



RF MEASUREMENT REPORT

FCC ID: U4GDL36LT
Applicant: Datalogic S.r.l.
Product: Barcode Reader
Model No.: DL36LT
Brand Name: DATALOGIC
FCC Classification: FCC Part 15 Spread Spectrum Transmitter (DSS)
FCC Rule Part(s): Part15 Subpart C (Section 15.247)
Result: Complies
Received Date: 2025-01-13
Test Date: 2025-04-03 ~ 2025-04-11

Reviewed By:

Jame Yuan

Jame Yuan

Approved By:

Robin Wu

Robin Wu



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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
R25S1004041-U201	V01	Initial Report	2025-05-08	Valid

Note: This product has got FCC approval (FCC ID: U4GDL36LT, Original Report No.: 2209RSU001-U1), now it has been replaced with 2.4/5G Wi-Fi FEM (pin-for-pin compatible) and reduced Wi-Fi conducted power via software, no other change. Based on the above changes, we did some spot-check tests for partial items.

CONTENTS

Description	Page
1. General Information	5
1.1. Applicant	5
1.2. Manufacturer	5
1.3. Testing Facility	5
1.4. Product Information	6
1.5. Radio Specification under Test	7
1.6. Working Frequencies	8
1.7. Pseudorandom Frequency Hopping Sequence	9
2. Test Configuration	10
2.1. Test Mode	10
2.2. Test System Connection Diagram	10
2.3. Test Software	10
2.4. Applied Standards	11
2.5. Test Environment Condition	11
3. Antenna Requirement	12
4. Measuring Instrument	13
5. Decision Rules and Measurement Uncertainty	14
5.1. Decision Rules	14
5.2. Measurement Uncertainty	14
6. Test Result	15
6.1. Summary	15
6.2. Output Power Measurement	16
6.2.1. Test Limit	16
6.2.2. Test Procedure	16
6.2.3. Test Setting	16
6.2.4. Test Setup	16
6.2.5. Test Result	16
6.3. Radiated Spurious Emission Measurement	17
6.3.1. Test Limit	17
6.3.2. Test Procedure	17
6.3.3. Test Setting	17
6.3.4. Test Setup	19
6.3.5. Test Result	20
6.4. Radiated Restricted Band Edge Measurement	21
6.4.1. Test Limit	21
6.4.2. Test Procedure	22

6.4.3.	Test Setting	22
6.4.4.	Test Setup	23
6.4.5.	Test Result	23
Appendix A - Test Result.....		24
A.1	Output Power Test Result	24
A.2	Radiated Spurious Emission Test Result.....	28
A.3	Radiated Restricted Band Edge Test Result.....	31
Appendix B - Test Setup Photograph		55
Appendix C - EUT Photograph		56

1. General Information

1.1. Applicant

Datalogic S.r.l.

Via San Vitalino no.13, Calderara di Reno -40012(BO)-Italy

1.2. Manufacturer

Datalogic S.r.l.

Via San Vitalino no.13, Calderara di Reno -40012(BO)-Italy

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	Barcode Reader
Model No.	DL36LT
EUT Identification No.	20250305Sample#01 (Conducted) 20250113Sample#02 (Radiated)
NFC Specification	13.56MHz
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Specification	v5.2 dual mode
WPT Specification	119-140kHz, WPT client type
GNSS Specification	GPS/GNSS/Beidou/Galileo/SBAS
3GPP Specification	GSM 850/1900 WCDMA Band 2/4/5 LTE Band 2/4/5/7/12/13/17/25/26
Operating Temp.	-20 ~ 50°C
Power Type	3.60 ~ 4.35Vdc, typical 3.8Vdc
Accessories	
AC Adapter	Model: S008ACM0500200 Input: 100-240V ~ 50/60Hz, 0.3A Output: 5V, 2A, 10W
Rechargeable Li-ion Battery 1#	Model No.: BTDL36 Rated Voltage: 3.8V Rated Capacity: 3980mAh/15.1Wh Limited Charge Voltage: 4.35V
Rechargeable Li-ion Battery 2#	Model No.: BTDL35 Rated Voltage: 3.8V Rated Capacity: 3980mAh/15.1Wh Limited Charge Voltage: 4.35V
Remark: 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

Operating Frequency	2402~2480MHz
Channel Number	79
Type of modulation	GFSK, Pi/4 DQPSK, 8DPSK
Data Rate	1Mbps, 2Mbps, 3Mbps
Antenna Type	PIFA
Antenna Gain	0.46 dBi

Note:

- 15.247(g): In accordance with the Bluetooth Industry Standard, the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information) system.
- 15.247(h): In accordance with the Bluetooth Industry Standard, the system does not coordinate its channels selection/ hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters.
- 15.247(h): The EUT employs Adaptive Frequency Hopping (AFH) which identifies sources of interference namely devices operating in 802.11 WLAN and excludes them from the list of available channels. The process of re-mapping reduces the number of test channels from 79 channels to a minimum number of 20 channels.

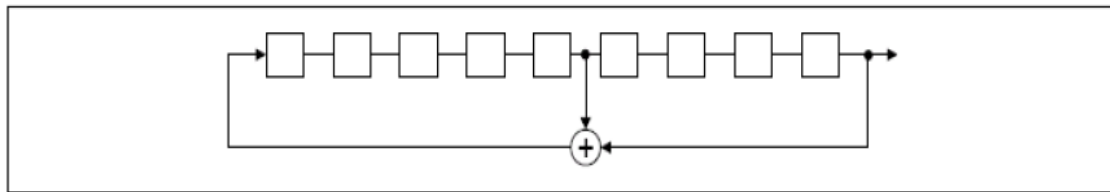
1.6. Working Frequencies

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2403 MHz	02	2404 MHz
03	2405 MHz	04	2406 MHz	05	2407 MHz
06	2408 MHz	07	2409 MHz	08	2410 MHz
09	2411 MHz	10	2412 MHz	11	2413 MHz
12	2414 MHz	13	2415 MHz	14	2416 MHz
15	2417 MHz	16	2418 MHz	17	2419 MHz
18	2420 MHz	19	2421 MHz	20	2422 MHz
21	2423 MHz	22	2424 MHz	23	2425 MHz
24	2426 MHz	25	2427 MHz	26	2428 MHz
27	2429 MHz	28	2430 MHz	29	2431 MHz
30	2432 MHz	31	2433 MHz	32	2434 MHz
33	2435 MHz	34	2436 MHz	35	2437 MHz
36	2438 MHz	37	2439 MHz	38	2440 MHz
39	2441 MHz	40	2442 MHz	41	2443 MHz
42	2444 MHz	43	2445 MHz	44	2446 MHz
45	2447 MHz	46	2448 MHz	47	2449 MHz
48	2450 MHz	49	2451 MHz	50	2452 MHz
51	2453 MHz	52	2454 MHz	53	2455 MHz
54	2456 MHz	55	2457 MHz	56	2458 MHz
57	2459 MHz	58	2460 MHz	59	2461 MHz
60	2462 MHz	61	2463 MHz	62	2464 MHz
63	2465 MHz	64	2466 MHz	65	2467 MHz
66	2468 MHz	67	2469 MHz	68	2470 MHz
69	2471 MHz	70	2472 MHz	71	2473 MHz
72	2474 MHz	73	2475 MHz	74	2476 MHz
75	2477 MHz	76	2478 MHz	77	2479 MHz
78	2480 MHz	--	--	--	--

1.7. Pseudorandom Frequency Hopping Sequence

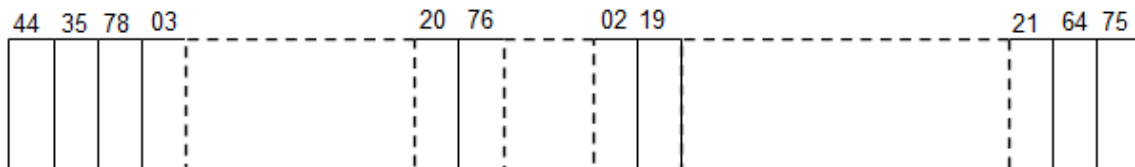
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their Corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

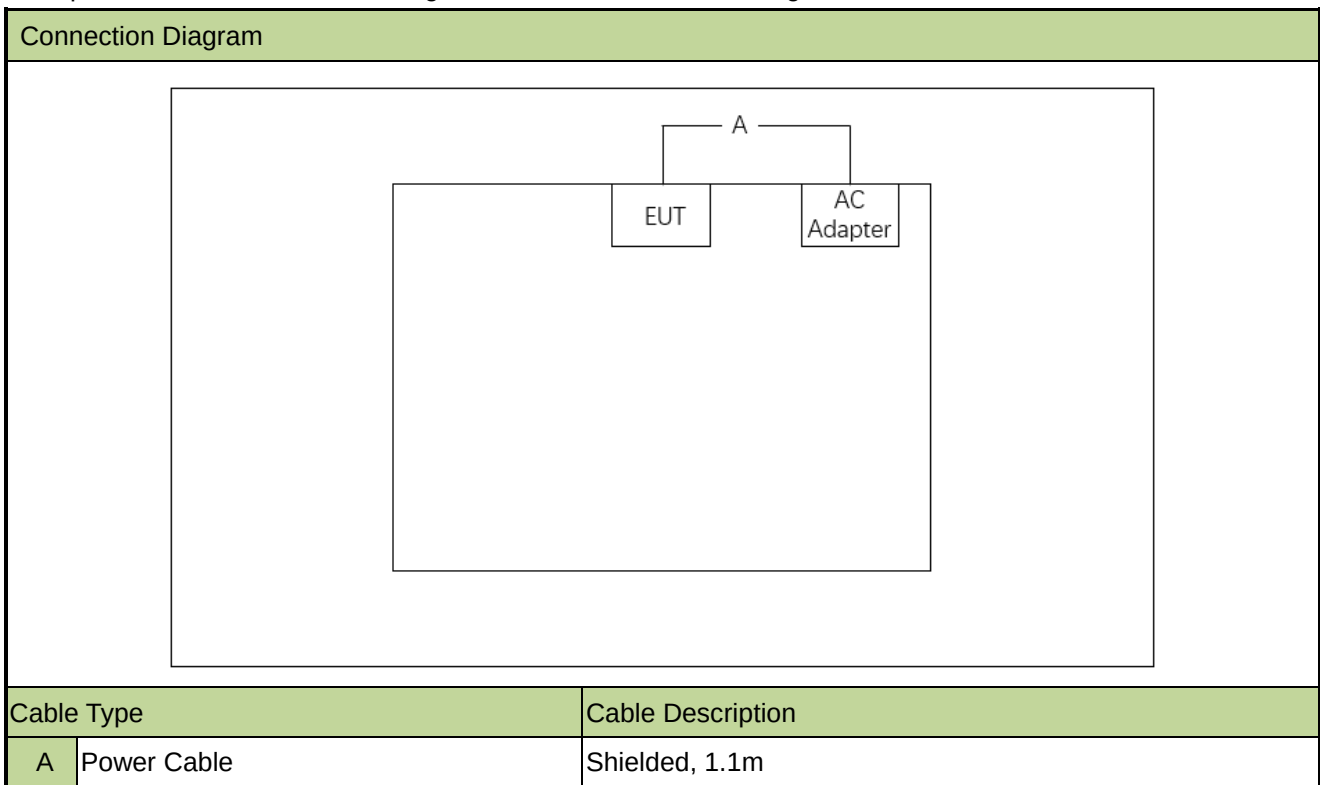
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by DH5
Mode 2: Transmit by 2DH5
Mode 3: Transmit by 3DH5

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

Type the code `***#05740574***` to enter engineer mode to implement continuous transmit.

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 Requirement

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
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2026-01-04	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2025-05-08 2026-04-26	WZ-AC2
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2026-03-22	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2025-09-23	WZ-AC2
Preamplifier	EMCI	EMC051845SE	MRTSUE06987	1 year	2025-09-06	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2025-11-03	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-01-09	WZ-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2025-10-13	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2026-04-17	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Signal Analyzer	Keysight	N9020B	MRTSUE07037	1 year	2025-09-03	WJ-SR3
Shielding Room	TDK	WJ-SR3	MRTSUE07125	N/A	N/A	WJ-SR3
USB Power Sensor	Keysight	U2021XA	MRTSUE07143	1 year	2026-03-15	WJ-SR3
Thermohygrometer	testo	608-H1	MRTSUE11331	1 year	2025-06-24	WJ-SR3

Software	Version	Function
e3	230711	RE & CE
Agilent Power Panel	V 3.9	Power
Controller_MF 7802	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	
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: 2.35dB
Coplanar:	9kHz~30MHz: 2.37dB
Horizontal:	30MHz~200MHz: 3.47dB
	200MHz~1GHz: 4.17dB
	1GHz~40GHz: 4.97dB
Vertical:	30MHz~200MHz: 4.07dB
	200MHz~1GHz: 5.28dB
	1GHz~40GHz: 4.84dB
Spurious Emissions, Conducted	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$):	
2.5dB	
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$):	
1.5dB	
Occupied Bandwidth	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$):	
3.2%	

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(b)(1)	Peak Transmitter 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 captured using a correction table to account for cable and attenuator losses in the system connecting the EUT to the analyzer across relevant frequencies.
2. 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.

6.2. Output Power Measurement

6.2.1. Test Limit

For frequency hopping systems operating in the 2400-2483.5MHz band employing at least 75 non-overlapping hopping channels: 1watt (30dBm). For all other frequency hopping systems in the 2400 - 2483.5MHz band: 0.125 watt (20.97dBm).

