

Test Report

No.: AJT220429008E

Applicant Name : SHANTOU HAIBOXING TECHNOLOGY&EDUCATION MODEL CO., LTD.
Applicant Address : GUANGYI ROAD, CHENGHAI DISTRICT, SHANTOU, GUANGDONG, CHINA 515800
Manufacturer : SHANTOU HAIBOXING TECHNOLOGY&EDUCATION MODEL CO., LTD.
Manufacturer Address : GUANGYI ROAD, CHENGHAI DISTRICT, SHANTOU, GUANGDONG, CHINA 515800

The following samples were submitted and identified by/on behalf of the client as:

Sample Description : RADIO CONTROLLED BOAT
Model No. : X03
Additional Model : X03A, X05, X05A, X06, X06A, X07, X07A, X08, X08A, X09, X09A, X10, X10A, X11, X11A, X12, X12A, X13, X13A, X15, X15A, X16, X16A, X17, X17A, X18, X18A, X19, X19A, X20, X20A, X21, X21A
Sample Received Date : 29 Apr, 2022
Testing Completed Date : 20 June, 2022

Tests conducted: For compliance with application, refer to attached page(s) for details.

Assess standard used:	Conclusion
FCC Part 15, Subpart C, Section 15.249 & ANSI C63,10-2013	PASS

Tested by:

Glory

Reviewed by:

Fly Liang

Approved by:

Position: Technical Supervisor

Date: 2022-06-23



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Tel: 86-754-85860999 Fax: 86-754-86984098 Website: www.ajtesting.com Email: info@ajtesting.com

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1 Test Standards

The tests were performed according to following standards:
FCC Part 15, Subpart C, Section 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz
ANSI C63,10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

2 Summary

2.1 General Remarks

Date of receipt of test sample	29 Apr, 2022
Testing commenced on	29 Apr, 2022 ---- 20 June, 2022
Testing concluded on	20 June, 2022

2.2 Final Assessment

Test Content:	Assessment
The RF requirements pertaining to the technical standards and tested operation modes are	Fulfilled
The equipment under test	Fulfilled the RF requirements

3 Equipment Under Test

3.1 Short description of the Equipment Under Test (EUT)

EUT Name	RADIO CONTROLLED BOAT
Model No.	X03
FCC ID	2A2XW-X03
Number of Tested Samples	1
Power Supply Voltage	DC: 4.5V(AA*3)
Operating Mode	TX Mode
Operation Frequency	2412-2452MHz
Number of Channel	41
Modulation	GFSK
Antenna Type	WIRE antenna
Antenna Gain	0dBi
NOTE: 1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer.	

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3.2 EUT Configuration

(The CDF filled by the applicant can be viewed at the test laboratory.)

The following peripheral devices and interface cables were connected during the measurement:

Not Applicable



3.3 Description of Test Modes

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type. The worst case was found when the EUT was positioned on Y axis for radiated emission. The EUT was tested under the following mode.

EUT Configure Mode	Applicable to				Description
	RE < 1G	RE ≥ 1G	PLC	BW	DC 4.5V(AA*3)
A	√	√	N/A	√	

Where RE<1G: Radiated Emission below 1GHz RE ≥ 1G: Radiated Emission above 1GHz
PLC: Power Line Conducted Emission BW: 20dB bandwidth

Following channel(s) was (were) selected for the test as listed below.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	18	2429	35	2446		
2	2413	19	2430	36	2447		
3	2414	20	2431	37	2448		
4	2415	21	2432	38	2449		
5	2416	22	2433	39	2450		
6	2417	23	2434	40	2451		
7	2418	24	2435	41	2452		
8	2419	25	2436				
9	2420	26	2437				
10	2421	27	2438				
11	2422	28	2439				
12	2423	29	2440				
13	2424	30	2441				
14	2425	31	2442				
15	2426	32	2443				
16	2427	33	2444				
17	2428	34	2445				

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Channel List

Channel	Frequency (MHz)
The lowest channel	2412
The middle channel	2432
The highest channel	2452

Note: The more detailed channel, please refer to the product specifications

4 Test Environment

4.1 Address of the test Laboratory

Test Laboratory:	AJT Testing Services Limited
Test Site:	1-2/F., NO.1, WENHUA SOUTH ROAD, CHENGHUA INDUSTRIAL ZONE, CHENGHAI DISTRICT, SHANTOU, GUANGDONG, CHINA
Tel:	86-754-85860999
Fax:	86-754-86984098

4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:	
CNAS Accreditation NO.:	L4735
A2LA Accreditation NO.:	5443.01
Designation Number:	CN1263
Test Firm Registration Number:	127385
Industry Canada Site Registration Number:	25345
FCC Registration NO.:	0028094555

4.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:	
Temperature	15~35°C
Humidity	30~75%

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

Measurement Uncertainty (Standard: ETSI TR 100 028)	
Conducted Emission (CE)	±2.14dB
Radiated Emission below 1GHz	±4.44dB
Radiated Emission above 1GHz	±5.26dB

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

4.5 Test Types and Results

Standard: FCC PART 15, SUBPART C (SECTION 15.249)		
Standard section	Test Type	Result
§15.209 & §15.249(a)	Radiated Emission (RE)	PASS
§15.215(c)	20dB Bandwidth	PASS
§15.207(a)	Conducted Emission (CE)	N/A
§15.203	Antenna Requirement	PASS
§15.205	Restricted Band Around Fundamental Frequency	PASS

5 Test Conditions and Results

5.1 Radiated Emission (RE)

For test instruments and accessories used see section 6

5.1.1 Test Procedures

- (1) The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- (3) The antenna is a broadband antenna, and its 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.
- (4) 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

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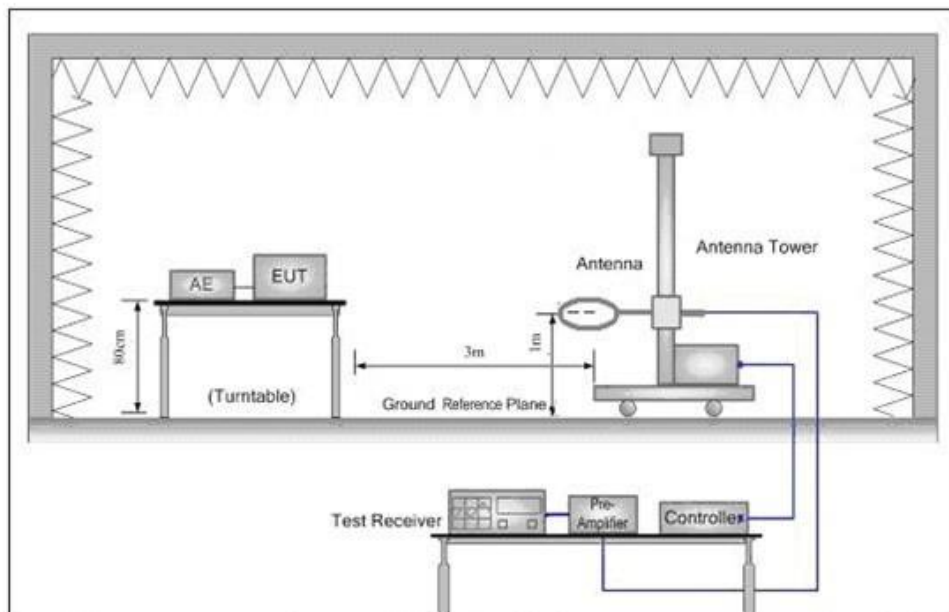
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- (5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- (6) For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- (7) If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. All modes of operation were investigated and the worst-case emissions are reported
4. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

