



RF MEASUREMENT REPORT

FCC ID: 2BAHBINTSHMDV20EC25
Applicant: Intangles Lab Private Limited
Product: System Health Monitoring Device
Model No.: INT-SHMD-V2.0I-EC25AF; INT-SHMD-V2.0E-EC25AF
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
Result: Complies
Received Date: 2023-05-08
Test Date: 2023-05-09 ~ 2023-05-16

Reviewed By:

Sunny Sun

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
2304RSU037-U3	V01	Initial Report	2023-05-22	Valid

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1. General Information

1.1. Applicant

Intangles Lab Private Limited

Orville Business Port, 9th Floor, Terminal 2 Airport Road, Viman Nagar, Pune, Maharashtra – 411014

1.2. Manufacturer

Intangles Lab Private Limited

Orville Business Port, 9th Floor, Terminal 2 Airport Road, Viman Nagar, Pune, Maharashtra – 411014

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China Laboratory Accreditations A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
☐	Test Site – MRT Shenzhen Laboratory Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China Laboratory Accreditations A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Laboratory Accreditations TAF: L3261-190725 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	System Health Monitoring Device
Model No.	INT-SHMD-V2.0I-EC25AF; INT-SHMD-V2.0E-EC25AF
Brand Name	INTANGLES
WLAN Specification	802.11 b/g/n
Bluetooth Specification	V5.2
GNSS Specification	GPS/GLONASS/BDS/Galileo/SBAS
3GPP Specification	WCDMA Band II/IV/V LTE Band 2/4/5/12/13/14/66/71
Operating Temperature	-40 ~ 85°C
Supply Voltage	8 ~ 32Vdc
Integrated Modular Information	
Cellular Modular Information	Model Number: EC25-AF FCC ID: XMR201808EC25AF
Wi-Fi & BT Modular Information	Model Number: FC41D FCC ID: XMR20211108FC41D
GNSS Modular Information	Model Number: LC86G Brand Name: QUECTEL
Remark: - The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. - This device is based on the certification modular to assess the radiated spurious emission, radiated band edge and reduce output power of some channels. - The model "INT-SHMD-V2.0I-EC25AF" is the internal cellular antenna unit, the model "INT-SHMD-V2.0E-EC25AF" is the external cellular antenna unit, all the other circuits are the same.	

1.5. Radio Specification under Test

Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462MHz
Channel Number	802.11b/g/n-HT20: 11
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 72.2Mbps
Antenna Type	PCB
Antenna Gain	-1.8dBi

1.6. Working Frequencies

802.11b/g/n-HT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

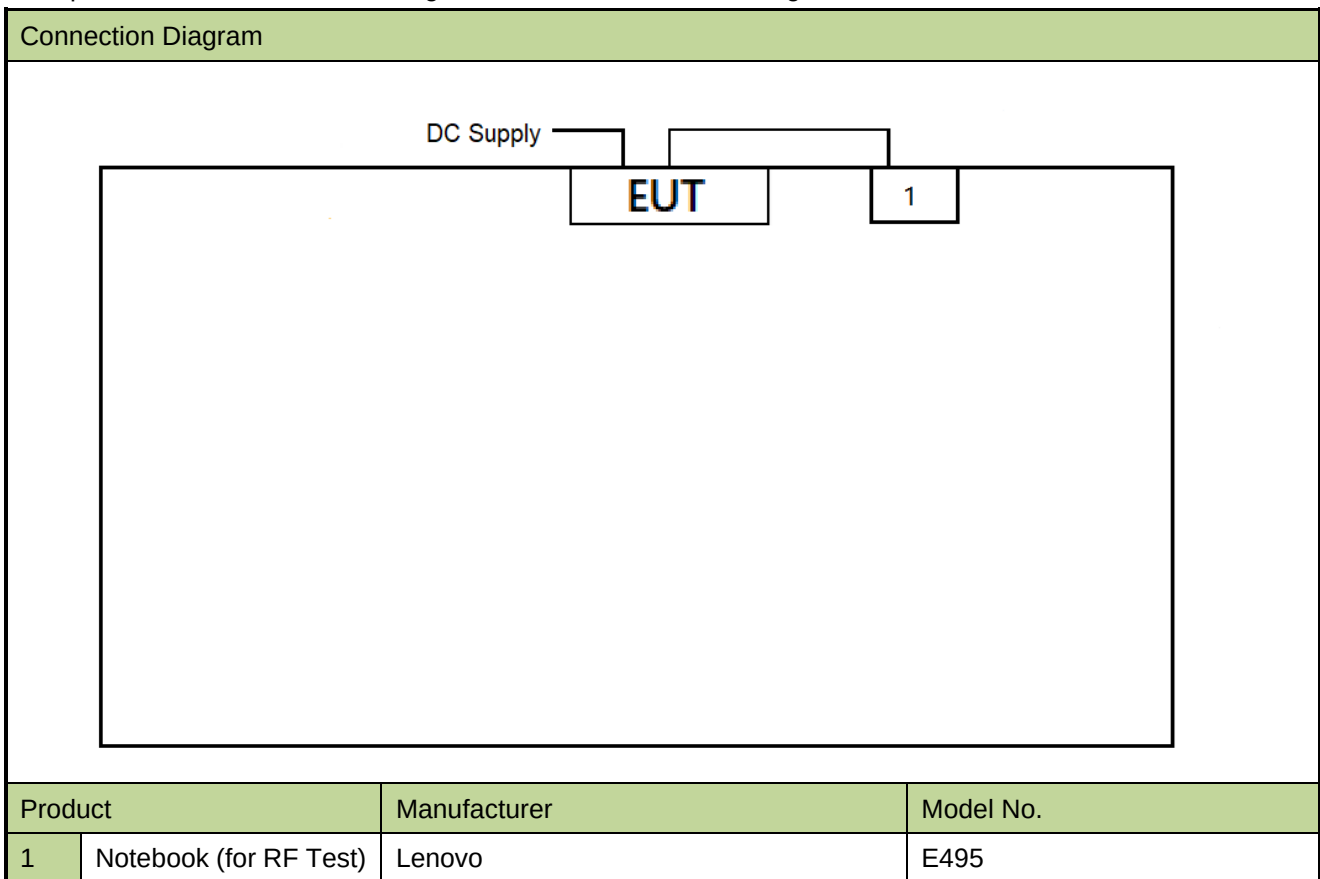
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11b (1Mbps)
Mode 2: Transmit by 802.11g (6Mbps)
Mode 3: Transmit by 802.11n-HT20 (MCS0)

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



2.3. Test Software

The test utility software used during testing was “Wi-Fi Test Tool” and the version was “1.6.5”.

2.4. Applied Standards

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

- FCC Part 15.247
- KDB 558074 D01v05r02
- 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:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Anechoic Chamber	RIKEN	SIP-AC1	MRTSUE06554	1 year	2023-12-22	SIP-AC1
Preamplifier	EMCI	EMC051845SE	MRTSUE06600	1 year	2023-11-07	SIP-AC1
Horn Antenna	R&S	HF907	MRTSUE06610	1 year	2023-07-13	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06616	1 year	2023-11-01	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06620	1 year	2023-11-27	SIP-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06645	1 year	2023-07-30	SIP-AC1
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2023-12-28	SIP-AC1/SIP-AC 2/SIP-AC3
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2023-10-10	SIP-AC1/SIP-AC 2/SIP-AC3
Preamplifier	EMCI	EMC001330	MRTSUE06643	1 year	2024-01-12	SIP-AC1/SIP-AC 2/SIP-AC3
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2024-02-26	SIP-AC1/SIP-AC 2/SIP-AC3
Signal Analyzer	Keysight	N9010B	MRTSUE07028	1 year	2023-11-25	SIP-AC1/SIP-AC 2/SIP-AC3
Test loop antenna	MRT	d-2m	MRTSUE11131	N/A	N/A	SIP-AC1/SIP-AC 2/SIP-AC3
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06599	1 year	2023-10-13	SIP-AC1/SIP-AC 3
Preamplifier	EMCI	EMC051845SE	MRTSUE06601	1 year	2023-11-22	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06623	1 year	2023-11-27	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06624	1 year	2023-11-27	SIP-AC2
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06647	1 year	2023-07-13	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2023-12-22	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06648	1 year	2023-10-22	SIP-AC2

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2023-07-30	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2023-11-01	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06622	1 year	2023-11-27	SIP-AC3
Preamplifier	EMCI	EMC012645SE	MRTSUE06642	1 year	2024-01-12	SIP-AC3
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06646	1 year	2023-08-16	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2023-12-22	SIP-AC3
USB Power Sensor	Keysight	U2021XA	MRTSUE06596	1 year	2023-08-23	SIP-TR2
Thermohygrometer	testo	608-H1	MRTSUE11109	1 year	2024-03-03	SIP-TR2

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

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. 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 $k = 2$.

AC Conducted Emission Measurement
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 9kHz~150kHz: 3.74dB 150kHz~30MHz: 3.44dB
Radiated Disturbance
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): Horizontal: 30MHz~300MHz: 5.04dB 300MHz~1GHz: 4.95dB 1GHz~40GHz: 6.40dB Vertical: 30MHz~300MHz: 5.24dB 300MHz~1GHz: 6.03dB 1GHz~40GHz: 6.40dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.13dB

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(b)(3)	Output Power	Conducted	Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass

Notes:

1. 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.
2. For radiated emission tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

6.2. Output Power Measurement

6.2.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.1.3

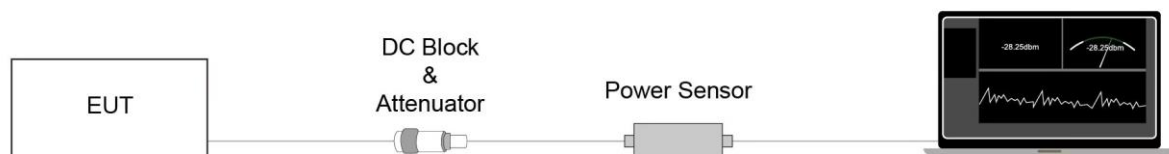
6.2.3. Test Setting

Peak Power Measurement

The maximum peak conducted output power may be measured using a broadband peak RF power meter.

The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.1.

