RF MEASUREMENT REPORT

FCC ID:	U4GDL36WF
Applicant:	Datalogic S.r.l.
Product:	Barcode Reader
Model No.:	DL36WF
Brand Name:	DATALOGIC
FCC Classification:	Unlicensed National Information Infrastructure (NII)
FCC Rule Part(s):	Part 15 Subpart E (Section 15.407)
Result:	Complies
Received Date:	2025-01-13
Test Date:	2025-01-21 ~ 2025-02-26

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 KDB789033. Test results reported herein relate only to the item(s) tested.

Revision History

Report No.	Version	Description	Issue Date	Note
2412RSU067-U3	V01	Initial Report	2025-03-21	Valid

Note: This product has got FCC approval (FCC ID: U4GDL36WF, Original Report No.: 2209RSU002-U4), now it has been replaced with 2.4/5G Wi-Fi FEM (pin-for-pin compatible) and reduce Wi-Fi conducted power via software, no other change. Based on the above changes, we did some spot-check tests for partial items.

CONTENTS

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.	DL36WF
EUT Identification No.	20250113Sample#05 (Conducted) 20250121Sample#19 (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
Operating Temp.	-20 ~ 50 ℃
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

Frequency Range	For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5710MHz, 5755~5795MHz For 802.11ac-VHT80: 5210MHz, 5290MHz, 5530MHz, 5610 MHz, 5690MHz, 5775MHz
Type of Modulation	802.11a/n/ac: OFDM
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 150Mbps 802.11ac: up to 433.3Mbps
Antenna Type	PIFA
Antenna Gain	5150 ~ 5250MHz: 1.70dBi 5250 ~ 5350MHz: 1.84dBi 5470 ~ 5725MHz: 2.75dBi 5725 ~ 5850MHz: 2.87dBi

1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz	100	5500 MHz
104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz
128	5640 MHz	132	5660 MHz	136	5680 MHz
140	5700 MHz	144	5720 MHz	149	5745 MHz
153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	--	--	--	--

802.11n-HT40/ac-VHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz
62	5310 MHz	102	5510 MHz	110	5550MHz
118	5590 MHz	126	5630 MHz	134	5670 MHz
142	5710 MHz	151	5755 MHz	159	5795 MHz

802.11ac-VHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz
122	5610 MHz	138	5690 MHz	155	5775 MHz

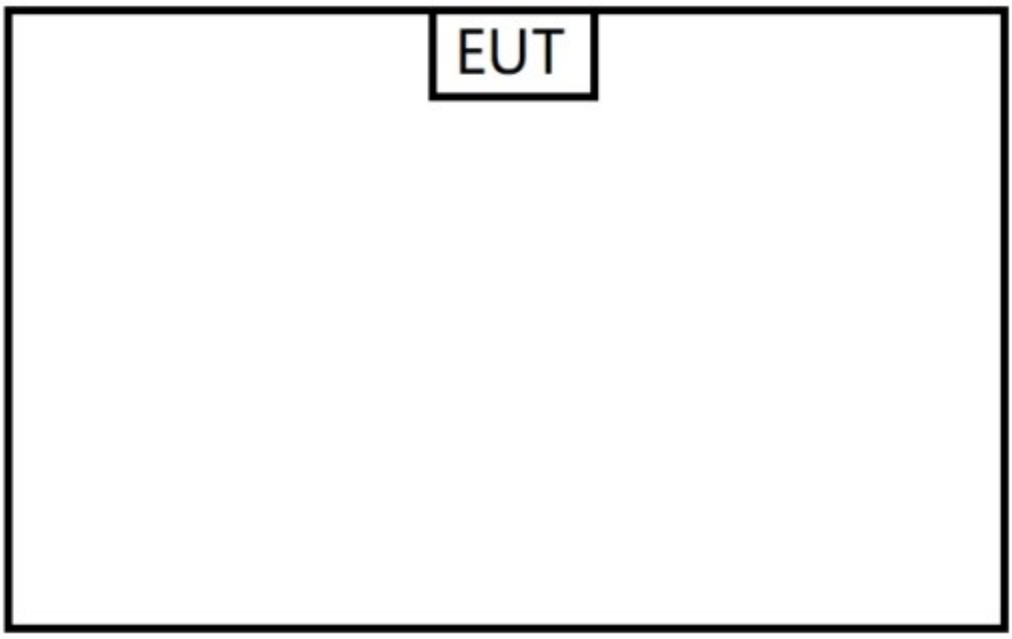
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11a (6Mbps)
Mode 2: Transmit by 802.11ac-VHT20 (MCS0)
Mode 3: Transmit by 802.11ac-VHT40 (MCS0)
Mode 4: Transmit by 802.11ac-VHT80 (MCS0)
Note: 802.11n and 802.11ac have same modulation type and same power value, so we only show 802.11ac test data in report.

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.

Connection Diagram


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 15.407
- KDB 789033 D02v02r01
- KDB 662911 D01v02r01
- ANSI C63.10-2013

2.5. Test Environment Condition

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

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

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

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2025-11-19	WJ-AC1
TRILOG Broad Band Antenna	Schwarzbeck	VULB 9163	MRTSUE07099	1 year	2025-04-24	WJ-AC1
EMI Test Receiver	R&S	ESR3	MRTSUE07110	1 year	2025-04-24	WJ-AC1
Anechoic Chamber	TDK	WJ-AC1	MRTSUE07115	1 year	2025-05-17	WJ-AC1
EXA Signal Analyzer	Keysight	N9010B	MRTSUE07147	1 year	2025-04-28	WJ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11333	1 year	2025-06-24	WJ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11402	1 year	2025-12-01	WJ-AC1
Broadband Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE07100	1 year	2025-04-24	WJ-AC2
Preamplifier	EMCI	EMC118A45SE	MRTSUE07102	1 year	2025-04-11	WJ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE07103	1 year	2025-04-14	WJ-AC2
Horn Antenna	EMCI	DRH18-E	MRTSUE07105	1 year	2025-05-12	WJ-AC2
Anechoic Chamber	TDK	WJ-AC2	MRTSUE07117	1 year	2025-05-14	WJ-AC2
EXA Signal Analyzer	Keysight	N9010B	MRTSUE07148	1 year	2025-05-11	WJ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11315	1 year	2025-06-24	WJ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11332	1 year	2025-06-24	WJ-AC2
USB Power Sensor	Keysight	U2021XA	MRTSUE07143	1 year	2025-03-22	WJ-SR3
Signal Analyzer	Keysight	N9020B	MRTSUE07037	1 year	2025-09-03	WJ-SR3

Software	Version	Function
e3	230711	EMI Test Software
CONTROLLER CO3000	v 1.03.02	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.

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

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)(1)(ii), (2), (3)(i)	Maximum Conducted Output Power	Conducted	Pass
15.407(b)(1), (2), (3), (4)(i)	Undesirable Emissions	Radiated	Pass
15.205, 15.209 15.407(b)(8), (9), (10)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)		Pass

Remark:

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.

