



Test Report



No.: AJT250806025E-1

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

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

Sample Description: remote control car
Model No.: LS-X4A-TBX
18859A, 18858A, 16889A, 16890A, 16890SA, 901A, 902A, 903A, 905A, 907A, 908A, 909A, 2108A, 3100A, 3101, 3101A, 3102, 3102A, 3103, 3103A, 3105, 3105A, 3106, 3106A, 3107, 3107A, 2996A, 2997A, 2998A, 2999A, 2201A, 2202A, 2203A, 915A, 916A, 917A, 918A, 919A, 5101, 5102, 5103, 5105, 5106, 5107, 5108, 5109, LS-T6A-TBX, LS-T3A-TBX, LS-T3P-TBX, LS-X7A-TBX, LS-X8A-TBX, LS-R2020D-2.4GR, LS-R2020S-2.4GR, LS-XR20A-2.4GR, LS-X6R-BGX, LS-XR10D-GS, LS-XR12D-GS, LS-XR14D-GS, LS-XR16A-GS, LS-XR18A-BS, LS-XR18A-GS, LS-XR20A-GS, LS-XR20D-GS, LS-XR30D-GS, LS-XR40D-GS, LS-XR18DXB-RSW, LS-XR20DXB-RSW, LS-XR30DXB-RSW, LS-XR40DXB-RSW, LS-XR50DXB-RSW
Additional Model:
LS-X4A-TBX
FCC ID: 2A2XW-LS-X4A
Sample Received Date: August 06, 2025
Testing Completed Date: August 13, 2025

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:

Jason

Approved by:

Position: Technical Supervisor
Date: 2025-08-19



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Test Report



No.: AJT250806025E-1

TABLE OF CONTENTS

1 Test Standards	3
2 Summary	3
2.1 General Remarks	3
2.2 Final Assessment	3
3 Equipment Under Test.....	4
3.1 Short description of the Equipment Under Test (EUT).....	4
3.2 EUT Configuration	5
3.3 Description of Test Modes.....	5
4 Test Environment.....	7
4.1 Address of the test Laboratory	7
4.2 Environmental Conditions	7
4.3 Statement of the Measurement Uncertainty.....	7
4.4 Test Types and Results.....	8
5 Test Conditions and Results.....	9
5.1 Radiated Emission (RE)	9
5.2 20dB Bandwidth	22
5.3 Conducted Emission (CE)	25
5.4 Antenna Requirements.....	26
6 Test Equipment.....	27
7 Test Photographs	28
8 Photos of the EUT	28

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Test Report



No.: AJT250806025E-1

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	August 06, 2025
Testing commenced on	August 06, 2025 - August 13, 2025
Testing concluded on	August 13, 2025

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

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Test Report



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3 Equipment Under Test

3.1 Short description of the Equipment Under Test (EUT)

EUT Name	remote control car
Model No.	LS-X4A-TBX
Additional Model	18859A, 18858A, 16889A, 16890A, 16890SA, 901A, 902A, 903A, 905A, 907A, 908A, 909A, 2108A, 3100A, 3101, 3101A, 3102, 3102A, 3103, 3103A, 3105, 3105A, 3106, 3106A, 3107, 3107A, 2996A, 2997A, 2998A, 2999A, 2201A, 2202A, 2203A, 915A, 916A, 917A, 918A, 919A, 5101, 5102, 5103, 5105, 5106, 5107, 5108, 5109, LS-T6A-TBX, LS-T3A-TBX, LS-T3P-TBX, LS-X7A-TBX, LS-X8A-TBX, LS-R2020D-2.4GR, LS-R2020S-2.4GR, LS-XR20A-2.4GR, LS-X6R-BGX, LS-XR10D-GS, LS-XR12D-GS, LS-XR14D-GS, LS-XR16A-GS, LS-XR18A-BG, LS-XR18A-GS, LS-XR20A-GS, LS-XR20D-GS, LS-XR30D-GS, LS-XR40D-GS, LS-XR18DXB-RSW, LS-XR20DXB-RSW, LS-XR30DXB-RSW, LS-XR40DXB-RSW, LS-XR50DXB-RSW
FCC ID	2A2XW-LS-X4A
Number of Tested Samples	1
Power Supply Voltage	DC 3.0V(AA *2)
Operating Mode	TX Mode
Operation Frequency	2410-2470MHz
Number of Channel	61
Modulation	GFSK
Antenna Type	PCB Antenna
Antenna Gain	0dBi
Max. RF output power:	93.54 dBμV/m@3m
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:



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 3.0V(AA *2)
A	√	√	N/A	√	

Where RE<1G: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE ≥ 1G: Radiated Emission above 1GHz
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	2410	17	2426	33	2442	49	2458
2	2411	18	2427	34	2443	50	2459
3	2412	19	2428	35	2444	51	2460
4	2413	20	2429	36	2445	52	2461
5	2414	21	2430	37	2446	53	2462
6	2415	22	2431	38	2447	54	2463
7	2416	23	2432	39	2448	55	2464
8	2417	24	2433	40	2449	56	2465
9	2418	25	2434	41	2450	57	2466
10	2419	26	2435	42	2451	58	2467
11	2420	27	2436	43	2452	59	2468
12	2421	28	2437	44	2453	60	2469
13	2422	29	2438	45	2454	61	2470
14	2423	30	2439	46	2455		
15	2424	31	2440	47	2456		
16	2425	32	2441	48	2457		

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Test Report



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Channel List

Channel	Frequency (MHz)
The lowest channel	2410
The middle channel	2440
The highest channel	2470

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

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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 Environmental Conditions

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

4.3 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. Furthermore, component and process variability of devices are similar to that tested. The 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
Occupied bandwidth	55.4kHz

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

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Test Report



No.: AJT250806025E-1

4.4 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

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Test Report



No.: AJT250806025E-1

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.
- (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.

