RF MEASUREMENT REPORT

IC:	616A-MXWNDX8G
Applicant:	Shure Incorporated
Product:	Networked Docking Station
Model No.:	MXWNDX8G
Trademark:	SHURE
ISED Rule(s):	RSS-247 Issue 3, RSS-GEN Issue 5
Result:	Complies
Received Date:	2024-07-01
Test Date:	2024-08-03 ~ 2024-08-28

Reviewed By: Jame Yuan

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

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
2407RSU002-C2	V01	Initial Report	2024-08-28	Valid

CONTENTS

1. General Information

1.1. Applicant

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

1.2. Manufacturer

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

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 Location (Suzhou - Wujiang)** Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of 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: 3261				
	FCC: 291082, TW3261		ISED: TW3261		

1.4. Product Information

Product Name	Networked Docking Station
Model No.	MXWNDX8G
Serial No.	Conducted Measurement: 3DF12079149 Radiated Measurement: 3DF12079377
BLE Specification	BLE only, 1M/2M
Operating Temperature	5°C ~ 40°C
Antenna Information	Refer to section 1.5
Power Type	AC/DC adapter input
Operating Environment	Indoor Use
Accessory	
Adapter	Model No.: SBC10-USB45WPD-UTJ Input: 100-240V~, 50-60Hz, 1.2A Output: 5.0V/9.0V/12.0V/15.0V⎓3.0A, 20.0V⎓2.25A, 45.0W MAX
Remarks: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Bluetooth Frequency	2402 ~ 2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps & 2Mbps
Antenna Type	PIFA Antenna
Antenna Gain	3.66dBi

1.6. Working Frequencies

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz	--	--	--	--

2. Test Configuration

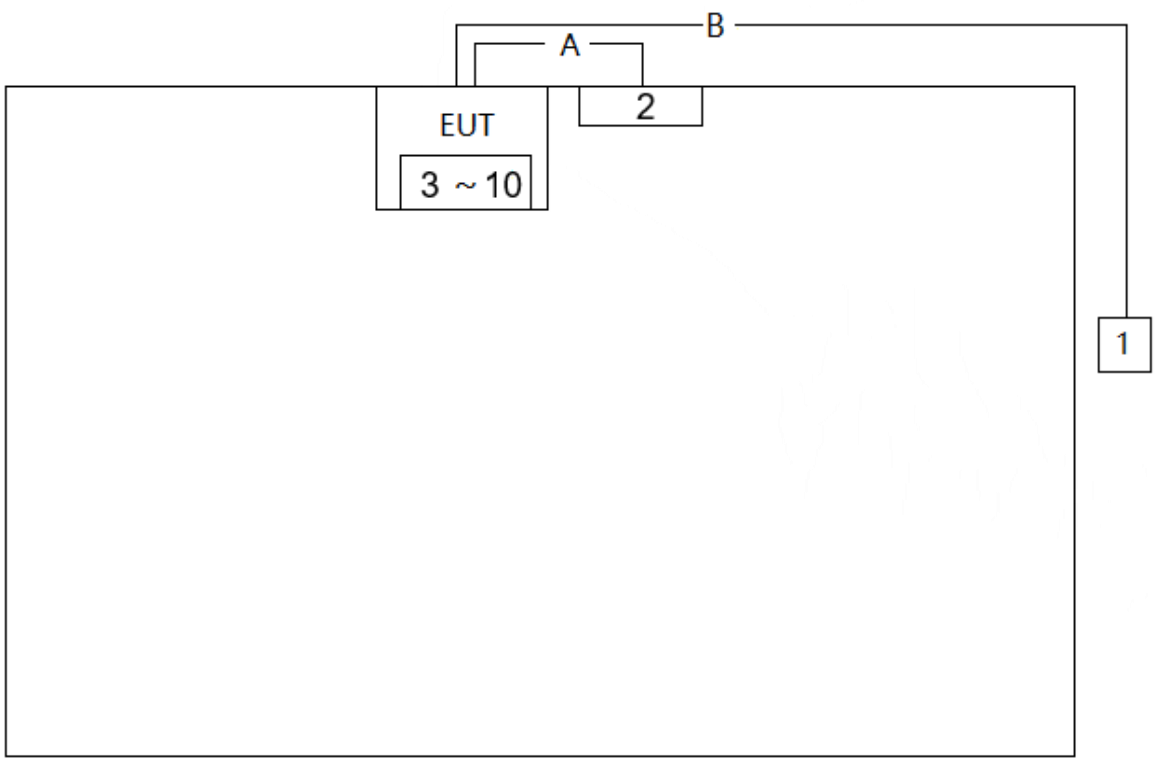
2.1. Test Mode

Mode 1: Transmit by BLE-1Mbps
Mode 2: Transmit by BLE-2Mbps
Mode 3: Receive by BLE-1Mbps
Mode 4: Receive by BLE-2Mbps

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.

Connection Diagram



Cable Type		Cable Description	Length
A	Power Cable	Non-Shielding	1.5m
B	LAN Cable	Cat 5, Shielding	> 10.0m
Product		Manufacturer	Model No.
1	Notebook	HP	ZHAN 66
2	AC/DC Adapter	SHURE	SBC10-USB45WPD-UTJ
3~10	Microphone	SHURE	MXW8X

2.3. Test Software

The test utility software used during testing was “Tera Term”, and the version was 4.103.

2.4. Applied Standards

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

- RSS-247 Issue 3
- RSS-GEN Issue 5
- ANSI C63.10-2013

2.5. Test Environment Condition

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

3. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2025-05-20	WZ-SR5
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2025-07-26	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2024-10-11	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2024-11-09	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2025-05-15	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2025-04-19	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2024-10-23	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2024-10-25	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2024-11-04	WZ-AC1
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2025-01-11	WZ-AC1
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2024-12-04	WZ-AC1
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2025-05-08	WZ-SR2
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2025-05-12	WZ-SR2
Current Probe	FCC	F-52	MRTSUE06494	1 year	2025-04-10	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2024-09-27	WZ-SR2

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802BS	1.02	RE Antenna & Turntable
BenchVue Power Meter	2018.1	Power

4. Decision Rules and Measurement Uncertainty

4.1. 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.)

4.2. 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
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
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
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.2dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.4dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.2dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.7%

5. Test Result

5.1. Summary

RSS Section(s)	Test Description	Test Condition	Verdict
RSS-247 [5.2]	6dB Bandwidth	Conducted	Pass
RSS-Gen [6.7]	99% Bandwidth		Pass
RSS-247 [5.4(d)]	Output Power and EIRP		Pass
RSS-247 [5.2]	Power Spectral Density		Pass
RSS-247 [5.5]	Band Edge / Out-of-Band Emissions		Pass
RSS-247 [5.5]	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
RSS-Gen [8.8]	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	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. All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

5.2. 6dB & 99% Bandwidth Measurement

5.2.1. Test Limit

The minimum 6dB bandwidth shall be 500 kHz.

5.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 6.9.3 (99% Bandwidth)

ANSI C63.10 - 2013 - Section 11.8 (6dB Bandwidth)

5.2.3. Test Setting

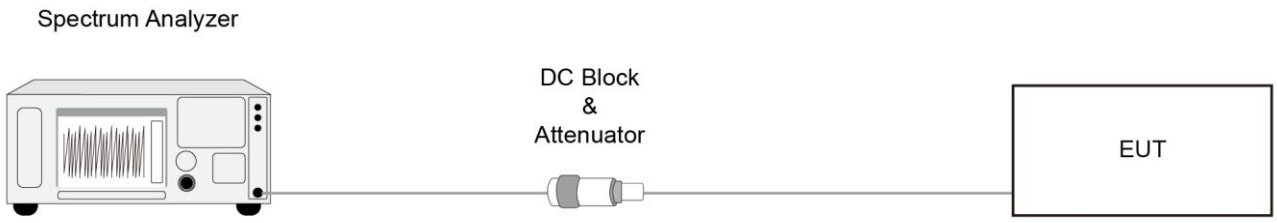
6dB Bandwidth

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. VBW ≥ 3 × RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

99% Bandwidth

1. Span = 1.5 times to 5 times the OBW
2. Set RBW = 1% to 5% the OBW
3. VBW = approximately three times RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

5.2.4. Test Setup



5.2.5. Test Result

Refer to Appendix A.2.

5.3. Output Power and EIRP Measurement

5.3.1. Test Limit

The maximum conducted output power shall not exceed 1 Watt (30dBm) and the EIRP shall not exceed 4 Watt (36dBm).

5.3.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.1.3

ANSI C63.10 - 2013 - Section 11.9.2.3.2

5.3.3. Test Setting

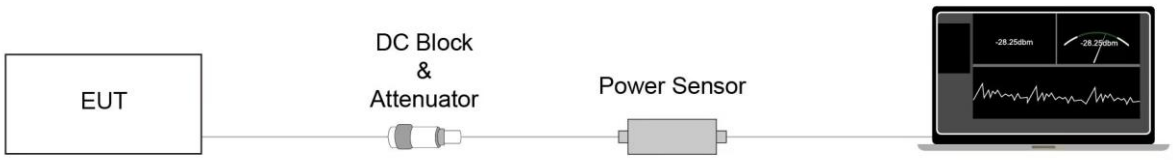
Method PKPM1 (Peak Power Measurement of Signals with DTS BW ≤ 50MHz)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

5.3.4. Test Setup



5.3.5. Test Result

Refer to Appendix A.3.

5.4. Power Spectral Density Measurement

5.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

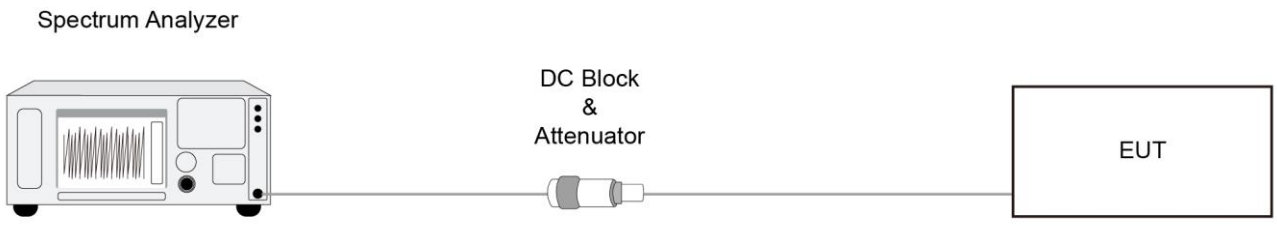
5.4.2. Test Procedure

ANSI C63.10-2013 Section 11.10.2

5.4.3. Test Setting

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 10kHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.4.

5.5. Conducted Band Edge and Out-of-Band Emissions Measurement

5.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

5.5.2. Test Procedure

ANSI C63.10-2013 - Section 11.11

5.5.3. Test Settitng

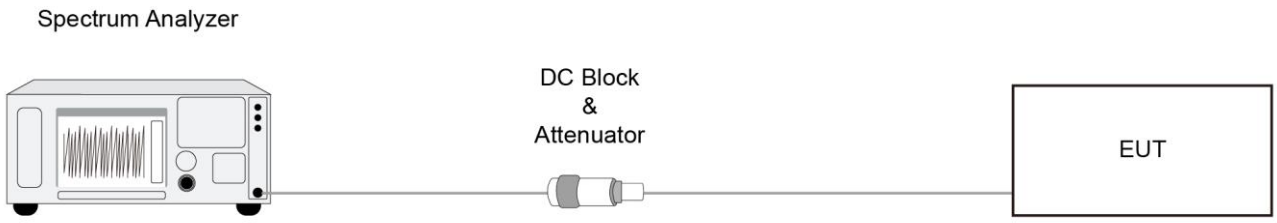
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW ≥ 3 x RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

5.5.4. Test Setup



5.5.5. Test Result

Refer to Appendix A.5.

5.6. Radiated Spurious Emission Measurement

5.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-GEN Issue 5 must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9		
Frequency [MHz]	Field Strength [μA/m]	Measured Distance [Meters]
0.009 - 0.490	6.37/F (kHz)	300
0.490 - 1.705	63.7/F (kHz)	30
1.705 - 30	0.08	30
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3
Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.		

5.6.2. 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)

5.6.3. 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

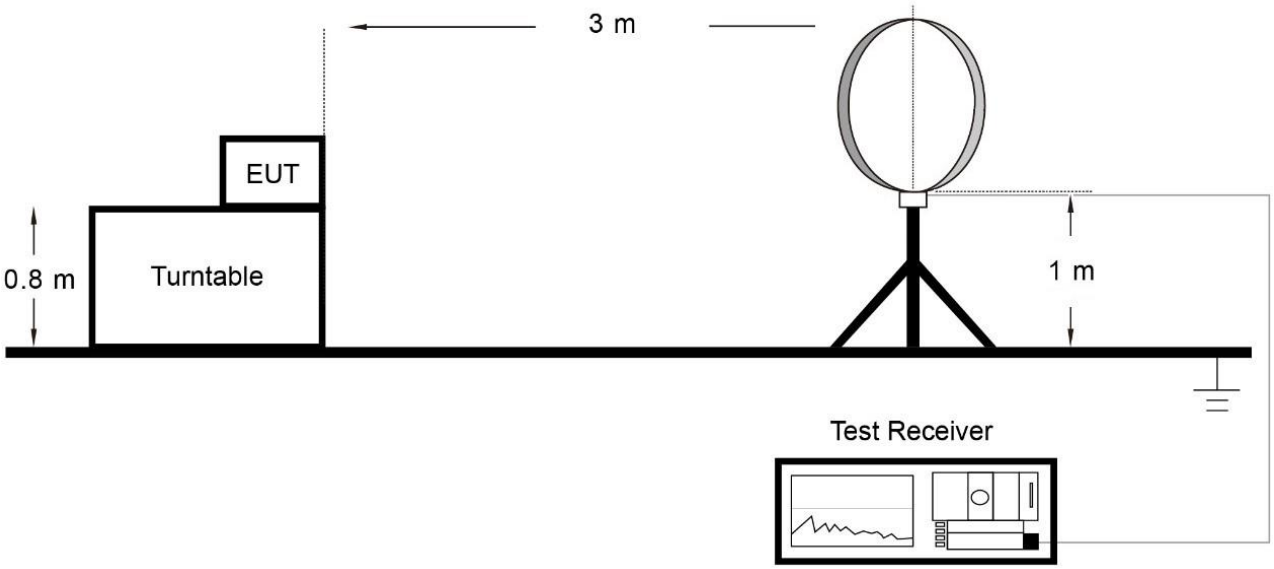
Average Measurements above 1GHz (Method VB)

