

FCC Test Report

Applicant : Shenzhen Runyunteng Technology Co., Ltd

Address : 712, No. 23, North District, Fuquan Xincun, Helian Community, Longhua Street, Longhua District, Shenzhen, China

Product Name : Night Light Wireless Charging Station

Report Date : Jul. 09, 2024



Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited

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Code: AB-RF-05-b

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Contents

1. General Information	5
1.1. Client Information	5
1.2. Description of Device (EUT)	5
1.3. Auxiliary Equipment Used During Test	6
1.4. Description of Test Modes	6
1.5. Description Of Test Setup	7
1.6. Test Equipment List	8
1.7. Measurement Uncertainty	9
1.8. Description of Test Facility	9
1.9. Disclaimer	9
2. Summary of Test Results	10
3. Conducted Emission Test	11
3.1. Test Standard and Limit	11
3.2. Test Setup	11
3.3. Test Procedure	11
3.4. Test Data	11
4. Radiation Spurious Emission	14
4.1. Test Standard and Limit	14
4.2. Test Setup	14
4.3. Test Procedure	15
4.4. Test Data	15
5. Antenna Requirement	20
5.1. Test Standard and Requirement	20
5.2. Antenna Connected Construction	20
APPENDIX I -- TEST SETUP PHOTOGRAPH	21
APPENDIX II -- EXTERNAL PHOTOGRAPH	21
APPENDIX III -- INTERNAL PHOTOGRAPH	21



Report No.: 182512C400172101

FCC ID: 2BAY8-RYT010

Page 3 of 21

TEST REPORT

Applicant : Shenzhen Runyunteng Technology Co., Ltd
Manufacturer : Shenzhen Runyunteng Technology Co., Ltd
Product Name : Night Light Wireless Charging Station
Model No. : RYT010, THL010, BezosMax-1, S1
Trade Mark : BezosMax/BezosMax i/acer
Wireless1 output: 5W/7.5W/10W/15W
Wireless2 output: 5W/7.5W/10W/15W
Wireless3 output: 5W
Wireless4 output: 3W
Rating(s) : Total wireless output: 30W
Type-C Input: 5V== 3A/9V== 3.3A/12V== 2.5A
Type-C Output: 5V== 2A
USB-A Output: 5V== 2A
Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.209
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 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

Jun. 11, 2024

Date of Test

Jun. 12, 2024 to Jun. 26, 2024

Prepared By

(TuTu Hong)

Approved & Authorized Signer

(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited

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Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Jul. 09, 2024



Report No.: 182512C400172101

FCC ID: 2BAY8-RYT010

Page 5 of 21

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Runyunteng Technology Co., Ltd
Address	:	712, No. 23, North District, Fuquan Xincun, Helian Community, Longhua Street, Longhua District, Shenzhen, China
Manufacturer	:	Shenzhen Runyunteng Technology Co., Ltd
Address	:	712, No. 23, North District, Fuquan Xincun, Helian Community, Longhua Street, Longhua District, Shenzhen, China
Factory	:	Shenzhen Runyunteng Technology Co., Ltd
Address	:	712, No. 23, North District, Fuquan Xincun, Helian Community, Longhua Street, Longhua District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Night Light Wireless Charging Station
Model No.	:	RYT010, THL010, BezosMax-1, S1 (Note: All samples are the same except the model number and appearance color, so we prepare "RYT010" for test only.)
Trade Mark	:	BezosMax/BezosMax i/acer
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample)
Adapter	:	N/A

RF Specification

Operation Frequency	:	Wireless 1/2/3: 115-205kHz Wireless 4: 325kHz
Modulation Type	:	ASK
Antenna Type	:	Inductive loop coil Antenna