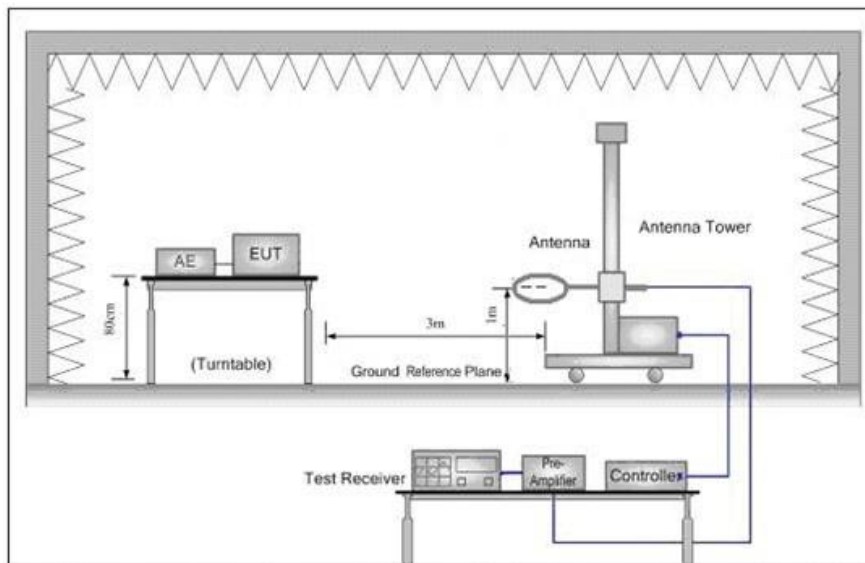
5.1.2 Test Setup

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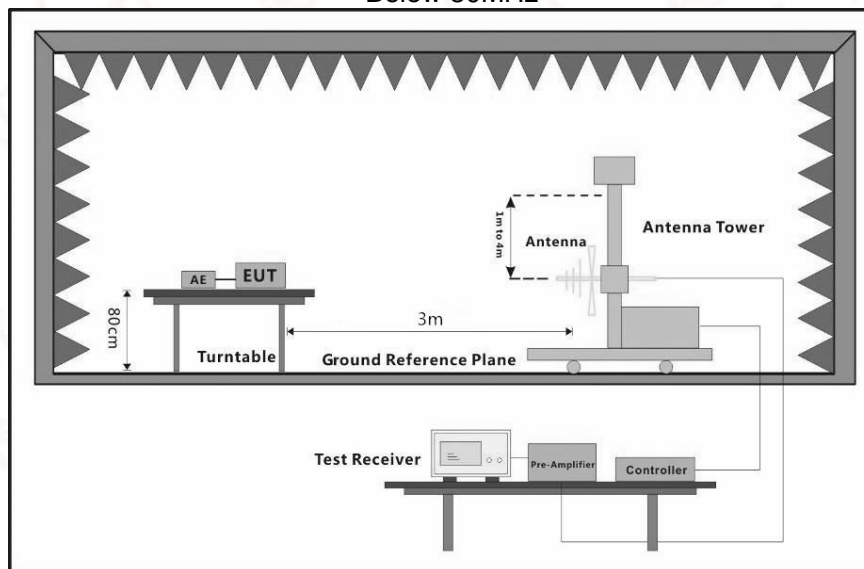
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Below 30MHz



30MHz-1000MHz

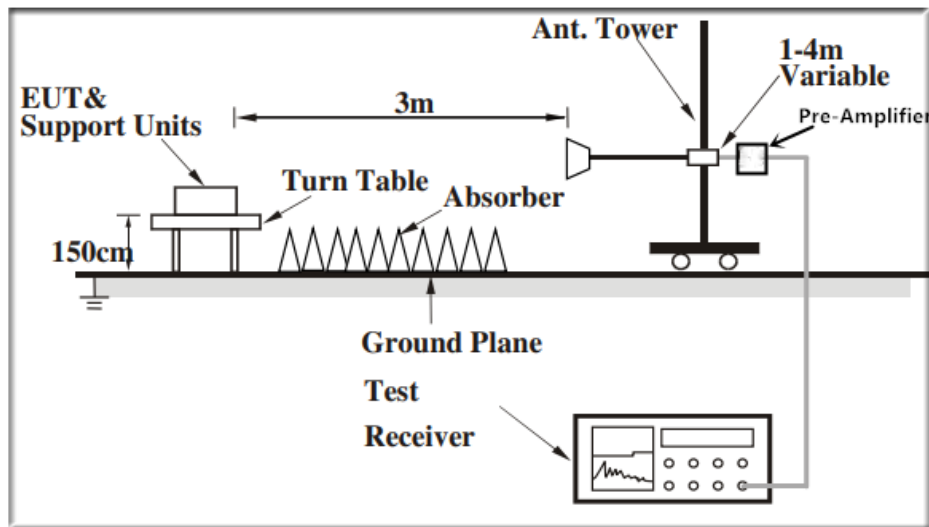
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Above 1GHz

