



## Shenzhen Huaxia Testing Technology Co., Ltd.

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# Test Report

**Report No.:** CQASZ20220801505E-02

**Applicant:** Shanghai Actto Plastics Co., Ltd.

**Address of Applicant:** 1F 18B/L, Fashion Valley Creative Park, 618-1, Dingyuan Rd., Songjiang, Shanghai City, China

### Equipment Under Test (EUT):

**EUT Name:** Actto Wireless B/T Dual Mouse

**Model No.:** ABTM-01, ABTM-03, ABTM-05

**Test Model No.:** ABTM-01

**Brand Name:** ACTTO

**FCC ID:** 2A3GJ-ABTM-01

**Standards:** 47 CFR Part 15, Subpart C

**Date of Receipt:** 2022-08-30

**Date of Test:** 2022-08-30 to 2022-09-09

**Date of Issue:** 2022-09-22

**Test Result:** PASS\*

\*In the configuration tested, the EUT complied with the standards specified above

**Tested By:**

*lewis zhou*  
( Lewis Zhou )

**Reviewed By:**

*Timo Lei*  
( Timo Lei )

**Approved By:**

*Jack Ai*  
( Jack Ai )





Shenzhen Huaxia Testing Technology Co., Ltd.

Report No.:CQASZ20220801505E-02

## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220801505E-02	Rev.01	Initial report	2022-09-22

## 2 Test Summary

Test Item	Test Requirement	Test method	Result
<b>Antenna Requirement</b>	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2013)	PASS
<b>AC Power Line Conducted Emission</b>	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	N/A
<b>Field Strength of the Fundamental Signal</b>	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013)	PASS
<b>Spurious Emissions</b>	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2013)	PASS
<b>Restricted bands around fundamental frequency (Radiated Emission)</b>	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	ANSI C63.10 (2013)	PASS
<b>20dB Occupied Bandwidth</b>	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2013)	PASS

Note:

The EUT is powered by a dry battery

### 3 Contents

	Page
<b>1 VERSION .....</b>	2
<b>2 TEST SUMMARY .....</b>	3
<b>3 CONTENTS .....</b>	4
<b>4 GENERAL INFORMATION .....</b>	5
4.1 CLIENT INFORMATION .....	5
4.2 GENERAL DESCRIPTION OF EUT .....	5
4.3 TEST ENVIRONMENT AND MODE .....	7
4.4 DESCRIPTION OF SUPPORT UNITS .....	7
4.5 STATEMENT OF THE MEASUREMENT UNCERTAINTY .....	8
4.6 TEST LOCATION .....	9
4.7 TEST FACILITY .....	9
4.8 DEVIATION FROM STANDARDS .....	9
4.9 ABNORMALITIES FROM STANDARD CONDITIONS .....	9
4.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER .....	9
4.11 EQUIPMENT LIST .....	10
<b>5 TEST RESULTS AND MEASUREMENT DATA .....</b>	11
5.1 ANTENNA REQUIREMENT .....	11
5.2 RADIATED EMISSION .....	12
5.3 20DB BANDWIDTH .....	20
<b>6 PHOTOGRAPHS .....</b>	23
6.1 RADIATED EMISSION TEST SETUP .....	23
6.2 EUT CONSTRUCTIONAL DETAILS .....	25

## 4 General Information

### 4.1 Client Information

Applicant:	Shanghai Actto Plastics Co., Ltd.
Address of Applicant:	1F 18B/L, Fashion Valley Creative Park, 618-1, Dingyuan Rd., Songjiang, Shanghai City, China
Manufacturer:	Shanghai Actto Plastics Co., Ltd.
Address of Manufacturer:	1F 18B/L, Fashion Valley Creative Park, 618-1, Dingyuan Rd., Songjiang, Shanghai City, China
Factory:	Shanghai Actto Plastics Co., Ltd.
Address of Factory:	1F 18B/L, Fashion Valley Creative Park, 618-1, Dingyuan Rd., Songjiang, Shanghai City, China