6.3. Radiated Spurious Emission Measurement

6.3.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
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

6.3.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.11 & 11.12

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

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

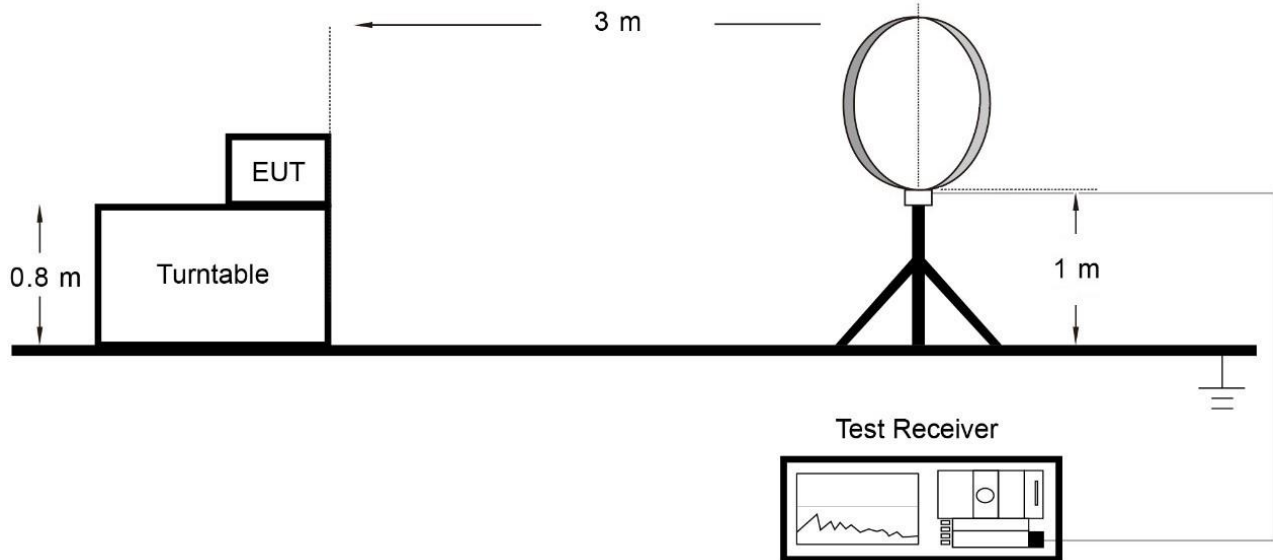
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

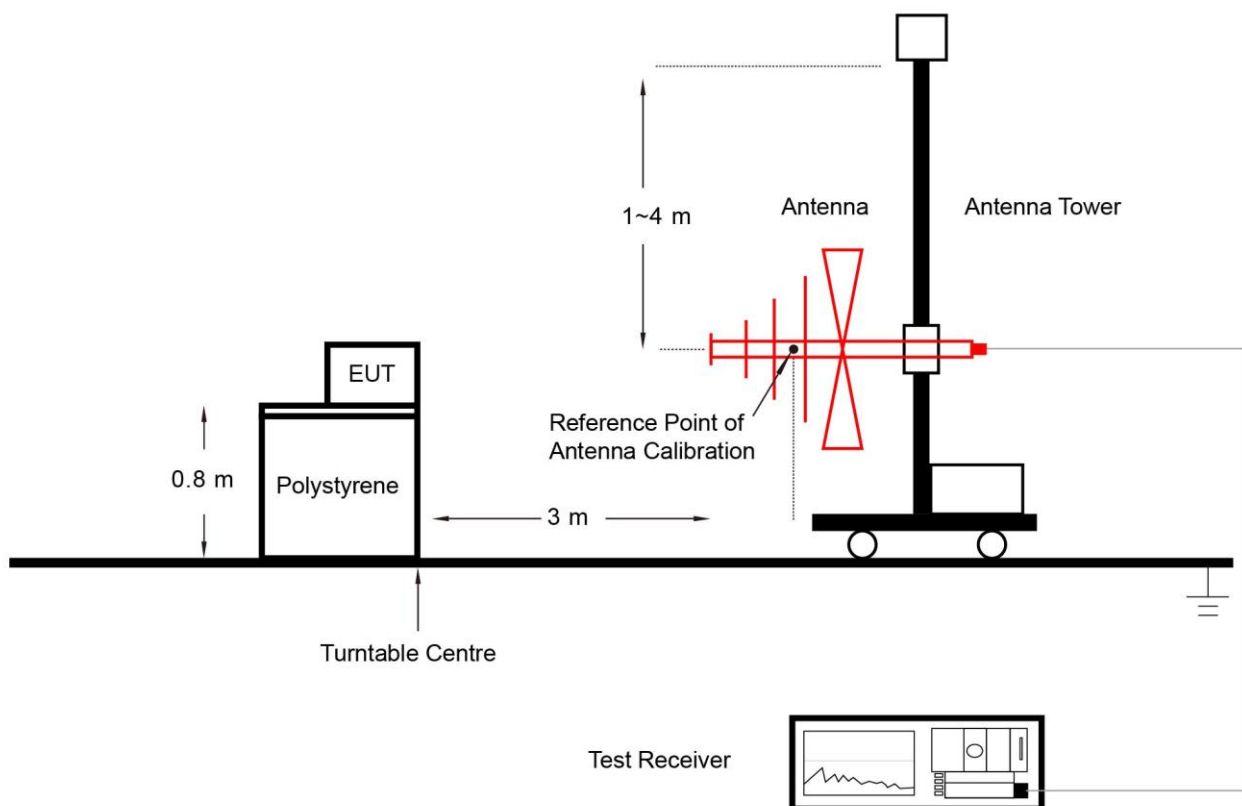
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.3.4. Test Setup

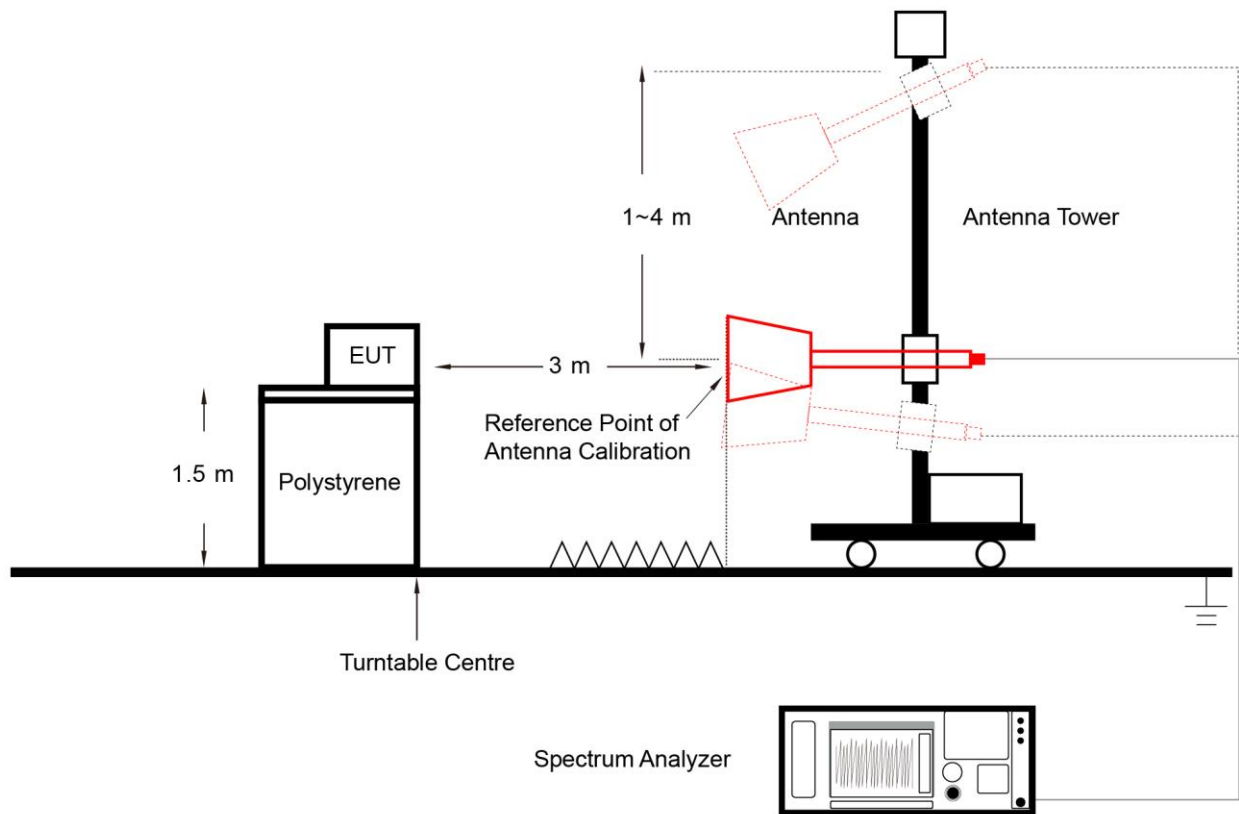
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.3.5. Test Result

Refer to Appendix A.2.

6.4. Radiated Restricted Band Edge Measurement

6.4.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
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

6.4.2. Test Procedure

ANSI C63.10-2013 Section 6.3 & 6.6 & 11.13

6.4.3. Test Setting

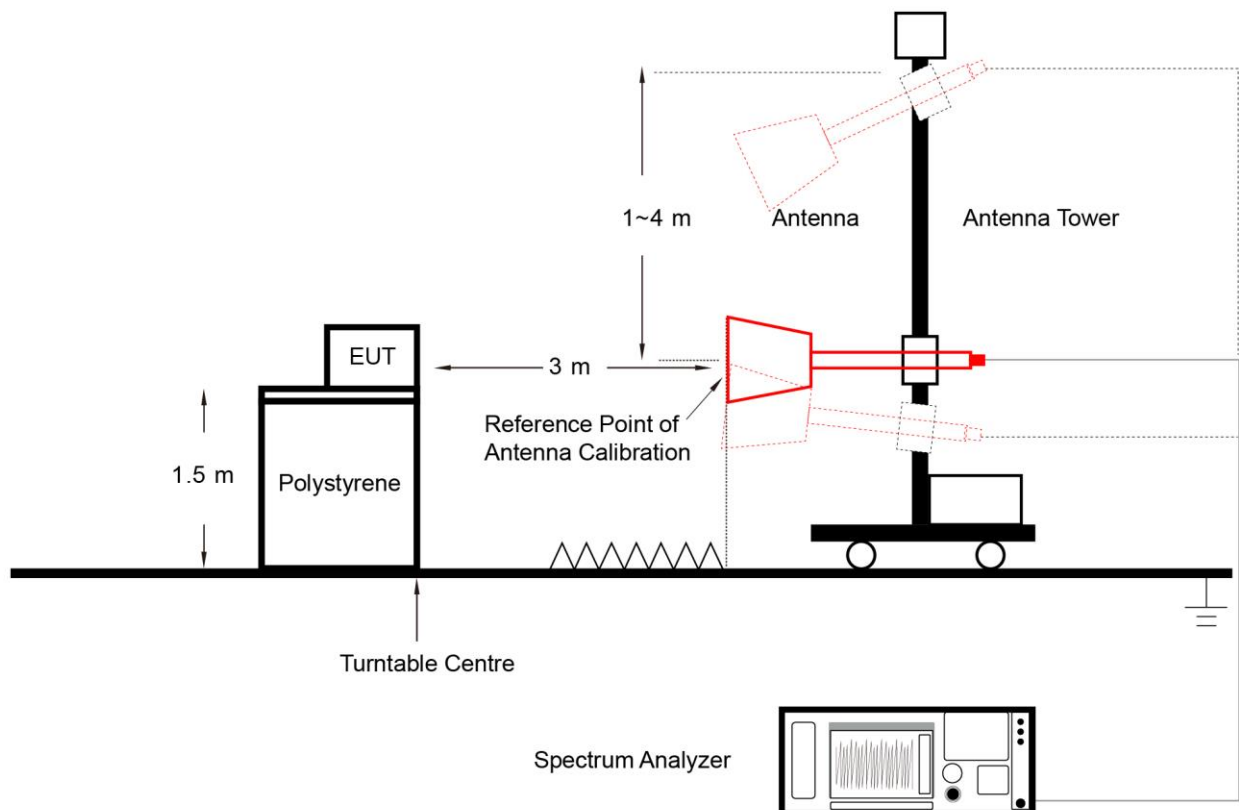
Peak Field Strength Measurements

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. VBW $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.3.

