

FCC Test Report

Client Name : Anker Innovations Limited

Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road,
Mongkok, Kowloon, Hongkong

Product Name : Dog Training Collar

Date : Aug. 27, 2021

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Anker Innovations Limited
Manufacturer : Anker Innovations Limited
Product Name : Dog Training Collar
Model No. : T7250
Trade Mark : eufy SECURITY
Rating(s) : Input: DC 5V, 1A(with DC 3.7V, 250mAh battery inside)

Test Standard(s) : FCC Part15 Subpart C, Section 15.231

Test Method(s) : ANSI C63.10: 2013

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 FCC Part 15 Subpart C 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

Aug. 11, 2021

Date of Test

Aug. 11~21, 2021

Prepared by

Ella Liang

(Ella Liang)

Approved & Authorized Signer

Kingkong Jin

(Kingkong Jin)

1. General Information

1.1. Client Information

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong

1.2. Description of Device (EUT)

Product Name	:	Dog Training Collar	
Model No.	:	T7250	
Trade Mark	:	eufy SECURITY	
Test Power Supply	:	AC 240V, 60Hz for Adapter/ AC 120V, 60Hz for Adapter/DC 3.7V battery inside	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	433.92MHZ
	:	Number of Channel:	1 Channel
	:	Modulation Type:	FSK
	:	Antenna Type:	Spring antenna
	:	Antenna Gain(Peak):	0 dBi
	:	Adapter:	N.A.
Remark: 1) 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

Adapter	:	M/N: A2023 Input: AC 100-240V 0.7A 50-60Hz USB1 Output: DC 5V 2.4A USB1 Output: DC 5V 2.4A
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1.4. 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.

Pretest Mode	Description
Mode 1	TX Mode
Mode 2	Charging mode

For Conducted Emission	
Final Test Mode	Description
Mode 2	Charging mode

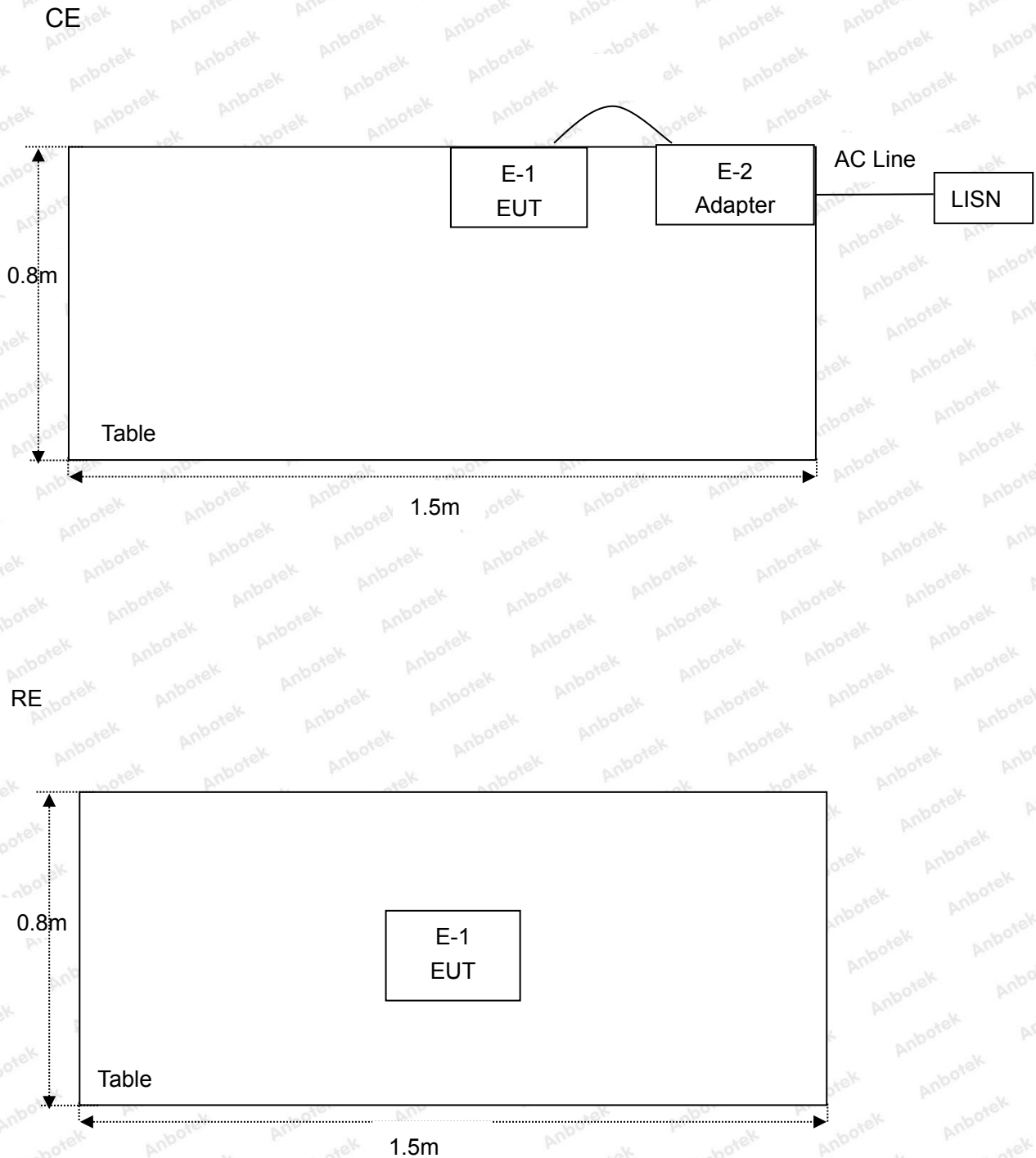
For Radiated Emission	
Final Test Mode	Description
Mode 1	TX Mode

Note: During the test, the EUT was keeping continuous transmission.