### 4.2 General Description of EUT

EUT Name:	Actto Wireless B/T Dual Mouse
Model No.:	ABTM-01, ABTM-03, ABTM-05
Test Model No.:	ABTM-01
Trade Mark:	ACTTO
Software Version:	V1.0
Hardware Version:	V1.0
Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Sample Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	EUT button
Antenna Type:	PCB antenna
Antenna Gain:	-1.52dBi
Power Supply:	Dry cell:AA DC 1.5V battery

Model No.: ABTM-01, ABTM-03, ABTM-05

The circuit design, layout, components used and internal wiring are all the same, except for the color difference.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

### 4.3 Test Environment and Mode

<b>Operating Environment:</b>	
<b>Radiated Emissions:</b>	
Temperature:	27 °C
Humidity:	59 % RH
Atmospheric Pressure:	1009mbar
Temperature:	26 °C
Humidity:	59 % RH
Atmospheric Pressure:	1009mbar
<b>Radio conducted item test (RF Conducted test room):</b>	
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009mbar
<b>Test mode:</b>	
Transmitting mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

### 4.4 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/

## 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for **CQA** laboratory is reported:

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	5.12dB	(1)
Radiated Emission	Above 1GHz	4.60dB	(1)
Conducted Disturbance	0.15~30MHz	3.34dB	(1)

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

## 4.7 Test Facility

- **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen 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.:522263

## 4.8 Deviation from Standards

None.

## 4.9 Abnormalities from Standard Conditions

None.

## 4.10 Other Information Requested by the Customer

None.

## 4.11 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2021/9/10	2022/9/9
Spectrum analyzer	R&S	FSU26	CQA-038	2021/9/10	2022/9/9
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2021/9/10	2022/9/9
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2021/9/10	2022/9/9
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2021/9/16	2024/9/15
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2021/9/10	2022/9/9
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2021/9/10	2022/9/9
Antenna Connector	CQA	RFC-01	CQA-080	2021/9/10	2022/9/9
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2021/9/10	2022/9/9
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2021/9/10	2022/9/9
EMI Test Receiver	R&S	ESPI3	CQA-013	2021/9/10	2022/9/9
LISN	R&S	ENV216	CQA-003	2021/9/10	2022/9/9
Coaxial cable	CQA	N/A	CQA-C009	2021/9/10	2022/9/9

Note:

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.

## 5 Test results and Measurement Data

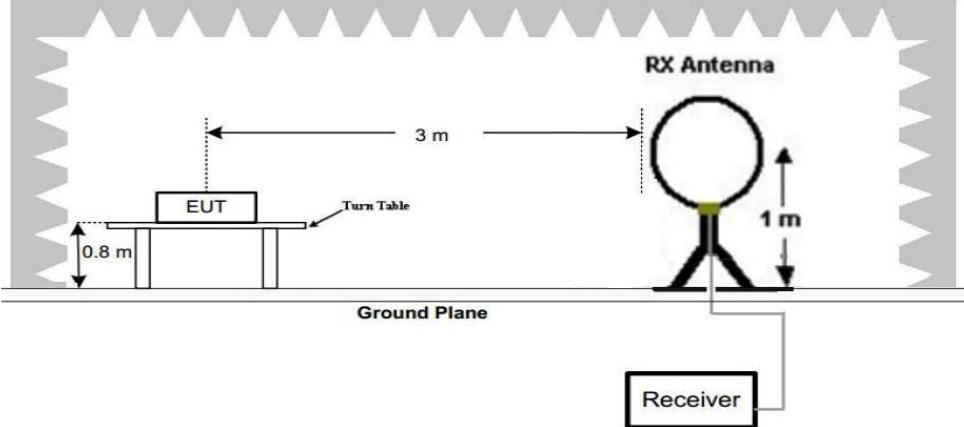
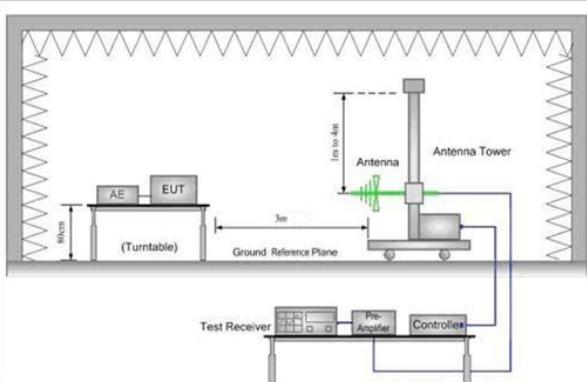
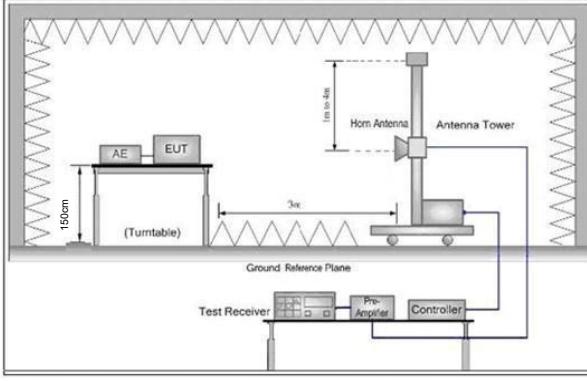
### 5.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203
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.
<b>EUT Antenna:</b>	