6.5. AC Conducted Emissions Measurement

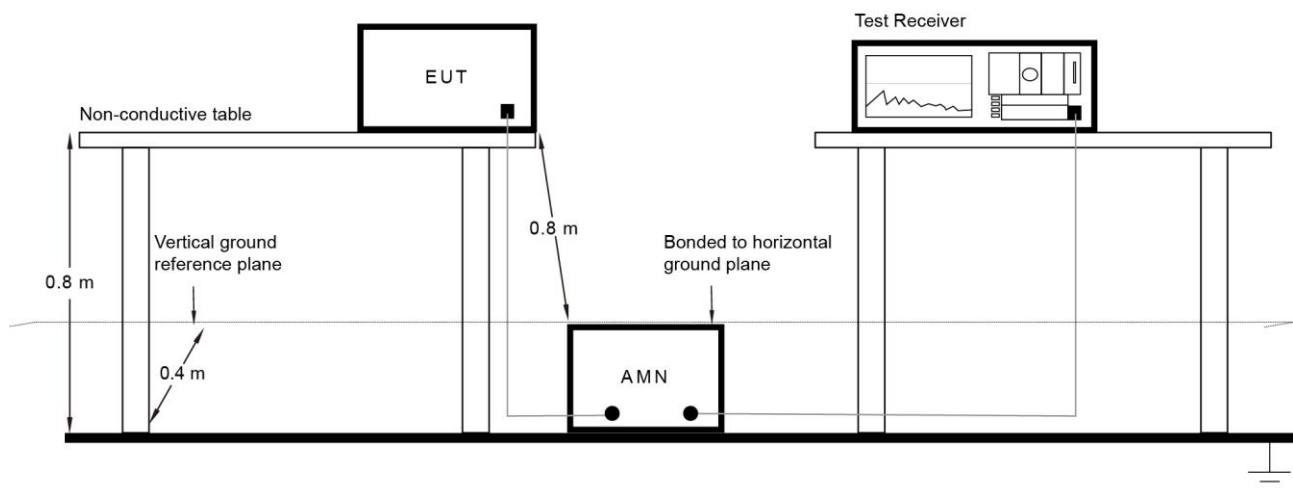
6.5.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
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.

6.5.2. Test Setup



6.5.3. Test Result

This device powered by DC power supply.

Appendix A – Test Result

A.1 Output Power Test Result

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2023-05-18		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Peak Power (dBm)	Limit (dBm)
11g	6Mbps	11	2462	20.04	≤ 30.00
11n-HT20	MCS0	11	2462	20.33	≤ 30.00

Note: The output power limited by radiated band edge. The rest of the other modes test results can refer to the module report.

A.2 Radiated Spurious Emission Test Result

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-05-16	Test Mode:	802.11b
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4825.0	54.1	-10.0	44.1	74.0	-29.9	Peak	Horizontal
	8250.5	47.8	-5.6	42.2	74.0	-31.8	Peak	Horizontal
	11829.0	48.2	-3.6	44.6	74.0	-29.4	Peak	Horizontal
	4825.0	55.1	-10.0	45.1	74.0	-28.9	Peak	Vertical
	8327.0	48.6	-5.8	42.8	74.0	-31.2	Peak	Vertical
	11506.0	47.2	-3.7	43.5	74.0	-30.5	Peak	Vertical
06	7315.5	53.1	1.5	54.6	74.0	-19.4	Peak	Horizontal
	7315.5	42.7	1.5	44.2	54.0	-9.8	AV	Horizontal
	11455.0	40.4	7.5	47.9	74.0	-26.1	Peak	Horizontal
	18000.0	36.7	20.4	57.1	74.0	-16.9	Peak	Horizontal
	18000.0	25.1	20.4	45.5	54.0	-8.5	AV	Horizontal
	7307.0	53.5	1.5	55.0	74.0	-19.0	Peak	Vertical
	7307.0	44.9	1.5	46.4	54.0	-7.6	AV	Vertical
	10809.0	42.0	7.2	49.2	74.0	-24.8	Peak	Vertical
	18000.0	36.3	20.4	56.7	74.0	-17.3	Peak	Vertical
	18000.0	25.1	20.4	45.5	54.0	-8.5	AV	Vertical
11	7383.5	60.7	1.8	62.5	74.0	-11.5	Peak	Horizontal
	7383.5	49.9	1.8	51.7	54.0	-2.3	AV	Horizontal
	11115.0	41.5	7.4	48.9	74.0	-25.1	Peak	Horizontal
	17983.0	38.5	20.1	58.6	74.0	-15.4	Peak	Horizontal
	17983.0	25.1	20.1	45.2	54.0	-8.8	AV	Horizontal
	7383.5	57.9	1.8	59.7	74.0	-14.3	Peak	Vertical
	7383.5	49.3	1.8	51.1	54.0	-2.9	AV	Vertical
	11200.0	41.4	7.0	48.4	74.0	-25.6	Peak	Vertical
	17830.0	37.4	19.3	56.7	74.0	-17.3	Peak	Vertical
	17830.0	25.1	19.3	44.4	54.0	-9.6	AV	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-05-16	Test Mode:	802.11g
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	5012.0	43.8	-5.2	38.6	74.0	-35.4	Peak	Horizontal
	11021.5	40.7	7.5	48.2	74.0	-25.8	Peak	Horizontal
	18000.0	36.9	20.4	57.3	74.0	-16.7	Peak	Horizontal
	18000.0	25.0	20.4	45.4	54.0	-8.6	AV	Horizontal
	7443.0	42.2	2.2	44.4	74.0	-29.6	Peak	Vertical
	10919.5	41.8	7.5	49.3	74.0	-24.7	Peak	Vertical
	18000.0	38.0	20.4	58.4	74.0	-15.6	Peak	Vertical
	18000.0	25.1	20.4	45.5	54.0	-8.5	AV	Vertical
06	7307.0	54.4	1.5	55.9	74.0	-18.1	Peak	Horizontal
	7307.0	41.8	1.5	43.3	54.0	-10.7	AV	Horizontal
	11531.5	40.0	7.9	47.9	74.0	-26.1	Peak	Horizontal
	18000.0	36.7	20.4	57.1	74.0	-16.9	Peak	Horizontal
	18000.0	25.1	20.4	45.5	54.0	-8.5	AV	Horizontal
	7315.5	51.1	1.5	52.6	74.0	-21.4	Peak	Vertical
	7315.5	39.1	1.5	40.6	54.0	-13.4	AV	Vertical
	10987.5	40.7	7.4	48.1	74.0	-25.9	Peak	Vertical
	17923.5	35.9	20.5	56.4	74.0	-17.6	Peak	Vertical
	17923.5	25.2	20.5	45.7	54.0	-8.3	AV	Vertical
11	7383.5	55.0	1.8	56.8	74.0	-17.2	Peak	Horizontal
	7383.5	41.1	1.8	42.9	54.0	-11.1	AV	Horizontal
	10928.0	41.7	7.4	49.1	74.0	-24.9	Peak	Horizontal
	17838.5	37.2	19.3	56.5	74.0	-17.5	Peak	Horizontal
	17838.5	25.1	19.3	44.4	54.0	-9.6	AV	Horizontal
	7383.5	54.1	1.8	55.9	74.0	-18.1	Peak	Vertical
	7383.5	41.6	1.8	43.4	54.0	-10.6	AV	Vertical
	11123.5	40.8	7.2	48.0	74.0	-26.0	Peak	Vertical
	17991.5	38.1	20.3	58.4	74.0	-15.6	Peak	Vertical
	17991.5	25.1	20.3	45.4	54.0	-8.6	AV	Vertical

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) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-05-16	Test Mode:	802.11n-HT20
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

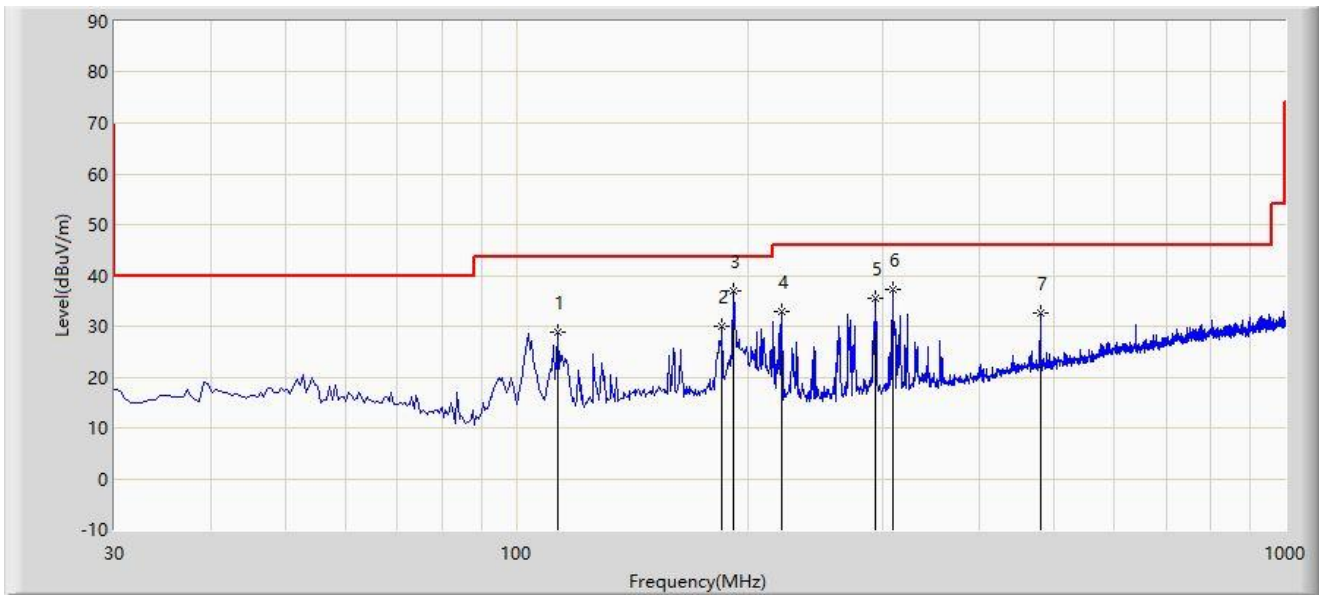
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4833.5	45.0	-6.1	38.9	74.0	-35.1	Peak	Horizontal
	10996.0	40.1	7.5	47.6	74.0	-26.4	Peak	Horizontal
	17898.0	36.4	20.0	56.4	74.0	-17.6	Peak	Horizontal
	17898.0	25.0	20.0	45.0	54.0	-9.0	AV	Horizontal
	4825.0	52.4	-6.3	46.1	74.0	-27.9	Peak	Vertical
	10843.0	42.1	7.0	49.1	74.0	-24.9	Peak	Vertical
	17974.5	37.5	20.0	57.5	74.0	-16.5	Peak	Vertical
	17974.5	25.1	20.0	45.1	54.0	-8.9	AV	Vertical
06	7324.0	51.5	1.5	53.0	74.0	-21.0	Peak	Horizontal
	7324.0	40.3	1.5	41.8	54.0	-12.2	AV	Horizontal
	10877.0	41.1	7.5	48.6	74.0	-25.4	Peak	Horizontal
	17991.5	36.7	20.3	57.0	74.0	-17.0	Peak	Horizontal
	17991.5	25.1	20.3	45.4	54.0	-8.6	AV	Horizontal
	7324.0	48.7	1.5	50.2	74.0	-23.8	Peak	Vertical
	7324.0	39.9	1.5	41.4	54.0	-12.6	AV	Vertical
	10979.0	41.1	7.4	48.5	74.0	-25.5	Peak	Vertical
	18000.0	36.4	20.4	56.8	74.0	-17.2	Peak	Vertical
	18000.0	25.1	20.4	45.5	54.0	-8.5	AV	Vertical
11	7383.5	54.6	1.8	56.4	74.0	-17.6	Peak	Horizontal
	7383.5	42.7	1.8	44.5	54.0	-9.5	AV	Horizontal
	10885.5	41.1	7.5	48.6	74.0	-25.4	Peak	Horizontal
	18000.0	36.8	20.4	57.2	74.0	-16.8	Peak	Horizontal
	18000.0	25.1	20.4	45.5	54.0	-8.5	AV	Horizontal
	7400.5	52.8	2.0	54.8	74.0	-19.2	Peak	Vertical
	7400.5	40.6	2.0	42.6	54.0	-11.4	AV	Vertical
	10919.5	41.2	7.5	48.7	74.0	-25.3	Peak	Vertical
	17847.0	37.0	19.4	56.4	74.0	-17.6	Peak	Vertical
	17847.0	25.1	19.4	44.5	54.0	-9.5	AV	Vertical