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Test Report



No.: AJT250806025E-1

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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Test Report



No.: AJT250806025E-1

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)

Operation Mode	TX mode
Channel	The Lowest Channel (2410MHz)
Test Condition	Ambient Temperature: 27°C Humidity: 65%RH

Frequency (MHz)	Emission Level (dBμV/m)	QP Lim. (dBμV/m)	Margin (dB)	Angle (°)	Height (m)	Polarization
51.825	16.68	40.00	-23.32	226.00	1.50	Horizontal
107.988	14.62	43.50	-28.88	300.00	1.50	Horizontal
417.03	21.22	46.00	-24.78	218.00	1.50	Horizontal
531.587	23.77	46.00	-22.23	281.00	1.50	Horizontal
729.758	27.88	46.00	-18.12	270.00	1.50	Horizontal
910.857	29.05	46.00	-16.95	0.00	1.50	Horizontal
49.497	16.42	40.00	-23.58	323.00	1.50	Vertical
103.235	15.00	43.50	-28.50	175.00	1.50	Vertical
345.832	19.34	46.00	-26.66	227.00	1.50	Vertical
579.505	24.49	46.00	-21.51	333.00	1.50	Vertical
728.497	27.14	46.00	-18.86	232.00	1.50	Vertical
935.107	29.01	46.00	-16.99	265.00	1.50	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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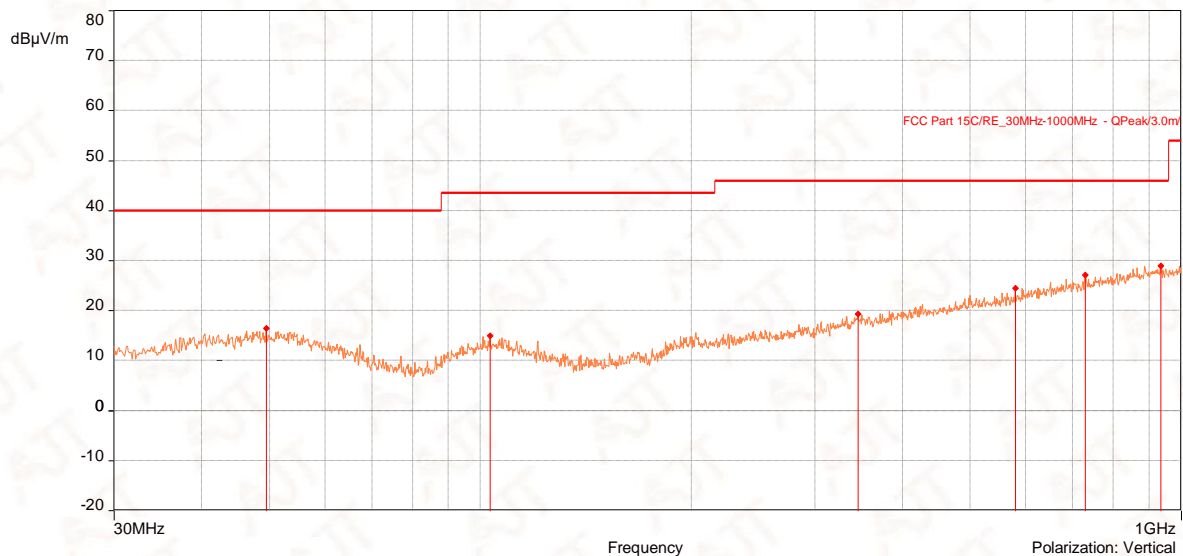
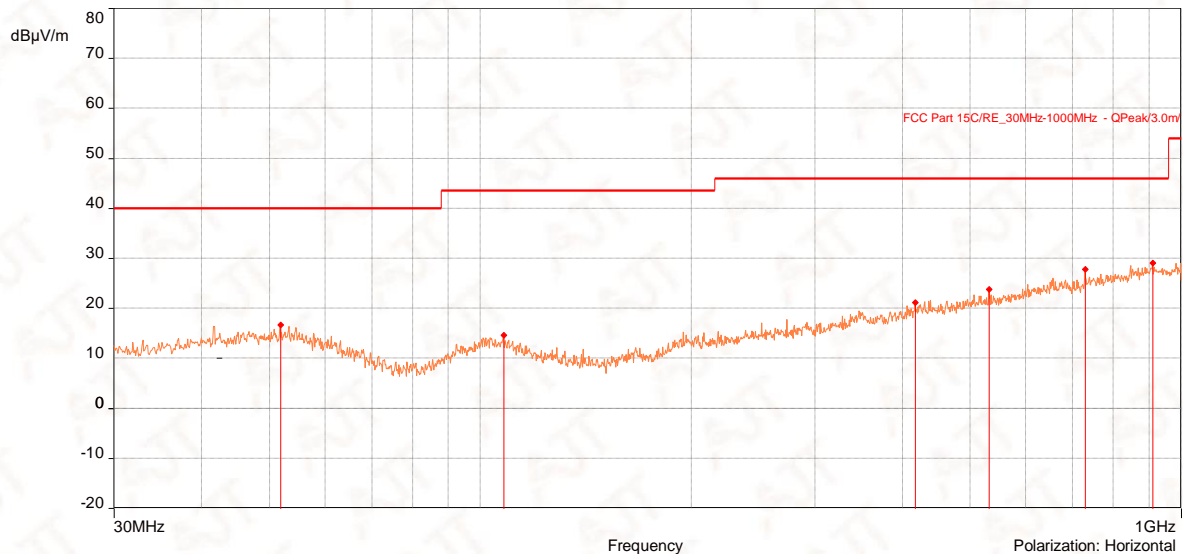