6.2. Output Power Measurement

6.2.1. Test Limit

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

6.2.2. Test Procedure

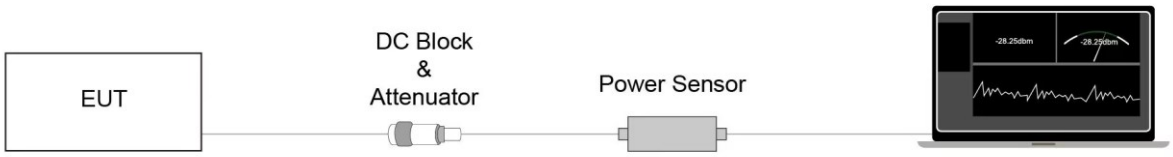
KDB 789033D02v02r01- Section II)E)3)b) Method PM-G

6.2.3. Test Setting

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.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.1.

6.3. Radiated Spurious Emission Measurement

6.3.1. Test Limit

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

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.3.2. Test Procedure

KDB 789033 D02v02r01- Section II)G)

6.3.3. Test Setting

Table 1 - RBW as a function of frequency

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

Quasi-Peak Measurements below 1GHz

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

Peak Measurements above 1GHz

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

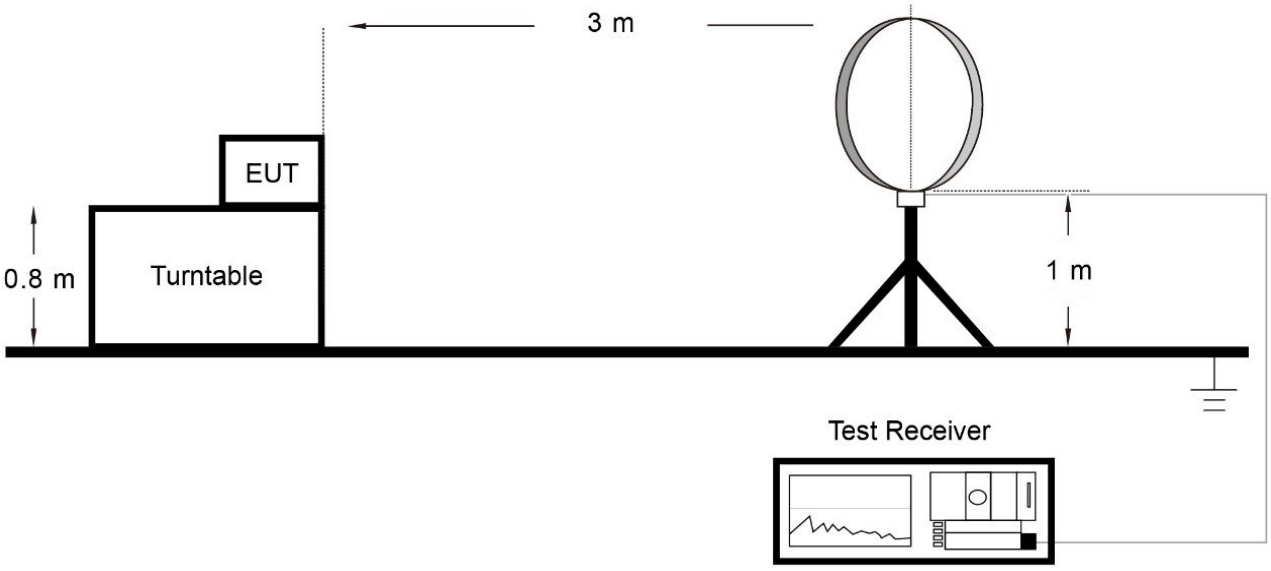
Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10Hz

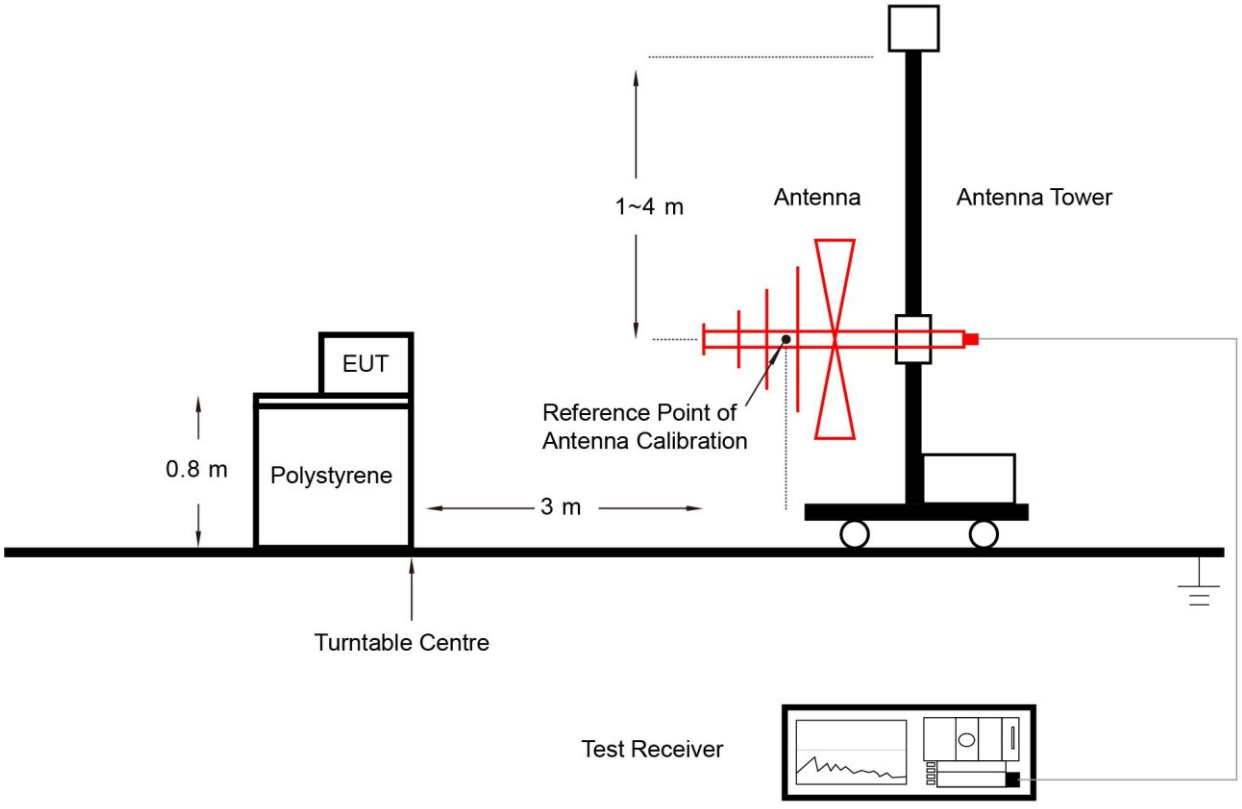
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display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