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) - Pre_Amplifier Gain (dB)

The Result of Radiated Emission below 1GHz:

Site: SIP-AC3	Test Date: 2023-05-16
Limit: FCC_Part15.209_RSE(3m)	Engineer: Fusco Pan
Probe: VULB 9168_00997_25-2000MHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		113.420	28.903	13.753	-14.597	43.500	15.150	PK
2		185.200	29.876	13.961	-13.624	43.500	15.915	PK
3	*	191.990	36.992	21.783	-6.508	43.500	15.209	PK
4		221.090	32.894	18.176	-13.106	46.000	14.718	PK
5		292.870	35.379	17.127	-10.621	46.000	18.252	PK
6		308.875	37.118	18.451	-8.882	46.000	18.666	PK
7		480.080	32.613	9.878	-13.387	46.000	22.735	PK

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

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

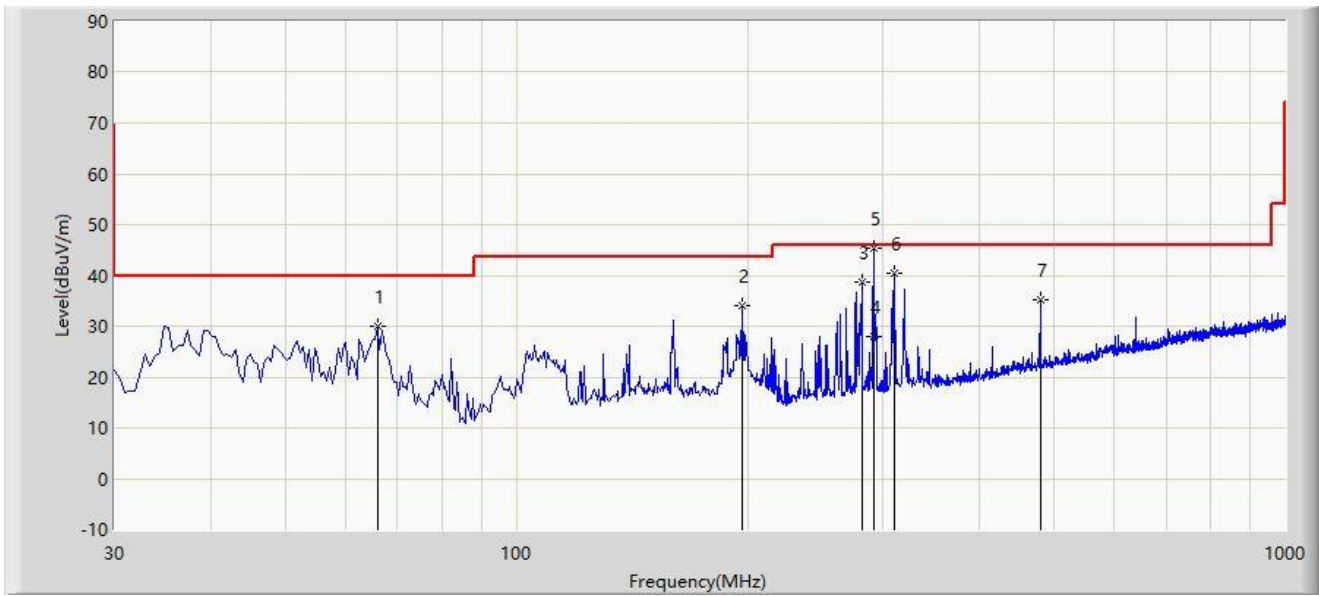
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Note 5: 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: SIP-AC3	Test Date: 2023-05-16
Limit: FCC_Part15.209_RSE(3m)	Engineer: Fusco Pan
Probe: VULB 9168_00997_25-2000MHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		65.890	29.949	13.689	-10.051	40.000	16.260	PK
2		196.355	34.179	19.247	-9.321	43.500	14.933	PK
3		281.230	38.767	20.755	-7.233	46.000	18.012	PK
4		291.300	28.030	9.800	-17.970	46.000	18.230	QP
5	*	291.415	45.266	27.034	-0.734	46.000	18.231	PK
6		310.330	40.523	21.811	-5.477	46.000	18.712	PK
7		480.080	35.332	12.597	-10.668	46.000	22.735	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).

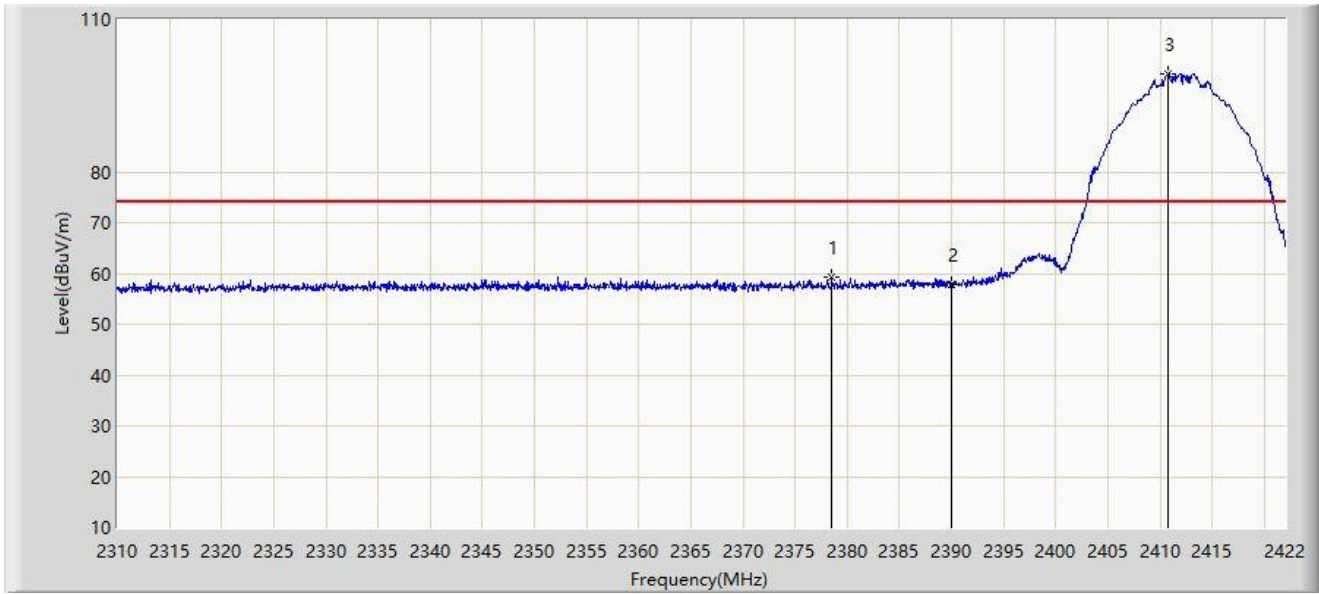
Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Note 5: 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.3 Radiated Restricted Band Edge Test Result

Site: SIP-AC1	Test Date: 2023-05-15
Limit: FCC_2.4G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11b at 2412MHz	



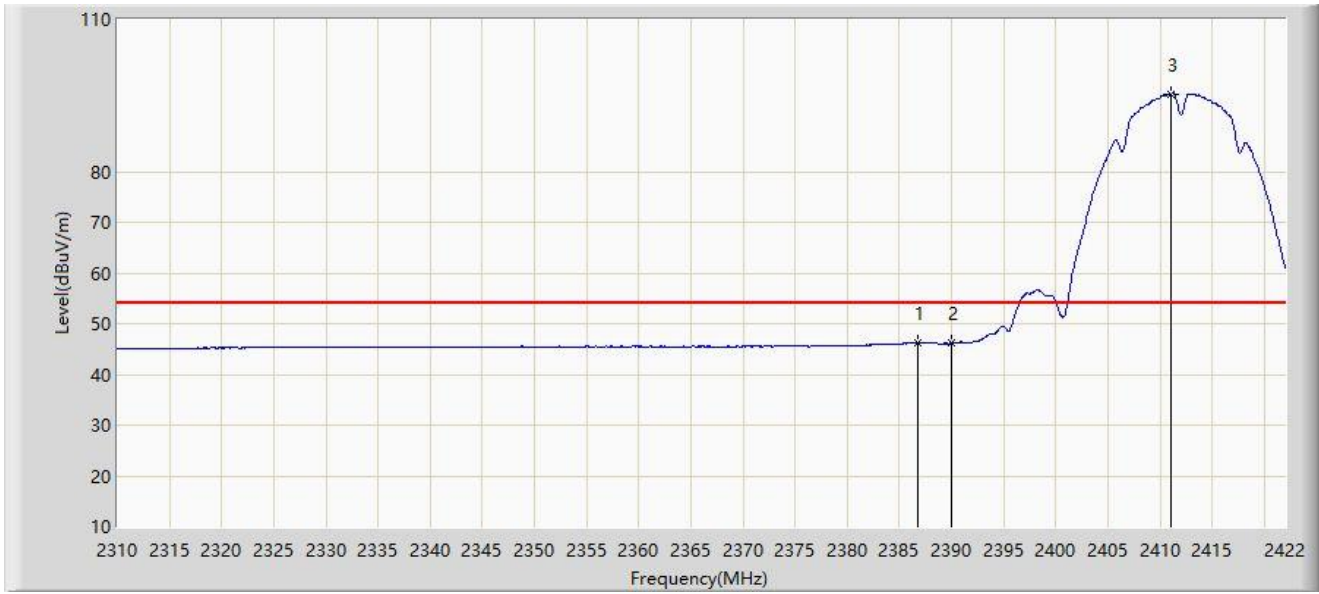
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2378.544	59.411	28.139	-14.589	74.000	31.272	PK
2		2390.000	57.704	26.192	-16.296	74.000	31.512	PK
3		2410.800	99.379	67.745	N/A	N/A	31.634	PK

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: SIP-AC1	Test Date: 2023-05-15
Limit: FCC_2.4G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11b at 2412MHz	



