	54.00	-18.32	Horizontal
23404.00	17.09	23.76	40.85	54.00	-13.15	Horizontal
29255.00	*			54.00		Horizontal
35106.00	*			54.00		Horizontal

Remark:

1.Result =Reading + Factor

2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Test Results (1GHz-40GHz)

Test channel: Middle						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5860.00	81.19	9.75	90.94	114.00	-23.06	Vertical
11720.00	29.21	15.27	44.48	74.00	-29.52	Vertical
17580.00	31.59	18.09	49.68	74.00	-24.32	Vertical
23440.00	30.81	23.76	54.57	74.00	-19.43	Vertical
29300.00	*			74.00		Vertical
35160.00	*			74.00		Vertical
5860.00	78.38	9.75	88.13	114.00	-25.87	Horizontal
11720.00	22.83	15.27	38.10	74.00	-35.90	Horizontal
17580.00	28.48	18.09	46.57	74.00	-27.43	Horizontal
23440.00	29.87	23.76	53.63	74.00	-20.37	Horizontal
29300.00	*			74.00		Horizontal
35160.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
5860.00	69.38	9.75	79.13	94.00	-14.87	Vertical
11720.00	16.85	15.27	32.12	54.00	-21.88	Vertical
17580.00	13.64	18.09	31.73	54.00	-22.27	Vertical
23440.00	15.31	23.76	39.07	54.00	-14.93	Vertical
29300.00	*			54.00		Vertical
35160.00	*			54.00		Vertical
5860.00	72.62	9.75	82.37	94.00	-11.63	Horizontal
11720.00	15.33	15.27	30.60	54.00	-23.40	Horizontal
17580.00	13.50	18.09	31.59	54.00	-22.41	Horizontal
23440.00	16.23	23.76	39.99	54.00	-14.01	Horizontal
29300.00	*			54.00		Horizontal
35160.00	*			54.00		Horizontal

Remark:

1.Result =Reading + Factor

2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Test Results (1GHz-40GHz)

Test channel: Highest						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5870.00	79.43	9.75	89.18	114.00	-24.82	Vertical
11740.00	27.53	15.27	42.80	74.00	-31.21	Vertical
17610.00	25.54	18.09	43.63	74.00	-30.37	Vertical
23480.00	31.72	23.76	55.48	74.00	-18.52	Vertical
29350.00	*			74.00		Vertical
35220.00	*			74.00		Vertical
5870.00	79.08	9.75	88.83	114.00	-25.17	Horizontal
11740.00	27.21	15.27	42.48	74.00	-31.52	Horizontal
17610.00	29.39	18.09	47.48	74.00	-26.52	Horizontal
23480.00	24.92	23.76	48.68	74.00	-25.32	Horizontal
29350.00	*			74.00		Horizontal
35220.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
5870.00	73.54	9.75	83.29	94.00	-10.71	Vertical
11740.00	13.44	15.27	28.71	54.00	-25.30	Vertical
17610.00	16.40	18.09	34.49	54.00	-19.51	Vertical
23480.00	13.28	23.76	37.04	54.00	-16.96	Vertical
29350.00	*			54.00		Vertical
35220.00	*			54.00		Vertical
5870.00	73.69	9.75	83.44	94.00	-10.56	Horizontal
11740.00	15.71	15.27	30.98	54.00	-23.02	Horizontal
17610.00	23.48	18.09	41.57	54.00	-12.43	Horizontal
23480.00	16.92	23.76	40.68	54.00	-13.32	Horizontal
29350.00	*			54.00		Horizontal
35220.00	*			54.00		Horizontal

Remark:

1.Result =Reading + Factor

2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Radiated Band Edge:

Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Antenna Pol.	Detector
5720.00	20.12	9.75	29.87	42.33	-12.46	H	Peak
5720.00	20.44	9.75	30.19	42.44	-12.25	V	Peak
5720.00	10.23	9.75	19.98	22.33	-2.35	H	AVG
5720.00	10.22	9.75	19.97	22.44	-2.47	V	AVG
5725.00	21.09	9.75	30.84	42.33	-11.49	H	Peak
5725.00	21.64	9.75	31.39	42.44	-11.05	V	Peak
5725.00	10.16	9.75	19.91	22.33	-2.42	H	AVG
5725.00	10.27	9.75	20.02	22.44	-2.42	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Antenna Pol.	Detector
5875.00	19.11	9.75	28.86	38.83	-9.97	H	Peak
5875.00	19.32	9.75	29.07	39.18	-10.11	V	Peak
5875.00	7.35	9.75	17.10	18.83	-1.73	H	AVG
5875.00	7.21	9.75	16.96	19.18	-2.22	V	AVG
5877.00	20.97	9.75	30.72	38.83	-8.11	H	Peak
5877.00	20.94	9.75	30.69	39.18	-8.49	V	Peak
5877.00	7.23	9.75	16.98	18.83	-1.85	H	AVG
5877.00	7.36	9.75	17.11	19.18	-2.07	V	AVG