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

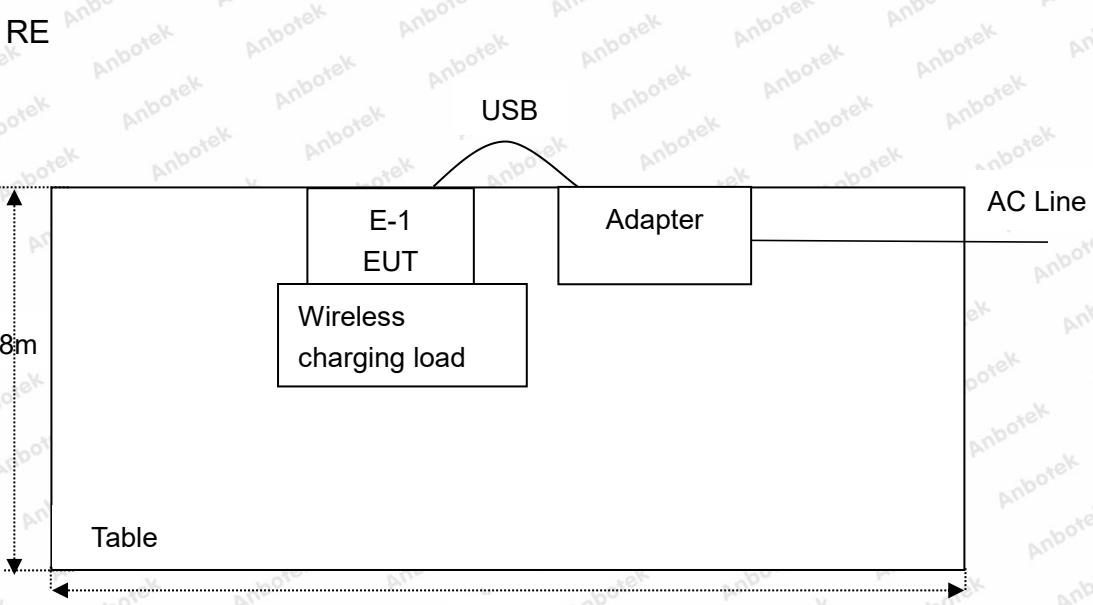
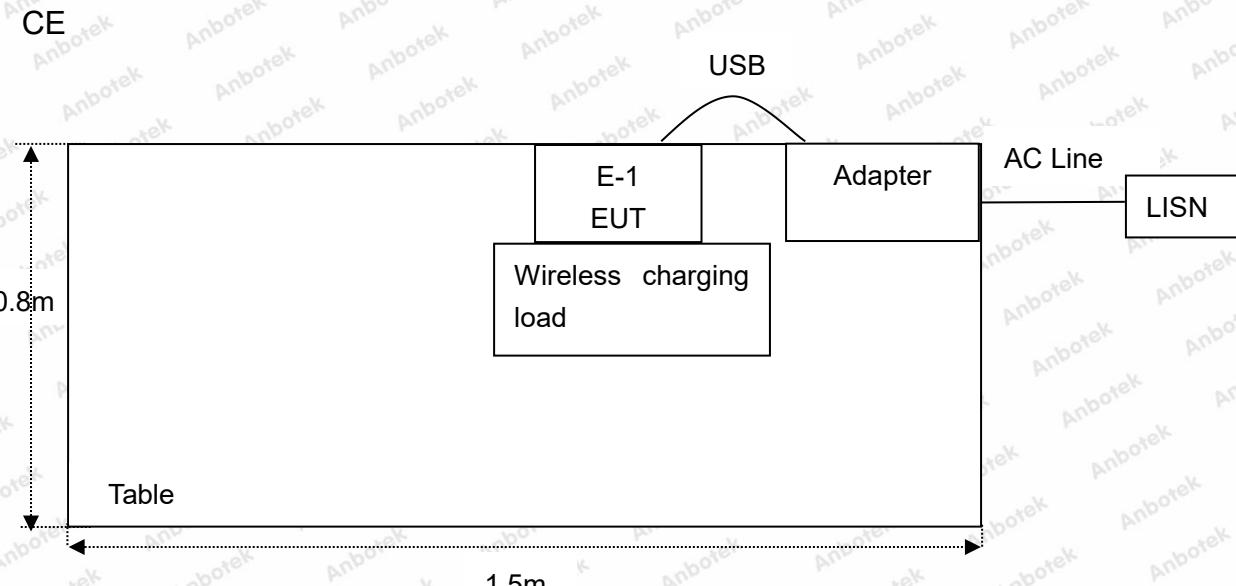
Title	Manufacturer	Model No.	Serial No.
Apple Phone	Apple	iPhone 12	DNPDJC7T0DYF
Apple Watch	Apple	/	/
Apple AirPods	Apple	AirPods Pro	/
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J

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 Modes	Descriptions
TM1	WTP Mode (3W 1% Load)
TM2	WTP Mode (3W 50% Load)
TM3	WTP Mode (3W 99% Load)
TM4	WTP Mode (5W 1% Load)
TM5	WTP Mode (5W 50% Load)
TM6	WTP Mode (5W 99% Load)
TM7	WTP Mode (7.5W 1% Load)
TM8	WTP Mode (7.5W 50% Load)
TM9	WTP Mode (7.5W 99% Load)
TM10	WTP Mode (10W 1% Load)
TM11	WTP Mode (10W 50% Load)
TM12	WTP Mode (10W 99% Load)
TM13	WTP Mode (15W 1% Load)
TM14	WTP Mode (15W 50% Load)
TM15	WTP Mode (15W 99% Load)
TM16	WTP Mode (Phone1 15W+Phone2 15W+Earbuds 5W+Watch 3W 1% Load)
TM17	WTP Mode (Phone1 15W+Phone2 15W+Earbuds 5W+Watch 3W 50% Load)
TM18	WTP Mode (Phone1 15W+Phone2 15W+Earbuds 5W+Watch 3W 99% Load)
TM19	Standby Mode



1.5. Description Of Test Setup

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	Jan. 18, 2024	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	Jan. 17, 2024	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jan. 17, 2024	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 23, 2024	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	Jan. 17, 2024	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	Schwarzbeck	FMZB1519B	00053	Oct. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 12, 2023	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Jan. 17, 2024	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 16, 2023	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)	3.8dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
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.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, 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.