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Test Graph:



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No.: AJT250806025E-1

5.1.4.2 Radiated Emissions Test (Above 1GHz)

Channel	The Lowest Channel (2410MHz)	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
2398.68	44.09	54.00	-9.91	1.48	233.00	Horizontal	-16.90	Average
2400	44.26	54.00	-9.74	1.48	158.00	Horizontal	-16.90	Average
*2409.96	76.64	94.00	-17.36	1.48	158.00	Horizontal	-16.90	Average
4819.6	42.41	54.00	-11.59	1.02	1.00	Horizontal	-16.90	Average
7229.8	32.27	54.00	-21.73	1.99	322.00	Horizontal	-16.90	Average
2398.68	60.99	74.00	-13.01	1.48	233.00	Horizontal	-0.11	Peak
2400	61.16	74.00	-12.84	1.48	158.00	Horizontal	-0.10	Peak
*2409.96	93.54	114.00	-20.46	1.48	158.00	Horizontal	0.01	Peak
4819.6	59.31	74.00	-14.69	1.02	1.00	Horizontal	6.06	Peak
7229.8	49.17	74.00	-24.83	1.99	322.00	Horizontal	10.66	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
2398.8	37.73	54.00	-16.27	1.48	344.00	Vertical	-16.90	Average
2400	35.84	54.00	-18.16	1.48	6.00	Vertical	-16.90	Average
*2409.96	69.78	94.00	-24.22	1.48	315.00	Vertical	-16.90	Average
4820.5	35.24	54.00	-18.76	2.00	232.00	Vertical	-16.90	Average
7229.8	32.62	54.00	-21.38	2.00	312.00	Vertical	-16.90	Average
2398.8	54.63	74.00	-19.37	1.48	344.00	Vertical	-0.11	Peak
2400	52.74	74.00	-21.26	1.48	6.00	Vertical	-0.10	Peak
*2409.96	86.68	114.00	-27.32	1.48	315.00	Vertical	0.01	Peak
4820.5	52.14	74.00	-21.86	2.00	232.00	Vertical	6.04	Peak
7229.8	49.52	74.00	-24.48	2.00	312.00	Vertical	10.66	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Amplifier Gain (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 (14.29%) = -16.90dB, please see 5.1.4.3. #Marginal pass.								

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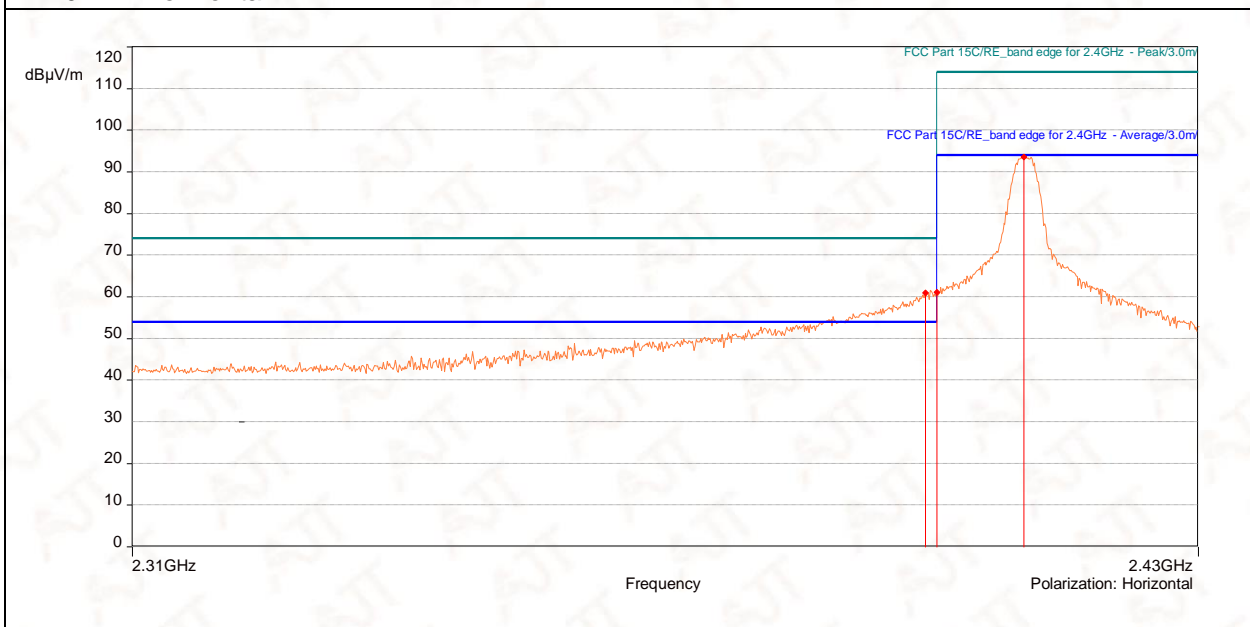
Test Report