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 ≥ 98%, set VBW = 10Hz

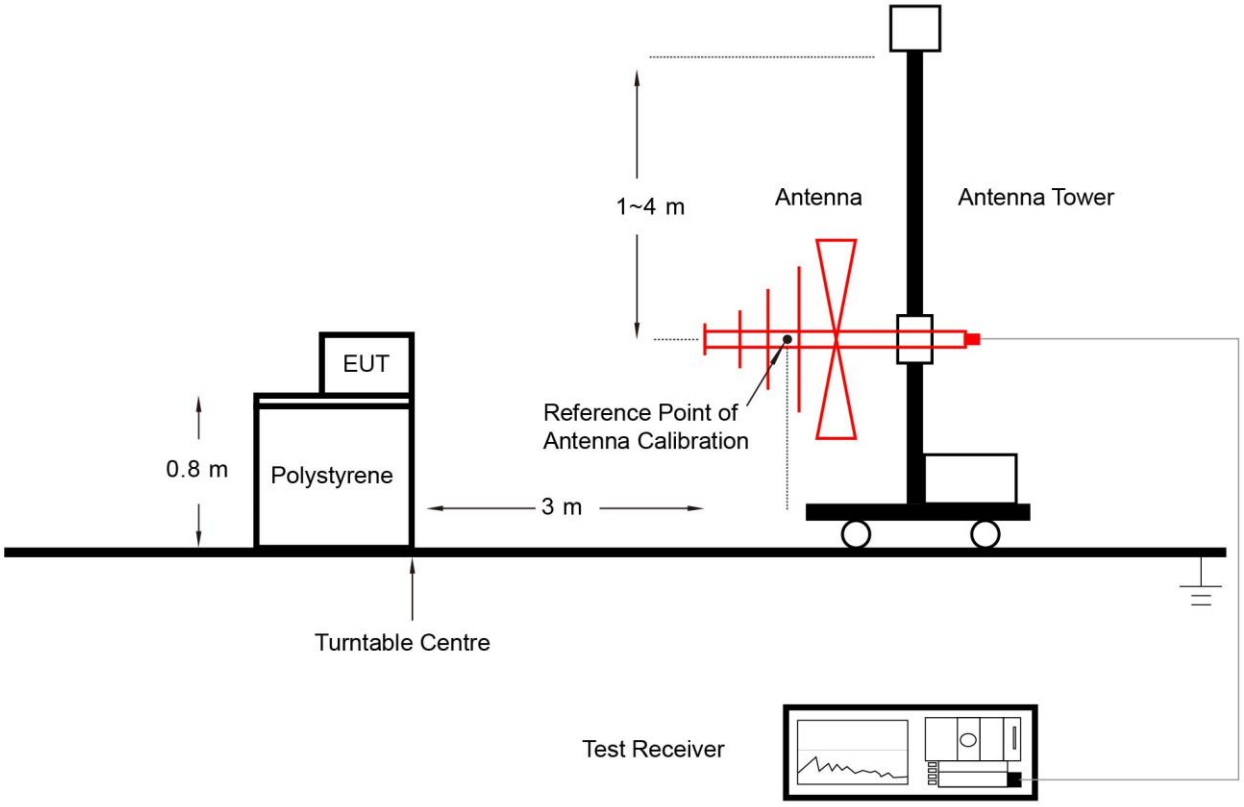
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display 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. Trace was allowed to stabilize

5.6.4. Test Setup

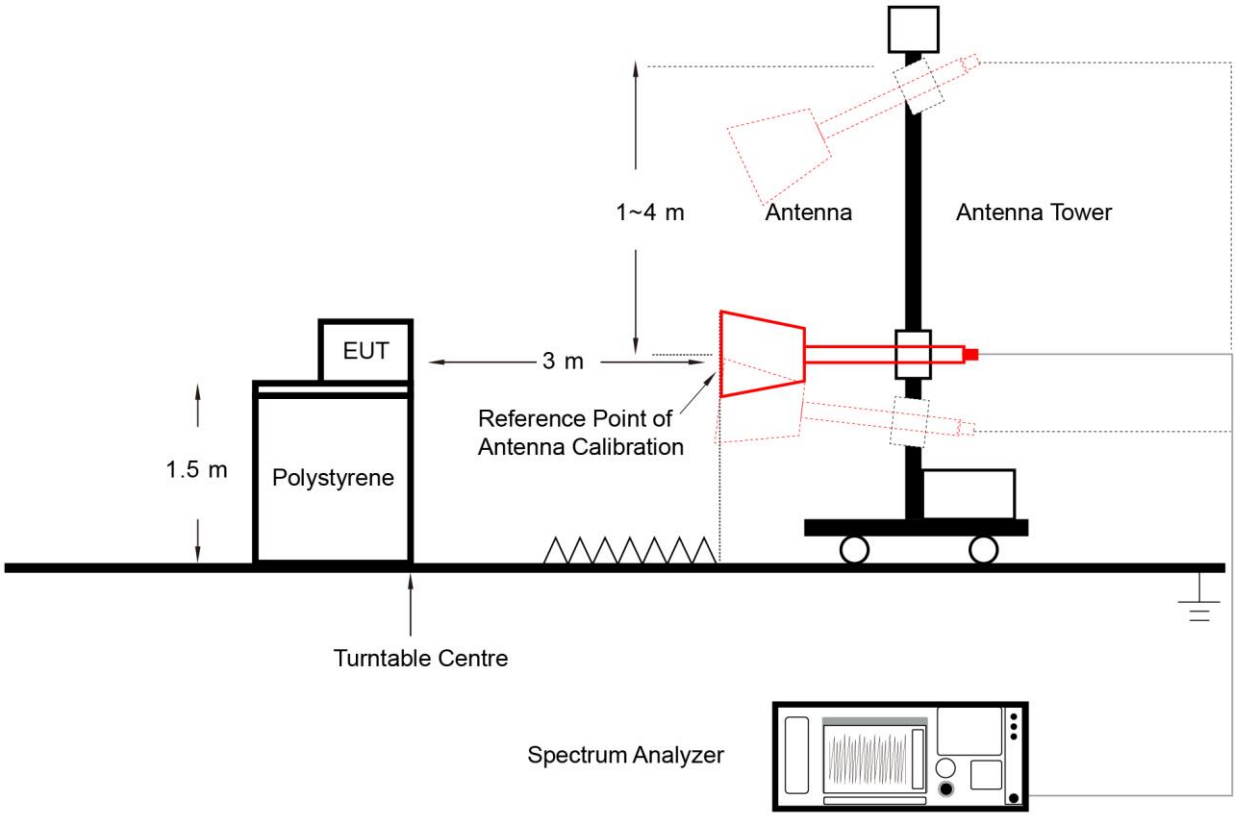
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.6.5. Test Result

Refer to Appendix A.6.

5.7. Radiated Restricted Band Edge Measurement

5.7.1. Test Limit

For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for license exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.
8.37625 - 8.38675	1718.8 -1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 -2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 -13.41	3260 - 3267	
16.42 - 16.423	3332 -3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138	--	

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9		
Frequency [MHz]	Field Strength [μA/m]	Measured Distance [Meters]
0.009 - 0.490	6.37/F (kHz)	300
0.490 - 1.705	63.7/F (kHz)	30
1.705 - 30	0.08	30
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3
Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.		

5.7.2. Test Procedure

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

5.7.3. Test Setting

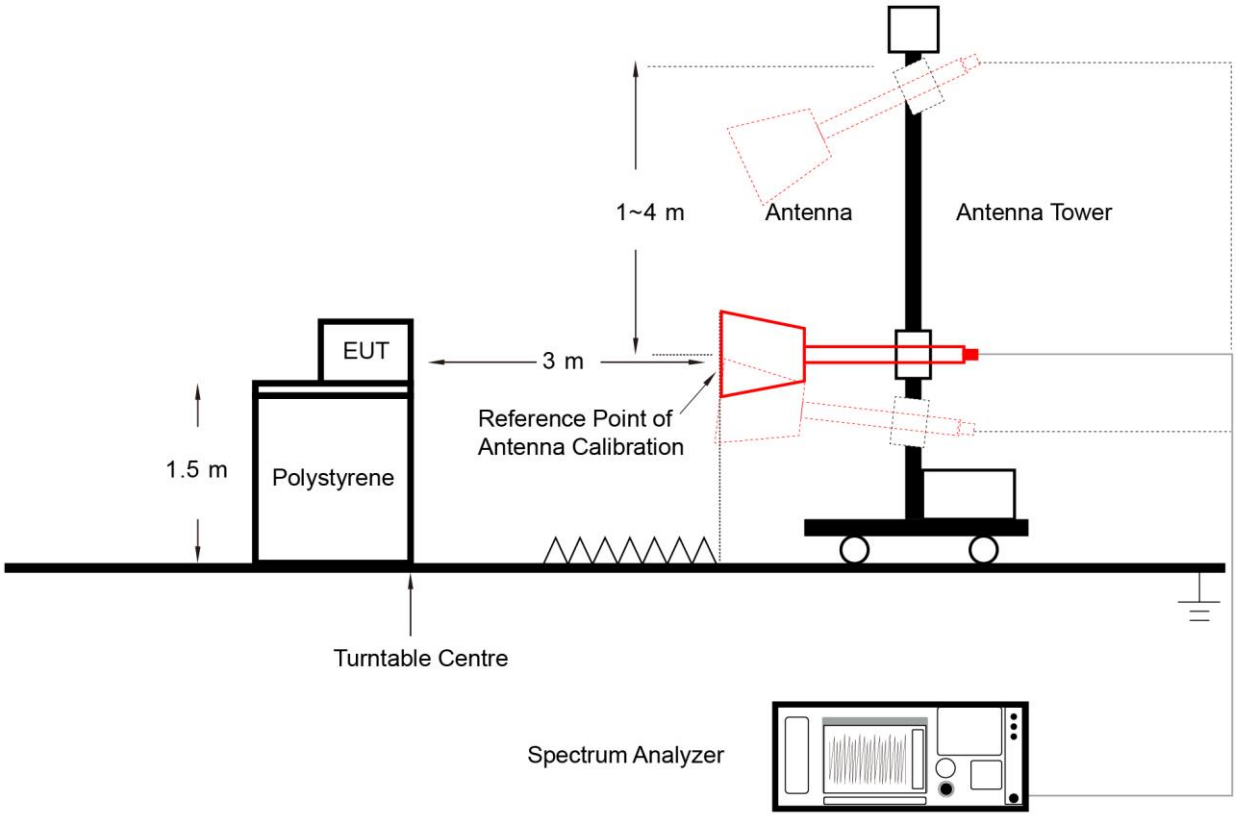
Peak Field Strength Measurements

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; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
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

5.7.4. Test Setup



5.7.5. Test Result

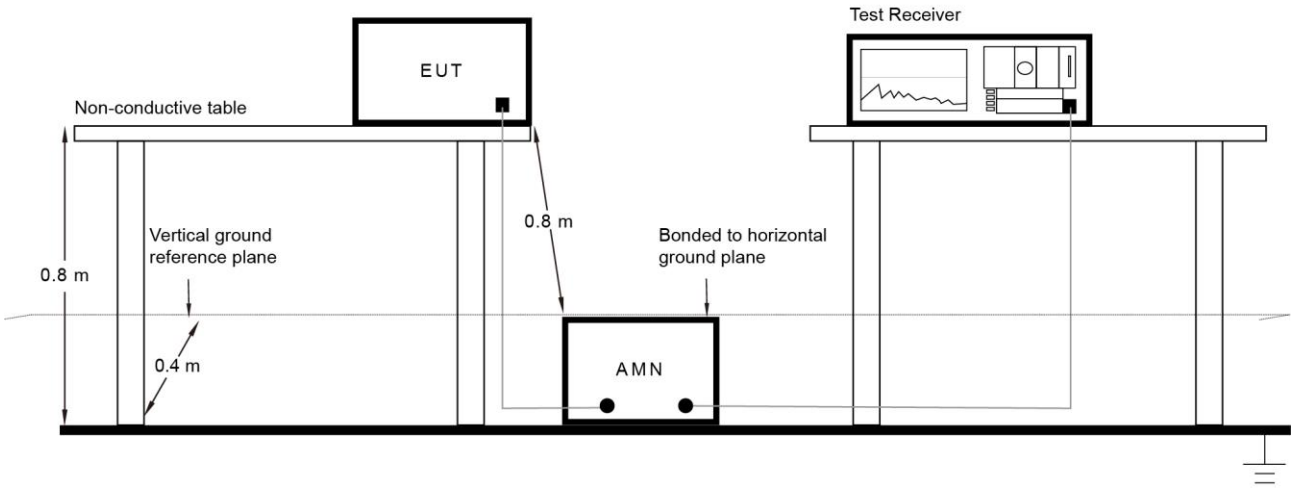
Refer to Appendix A.7.

5.8. AC Conducted Emissions Measurement

5.8.1. Test Limit

RSS-GEN Issue 5 Section 8.8 Limits		
Frequency (MHz)	QP (dBµV)	AV (dBµV)
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.		

5.8.2. Test Setup



5.8.3. Test Result

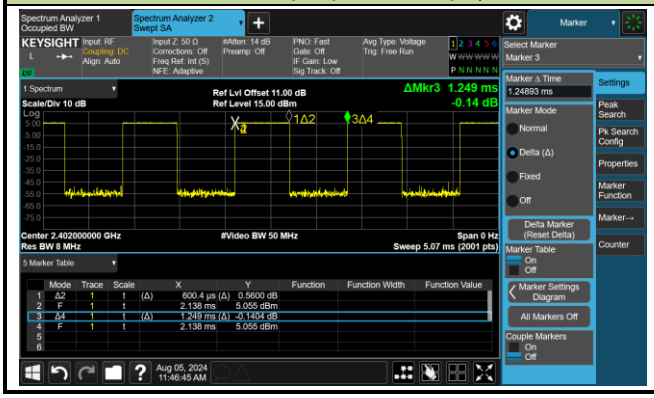
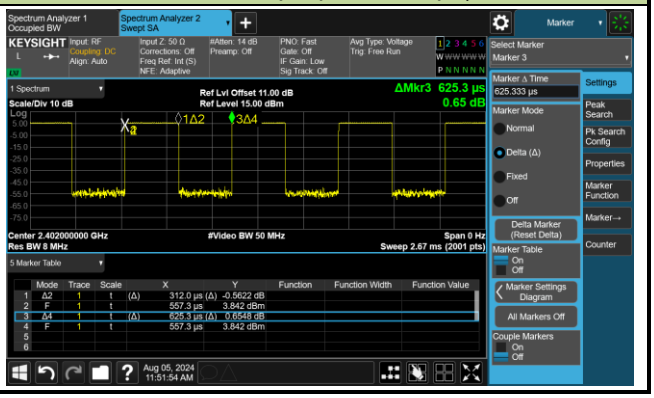
Refer to Appendix A.8.

Appendix A – Test Result

A.1 Duty Cycle Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-05		

Test Mode	Duty Cycle
BLE-1Mbps	48.07%
BLE-2Mbps	49.90%

Duty Cycle (T = Transmission Duration)	
BLE-1Mbps (T = 600.4μs)	BLE-2Mbps (T = 312.0μs)
	

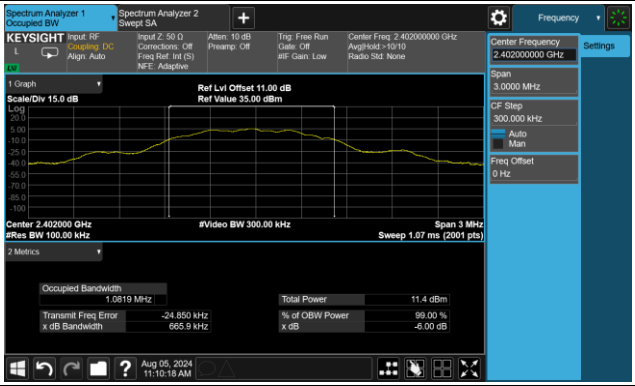
A.2 6dB & 99% Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-05	Test Item	6dB Bandwidth

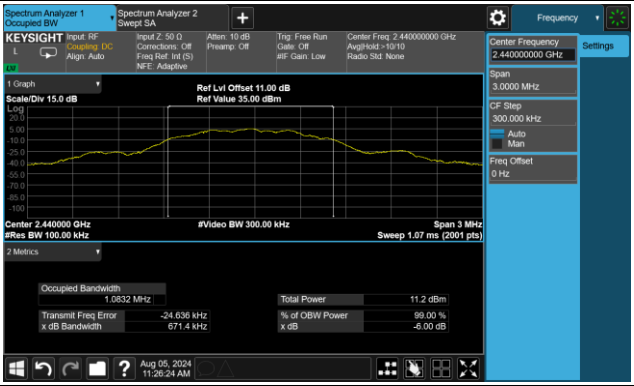
Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.6659	≥ 0.5
BLE	1Mbps	19	2440	0.6714	≥ 0.5
BLE	1Mbps	39	2480	0.6553	≥ 0.5
BLE	2Mbps	00	2402	1.0520	≥ 0.5
BLE	2Mbps	19	2440	0.9671	≥ 0.5
BLE	2Mbps	39	2480	1.0530	≥ 0.5