6.3.4. Test Setup

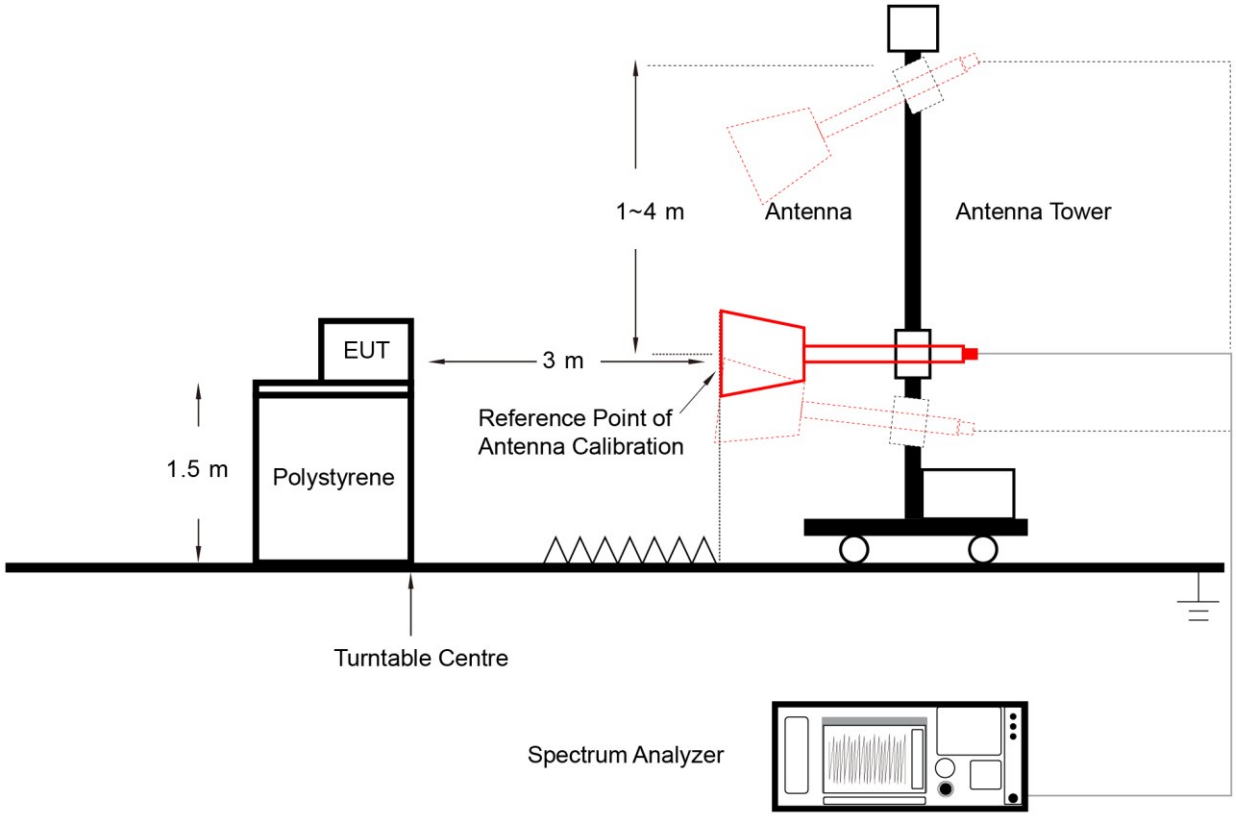
Below 30MHz Test Setup:



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	--	--	--

For 15.407(b) requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

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

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.4.2. Test Procedure

KDB 789033 D02v02r01- Section II)G)