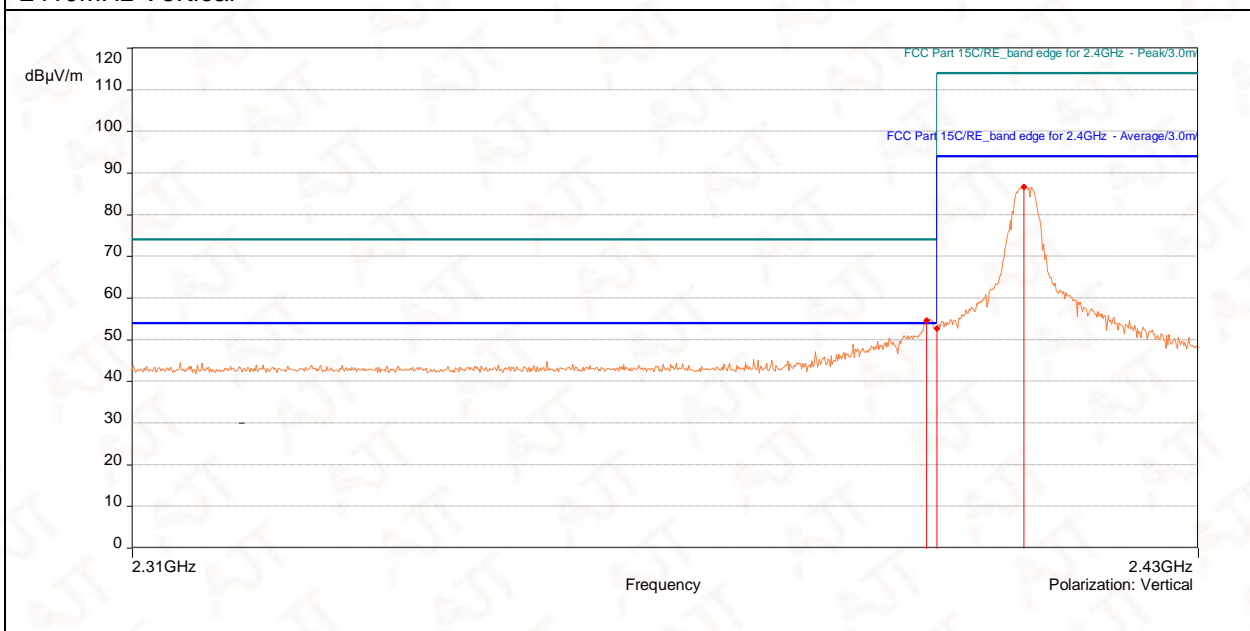
No.: AJT250806025E-1

Band Edge Plot

2410MHz Horizontal



2410MHz Vertical



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Test Report



No.: AJT250806025E-1

Channel	The Middle Channel (2440MHz)	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
*2439.9965	76.56	94.00	-17.44	1.52	161.00	Horizontal	-16.90	Average
4879.9	40.06	54.00	-13.94	2.00	5.00	Horizontal	-16.90	Average
7319.8	34.42	54.00	-19.58	2.00	324.00	Horizontal	-16.90	Average
*2439.9965	93.46	114.00	-20.54	1.52	161.00	Horizontal	-0.13	Peak
4879.9	56.96	74.00	-17.04	2.00	5.00	Horizontal	5.48	Peak
7319.8	51.32	74.00	-22.68	2.00	324.00	Horizontal	10.70	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
*2439.9965	69.18	94.00	-24.82	1.48	309.00	Vertical	-16.90	Average
4879.9	32.01	54.00	-21.99	1.00	72.00	Vertical	-16.90	Average
7320.7	35.90	54.00	-18.10	1.00	317.00	Vertical	-16.90	Average
*2439.9965	86.08	114.00	-27.92	1.48	309.00	Vertical	-0.13	Peak
4879.9	48.91	74.00	-25.09	1.00	72.00	Vertical	5.48	Peak
7320.7	52.80	74.00	-21.20	1.00	317.00	Vertical	10.70	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Amplifier Gain (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 (14.29%) = -16.90dB, please see 5.1.4.3.								

