



RF MEASUREMENT REPORT

FCC ID: BRWSPM1002

Applicant: Horizon Hobby, LLC

Product: AS5440 DSMX 5 channel AS3X & SAFE receiver with
Brushed ESC

Model No.: SPM-1002

Brand Name: Spektrum

FCC Classification: Part 15 Low Power Communication Device Transmitter
(DXX)

FCC Rule Part(s): Part 15 Subpart C (Section 15.249)

Result: Complies

Received Date: 2024-03-04

Test Date: 2024-03-13 ~ 2024-03-15

Reviewed By:

Jame Yuan

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2403RSU008-U2	V01	Initial Report	2024-03-29	Valid

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1. General Information

1.1. Applicant

Horizon Hobby, LLC
 2904 Research Rd., Champaign, IL, 61822, United States

1.2. Manufacturer

Horizon Hobby, LLC
 2904 Research Rd., Champaign, IL, 61822, United States

1.3. Testing Facility

<input checked="" type="checkbox"/>	<p>Test Site – MRT Suzhou Laboratory</p> <hr/> <p>Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China</p> <p>Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China</p> <hr/> <p>Laboratory Accreditations</p> <p>A2LA: 3628.01 CNAS: L10551</p> <p>FCC: CN1166 ISED: CN0001</p> <p>VCCI: <input type="checkbox"/>R-20025 <input type="checkbox"/>G-20034 <input type="checkbox"/>C-20020 <input type="checkbox"/>T-20020</p> <p style="padding-left: 100px;"><input type="checkbox"/>R-20141 <input type="checkbox"/>G-20134 <input type="checkbox"/>C-20103 <input type="checkbox"/>T-20104</p>
<input type="checkbox"/>	<p>Test Site – MRT Shenzhen Laboratory</p> <hr/> <p>Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China</p> <hr/> <p>Laboratory Accreditations</p> <p>A2LA: 3628.02 CNAS: L10551</p> <p>FCC: CN1284 ISED: CN0105</p>
<input type="checkbox"/>	<p>Test Site – MRT Taiwan Laboratory</p> <hr/> <p>Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)</p> <hr/> <p>Laboratory Accreditations</p> <p>TAF: 3261</p> <p>FCC: 291082, TW3261 ISED: TW3261</p>

1.4. Product Information

Product	AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC
Model No.	SPM-1002
Brand Name	Spektrum
EUT Identification No.	20240304Sample#10
Wireless Specification	DSM2: 2402~2478MHz DSMX: 2404~2476MHz
Antenna Information	Refer to section 1.5
Operating Temperature	0~50°C
Power Type	By Rechargeable Li-Polymer Battery (150mAh 3.7V)
<p>Note: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.</p>	

1.5. Radio Specification

Frequency Range	DSM2: 2402~2478MHz DSMX: 2404~2476MHz
Channel No.	23
Type of modulation	GFSK
Antenna Type	PCB Antenna
Antenna Gain	0.72 dBi

1.6. Working Frequencies

DSM2:

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2405 MHz	02	2409 MHz
03	2412 MHz	04	2416 MHz	05	2419 MHz
06	2423 MHz	07	2426 MHz	08	2430 MHz
09	2433 MHz	10	2437 MHz	11	2440 MHz
12	2444 MHz	13	2447 MHz	14	2451 MHz
15	2454 MHz	16	2458 MHz	17	2461 MHz
18	2465 MHz	19	2468 MHz	20	2472 MHz
21	2475 MHz	22	2478 MHz	--	--

DSMX:

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2404 MHz	01	2407 MHz	02	2411 MHz
03	2414 MHz	04	2417 MHz	05	2420 MHz
06	2424 MHz	07	2427 MHz	08	2430 MHz
09	2433 MHz	10	2437 MHz	11	2440 MHz
12	2443 MHz	13	2446 MHz	14	2450 MHz
15	2453 MHz	16	2456 MHz	17	2459 MHz
18	2463 MHz	19	2466 MHz	20	2469 MHz
21	2473 MHz	22	2476 MHz	--	--

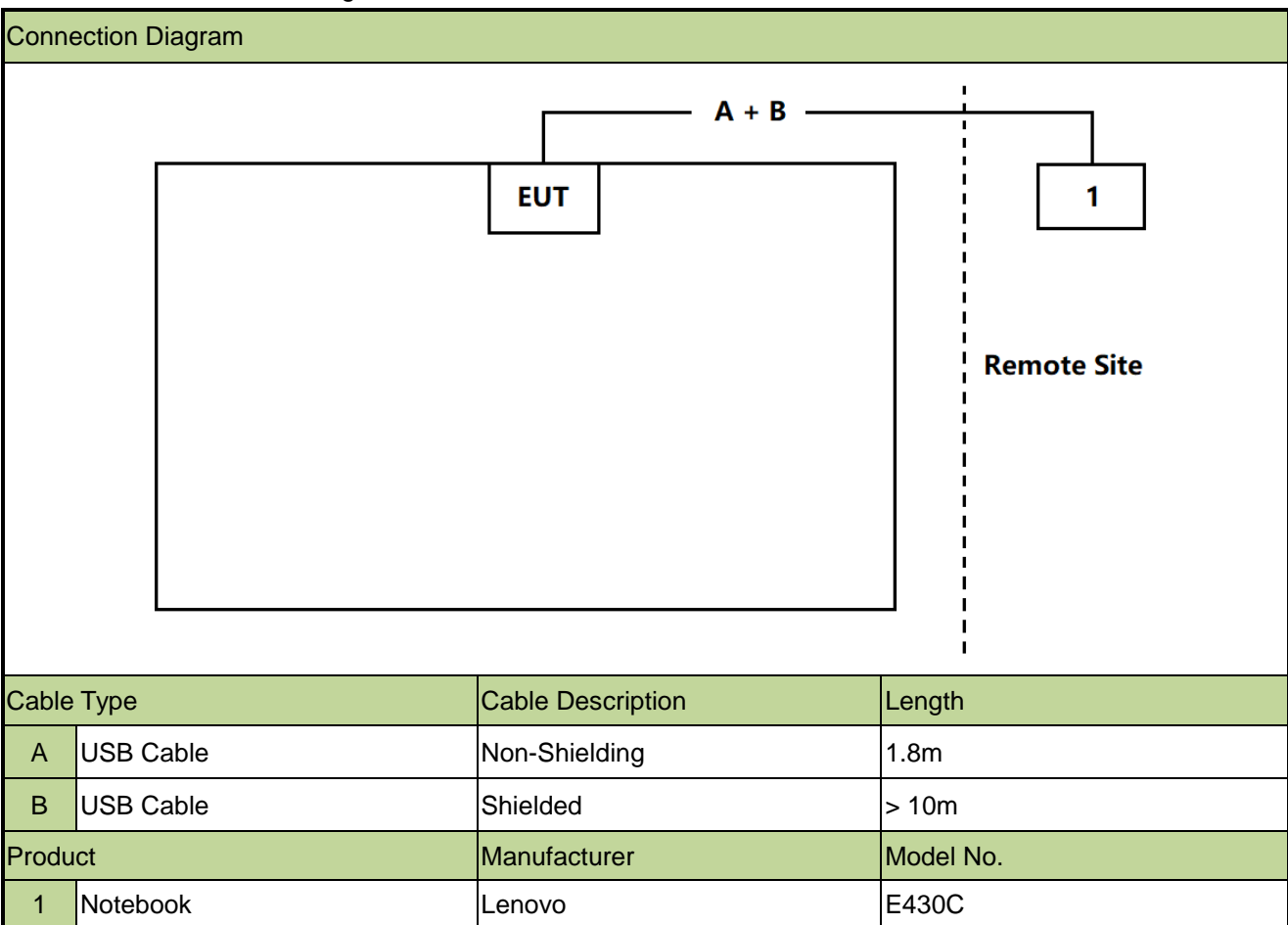
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by DSM2.
Mode 2: Transmit by DSMX.

2.2. Test Configuration

This device was tested per the guidance ANSI C63.10:2013 was used to reference the appropriate EUT setup for radiated emissions testing.



2.3. Test Software

The test utility software used during testing was “RF Compliance Mode Setup”, and the version was “4.1”.

2.4. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.249
- ANSI C63.10-2013

2.5. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 shall be considered sufficient to comply with the provisions of this section.”

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

This unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2024-05-23	WZ-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2024-10-23	WZ-AC2
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2024-12-04	WZ-AC2
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2024-05-15	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2024-10-11	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2024-11-04	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2024-05-07	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2025-01-11	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2024-11-07	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2024-04-20	WZ-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE07027	1 year	2024-10-23	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2024-05-31	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5

Software	Version	Function
EMI V3	V 3.0.0	EMI Test Software
Controller_MF 7802	1.02	RE Antenna & turntable

5. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Radiated Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
Coaxial:	9kHz~30MHz: 2.61dB
Coplanar:	9kHz~30MHz: 2.62dB
Horizontal:	30MHz~200MHz: 3.79dB
	200MHz~1GHz: 3.91dB
	1GHz~40GHz: 4.99dB
Vertical:	30MHz~200MHz: 4.06dB
	200MHz~1GHz: 5.21dB
	1GHz~40GHz: 4.90dB
Occupied Bandwidth	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$):	
2.7%	

6. Test Result

6.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Verdict
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	N/A
15.209 15.249	General Field Strength Limits (Fundamental and Radiated Emission Limits)	Radiated	Pass
15.215(c)	20dB Bandwidth	Conducted	Pass

Notes:

1. The radiation measurements are performed in X, Y, Z axis positioning. The test results shown in the following sections represent the worst-case emissions.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
3. "N/A" means that this item is not applicable, and the detail information refer to relevant section.

6.2. AC Conducted Emissions Measurement

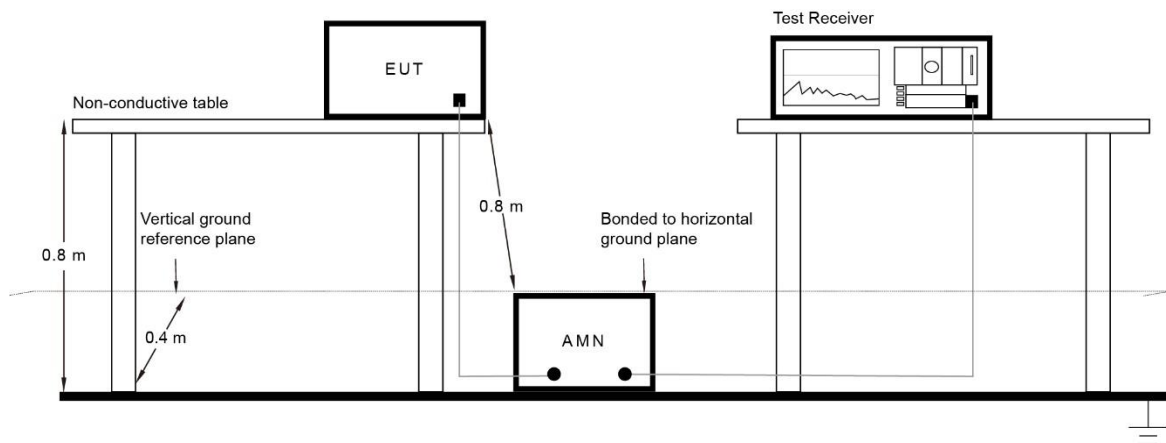
6.2.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	Average (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.2.2. Test Setup



6.2.3. Test Result

The EUT is powered by battery, so this item is not applicable.