5.1.2 Test Setup



Below 30MHz

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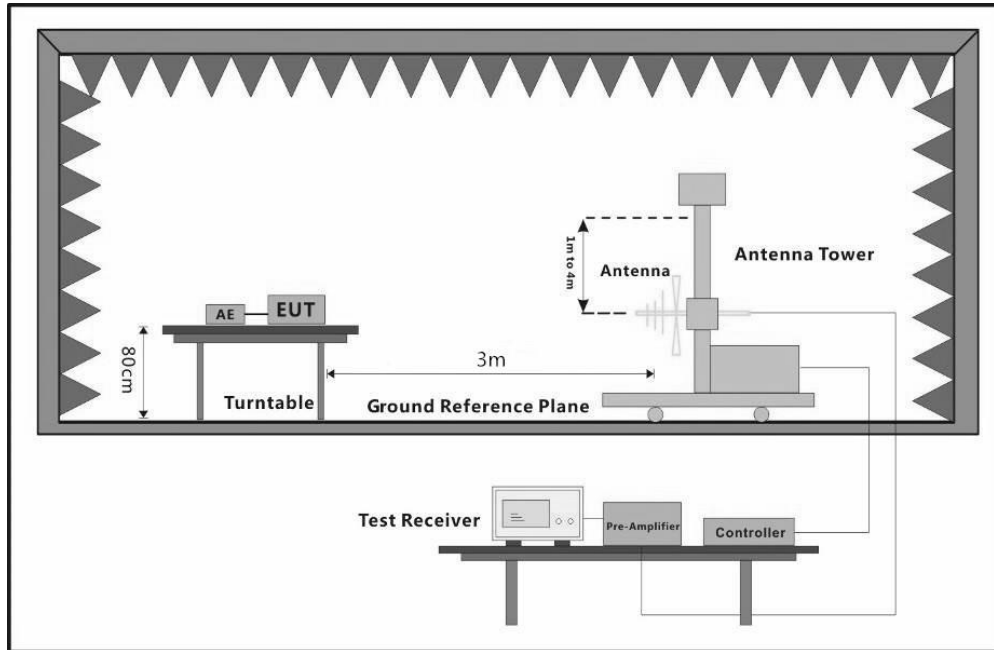
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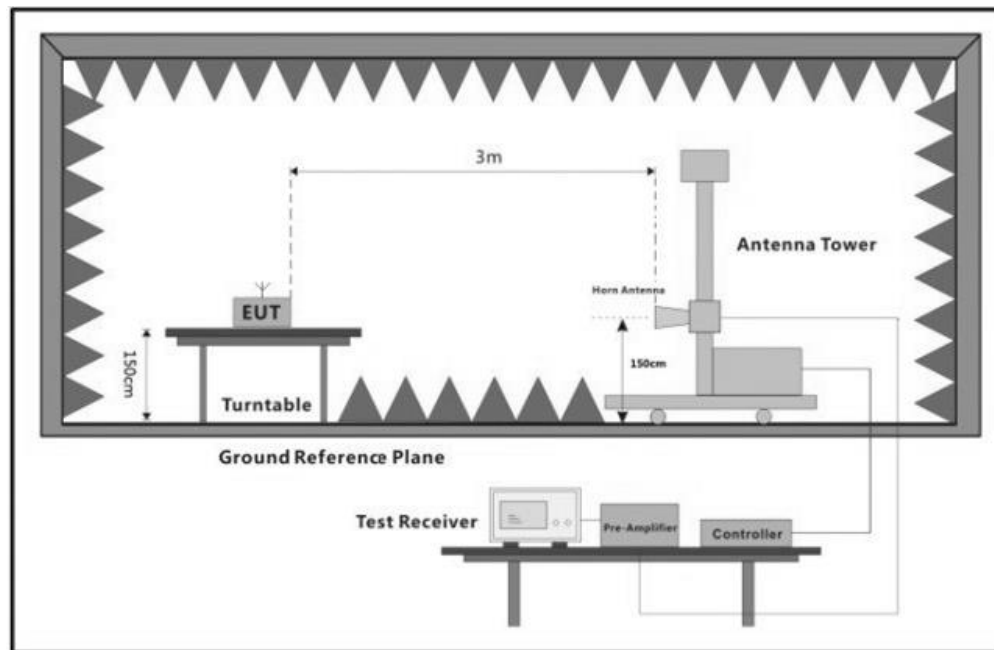
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30MHz-1000MHz



Above 1GHz

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5.1.3 Test Limits

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Filed Strength of Fundamental (milli-volts/meter)	Field Strength of Harmonics (micro-volts/meter)
902 ~ 928 MHz	50	500
2400 ~ 2483.5 MHz	50	500
5725 ~5875 MHz	50	500
24.0 ~24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
4. Emission from 9kHz to 30MHz is more than 20dB below the limit.