BLE-1Mbps 6dB Bandwidth

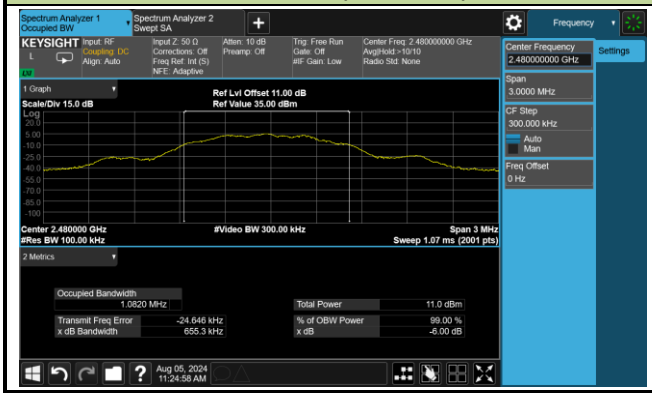
Channel 00 (2402MHz)

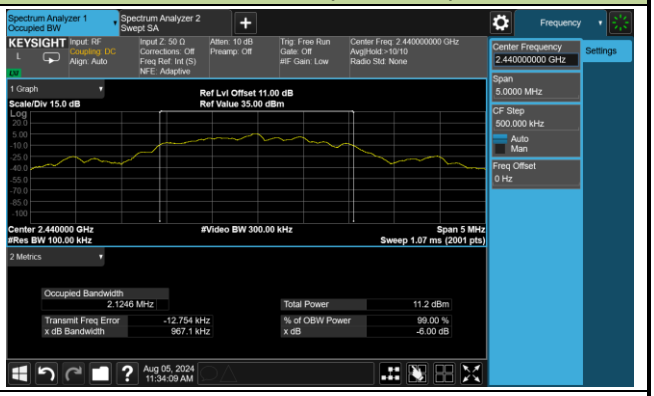


Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps 6dB Bandwidth	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

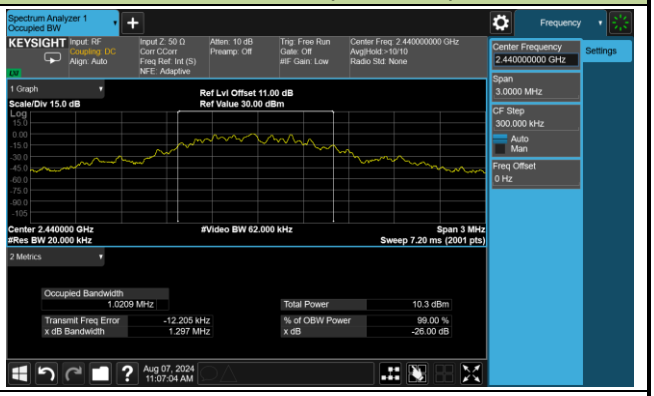
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-07	Test Item	99% Bandwidth

Test Mode	Data Rate	Channel No.	Frequency (MHz)	99% Bandwidth (MHz)
BLE	1Mbps	00	2402	1.0229
BLE	1Mbps	19	2440	1.0209
BLE	1Mbps	39	2480	1.0201
BLE	2Mbps	00	2402	2.0575
BLE	2Mbps	19	2440	2.0552
BLE	2Mbps	39	2480	2.0526

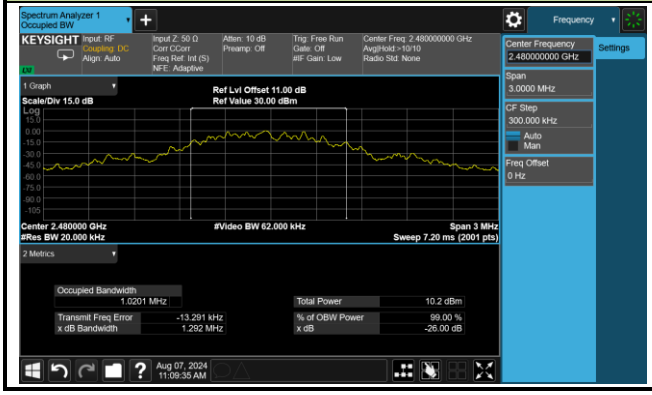
BLE-1Mbps 99% Bandwidth

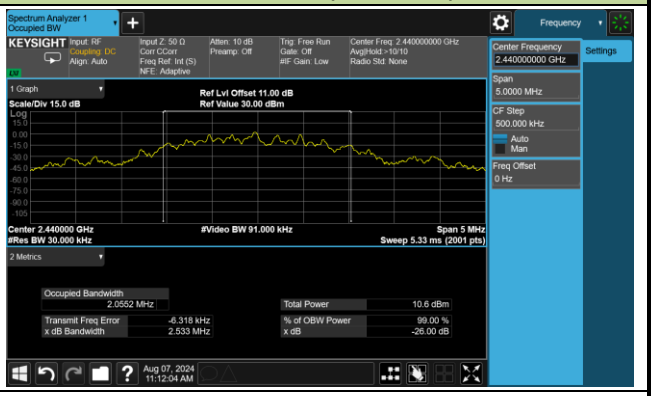
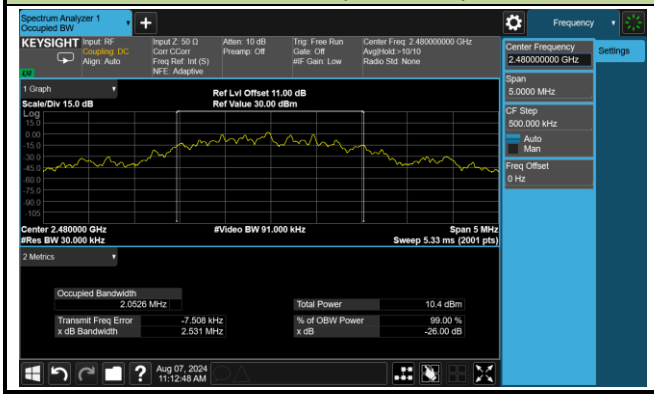
Channel 00 (2402MHz)

Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps 99% Bandwidth	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

A.3 Output Power and EIRP Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-07		

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit(dBm)	Result
BLE	1Mbps	00	2402	5.68	≤ 30.00	9.34	≤ 36.00	Pass
BLE	1Mbps	19	2440	5.50	≤ 30.00	9.16	≤ 36.00	Pass
BLE	1Mbps	39	2480	5.41	≤ 30.00	9.07	≤ 36.00	Pass
BLE	2Mbps	00	2402	5.66	≤ 30.00	9.32	≤ 36.00	Pass
BLE	2Mbps	19	2440	5.50	≤ 30.00	9.16	≤ 36.00	Pass
BLE	2Mbps	39	2480	5.42	≤ 30.00	9.08	≤ 36.00	Pass

Note: EIRP (dBm) = Peak Power (dBm) + Antenna Gain (dBi).

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit(dBm)	Result
BLE	1Mbps	00	2402	5.36	≤ 30.00	9.02	≤ 36.00	Pass
BLE	1Mbps	19	2440	5.20	≤ 30.00	8.86	≤ 36.00	Pass
BLE	1Mbps	39	2480	5.13	≤ 30.00	8.79	≤ 36.00	Pass
BLE	2Mbps	00	2402	5.35	≤ 30.00	9.01	≤ 36.00	Pass
BLE	2Mbps	19	2440	5.19	≤ 30.00	8.85	≤ 36.00	Pass
BLE	2Mbps	39	2480	5.12	≤ 30.00	8.78	≤ 36.00	Pass

Note: EIRP (dBm) = Average Power (dBm) + Antenna Gain (dBi).

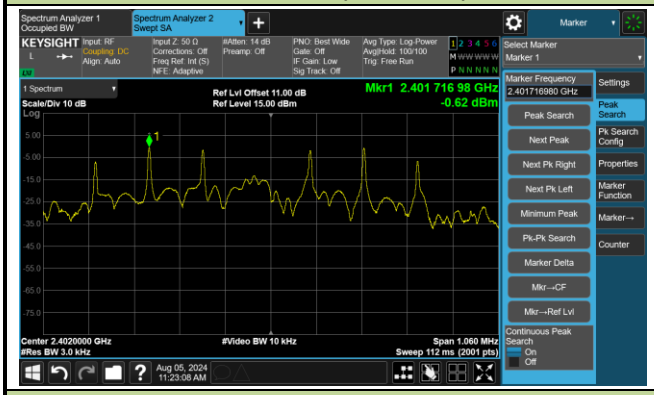
A.4 Power Spectral Density Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-05		

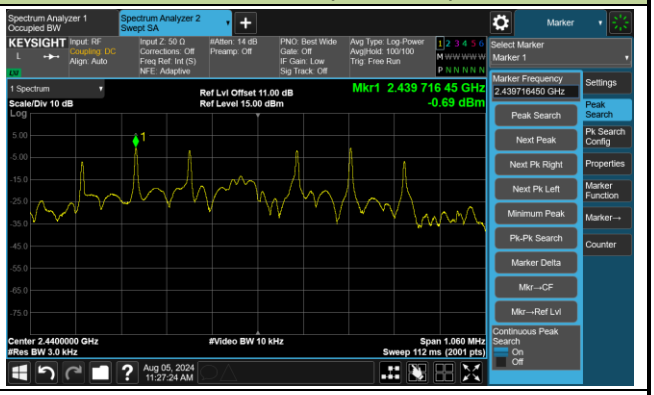
Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-0.62	≤ 8.00	Pass
BLE	1Mbps	19	2440	-0.69	≤ 8.00	Pass
BLE	1Mbps	39	2480	-0.80	≤ 8.00	Pass
BLE	2Mbps	00	2402	-1.78	≤ 8.00	Pass
BLE	2Mbps	19	2440	-1.93	≤ 8.00	Pass
BLE	2Mbps	39	2480	-1.98	≤ 8.00	Pass

BLE-1Mbps PSD

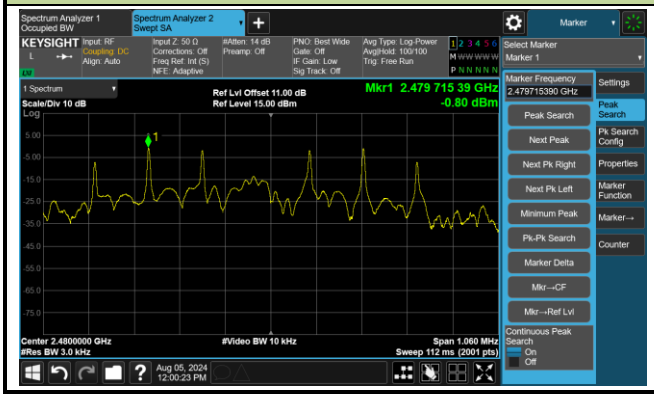
Channel 00 (2402MHz)

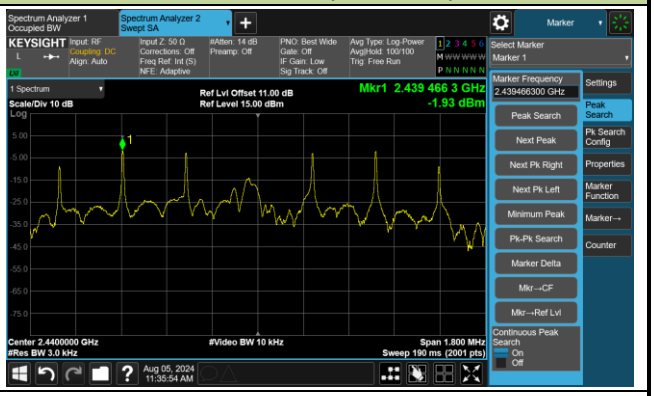
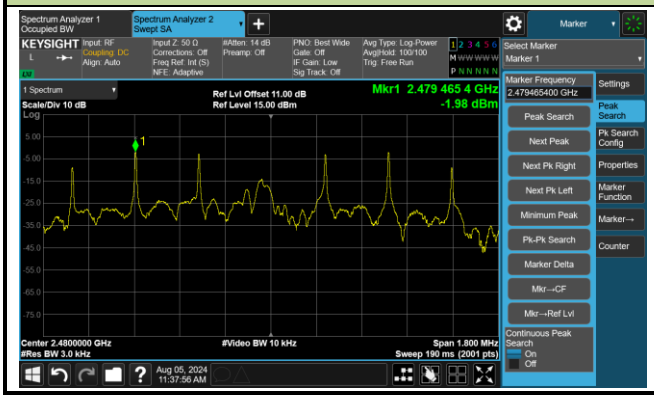


Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps PSD	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

A.5 Conducted Band Edge and Out-of-Band Emissions Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-05		

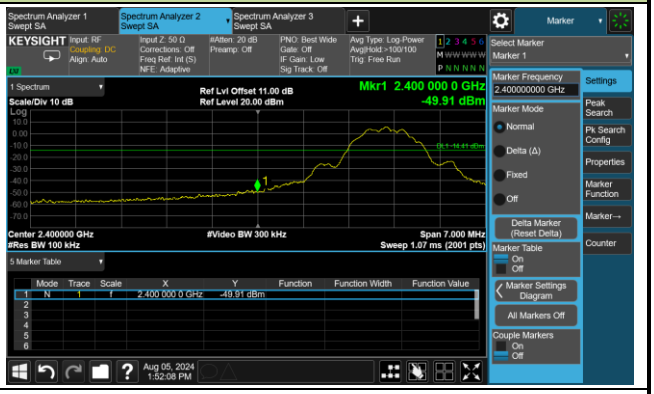
Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	00	2402	20	Pass
BLE	1	19	2440	20	Pass
BLE	1	39	2480	20	Pass
BLE	2	00	2402	20	Pass
BLE	2	19	2440	20	Pass
BLE	2	39	2480	20	Pass

BLE-1Mbps Out-of-Band Emissions

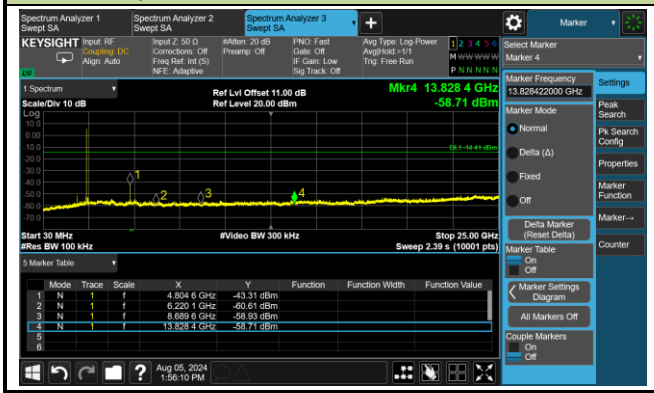
Channel 00 (2402MHz)

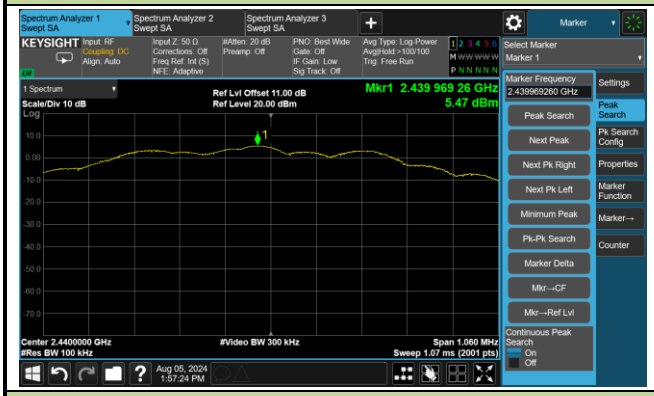
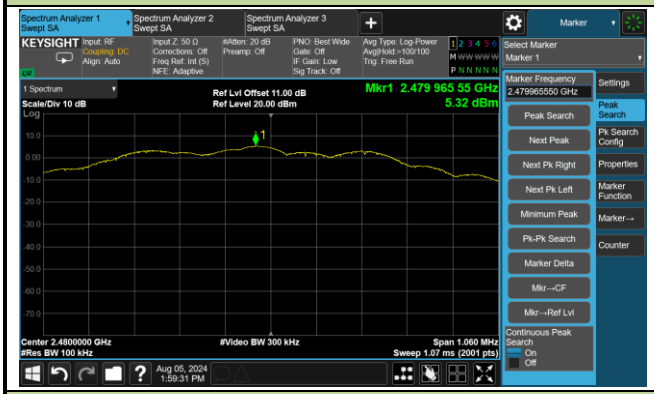
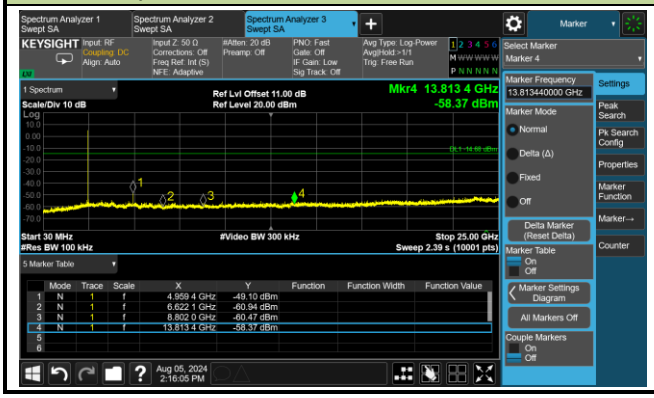
100kHz PSD Reference Level