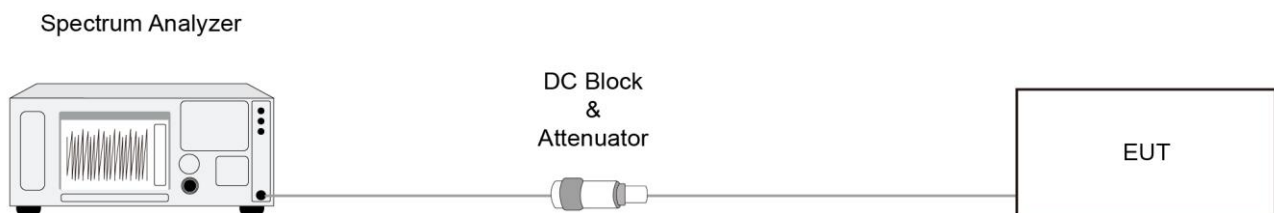
6.2.2. Test Procedure

ANSI C63.10-2013 - Section 7.8.5

6.2.3. Test Setting

1. Set RBW $\geq$ the 20 dB bandwidth of the emission being measured.
2. VBW $\geq$ RBW
3. Span = approximately five times the 20dB bandwidth, centered on a hopping channel
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize, Use the marker-to-peak function to set the marker to the peak of the emission.
The indicated level is the peak output power (don't forget added the external attenuation and cable loss)

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 [$\mu\text{V/m}$]	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 Section 6.3 (General Requirements)

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

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

ANSI C63.10 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
> 1000 MHz	1 MHz

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

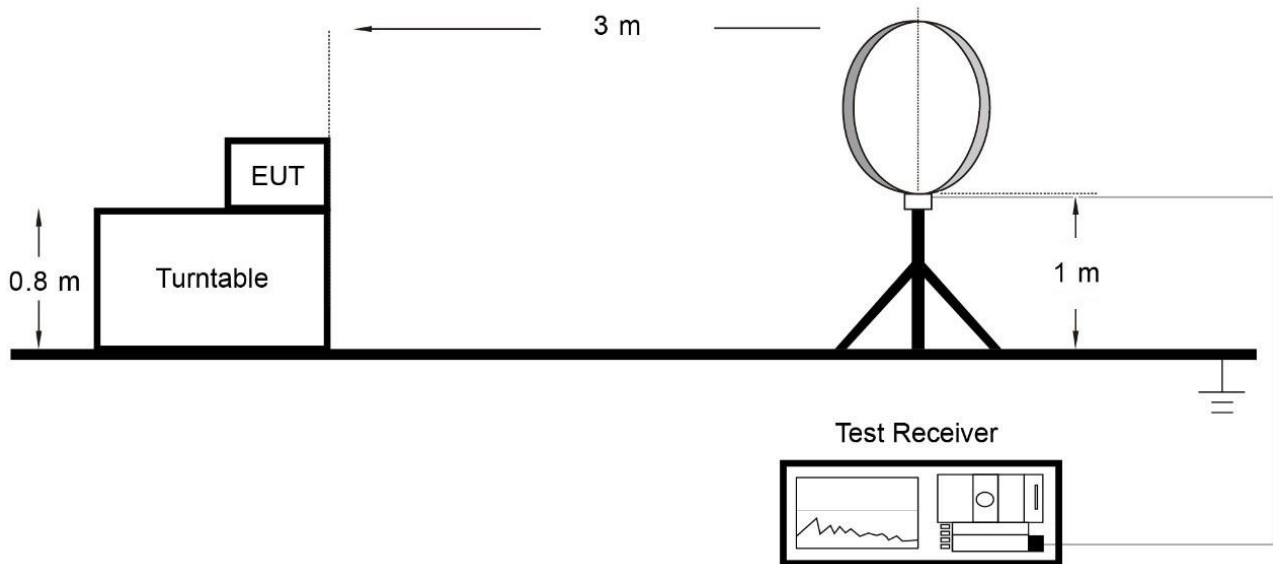
Average Measurements above 1GHz (Method VB)

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 = 10Hz

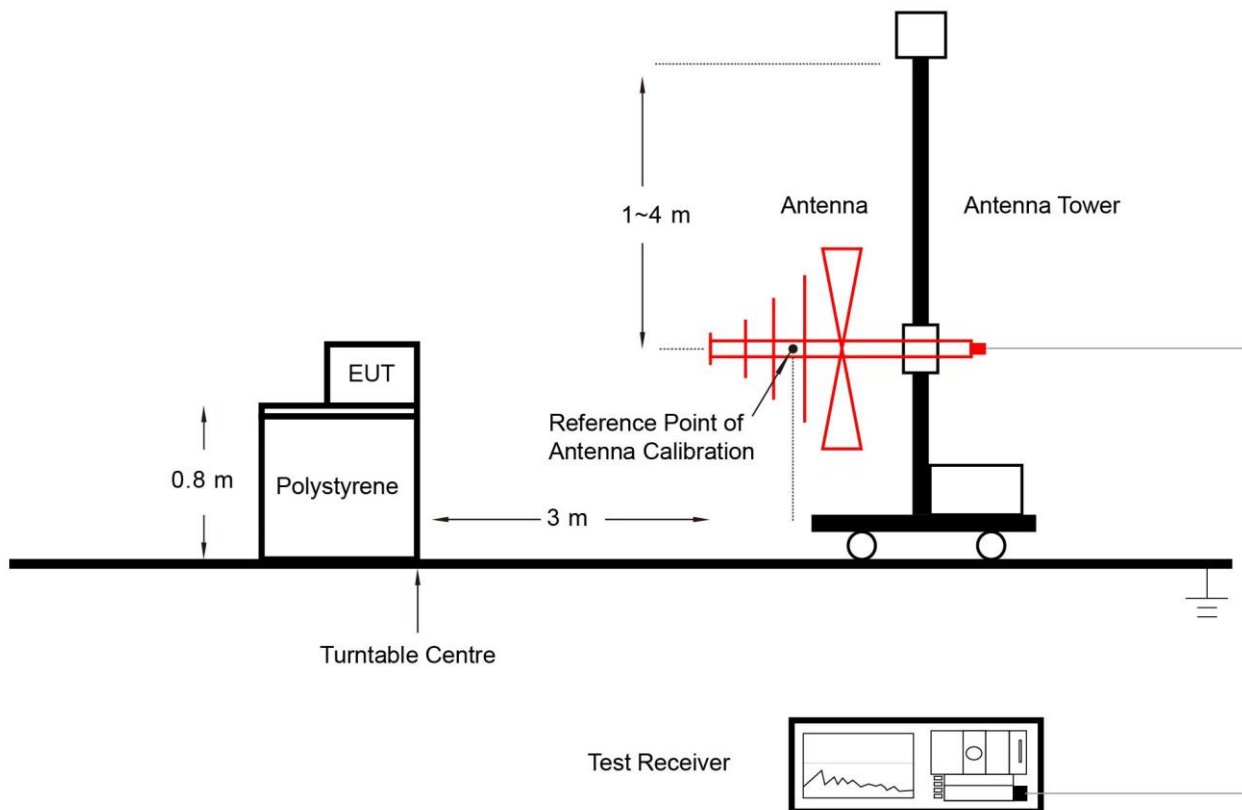
If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require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

6.3.4. Test Setup

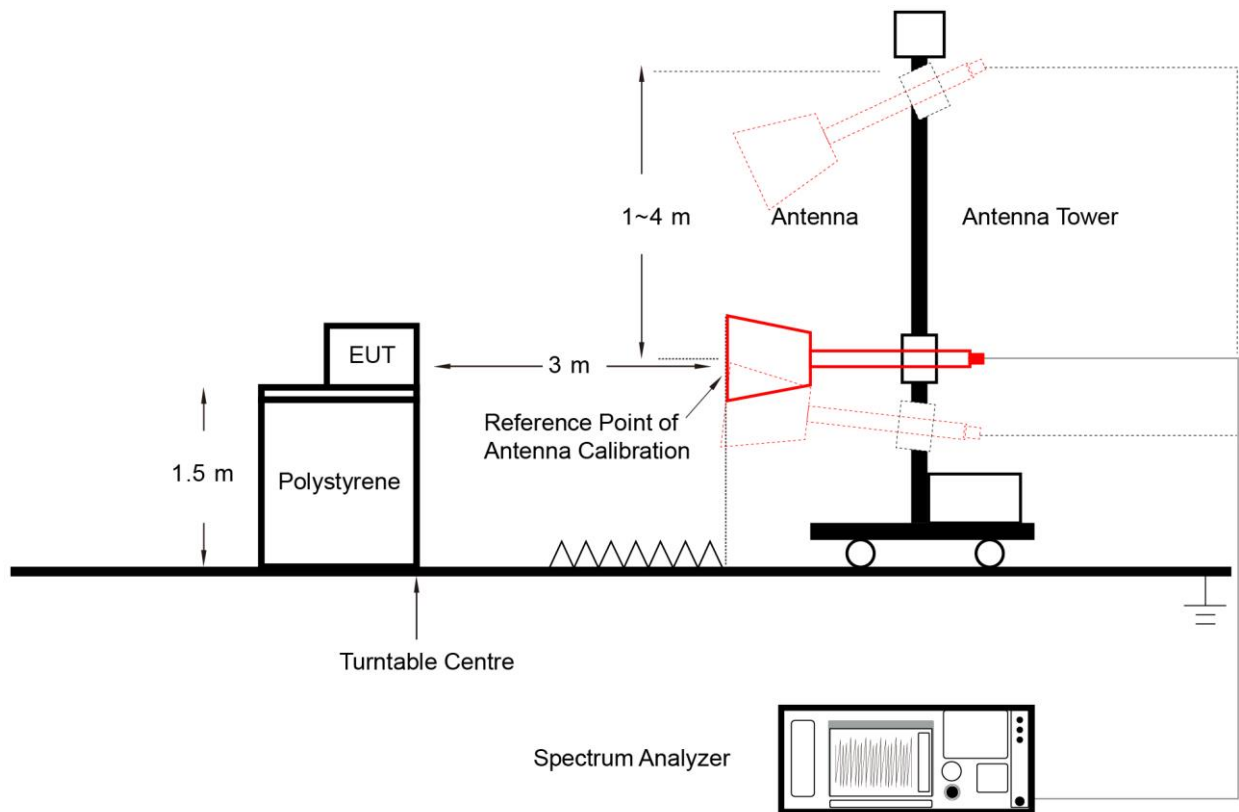
Below 30MHz Test Setup:



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 [μ V/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 Section 6.3 (General Requirements)

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

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

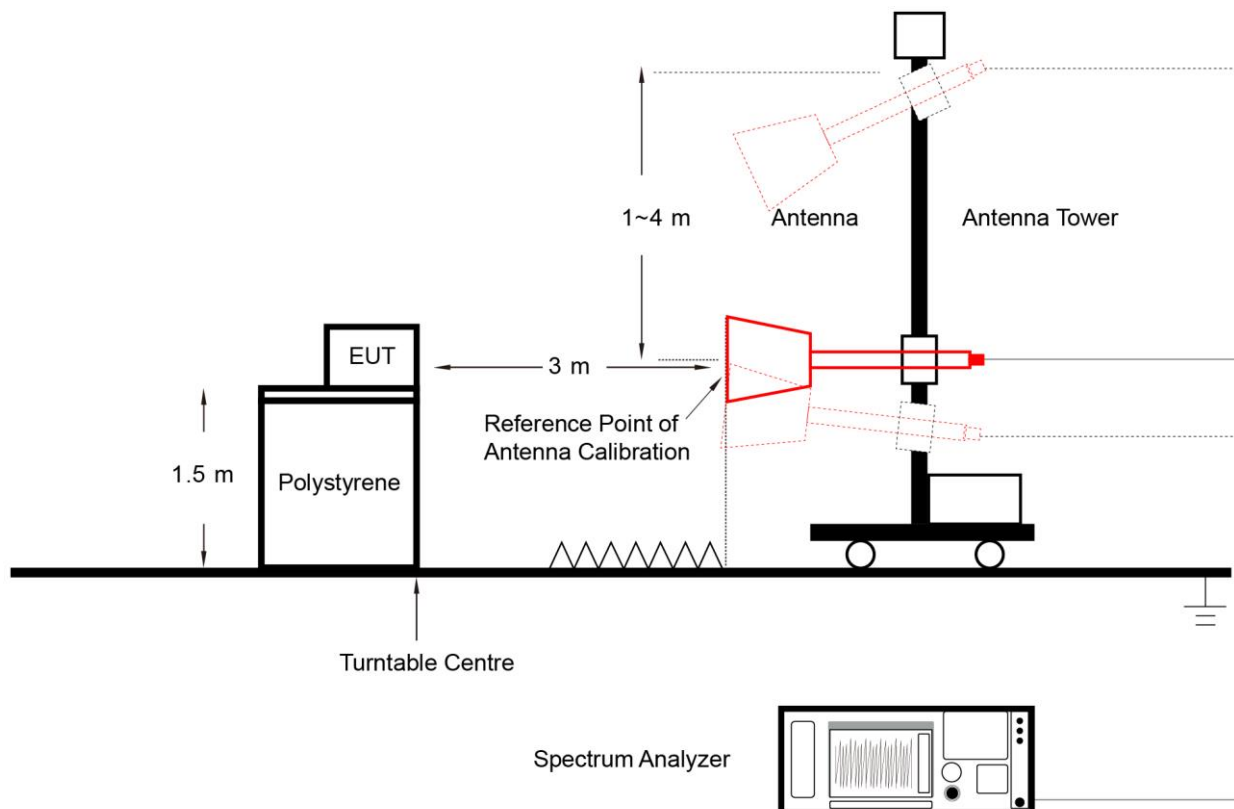
Average Measurements above 1GHz (Method VB)

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 = 10Hz

If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. 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

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.3.

Appendix A - Test Result

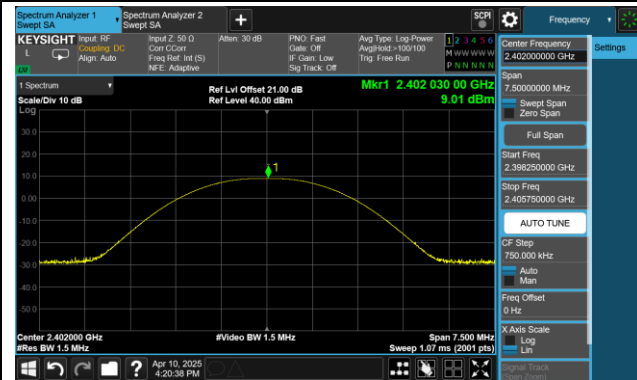
A.1 Output Power Test Result

Test Site	WJ-SR3	Test Engineer	Jake Lan
Test Date	2025-04-10		

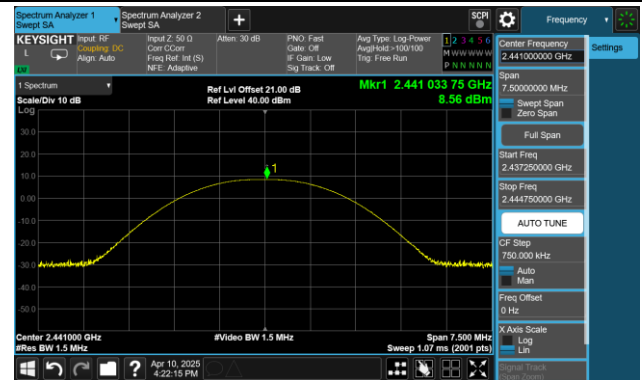
Test Mode	Channel No.	Frequency (MHz)	Output Power (dBm)	Power Limit (dBm)
DH5	00	2402	9.01	≤ 20.97
DH5	39	2441	8.56	≤ 20.97
DH5	78	2480	8.04	≤ 20.97
2DH5	00	2402	8.24	≤ 20.97
2DH5	39	2441	7.67	≤ 20.97
2DH5	78	2480	7.25	≤ 20.97
3DH5	00	2402	7.78	≤ 20.97
3DH5	39	2441	7.65	≤ 20.97
3DH5	78	2480	7.21	≤ 20.97

DH5 Output Power

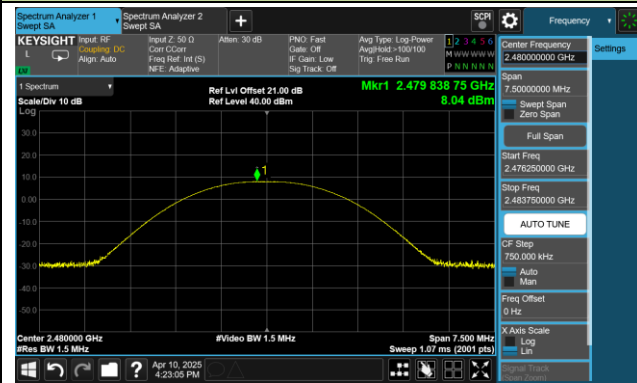
Channel 00 (2402MHz)



Channel 39 (2441MHz)

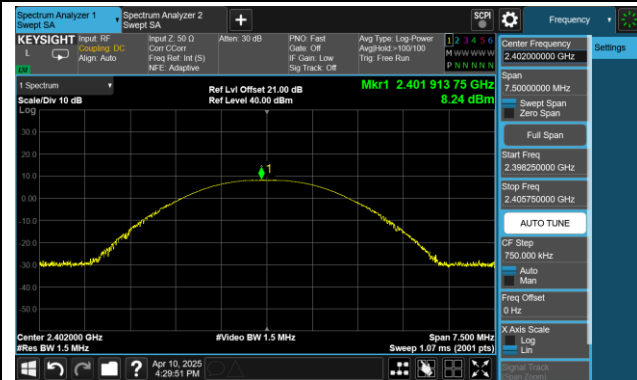


Channel 78 (2480MHz)