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Test Report



No.: AJT250806025E-1

Channel	The Highest Channel (2470MHz)	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
*2470	76.50	94.00	-17.50	1.50	172.00	Horizontal	-16.90	Average
2483.5	44.17	54.00	-9.83	1.50	3.00	Horizontal	-16.90	Average
2499.85	47.16	54.00	-6.84	1.50	15.00	Horizontal	-16.90	Average
4940.2	38.64	54.00	-15.36	1.98	7.00	Horizontal	-16.90	Average
7409.8	34.08	54.00	-19.92	1.98	347.00	Horizontal	-16.90	Average
*2470	93.40	114.00	-20.60	1.50	172.00	Horizontal	-0.02	Peak
2483.5	61.07	74.00	-12.93	1.50	3.00	Horizontal	-0.09	Peak
2499.85	64.06	74.00	-9.94	1.50	15.00	Horizontal	-0.15	Peak
4940.2	55.54	74.00	-18.46	1.98	7.00	Horizontal	5.74	Peak
7409.8	50.98	74.00	-23.02	1.98	347.00	Horizontal	11.00	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
*2470	71.95	94.00	-22.05	1.50	226.00	Vertical	-16.90	Average
2483.5	37.19	54.00	-16.81	1.50	228.00	Vertical	-16.90	Average
2499.8	38.51	54.00	-15.49	1.50	0.00	Vertical	-16.90	Average
4940.2	34.22	54.00	-19.78	1.00	24.00	Vertical	-16.90	Average
7409.8	34.86	54.00	-19.14	1.00	330.00	Vertical	-16.90	Average
*2470	88.85	114.00	-25.15	1.50	226.00	Vertical	-0.02	Peak
2483.5	54.09	74.00	-19.91	1.50	228.00	Vertical	-0.09	Peak
2499.8	55.41	74.00	-18.59	1.50	0.00	Vertical	-0.15	Peak
4940.2	51.12	74.00	-22.88	1.00	24.00	Vertical	5.74	Peak
7409.8	51.76	74.00	-22.24	1.00	330.00	Vertical	11.00	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Amplifier Gain (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 (14.29%) = -16.90dB, please see 5.1.4.3.								

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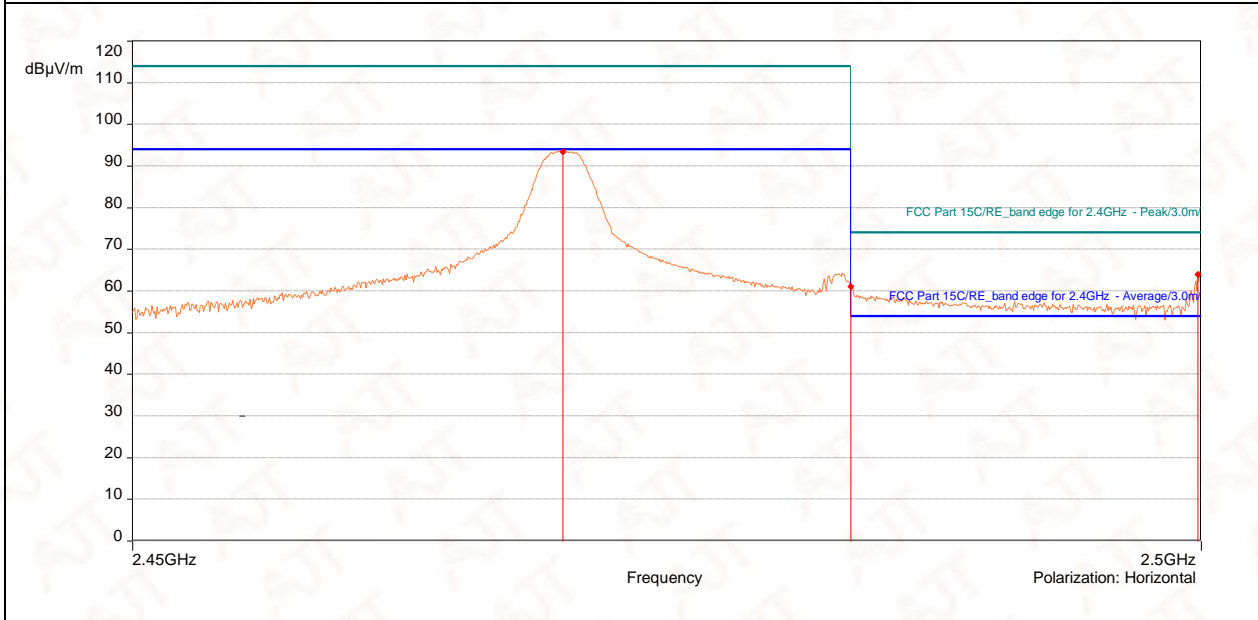
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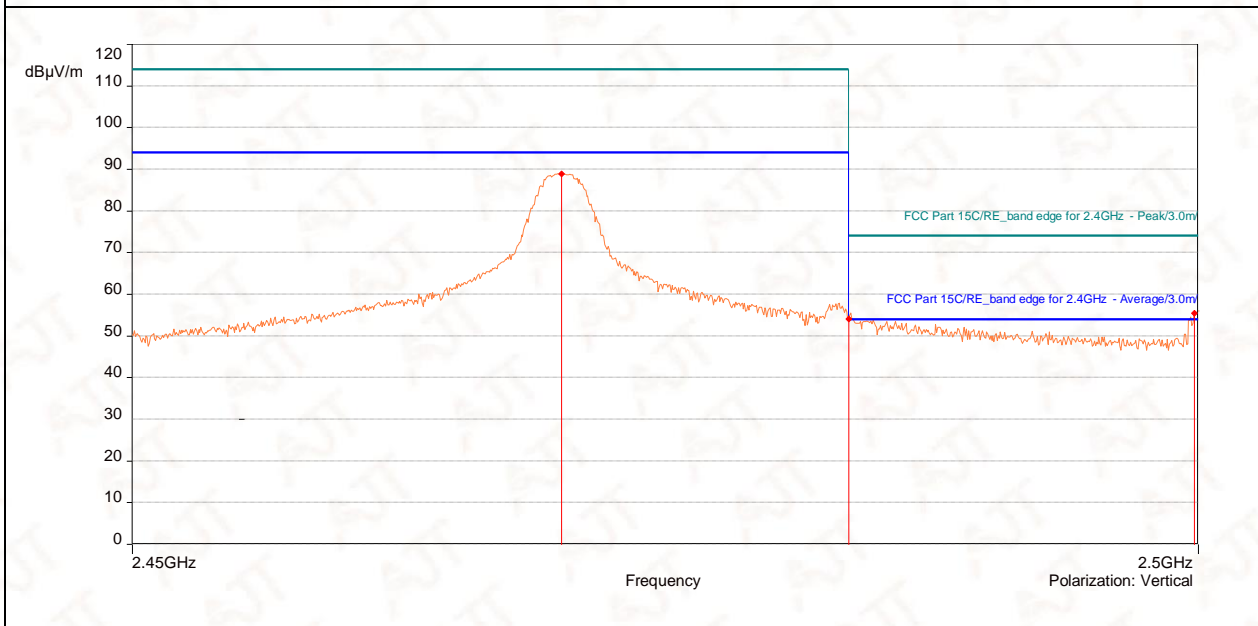
No.: AJT250806025E-1