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2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission Test	PASS
15.205/15.209	Spurious Emission	PASS



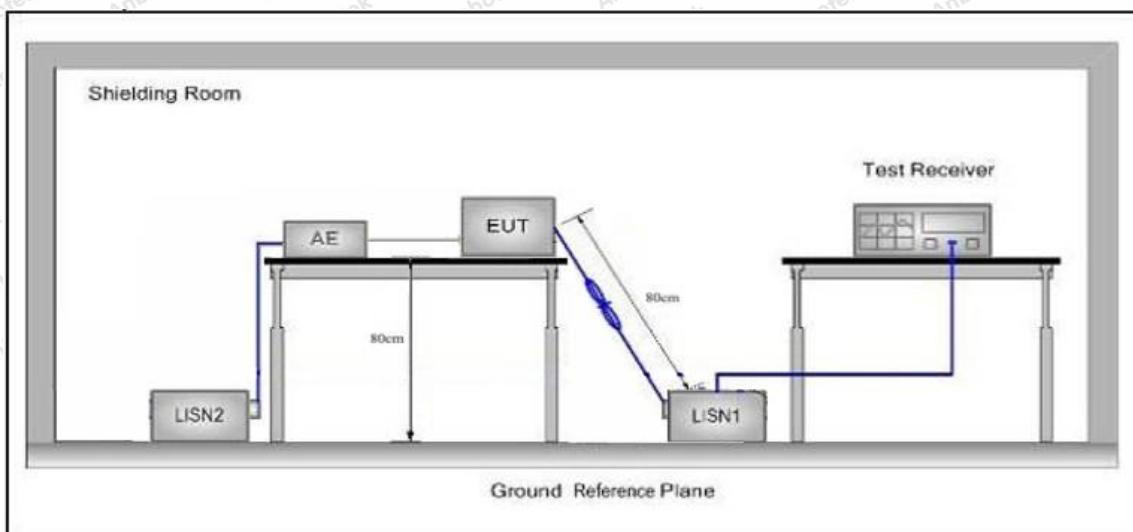
3. Conducted Emission Test

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: 2020 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

PASS

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

Please to see the following pages.