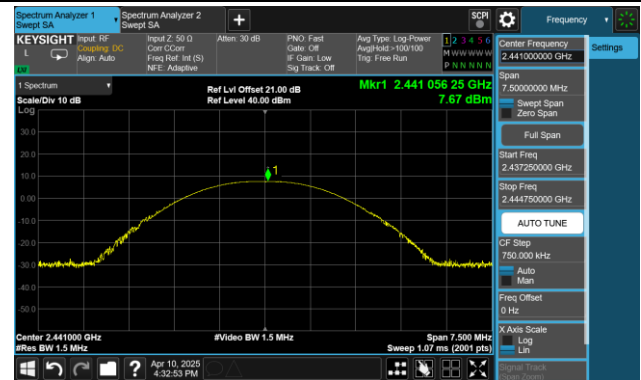


2DH5 Output Power

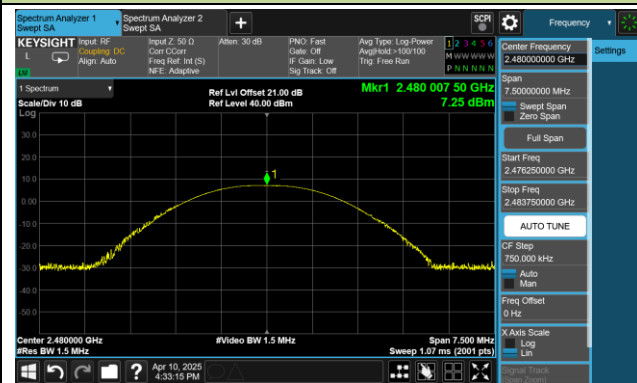
Channel 00 (2402MHz)



Channel 39 (2441MHz)

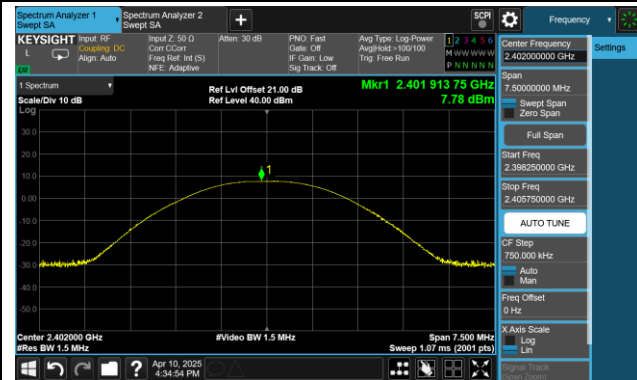


Channel 78 (2480MHz)

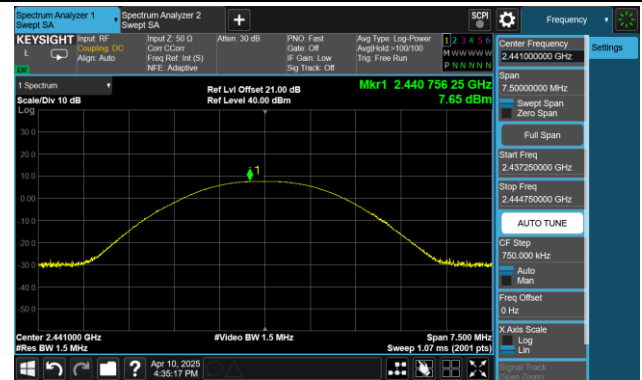


3DH5 Output Power

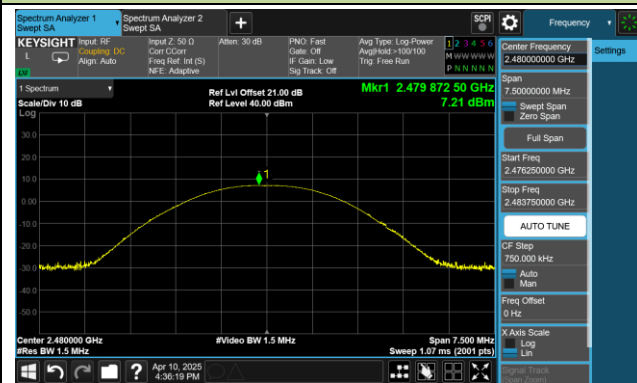
Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)



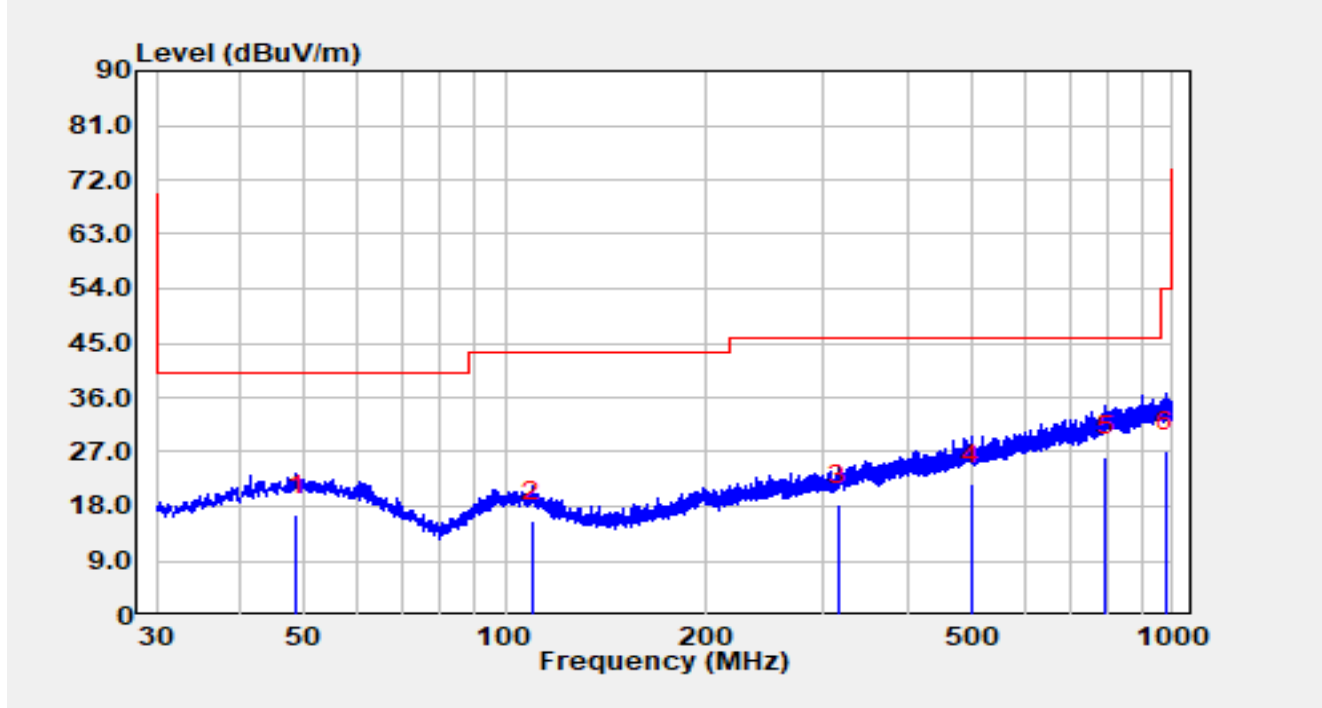
A.2 Radiated Spurious Emission Test Result

Test Site	WZ-AC2	Test Engineer	Dick Shen
Test Date	2025-04-11	Test Mode:	2DH5
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	39.6	2.9	42.5	74.0	-31.5	Peak	Horizontal
	11293.5	31.0	16.2	47.2	74.0	-26.8	Peak	Horizontal
	17860.6	18.5	28.6	47.1	54.0	-6.9	Average	Horizontal
	17860.6	31.2	28.6	59.8	74.0	-14.2	Peak	Horizontal
	4804.6	35.1	2.9	38.0	74.0	-36.0	Peak	Vertical
	11545.1	31.0	16.3	47.3	74.0	-26.7	Peak	Vertical
	17928.6	18.5	28.3	46.8	54.0	-7.2	Average	Vertical
	17928.6	31.1	28.3	59.4	74.0	-14.6	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-AC2	Test Date	2025-04-10
Temperature	28.9 °C	Humidity	41.1 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	VULB 9162_00047	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 2DH5 at 2402MHz		

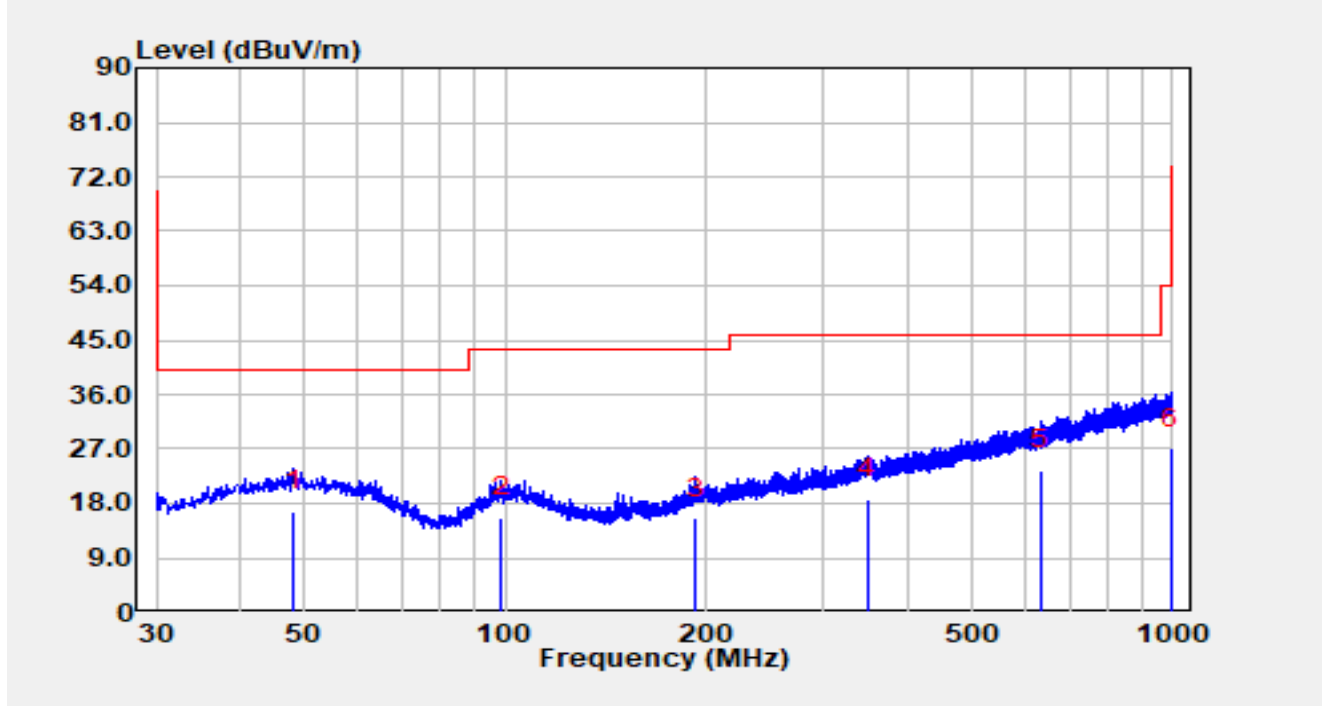


No	Mark	Frequency (MHz)	Reading (dBm)	C.F (dB)	Measurement (dBm)	Margin (dB)	Limit (dBm)	Detector
1		48.62	-3.95	20.54	16.59	-23.41	40.00	QP
2		109.73	-2.82	18.29	15.47	-28.03	43.50	QP
3		315.57	-3.12	21.41	18.28	-27.72	46.00	QP
4		498.41	-3.67	25.28	21.61	-24.39	46.00	QP
5	*	792.91	-4.23	30.41	26.18	-19.82	46.00	QP
6		976.62	-4.75	31.85	27.10	-26.90	54.00	QP

Notes:

- " * ", means this data is the worst emission level.
- C.F (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi)
- Measurement (dBm) = Reading (dBm) + C.F (dB).
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC2	Test Date	2025-04-10
Temperature	28.9 °C	Humidity	41.1 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	VULB 9162_00047	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 2DH5 at 2402MHz		



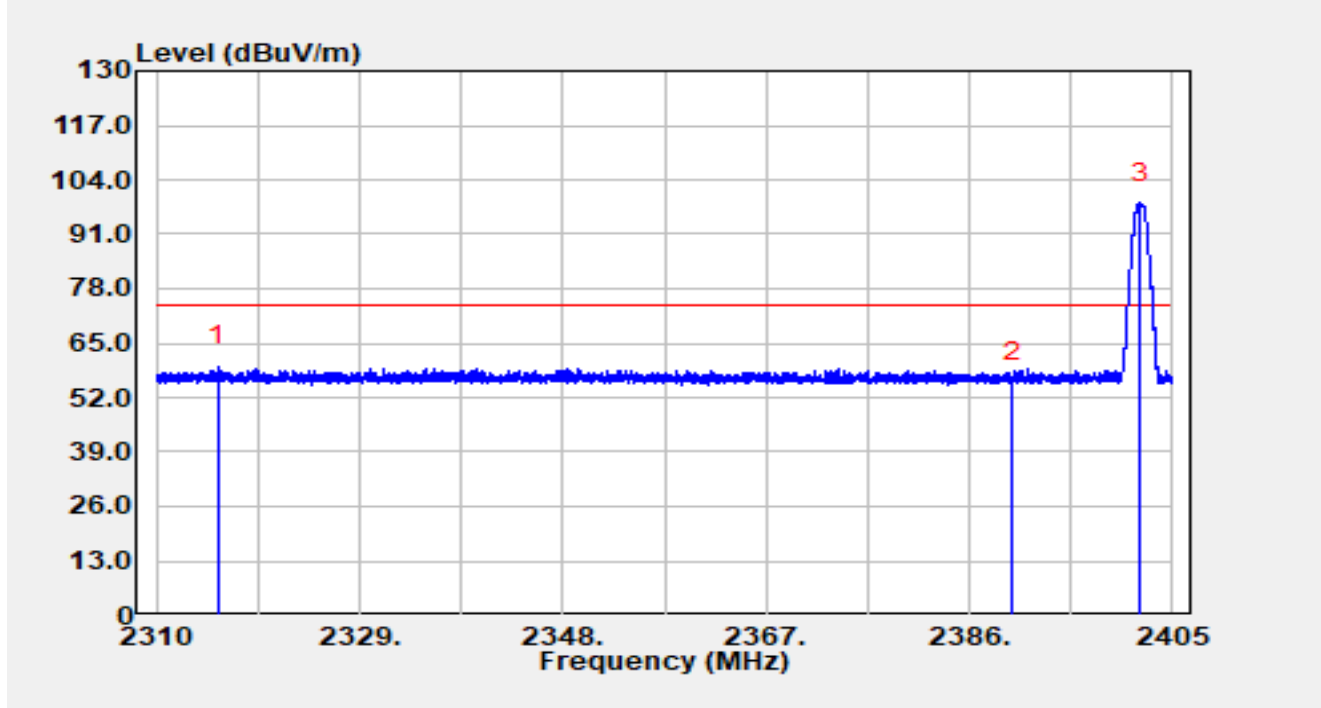
No	Mark	Frequency (MHz)	Reading (dBm)	C.F (dB)	Measurement (dBm)	Margin (dB)	Limit (dBm)	Detector
1		48.14	-3.74	20.48	16.74	-23.26	40.00	QP
2		98.87	-2.97	18.61	15.64	-27.86	43.50	QP
3		192.96	-2.81	18.40	15.58	-27.92	43.50	QP
4		348.16	-4.16	22.85	18.69	-27.31	46.00	QP
5	*	634.60	-4.02	27.46	23.44	-22.56	46.00	QP
6		995.64	-5.15	32.26	27.11	-26.89	54.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi)
- Measurement (dBm) = Reading (dBm) + C.F (dB).
- 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	WZ-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT DH5 at 2402MHz		