6.4.3. Test Setting

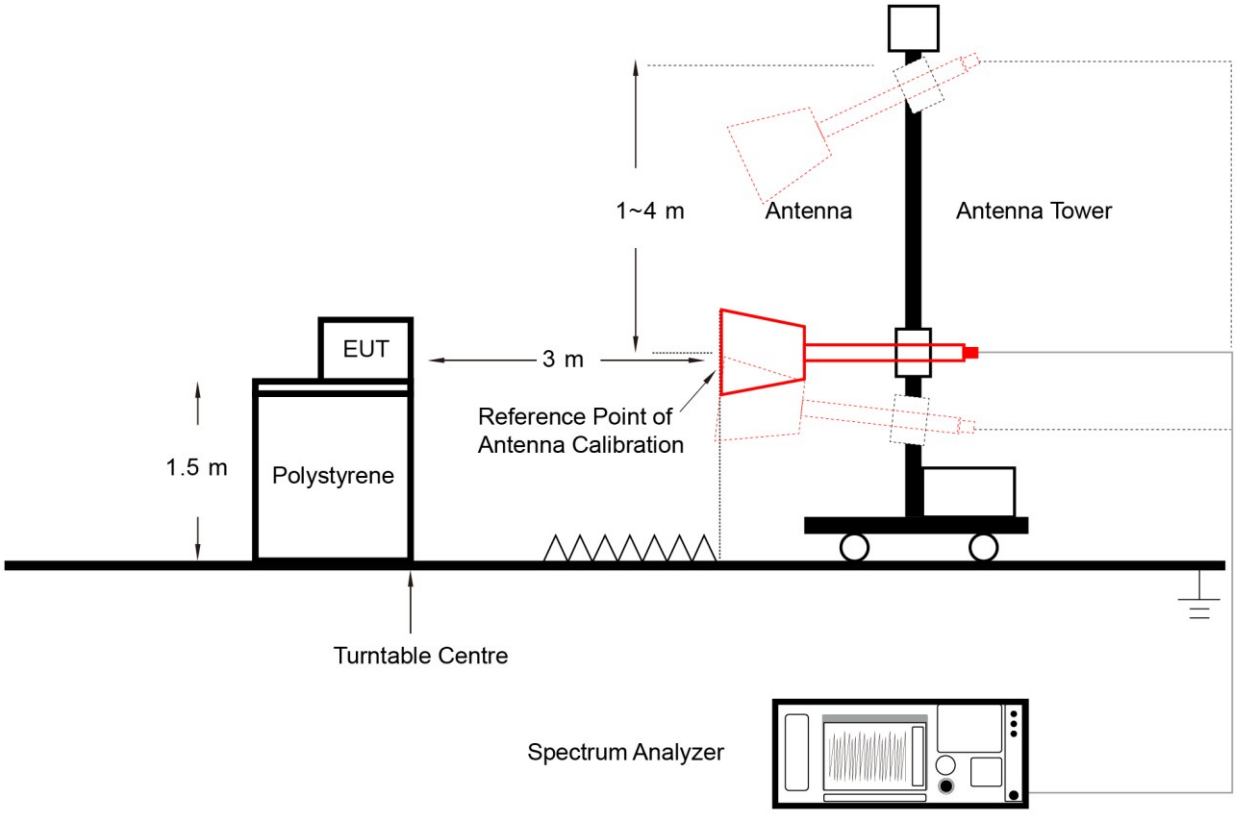
Peak Field Strength Measurements

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

Average Field Strength Measurements

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

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	2025-02-23~2025-02-26		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Power Limit (dBm)
11a	6Mbps	36	5180	17.57	≤ 23.98
11a	6Mbps	44	5220	17.51	≤ 23.98
11a	6Mbps	48	5240	17.41	≤ 23.98
11a	6Mbps	52	5260	19.16	≤ 23.98
11a	6Mbps	60	5300	18.65	≤ 23.98
11a	6Mbps	64	5320	18.64	≤ 23.98
11a	6Mbps	100	5500	19.32	≤ 23.98
11a	6Mbps	116	5580	19.12	≤ 23.98
11a	6Mbps	140	5700	18.91	≤ 23.98
11a	6Mbps	144	5720	18.73	≤ 22.97
11a	6Mbps	149	5745	18.95	≤ 30.00
11a	6Mbps	157	5785	18.96	≤ 30.00
11a	6Mbps	165	5825	19.31	≤ 30.00
11ac-VHT20	MCS0	36	5180	16.76	≤ 23.98
11ac-VHT20	MCS0	44	5220	17.24	≤ 23.98
11ac-VHT20	MCS0	48	5240	16.79	≤ 23.98
11ac-VHT20	MCS0	52	5260	18.78	≤ 23.98
11ac-VHT20	MCS0	60	5300	18.54	≤ 23.98
11ac-VHT20	MCS0	64	5320	18.34	≤ 23.98
11ac-VHT20	MCS0	100	5500	18.67	≤ 23.98
11ac-VHT20	MCS0	116	5580	18.87	≤ 23.98
11ac-VHT20	MCS0	140	5700	18.67	≤ 23.98
11ac-VHT20	MCS0	144	5720	18.53	≤ 22.99
11ac-VHT20	MCS0	149	5745	18.67	≤ 30.00
11ac-VHT20	MCS0	157	5785	18.74	≤ 30.00
11ac-VHT20	MCS0	165	5825	18.30	≤ 30.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Power Limit (dBm)
11ac-VHT40	MCS0	38	5190	15.70	≤ 23.98
11ac-VHT40	MCS0	46	5230	16.13	≤ 23.98
11ac-VHT40	MCS0	54	5270	17.87	≤ 23.98
11ac-VHT40	MCS0	62	5310	17.11	≤ 23.98
11ac-VHT40	MCS0	102	5510	17.34	≤ 23.98
11ac-VHT40	MCS0	110	5550	16.26	≤ 23.98
11ac-VHT40	MCS0	134	5670	17.03	≤ 23.98
11ac-VHT40	MCS0	142	5710	17.44	≤ 23.98
11ac-VHT40	MCS0	151	5755	17.42	≤ 30.00
11ac-VHT40	MCS0	159	5795	17.48	≤ 30.00
11ac-VHT80	MCS0	42	5210	12.67	≤ 23.98
11ac-VHT80	MCS0	58	5290	14.75	≤ 23.98
11ac-VHT80	MCS0	106	5530	14.23	≤ 23.98
11ac-VHT80	MCS0	122	5610	14.79	≤ 23.98
11ac-VHT80	MCS0	138	5690	13.89	≤ 23.98
11ac-VHT80	MCS0	155	5775	14.47	≤ 30.00

Note: For Band-Crossing channel, Average Power Limit = 23.98dBm or $11+10*\log_{10}EBW_{2C}$ which is less.

A.2 Radiated Spurious Emission Test Result

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-01-26	Test Mode	802.11ac-VHT20 – Channel 149
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10139.2	39.6	5.8	45.4	68.2	-22.8	Peak	Horizontal
	11511.1	43.0	5.3	48.3	74.0	-25.7	Peak	Horizontal
	12230.2	42.2	4.8	47.0	74.0	-27.0	Peak	Horizontal
*	14086.6	43.8	5.5	49.3	68.2	-18.9	Peak	Horizontal
	11278.2	42.4	5.3	47.7	74.0	-26.3	Peak	Vertical
	12503.9	44.7	5.0	49.7	74.0	-24.3	Peak	Vertical
*	14103.6	45.7	5.4	51.1	68.2	-17.1	Peak	Vertical
*	14795.5	46.1	5.6	51.7	68.2	-16.5	Peak	Vertical

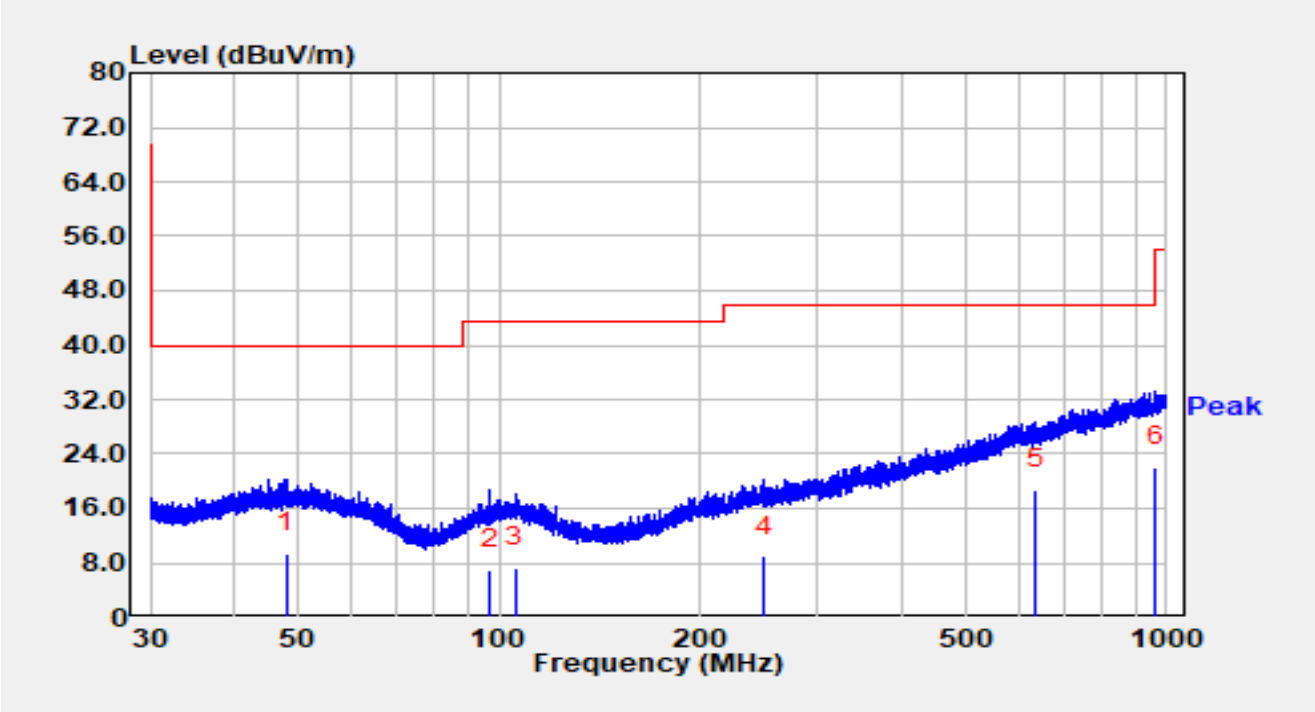
Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: 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	WJ-AC1	Test Date	2025-02-10
Temperature	13.8 °C	Humidity	25.1 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Carl Jiang
Factor	VULB 9163_07099	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5745MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		47.876	-10.20	19.68	9.48	-30.52	40.00	QP
2		96.775	-10.20	17.25	7.05	-36.45	43.50	QP
3		105.531	-10.70	17.95	7.25	-36.25	43.50	QP
4		250.038	-10.50	19.44	8.94	-37.06	46.00	QP
5	*	636.580	-8.60	27.46	18.86	-27.14	46.00	QP
6		963.175	-9.10	31.18	22.08	-31.92	54.00	QP

Notes:

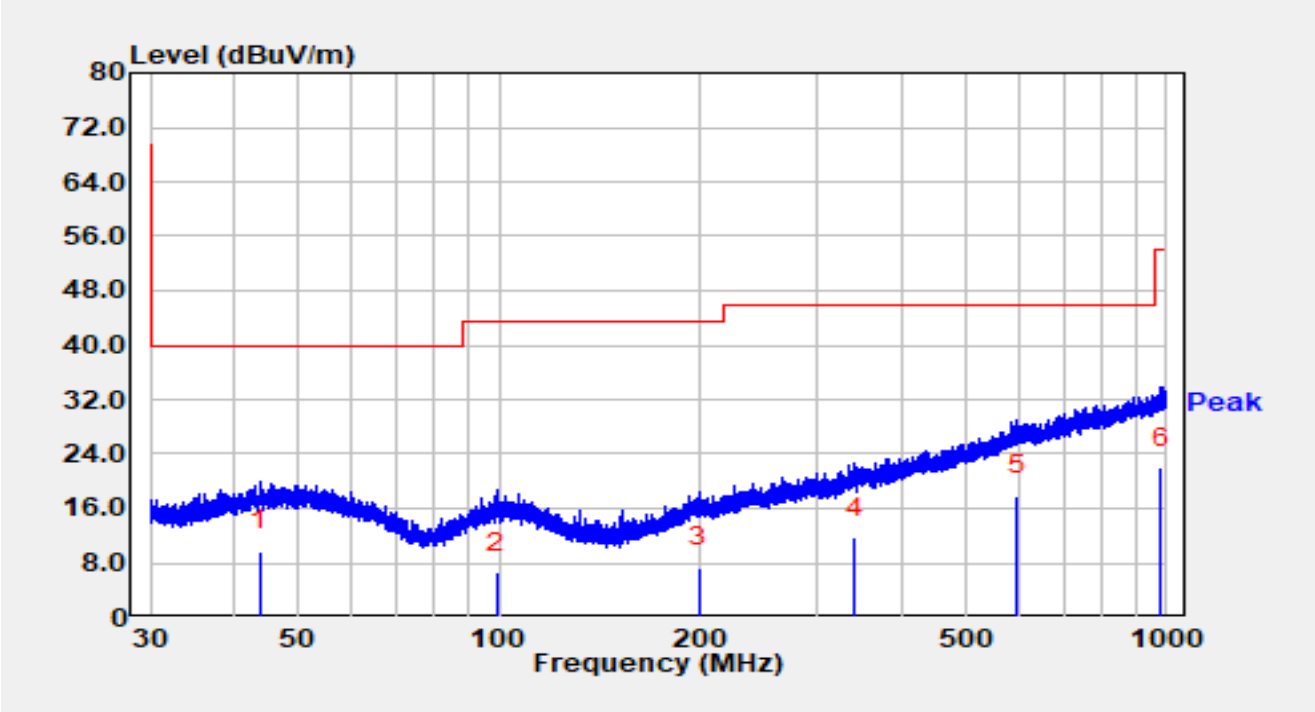
1. " * ", means this data is the worst emission level.

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

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

4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) 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	WJ-AC1	Test Date	2025-02-10
Temperature	13.8 °C	Humidity	25.1 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Carl Jiang
Factor	VULB 9163_07099	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5745MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		43.827	-9.80	19.49	9.69	-30.31	40.00	QP
2		99.075	-11.00	17.58	6.58	-36.92	43.50	QP
3		199.635	-10.60	17.95	7.35	-36.15	43.50	QP
4		341.140	-10.40	22.06	11.66	-34.34	46.00	QP
5	*	598.062	-9.30	27.14	17.84	-28.16	46.00	QP
6		982.276	-9.40	31.39	21.99	-32.01	54.00	QP

Notes:

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

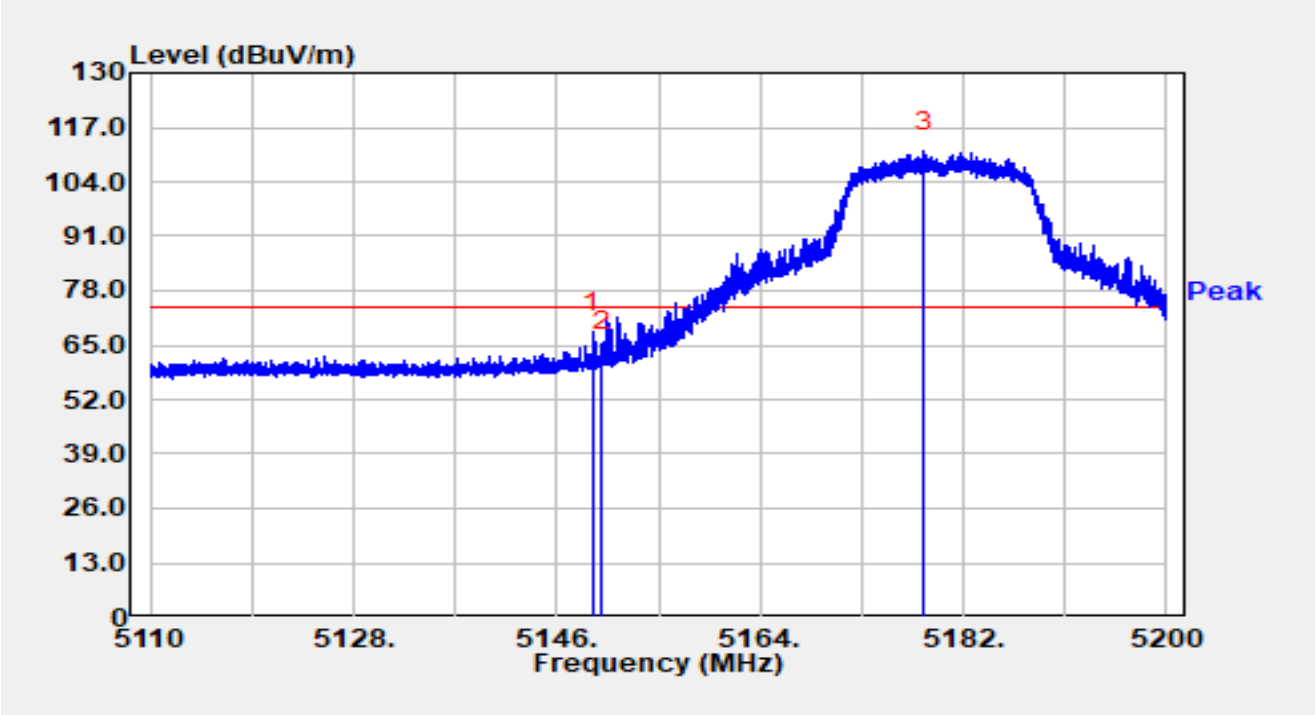
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).