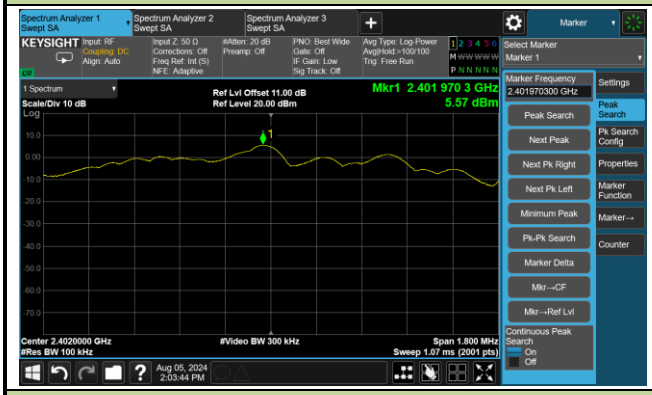
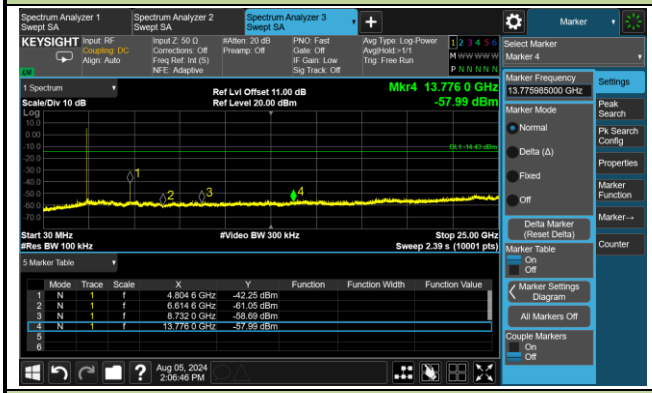
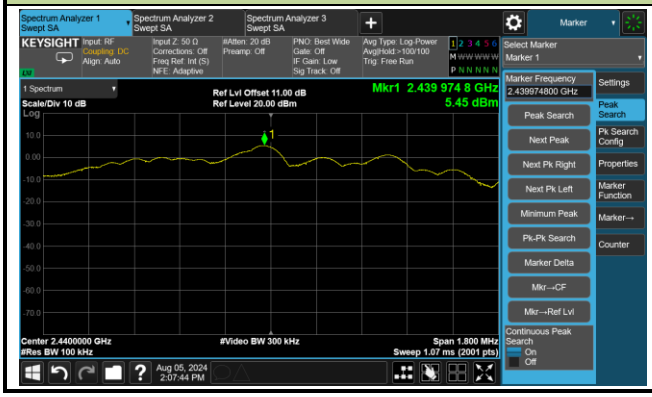
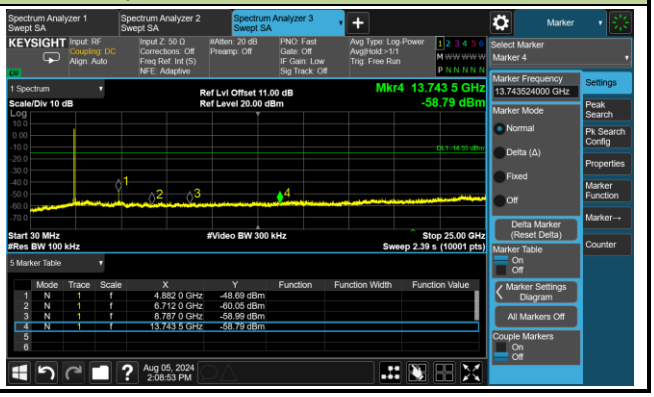
Low Band Edge

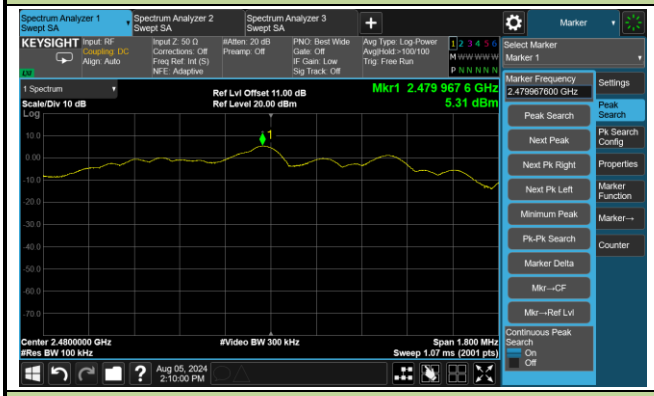
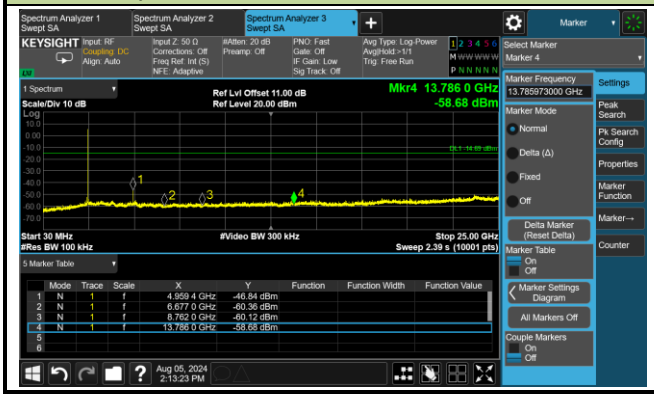


Spurious Emission 30MHz ~ 25GHz



Channel 19 (2440MHz)	
100kHz PSD Reference Level	Spurious Emission 30MHz ~ 25GHz
	
Channel 39 (2480MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

BLE-2Mbps Out-of-Band Emissions	
Channel 00 (2402MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	
Channel 19 (2440MHz)	
100kHz PSD Reference Level	Spurious Emission 30MHz ~ 25GHz
	

Channel 39 (2480MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

A.6 Radiated Spurious Emission Test Result

Test Site	WZ-AC2	Test Engineer	Dick Shen
Test Date	2024-08-03	Test Mode:	BLE-1Mbps
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
00	4802.9	42.8	4.0	46.8	74.0	-27.2	Peak	Horizontal
	8245.4	38.2	9.9	48.1	74.0	-25.9	Peak	Horizontal
	10878.7	29.6	15.3	44.9	54.0	-9.1	Average	Horizontal
	4802.9	45.7	4.0	49.6	74.0	-24.4	Peak	Vertical
	8187.6	37.7	10.1	47.8	74.0	-26.2	Peak	Vertical
	11699.8	36.8	14.2	50.9	74.0	-23.1	Peak	Vertical
19	4881.1	46.3	3.9	50.2	74.0	-23.8	Peak	Horizontal
	11378.5	35.7	14.8	50.4	74.0	-23.6	Peak	Horizontal
	11521.3	36.2	14.7	51.0	74.0	-23.0	Peak	Horizontal
	4879.4	47.4	3.9	51.2	54.0	-2.8	Average	Vertical
	8235.2	37.8	9.9	47.7	74.0	-26.3	Peak	Vertical
	12284.6	37.6	13.3	50.9	74.0	-23.1	Peak	Vertical
39	4961	45.2	4.4	49.6	74.0	-24.4	Peak	Horizontal
	7369.9	38.3	9.2	47.5	74.0	-26.6	Peak	Horizontal
	12094.2	29.6	13.5	43.2	54.0	-10.9	Average	Horizontal
	4959.3	41.9	4.4	46.3	54.0	-7.7	Average	Vertical
	8211.4	35.4	10.0	45.4	74.0	-28.7	Peak	Vertical
	11630.1	36.1	14.4	50.5	74.0	-23.5	Peak	Vertical

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

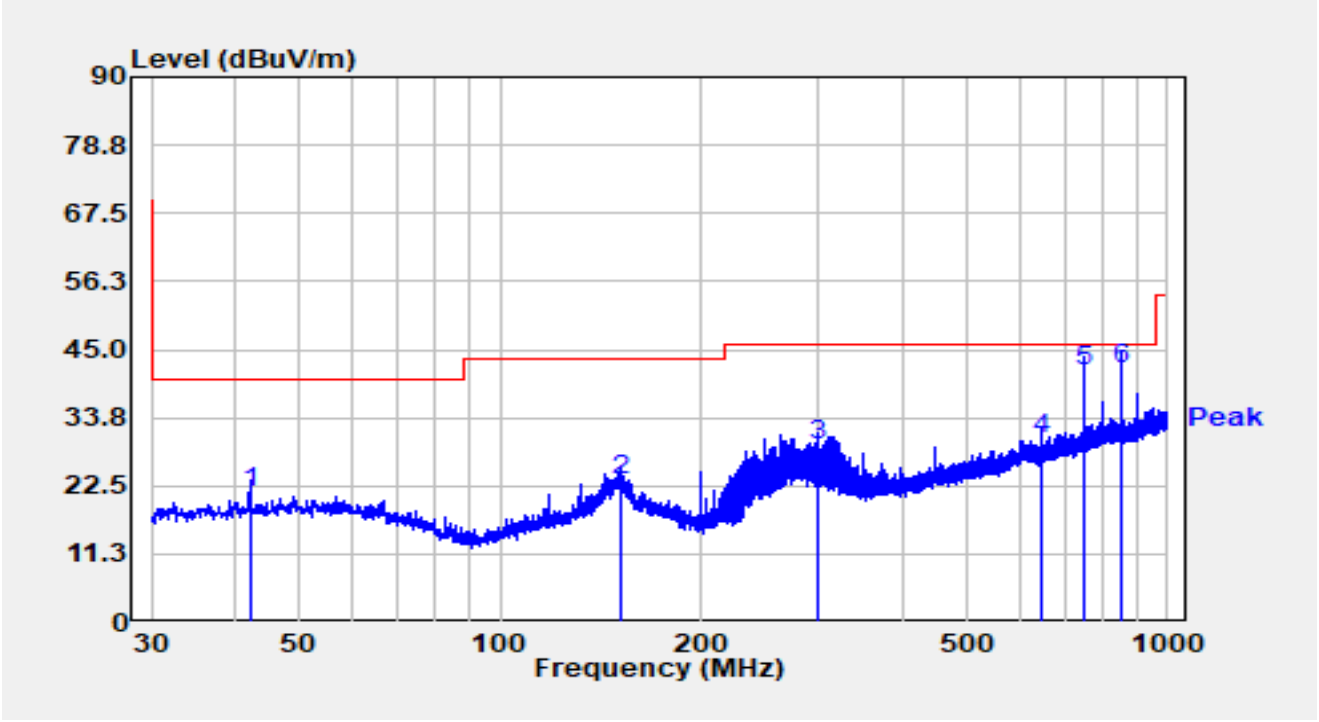
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Dick Shen
Test Date	2024-08-03	Test Mode:	BLE-2Mbps
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
00	4802.9	40.7	4.0	44.7	74.0	-29.3	Peak	Horizontal
	8262.4	37.0	10.0	47.0	74.0	-27.0	Peak	Horizontal
	11546.8	35.6	14.7	50.3	74.0	-23.7	Peak	Horizontal
	4802.9	43.2	4.0	47.1	74.0	-26.9	Peak	Vertical
	8349.1	35.9	10.0	45.9	74.0	-28.1	Peak	Vertical
	11339.4	35.5	14.6	50.1	74.0	-24.0	Peak	Vertical
19	4959.3	44.4	4.4	48.7	74.0	-25.3	Peak	Horizontal
	7417.5	36.3	9.4	45.7	74.0	-28.3	Peak	Horizontal
	11868.1	36.6	13.5	50.1	74.0	-23.9	Peak	Horizontal
	4959.3	40.6	4.4	45.0	54.0	-9.0	Average	Vertical
	7614.7	36.9	9.1	46.1	74.0	-27.9	Peak	Vertical
	11551.9	35.9	14.7	50.6	74.0	-23.5	Peak	Vertical
39	4961	43.8	4.4	48.2	74.0	-25.9	Peak	Horizontal
	11531.5	34.9	14.7	49.6	74.0	-24.4	Peak	Horizontal
	12186	35.5	13.7	49.2	74.0	-24.8	Peak	Horizontal
	4961	42.5	4.4	46.9	54.0	-7.1	Average	Vertical
	7397.1	37.0	9.3	46.3	74.0	-27.7	Peak	Vertical
	11648.8	35.9	14.3	50.2	74.0	-23.8	Peak	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)								

The Result of Radiated Emission below 1GHz:

Site	WZ-AC1	Test Date	2024-08-28
Test Engineer	Ajin Fan	Temp./Humidity	24.5°C /55.4%
Factor	VULB 9168_25-1000MHz	Polarity	Horizontal
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 1M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		42.220	3.21	18.09	21.30	-18.70	40.00	QP
2		151.638	5.02	18.27	23.29	-20.21	43.50	QP
3		300.048	10.53	18.83	29.36	-16.64	46.00	QP
4		650.024	3.74	26.46	30.20	-15.80	46.00	QP
5		750.000	13.00	28.49	41.49	-4.51	46.00	QP
6	*	850.955	12.30	29.60	41.90	-4.10	46.00	QP