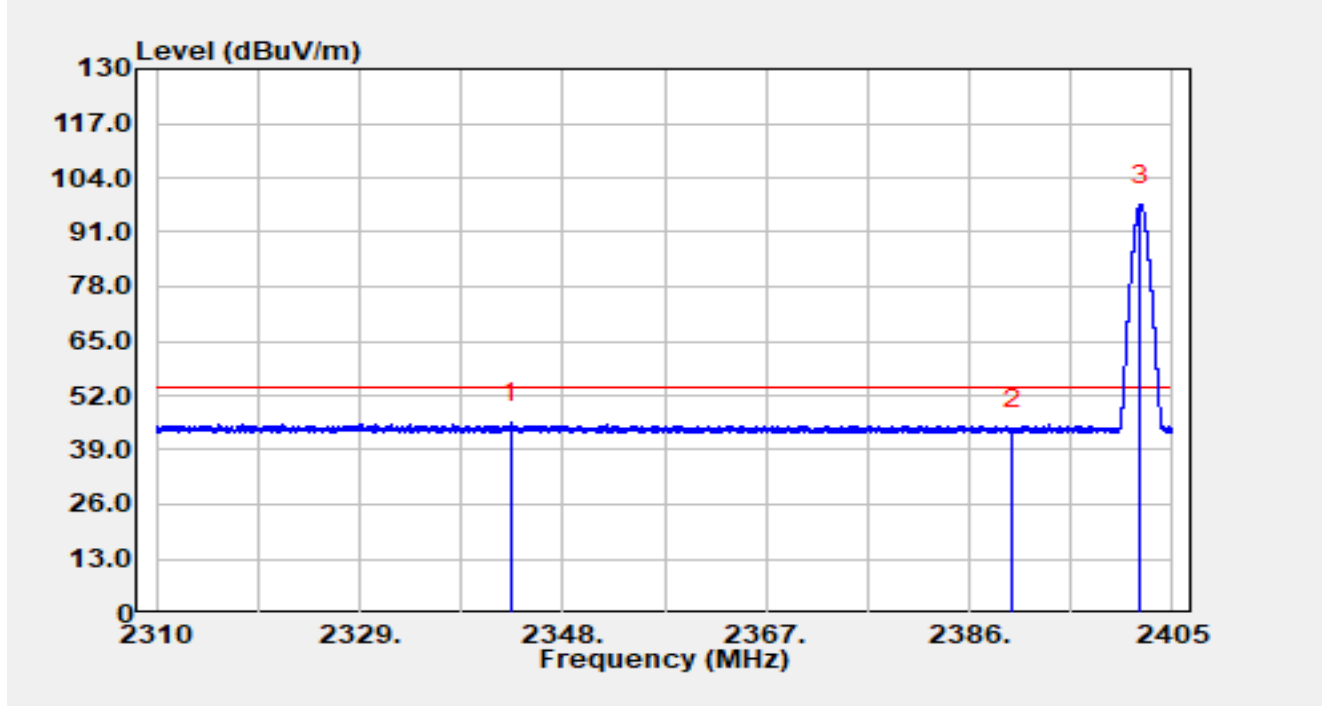


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2315.79	26.65	32.74	59.39	-14.61	74.00	Peak
2		2390.00	23.18	32.52	55.70	-18.30	74.00	Peak
3		2402.01	66.01	32.49	98.50	N/A	N/A	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT DH5 at 2402MHz		

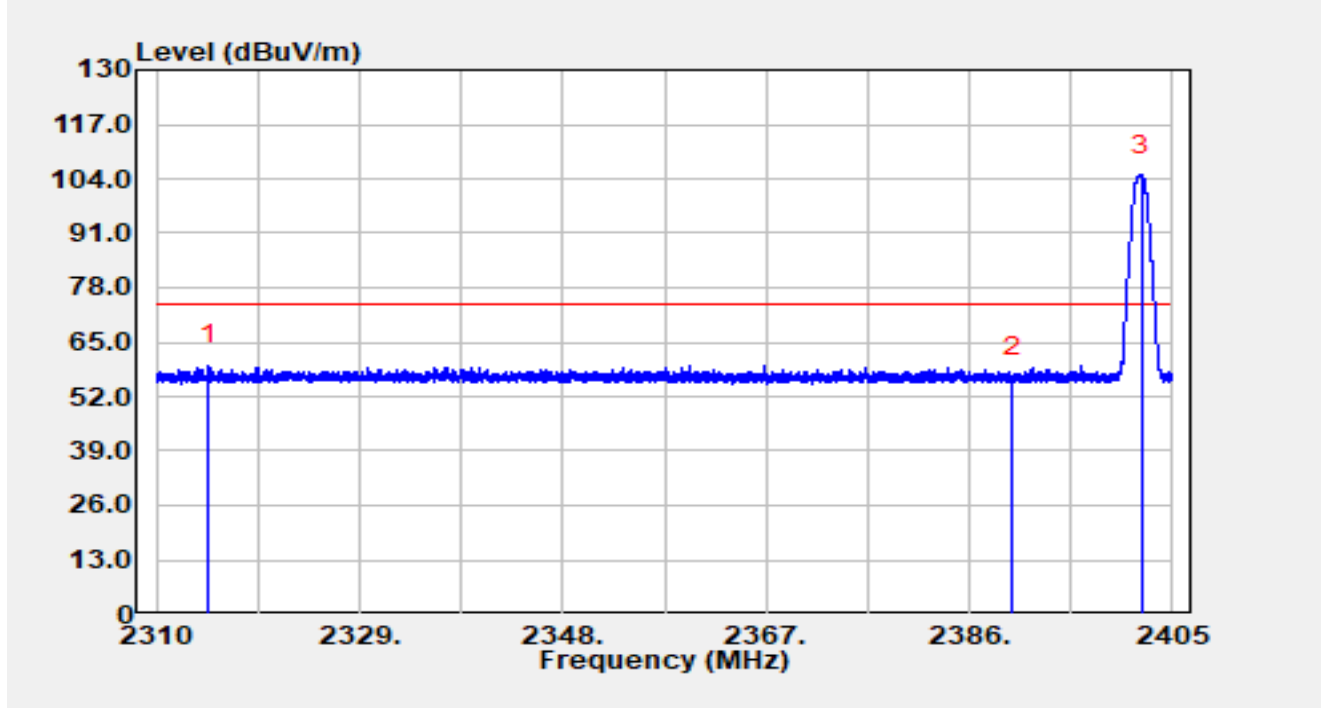


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2343.09	12.74	32.75	45.49	-8.51	54.00	Average
2		2390.00	11.47	32.52	43.99	-10.01	54.00	Average
3		2402.02	65.06	32.49	97.55	N/A	N/A	Average

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT DH5 at 2402MHz		

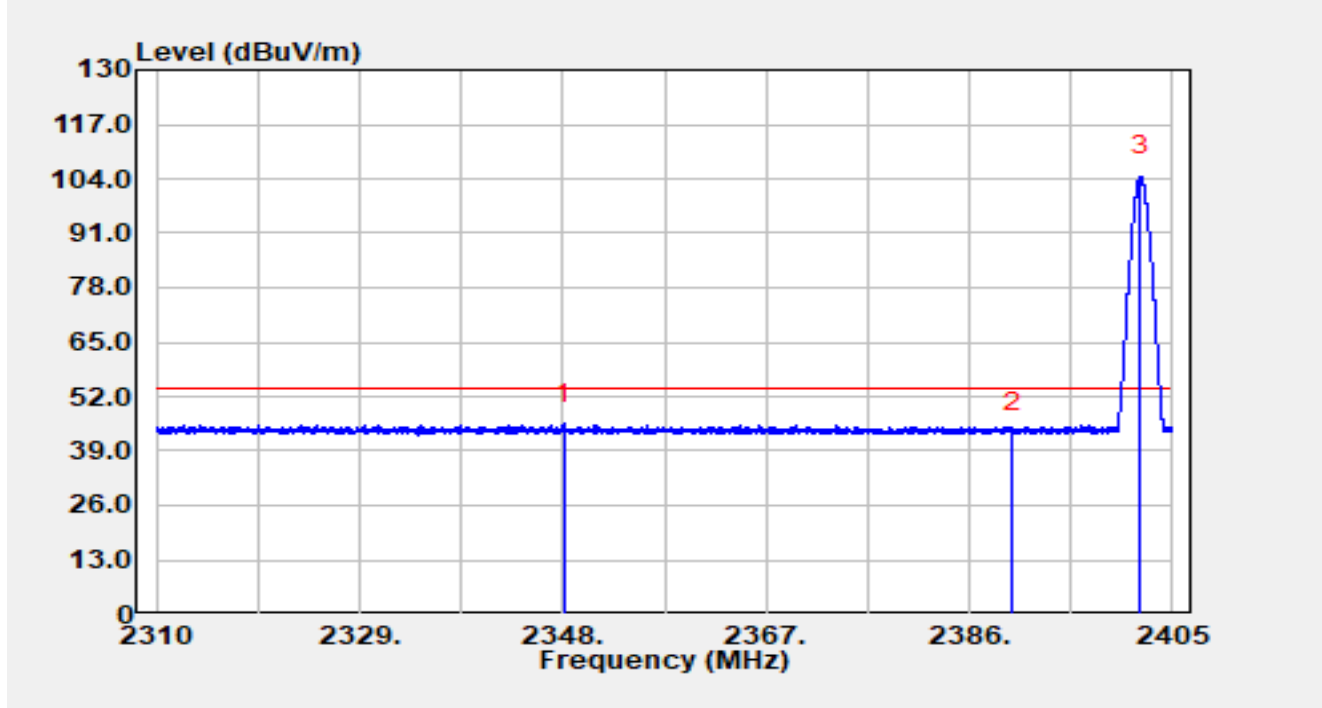


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2314.93	26.80	32.74	59.54	-14.46	74.00	Peak
2		2390.00	23.91	32.52	56.43	-17.57	74.00	Peak
3		2402.15	72.28	32.49	104.77	N/A	N/A	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT DH5 at 2402MHz		

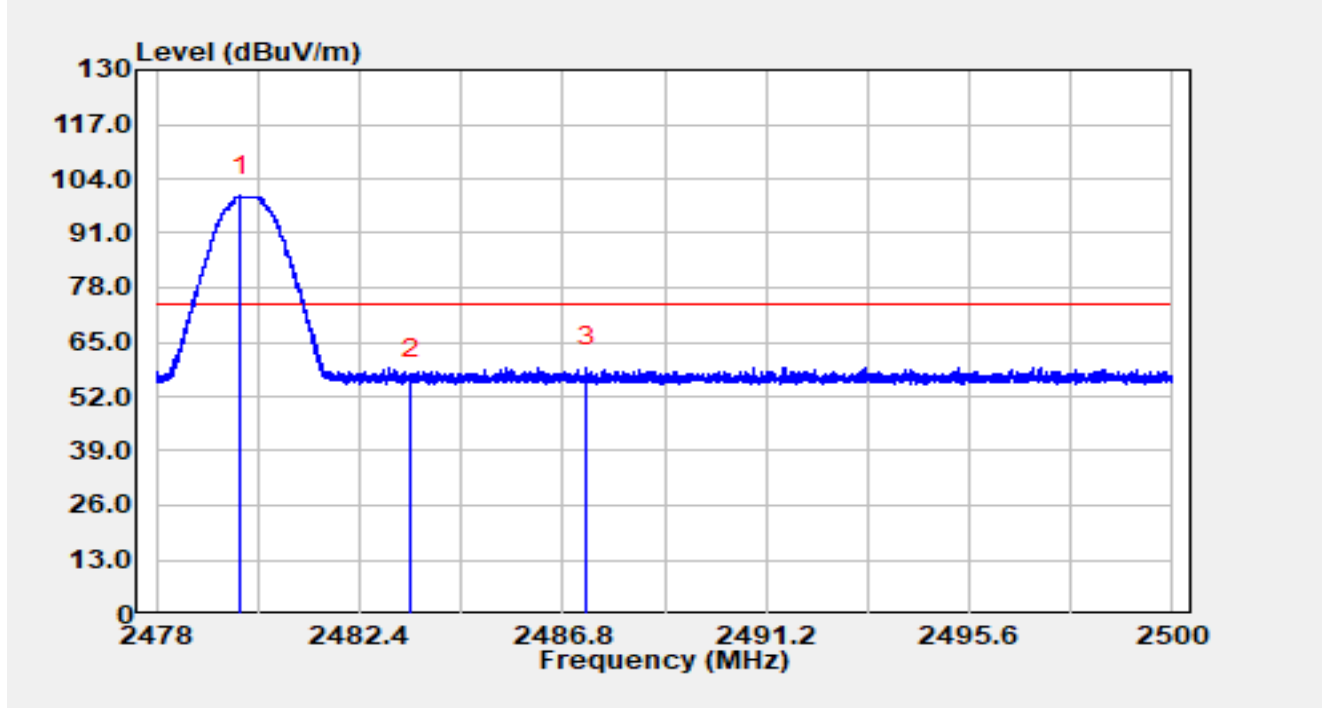


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2348.05	12.68	32.75	45.43	-8.57	54.00	Average
2		2390.00	10.76	32.52	43.27	-10.73	54.00	Average
3		2402.02	72.03	32.49	104.53	N/A	N/A	Average