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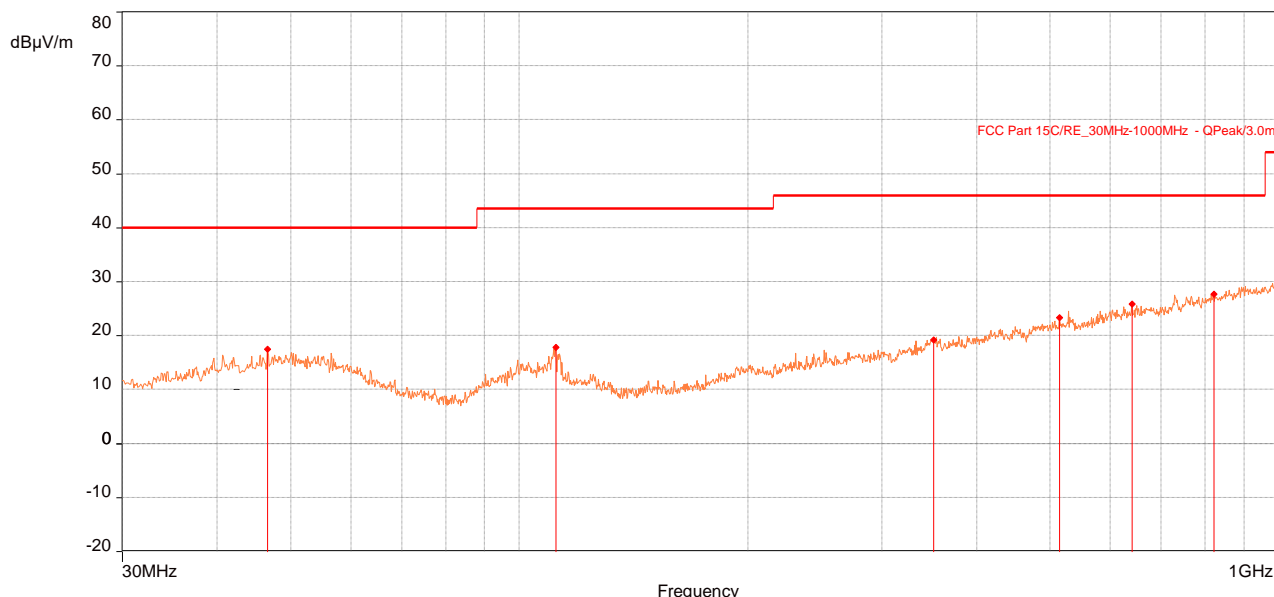
5.1.4 Test Results

The disturbance 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.

5.1.4.1 Radiated Emissions Test (Below 1GHz)

Test Point	Operation Mode	Result
Horizontal	TX mode	PASS

EUT Name	RADIO CONTROLLED BOAT
Operating Condition	DC: 4.5V(AA*3)
Test Condition	Ambient Temperature: 24°C Humidity: 67%RH



Frequency (MHz)	Peak (dBμV/m)	QP (dBμV/m)	QP Lim. (dBμV/m)	Margin (dB)	Angle (°)	Height (m)	Polarization
46.587	17.53	/	40.00	-22.47	224.00	1.99	Horizontal
111.577	17.84	/	43.50	-25.66	234.00	1.00	Horizontal
350.973	19.21	/	46.00	-26.79	258.00	1.99	Horizontal
513.642	23.37	/	46.00	-22.63	24.00	1.99	Horizontal
640.13	25.84	/	46.00	-20.16	319.00	1.99	Horizontal
821.035	27.73	/	46.00	-18.27	3.00	1.99	Horizontal

- 1.QP is abbreviation of Quasi-Peak
- 2.Margin = Emission Level - Limit Value
- 3.The emission levels of other frequencies were more than 20dB margin against the limit

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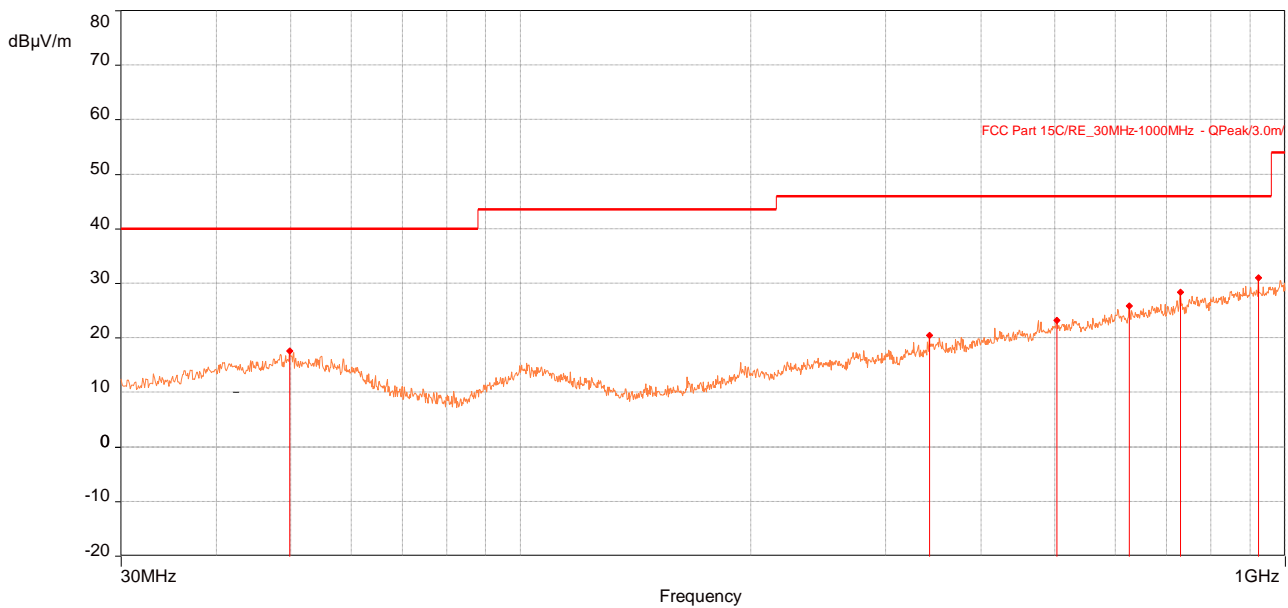
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Test Point	Operation Mode	Result
Vertical	TX mode	PASS

EUT Name	RADIO CONTROLLED BOAT
Operating Condition	DC: 4.5V(AA*3)
Test Condition	Ambient Temperature: 24°C Humidity: 67%RH



Frequency (MHz)	Peak (dBμV/m)	QP (dBμV/m)	QP Lim. (dBμV/m)	Margin (dB)	Angle (°)	Height (m)	Polarization
49.885	17.59	/	40.00	-22.41	37.00	2.00	Vertical
342.631	20.46	/	46.00	-25.54	295.00	2.00	Vertical
502.972	23.25	/	46.00	-22.75	47.00	1.01	Vertical
624.998	25.87	/	46.00	-20.13	229.00	2.00	Vertical
728.497	28.43	/	46.00	-17.57	315.00	1.01	Vertical
922.012	30.99	/	46.00	-15.01	185.00	2.00	Vertical

- 1.QP is abbreviation of Quasi-Peak
- 2.Margin = Emission Level - Limit Value
- 3.The emission levels of other frequencies were more than 20dB margin against the limit

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5.1.4.2 Radiated Emissions Test (Above 1GHz)