6.3. Fundamental & Radiated Spurious Emission Measurement

6.3.1. Test Limit

The field strength of fundamental and harmonic emissions measured at 3 m shall not exceed the limits shown in Table per Section 15.249.

FCC Part 15 Subpart C Paragraph 15.249		
Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (μ V/m)
902 ~ 928	50	500
2400 ~ 2483.5	50	500
5725 ~ 5875	50	500
24000 ~ 24250	250	2500

All out of band emissions must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Field Strength (μ V/m)	Measurement Distance (m)
0.009 ~ 0.490	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: 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 §15.209, whichever is the lesser attenuation.

6.3.2. Test Procedure

ANSI C63.10-2013 Section 6.3 (General Requirements)

ANSI C63.10-2013 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10-2013 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10-2013 Section 6.6 (Standard test method above 1GHz)

6.3.3. Test Setting

Measurement of harmonic and spurious emissions below 40 GHz

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3 x RBW
4. Detector = Peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

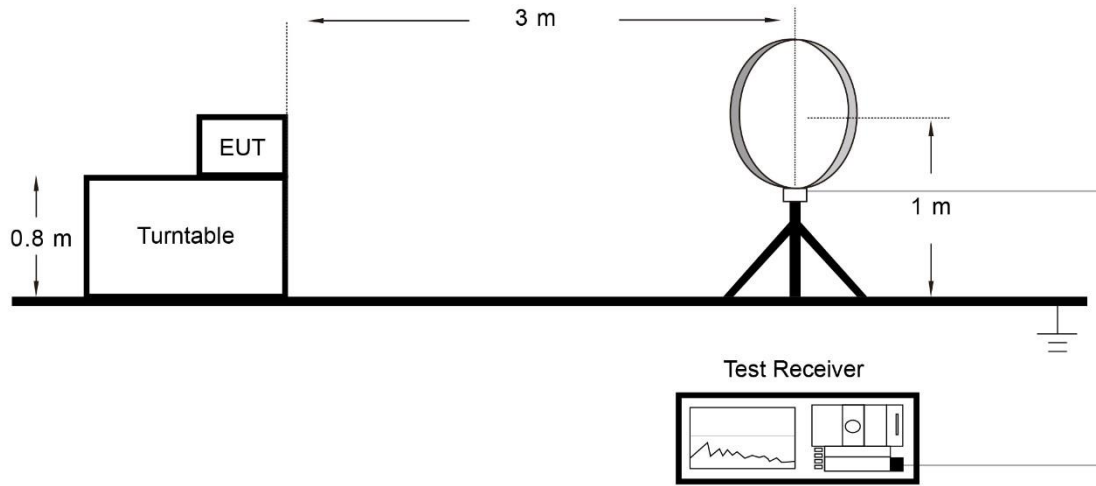
Frequency	RBW
9 ~ 150 kHz	200 Hz
0.15 ~ 30 MHz	9 kHz
30 ~ 1000 MHz	120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

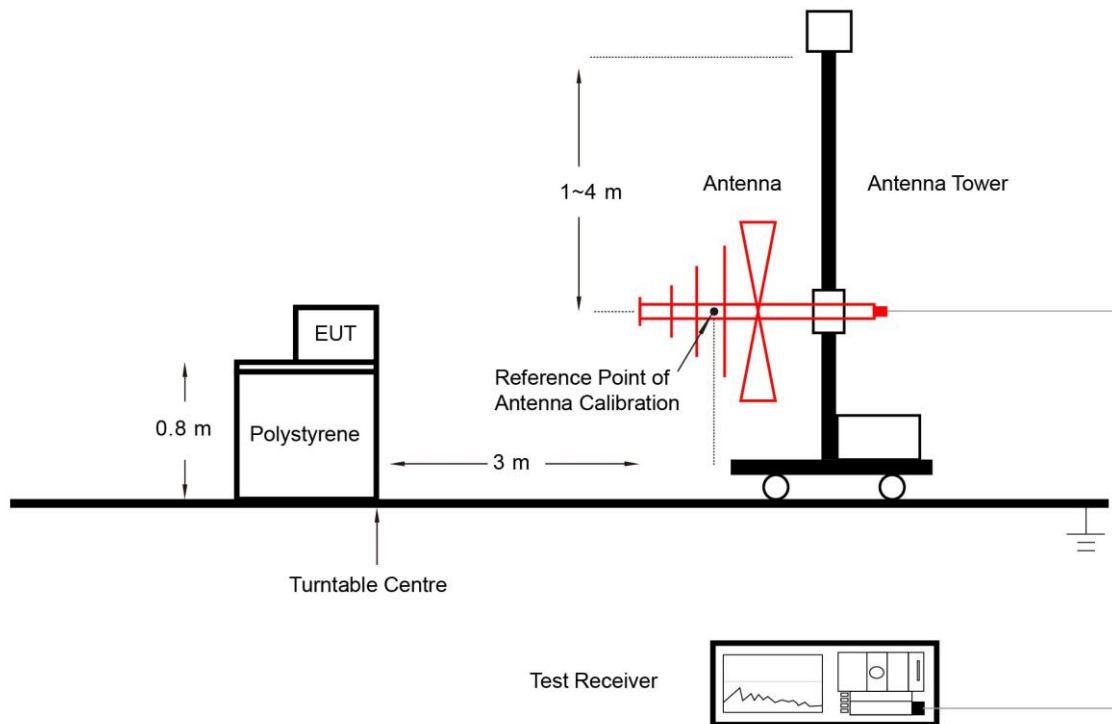
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. Set the VBW $\geq 3 \times$ RBW
4. Detector function = Average
5. Sweep time \geq (number of points in sweep) \times (transmission symbol period)
6. Trace mode = Max Hold
7. Allow max hold to run for suitable traces until the trace tend to stabilize.

6.3.4. Test Setup

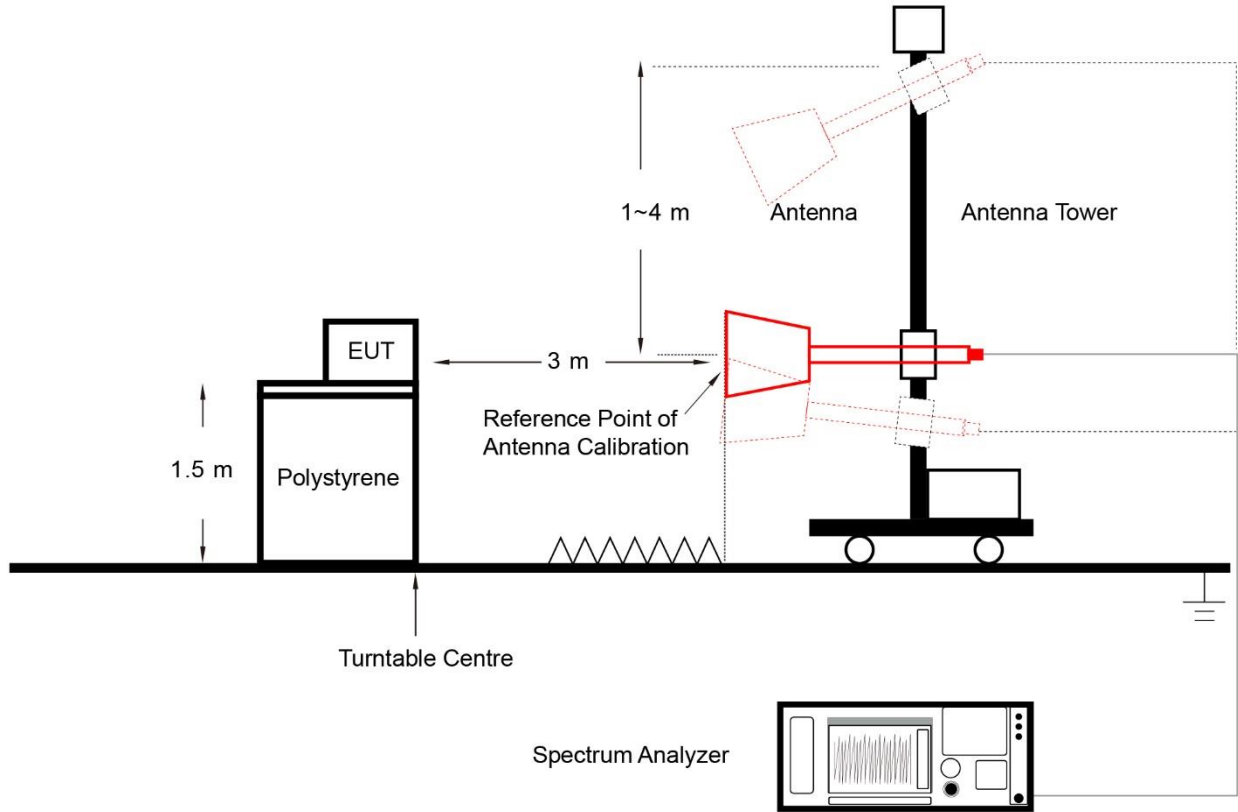
Below 30MHz Test Setup:



Below 1GHz Test Setup:



1GHz ~ 40GHz Test Setup:



6.3.5. Test Result

Refer to Appendix A.1.

6.4. Radiated Restricted Band Edge Measurement

6.4.1. Test Limit

All out of band emissions must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [$\mu\text{V}/\text{m}$]	Measured Distance [Meter]
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: 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 §15.209, whichever is the lesser attenuation.