The antenna is PCB antenna. The best case gain of the antenna is -1.52dBi.

## 5.2 Radiated Emission

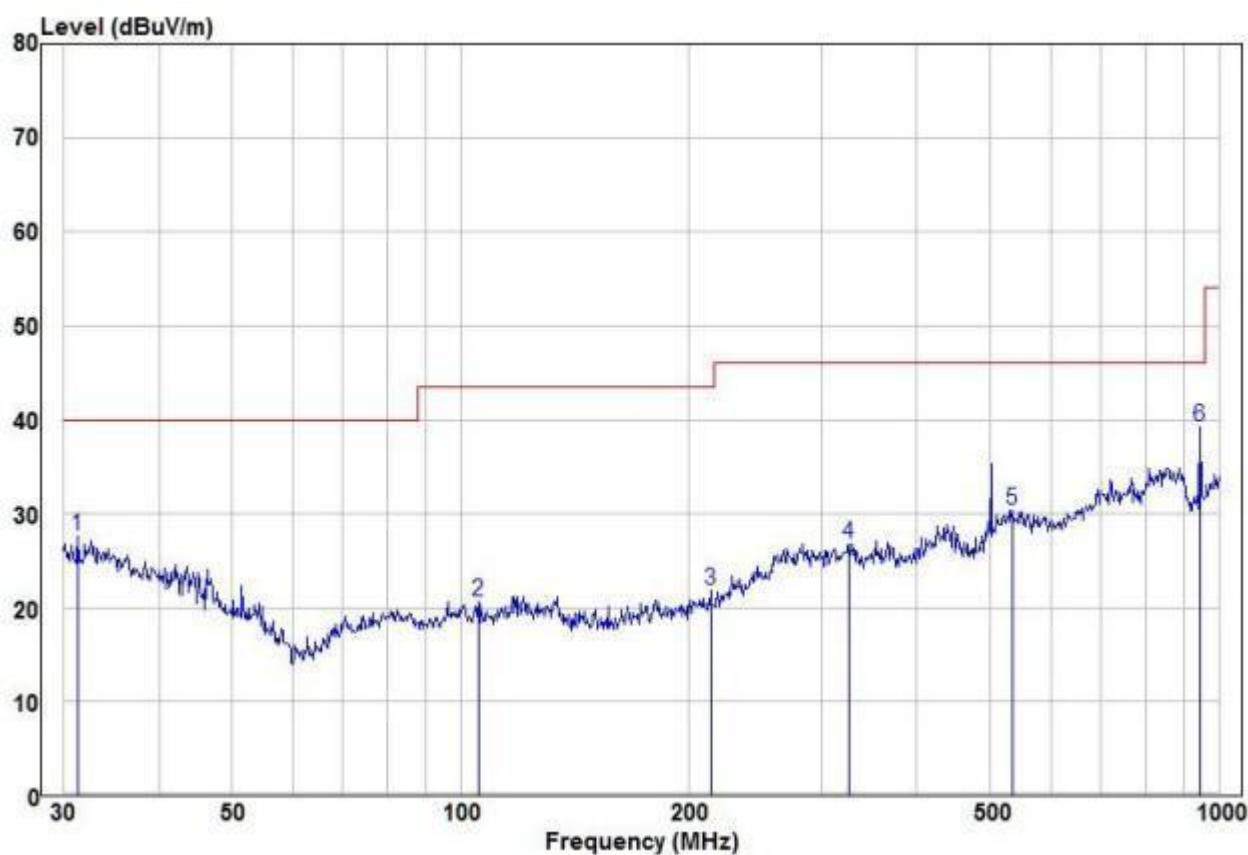
Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Note: For fundamental frequency, RBW=5MHz, VBW=5MHz, Peak detector is for PK value, RMS detector is for Average value.					
Limit: (Spurious Emissions and band edge)	Frequency	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-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 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 Section 15.209, whichever is the lesser attenuation.					
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.0	Average Value		
		114.0	Peak Value		