EUT Name	RADIO CONTROLLED BOAT		
Channel	The Lowest Channel (2412MHz)	Detector Function	Peak (PK) Average (AV)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
2390.04	21.73	54.00	-32.27	1.52	170.00	Horizontal	-15.24	Average
2400	23.63	54.00	-30.37	1.52	348.00	Horizontal	-15.24	Average
*2412	62.50	94.00	-31.50	1.52	341.00	Horizontal	-15.24	Average
4824.9	45.15	54.00	-8.85	1.98	117.00	Horizontal	-15.24	Average
7236.45	38.39	54.00	-15.61	1.01	88.00	Horizontal	-15.24	Average
9648	46.50	54.00	-7.50	1.98	142.00	Horizontal	-15.24	Average
12060.7	47.45	54.00	-6.55	1.98	134.00	Horizontal	-15.24	Average
2390.04	36.97	74.00	-37.03	1.52	170.00	Horizontal	-3.79	Peak
2400	38.87	74.00	-35.13	1.52	348.00	Horizontal	-3.74	Peak
*2412	77.74	114.00	-36.26	1.52	341.00	Horizontal	-3.61	Peak
4824.9	60.39	74.00	-13.61	1.98	117.00	Horizontal	1.44	Peak
7236.45	53.63	74.00	-20.37	1.01	88.00	Horizontal	8.60	Peak
9648	61.74	74.00	-12.26	1.98	142.00	Horizontal	12.23	Peak
12060.7	62.69	74.00	-11.31	1.98	134.00	Horizontal	15.68	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
2390.04	20.08	54.00	-33.92	1.50	355.00	Vertical	-15.24	Average
2400	24.90	54.00	-29.10	1.50	117.00	Vertical	-15.24	Average
*2412	61.70	94.00	-32.30	1.50	309.00	Vertical	-15.24	Average
4824.9	40.28	54.00	-13.72	1.99	57.00	Vertical	-15.24	Average
7236.45	37.07	54.00	-16.93	1.99	247.00	Vertical	-15.24	Average
9648	43.28	54.00	-10.72	1.00	168.00	Vertical	-15.24	Average
12060.7	41.83	54.00	-12.17	1.00	325.00	Vertical	-15.24	Average
2390.04	35.32	74.00	-38.68	1.50	355.00	Vertical	-3.79	Peak
2400	40.14	74.00	-33.86	1.50	117.00	Vertical	-3.74	Peak
*2412	76.94	114.00	-37.06	1.50	309.00	Vertical	-3.61	Peak
4824.9	55.52	74.00	-18.48	1.99	57.00	Vertical	1.44	Peak
7236.45	52.31	74.00	-21.69	1.99	247.00	Vertical	8.60	Peak
9648	58.52	74.00	-15.48	1.00	168.00	Vertical	12.23	Peak

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12060.7	57.07	74.00	-16.93	1.00	325.00	Vertical	15.68	Peak
<p>Remarks:</p> <ol style="list-style-type: none">1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m)2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)3. The emission levels of other frequencies were more than 20dB margin against the limit.4. Margin = Emission level - Limit value5. " * ": Fundamental frequency.6. The average value of fundamental frequency is: Average value = Peak value +AV factor, where the AV factor is calculated from following formula: AV factor=20 log (Duty cycle) = 20 log (17.29%) = -15.24dB, please see 5.1.4.3.								

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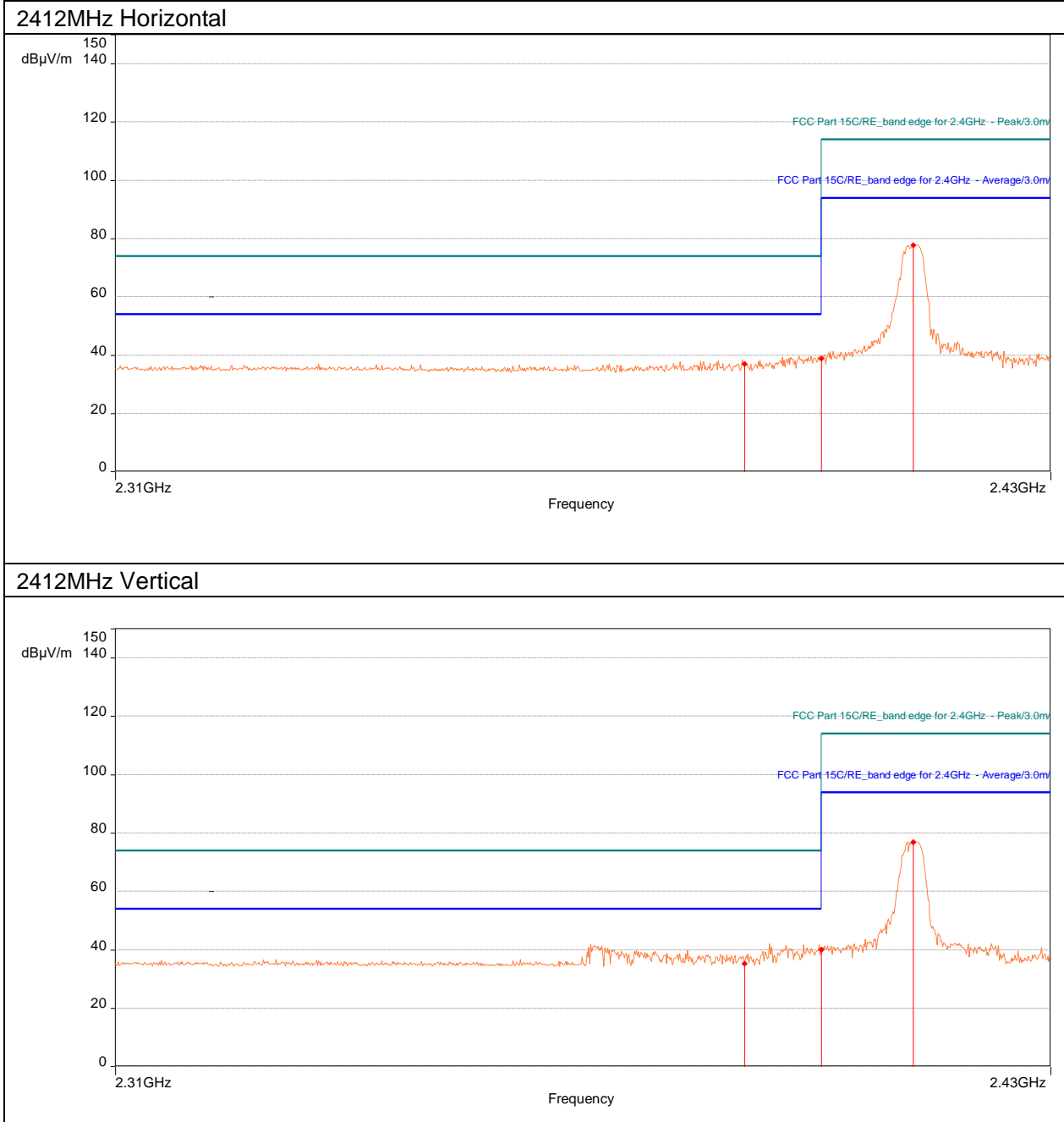
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Test Report