6.4.2. Test Procedure

ANSI C63.10-2013 Section 6.3 (General Requirements)

ANSI C63.10-2013 Section 6.6 (Standard test method above 1GHz)

ANSI C63.10-2013 Section 6.10 (Band-edge testing)

6.4.3. Test Setting

Peak Field Strength Measurements

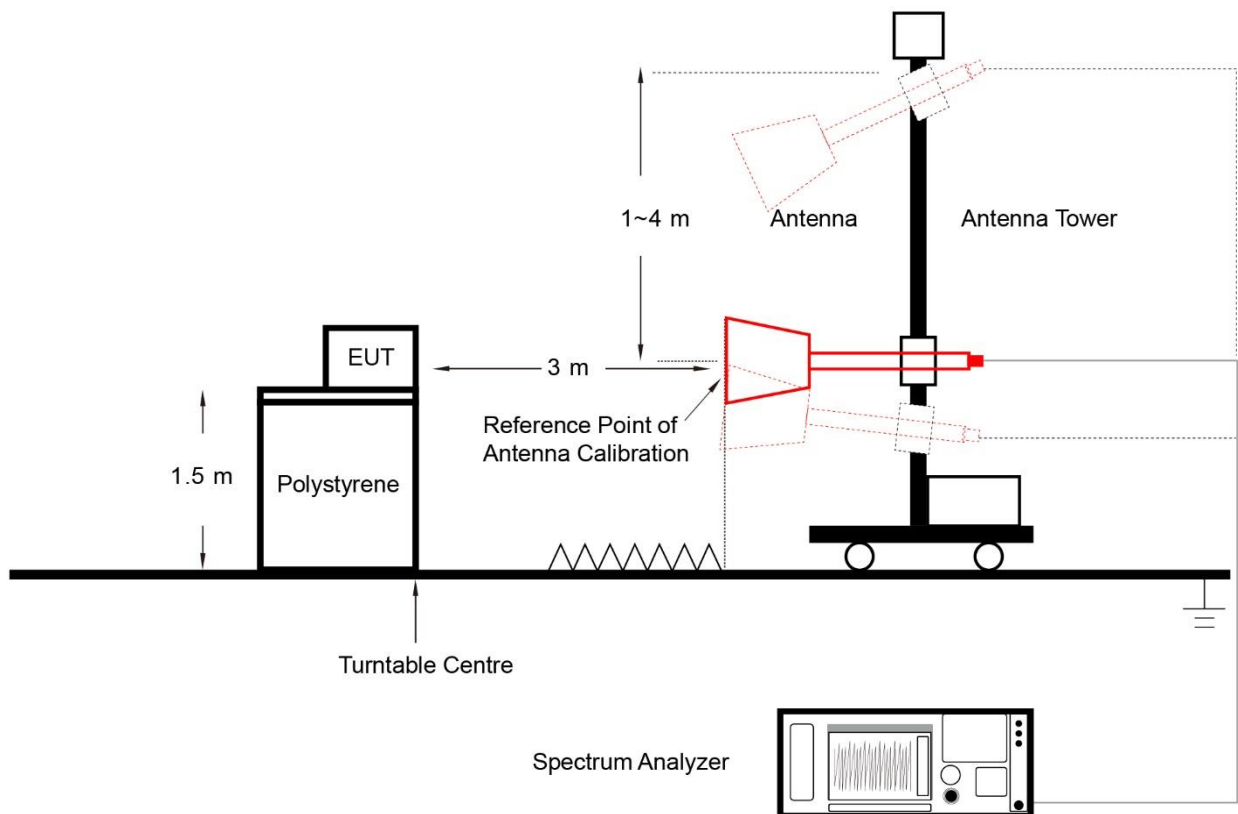
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz

4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. Set the VBW $\geq 3 \times$ RBW
4. Detector function = Average
5. Sweep time \geq (number of points in sweep) \times (transmission symbol period)
6. Trace mode = Max Hold
7. Allow max hold to run for suitable traces until the trace tend to stabilize.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.2.

6.5. 20dB Bandwidth Measurement

6.5.1. Test Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission in the specific band.

6.5.2. Test Procedure

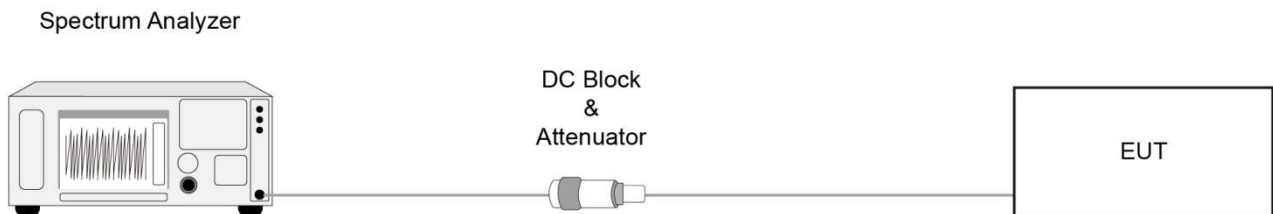
ANSI C63.10-2013 Clause 6.9.2

6.5.3. Test Setting

20dB Bandwidth

1. The analyzers' automatic bandwidth measurement capability was used to perform the 20dB bandwidth
2. Spectrum analyzer frequency is set to the nominal EUT channel center frequency.
3. The frequency span for the spectrum analyzer shall be between 2.0 times and 5.0 times the OBW
4. Set RBW = 1% ~ 5% of the OBW
5. VBW $\geq 3 \times$ RBW
6. Detector = Peak
7. Trace mode = max hold
8. Sweep = auto couple
9. Allow the trace to stabilize
10. Measure the maximum width of the emission that is 20 dB down from the maximum of the emission.

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.3.

Appendix A - Test Result

A.1 Fundamental & Radiated Emission Test Result

Test Site	WZ-AC2	Test Date	2024-03-13 ~ 2024-03-14
Test Engineer	Bob Zhang	Test Mode	Mode 1

Frequency Band (MHz)	Reading Level (dB μ V)	Factor (dB/m)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Result
Fundamental Radiated Emission (Horizontal)							
2402	64.780	31.784	96.564	114.000	-17.436	Peak	Pass
	54.269	31.785	86.054	94.000	-7.946	Average	Pass
2440	64.217	31.716	95.933	114.000	-18.067	Peak	Pass
	53.433	31.716	85.149	94.000	-8.851	Average	Pass
2478	63.659	31.700	95.359	114.000	-18.641	Peak	Pass
	51.918	31.700	83.618	94.000	-10.382	Average	Pass
Fundamental Radiated Emission (Vertical)							
2402	61.777	31.786	93.563	114.000	-20.437	Peak	Pass
	50.094	31.785	81.879	94.000	-12.121	Average	Pass
2440	62.285	31.716	94.001	114.000	-19.999	Peak	Pass
	51.244	31.716	82.960	94.000	-11.040	Average	Pass
2478	58.897	31.700	90.597	114.000	-23.403	Peak	Pass
	49.132	31.700	80.832	94.000	-13.168	Average	Pass
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)							

Test Site	WZ-AC2	Test Engineer	Bob Zhang
Test Date	2024-03-14	Test Mode	Mode 1
Remark	Average measurement was not performed if peak level lower than average limit.		

Test Freq. (MHz)	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Between 1GHz ~ 18GHz								
2402	4808.0	47.0	2.9	49.9	74.0	-24.1	Peak	Horizontal
	8208.0	33.2	11.3	44.5	74.0	-29.5	Peak	Horizontal
	11735.5	30.9	17.7	48.6	74.0	-25.4	Peak	Horizontal
	4808.0	47.9	2.9	50.8	74.0	-23.2	Peak	Vertical
	11276.5	29.2	17.0	46.2	74.0	-27.8	Peak	Vertical
	11846.0	29.7	17.1	46.8	74.0	-27.2	Peak	Vertical
2440	4876.0	48.7	3.0	51.7	74.0	-22.3	Peak	Horizontal
	4876.0	45.9	3.0	48.9	54.0	-5.1	Average	Horizontal
	11310.5	32.0	17.3	49.3	74.0	-24.7	Peak	Horizontal
	12245.5	30.7	17.6	48.3	74.0	-25.7	Peak	Horizontal
	4876.0	48.3	3.0	51.3	74.0	-22.7	Peak	Vertical
	4876.0	43.1	3.0	46.1	54.0	-7.9	Average	Vertical
	7315.5	36.3	11.5	47.8	74.0	-26.2	Peak	Vertical
11616.5	31.0	17.4	48.4	74.0	-25.6	Peak	Vertical	
2478	4952.5	47.7	3.1	50.8	74.0	-23.2	Peak	Horizontal
	7485.5	32.9	12.0	44.9	74.0	-29.1	Peak	Horizontal
	11548.5	30.0	17.7	47.7	74.0	-26.3	Peak	Horizontal
	4952.5	47.0	3.1	50.1	74.0	-23.9	Peak	Vertical
	7434.5	35.1	11.9	47.0	74.0	-27.0	Peak	Vertical
	11735.5	29.9	17.7	47.6	74.0	-26.4	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Test Site	WZ-AC2	Test Date	2024-03-13~2024-03-14
Test Engineer	Bob Zhang	Test Mode	Mode 2

Frequency Band (MHz)	Reading Level (dB μ V)	Factor (dB/m)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Result
Fundamental Radiated Emission (Horizontal)							
2404	62.373	31.778	94.151	114.000	-19.849	Peak	Pass
	52.845	31.778	84.623	94.000	-9.377	Average	Pass
2440	64.340	31.716	96.056	114.000	-17.944	Peak	Pass
	52.830	31.716	84.546	94.000	-9.454	Average	Pass
2476	63.965	31.701	95.666	114.000	-18.334	Peak	Pass
	52.360	31.701	84.061	94.000	-9.939	Average	Pass
Fundamental Radiated Emission (Vertical)							
2404	61.841	31.776	93.617	114.000	-20.383	Peak	Pass
	51.574	31.777	83.351	94.000	-10.649	Average	Pass
2440	62.360	31.715	94.075	114.000	-19.925	Peak	Pass
	51.266	31.716	82.982	94.000	-11.018	Average	Pass
2476	61.751	31.701	93.452	114.000	-20.548	Peak	Pass
	50.139	31.701	81.840	94.000	-12.160	Average	Pass
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)							

Test Site	WZ-AC2	Test Engineer	Bob Zhang
Test Date	2024-03-14	Test Mode	Mode 2
Remark	Average measurement was not performed if peak level lower than average limit.		

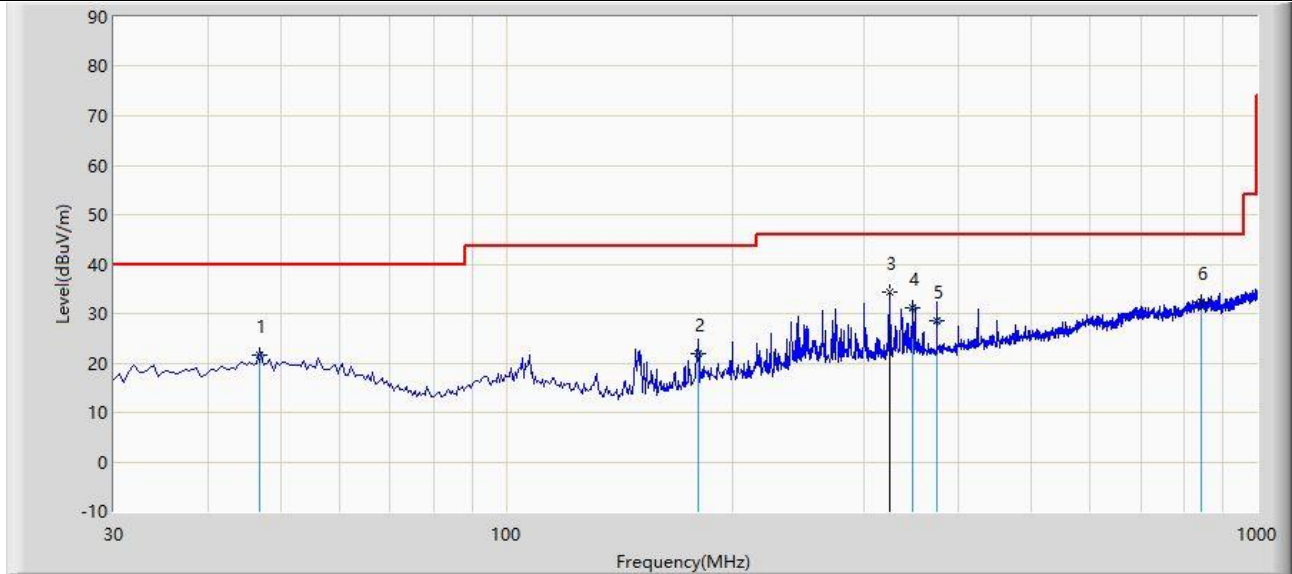
Test Freq. (MHz)	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Between 1GHz ~ 18GHz								
2404	4808.0	50.2	2.9	53.1	74.0	-20.9	Peak	Horizontal
	4808.0	43.5	2.9	46.4	54.0	-7.6	Average	Horizontal
	8463.0	32.7	11.7	44.4	74.0	-29.6	Peak	Horizontal
	11276.5	30.5	17.0	47.5	74.0	-26.5	Peak	Horizontal
	4808.0	49.9	2.9	52.8	74.0	-21.2	Peak	Vertical
	4808.0	42.2	2.9	45.1	54.0	-8.9	Average	Vertical
	11166.0	31.1	17.0	48.1	74.0	-25.9	Peak	Vertical
	11812.0	30.0	17.7	47.7	74.0	-26.3	Peak	Vertical
2440	4876.0	49.5	3.0	52.5	74.0	-21.5	Peak	Horizontal
	4876.0	43.3	3.0	46.3	54.0	-7.7	Average	Horizontal
	8174.0	32.1	11.5	43.6	74.0	-30.4	Peak	Horizontal
	11327.5	29.7	17.4	47.1	74.0	-26.9	Peak	Horizontal
	4876.0	48.2	3.0	51.2	74.0	-22.8	Peak	Vertical
	4876.0	43.2	3.0	46.2	54.0	-7.8	Average	Vertical
	7315.5	36.5	11.5	48.0	74.0	-26.0	Peak	Vertical
	11506.0	30.6	17.4	48.0	74.0	-26.0	Peak	Vertical
2476	4952.5	47.1	3.1	50.2	74.0	-23.8	Peak	Horizontal
	11472.0	30.2	17.5	47.7	74.0	-26.3	Peak	Horizontal
	12296.5	31.1	17.6	48.7	74.0	-25.3	Peak	Horizontal
	4952.5	46.4	3.1	49.5	74.0	-24.5	Peak	Vertical
	7426.0	34.4	11.8	46.2	74.0	-27.8	Peak	Vertical
	11251.0	31.8	17.2	49.0	74.0	-25.0	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