Test Setup:	
	<p>Figure 1. Below 30MHz</p>  
Test Procedure:	<p>a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.  2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.  Note: 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.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table</p>

	<p>was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <ul style="list-style-type: none"><li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li><li>g. Test the EUT in the lowest channel, the middle channel, the Highest channel</li><li>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li><li>i. Repeat above procedures until all frequencies measured was complete.</li></ul>
Exploratory Test Mode:	Transmitting mode.
Final Test Mode:	For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Results:	Pass

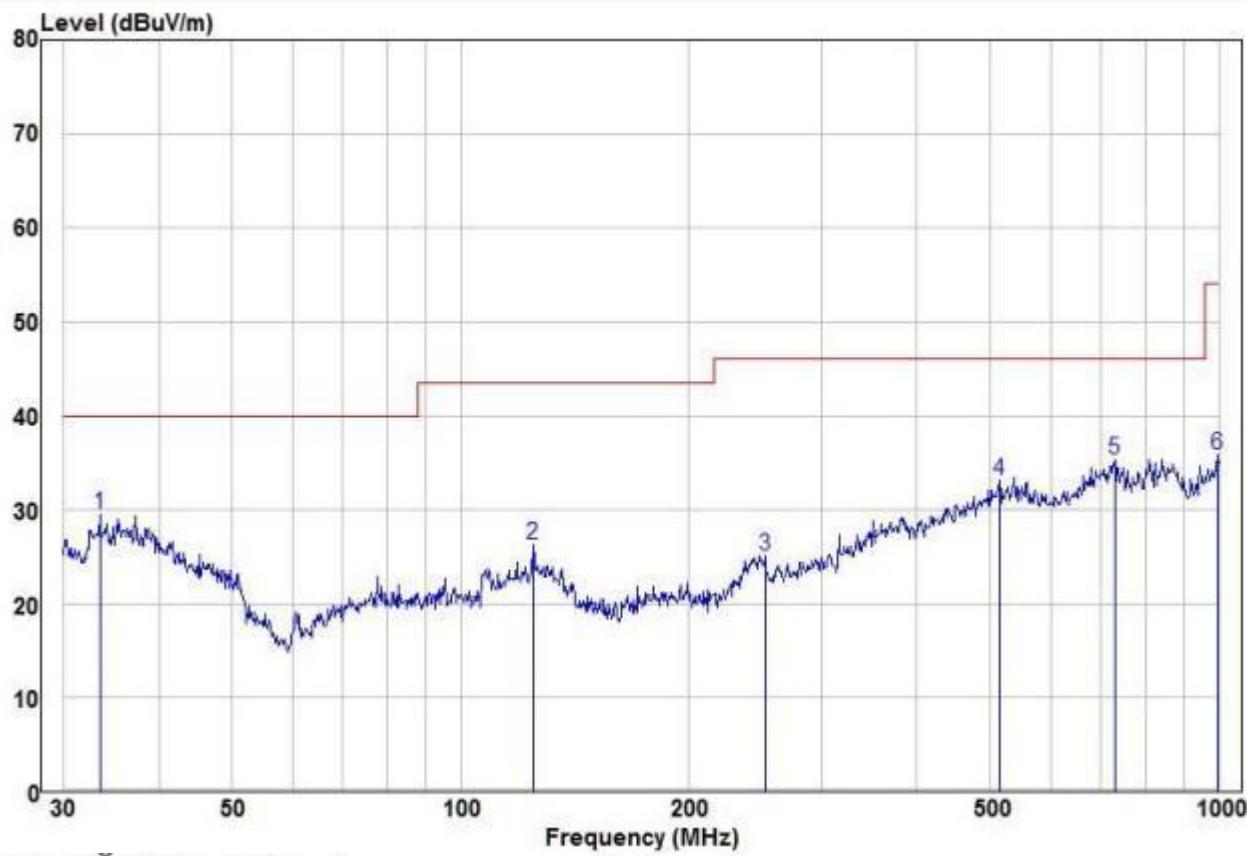
**Measurement Data**
**30MHz~1GHz**

Test mode:	Transmitting	Vertical
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Freq	Read			Limit Line	Over Limit	Remark	Pol/Phase
	MHz	Level	Factor				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	31.29	12.10	15.58	27.68	40.00	-12.32	Peak VERTICAL
2	105.64	10.27	10.38	20.65	43.50	-22.85	Peak VERTICAL
3	213.76	12.84	8.93	21.77	43.50	-21.73	Peak VERTICAL
4	325.60	12.35	14.36	26.71	46.00	-19.29	Peak VERTICAL
5	533.83	11.78	18.63	30.41	46.00	-15.59	Peak VERTICAL
6 pp	945.44	15.59	23.62	39.21	46.00	-6.79	Peak VERTICAL