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT DH5 at 2480MHz		

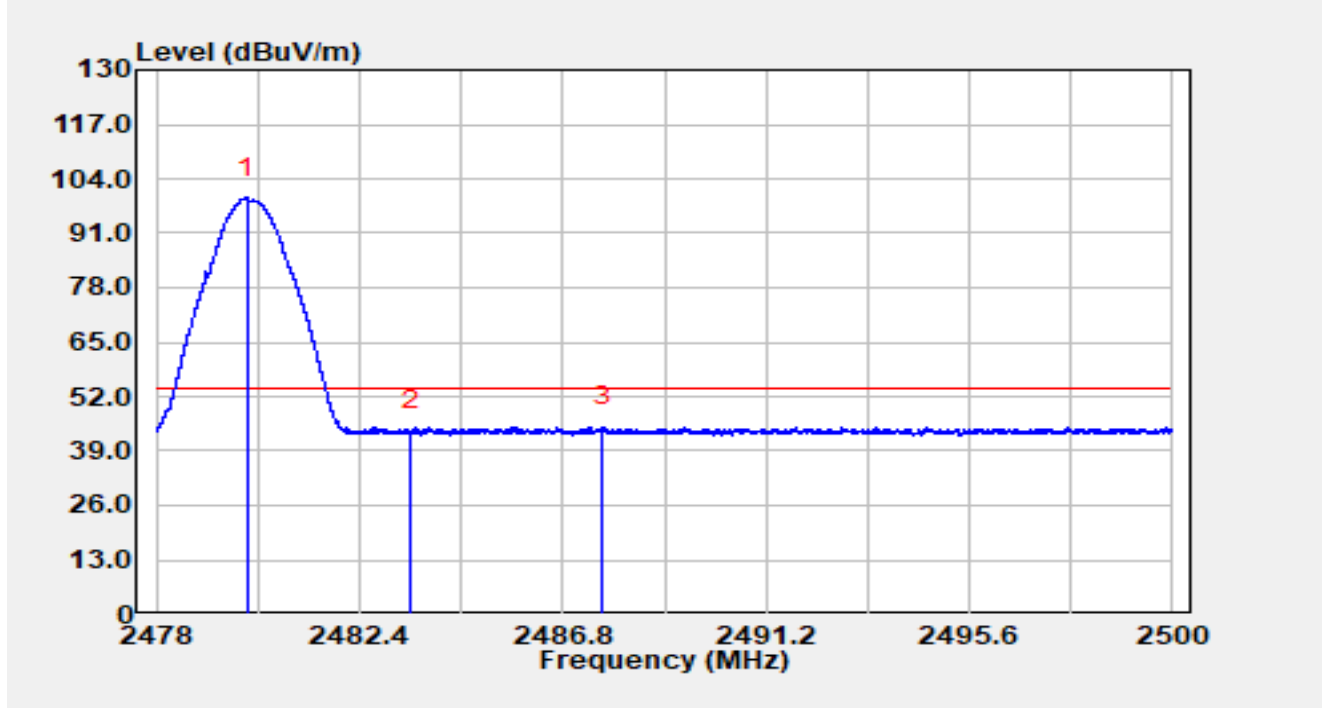


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.81	67.46	32.40	99.87	N/A	N/A	Peak
2		2483.50	23.82	32.40	56.22	-17.78	74.00	Peak
3	*	2487.32	26.71	32.39	59.11	-14.89	74.00	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT DH5 at 2480MHz		

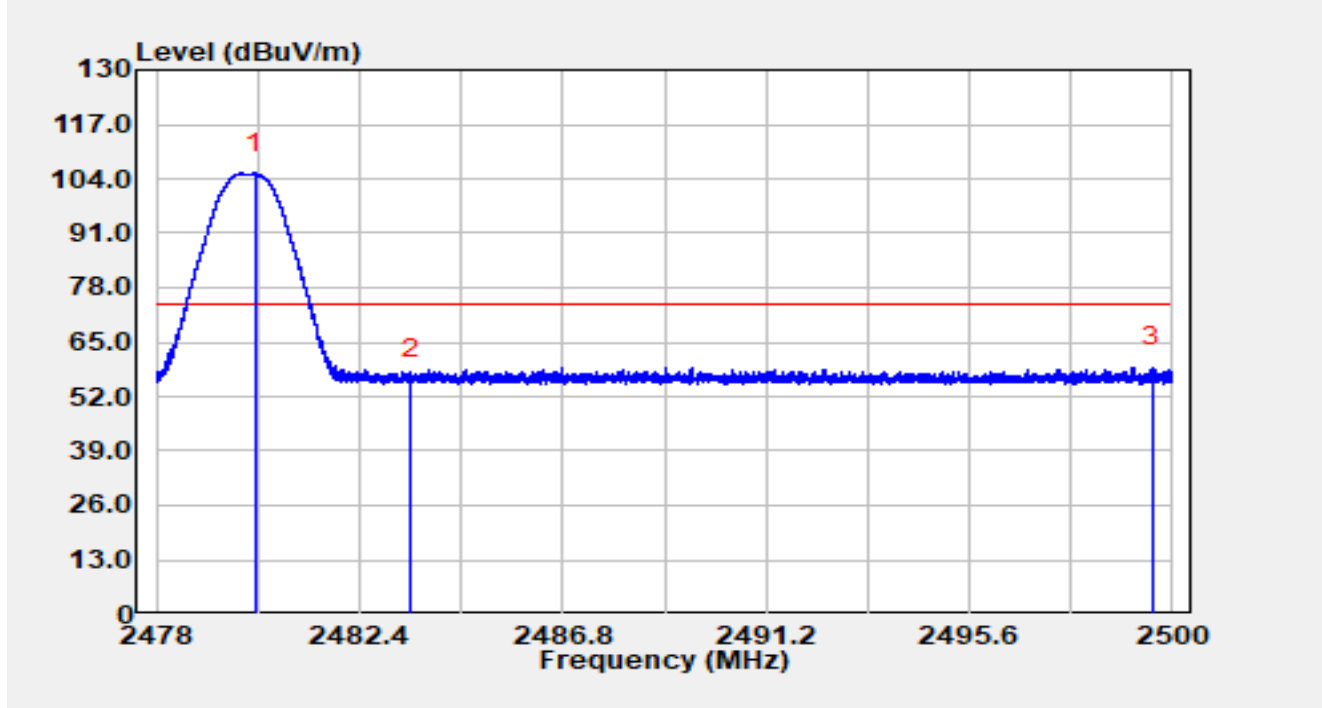


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.97	67.12	32.40	99.52	N/A	N/A	Average
2		2483.50	11.35	32.40	43.75	-10.25	54.00	Average
3	*	2487.66	12.35	32.39	44.74	-9.26	54.00	Average

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT DH5 at 2480MHz		

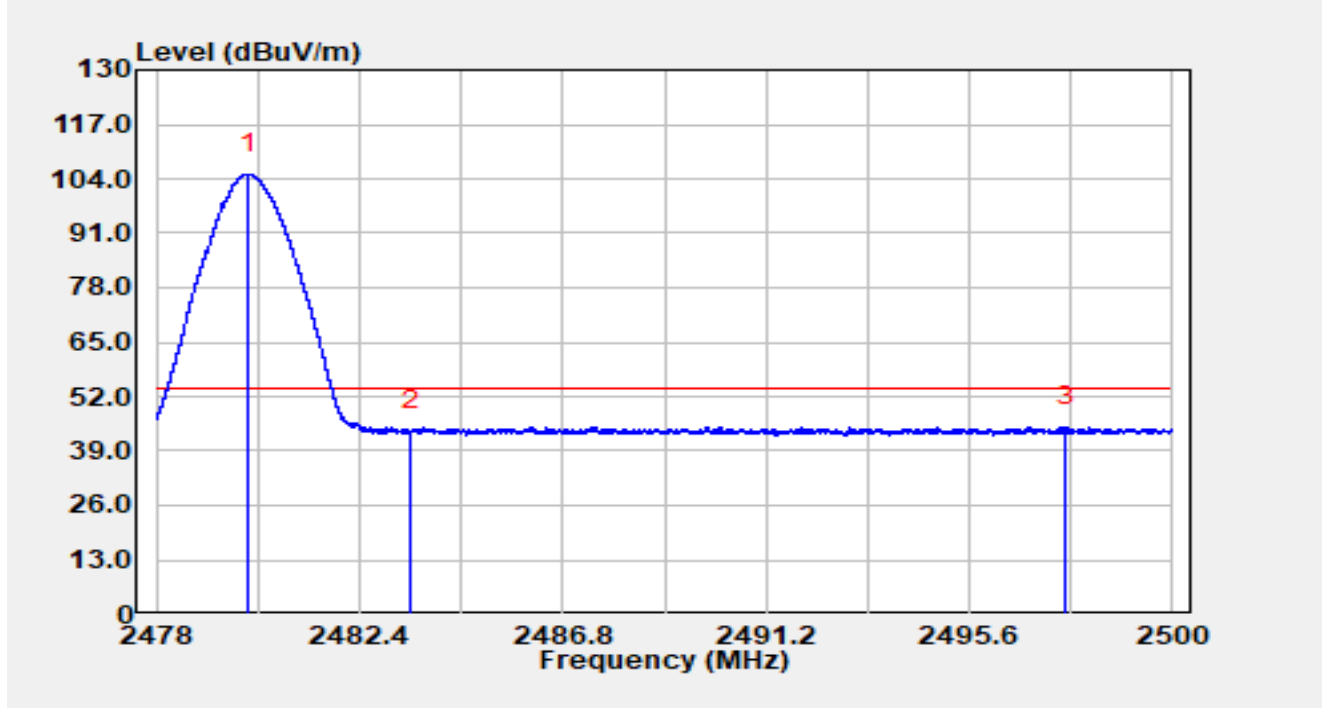


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.13	72.93	32.40	105.33	N/A	N/A	Peak
2		2483.50	23.70	32.40	56.10	-17.90	74.00	Peak
3	*	2499.55	26.62	32.40	59.02	-14.98	74.00	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT DH5 at 2480MHz		

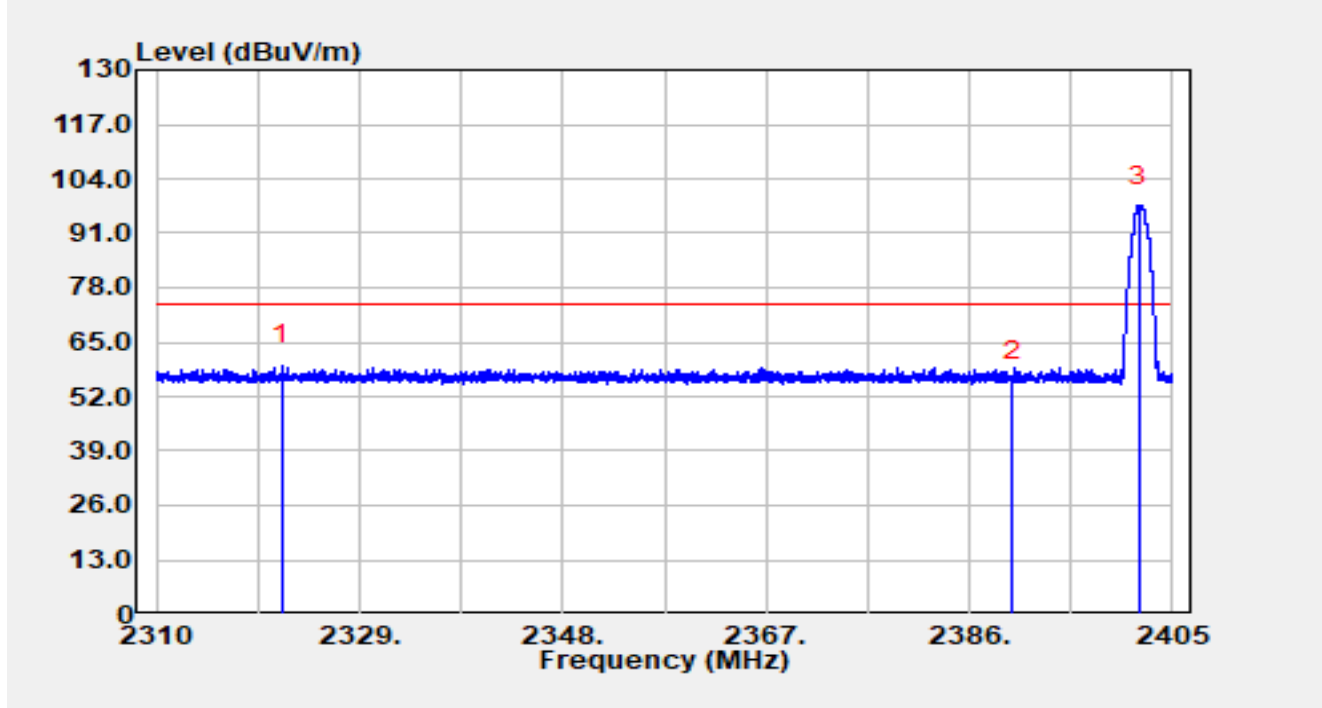


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.01	72.67	32.40	105.08	N/A	N/A	Average
2		2483.50	11.29	32.40	43.69	-10.31	54.00	Average
3	*	2497.70	12.33	32.40	44.73	-9.27	54.00	Average

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 2DH5 at 2402MHz		

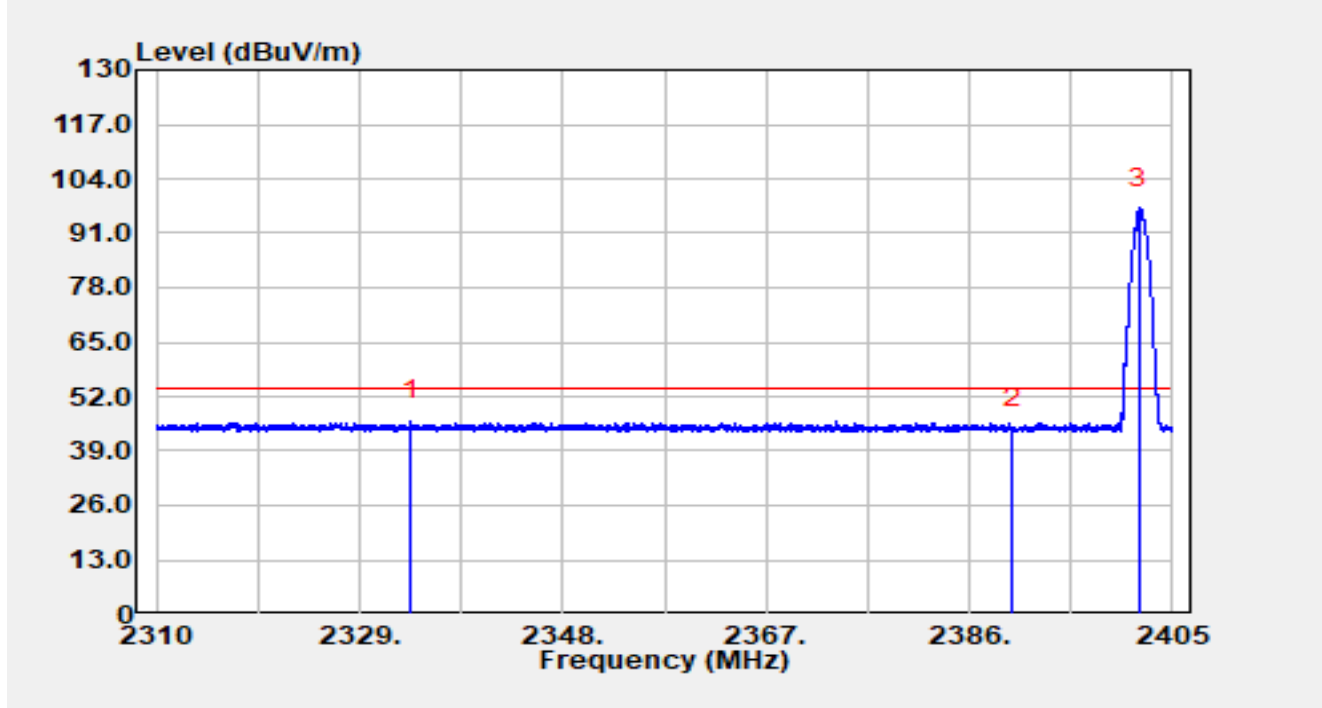


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2321.78	26.64	32.74	59.38	-14.62	74.00	Peak
2		2390.00	22.96	32.52	55.48	-18.52	74.00	Peak
3		2401.85	65.06	32.49	97.55	N/A	N/A	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 2DH5 at 2402MHz		