The Result of Radiated Emission below 1GHz:

Site: WZ-AC2	Test Date: 2024-03-13
Limit: FCC_Part15.209_RSE(3m)	Engineer: Bob Zhang
Probe: VULB9162_30-7000MHz	Polarity: Horizontal
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSM2 at 2402MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		46.975	21.678	1.200	-18.322	40.000	20.478	QP
2		180.320	21.914	5.100	-21.586	43.500	16.814	QP
3	*	324.880	34.349	12.611	-11.651	46.000	21.738	PK
4		347.675	31.286	8.500	-14.714	46.000	22.786	QP
5		374.835	28.644	5.900	-17.356	46.000	22.743	QP
6		842.375	32.420	1.200	-13.580	46.000	31.220	QP

Note 1: " * ", means this data is the worst emission level.

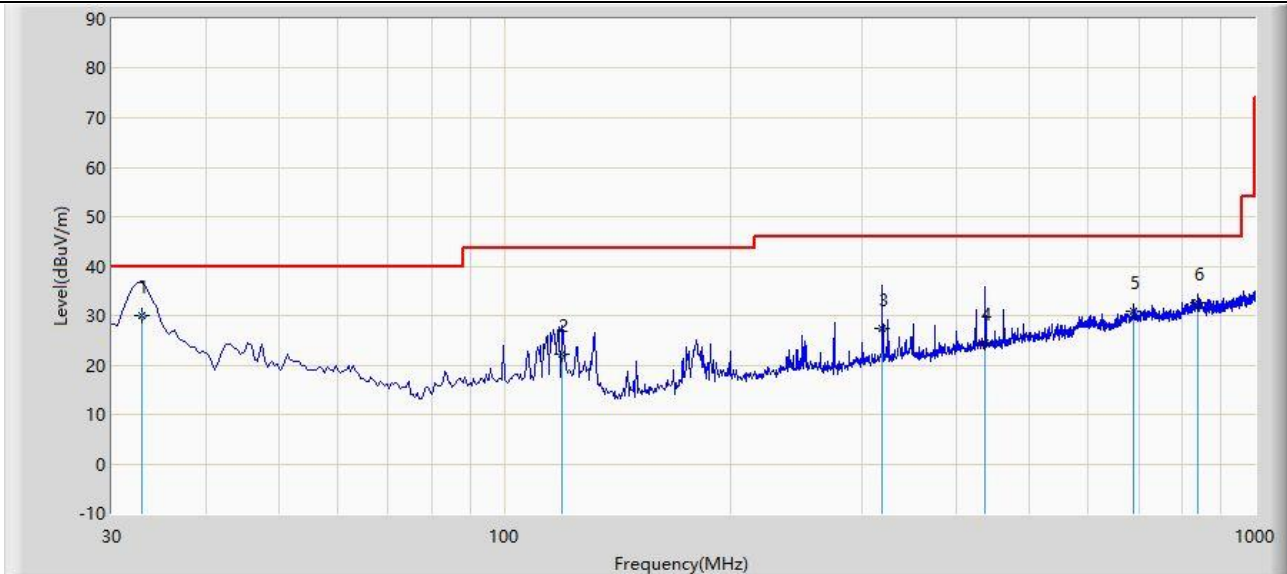
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: WZ-AC2	Test Date: 2024-03-13
Limit: FCC_Part15.209_RSE(3m)	Engineer: Bob Zhang
Probe: VULB9162_30-7000MHz	Polarity: Vertical
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSM2 at 2402MHz	



No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	32.910	30.041	12.900	-9.959	40.000	17.141	QP
2		119.240	22.043	5.200	-21.457	43.500	16.843	QP
3		319.060	27.383	5.900	-18.617	46.000	21.483	QP
4		437.400	24.448	0.500	-21.552	46.000	23.948	QP
5		689.600	30.828	2.100	-15.172	46.000	28.728	QP
6		839.950	32.547	1.500	-13.453	46.000	31.047	QP

Note 1: " * ", means this data is the worst emission level.

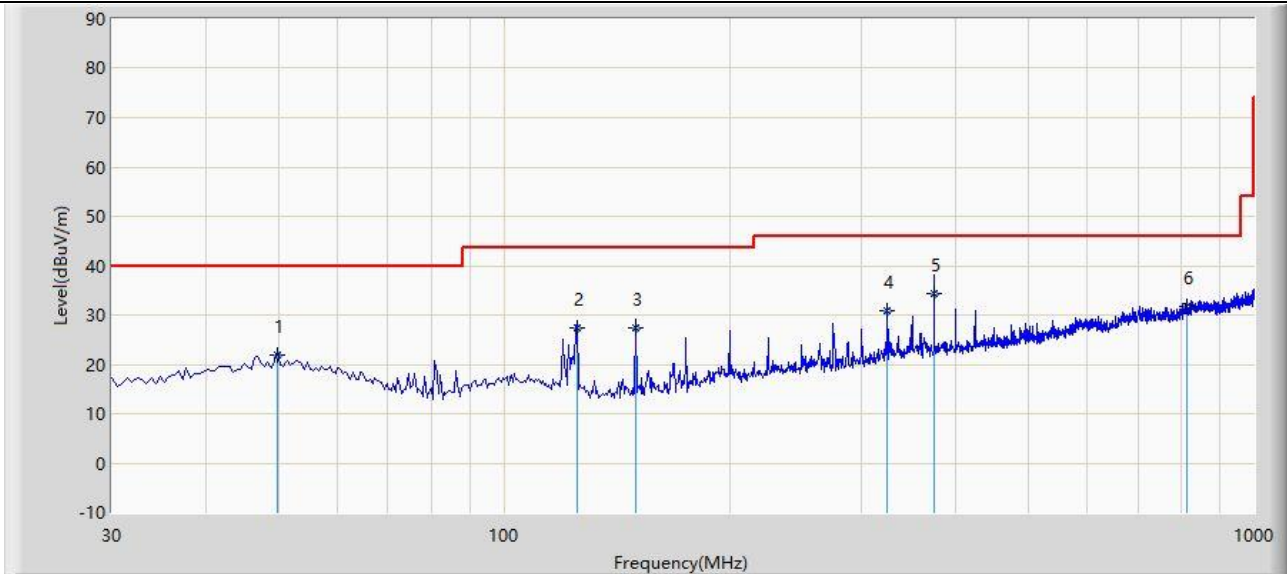
Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: WZ-AC2	Test Date: 2024-03-15
Limit: FCC_Part15.209_RSE(3m)	Engineer: Bob Zhang
Probe: VULB9162_30-7000MHz	Polarity: Horizontal
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSMX at 2440MHz	



No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		49.885	21.833	1.300	-18.167	40.000	20.534	QP
2		125.060	27.380	11.300	-16.120	43.500	16.080	QP
3		149.795	27.471	12.300	-16.029	43.500	15.171	QP
4		324.880	30.838	9.100	-15.162	46.000	21.738	QP
5	*	374.835	34.344	11.600	-11.656	46.000	22.743	QP
6		813.760	31.823	1.200	-14.177	46.000	30.623	QP

Note 1: " * ", means this data is the worst emission level.

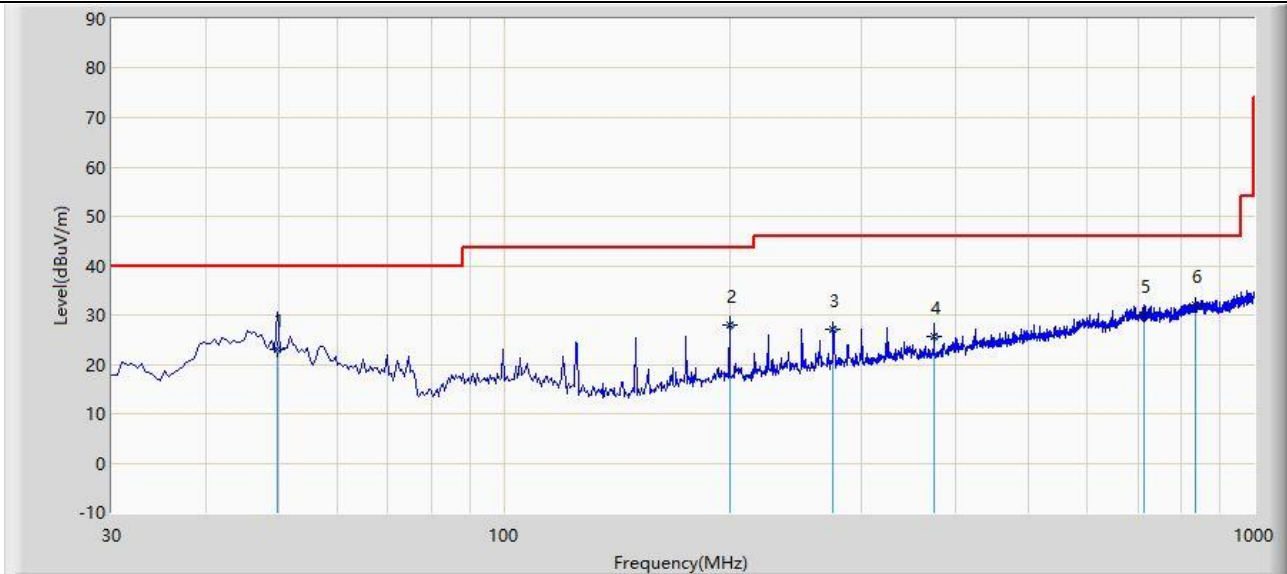
Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: WZ-AC2	Test Date: 2024-03-15
Limit: FCC_Part15.209_RSE(3m)	Engineer: Bob Zhang
Probe: VULB9162_30-7000MHz	Polarity: Vertical
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSMX at 2440MHz	