1.5. List of channels

Channel	Freq. (MHz)	Note (Modulation Type)
01	433.92	ASK

1.6. Description Of Test Setup



1.7. 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	Oct. 26, 2020	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 26, 2020	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 26, 2020	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 26, 2020	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 26, 2020	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 02, 2020	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 02, 2020	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 02, 2020	2 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	J211060628	Nov. 02, 2020	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 26, 2020	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 26, 2020	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Oct. 26, 2020	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Oct. 26, 2020	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 26, 2020	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 26, 2020	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 26, 2020	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 26, 2020	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.9. Description of Test Facility

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

FCC-Registration No.: 184111

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. 184111, September 30, 2020.

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, September 30, 2020.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209/15.231(b)	Spurious Emission	PASS
15.231(c)	20dB Occupied Bandwidth	PASS
15.231(a)	Dwell time	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

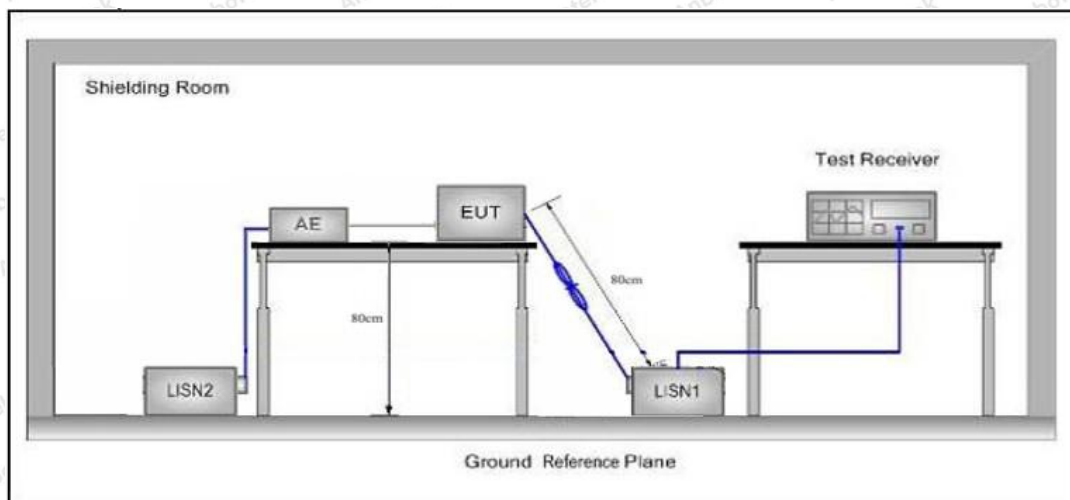
3. Conducted Emission Test

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.

3.2. Test Setup



3.3. 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 C63.10-2013 on Conducted Emission Measurement.

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

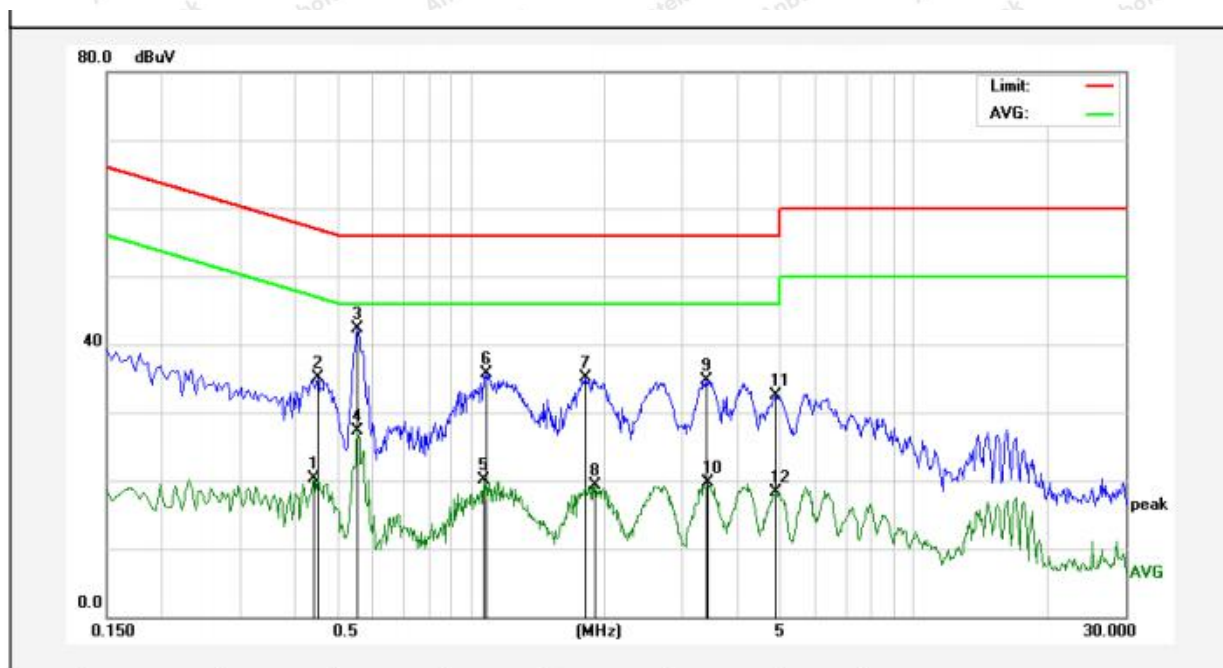
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages.