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

4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) 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	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5180MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5149.204	51.95	16.00	67.95	-6.05	74.00	Peak
2		5150.000	47.68	16.00	63.67	-10.33	74.00	Peak
3		5178.490	95.21	15.94	111.15	N/A	N/A	Peak

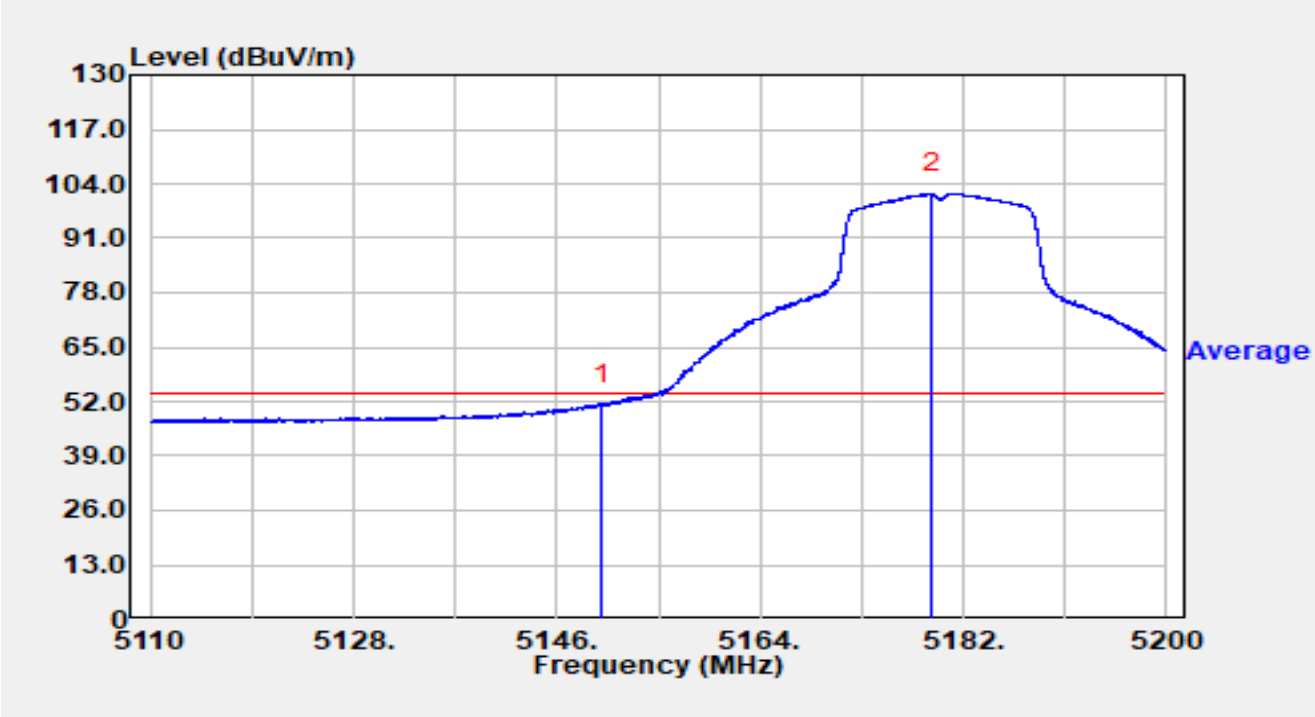
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5180MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5150.000	35.31	16.00	51.31	-2.69	54.00	Average
2		5179.237	85.77	15.94	101.70	N/A	N/A	Average

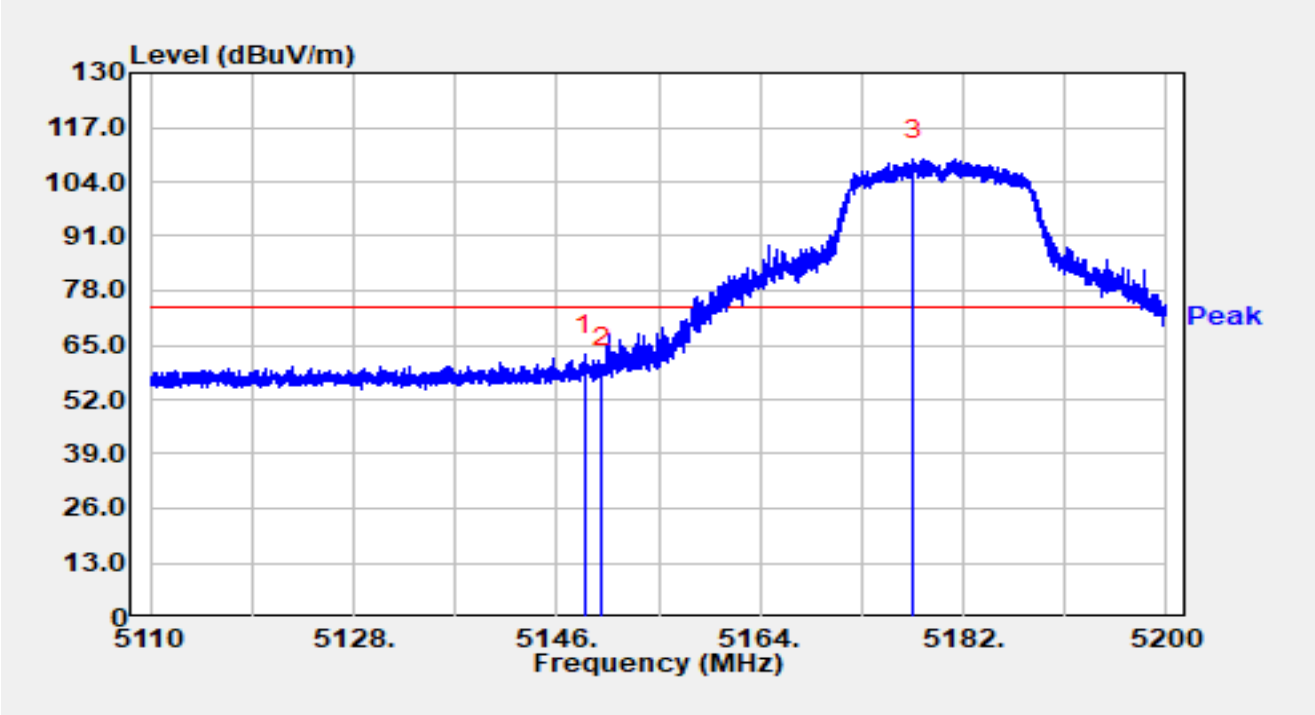
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5180MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5148.484	46.58	16.00	62.58	-11.42	74.00	Peak
2		5150.000	43.73	16.00	59.73	-14.27	74.00	Peak
3		5177.608	93.37	15.94	109.31	N/A	N/A	Peak

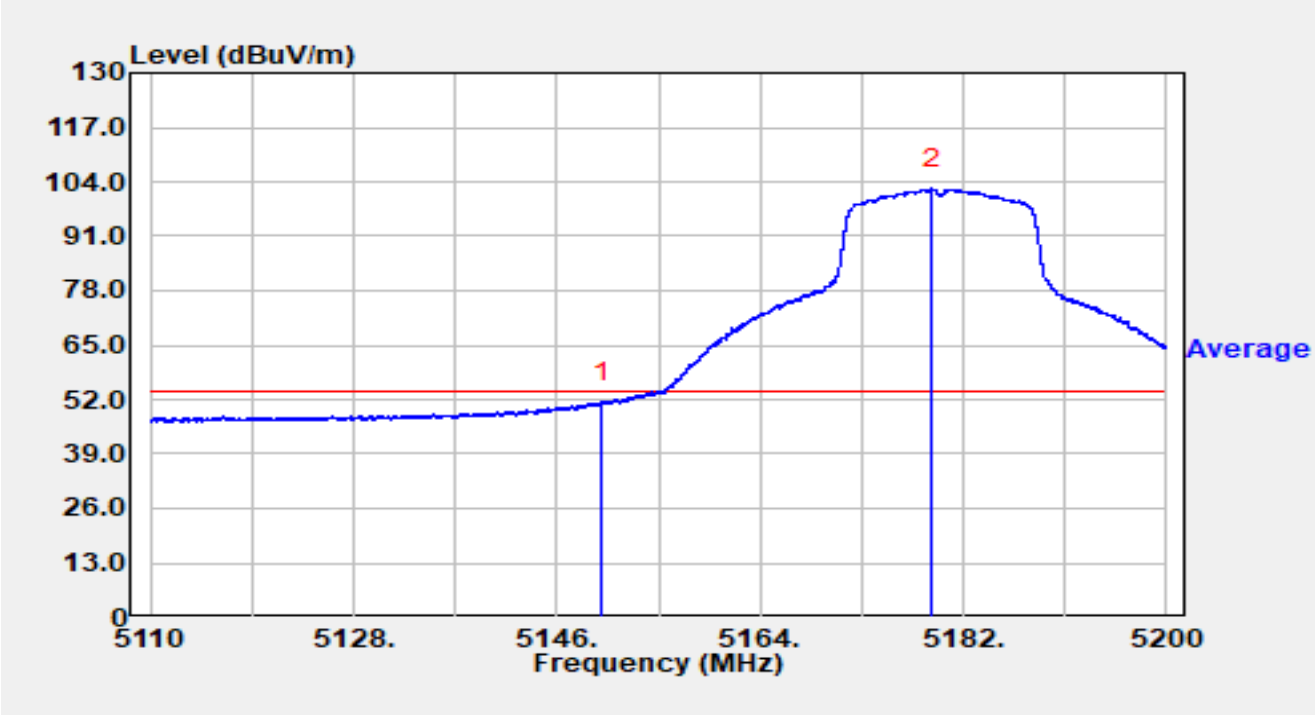
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5180MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5150.000	35.29	16.00	51.28	-2.72	54.00	Average
2		5179.192	86.47	15.94	102.40	N/A	N/A	Average