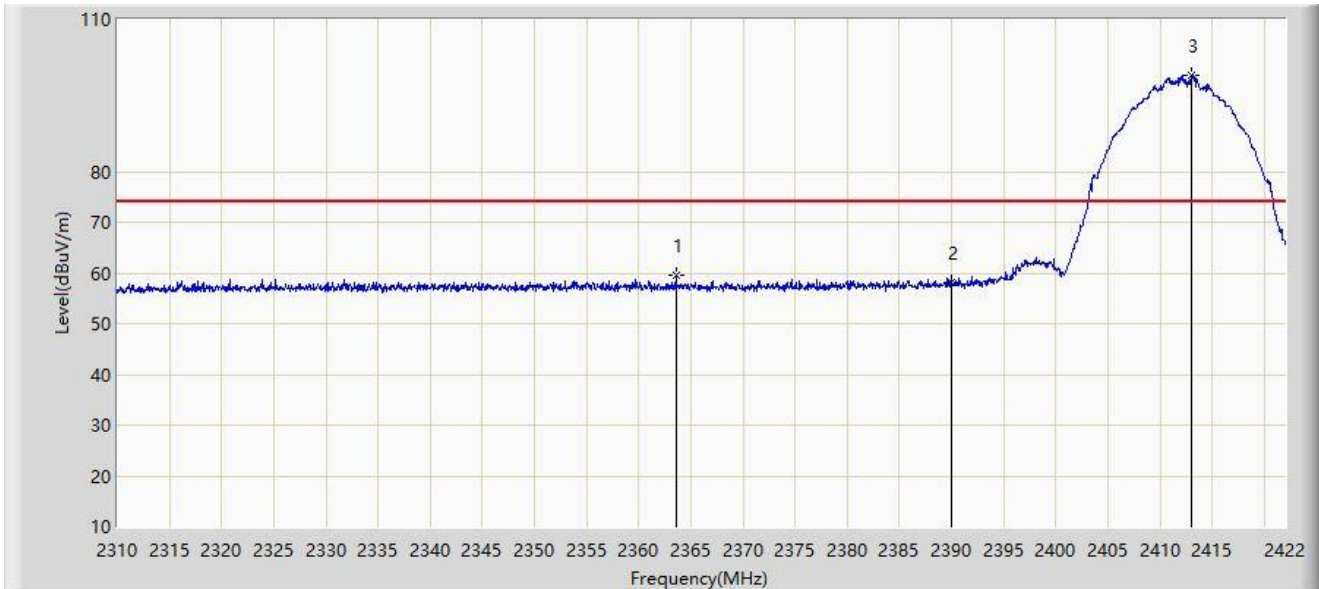
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2386.776	46.213	14.768	-7.787	54.000	31.444	AV
2		2390.000	46.150	14.638	-7.850	54.000	31.512	AV
3		2411.080	95.324	63.689	N/A	N/A	31.634	AV

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: SIP-AC1	Test Date: 2023-05-15
Limit: FCC_2.4G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11b at 2412MHz	



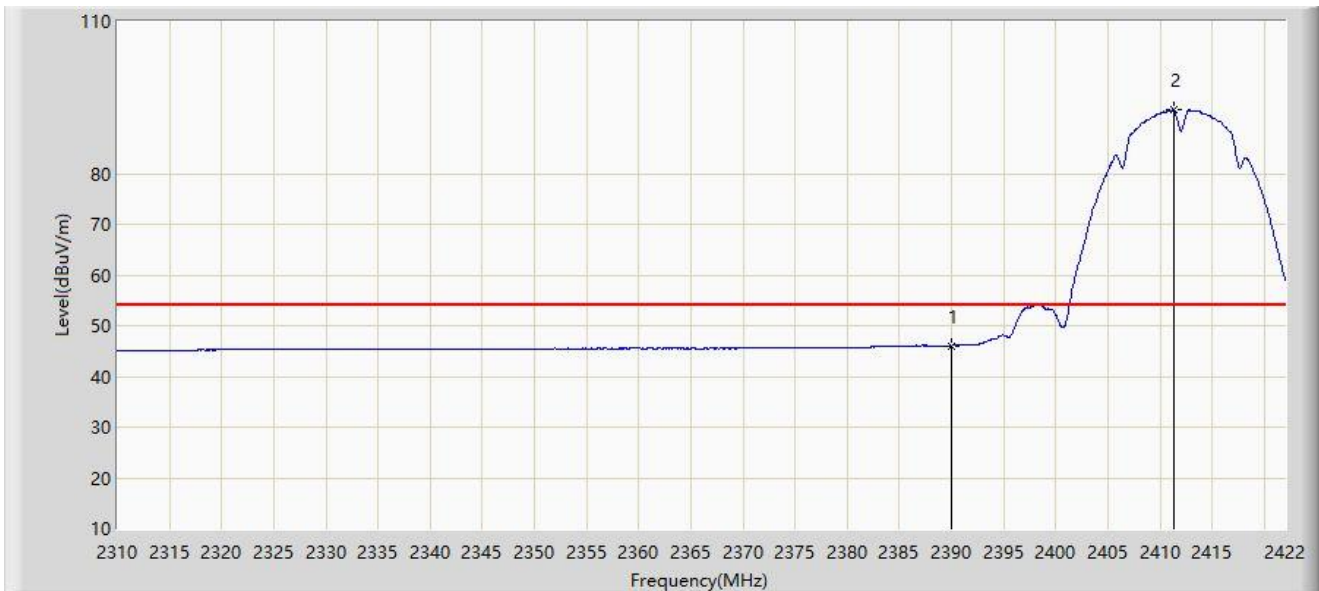
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2363.592	59.699	28.417	-14.301	74.000	31.282	PK
2		2390.000	58.253	26.741	-15.747	74.000	31.512	PK
3		2413.040	98.977	67.337	N/A	N/A	31.640	PK

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: SIP-AC1	Test Date: 2023-05-15
Limit: FCC_2.4G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11b at 2412MHz	



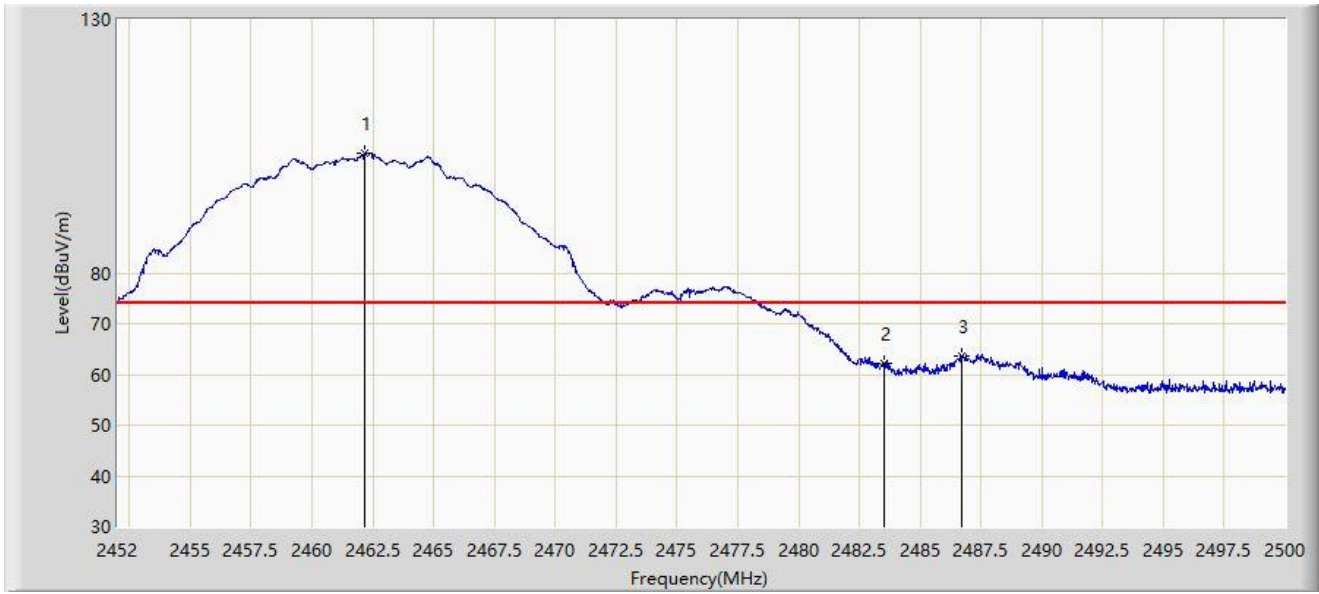
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	46.067	14.555	-7.933	54.000	31.512	AV
2		2411.304	92.529	60.894	N/A	N/A	31.635	AV

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11b at 2462MHz	



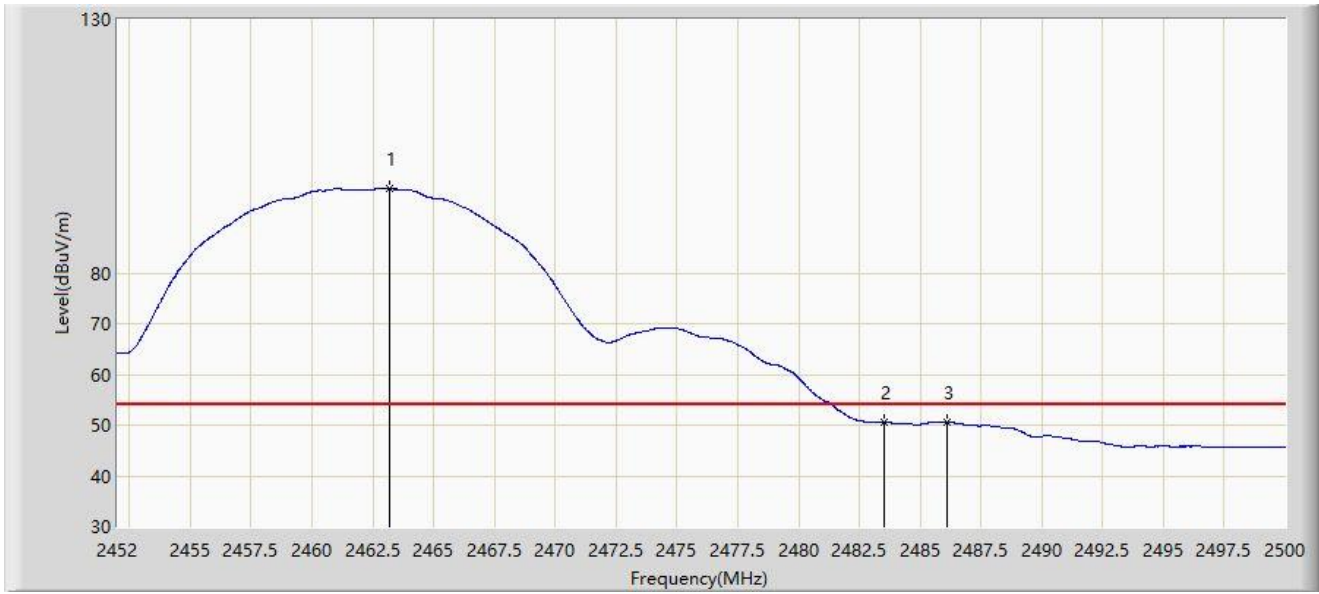
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2462.176	103.567	71.258	N/A	N/A	32.309	PK
2		2483.500	62.187	29.964	-11.813	74.000	32.222	PK
3	*	2486.728	63.728	31.495	-10.272	74.000	32.233	PK