Conducted Emission Test Data

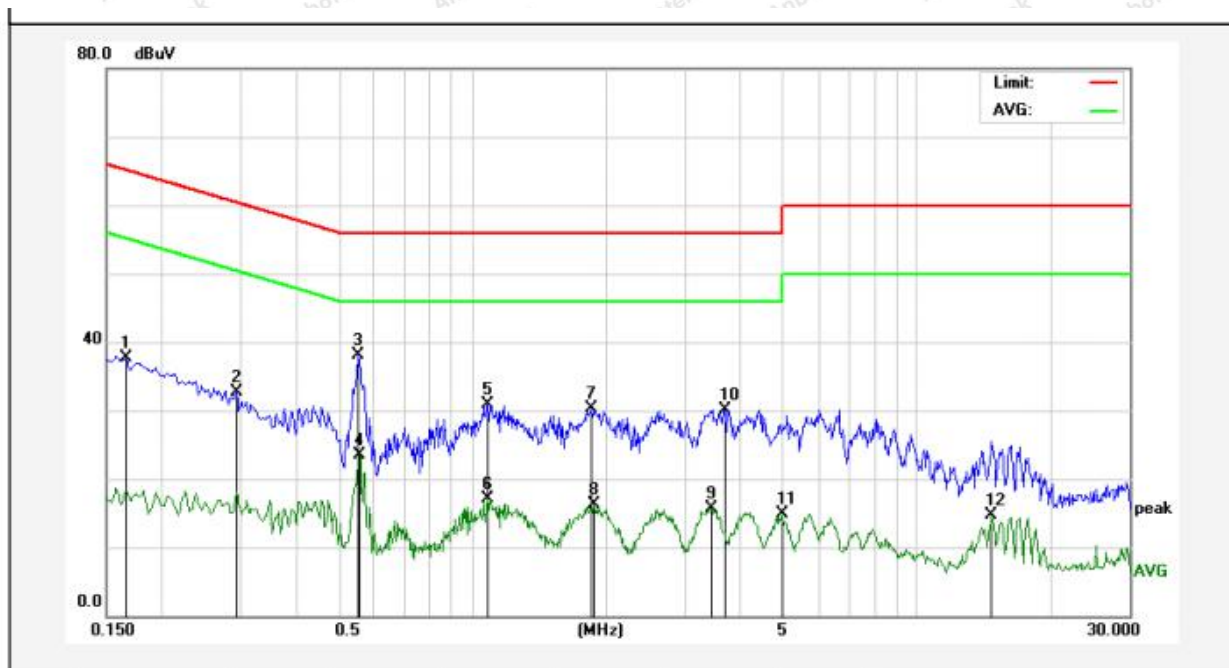
Test Site: 1# Shielded Room
Operating Condition: Mode 2
Test Specification: AC 240V, 60Hz for Adapter
Comment: Live Line
Tem.: 23.6°C Hum.: 46%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4420	10.18	10.19	20.37	47.02	-26.65	AVG	
2	0.4500	24.93	10.20	35.13	56.87	-21.74	QP	
3	0.5540	32.00	10.24	42.24	56.00	-13.76	QP	
4	0.5540	17.09	10.24	27.33	46.00	-18.67	AVG	
5	1.0660	9.92	10.26	20.18	46.00	-25.82	AVG	
6	1.0780	25.54	10.26	35.80	56.00	-20.20	QP	
7	1.8140	24.87	10.26	35.13	56.00	-20.87	QP	
8	1.9060	9.14	10.25	19.39	46.00	-26.61	AVG	
9	3.3980	24.47	10.29	34.76	56.00	-21.24	QP	
10	3.4180	9.33	10.29	19.62	46.00	-26.38	AVG	
11	4.8700	22.45	10.14	32.59	56.00	-23.41	QP	
12	4.8780	8.20	10.14	18.34	46.00	-27.66	AVG	

Conducted Emission Test Data

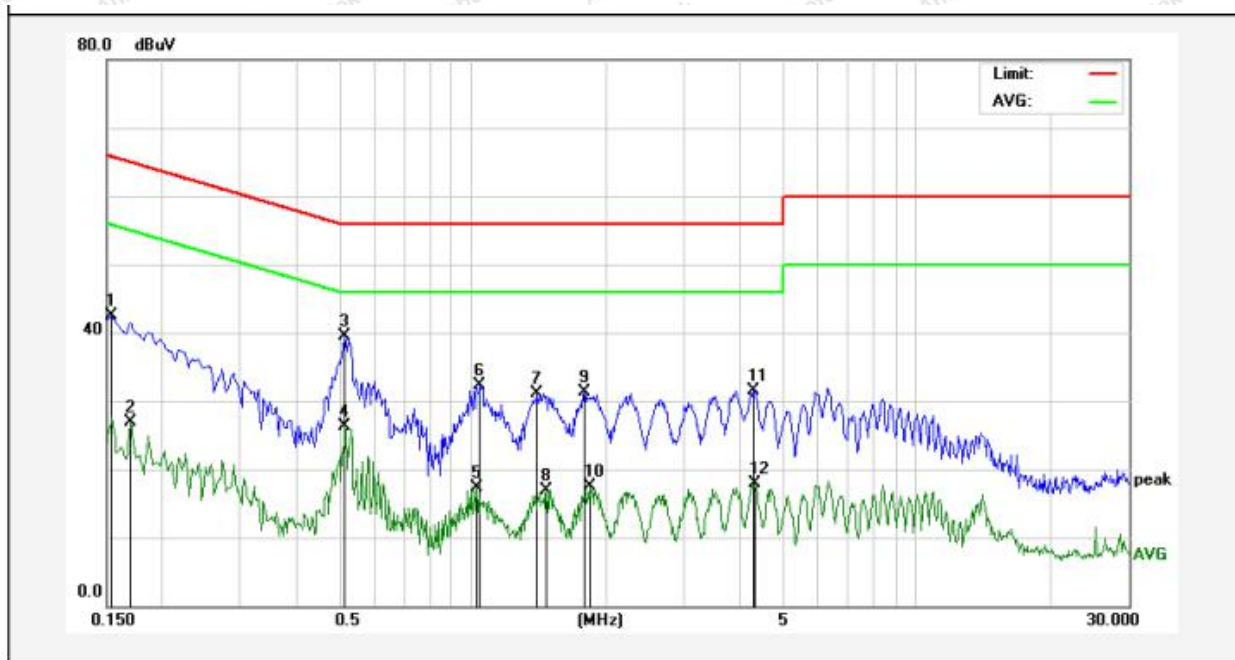
Test Site: 1# Shielded Room
Operating Condition: Mode 2
Test Specification: AC 240V, 60Hz for Adapter
Comment: Neutral Line
Tem.: 23.6°C Hum.: 46%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1660	27.66	10.00	37.66	65.15	-27.49	QP	
2	0.2940	22.63	10.11	32.74	60.41	-27.67	QP	
3	0.5540	27.78	10.28	38.06	56.00	-17.94	QP	
4	0.5580	13.15	10.28	23.43	46.00	-22.57	AVG	
5	1.0780	20.66	10.23	30.89	56.00	-25.11	QP	
6	1.0780	6.97	10.23	17.20	46.00	-28.80	AVG	
7	1.8500	20.13	10.17	30.30	56.00	-25.70	QP	
8	1.8740	6.17	10.17	16.34	46.00	-29.66	AVG	
9	3.4500	5.48	10.15	15.63	46.00	-30.37	AVG	
10	3.6900	20.04	10.15	30.19	56.00	-25.81	QP	
11	4.9780	4.74	10.12	14.86	46.00	-31.14	AVG	
12	14.7020	4.45	10.16	14.61	50.00	-35.39	AVG	