Test mode:	Transmitting	Horizontal
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Freq	Read			Limit		Over	Remark	Pol/Phase
	MHz	dB <sub>UV</sub>	dB/m	dB <sub>UV</sub> /m	dB <sub>UV</sub> /m			
1 pp	33.44	14.54	15.01	29.55	40.00	-10.45	Peak	HORIZONTAL
2	124.57	15.67	10.53	26.20	43.50	-17.30	Peak	HORIZONTAL
3	252.06	13.02	12.14	25.16	46.00	-20.84	Peak	HORIZONTAL
4	513.63	14.63	18.42	33.05	46.00	-12.95	Peak	HORIZONTAL
5	729.36	14.08	21.29	35.37	46.00	-10.63	Peak	HORIZONTAL
6	996.50	10.75	25.05	35.80	54.00	-18.20	Peak	HORIZONTAL

<b>Above 1GHz</b>							
Test mode:		Transmitting		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V
2390	62.49	-9.2	53.29	74	-20.71	Peak	H
2390	45.72	-9.2	36.52	54	-17.48	AVG	H
2400	44.08	<b>-9.39</b>	34.69	74	-39.31	Peak	H
2400	44.15	<b>-9.39</b>	34.76	54	-19.24	AVG	H
2402	100.76	-9.33	91.43	114	-22.57	peak	H
2402	95.92	-9.33	86.59	94	-7.41	AVG	H
4804	55.97	-4.28	51.69	74	-22.31	peak	H
4804	42.42	-4.28	38.14	54	-15.86	AVG	H
7206	51.91	1.13	53.04	74	-20.96	peak	H
7206	38.18	1.13	39.31	54	-14.69	AVG	H
2390	61.32	-9.2	52.12	74	-21.88	peak	V
2390	44.50	-9.2	35.30	54	-18.70	AVG	V
2400	62.22	-9.39	52.83	74	-21.17	peak	V
2400	44.60	-9.39	35.21	54	-18.79	AVG	V
2402	96.17	<b>-9.33</b>	86.84	114	-27.16	peak	V
2402	91.41	-9.33	82.08	94	-11.92	AVG	V
4804	57.52	-4.28	53.24	74	-20.76	peak	V
4804	41.65	-4.28	37.37	54	-16.63	AVG	V
7206	51.13	1.13	52.26	74	-21.74	peak	V
7206	36.87	1.13	38.00	54	-16.00	AVG	V