Remark:

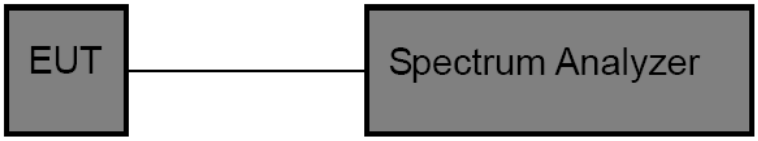
1. Level =Reading+ Factor

5. 20dB Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
Test Limit	N/A

5.2. Test Setup



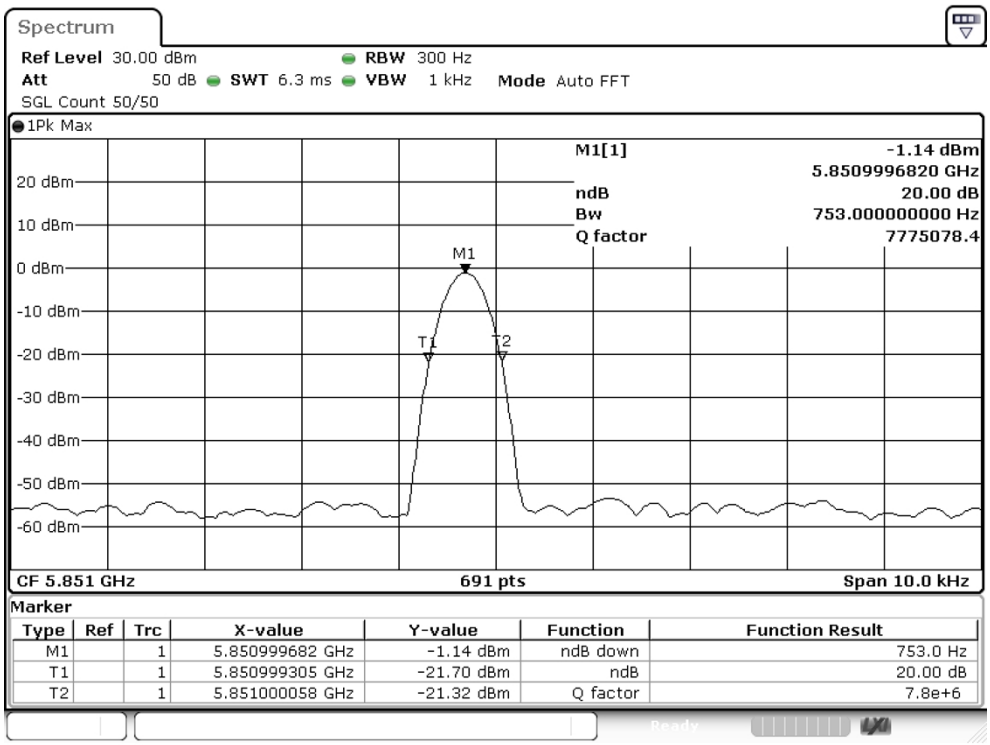
5.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
   RBW = 1%-5%OBW,VBW≥3*RBW
   Detector= Average
   Trace mode= Max hold.
   Sweep- auto couple.
4. Mark the peak frequency and –20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