Conducted Emission Test Data

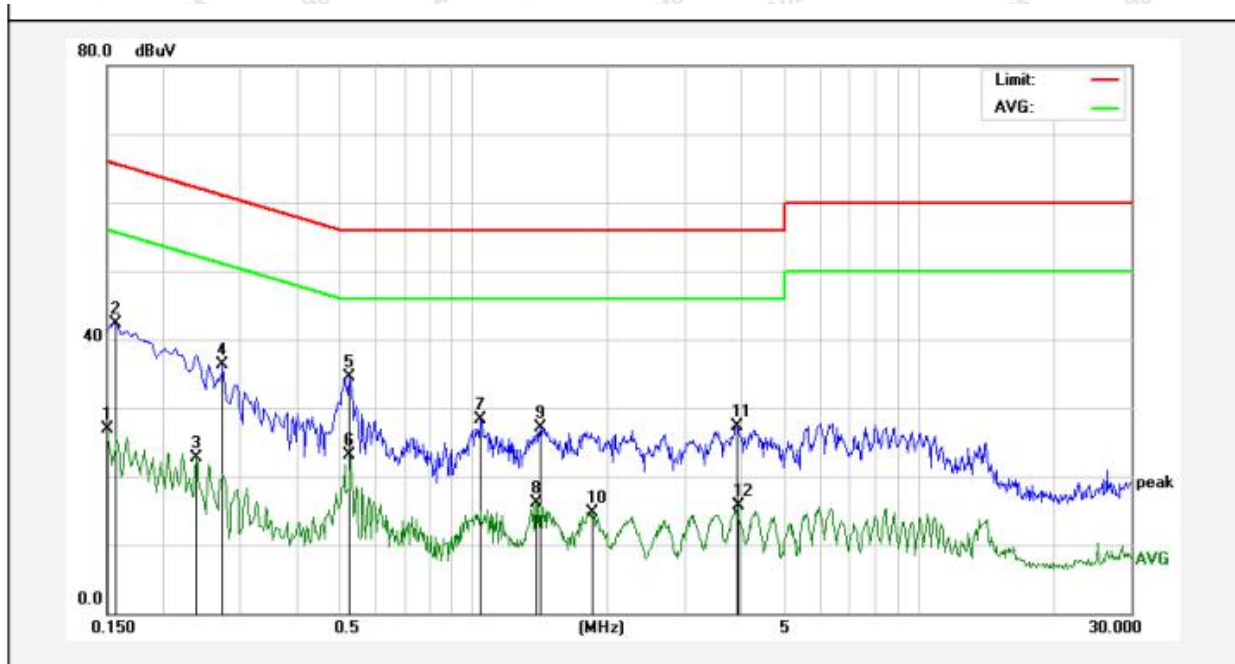
Test Site: 1# Shielded Room
Operating Condition: Mode 2
Test Specification: AC 120V, 60Hz for Adapter
Comment: Live Line
Tem.: 23.8°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	32.41	10.01	42.42	65.78	-23.36	QP	
2	0.1700	16.90	10.00	26.90	54.96	-28.06	AVG	
3	0.5180	29.24	10.23	39.47	56.00	-16.53	QP	
4	0.5180	15.98	10.23	26.21	46.00	-19.79	AVG	
5	1.0220	6.95	10.26	17.21	46.00	-28.79	AVG	
6	1.0380	22.04	10.26	32.30	56.00	-23.70	QP	
7	1.4020	20.83	10.26	31.09	56.00	-24.91	QP	
8	1.4700	6.68	10.26	16.94	46.00	-29.06	AVG	
9	1.7900	21.08	10.26	31.34	56.00	-24.66	QP	
10	1.8380	7.25	10.25	17.50	46.00	-28.50	AVG	
11	4.2900	21.40	10.20	31.60	56.00	-24.40	QP	
12	4.3260	7.70	10.19	17.89	46.00	-28.11	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Mode 2
Test Specification: AC 120V, 60Hz for Adapter
Comment: Neutral Line
Tem.: 23.8°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	16.87	9.98	26.85	55.99	-29.14	AVG	
2	0.1580	32.23	10.00	42.23	65.56	-23.33	QP	
3	0.2380	12.75	10.05	22.80	52.16	-29.36	AVG	
4	0.2740	26.12	10.09	36.21	60.99	-24.78	QP	
5	0.5260	24.20	10.28	34.48	56.00	-21.52	QP	
6	0.5299	12.80	10.28	23.08	46.00	-22.92	AVG	
7	1.0380	18.06	10.23	28.29	56.00	-27.71	QP	
8	1.3820	5.83	10.21	16.04	46.00	-29.96	AVG	
9	1.4180	16.87	10.21	27.08	56.00	-28.92	QP	
10	1.8500	4.50	10.17	14.67	46.00	-31.33	AVG	
11	3.9060	17.10	10.15	27.25	56.00	-28.75	QP	
12	3.9340	5.54	10.15	15.69	46.00	-30.31	AVG	

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209, 15.205 and 15.231(b)				
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.

the formulas for calculating the maximum permitted fundamental field strengths are as follows:

for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$.