Band Edge Plot

2470MHz Horizontal



2470MHz Vertical



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Test Report



No.: AJT250806025E-1

5.1.4.3 Calculation of Average Factor

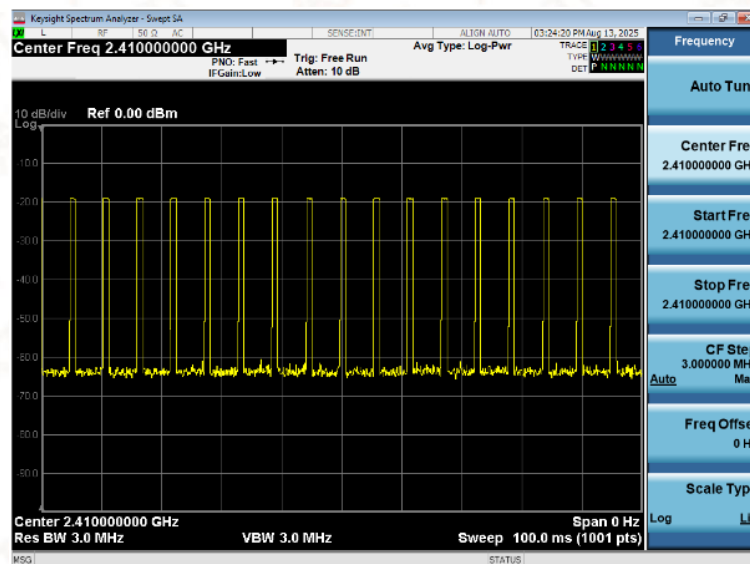
Effective period of the cycle = 0.81ms

The duration of one cycle = 5.67ms

Duty Cycle = 0.81ms / 5.67ms = 14.29%

Averaging factor in dB = 20 log (duty cycle) = 20 log (14.29%) = -16.90dB

100ms Duty Cycle



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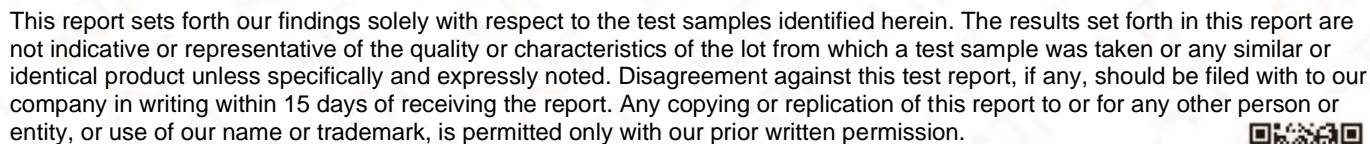
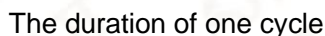
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Ton₁ of one cycle



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Test Report



No.: AJT250806025E-1

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 June 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)	20dB Bandwidth (MHz)
The lowest channel	2410	1.55
The middle channel	2440	1.40
The highest channel	2470	1.24