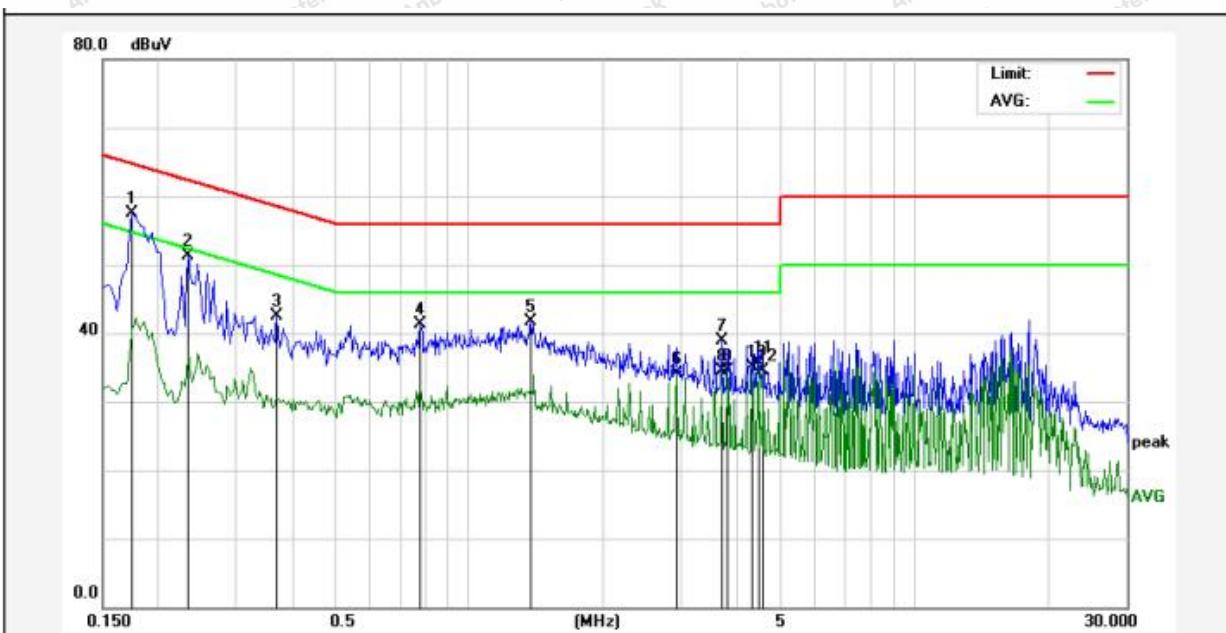
Report No.: 182512C400172101

FCC ID: 2BAY8-RYT010

Page 12 of 21

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: TM16
 Test Specification: AC 120V/60Hz for Adapter
 Comment: Live Line
 Temp.(°C)/Hum.(%RH): 23.5°C/57%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1740	39.61	17.83	57.44	64.76	-7.32	QP	
2	0.2340	33.47	17.82	51.29	62.30	-11.01	QP	
3	0.3700	24.69	17.82	42.51	58.50	-15.99	QP	
4	0.7780	23.52	17.87	41.39	56.00	-14.61	QP	
5	1.3740	23.80	17.86	41.66	56.00	-14.34	QP	
6	2.9300	16.17	17.85	34.02	46.00	-11.98	AVG	
7	3.6940	21.10	17.86	38.96	56.00	-17.04	QP	
8	3.6940	16.67	17.86	34.53	46.00	-11.47	AVG	
9	3.8180	16.62	17.86	34.48	46.00	-11.52	AVG	
10	4.3340	17.31	17.85	35.16	46.00	-10.84	AVG	
11	4.4620	17.91	17.85	35.76	46.00	-10.24	AVG	
12	4.5900	16.64	17.86	34.50	46.00	-11.50	AVG	