The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level

Emission Level (dBuV/m) = $20\log$ Emission Level($\mu\text{V/m}$)

The field strength of emission limits have been calculated in below table:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m)@3m
433.92	80.81 (AVG)
433.92	100.81 (Peak)

4.2. Test Setup

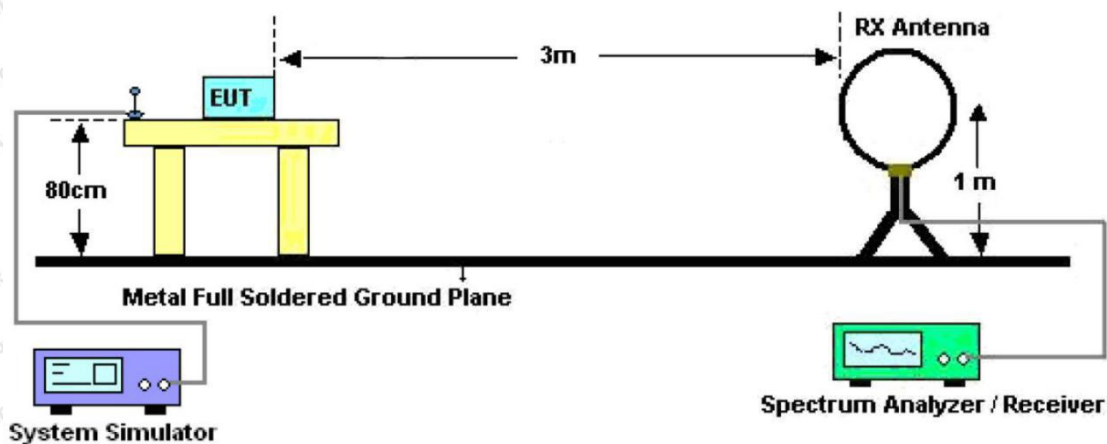


Figure 1. Below 30MHz

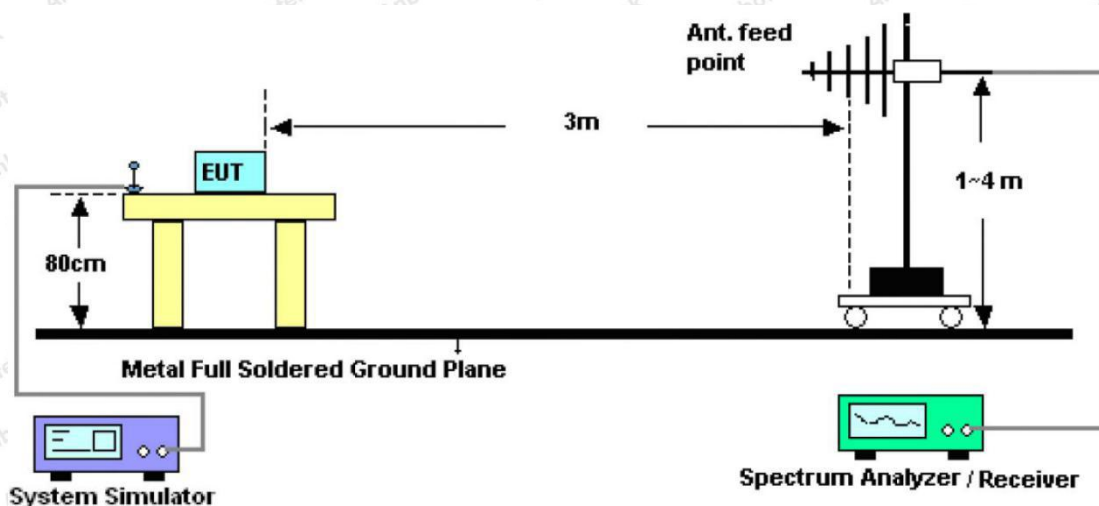


Figure 2. 30MHz to 1GHz

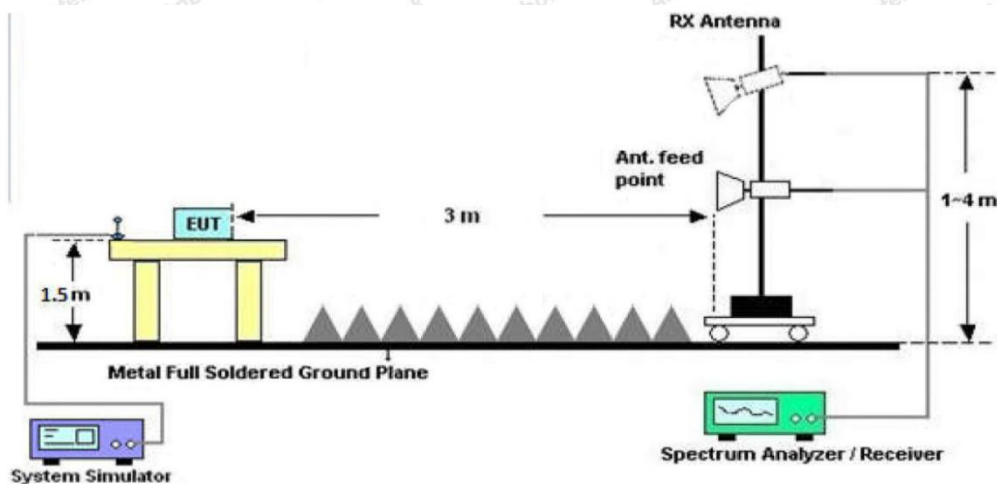


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m 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 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