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Test Report



No.: AJT250806025E-1



2410MHz



2440MHz

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Test Report



No.: AJT250806025E-1



2470MHz

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Page 24 of 28



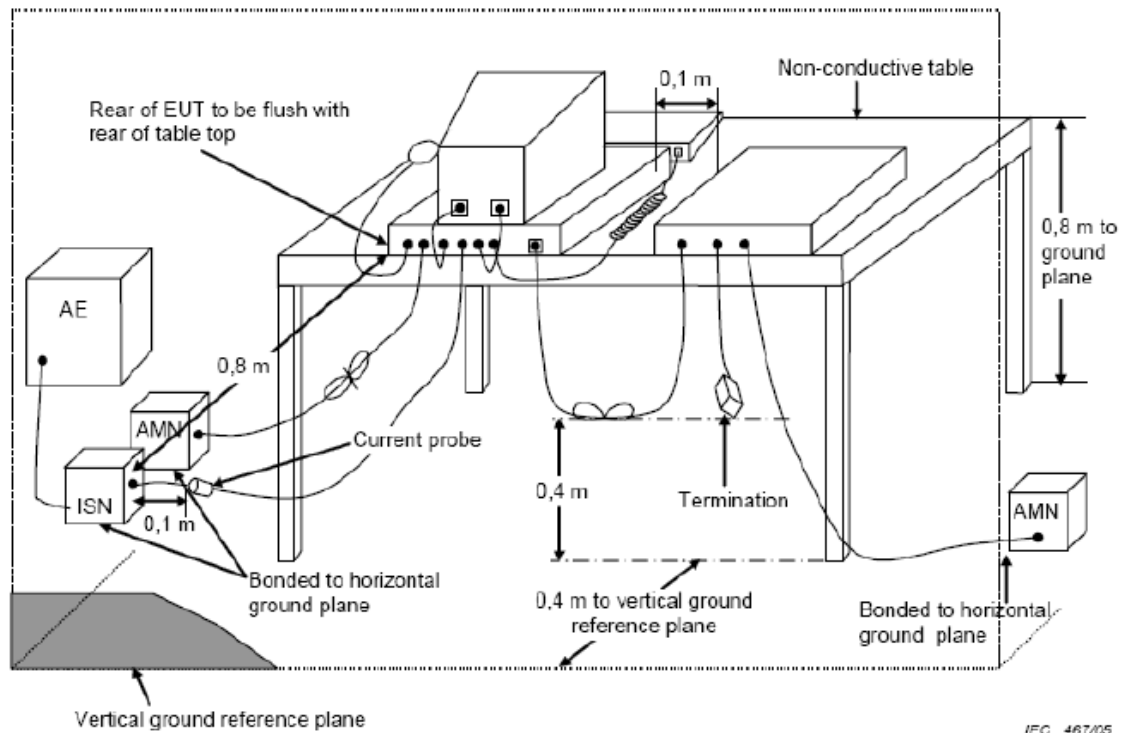
5.3 Conducted Emission (CE)

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 ANSI C63.10-2013 on Conducted Emission Test.

5.3.2 Test Setup



IEC 467/05

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Page 25 of 28





Test Report



No.: AJT250806025E-1

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 June 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 PCB Antenna and no consideration of replacement. The best case gain of the antenna is 0dBi. Antenna location: Refer to Internal Photos.

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Test Report



No.: AJT250806025E-1

6 Test Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	Keysight	N9010A	MY51120099	2025/02/17	2026/02/16
2	JS0806-2 RF Control Unit	Tonscend	JS0806-2	188060124	2025/07/10	2026/07/10
3	Broadband Preamplifier	SCHWARZBECK	BBV 9743B	00067	2025/02/17	2026/02/16
4	Broadband Preamplifier	SCHWARZBECK	BBV 9718B	00002	2025/02/17	2026/02/16
5	EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102452	2025/02/17	2026/02/16
6	Trilog Broadband Antenna	SCHWARZBECK	VULB 9163	01127	2025/03/11	2026/03/10
7	Horn Antenna	SCHWARZBECK	BBHA 9120D	01829	2025/03/11	2026/03/10
8	DC Power Supply	SIGLENT	SPD1168X	SPD1XEAD3 R 0167	2025/02/20	2026/02/09
9	Vector Signal Generator	Keysight	N5172B	MY53052255	2025/02/17	2026/02/16
10	Analog Signal Generator	Keysight	N5171B	MY53051692	2025/02/17	2026/02/16
11	Temperature Humidity Chamber	Yiheng	BPS-50CB	191005684	2025/02/17	2026/02/16
12	Temperature and Humidity Indicator	JianDaRenKe	Cos-03	612058	2025/02/17	2026/02/16
13	BAT-EMC Testing (Test Software)	NEXIO	Version: 3.19.1.20	N/A	N/A	N/A
14	JS1120-3 Test System (Test Software)	Tonscend	JS1120-3	Version: 2.6.88.0341	N/A	N/A
15	Active Loop Antenna	HRTY	HR8913A	69331322060 23	2025/07/18	2026/07/18

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Test Report



No.: AJT250806025E-1

7 Test Photographs

Referring to – “Test Setup Photos of AJT250806025P-3”.

8 Photos of the EUT

Referring to – “External Photos of AJT250806025P-1” and “Internal Photos of AJT250806025P-2”.

END OF TEST REPORT

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Page 28 of 28