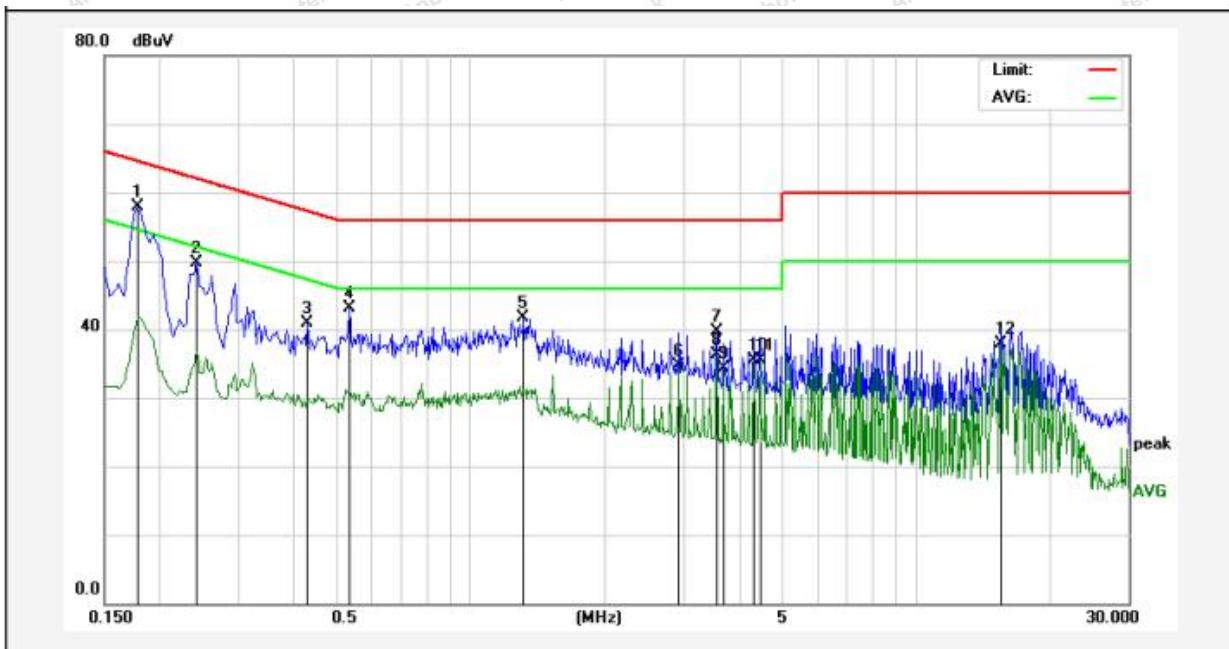
Report No.: 182512C400172101

FCC ID: 2BAY8-RYT010

Page 13 of 21

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: TM16
 Test Specification: AC 120V/60Hz for Adapter
 Comment: Neutral Line
 Temp.(°C)/Hum.(%RH): 23.5°C/57%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1780	40.14	17.82	57.96	64.57	-6.61	QP	
2	0.2420	31.92	17.82	49.74	62.02	-12.28	QP	
3	0.4300	23.14	17.82	40.96	57.25	-16.29	QP	
4	0.5340	25.19	17.86	43.05	56.00	-12.95	QP	
5	1.3140	23.87	17.86	41.73	56.00	-14.27	QP	
6	2.9340	16.82	17.85	34.67	46.00	-11.33	AVG	
7	3.5660	21.90	17.86	39.76	56.00	-16.24	QP	
8	3.5660	18.45	17.86	36.31	46.00	-9.69	AVG	
9	3.6940	16.52	17.86	34.38	46.00	-11.62	AVG	
10	4.3300	17.63	17.85	35.48	46.00	-10.52	AVG	
11	4.4580	17.72	17.85	35.57	46.00	-10.43	AVG	
12	15.5460	19.70	18.16	37.86	50.00	-12.14	AVG	



4. Radiation Spurious Emission

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.

4.2. Test Setup

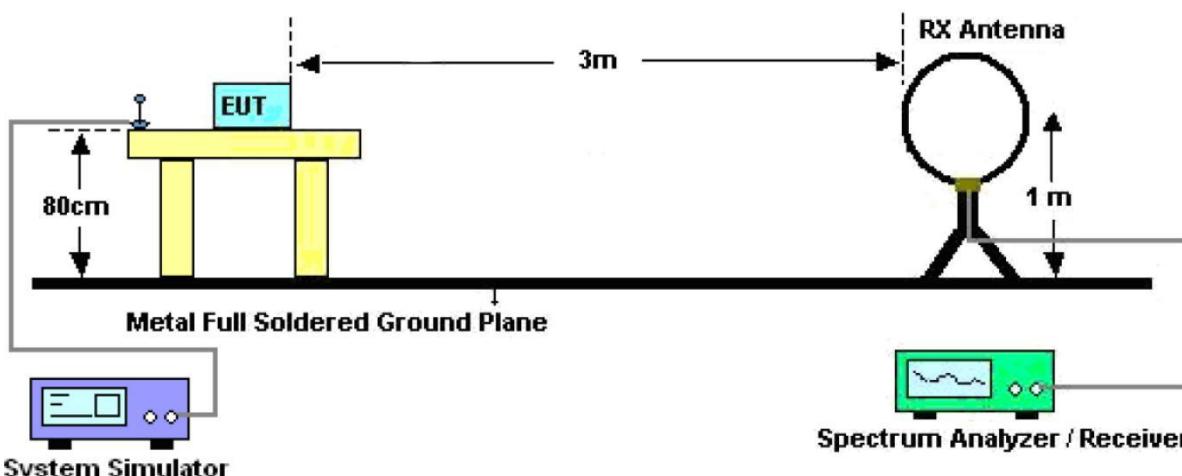


Figure 1. Below 30MHz



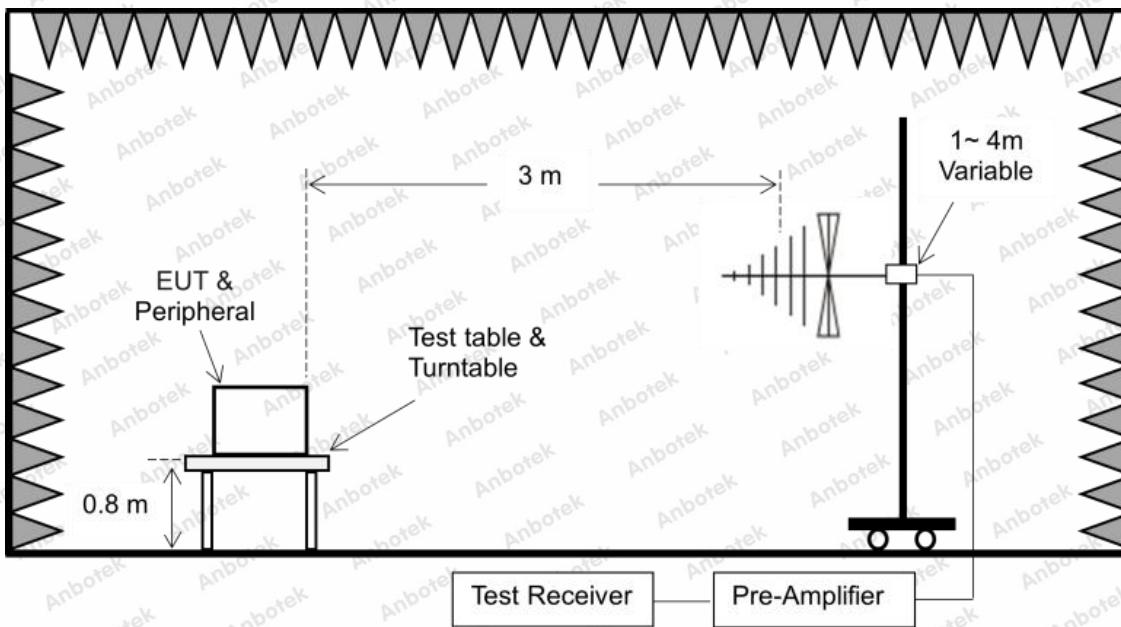


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

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

4.4. Test Data

PASS

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

Please to see the following pages.