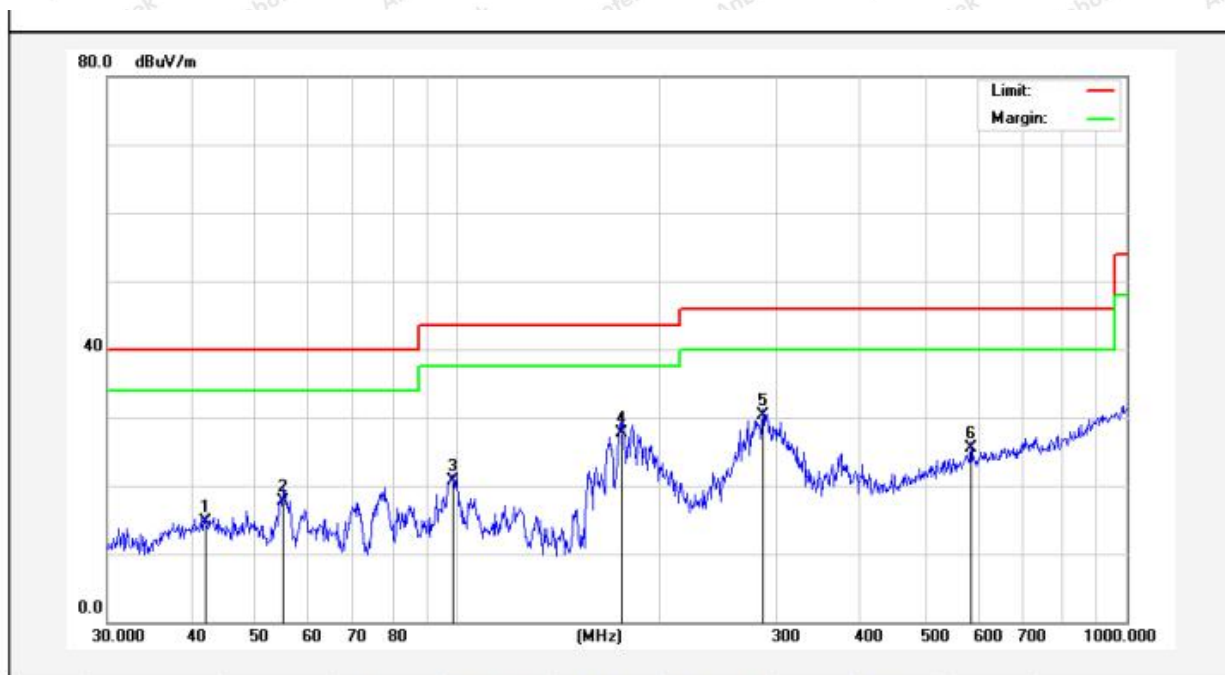
PASS

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 and above 18000MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Test Results (30~1000MHz)

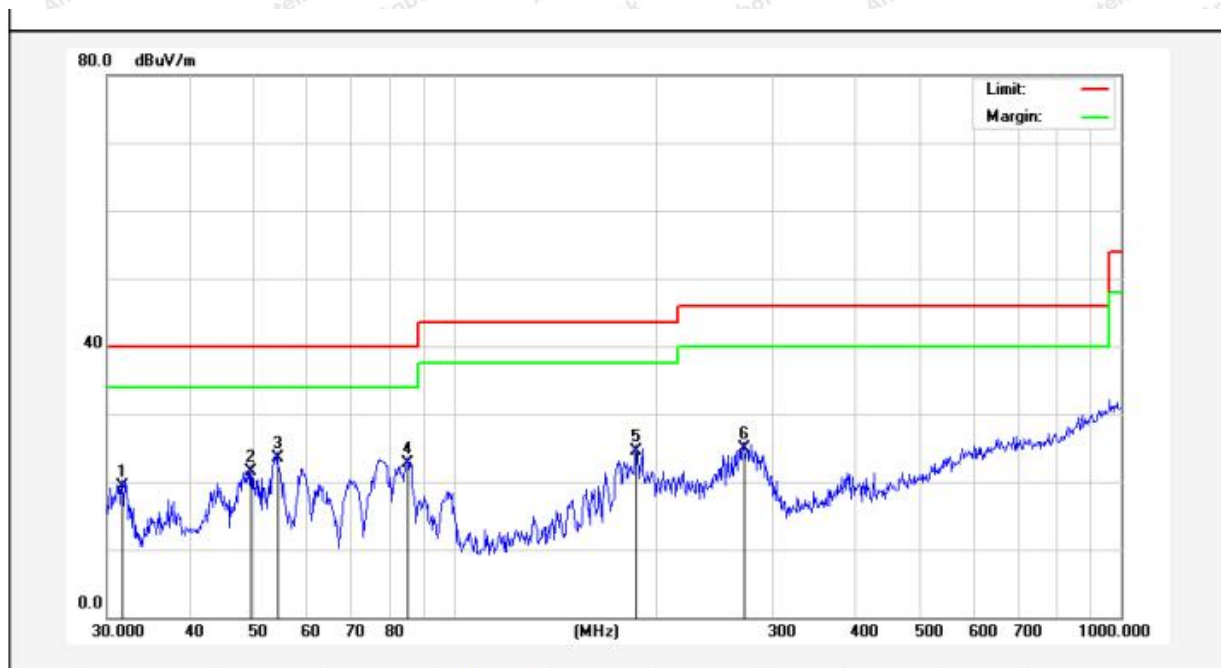
Test Mode: Mode 1
Power Source: DC 3.7V battery inside
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 24.5°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	42.0066	29.44	-14.73	14.71	40.00	-25.29	QP	100	360	
2	54.8348	34.18	-16.47	17.71	40.00	-22.29	QP	100	0	
3	98.4866	40.22	-19.52	20.70	43.50	-22.80	QP	100	360	
4	175.6516	48.68	-21.03	27.65	43.50	-15.85	QP	100	0	
5	285.9778	45.89	-15.57	30.32	46.00	-15.68	QP	100	360	
6	584.7895	32.57	-7.14	25.43	46.00	-20.57	QP	100	0	

Test Results (30~1000MHz)

Test Mode: Mode 1
Power Source: DC 3.7V battery inside
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 24.5°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.6202	36.17	-16.90	19.27	40.00	-20.73	QP	100	360	
2	49.3594	36.22	-14.76	21.46	40.00	-18.54	QP	100	0	
3	54.0711	39.62	-16.21	23.41	40.00	-16.59	QP	100	360	
4	84.9995	39.54	-16.83	22.71	40.00	-17.29	QP	100	0	
5	187.0958	42.42	-17.88	24.54	43.50	-18.96	QP	100	360	
6	271.3246	39.41	-14.48	24.93	46.00	-21.07	QP	100	0	

Test Results (Fundamental)

Mode	Freq. (MHz)	Antenna Pol.	Readin (dBuV/m)	Cable Loss (dB)	Ant Factor (dB)	Amplifier (dB)	Duty cycle Factor (dB)	Results (dBuV/m)	Limits (dBuV/m)	Det. Mode
TX Mode	433.92	H	98.39	1.52	-12.35	31.45	-	86.04	100.82	PK
	433.92	H	98.39	1.52	-12.35	31.45	-12.65	73.39	80.82	AV
	433.92	V	84.68	1.52	-10.58	31.45	-	74.10	100.82	PK
	433.92	V	84.68	1.52	-10.58	31.45	-12.65	61.45	80.82	AV

Remark:

1. Result = Reading + Cable Loss +Ant Factor –Amplifier + Duty cycle Factor
2. Pulse Desensitization Correction Factor

Mode	Freq. (MHz)	Pulse Width (ms)	2/Pulse Width (kHz)
TX Mode	433.92	23.3	0.0858

RBW(1000kHz)> 2/Pulse Width

Therefore PDCF is not needed.