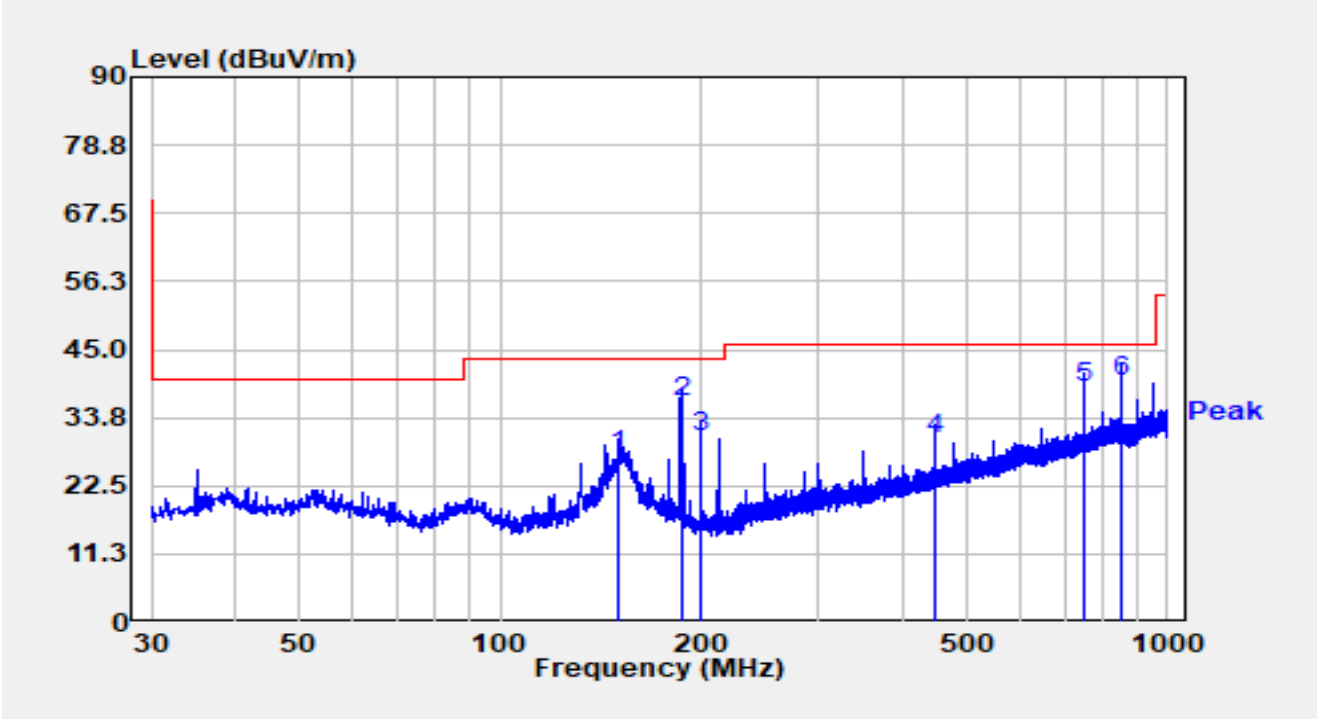
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-28
Test Engineer	Ajin Fan	Temp./Humidity	24.5°C /55.4%
Factor	VULB 9168_25-1000MHz	Polarity	Vertical
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 1M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		150.474	9.32	18.23	27.55	-15.95	43.50	QP
2		188.013	20.30	16.18	36.48	-7.02	43.50	QP
3		199.556	15.21	15.22	30.43	-13.07	43.50	QP
4		450.010	7.52	22.80	30.32	-15.68	46.00	QP
5		750.031	10.21	28.49	38.70	-7.30	46.00	QP
6	*	850.038	10.21	29.61	39.82	-6.18	46.00	QP

Notes:

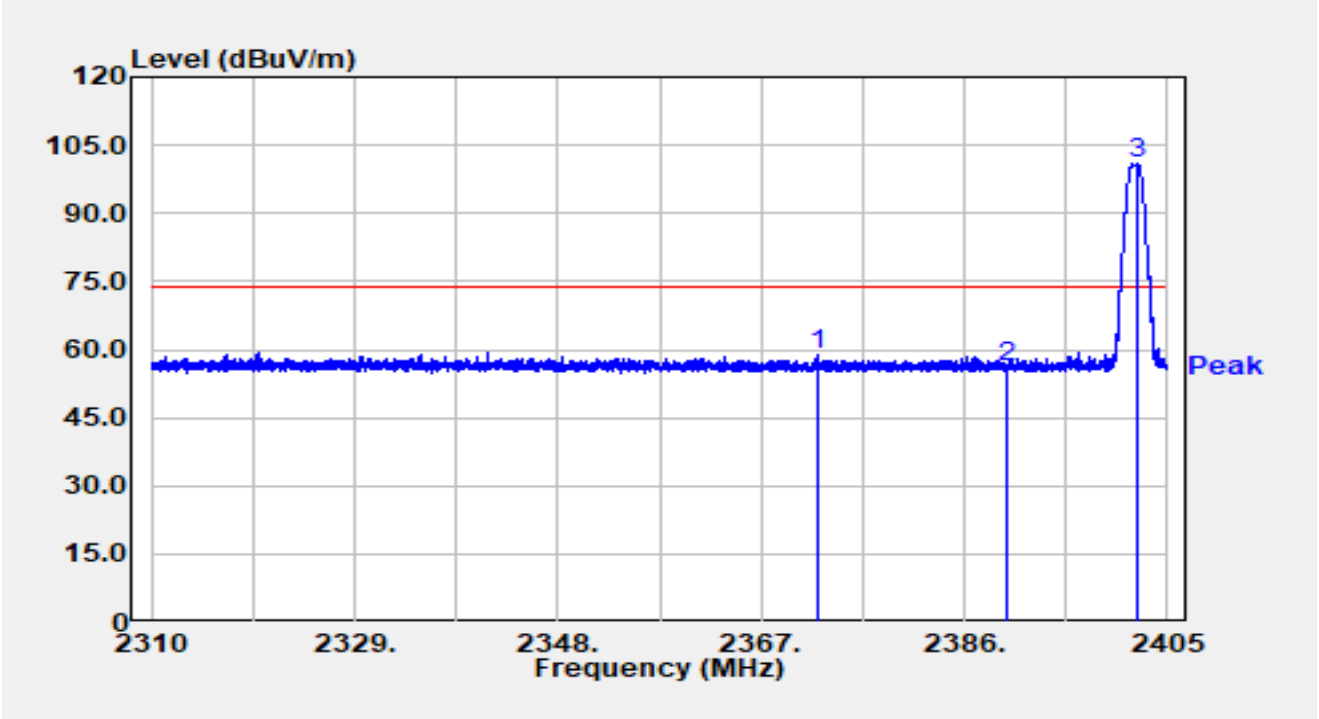
1. " *", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

A.7 Radiated Restricted Band Edge Test Result

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 1M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2372.292	26.74	32.06	58.81	-15.19	74.00	Peak
2		2390.000	23.90	32.04	55.94	-18.06	74.00	Peak
3		2402.226	68.85	32.00	100.85	N/A	N/A	Peak

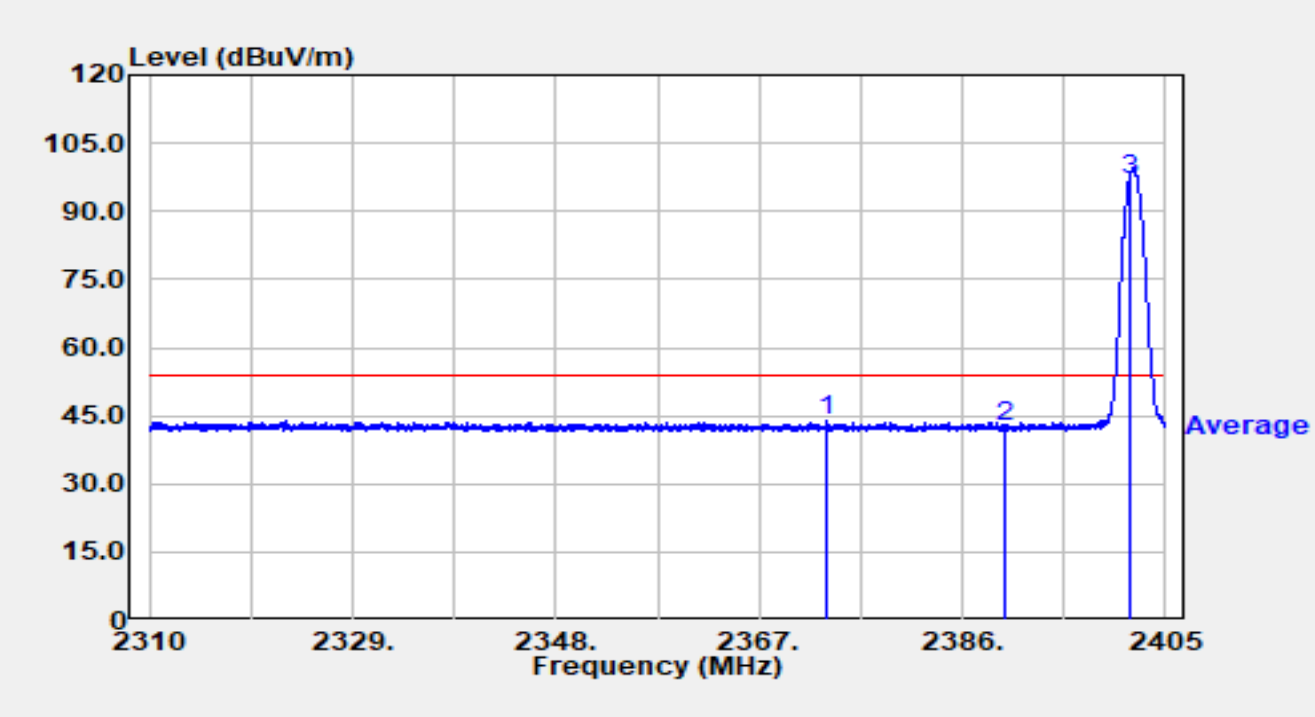
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 1M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2373.270	11.70	32.06	43.77	-10.23	54.00	Average
2		2390.000	10.69	32.04	42.73	-11.27	54.00	Average
3		2401.618	65.12	32.00	97.13	N/A	N/A	Average

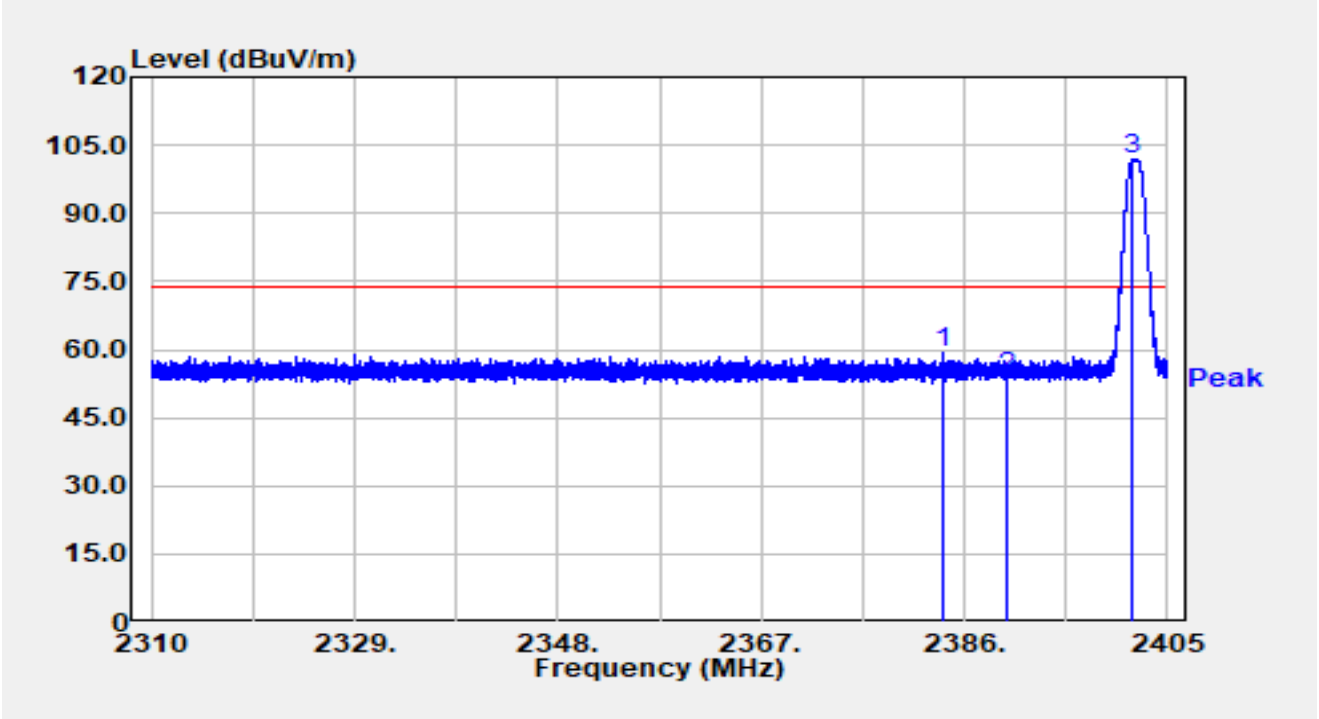
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 1M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2383.996	27.27	32.07	59.33	-14.67	74.00	Peak
2		2390.000	22.07	32.04	54.11	-19.89	74.00	Peak
3		2401.722	69.82	32.00	101.82	N/A	N/A	Peak

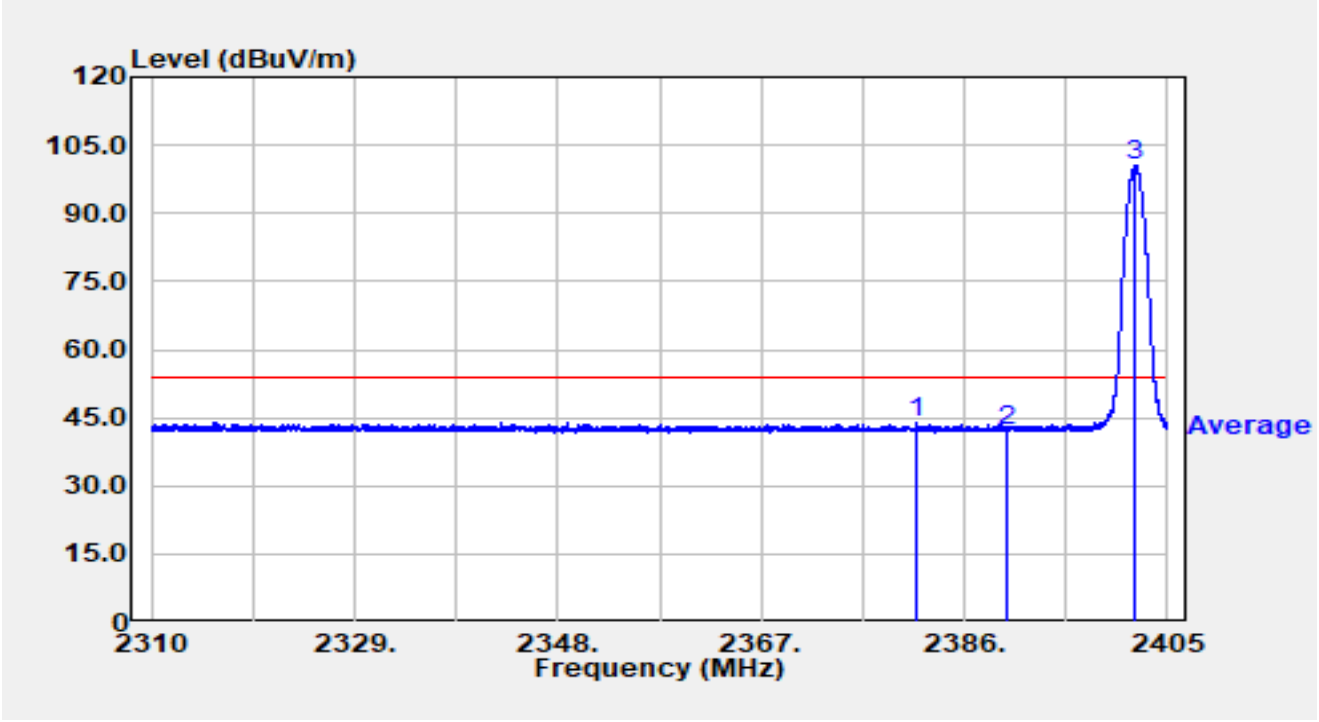
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 1M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2381.478	11.74	32.07	43.80	-10.20	54.00	Average
2		2390.000	10.29	32.04	42.33	-11.67	54.00	Average
3		2401.998	68.39	32.00	100.39	N/A	N/A	Average