No.: AJT220429008E

Band Edge Plot



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Test Report

No.: AJT220429008E

EUT Name	RADIO CONTROLLED BOAT		
Channel	The Middle Channel (2432mhz)	Detector Function	Peak (PK) Average (AV)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
*2432.064	62.83	94.00	-31.17	1.48	341.00	Horizontal	-15.24	Average
4864	43.99	54.00	-10.01	1.00	58.00	Horizontal	-15.24	Average
7296.25	38.51	54.00	-15.49	1.00	101.00	Horizontal	-15.24	Average
9729.65	45.39	54.00	-8.61	1.00	188.00	Horizontal	-15.24	Average
12160.75	45.56	54.00	-8.44	1.00	133.00	Horizontal	-15.24	Average
*2432.064	78.07	114.00	-35.93	1.48	341.00	Horizontal	-3.70	Peak
4864	59.23	74.00	-14.77	1.00	58.00	Horizontal	1.03	Peak
7296.25	53.75	74.00	-20.25	1.00	101.00	Horizontal	8.33	Peak
9729.65	60.63	74.00	-13.37	1.00	188.00	Horizontal	12.69	Peak
12160.75	60.80	74.00	-13.20	1.00	133.00	Horizontal	16.22	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
*2432.064	60.27	94.00	-33.73	1.50	323.00	Vertical	-15.24	Average
4864	40.55	54.00	-13.45	2.00	337.00	Vertical	-15.24	Average
7296.25	37.84	54.00	-16.16	2.00	205.00	Vertical	-15.24	Average
9729.65	44.13	54.00	-9.87	1.01	143.00	Vertical	-15.24	Average
12160.75	43.52	54.00	-10.48	2.00	236.00	Vertical	-15.24	Average
*2432.064	75.51	114.00	-38.49	1.50	323.00	Vertical	-3.70	Peak
4864	55.79	74.00	-18.21	2.00	337.00	Vertical	1.03	Peak
7296.25	53.08	74.00	-20.92	2.00	205.00	Vertical	8.33	Peak
9729.65	59.37	74.00	-14.63	1.01	143.00	Vertical	12.69	Peak
12160.75	58.76	74.00	-15.24	2.00	236.00	Vertical	16.22	Peak

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Test Report

No.: AJT220429008E

Remarks:

1. Emission level (dB μ V/m) = Raw Value (dB μ V) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The emission levels of other frequencies were more than 20dB margin against the limit.
4. Margin = Emission level - Limit value
5. " * ": Fundamental frequency.
6. The average value of fundamental frequency is: Average value = Peak value +AV factor, where the AV factor is calculated from following formula: AV factor=20 log (Duty cycle) = 20 log (17.29%) = -15.24dB, please see 5.1.4.3.

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Test Report

No.: AJT220429008E

EUT Name	RADIO CONTROLLED BOAT		
Channel	The Highest Channel (2452MHz)	Detector Function	Peak (PK) Average (AV)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
*2452	61.30	94.00	-32.70	1.52	341.00	Horizontal	-15.24	Average
2483.5	23.53	54.00	-30.47	1.52	332.00	Horizontal	-15.24	Average
4904.25	42.55	54.00	-11.45	1.01	62.00	Horizontal	-15.24	Average
7356.05	39.41	54.00	-14.59	1.01	89.00	Horizontal	-15.24	Average
9807.85	48.29	54.00	-5.71	1.01	186.00	Horizontal	-15.24	Average
12257.35	46.01	54.00	-7.99	1.01	253.00	Horizontal	-15.24	Average
*2452	76.54	114.00	-37.46	1.52	341.00	Horizontal	-3.74	Peak
2483.5	38.77	74.00	-35.23	1.52	332.00	Horizontal	-3.76	Peak
4904.25	57.79	74.00	-16.21	1.01	62.00	Horizontal	0.91	Peak
7356.05	54.65	74.00	-19.35	1.01	89.00	Horizontal	8.41	Peak
9807.85	63.53	74.00	-10.47	1.01	186.00	Horizontal	13.02	Peak
12257.35	61.25	74.00	-12.75	1.01	253.00	Horizontal	15.82	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
*2452	61.27	94.00	-32.73	1.50	119.00	Vertical	-15.24	Average
2483.5	23.52	54.00	-30.48	1.50	229.00	Vertical	-15.24	Average
4904.25	41.13	54.00	-12.87	1.99	96.00	Vertical	-15.24	Average
7356.05	38.51	54.00	-15.49	1.99	29.00	Vertical	-15.24	Average
9807.85	45.37	54.00	-8.63	1.00	126.00	Vertical	-15.24	Average
12263.1	41.19	54.00	-12.81	1.99	289.00	Vertical	-15.24	Average
*2452	76.51	114.00	-37.49	1.50	119.00	Vertical	-3.74	Peak
2483.5	38.76	74.00	-35.24	1.50	229.00	Vertical	-3.76	Peak
4904.25	56.37	74.00	-17.63	1.99	96.00	Vertical	0.91	Peak
7356.05	53.75	74.00	-20.25	1.99	29.00	Vertical	8.41	Peak
9807.85	60.61	74.00	-13.39	1.00	126.00	Vertical	13.02	Peak

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Test Report

No.: AJT220429008E

12263.1	56.43	74.00	-17.57	1.99	289.00	Vertical	15.79	Peak
<p>Remarks:</p> <ol style="list-style-type: none">1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m)2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)3. The emission levels of other frequencies were more than 20dB margin against the limit.4. Margin = Emission level - Limit value5. " * ": Fundamental frequency.6. The average value of fundamental frequency is: Average value = Peak value +AV factor, where the AV factor is calculated from following formula: AV factor=20 log (Duty cycle) = 20 log (17.29%) = -15.24dB, please see 5.1.4.3.								