3. AV=PEAK +Duty Cycle Factor

4. Duty Cycle Factor

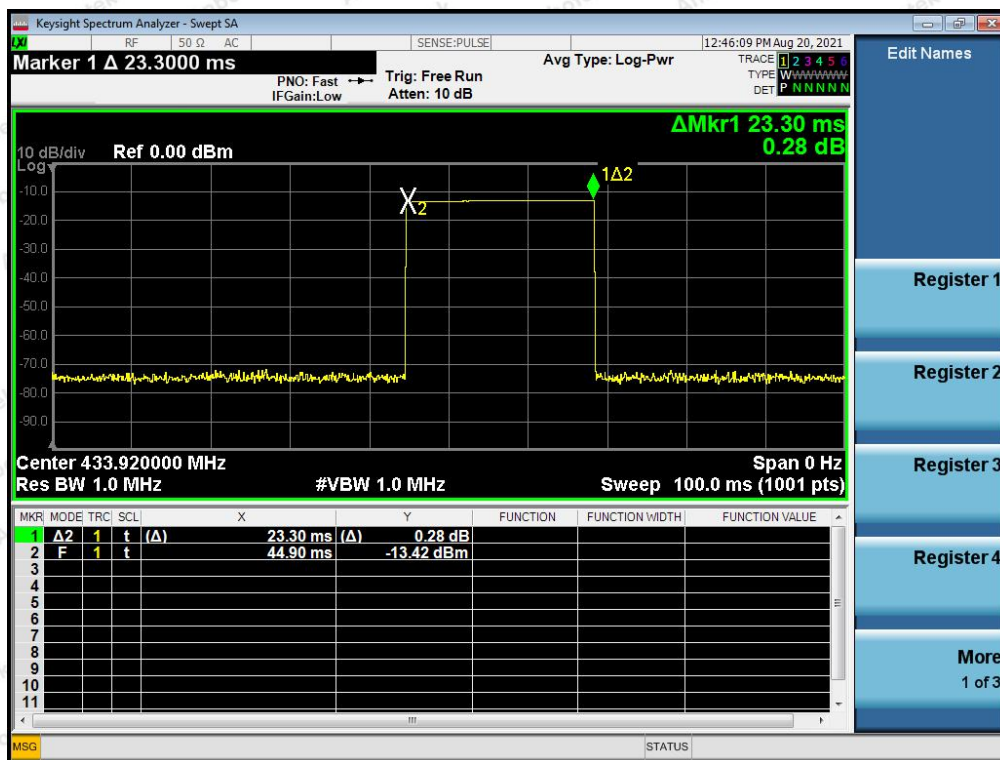
Mode	Freq. (MHz)	T on (ms)	T period (ms)	Duty Cycle	Duty Cycle Factor
TX Mode	433.92	23.3	100	23.3%	-12.65

T on=T on

Duty Cycle=T on/T period

Duty Cycle Factor =20*Ig(Duty Cycle)

T on



Test Results (Harmonics Emissions+Radiated Emissions from 1G-4G)

433.92MHz

Frequency	Antenna	Reading	Factor	Duty cycle Factor	Results	Limits	Det
(MHz)	Pol.	(dBuV/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Mode
867.84	H	52.62	-2.61	-	50.01	80.82	PK
867.84	H	52.62	-2.61	-12.65	37.36	60.82	AV
867.84	V	47.12	-2.61	-	44.51	80.82	PK
867.84	V	47.12	-2.61	-12.65	31.86	60.82	AV
1301.76	H	39.28	4.24	-	43.52	74	PK
1301.76	H	39.28	4.24	-12.65	30.87	54	AV
1301.76	V	39.05	4.24	-	43.29	74	PK
1301.76	V	39.05	4.24	-12.65	30.64	54	AV

Remark:

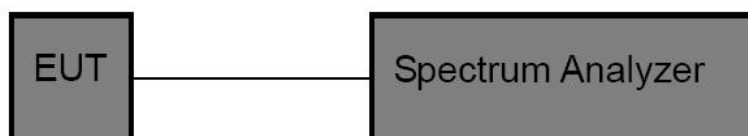
1. Result = Reading + Factor+ Duty cycle Factor

5. 20DB Occupy Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.231 (c)				
Test Limit	According to FCC Part 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. For devices operating above 900MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20dB down from the modulated carrier. So the emission bandwidth limits have been calculated in below table: <table><tr><th>Fundamental Frequency</th><th>Limit of 20dB Bandwidth</th></tr><tr><td>433.92 MHz</td><td>$433920 \times 0.0025 = 1084.80 \text{ kHz}$</td></tr></table>	Fundamental Frequency	Limit of 20dB Bandwidth	433.92 MHz	$433920 \times 0.0025 = 1084.80 \text{ kHz}$
Fundamental Frequency	Limit of 20dB Bandwidth				
433.92 MHz	$433920 \times 0.0025 = 1084.80 \text{ kHz}$				