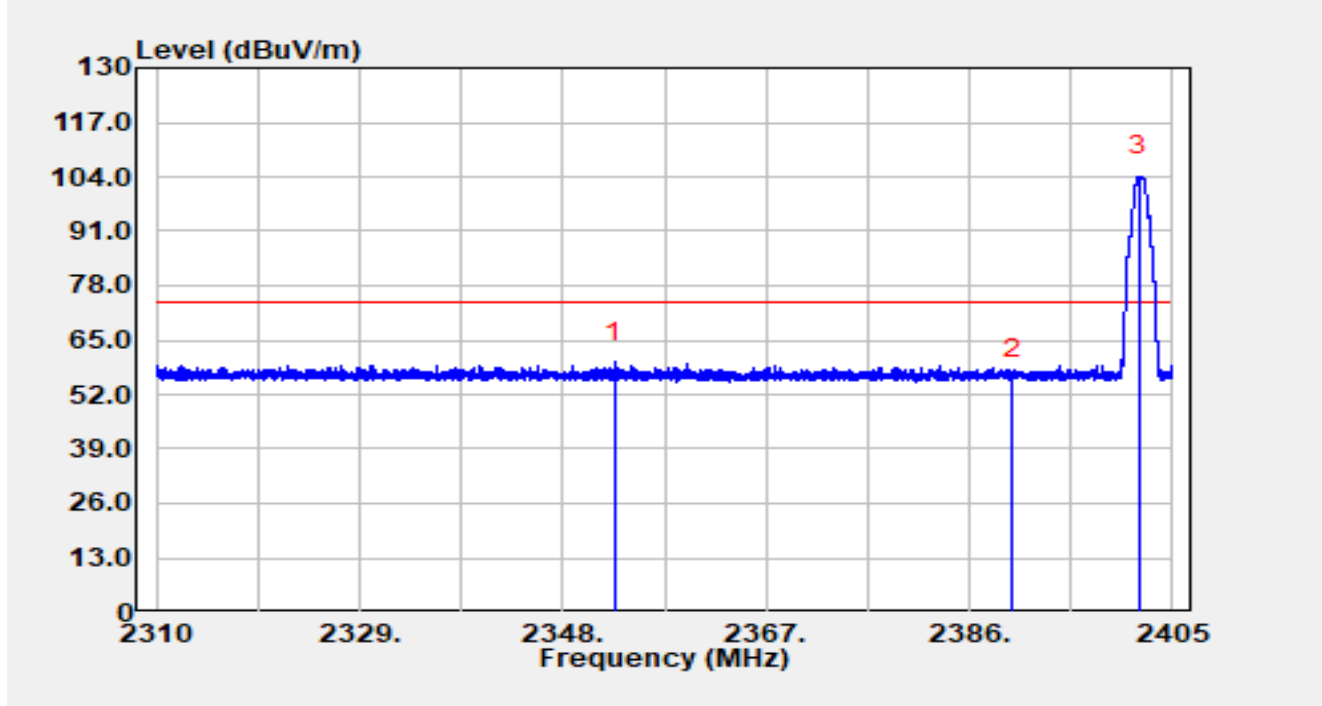


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2333.82	13.52	32.75	46.27	-7.73	54.00	Average
2		2390.00	12.10	32.52	44.61	-9.39	54.00	Average
3		2401.89	64.52	32.49	97.01	N/A	N/A	Average

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 2DH5 at 2402MHz		

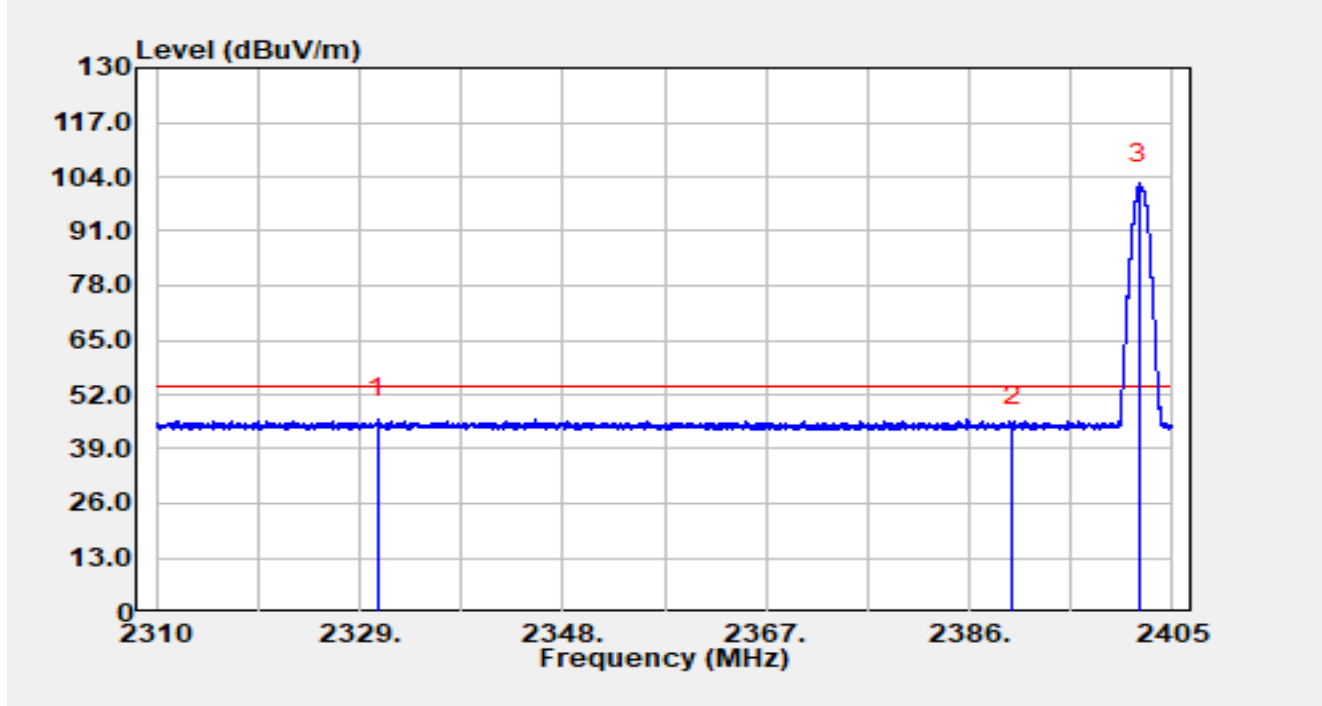


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2352.86	26.93	32.71	59.64	-14.36	74.00	Peak
2		2390.00	23.01	32.52	55.53	-18.47	74.00	Peak
3		2401.81	71.56	32.49	104.06	N/A	N/A	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 2DH5 at 2402MHz		

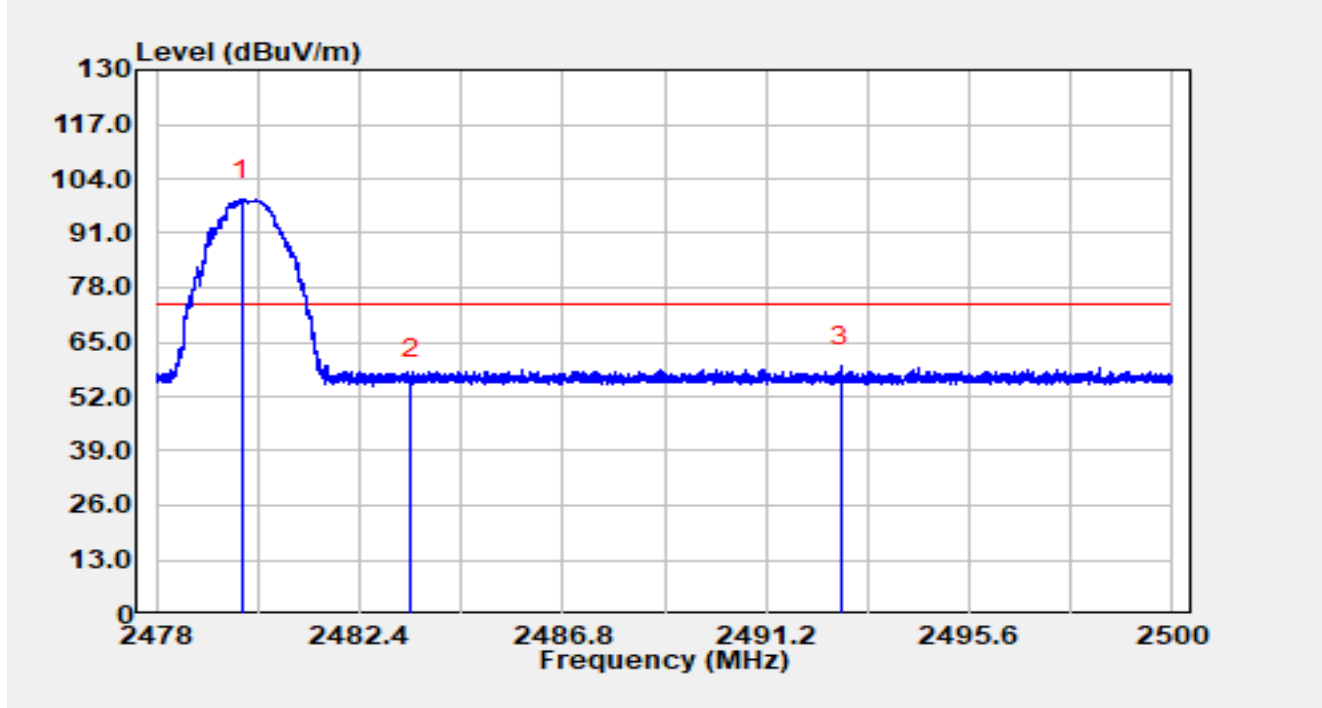


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2330.74	13.55	32.75	46.30	-7.70	54.00	Average
2		2390.00	11.87	32.52	44.39	-9.61	54.00	Average
3		2401.89	69.89	32.49	102.38	N/A	N/A	Average

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 2DH5 at 2480MHz		

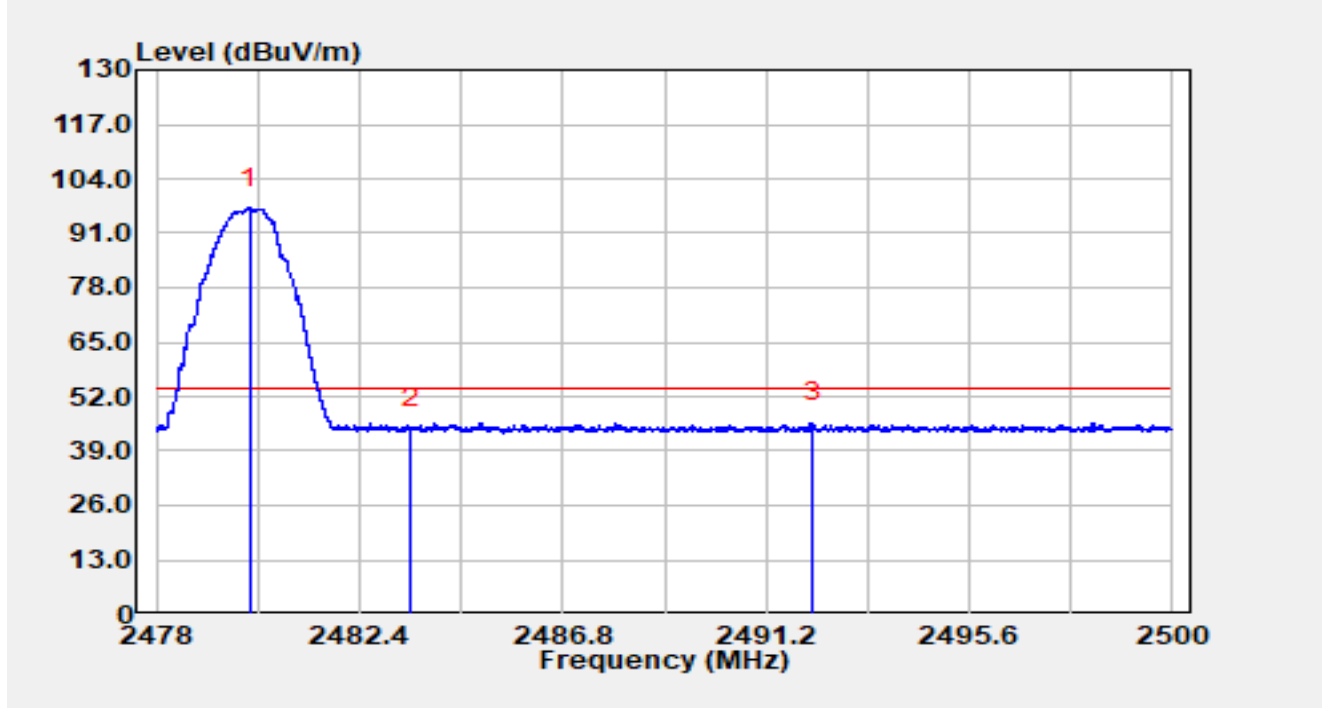


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.85	66.57	32.40	98.97	N/A	N/A	Peak
2		2483.50	23.97	32.40	56.37	-17.63	74.00	Peak
3	*	2492.83	26.74	32.39	59.13	-14.87	74.00	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 2DH5 at 2480MHz		

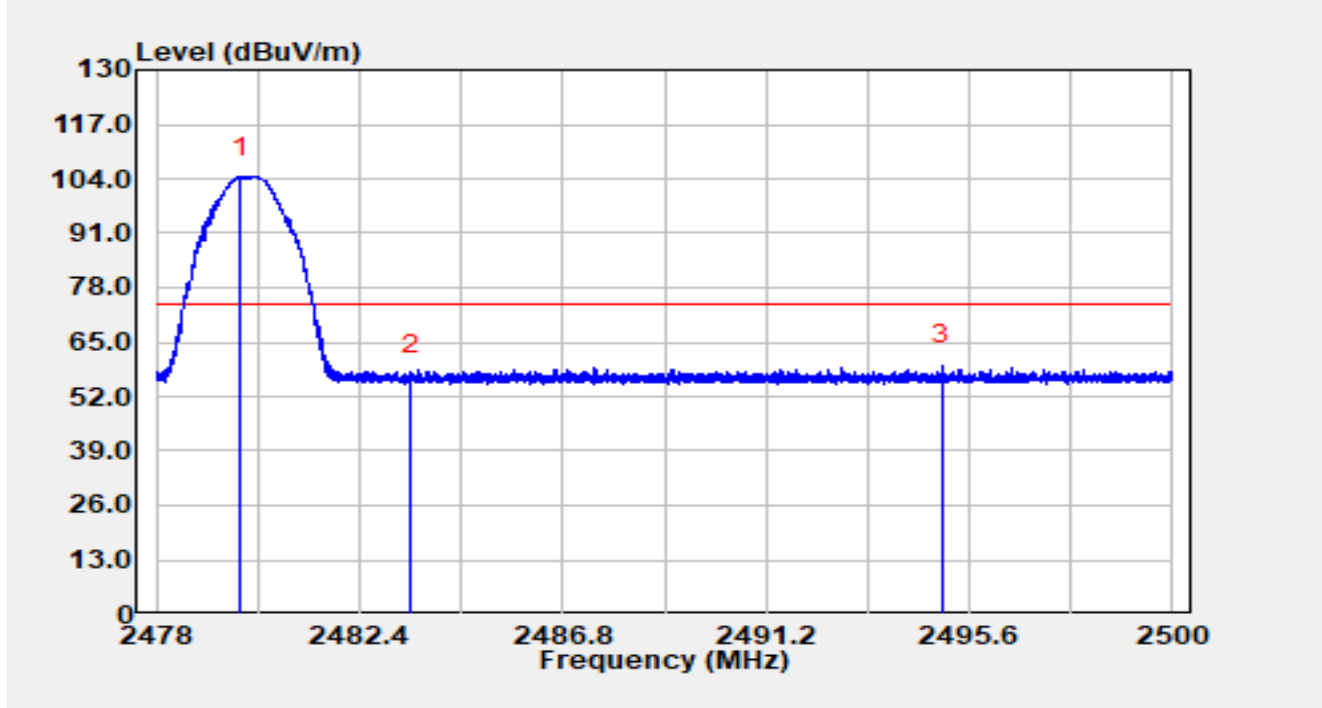


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.02	64.59	32.40	96.99	N/A	N/A	Average
2		2483.50	11.88	32.40	44.28	-9.72	54.00	Average
3	*	2492.22	13.39	32.39	45.77	-8.23	54.00	Average