Report No.: 182512C400172101

FCC ID: 2BAY8-RYT010

Page 16 of 21

Test Results (Between 9KHz – 150KHz)

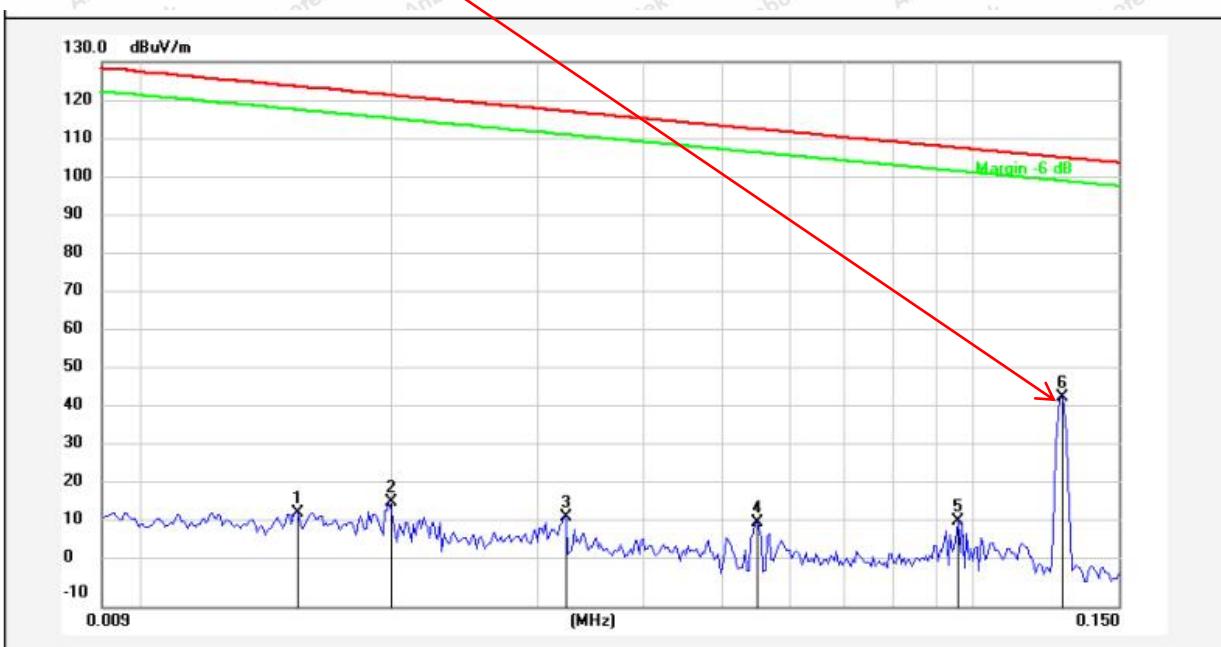
Test Mode: TM16

Distance: 3m

Power Source: AC 120V/60Hz for Adapter

Temp.(°C)/Hum.(%RH): 23.5°C/49%RH

Fundamental



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector			
1	0.0154	-6.14	20.29	14.15	123.67	-109.52	QP			
2	0.0200	-3.64	20.29	16.65	121.41	-104.76	QP			
3	0.0323	-7.69	20.56	12.87	117.27	-104.40	QP			
4	0.0548	-8.67	20.35	11.68	112.71	-101.03	QP			
5	0.0961	-8.50	20.29	11.79	107.86	-96.07	QP			
6	0.1281	23.24	20.34	43.58	105.38	-61.80	QP			



Report No.: 182512C400172101

FCC ID: 2BAY8-RYT010

Page 17 of 21

Test Results (Between 0.15MHz – 30MHz)