No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		49.885	22.933	2.400	-17.067	40.000	20.534	QP
2		199.750	28.087	9.400	-15.413	43.500	18.687	QP
3		274.925	27.131	6.800	-18.869	46.000	20.331	QP
4		374.800	25.643	2.900	-20.357	46.000	22.742	QP
5		713.850	29.857	1.200	-16.143	46.000	28.657	QP
6	*	836.070	32.147	1.200	-13.853	46.000	30.947	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

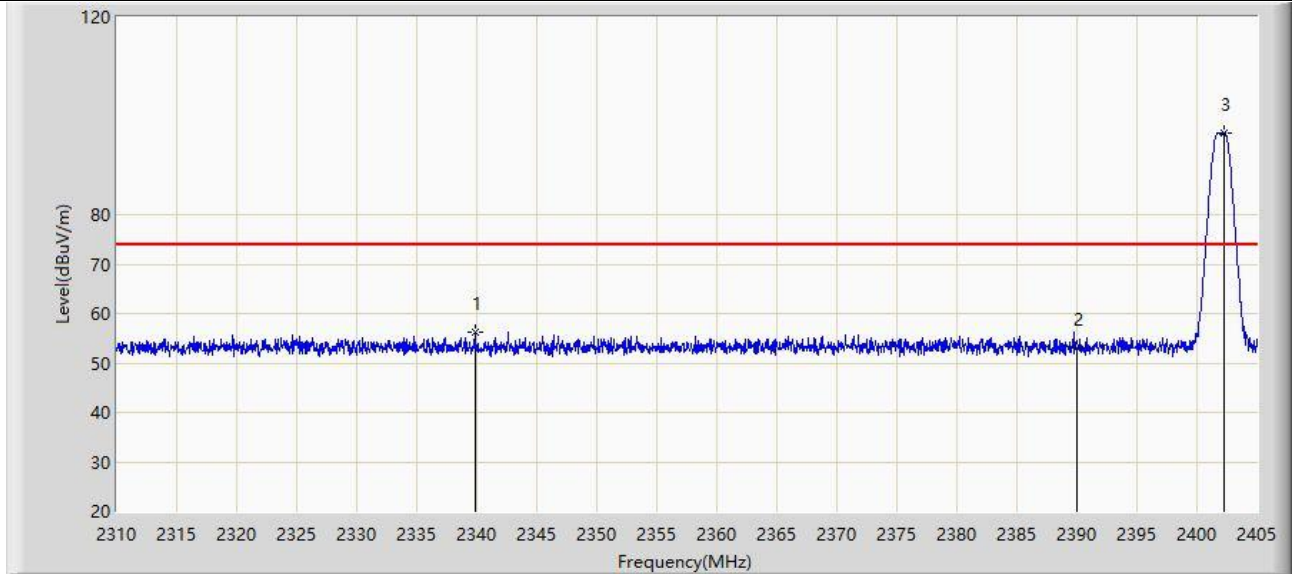
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

A.2 Radiated Restricted Band Edge Test Result

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSM2 at 2402MHz	



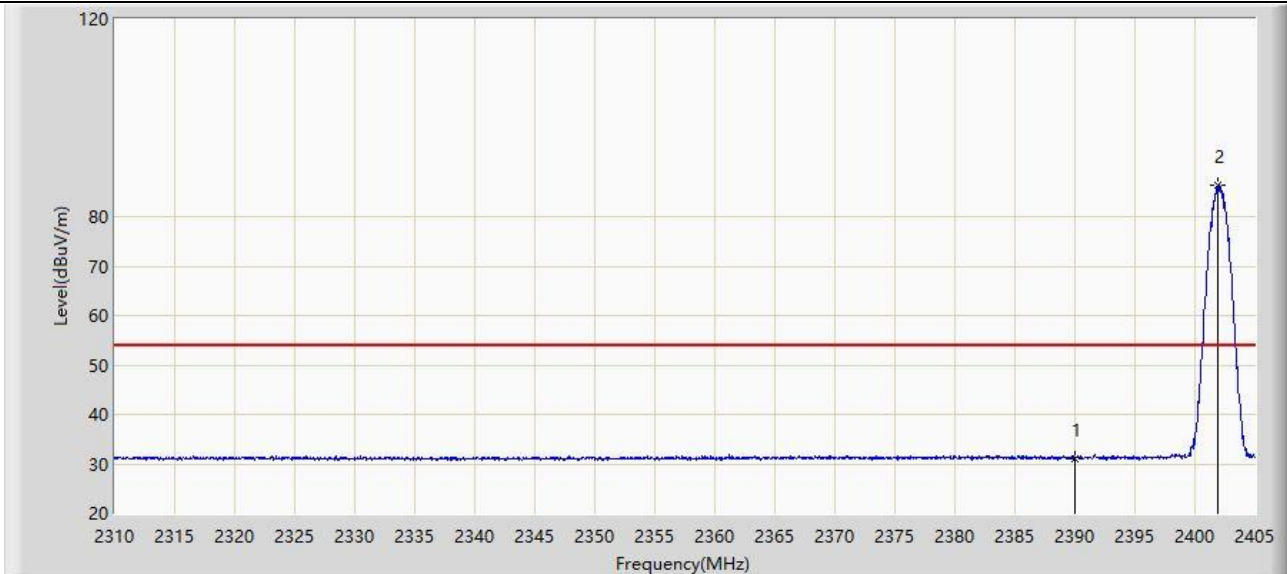
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2339.830	56.221	24.247	-17.779	74.000	31.974	PK
2		2390.000	52.944	21.091	-21.056	74.000	31.853	PK
3		2402.245	96.585	64.801	N/A	N/A	31.784	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSM2 at 2402MHz	



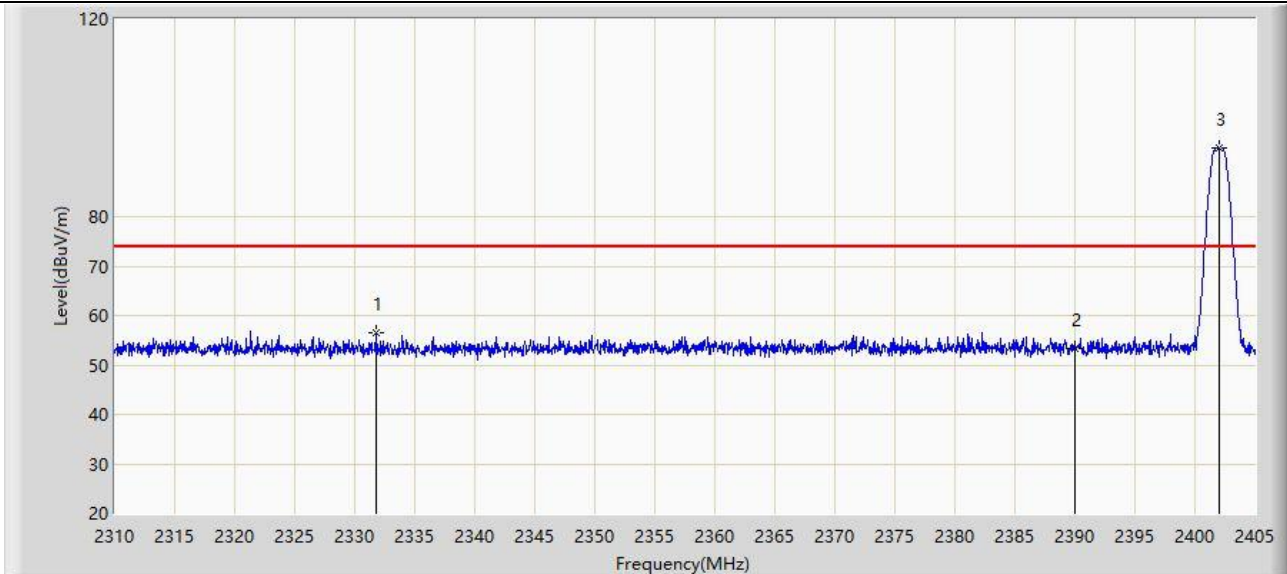
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	30.994	-0.859	-23.006	54.000	31.853	AV
2		2401.960	86.397	54.612	N/A	N/A	31.785	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSM2 at 2402MHz	



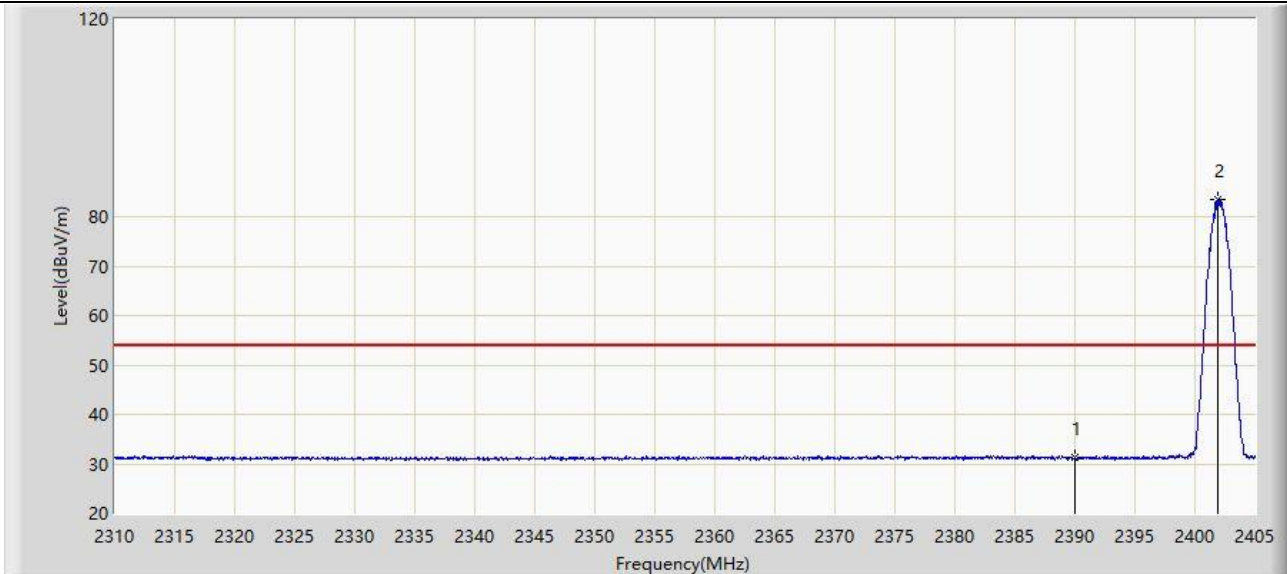
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2331.755	56.408	24.412	-17.592	74.000	31.996	PK
2		2390.000	53.303	21.450	-20.697	74.000	31.853	PK
3		2402.008	93.886	62.101	N/A	N/A	31.785	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSM2 at 2402MHz	