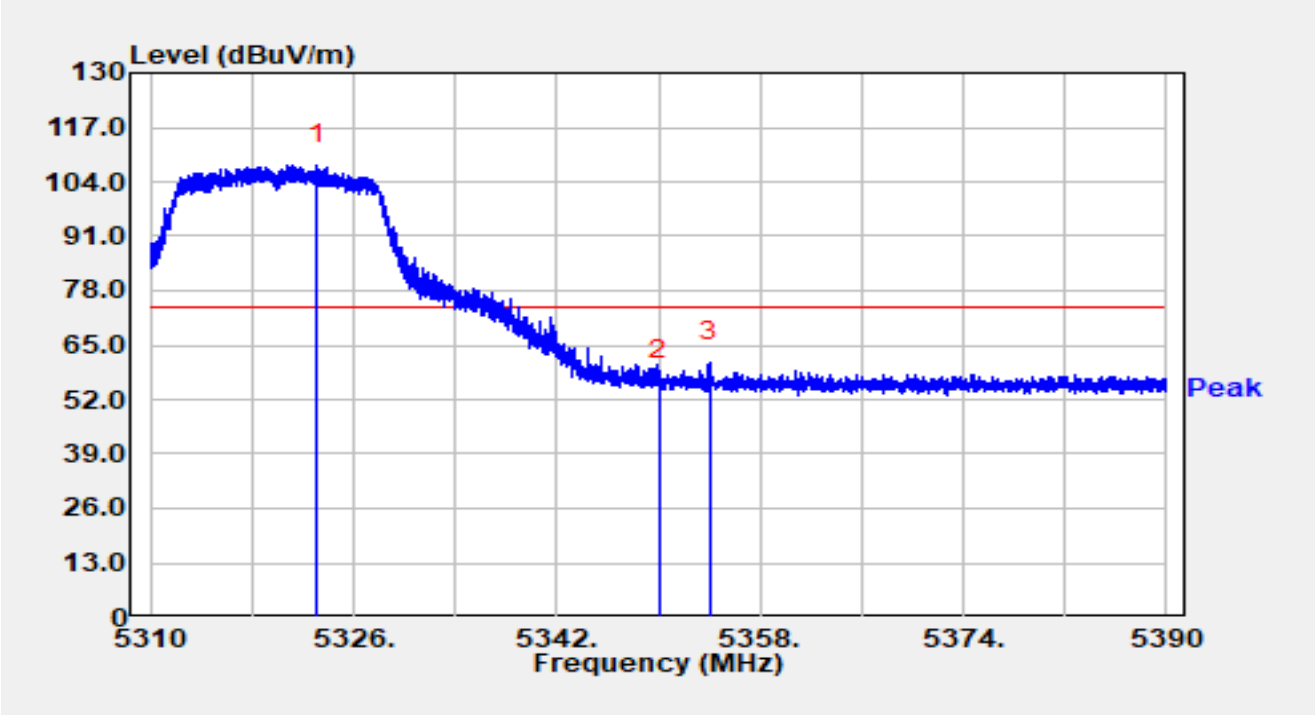
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5320MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5323.120	92.32	15.80	108.12	N/A	N/A	Peak
2		5350.000	40.78	15.68	56.46	-17.54	74.00	Peak
3	*	5353.992	45.28	15.67	60.95	-13.05	74.00	Peak

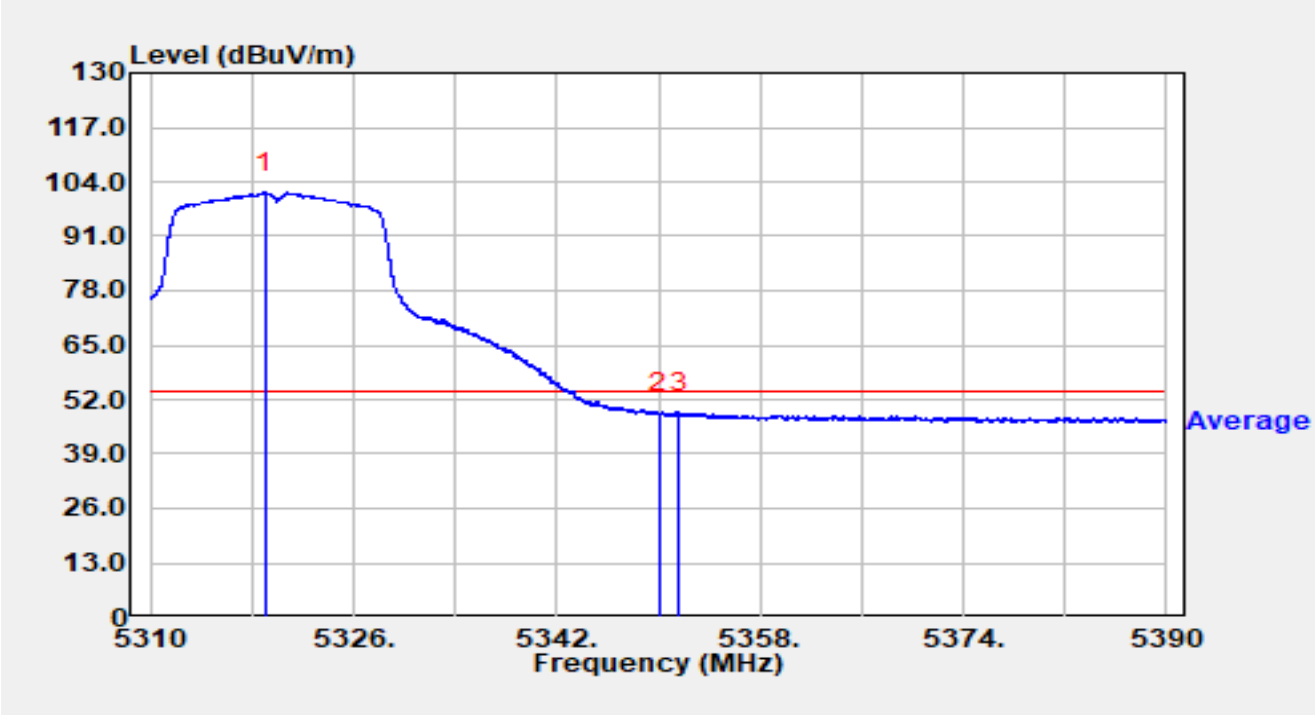
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5320MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5319.008	85.60	15.79	101.40	N/A	N/A	Average
2		5350.000	32.89	15.68	48.57	-5.43	54.00	Average
3	*	5351.584	33.24	15.68	48.91	-5.09	54.00	Average