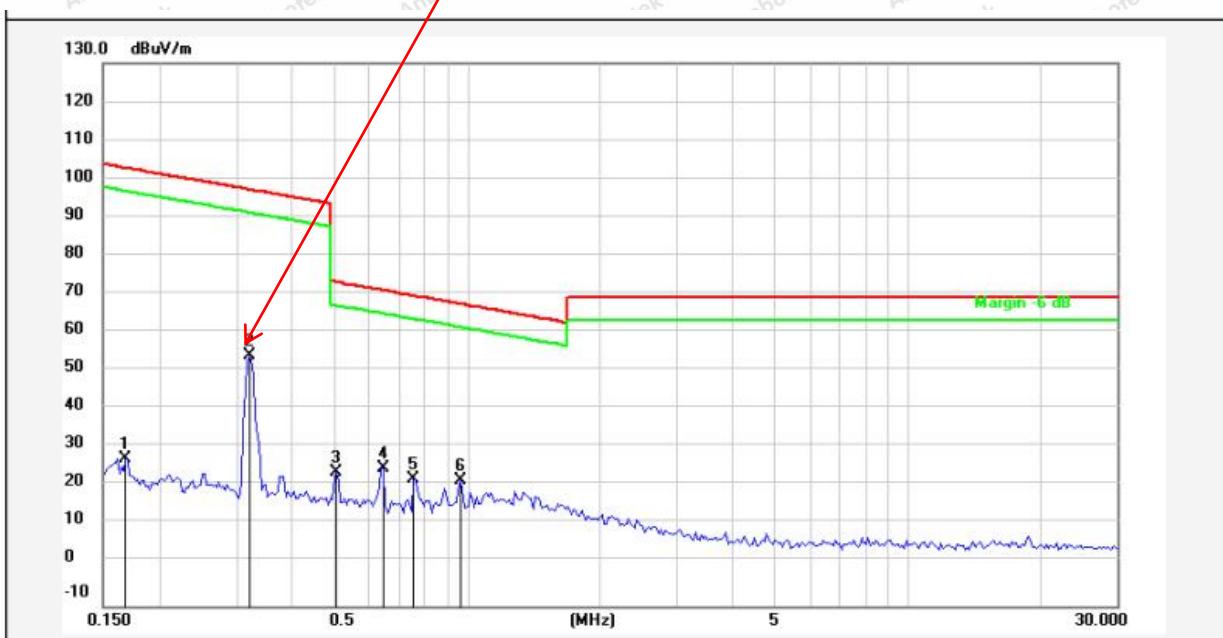
Test Mode: TM16

Distance: 3m

Power Source: AC 120V/60Hz for Adapter

Temp.(°C)/Hum.(%RH): 23.5°C/49%RH

Fundamental



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector			
1	0.1685	7.66	20.32	27.98	103.01	-75.03	QP			
2	0.3215	34.26	20.29	54.55	97.44	-42.89	QP			
3	0.5073	4.19	20.27	24.46	73.50	-49.04	QP			
4	0.6473	5.38	20.27	25.65	71.39	-45.74	QP			
5	0.7589	2.54	20.25	22.79	70.01	-47.22	QP			
6	0.9684	2.08	20.26	22.34	67.90	-45.56	QP			

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.



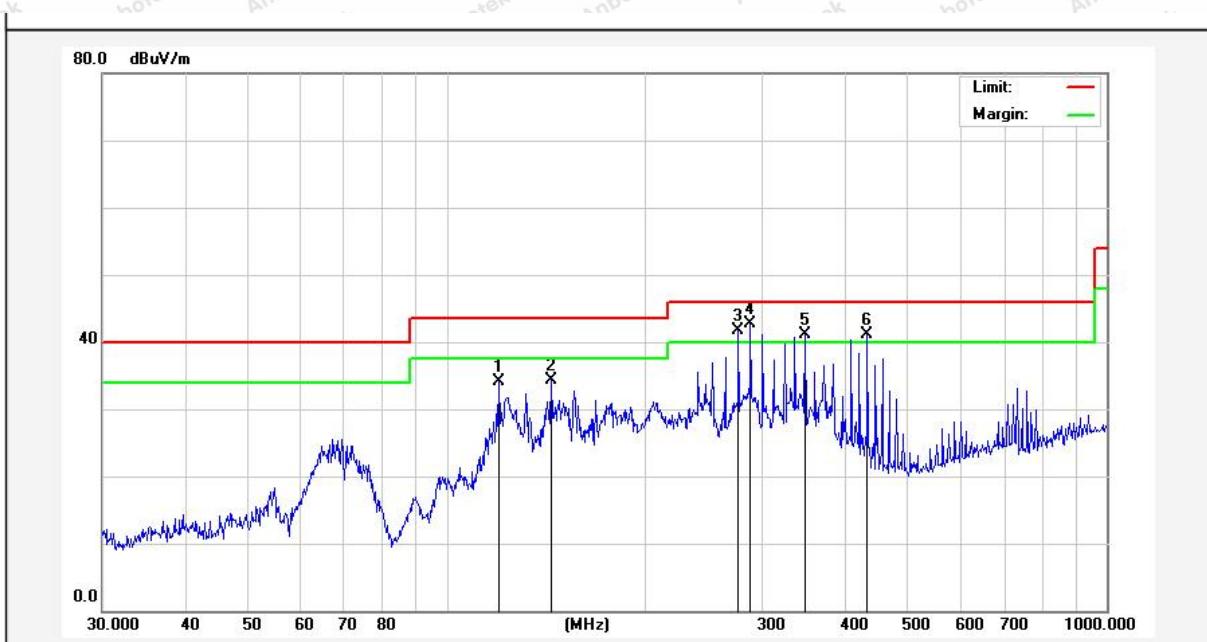
Report No.: 182512C400172101

FCC ID: 2BAY8-RYT010

Page 18 of 21

Test Results (Between 30MHz -1000 MHz)