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11b at 2462MHz	



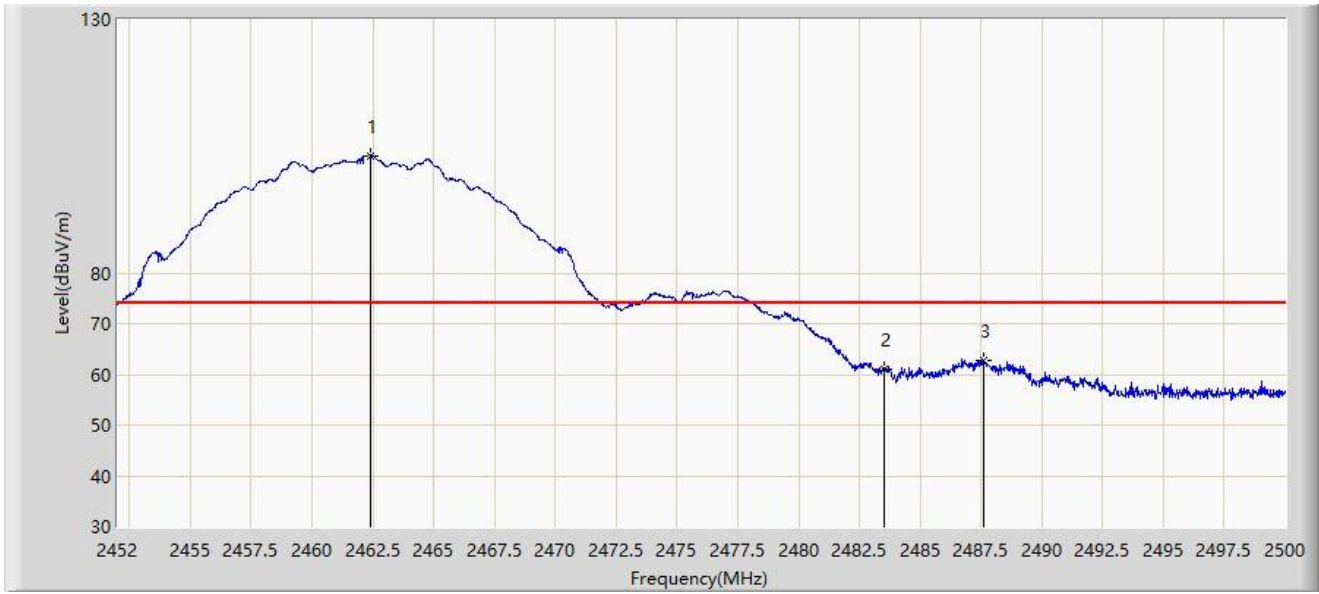
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2463.184	96.700	64.397	N/A	N/A	32.303	AV
2		2483.500	50.585	18.362	-3.415	54.000	32.222	AV
3	*	2486.080	50.662	18.431	-3.338	54.000	32.231	AV

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11b at 2462MHz	



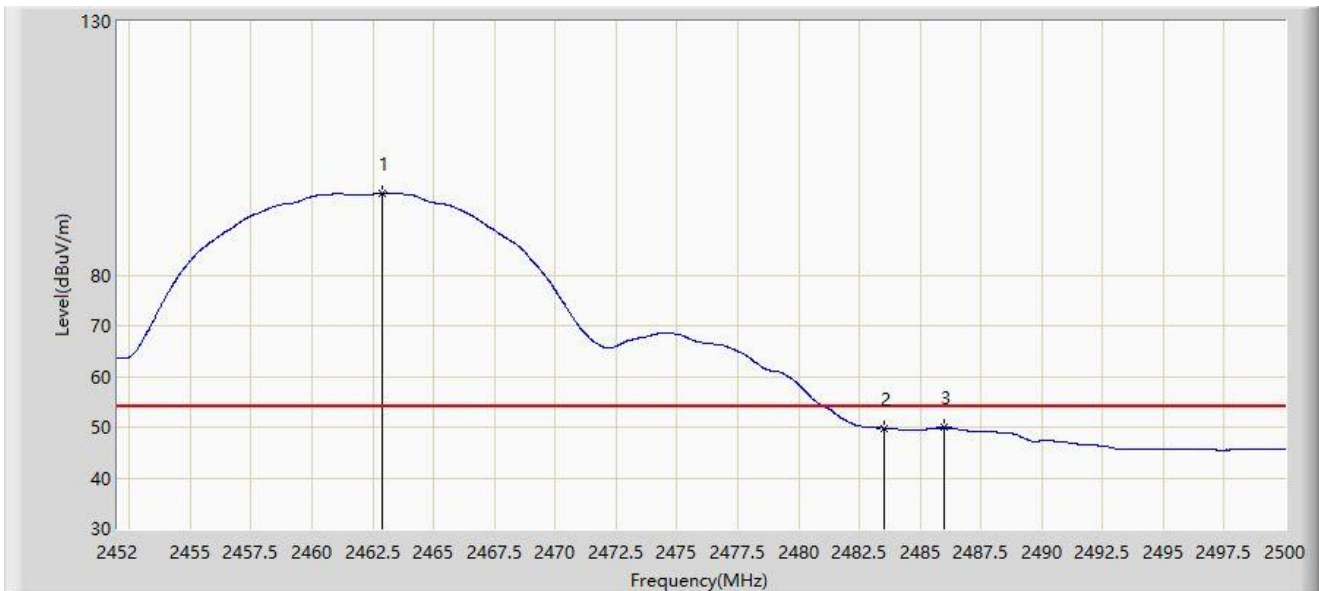
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2462.416	103.143	70.835	N/A	N/A	32.307	PK
2		2483.500	60.961	28.738	-13.039	74.000	32.222	PK
3	*	2487.592	62.819	30.583	-11.181	74.000	32.235	PK

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11b at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2462.872	96.177	63.872	N/A	N/A	32.305	AV
2		2483.500	49.847	17.624	-4.153	54.000	32.222	AV
3	*	2486.008	49.896	17.665	-4.104	54.000	32.231	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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11g at 2412MHz	



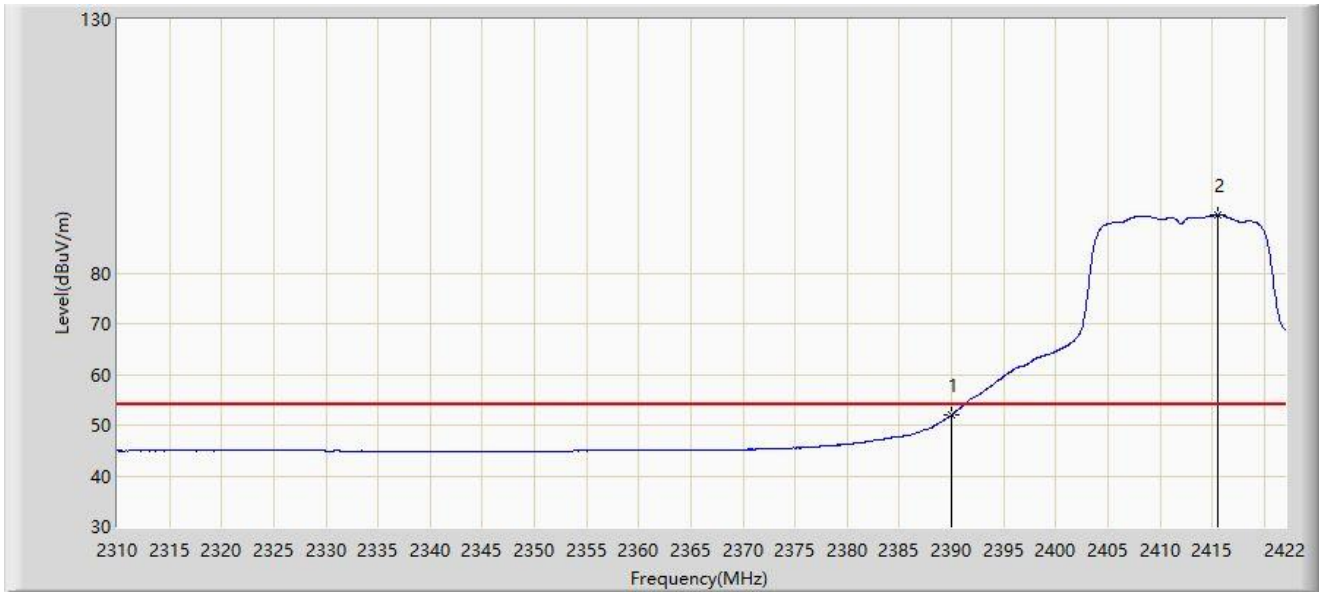
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2389.856	68.226	35.843	-5.774	74.000	32.384	PK
2		2390.000	67.813	35.430	-6.187	74.000	32.382	PK
3		2412.032	100.469	68.135	N/A	N/A	32.334	PK

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11g at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	51.974	19.591	-2.026	54.000	32.382	AV
2		2415.504	91.464	59.126	N/A	N/A	32.338	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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11g at 2412MHz	



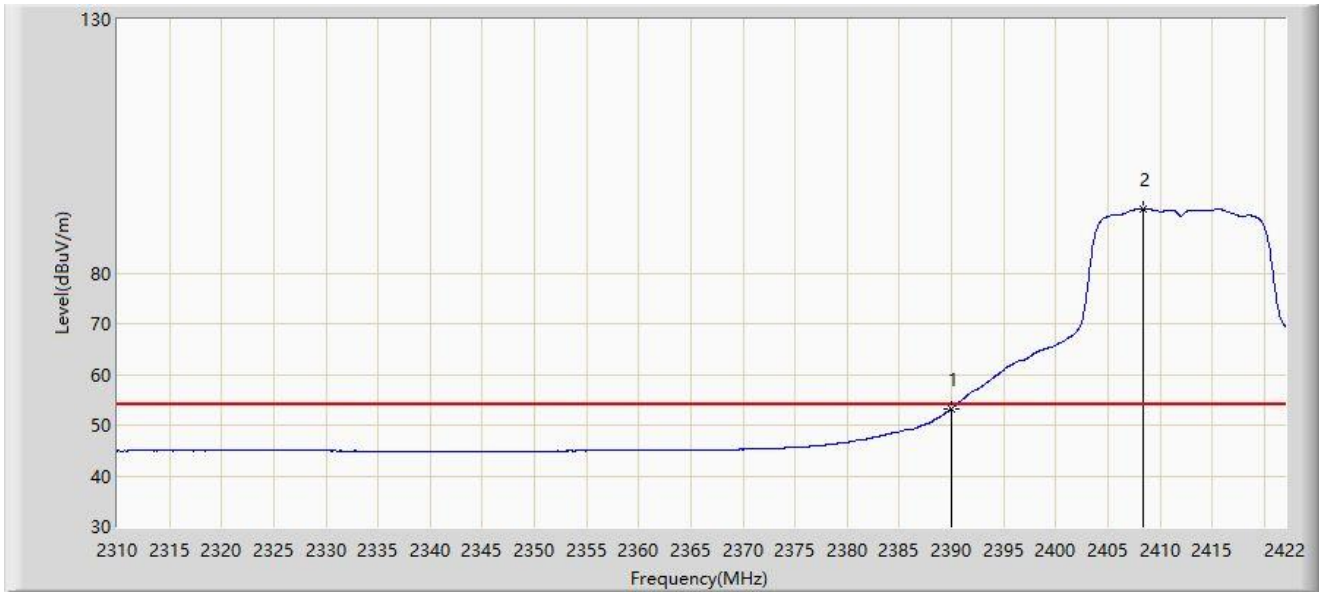
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2389.912	69.440	37.057	-4.560	74.000	32.383	PK
2		2390.000	69.001	36.618	-4.999	74.000	32.382	PK
3		2411.920	101.317	68.983	N/A	N/A	32.334	PK