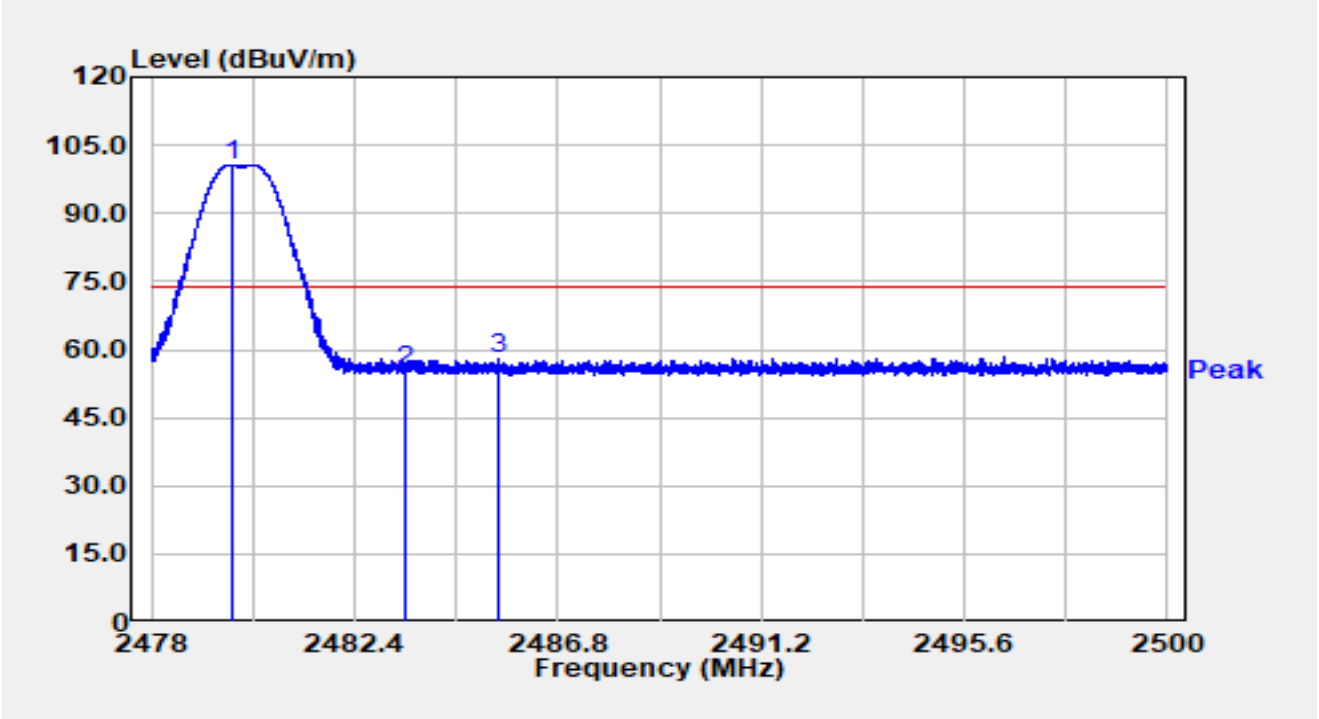
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 1M at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2479.740	68.80	31.94	100.74	N/A	N/A	Peak
2		2483.500	23.44	31.95	55.39	-18.61	74.00	Peak
3	*	2485.500	26.06	31.95	58.01	-15.99	74.00	Peak

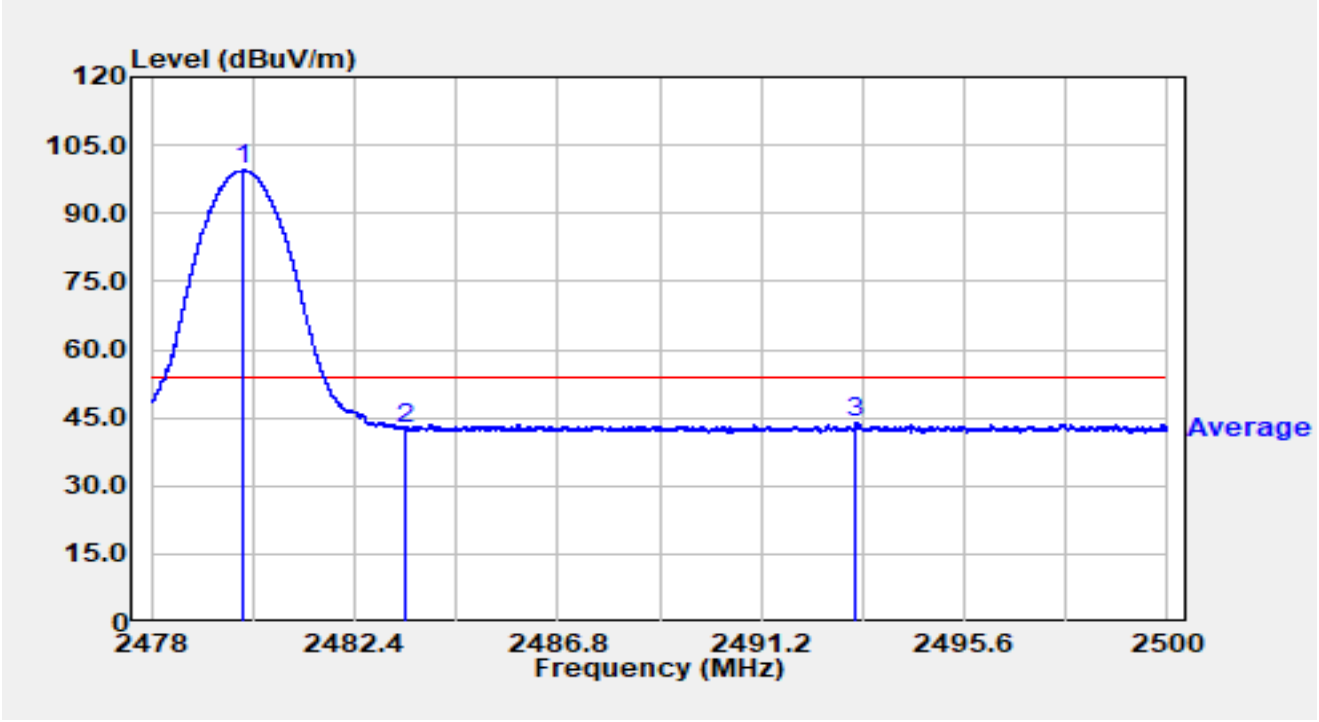
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 1M at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2479.976	67.47	31.94	99.41	N/A	N/A	Average
2		2483.500	10.60	31.95	42.55	-11.45	54.00	Average
3	*	2493.261	11.95	31.96	43.92	-10.08	54.00	Average

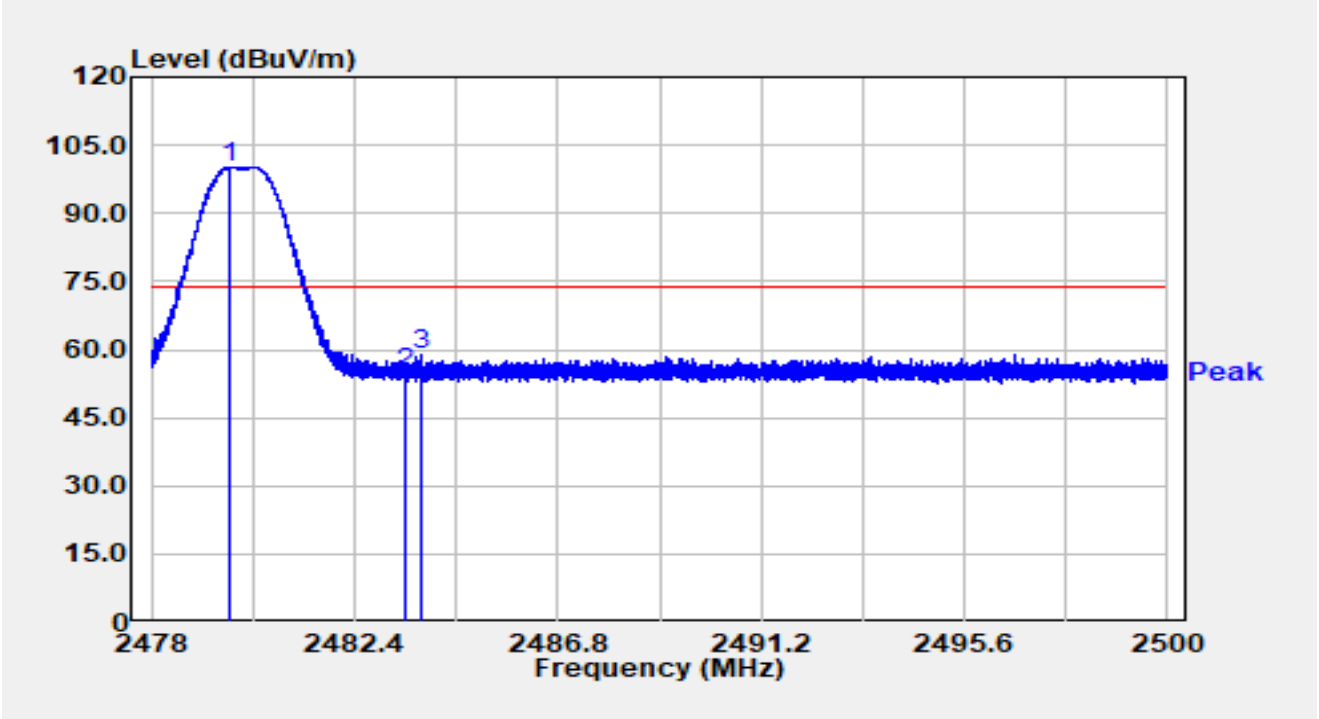
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 1M at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2479.703	68.32	31.94	100.26	N/A	N/A	Peak
2		2483.500	22.76	31.95	54.71	-19.29	74.00	Peak
3	*	2483.817	26.71	31.95	58.66	-15.34	74.00	Peak

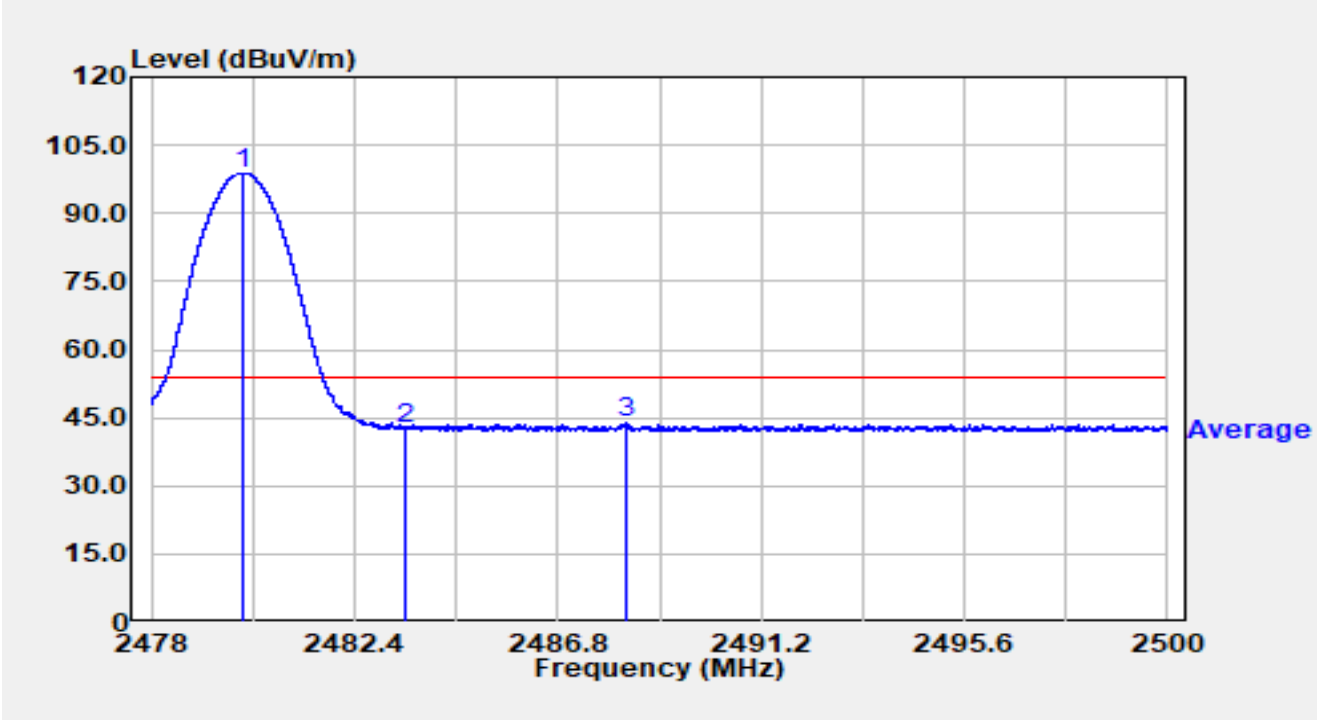
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 1M at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2479.980	66.93	31.94	98.87	N/A	N/A	Average
2		2483.500	10.57	31.95	42.52	-11.48	54.00	Average
3	*	2488.300	11.93	31.96	43.89	-10.11	54.00	Average

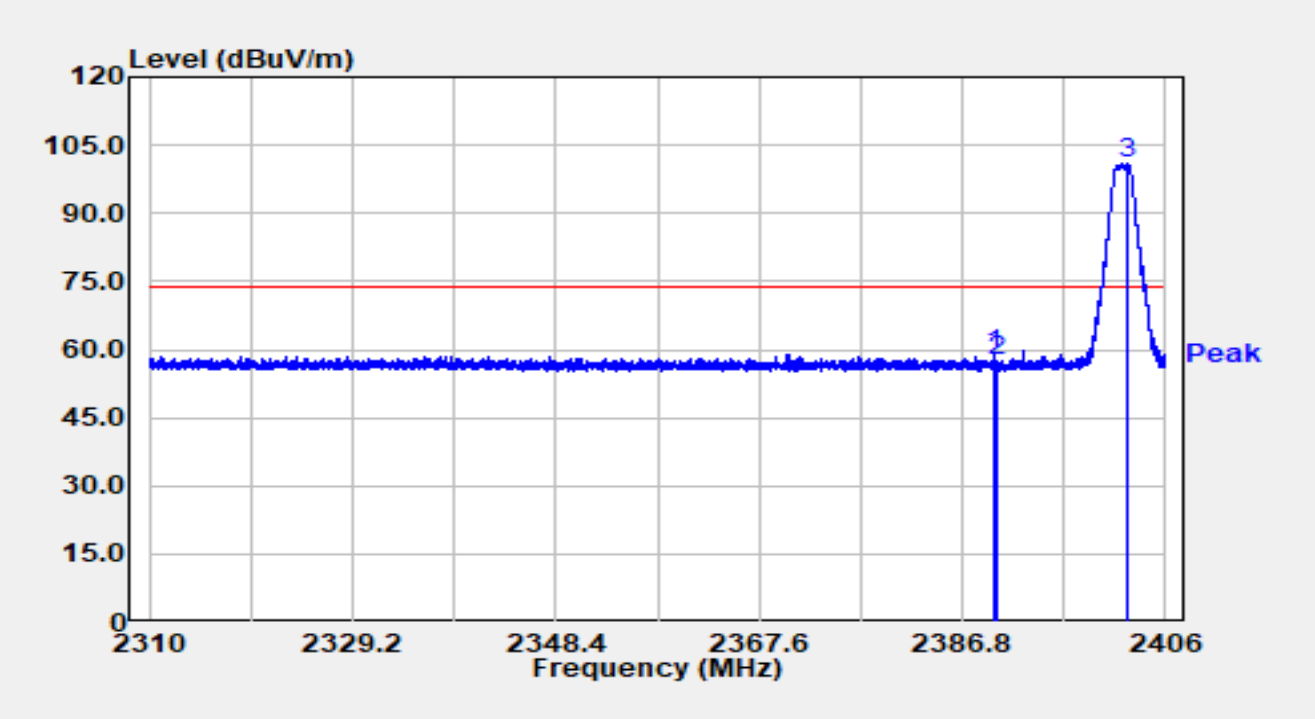
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 2M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2389.910	26.84	32.04	58.88	-15.12	74.00	Peak
2		2390.000	25.59	32.04	57.63	-16.37	74.00	Peak
3		2402.448	68.83	32.00	100.84	N/A	N/A	Peak