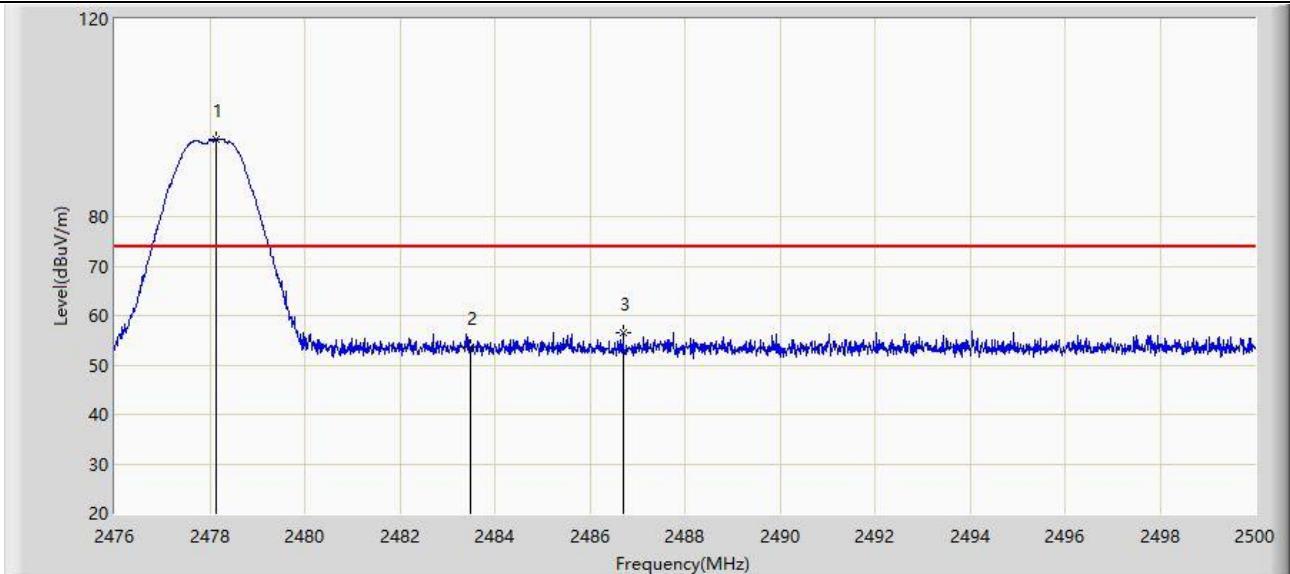
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	31.245	-0.608	-22.755	54.000	31.853	AV
2		2401.913	83.574	51.789	N/A	N/A	31.785	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSM2 at 2478MHz	



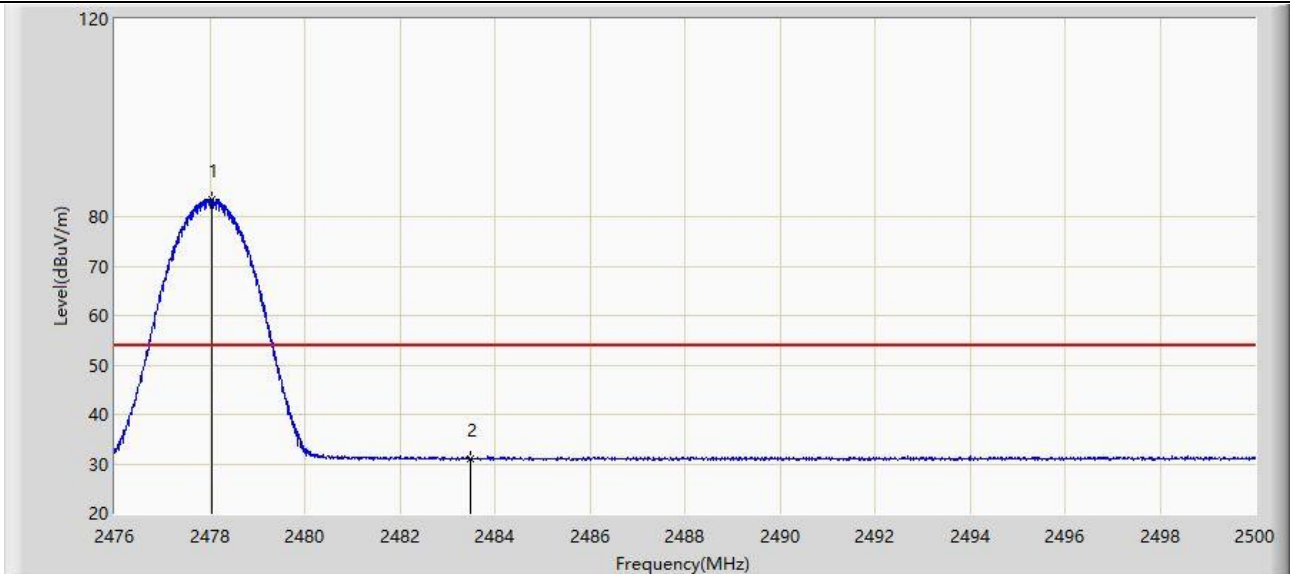
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2478.148	95.631	63.931	N/A	N/A	31.700	PK
2		2483.500	53.593	21.896	-20.407	74.000	31.696	PK
3	*	2486.704	56.414	24.719	-17.586	74.000	31.695	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSM2 at 2478MHz	



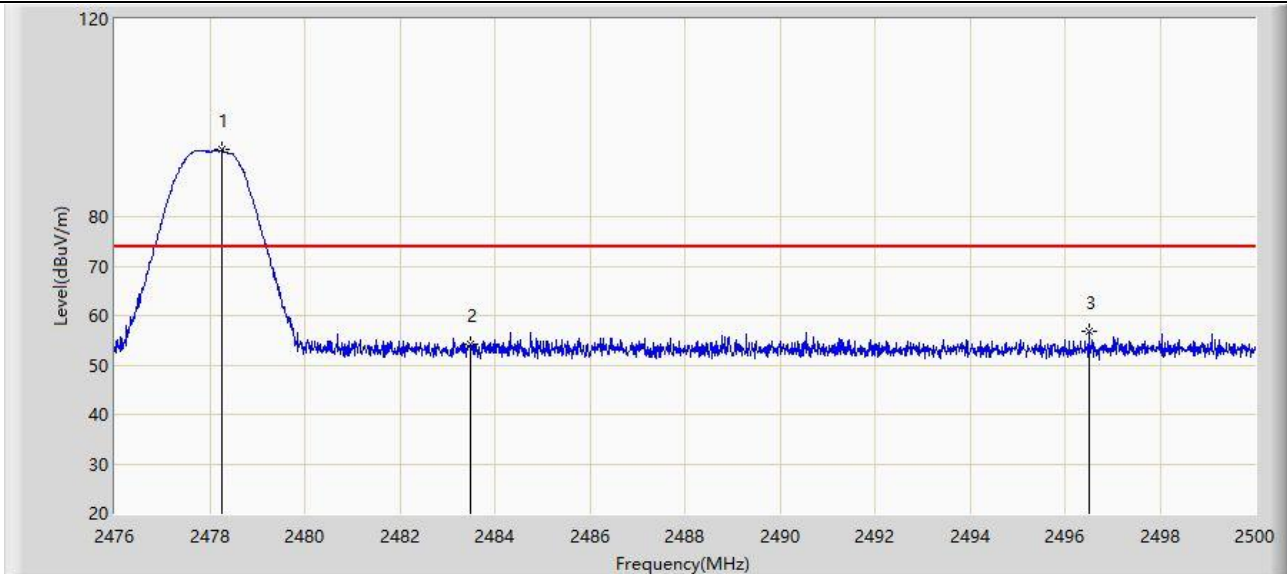
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2478.040	83.523	51.823	N/A	N/A	31.700	AV
2	*	2483.500	31.086	-0.611	-22.914	54.000	31.696	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSM2 at 2478MHz	



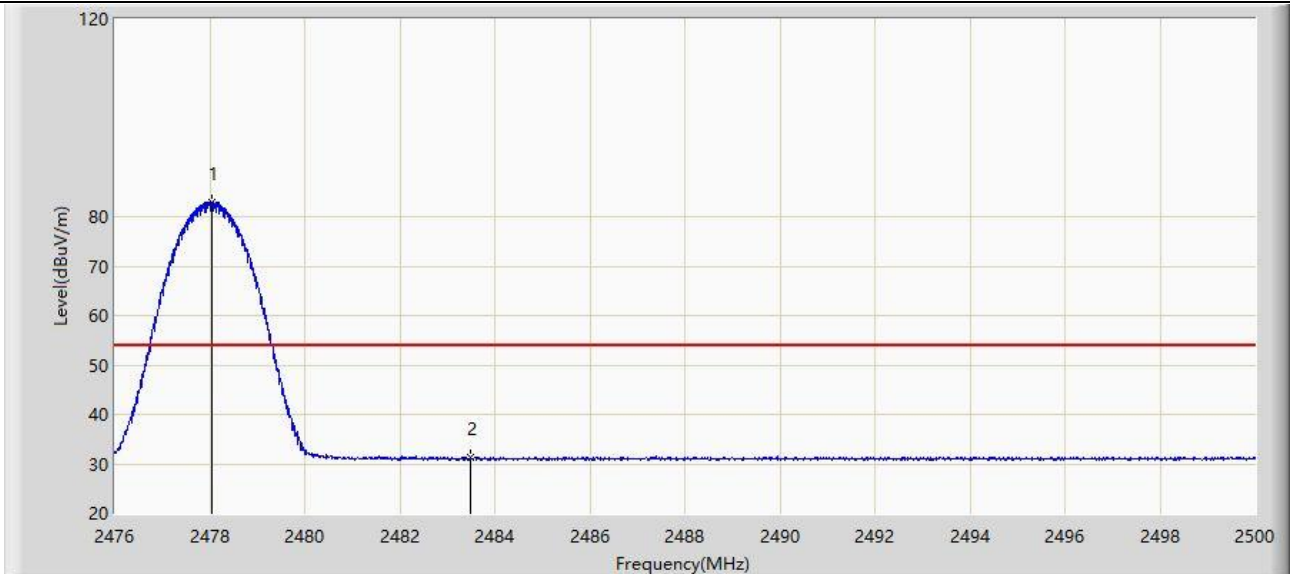
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		2478.268	93.493	61.793	N/A	N/A	31.700	PK
2		2483.500	54.307	22.610	-19.693	74.000	31.696	PK
3	*	2496.508	56.683	24.986	-17.317	74.000	31.697	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSM2 at 2478MHz	