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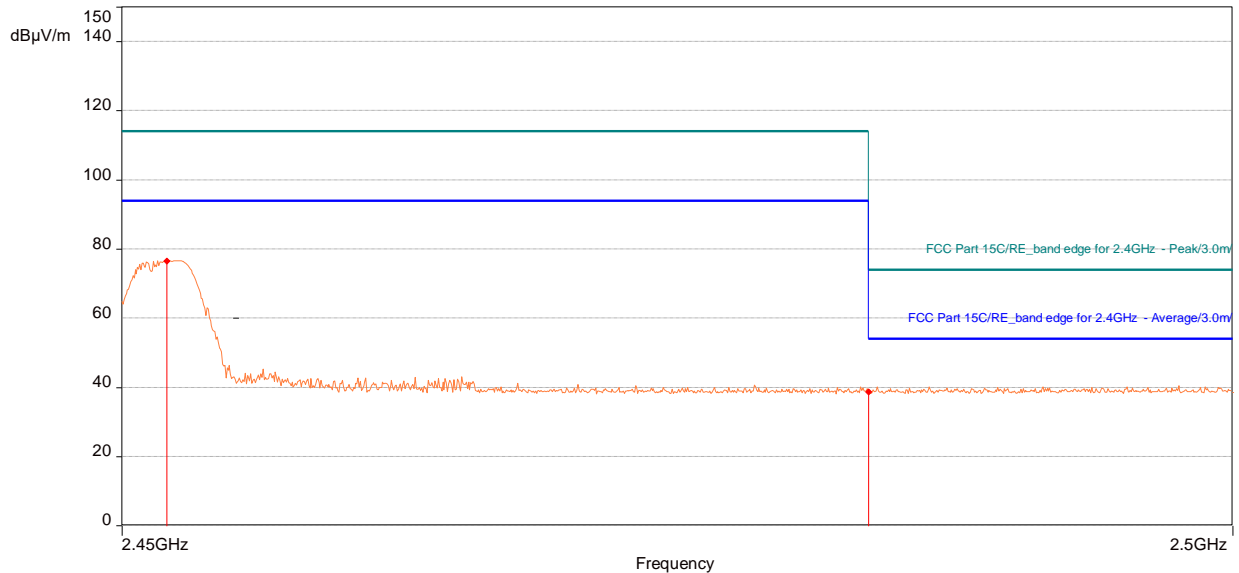
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Test Report

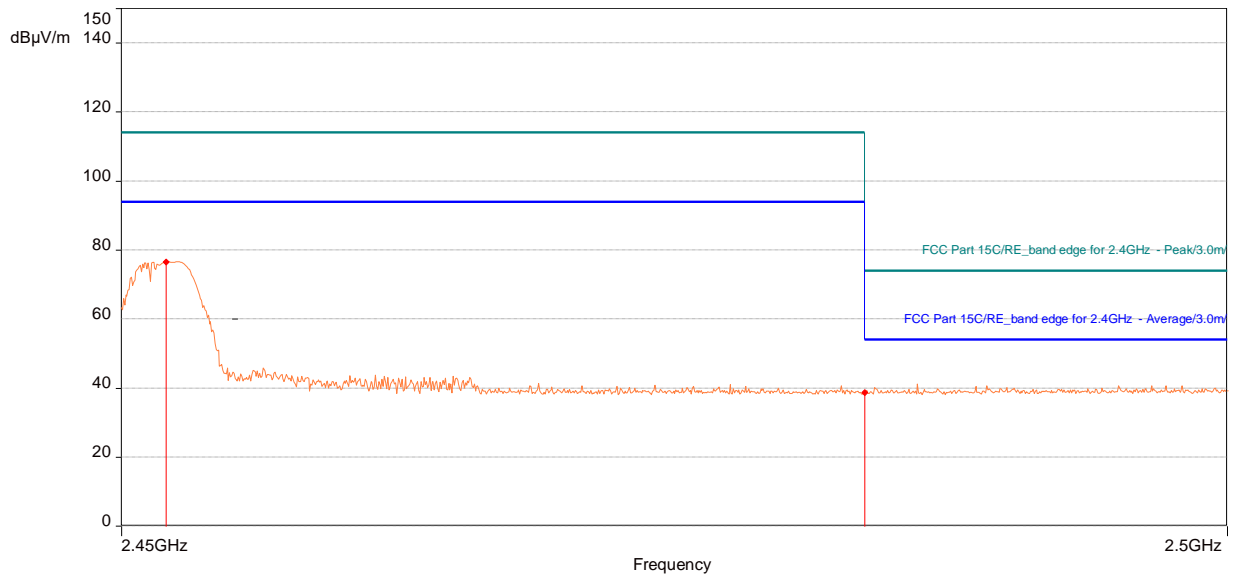
No.: AJT220429008E

Band Edge Plot

2452MHz Horizontal



2452MHz Vertical



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Test Report

No.: AJT220429008E

5.1.4.3 Calculation of Average Factor

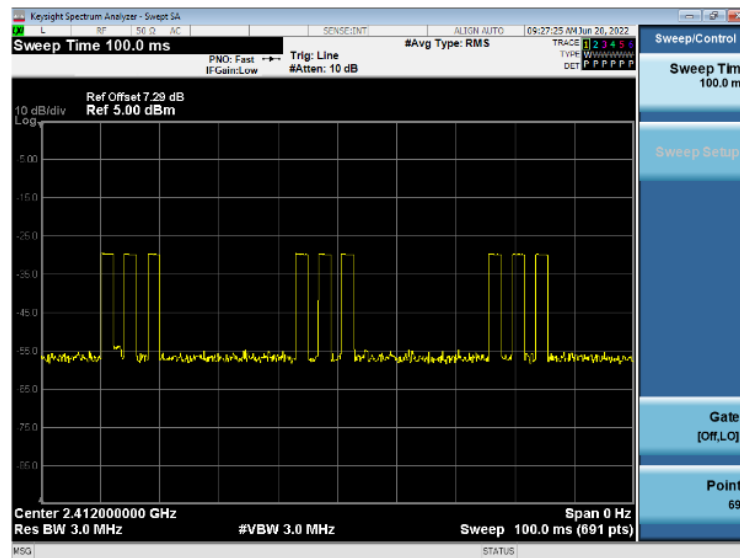
Effective period of the cycle = 5.652ms

The duration of one cycle = 32.680ms

Duty Cycle = 5.652ms / 32.680ms = 17.29%

Averaging factor in dB = $20 \log(\text{duty cycle}) = 20 \log(17.29\%) = -15.24\text{dB}$