5.2. Test Setup



5.3. Test Procedure

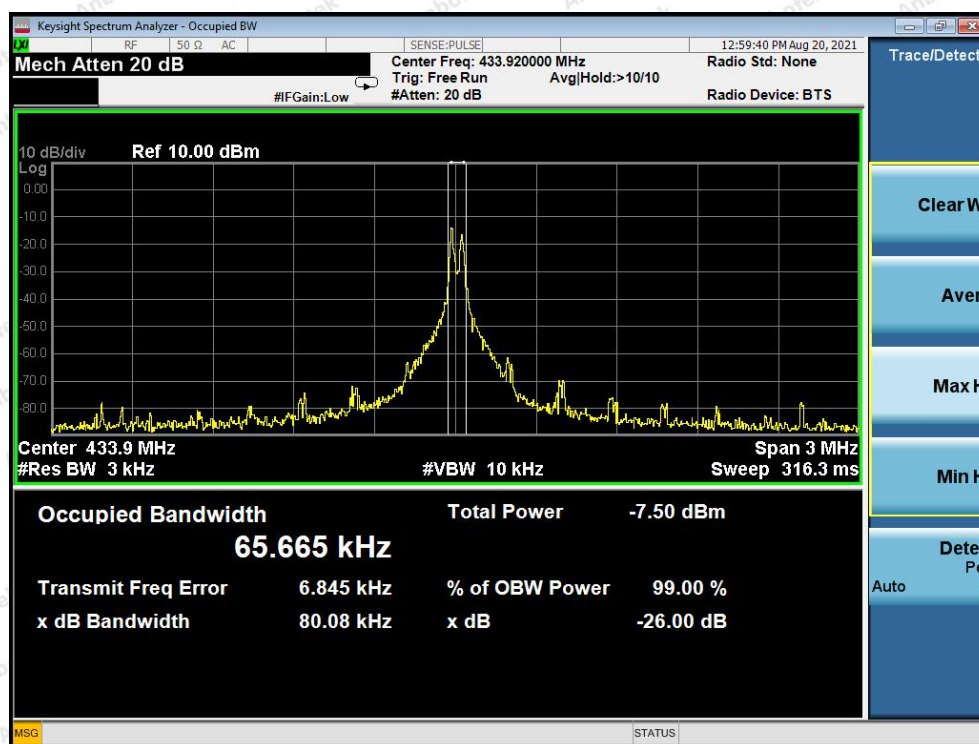
1. Place the EUT on the table and set it in the continuously transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
RBW = 10kHz, VBW $\geq$ 3*RBW =30kHz,
Span= 500KHz
Detector= Peak
Trace 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

Test Item : 20dB Bandwidth
 Test Voltage : DC 3.7V battery inside
 Test Result : PASS

Test Mode : Continuously transmitting
 Temperature : 23.6℃
 Humidity : 54%RH

Freq. (MHz)	Modulation Type	Bandwidth (kHz)	Limit (kHz)	Results
433.92	ASK	80.08	<1084.80	PASS



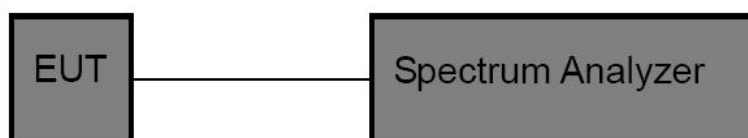
433.92MHz

6. Dwell Time Test

6.1. Test Standard and Limit

Test Standard	FCC Part 15.231(a)(1)
Test Limit	According to FCC Part 15.231(a)(1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released

6.2. Test Setup



6.3. Test Procedure

1. Place the EUT on the table and set it in continuously transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as
RBW=1000kHz, VBW= 1000 kHz, Span= 0Hz, Sweep Time= 20 Seconds.
3. Record the Delta mark time.

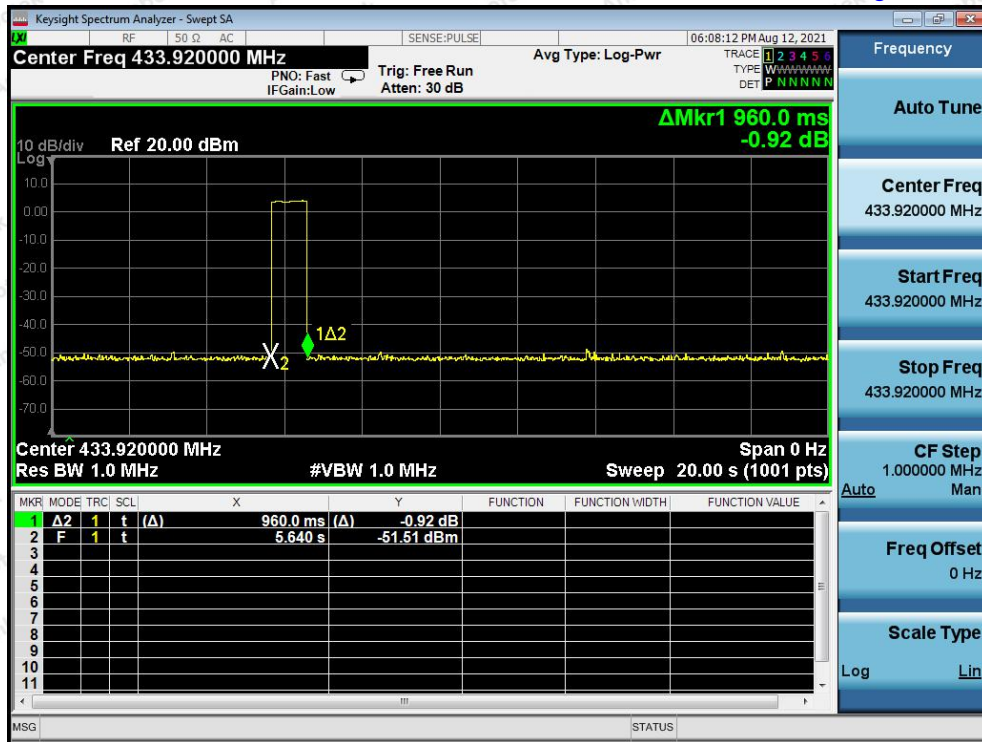
6.4. Test Data

Test Item	: Dwell Time
Test Voltage	: DC 3.7V battery inside
Test Result	: PASS

Test Mode	: Continuously transmitting
Temperature	: 23.6℃
Humidity	: 54%RH

Test Mode	Transmitting time(s)	Limit(s)	Result
ASK mode	0.960	≤5	PASS

Please refer the following plot.



Dwell Time



7. Antenna Requirement

7.1. 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. Antenna requirement must meet at least one of the following: 1) Antenna must be permanently attached to device. 2) The antenna must use a unique type of connector to attach to the device. 3) Device must be professionally installed. The installer shall be responsible for ensuring that the correct antenna is employed by the device.

7.2. Antenna Connected Construction

The antenna is a Spring antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files for External Photos of the EUT.

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files for Internal Photos of the EUT.

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