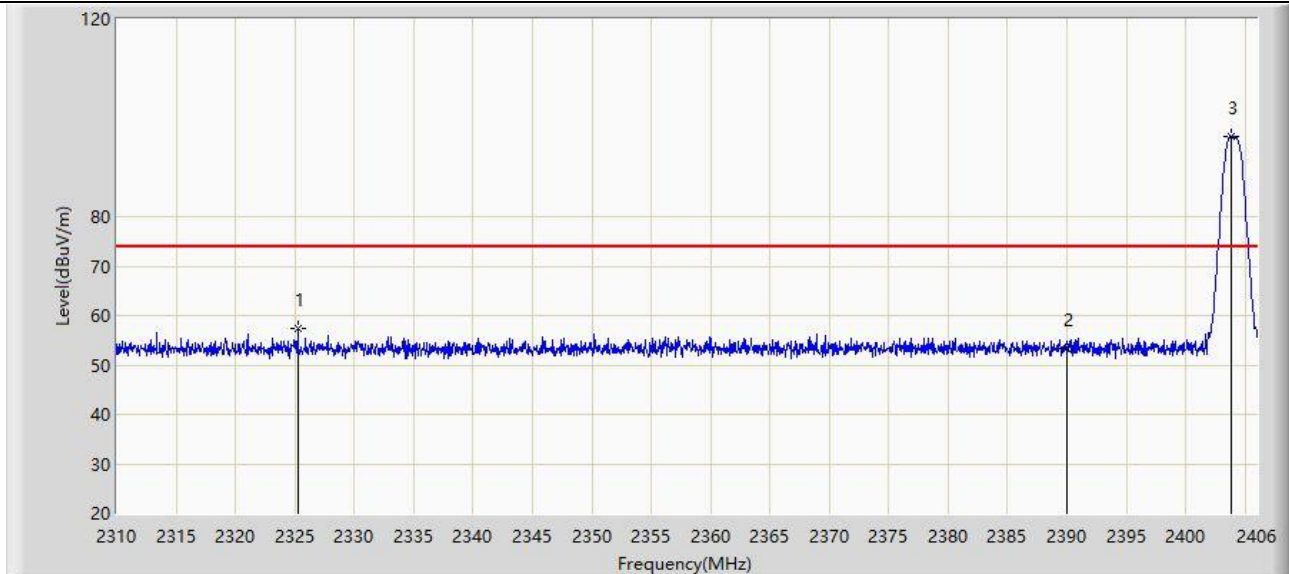
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2478.040	82.890	51.190	N/A	N/A	31.700	AV
2	*	2483.500	31.187	-0.510	-22.813	54.000	31.696	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSMX at 2404MHz	



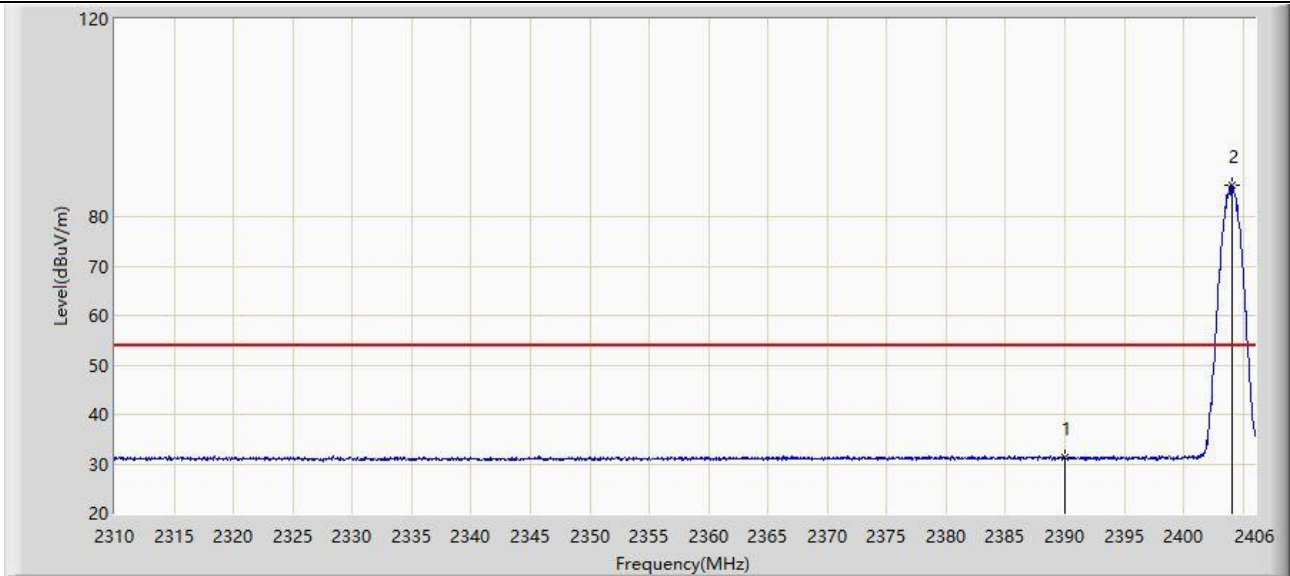
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2325.264	57.324	25.291	-16.676	74.000	32.033	PK
2		2390.000	53.442	21.589	-20.558	74.000	31.853	PK
3		2403.840	96.274	64.496	N/A	N/A	31.778	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSMX at 2404MHz	



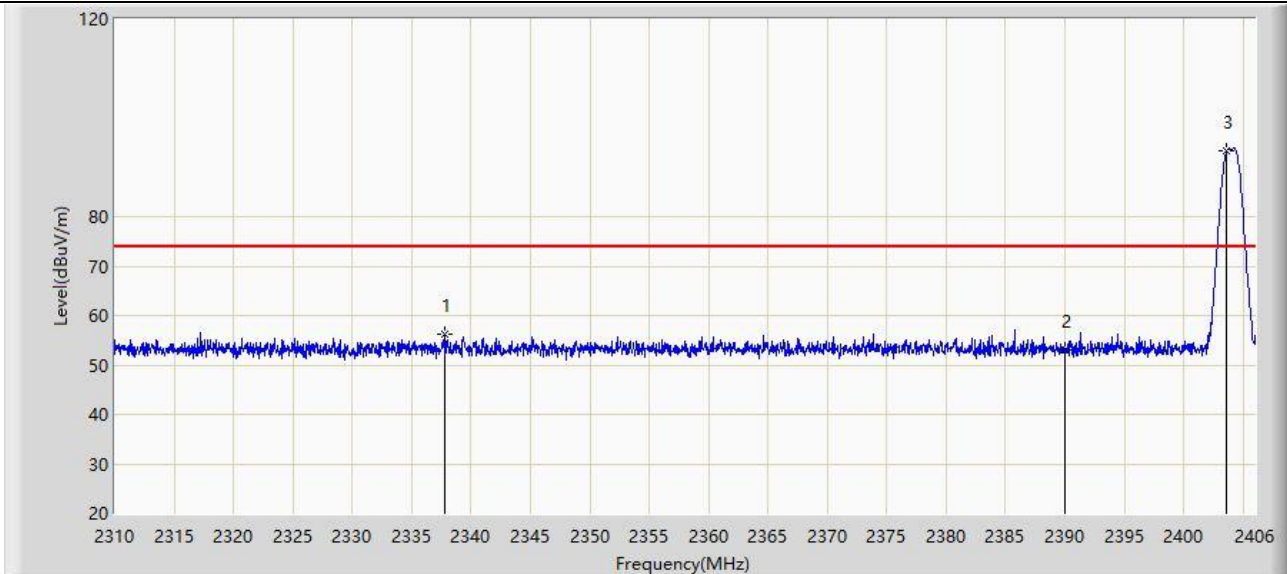
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	31.338	-0.515	-22.662	54.000	31.853	AV
2		2404.032	86.322	54.544	N/A	N/A	31.777	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSMX at 2404MHz	



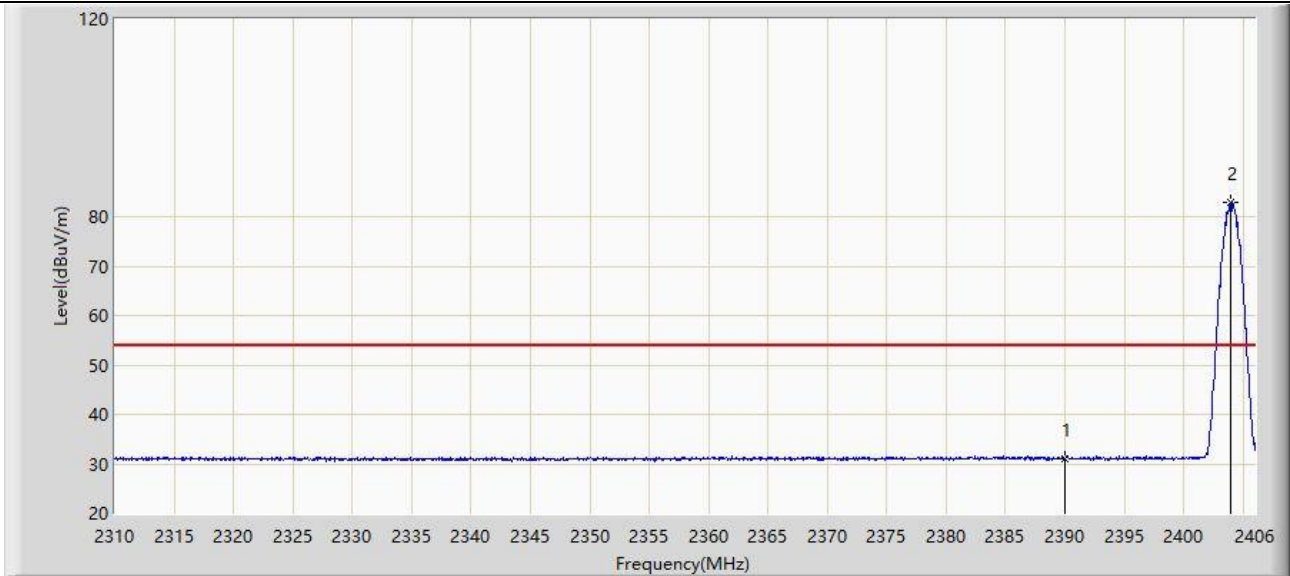
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2337.792	56.162	24.182	-17.838	74.000	31.980	PK
2		2390.000	52.994	21.141	-21.006	74.000	31.853	PK
3		2403.648	93.453	61.674	N/A	N/A	31.779	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSMX at 2404MHz	



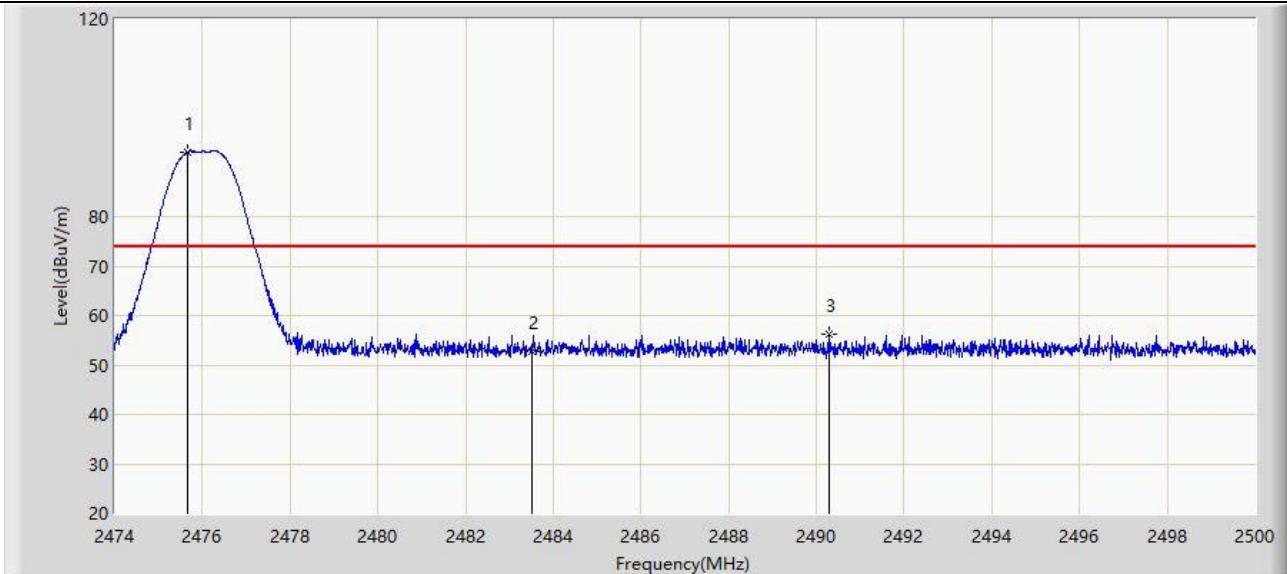
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	30.928	-0.925	-23.072	54.000	31.853	AV
2		2403.984	82.968	51.190	N/A	N/A	31.778	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSMX at 2476MHz	