100ms Duty Cycle



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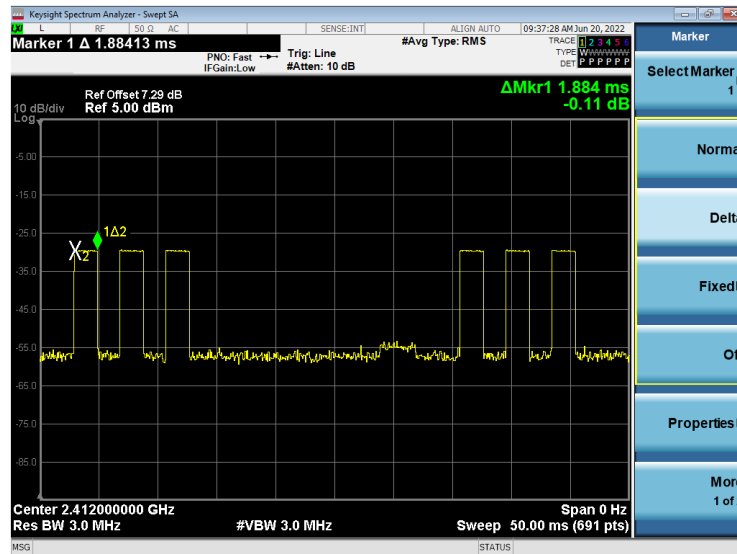
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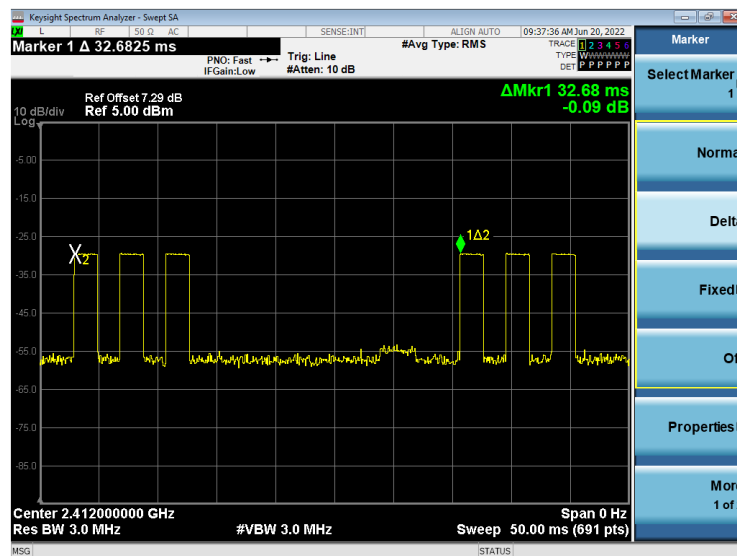
Test Report

No.: AJT220429008E

Ton of one cycle



The duration of one cycle



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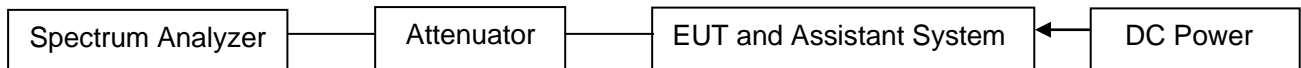
5.2 20dB Bandwidth

For test instruments and accessories used see section 6

5.2.1 Test Procedures

- (1) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- (2) Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- (3) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- (4) Repeat above procedures until all frequencies measured were complete.

5.2.2 Test Setup



5.2.3 Test Limits

According to FCC 15.215(c), must be designed to ensure that the 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.2.4 Test Results

Channel	frequency (MHz)	F _L (MHz)	F _H (MHz)	20dB Bandwidth (MHz)
The lowest channel	2412	2411.372	2412.864	1.492
The middle channel	2432	2431.304	2432.868	1.564
The highest channel	2452	2451.200	2452.876	1.676

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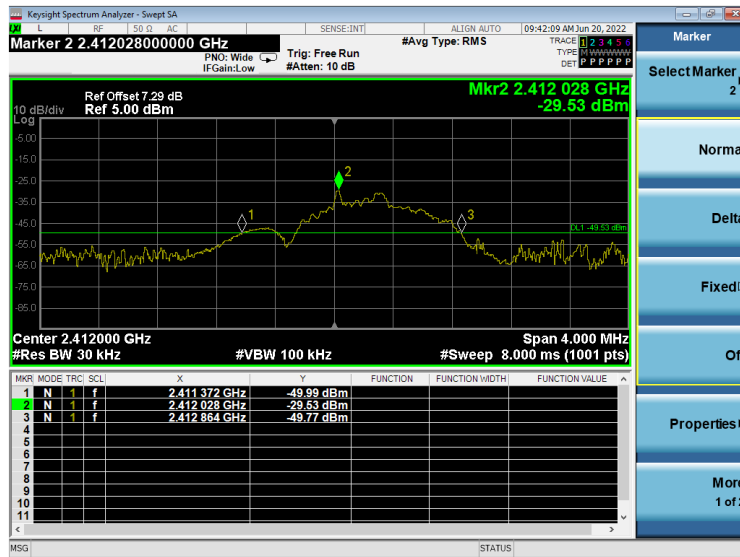
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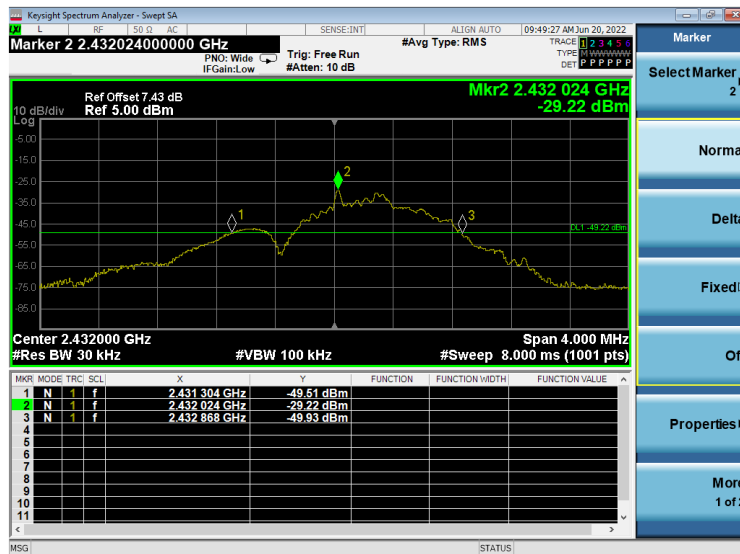
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Test Report

No.: AJT220429008E



2412MHz



2432MHz

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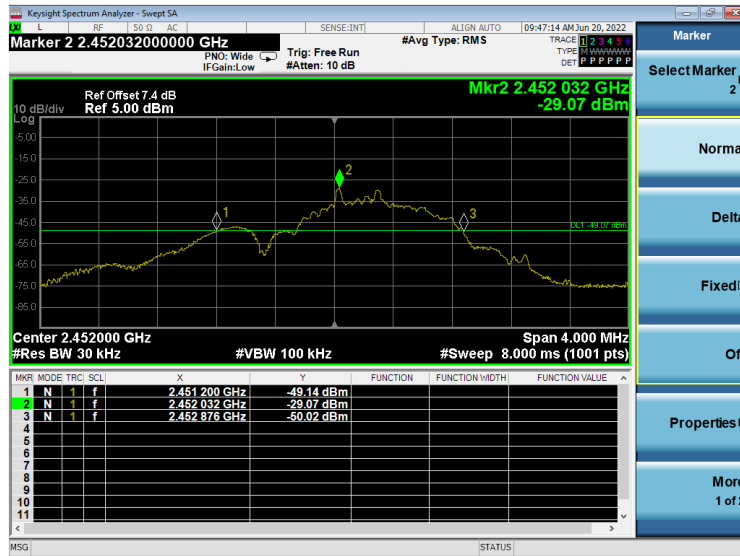
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Test Report