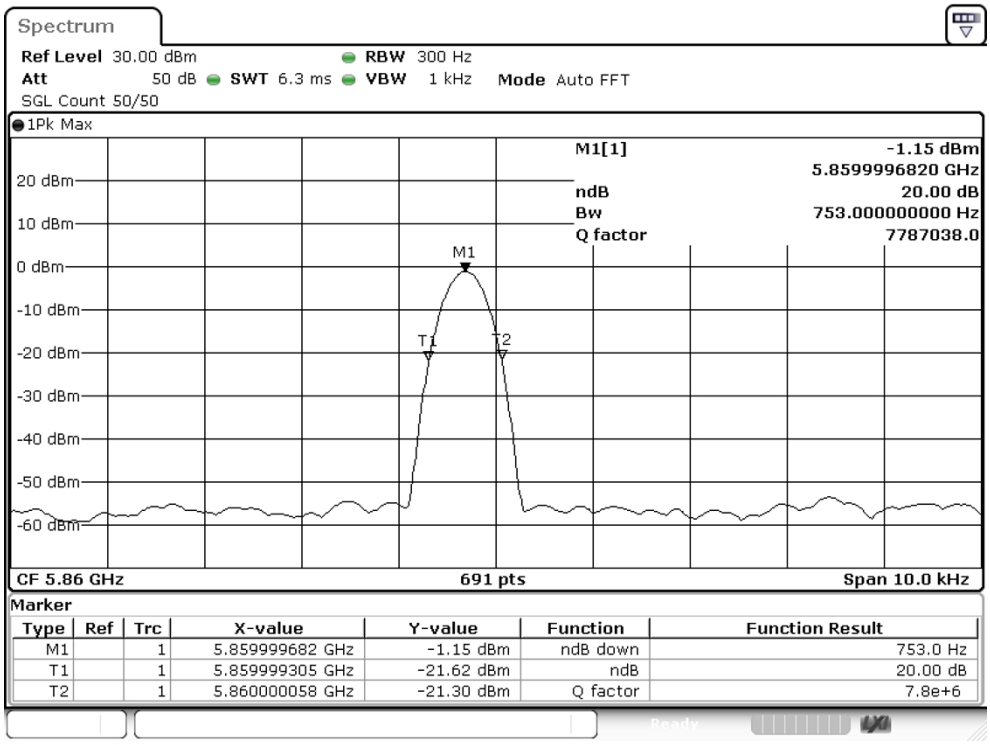
5.4. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa

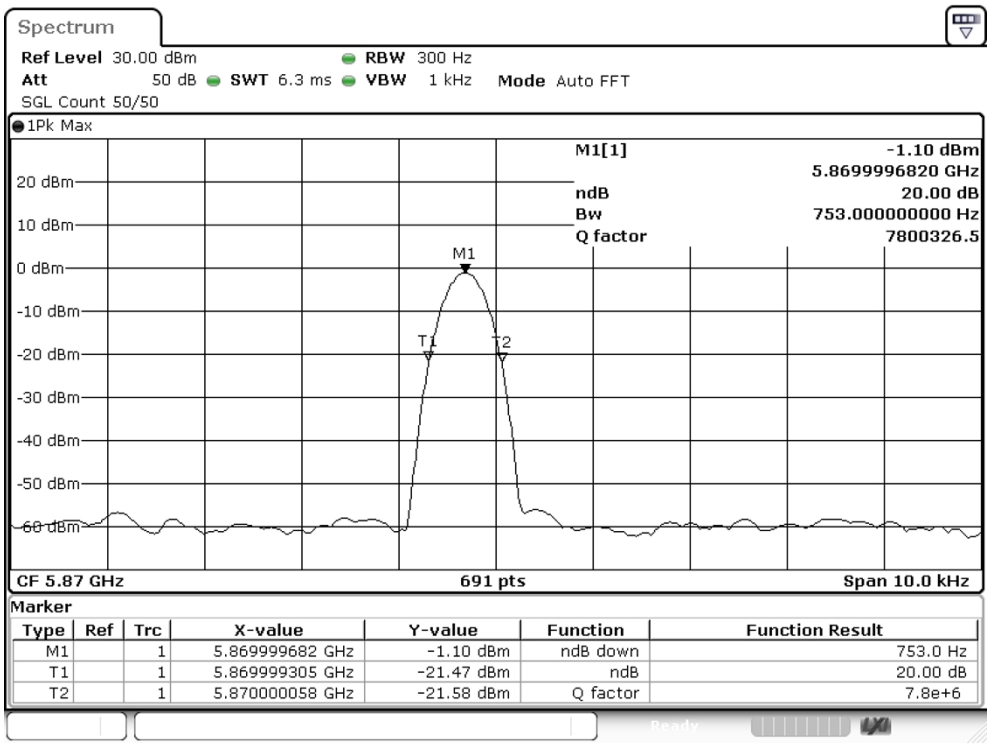
Channel	Bandwidth (kHz)	Result
Low	0.753	PASS
Middle	0.753	PASS
High	0.753	PASS



Low Channel



Mid Channel



High Channel

Note: The measured signal is Cw-ike, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perfomm the occupied bandwidth test.

6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 0.54 dBi. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

---------- End of Report ----------

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