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 2DH5 at 2480MHz		

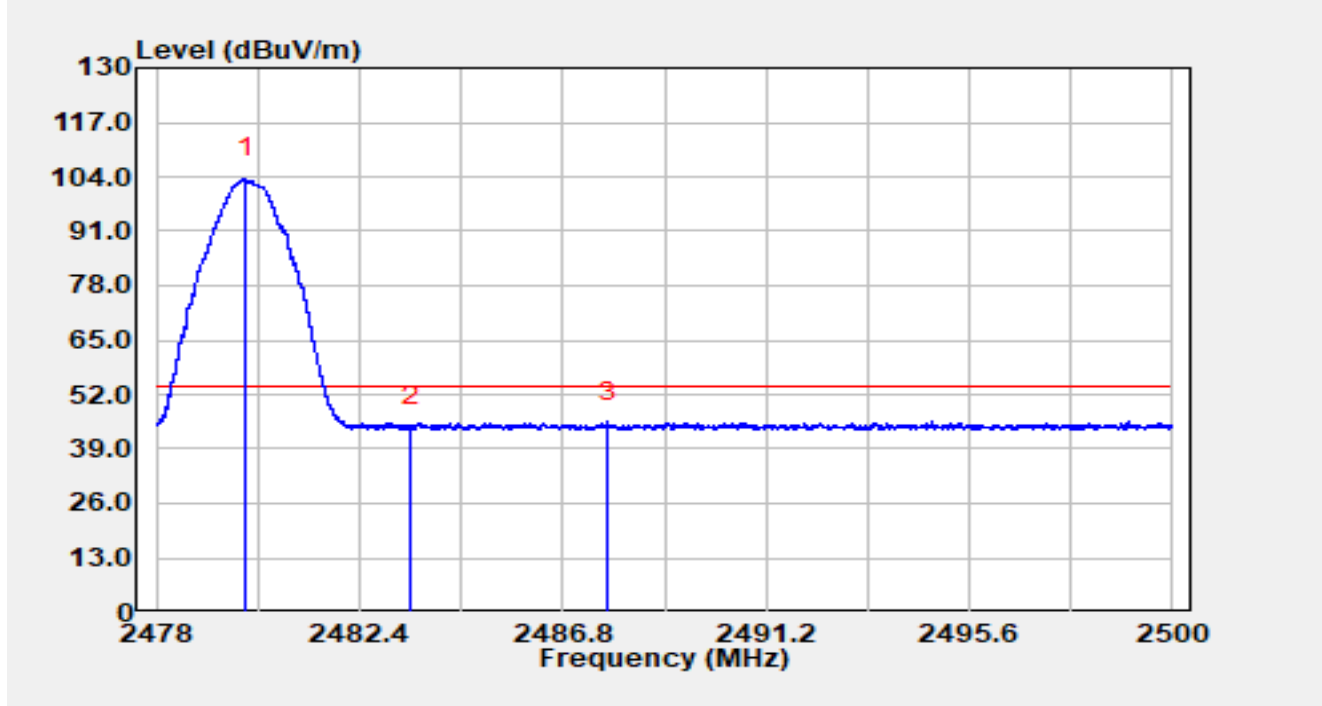


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.83	72.06	32.40	104.47	N/A	N/A	Peak
2		2483.50	24.81	32.40	57.21	-16.79	74.00	Peak
3	*	2495.02	27.06	32.39	59.45	-14.55	74.00	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 2DH5 at 2480MHz		

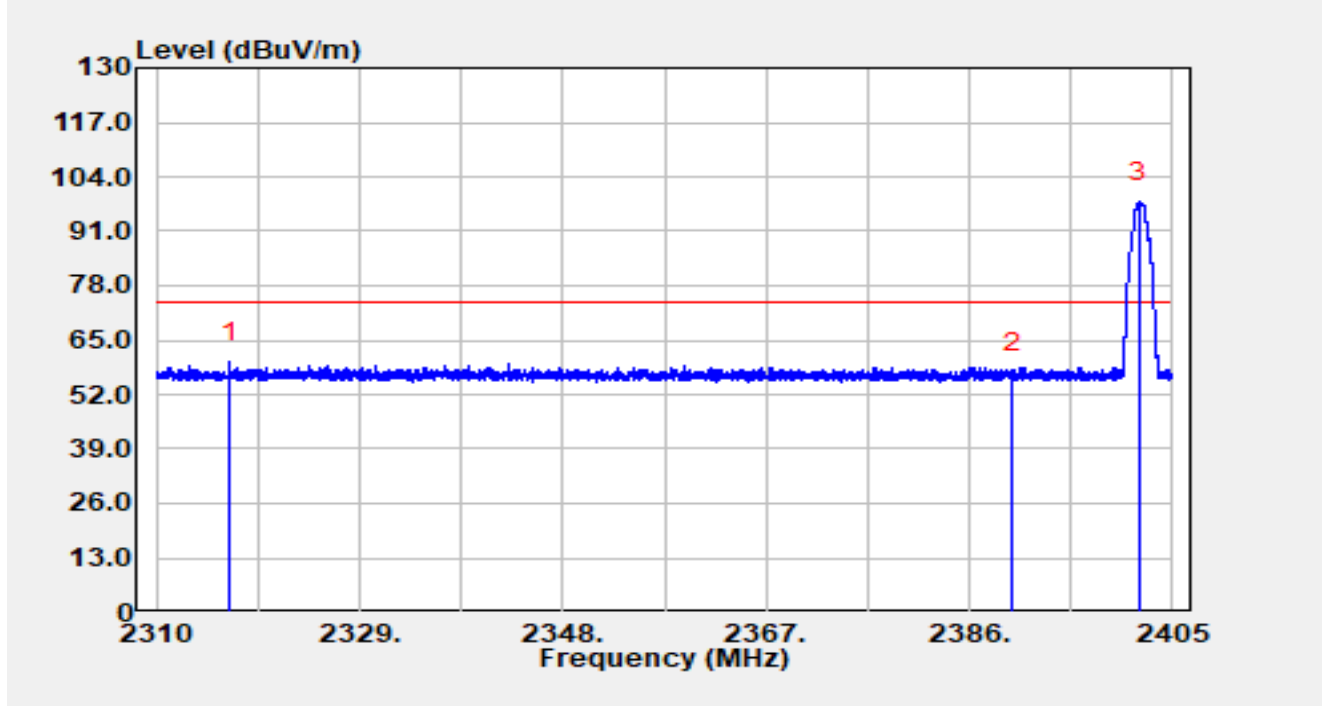


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.94	71.31	32.40	103.72	N/A	N/A	Average
2		2483.50	11.98	32.40	44.38	-9.62	54.00	Average
3	*	2487.77	13.08	32.39	45.47	-8.53	54.00	Average

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 3DH5 at 2402MHz		

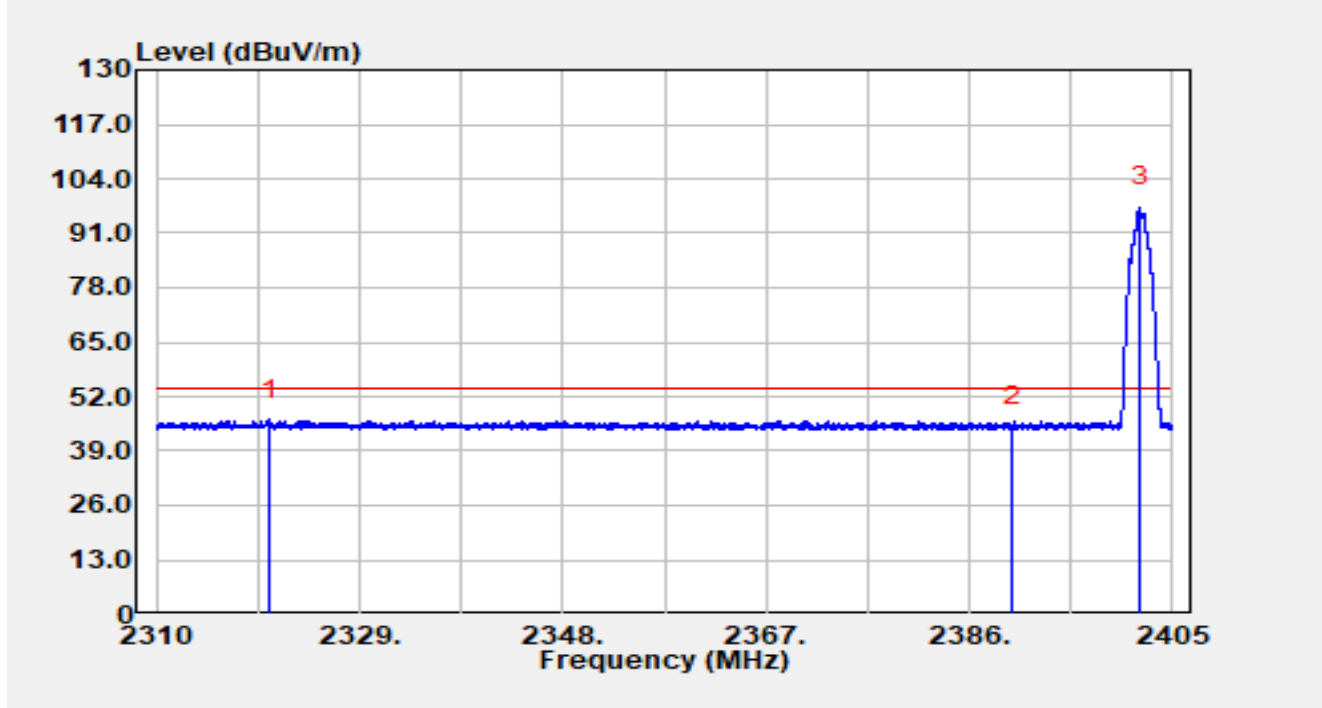


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2316.87	26.92	32.74	59.65	-14.35	74.00	Peak
2		2390.00	24.71	32.52	57.23	-16.77	74.00	Peak
3		2401.84	65.38	32.49	97.87	N/A	N/A	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 3DH5 at 2402MHz		

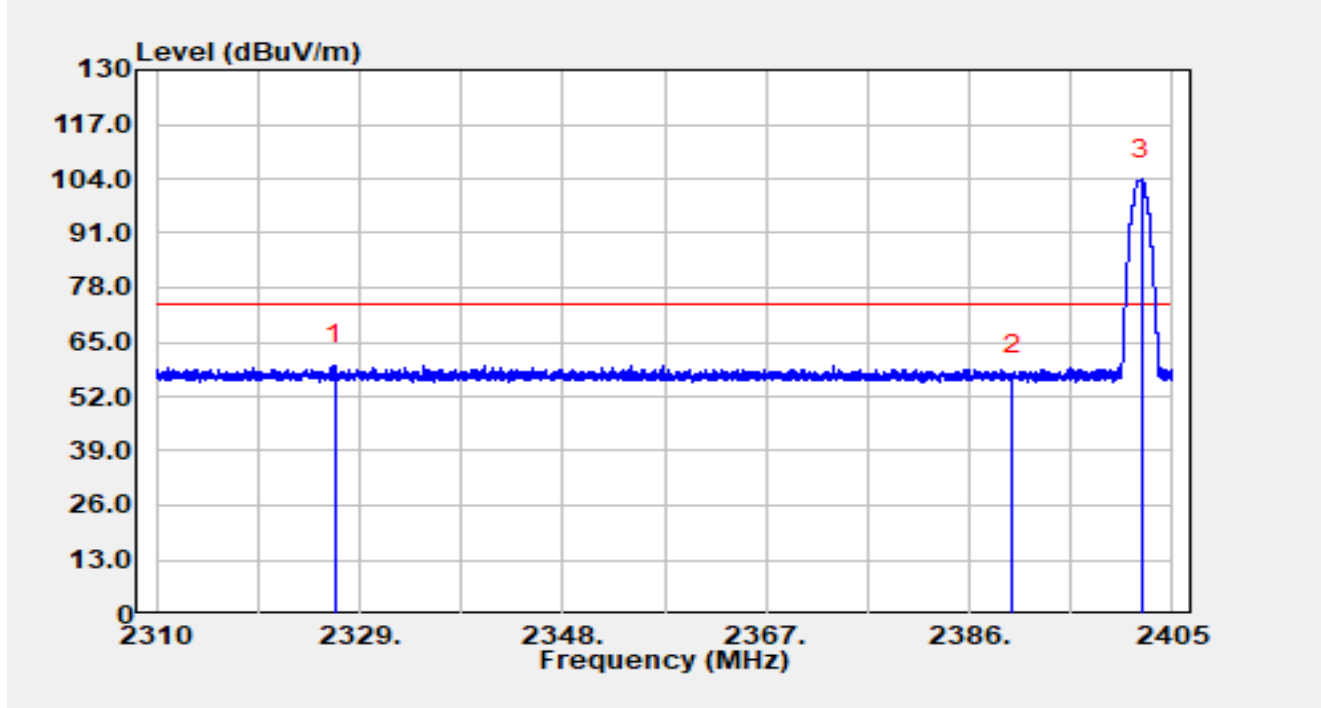


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2320.59	13.68	32.74	46.42	-7.58	54.00	Average
2		2390.00	12.55	32.52	45.07	-8.93	54.00	Average
3		2401.97	64.76	32.49	97.26	N/A	N/A	Average