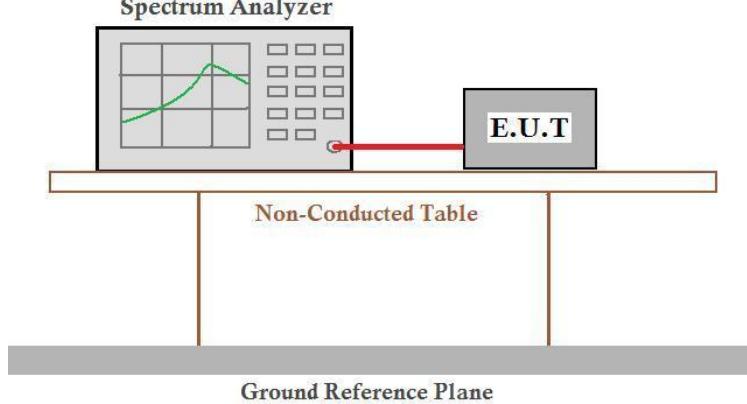
Test mode:		Transmitting		Test channel:		Middle	
Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Over (dB)	Detector Type	Ant. Pol. H/V
2440	99.16	-9.37	89.79	114	-24.21	peak	H
2440	97.95	-9.37	88.58	94	-5.42	AVG	H
4880	56.92	-4.14	52.78	74	-21.22	peak	H
4880	43.61	-4.14	39.47	54	-14.53	AVG	H
7320	51.00	0.56	51.56	74	-22.44	peak	H
7320	36.27	0.56	36.83	54	-17.17	AVG	H
2440	95.93	-9.36	86.57	114	-27.43	peak	V
2440	94.74	-9.36	85.38	94	-8.62	AVG	V
4880	56.38	-4.14	52.24	74	-21.76	peak	V
4880	43.31	-4.14	39.17	54	-14.83	AVG	V
7320	50.72	0.56	51.28	74	-22.72	peak	V
7320	37.72	0.56	38.28	54	-15.72	AVG	V

Test mode:		Transmitting		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V
2480	99.98	-9.23	90.75	114	-23.25	peak	<b>H</b>
2480	96.96	-9.23	87.73	94	-6.27	AVG	<b>H</b>
2483.5	59.99	-9.29	50.70	74	-23.30	Peak	<b>H</b>
2483.5	45.32	-9.29	36.03	54	-17.97	AVG	<b>H</b>
4960	56.59	-4.03	52.56	74	-21.44	peak	<b>H</b>
4960	40.97	-4.03	36.94	54	-17.06	AVG	<b>H</b>
7440	50.99	1.68	52.67	74	-21.33	peak	<b>H</b>
7440	38.02	1.68	39.70	54	-14.30	AVG	<b>H</b>
2480	96.75	-9.23	87.52	114	-26.48	peak	<b>V</b>
2480	94.53	-9.23	85.30	94	-8.70	AVG	<b>V</b>
2483.5	59.93	-9.29	50.64	74	-23.36	peak	<b>V</b>
2483.5	42.73	-9.29	33.44	54	-20.56	AVG	<b>V</b>
4960	56.41	-4.03	52.38	74	-21.62	peak	<b>V</b>
4960	41.39	-4.03	37.36	54	-16.64	AVG	<b>V</b>
7440	51.50	1.68	53.18	74	-20.82	peak	<b>V</b>
7440	36.61	1.68	38.29	54	-15.71	AVG	<b>V</b>

**Remark:**

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 10GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

### 5.3 20dB Bandwidth

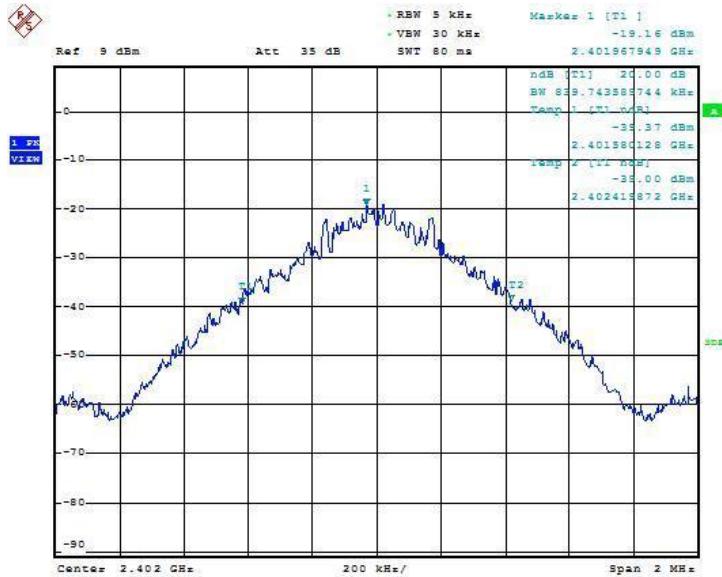
Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2013
Test Setup:	<p style="text-align: center;"><b>Spectrum Analyzer</b></p>  <p style="text-align: center;">Non-Conducted Table</p> <p style="text-align: center;">Ground Reference Plane</p>
Test Mode:	Transmitting with OFDM modulation.
Limit:	N/A
Test Results:	Pass