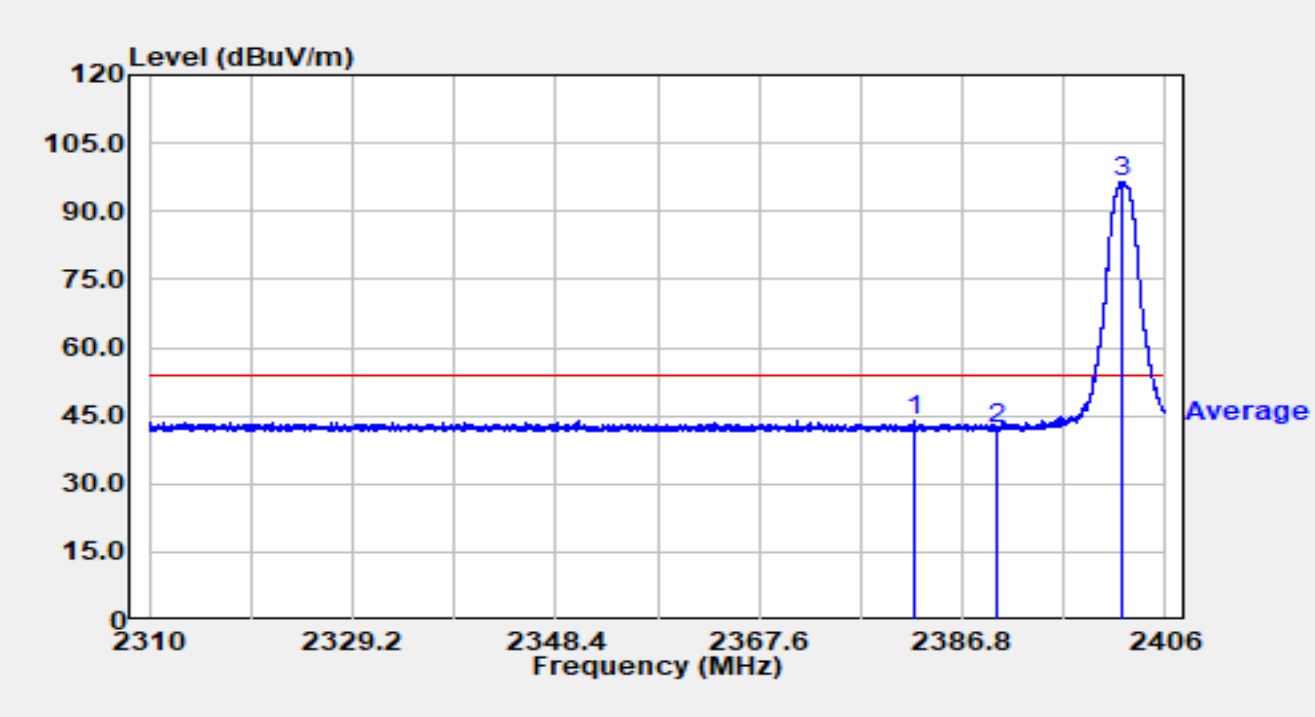
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 2M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2382.182	12.05	32.07	44.12	-9.88	54.00	Average
2		2390.000	10.08	32.04	42.12	-11.88	54.00	Average
3		2401.814	64.41	32.00	96.42	N/A	N/A	Average

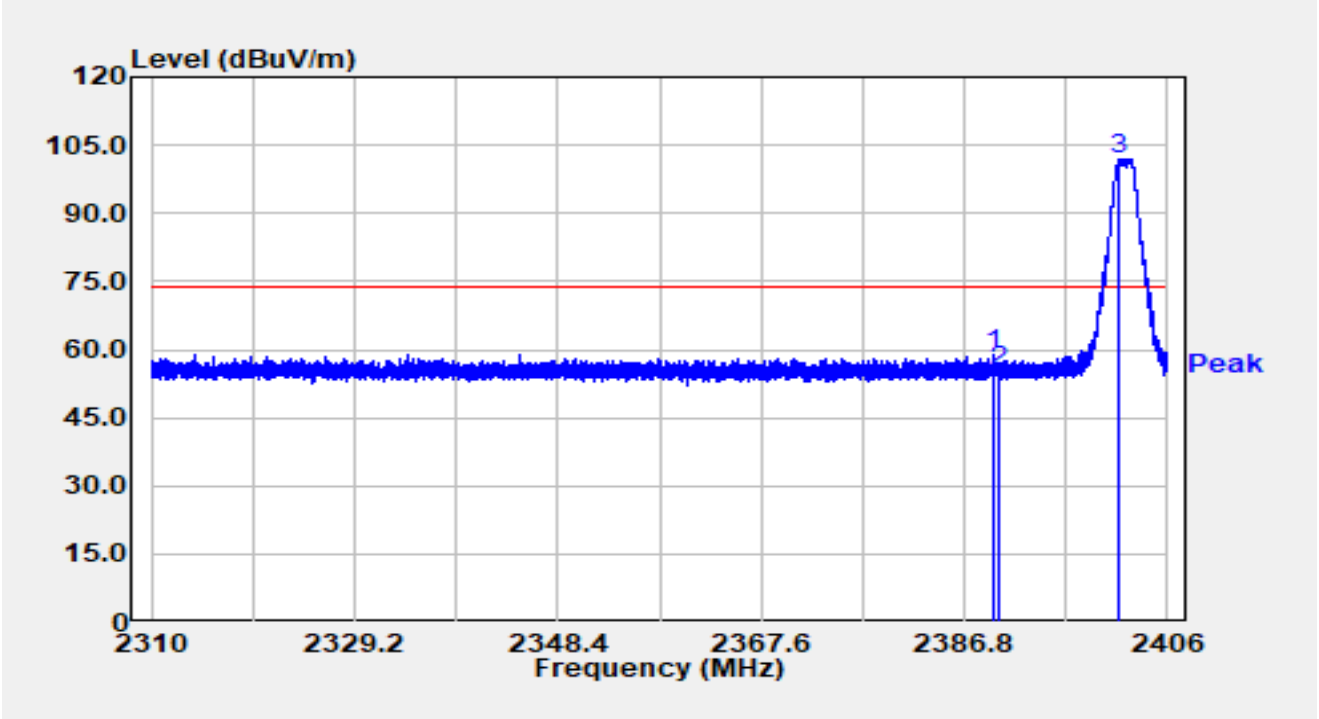
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 2M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2389.546	26.79	32.04	58.83	-15.17	74.00	Peak
2		2390.000	22.99	32.04	55.03	-18.97	74.00	Peak
3		2401.459	70.00	32.01	102.01	N/A	N/A	Peak

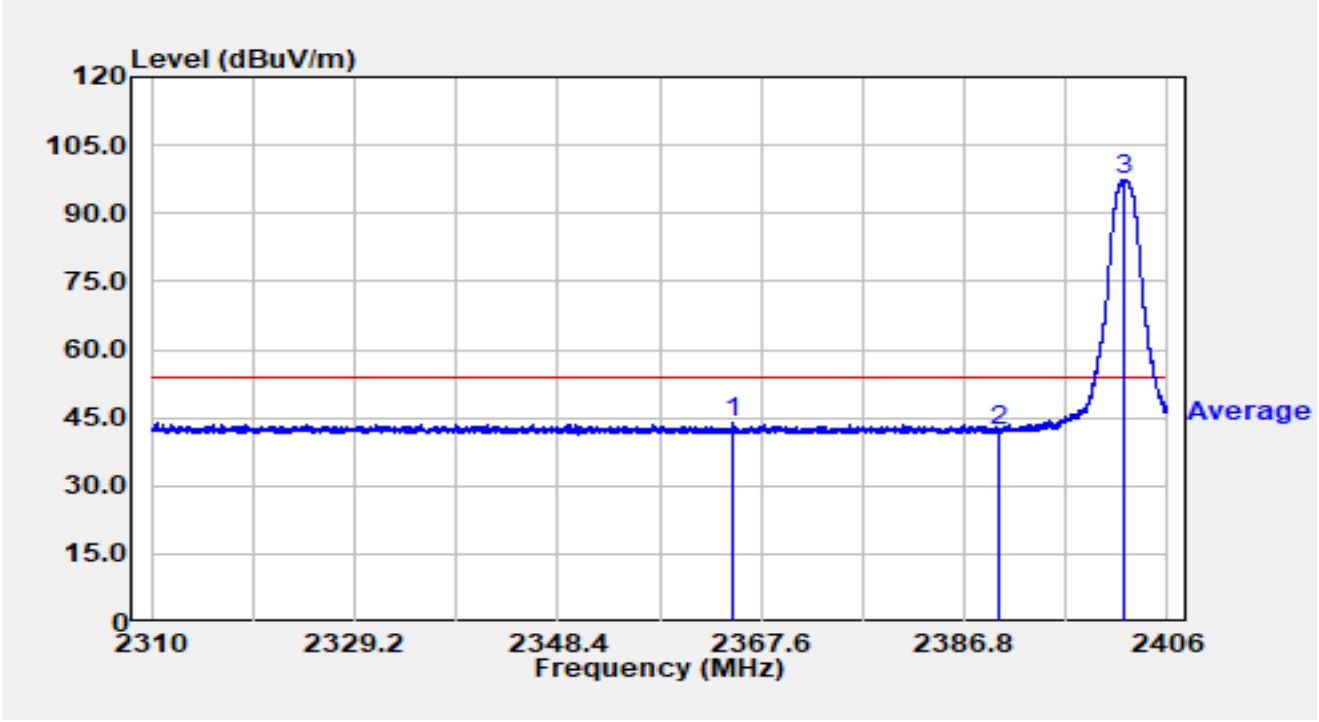
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 2M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	2364.941	11.80	32.06	43.86	-10.14	54.00	Average
2		2390.000	10.06	32.04	42.10	-11.90	54.00	Average
3		2401.939	65.58	32.00	97.58	N/A	N/A	Average

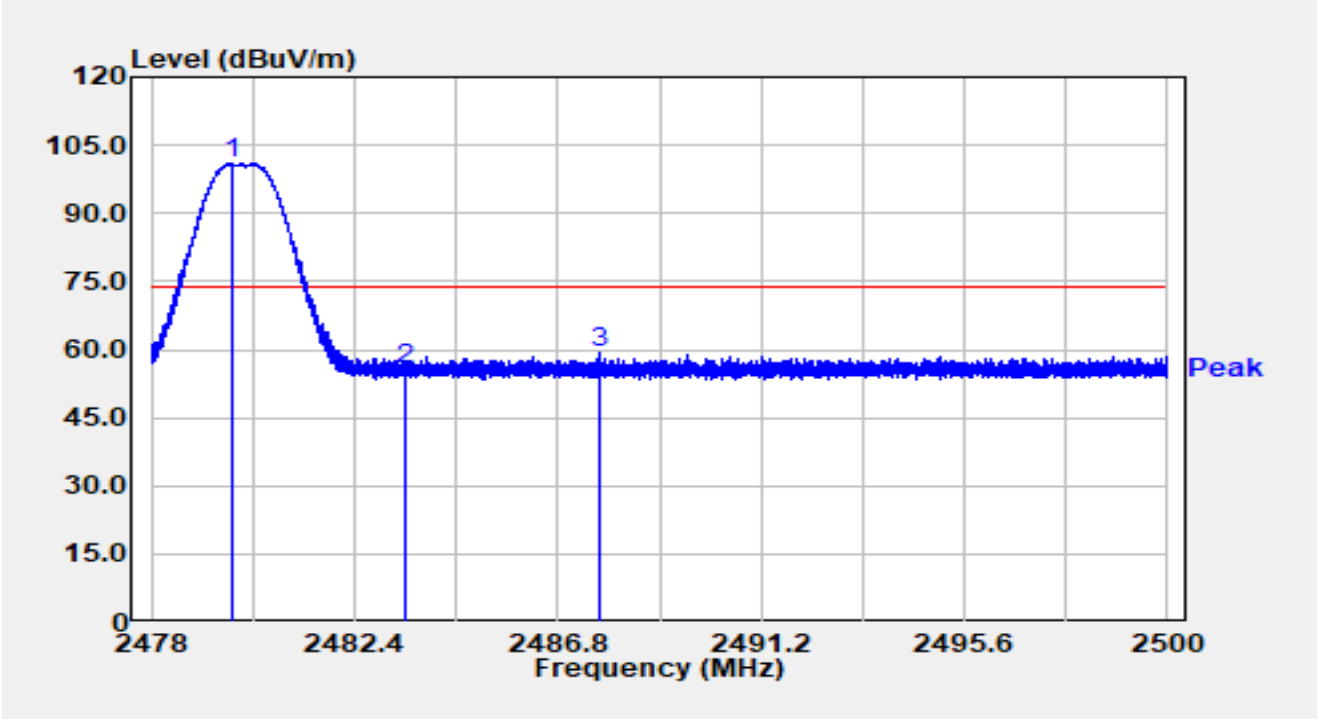
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 2M at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2479.725	68.92	31.94	100.86	N/A	N/A	
2		2483.500	23.91	31.95	55.86	-18.14	74.00	
3	*	2487.713	27.16	31.96	59.12	-14.88	74.00	

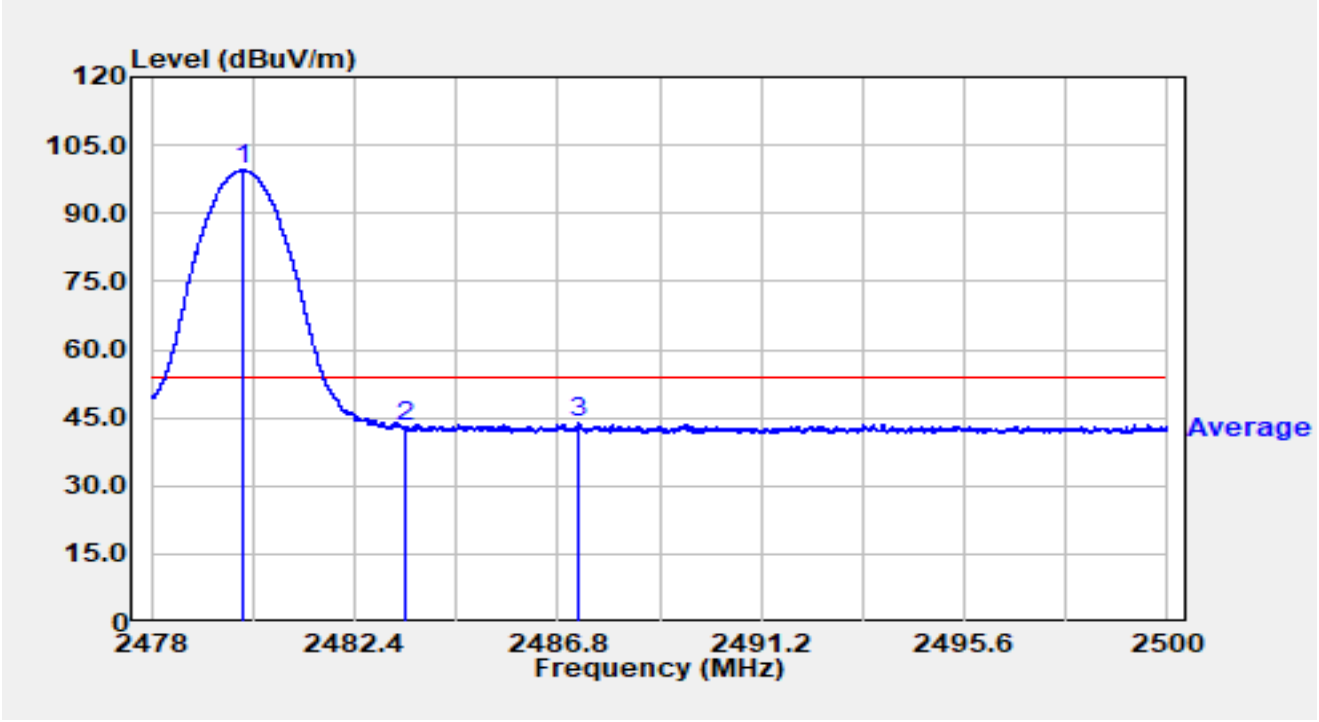
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 2M at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2479.991	67.58	31.94	99.52	N/A	N/A	Average
2		2483.500	11.04	31.95	42.99	-11.01	54.00	Average
3	*	2487.262	11.84	31.96	43.80	-10.20	54.00	Average