Test Mode: TM16
 Distance: 3m
 Power Source: AC 120V/60Hz for Adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector			
1	119.8556	54.90	-20.88	34.02	43.50	-9.48	QP			
2	143.8295	56.80	-22.53	34.27	43.50	-9.23	QP			
3	276.1235	58.73	-17.08	41.65	46.00	-4.35	QP			
4	287.9904	59.53	-16.80	42.73	46.00	-3.27	QP			
5	348.0274	55.75	-14.73	41.02	46.00	-4.98	QP			
6	432.5457	54.69	-13.51	41.18	46.00	-4.82	QP			

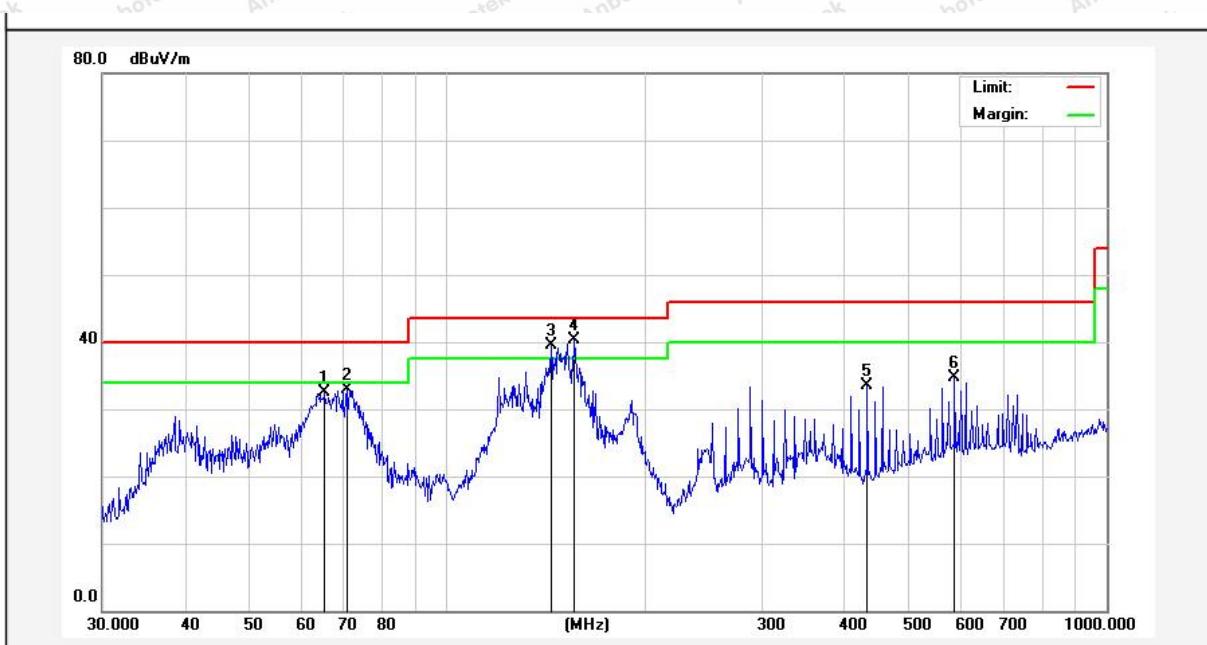


Report No.: 182512C400172101

FCC ID: 2BAY8-RYT010

Page 19 of 21

Test Mode: TM16
Distance: 3m
Power Source: AC 120V/60Hz for Adapter
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector			
1	65.1145	53.73	-21.30	32.43	40.00	-7.57	QP			
2	70.5836	56.28	-23.42	32.86	40.00	-7.14	QP			
3	143.8295	62.10	-22.53	39.57	43.50	-3.93	QP			
4	155.9101	62.72	-22.37	40.35	43.50	-3.15	QP			
5	432.5457	47.01	-13.51	33.50	46.00	-12.50	QP			
6	588.9051	44.75	-10.03	34.72	46.00	-11.28	QP			



5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	<p>1) 15.203 requirement:</p> <p>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.</p>

5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached. It complies with the standard requirement.



Report No.: 182512C400172101

FCC ID: 2BAY8-RYT010

Page 21 of 21

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 -----