#### Measurement Data

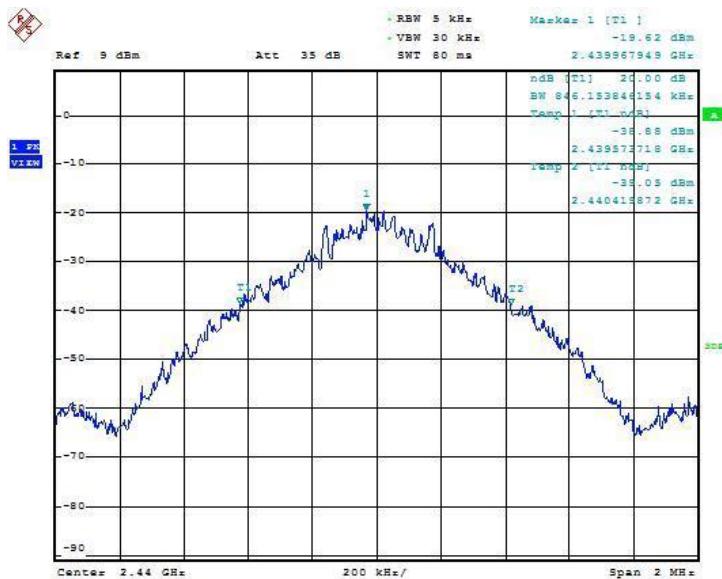
Test channel	20dB bandwidth (MHz)	Results
Lowest	0.839	Pass
Middle	0.846	Pass
Highest	0.839	Pass

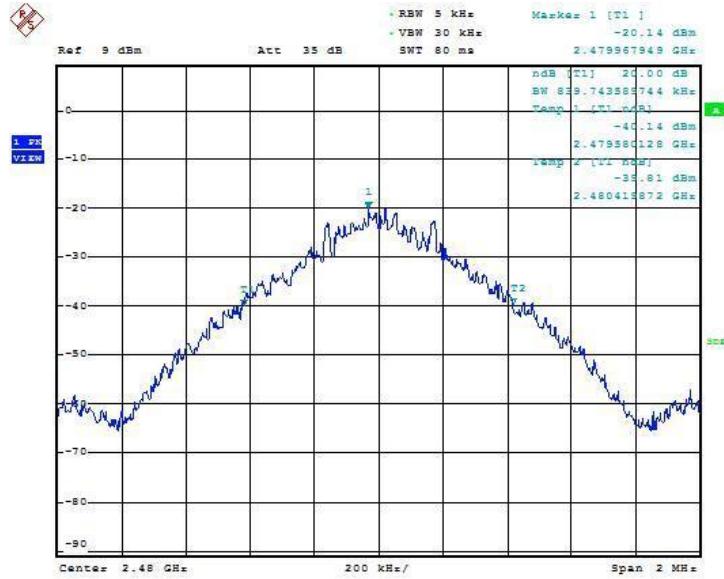
**Test plot as follows:**

Test channel:	Lowest
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Test channel:	Middle
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Test channel: **Highest**

## 6 Photographs

### 6.1 Radiated Emission Test Setup

9kHz~30MHz



30MHz~1GHz:



Above 1GHz:



## **6.2 EUT Constructional Details**

Refer to Photographs - EUT Constructional Details OF EUT for CQASZ20220801505E-01.

**\*\*\* END OF REPORT \*\*\***