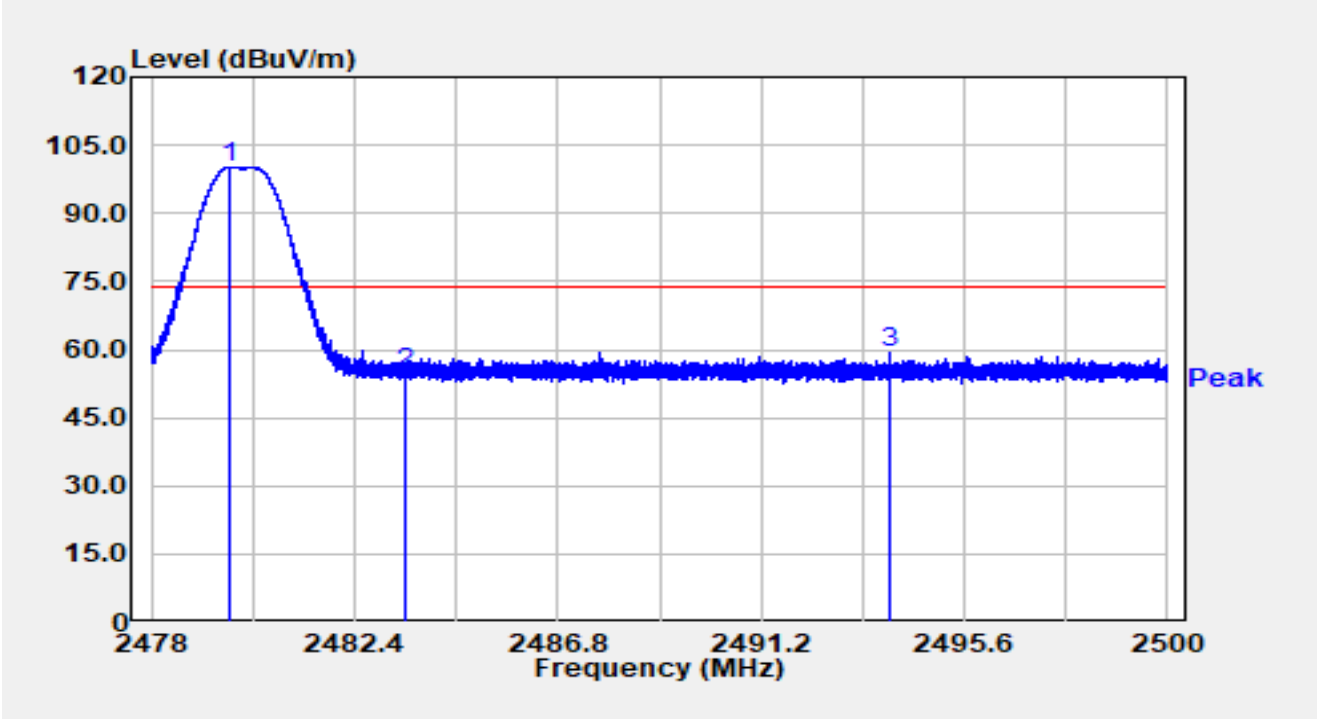
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 2M at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2479.703	68.34	31.94	100.28	N/A	N/A	Peak
2		2483.500	22.85	31.95	54.80	-19.20	74.00	Peak
3	*	2494.000	27.27	31.96	59.23	-14.77	74.00	Peak

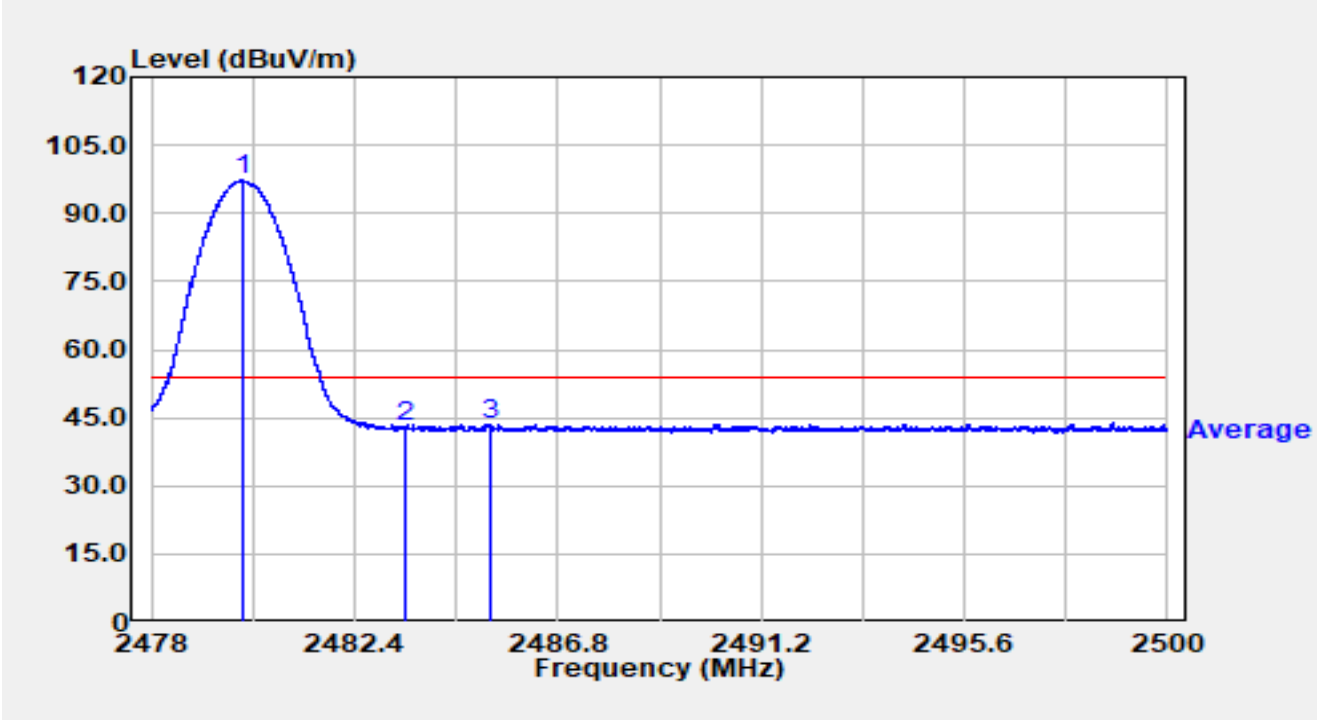
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-03
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Networked Docking Station	Test Voltage	120V/60Hz
Test Mode	Transmit by BLE 2M at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		2479.982	65.29	31.94	97.23	N/A	N/A	Average
2		2483.500	10.91	31.95	42.86	-11.14	54.00	Average
3	*	2485.317	11.69	31.95	43.65	-10.35	54.00	Average

Notes:

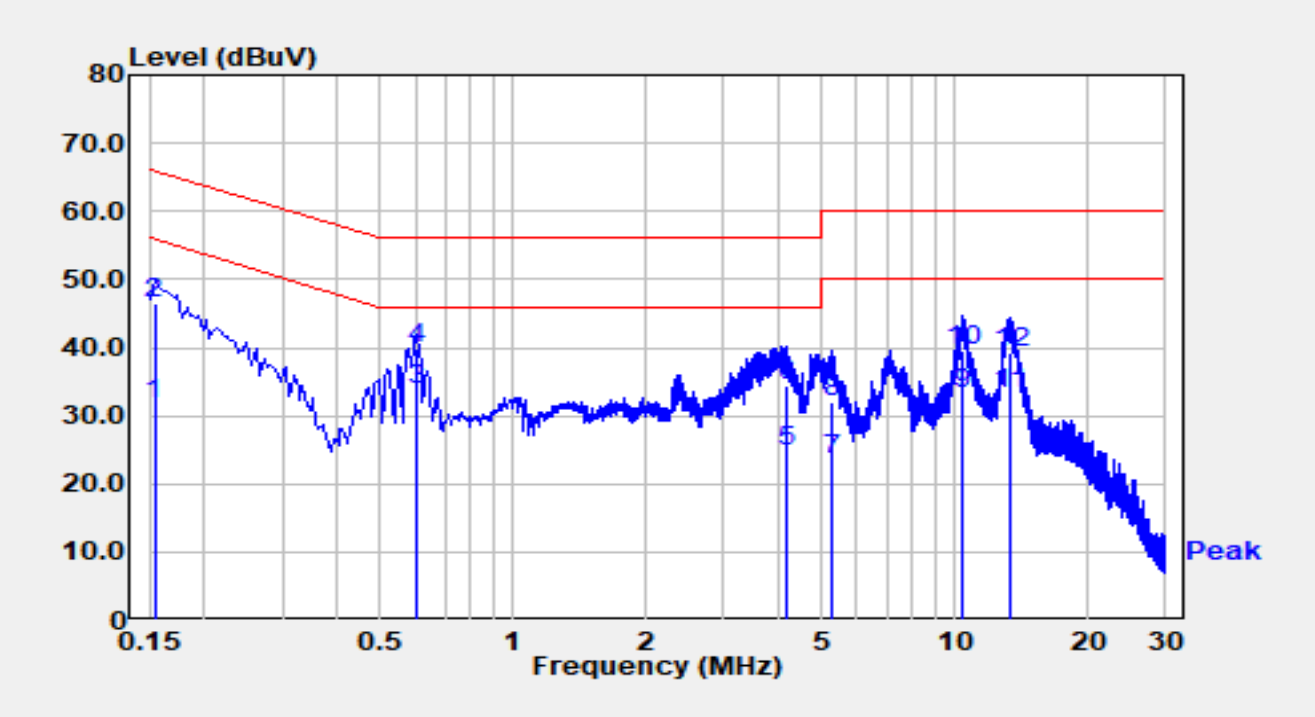
1. " *", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

3. Measurement(dBµV/m) = Reading(dBµV) + C.F (dB/m).

A.8 AC Conducted Emissions Test Result

Site	WZ-SR2	Test Date	2024-08-25
Test Engineer	Linda Wei	Temp./Humidity	23.8°C/57.1%
Factor	ENV216_101683_L1_Filter Off_E	Polarity	Line1
EUT	Networked Docking Station	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE 1M at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB)	Measurement (dBµV)	Margin (dB)	Limit (dBµV)	Detector
1		0.154	21.80	9.78	31.58	-24.20	55.78	Average
2		0.154	36.60	9.78	46.38	-19.40	65.78	QP
3	*	0.602	23.90	9.98	33.88	-12.12	46.00	Average
4		0.602	29.80	9.98	39.78	-16.22	56.00	QP
5		4.150	14.30	10.49	24.79	-21.21	46.00	Average
6		4.150	23.80	10.49	34.29	-21.71	56.00	QP
7		5.270	13.00	10.58	23.58	-26.42	50.00	Average
8		5.270	21.40	10.58	31.98	-28.02	60.00	QP
9		10.410	22.10	10.99	33.09	-16.91	50.00	Average
10		10.410	28.50	10.99	39.49	-20.51	60.00	QP
11		13.320	22.10	11.16	33.26	-16.74	50.00	Average
12		13.320	28.00	11.16	39.16	-20.84	60.00	QP

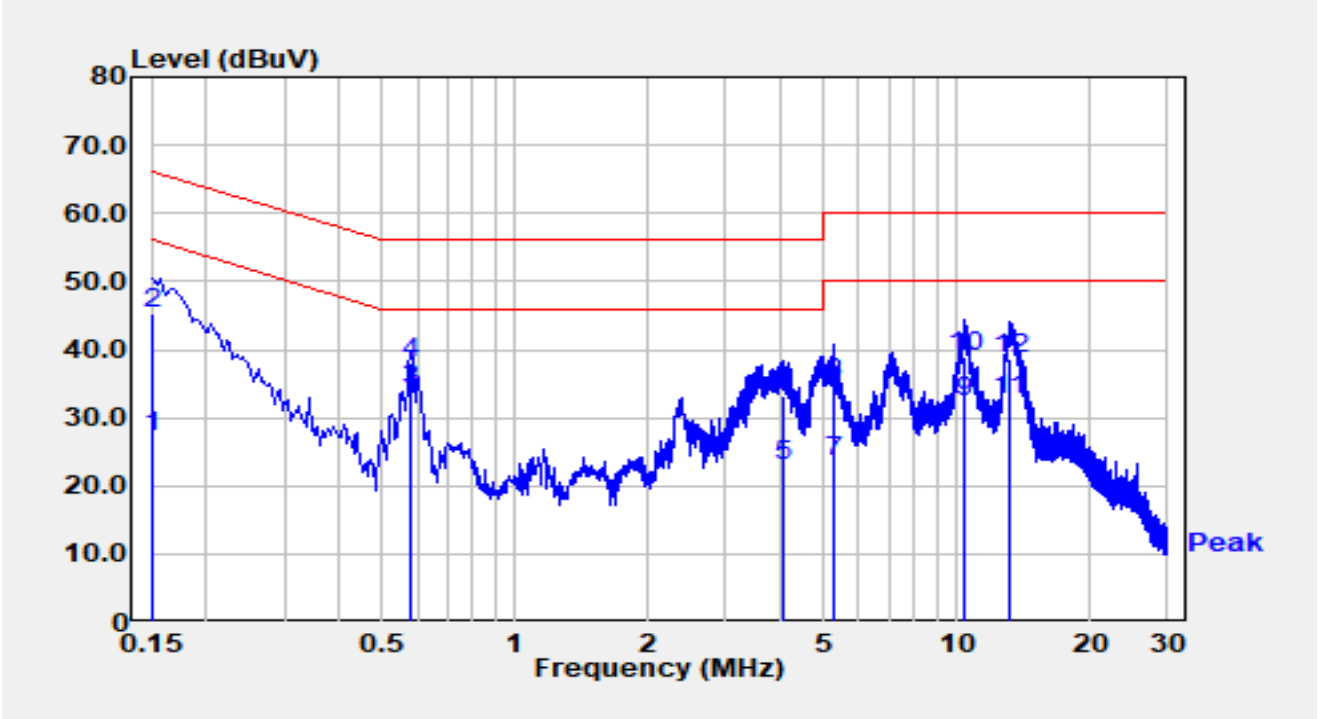
Notes:

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

2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).

3. Measurement (dBμV) = Reading (dBμV) + C.F (dB).

Site	WZ-SR2	Test Date	2024-08-25
Test Engineer	Linda Wei	Temp./Humidity	23.8°C/57.1%
Factor	ENV216_101683_N_Filter Off_E	Polarity	Neutral
EUT	Networked Docking Station	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE 1M at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB)	Measurement (dBµV)	Margin (dB)	Limit (dBµV)	Detector
1		0.150	17.50	9.75	27.25	-28.75	56.00	Average
2		0.150	35.50	9.75	45.25	-20.75	66.00	QP
3	*	0.582	24.30	9.95	34.25	-11.75	46.00	Average
4		0.582	28.20	9.95	38.15	-17.85	56.00	QP
5		4.020	12.60	10.48	23.08	-22.92	46.00	Average
6		4.020	22.60	10.48	33.08	-22.92	56.00	QP
7		5.290	12.80	10.60	23.40	-26.60	50.00	Average
8		5.290	24.40	10.60	35.00	-25.00	60.00	QP
9		10.430	21.30	11.03	32.33	-17.67	50.00	Average
10		10.430	27.81	11.03	38.84	-21.16	60.00	QP
11		13.140	21.40	11.19	32.59	-17.41	50.00	Average
12		13.140	27.40	11.19	38.59	-21.41	60.00	QP

Notes:

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

2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).

3. Measurement (dBμV) = Reading (dBμV) + C.F (dB).

Appendix B – Test Setup Photograph

Refer to “2407RSU002-CT” file.

Appendix C – EUT Photograph

Refer to “2407RSU002-CE” file.

The End