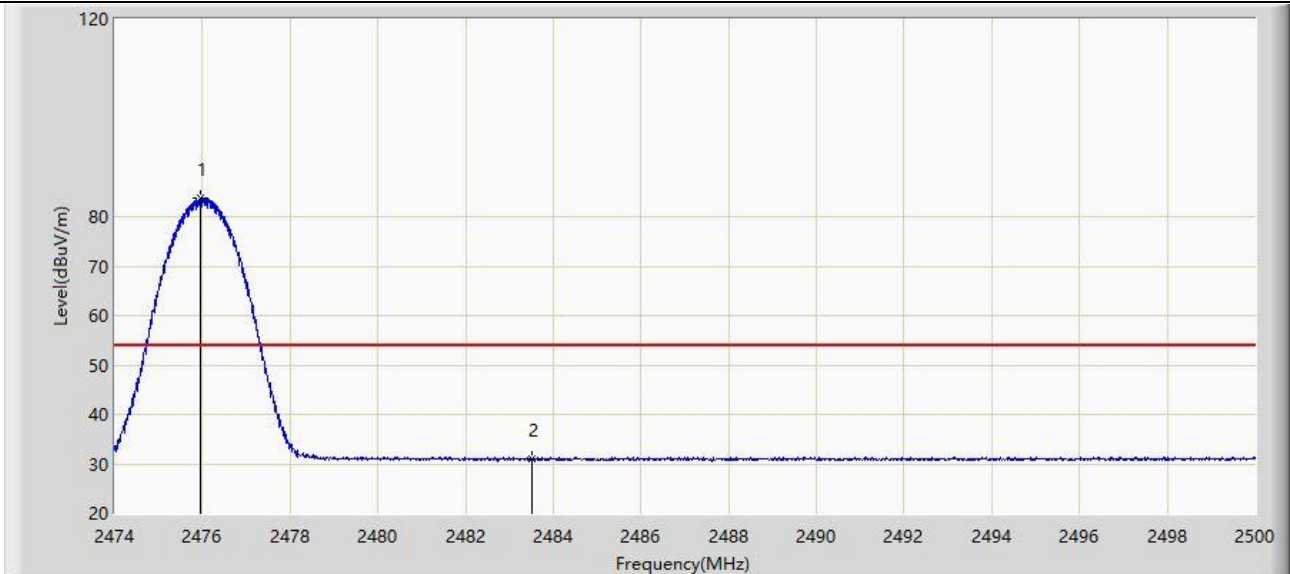
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2475.677	93.159	61.458	N/A	N/A	31.701	PK
2		2483.500	52.661	20.964	-21.339	74.000	31.696	PK
3	*	2490.276	56.266	24.573	-17.734	74.000	31.693	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSMX at 2476MHz	



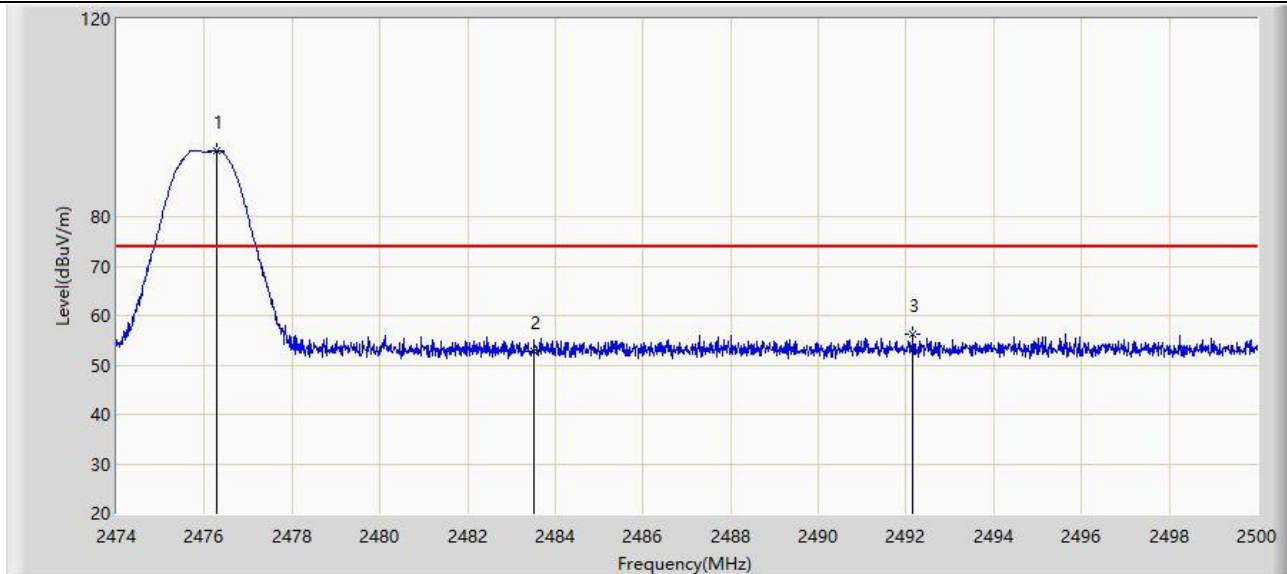
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2475.963	83.685	51.984	N/A	N/A	31.701	AV
2	*	2483.500	30.901	-0.796	-23.099	54.000	31.696	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSMX at 2476MHz	



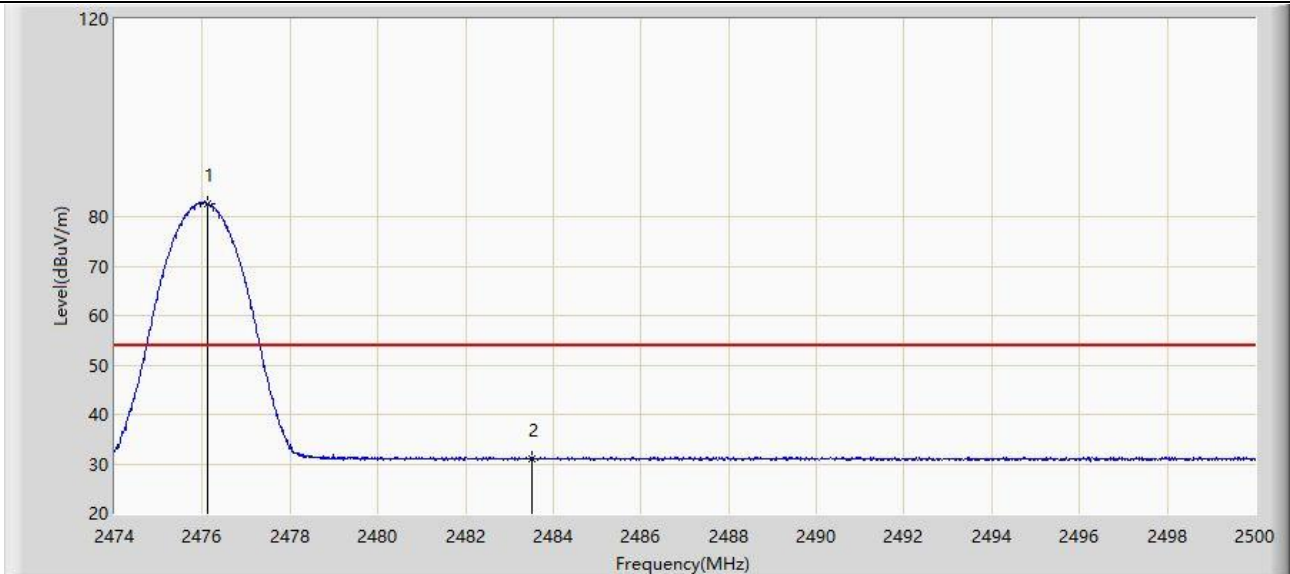
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2476.288	93.461	61.760	N/A	N/A	31.701	PK
2		2483.500	52.742	21.045	-21.258	74.000	31.696	PK
3	*	2492.161	56.357	24.665	-17.643	74.000	31.693	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2024-03-14
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: AS5440 DSMX 5 channel AS3X & SAFE receiver with Brushed ESC	Power: By Computer
Test Mode: Transmit by DSMX at 2476MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2476.132	82.612	50.911	N/A	N/A	31.701	AV
2	*	2483.500	30.929	-0.768	-23.071	54.000	31.696	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

A.3 20dB Bandwidth Test Result

Test Site	WZ-SR5	Test Date	2024-03-14
Test Engineer	Jeff Yang	Test Mode	Mode 1

Test Frequency (MHz)	20dB Bandwidth (MHz)	F_L (MHz)	F_L Limit (MHz)	F_H (MHz)	F_H Limit (MHz)	Result
2402	1.163	2401.4185	≥ 2400	2402.5815	≤ 2483.5	Pass
2440	1.143	2439.4285	≥ 2400	2440.5715	≤ 2483.5	Pass
2478	1.155	2477.4225	≥ 2400	2478.5775	≤ 2483.5	Pass

Note 1: F_L (MHz) = Test Frequency - 20dB Bandwidth (MHz) / 2;

Note 2: F_H (MHz) = Test Frequency + 20dB Bandwidth (MHz) / 2.



Test Site	WZ-SR5	Test Date	2024-03-14
Test Engineer	Jeff Yang	Test Mode	Mode 2

Test Freq. (MHz)	20dB Bandwidth (MHz)	F _L (MHz)	F _L Limit (MHz)	F _H (MHz)	F _H Limit (MHz)	Result
2404	1.172	2403.4140	≥ 2400	2404.5860	≤ 2483.5	Pass
2440	1.139	2439.4305	≥ 2400	2439.4305	≤ 2483.5	Pass
2476	1.175	2475.4125	≥ 2400	2476.5875	≤ 2483.5	Pass

Note 1: F_L (MHz) = Test Frequency - 20dB Bandwidth (MHz) / 2;

Note 2: F_H (MHz) = Test Frequency + 20dB Bandwidth (MHz) / 2.



Appendix B - Test Setup Photograph

Refer to "2403RSU008-UT" file.

Appendix C - EUT Photograph

Refer to "2403RSU008-UE" file.