No.: AJT220429008E



2452MHz

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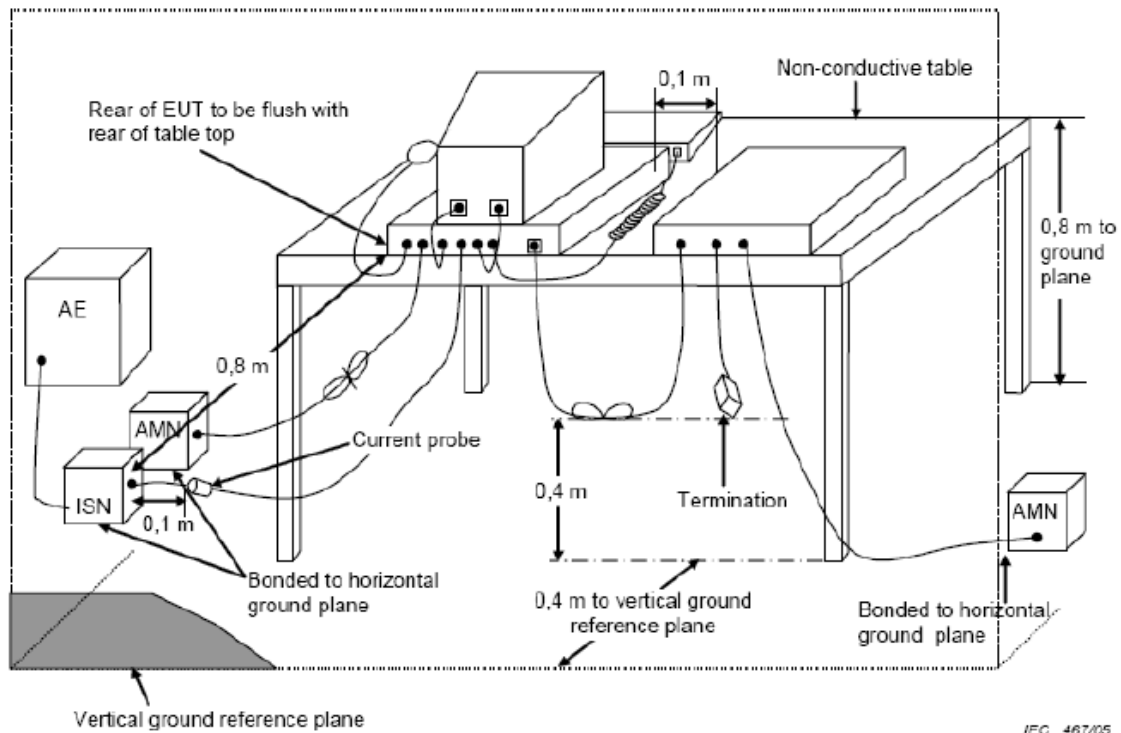
5.3 Conducted Emission (CE)

For test instruments and accessories used see section 6

5.3.1 Test Procedures

The PC Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. 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 RSS-Gen issue 5 on Conducted Emission Test.

5.3.2 Test Setup



IEC 467/05

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Test Report

No.: AJT220429008E

5.3.3 Test Limits

Standard: FCC Part 15 §15.207(a)		
Frequency of emission (MHz)	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

5.3.4 Test Results

Not Applicable

Note: The device is a DC power supply and does not apply to conducted emissions.

5.4 Antenna Requirements

5.4.1 Test Standard:

FCC Part 15, Subpart C 15.203

5.4.2 Standard 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.

5.4.3 EUT Antenna:

The antenna is WIRE antenna and no consideration of replacement. The best case gain of the antenna is 0dBi. Antenna location: Refer to Internal Photos of RADIO CONTROLLED BOAT.

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Test Report

No.: AJT220429008E

6 Test Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	Keysight	N9010A	MY51120099	2021/11/30	2022/11/30
2	JS0806-2 RF Control Unit	Tonscend	JS0806-2	188060124	2021/11/30	2022/11/30
3	Broadband Preamplifier	SCHWARZBECK	BBV 9743B	00067	2022/03/22	2023/03/22
4	Broadband Preamplifier	SCHWARZBECK	BBV 9718B	00002	2022/03/22	2023/03/22
5	EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102452	2021/07/16	2022/07/16
6	Trilog Broadband Antenna	SCHWARZBECK	VULB 9163	9163-1127	2021/07/12	2022/07/12
7	Horn Antenna	SCHWARZBECK	BBHA 9120D	01829	2022/03/22	2023/03/22
8	DC Power Supply	SIGLENT	SPD1168X	SPD1XEAD3 R 0167	2021/07/15	2022/07/15
9	Vector Signal Generator	Keysight	N5172B	MY53052255	2021/07/16	2022/07/16
10	Analog Signal Generator	Keysight	N5171B	MY53051692	2021/07/16	2022/07/16
11	Temperature Humidity Chamber	Yiheng	BPS-50CB	191005684	2021/11/30	2022/11/30
12	Temperature and Humidity Indicator	JianDaRenKe	Cos-03	612058	2021/06/29	2022/06/29
13	BAT-EMC Testing (Test Software)	NEXIO	BAT-EMC	Version: 3.16.0.74	N/A	N/A
14	JS1120-3 Test System (Test Software)	Tonscend	JS1120-3	Version: 2.5.77.0418	N/A	N/A
15	Double Ridge Guide Horn Antennas	A.H.Systems	SAS-574	588	2021/06/28	2022/06/28
16	Active Loop Antenna	BeiJing DaZe technology co. LTD	ZN30900C	15015	2022/03/22	2023/03/22

This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Disagreement against this test report, if any, should be filed with to our company in writing within 15 days of receiving the report. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission.

AJT TESTING SERVICES LIMITED

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Test Report

No.: AJT220429008E

7 Test Photographs

Referring to – “Test Setup Photos of RADIO CONTROLLED BOAT”.

8 Photos of the EUT

Referring to – “External Photos of RADIO CONTROLLED BOAT” and “Internal Photos of RADIO CONTROLLED BOAT”.

9 Manufacturer/ Approval Holder Declaration

The following identical model(s):

X03A, X05, X05A, X06, X06A, X07, X07A, X08, X08A, X09, X09A, X10, X10A,
X11, X11A, X12, X12A, X13, X13A, X15, X15A, X16, X16A, X17, X17A, X18,
X18A, X19, X19A, X20, X20A, X21, X21A

Belong to the tested device:

Product Description: RADIO CONTROLLED BOAT
Model No.: X03

END OF TEST REPORT

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