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 3DH5 at 2402MHz		

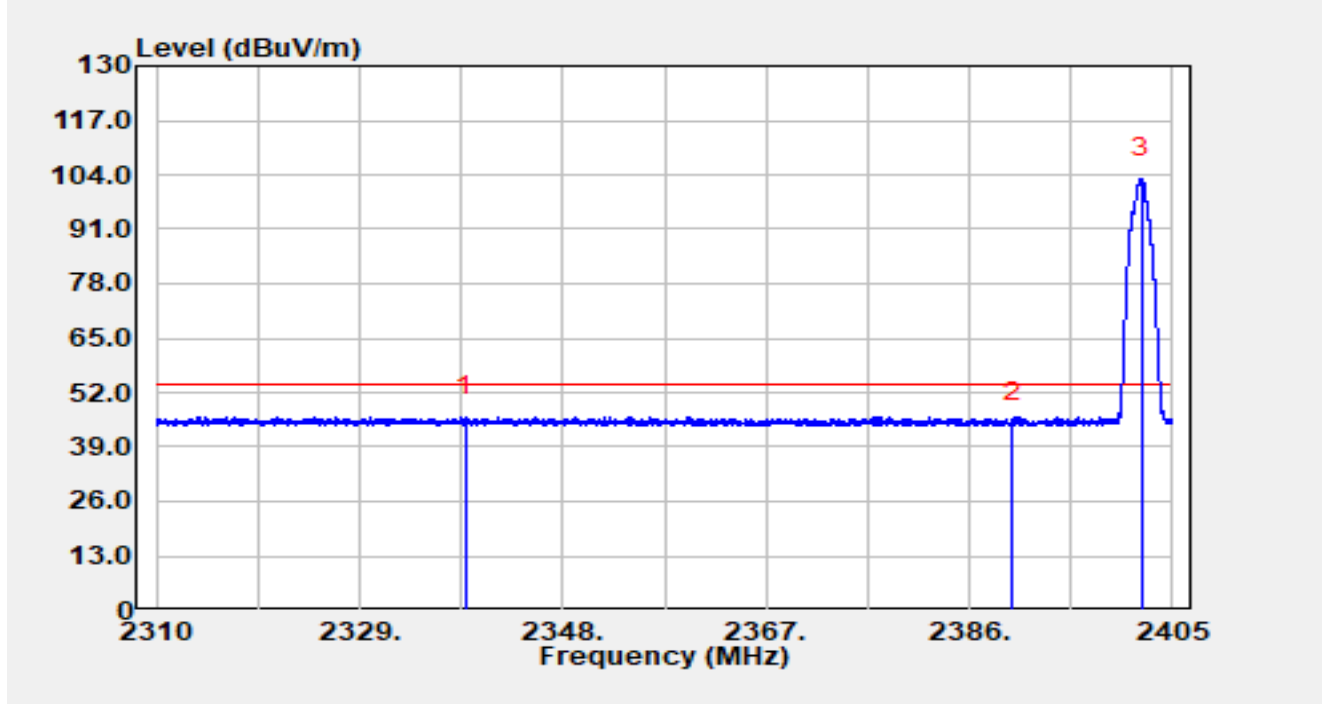


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2326.64	26.84	32.75	59.59	-14.41	74.00	Peak
2		2390.00	24.51	32.52	57.03	-16.97	74.00	Peak
3		2402.15	71.43	32.49	103.92	N/A	N/A	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 3DH5 at 2402MHz		

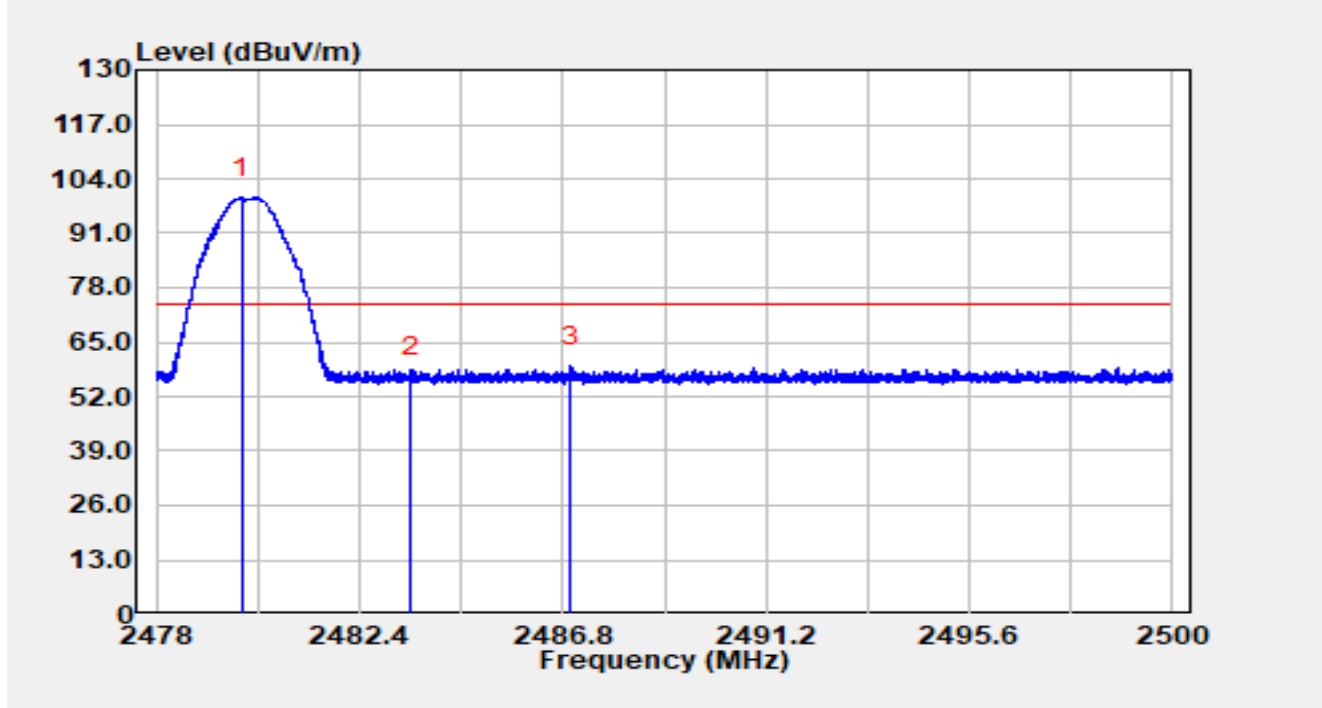


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2338.91	13.56	32.75	46.31	-7.69	54.00	Average
2		2390.00	12.13	32.52	44.65	-9.35	54.00	Average
3		2402.06	70.68	32.49	103.17	N/A	N/A	Average

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 3DH5 at 2480MHz		

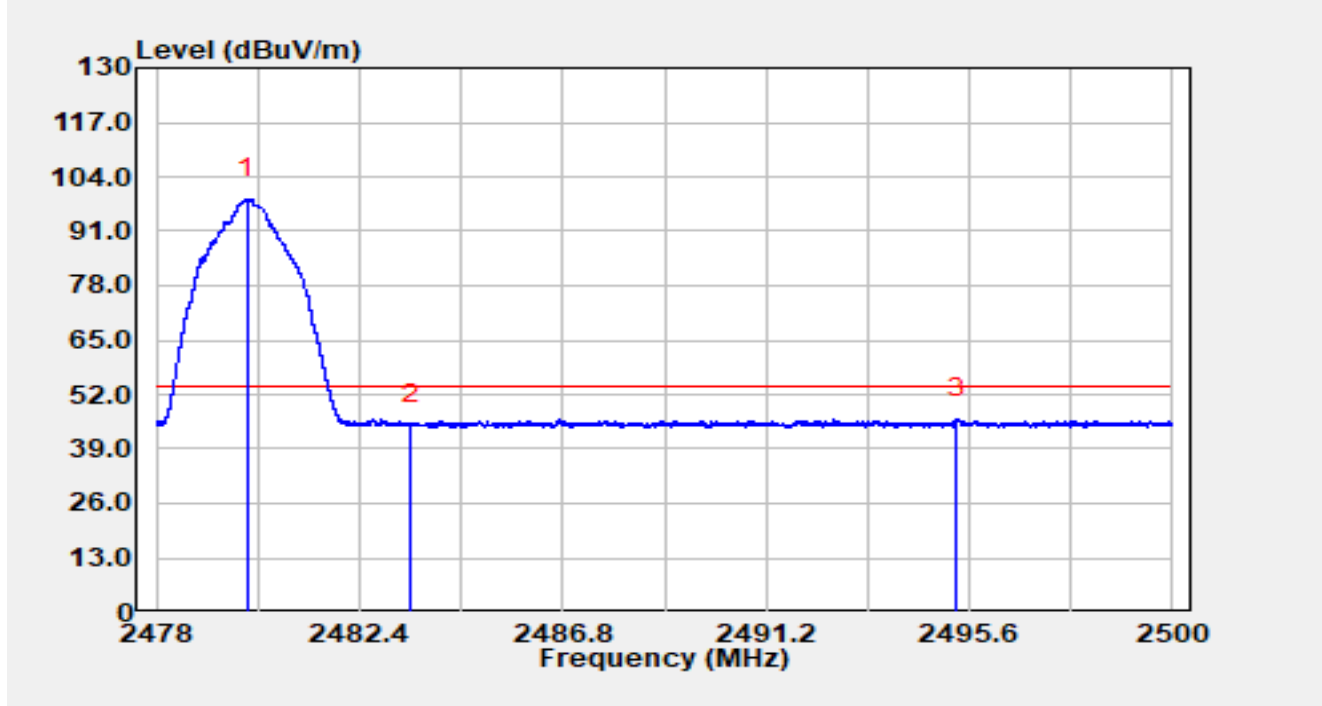


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.84	67.09	32.40	99.49	N/A	N/A	Peak
2		2483.50	24.22	32.40	56.62	-17.38	74.00	Peak
3	*	2486.97	26.78	32.39	59.17	-14.83	74.00	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 3DH5 at 2480MHz		

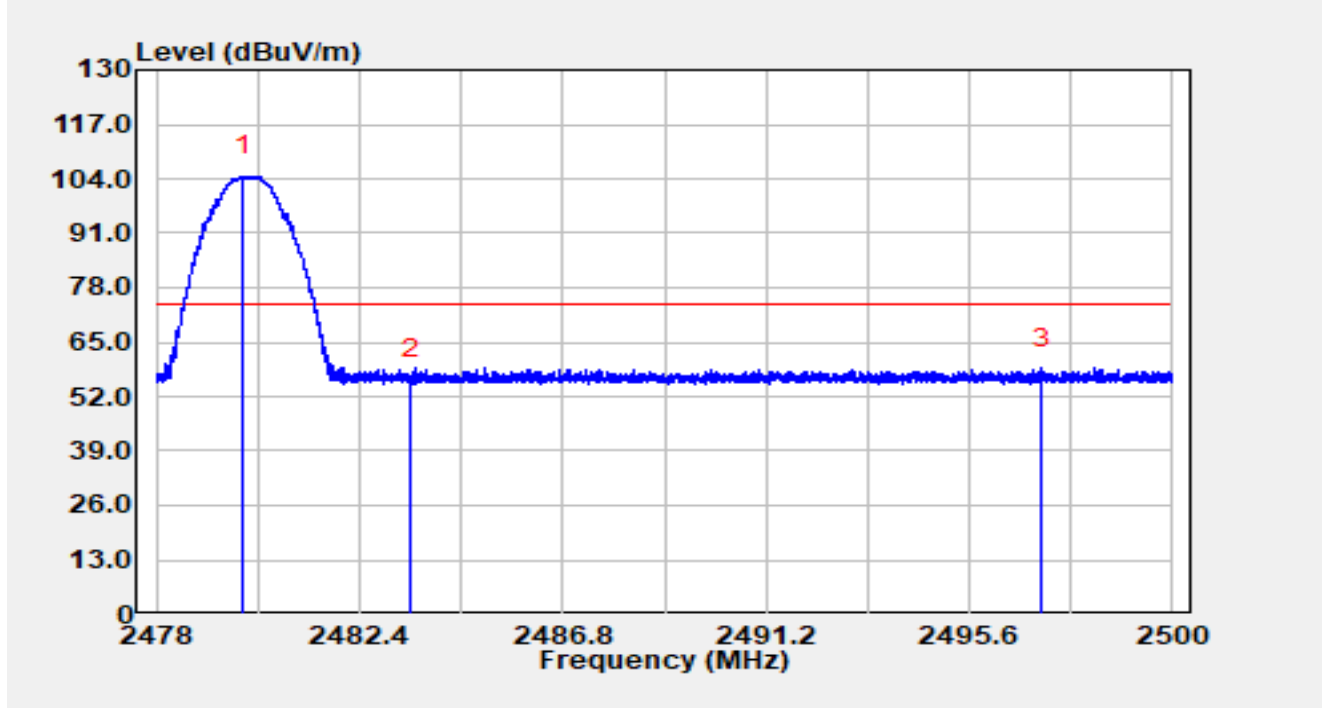


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.97	66.31	32.40	98.72	N/A	N/A	Average
2		2483.50	12.60	32.40	45.00	-9.00	54.00	Average
3	*	2495.31	13.87	32.39	46.26	-7.74	54.00	Average

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 3DH5 at 2480MHz		

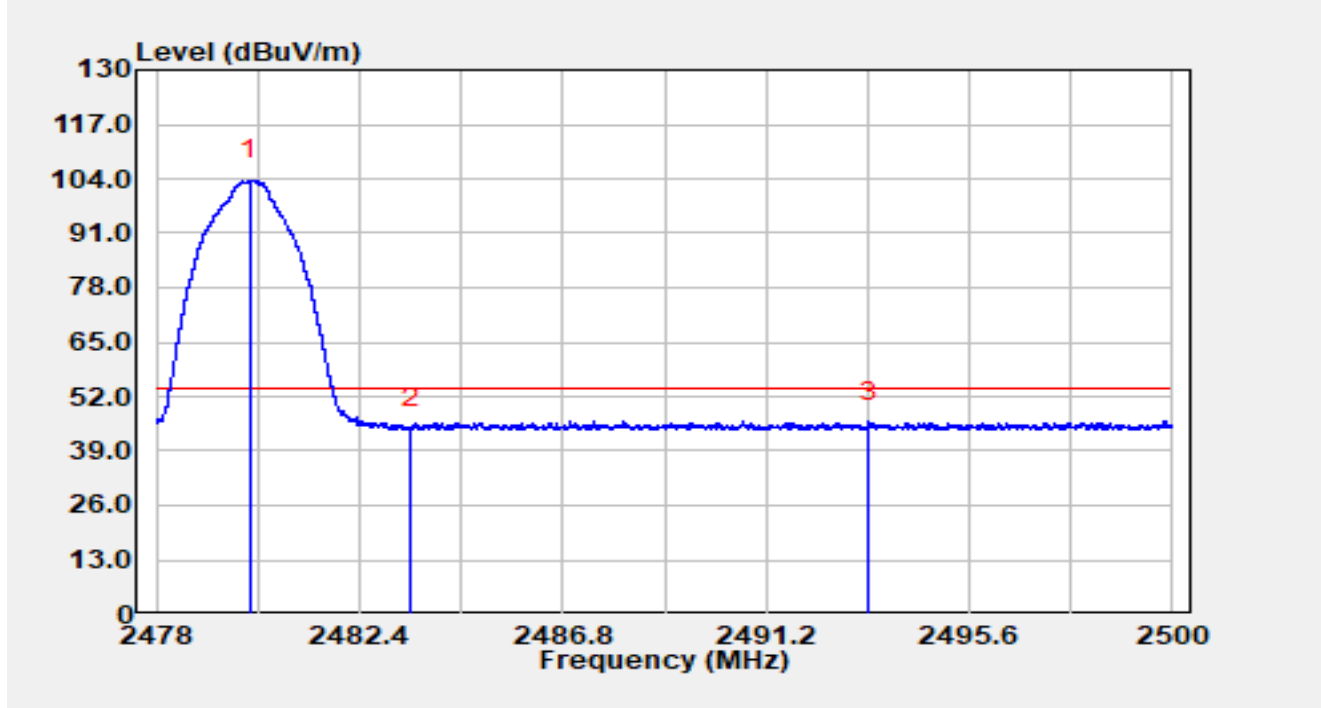


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.88	72.18	32.40	104.58	N/A	N/A	Peak
2		2483.50	23.80	32.40	56.20	-17.80	74.00	Peak
3	*	2497.18	26.45	32.40	58.85	-15.15	74.00	Peak

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-AC2	Test Date	2025-04-03
Temperature	27.0 °C	Humidity	33.5 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BT 3DH5 at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.04	71.22	32.40	103.62	N/A	N/A	Average
2		2483.50	11.97	32.40	44.37	-9.63	54.00	Average
3	*	2493.43	13.70	32.39	46.09	-7.91	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).

Appendix B - Test Setup Photograph

Refer to "R25S1004041-UT" file.

Appendix C - EUT Photograph

Refer to "R25S1004041-UE" file.