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11g at 2412MHz	



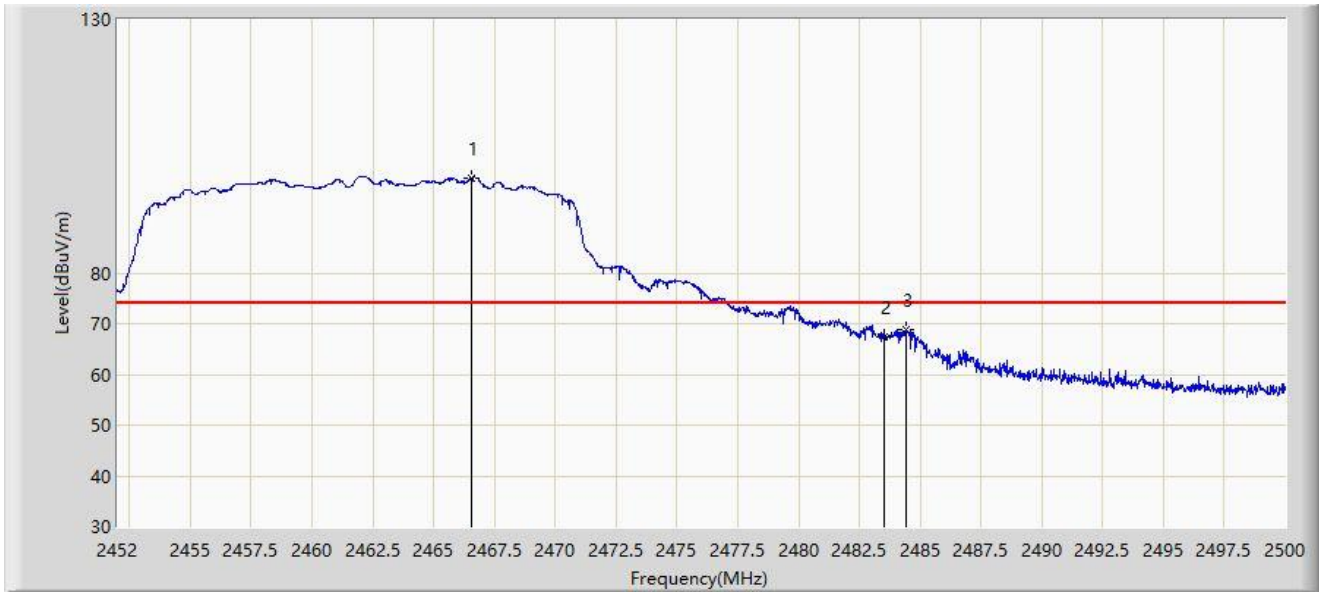
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	53.232	20.849	-0.768	54.000	32.382	AV
2		2408.336	92.722	60.385	N/A	N/A	32.337	AV

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11g at 2462MHz	



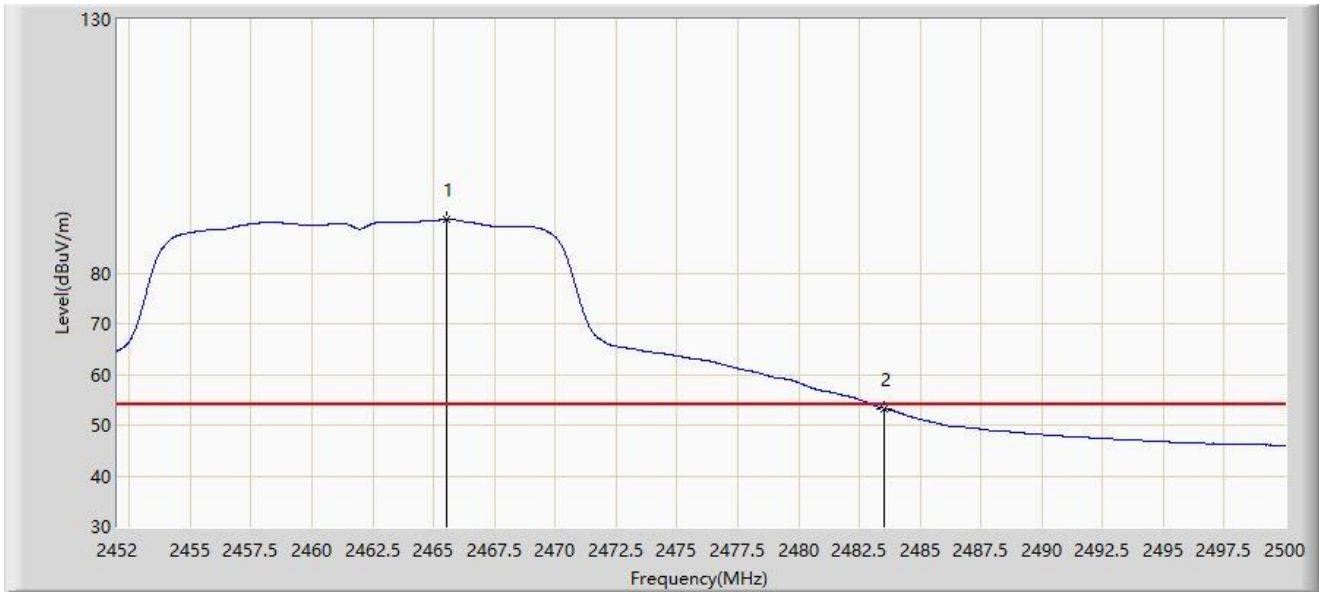
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2466.568	98.808	66.525	N/A	N/A	32.282	PK
2		2483.500	67.492	35.269	-6.508	74.000	32.222	PK
3	*	2484.424	68.715	36.489	-5.285	74.000	32.226	PK

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11g at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2465.560	90.578	58.289	N/A	N/A	32.289	AV
2	*	2483.500	53.325	21.102	-0.675	54.000	32.222	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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11g at 2462MHz	



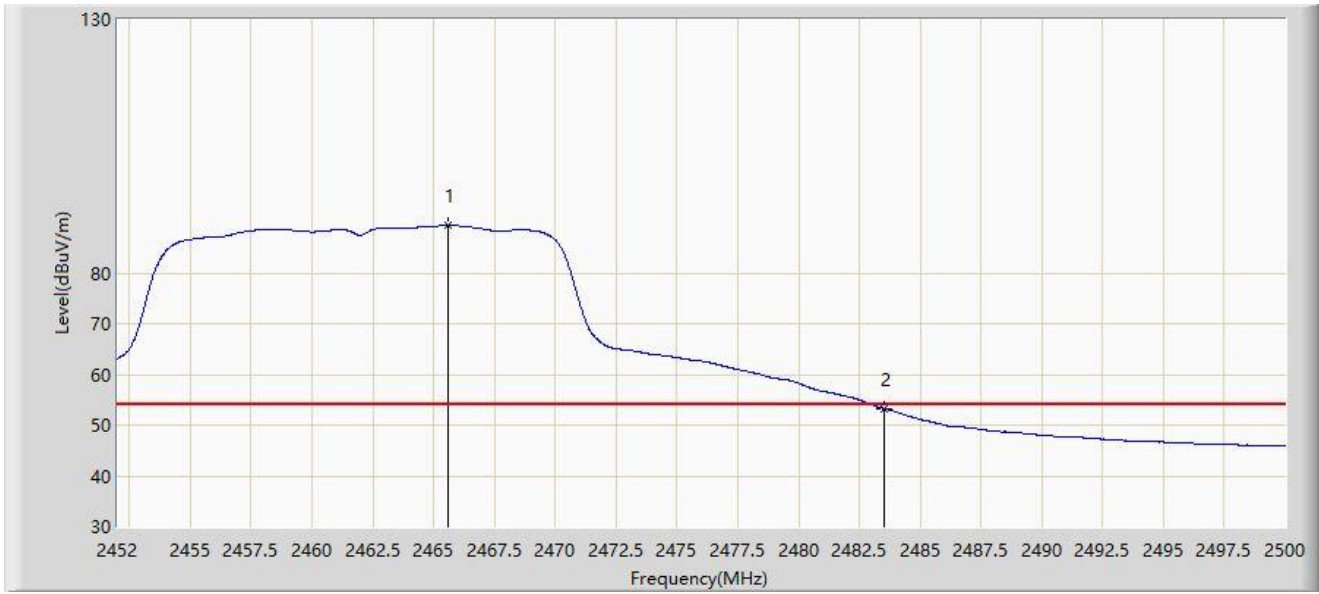
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2461.960	98.190	65.880	N/A	N/A	32.310	PK
2		2483.500	67.533	35.310	-6.467	74.000	32.222	PK
3	*	2484.472	69.022	36.796	-4.978	74.000	32.226	PK

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11g at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2465.584	89.473	57.185	N/A	N/A	32.289	AV
2	*	2483.500	53.305	21.082	-0.695	54.000	32.222	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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



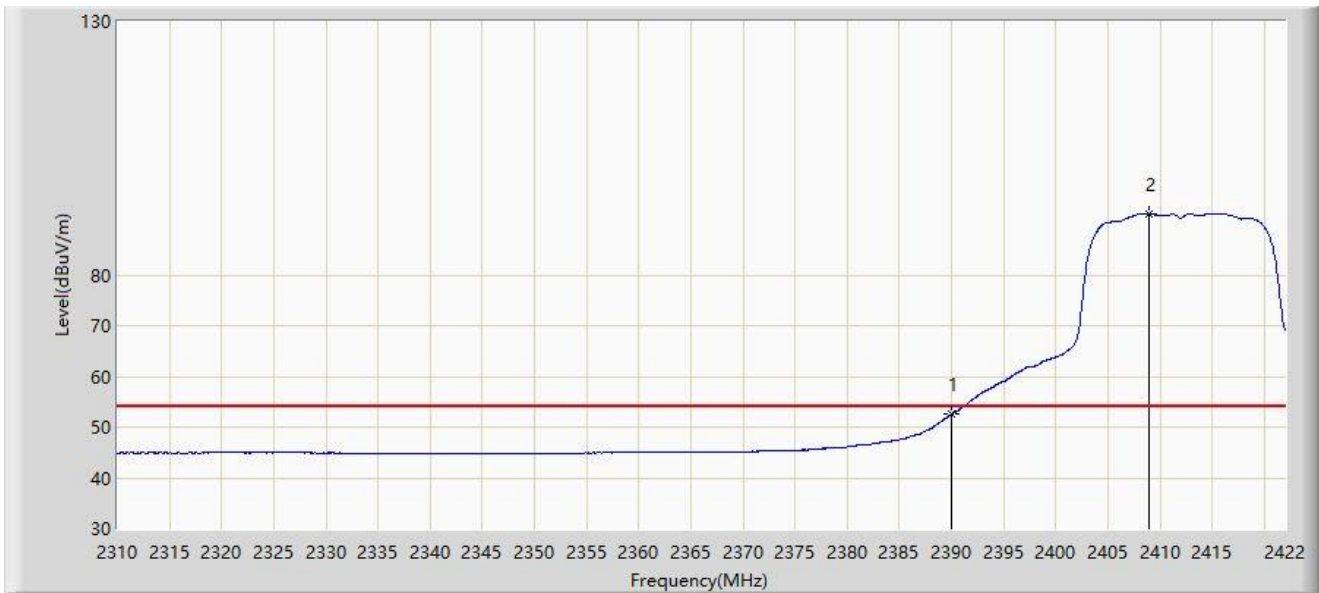
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	68.265	35.882	-5.735	74.000	32.382	PK
2		2412.032	104.794	72.460	N/A	N/A	32.334	PK

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	52.550	20.167	-1.450	54.000	32.382	AV
2		2408.896	92.048	59.712	N/A	N/A	32.337	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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



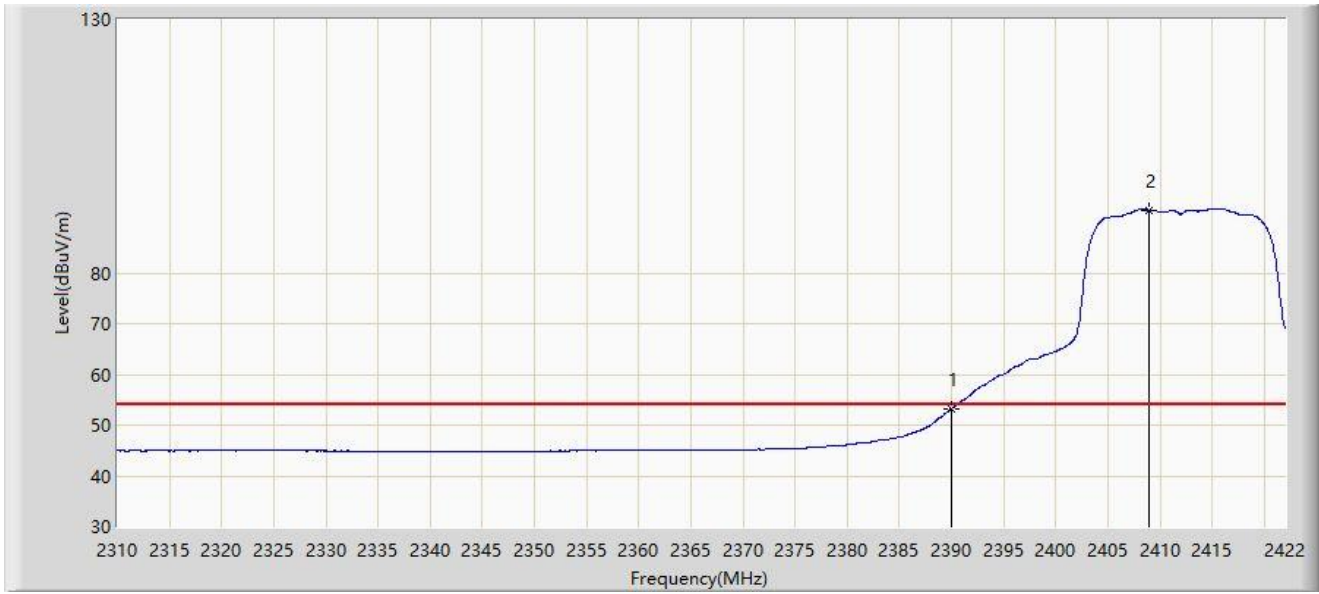
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	69.325	36.942	-4.675	74.000	32.382	PK
2		2412.032	105.127	72.793	N/A	N/A	32.334	PK

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



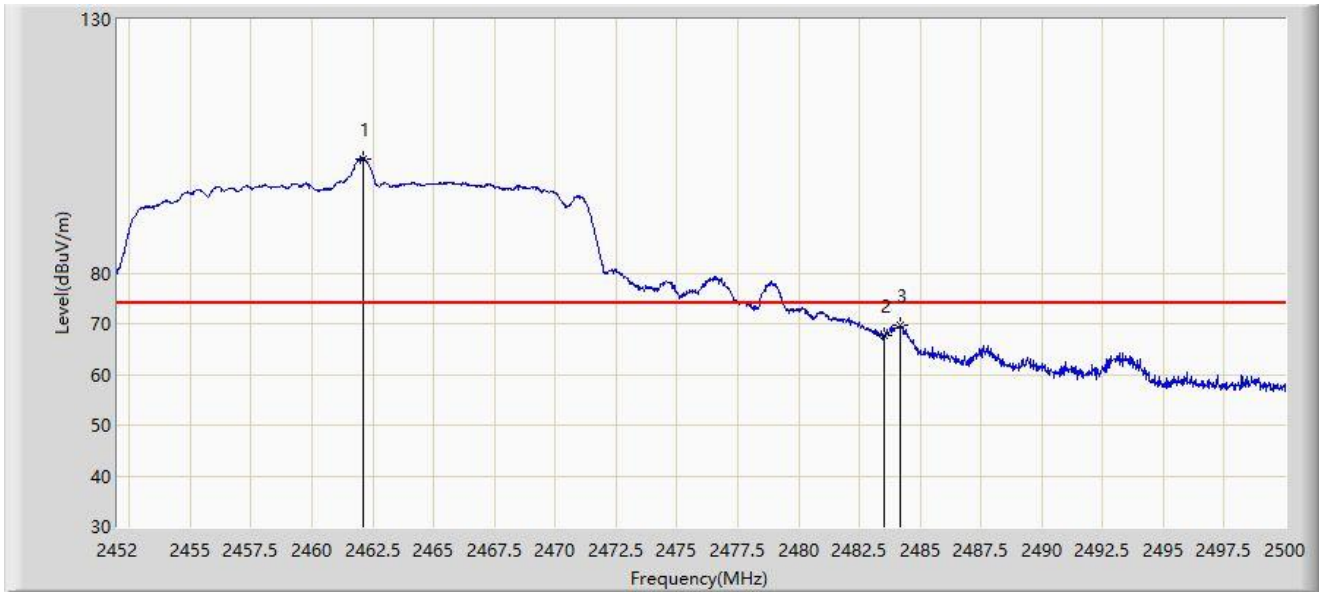
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	53.281	20.898	-0.719	54.000	32.382	AV
2		2408.896	92.434	60.098	N/A	N/A	32.337	AV

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	



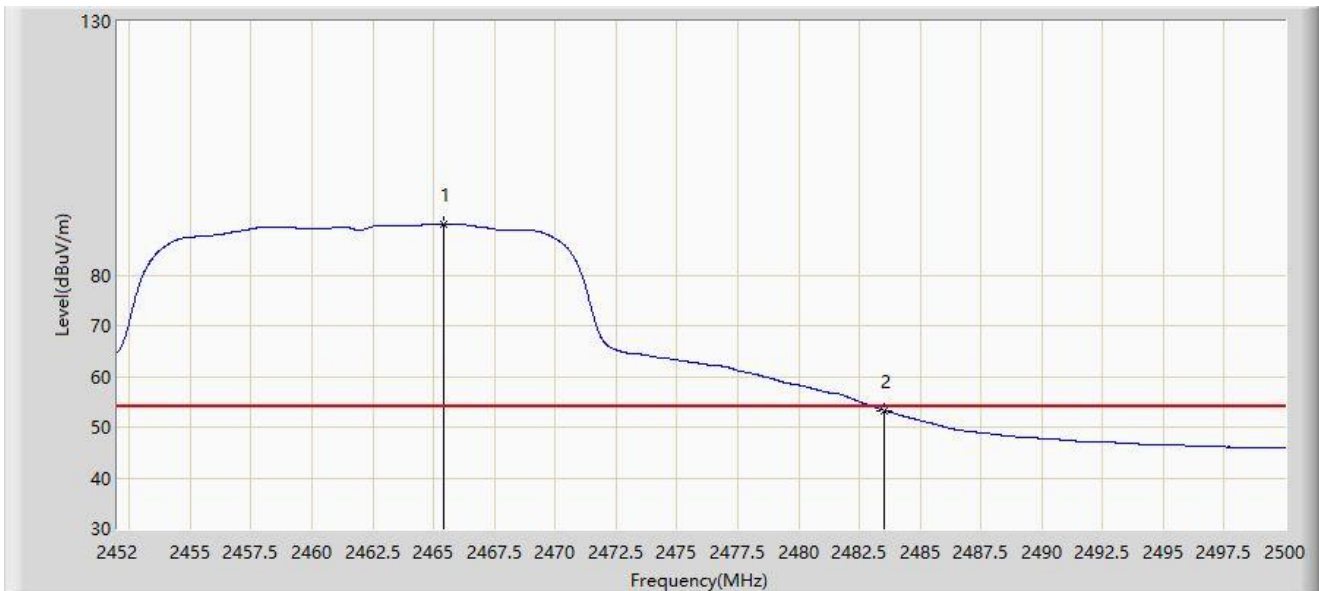
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2462.128	102.537	70.228	N/A	N/A	32.309	PK
2		2483.500	67.797	35.574	-6.203	74.000	32.222	PK
3	*	2484.208	69.836	37.611	-4.164	74.000	32.225	PK

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2465.416	89.936	57.646	N/A	N/A	32.290	AV
2	*	2483.500	53.328	21.105	-0.672	54.000	32.222	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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	



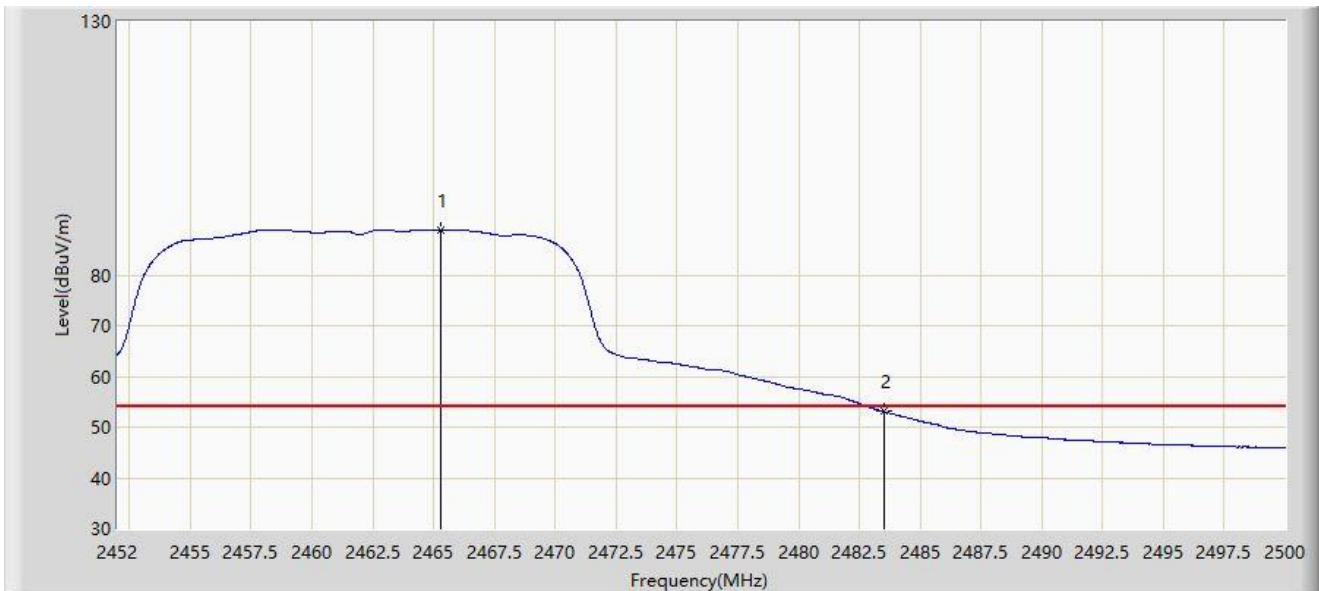
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2462.056	101.735	69.425	N/A	N/A	32.310	PK
2		2483.500	66.262	34.039	-7.738	74.000	32.222	PK
3	*	2484.040	68.161	35.937	-5.839	74.000	32.224	PK

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: SIP-AC2	Test Date: 2023-05-09
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: System Health Monitoring Device	Power: DC 8V
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2465.272	88.865	56.575	N/A	N/A	32.290	AV
2	*	2483.500	53.047	20.824	-0.953	54.000	32.222	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).

Appendix B – Test Setup Photograph

Refer to “2304RSU037-UT” file.

Appendix C – EUT Photograph

Refer to “2304RSU037-UE” file.

The End