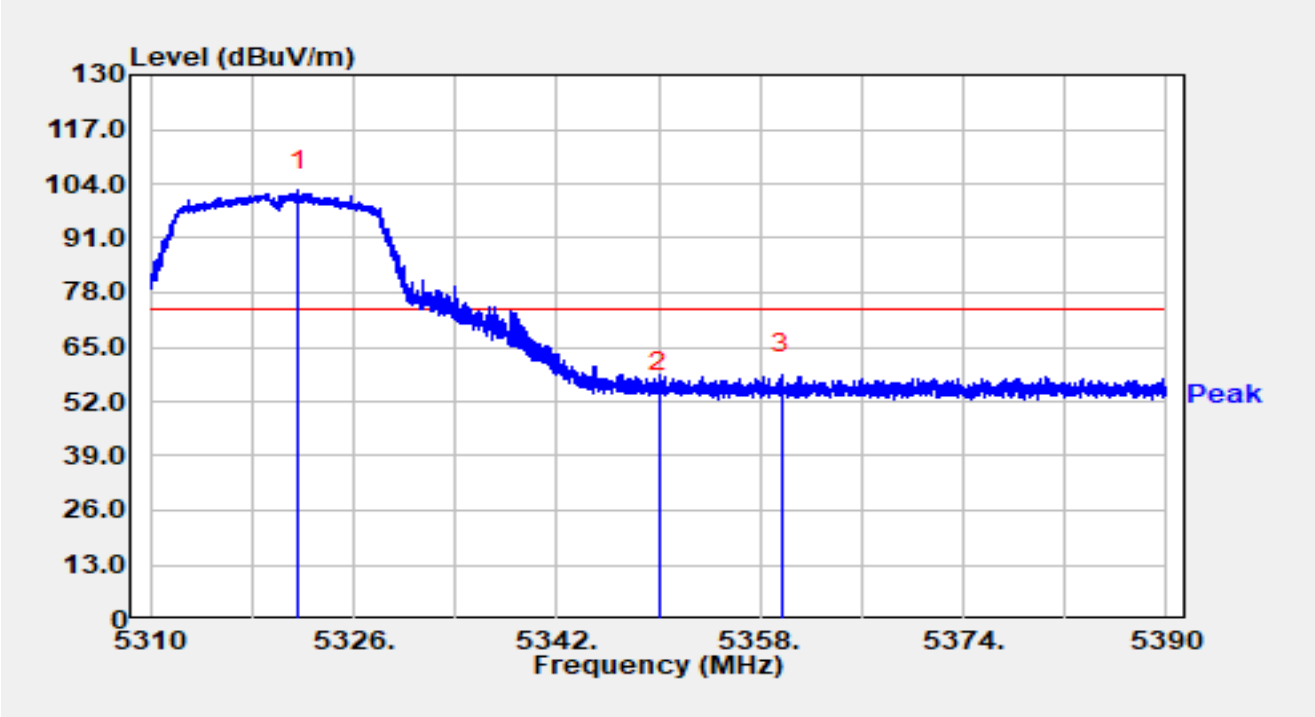
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5320MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5321.688	86.68	15.80	102.48	N/A	N/A	Peak
2		5350.000	38.55	15.68	54.23	-19.77	74.00	Peak
3	*	5359.720	42.81	15.65	58.46	-15.54	74.00	Peak

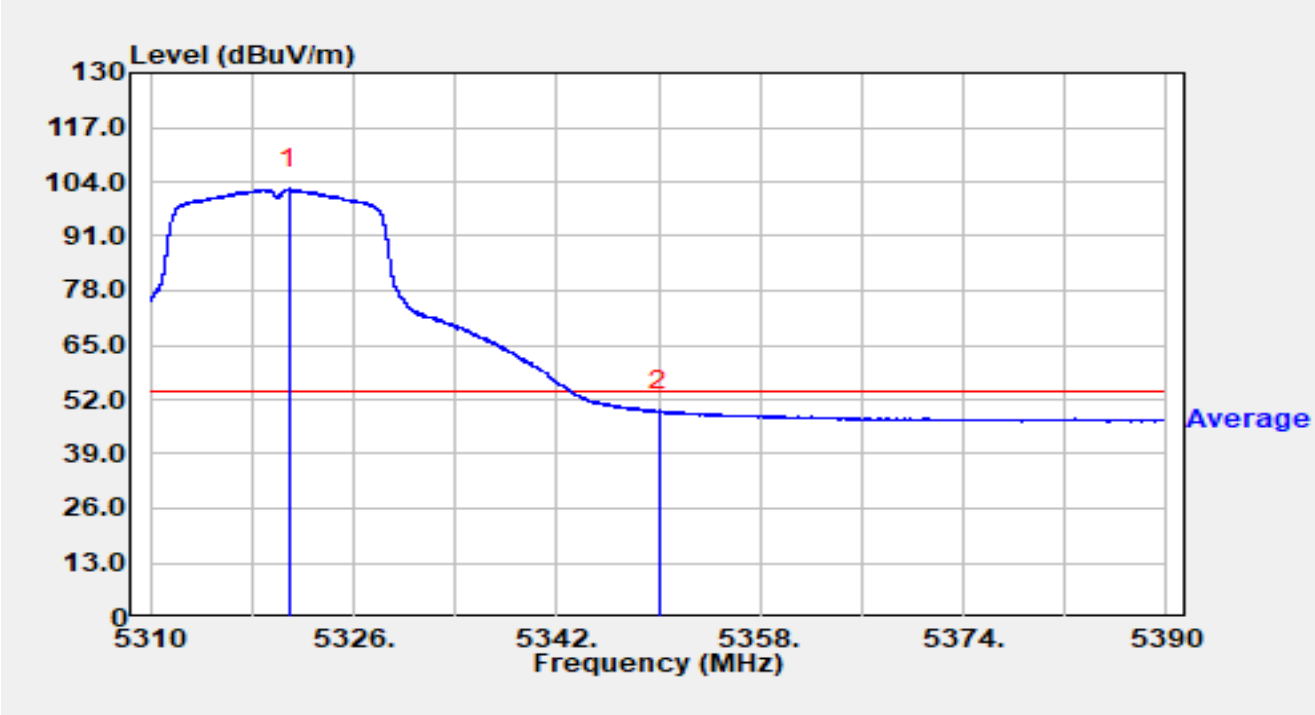
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5320MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5320.968	86.51	15.80	102.31	N/A	N/A	Average
2	*	5350.000	33.42	15.68	49.10	-4.90	54.00	Average

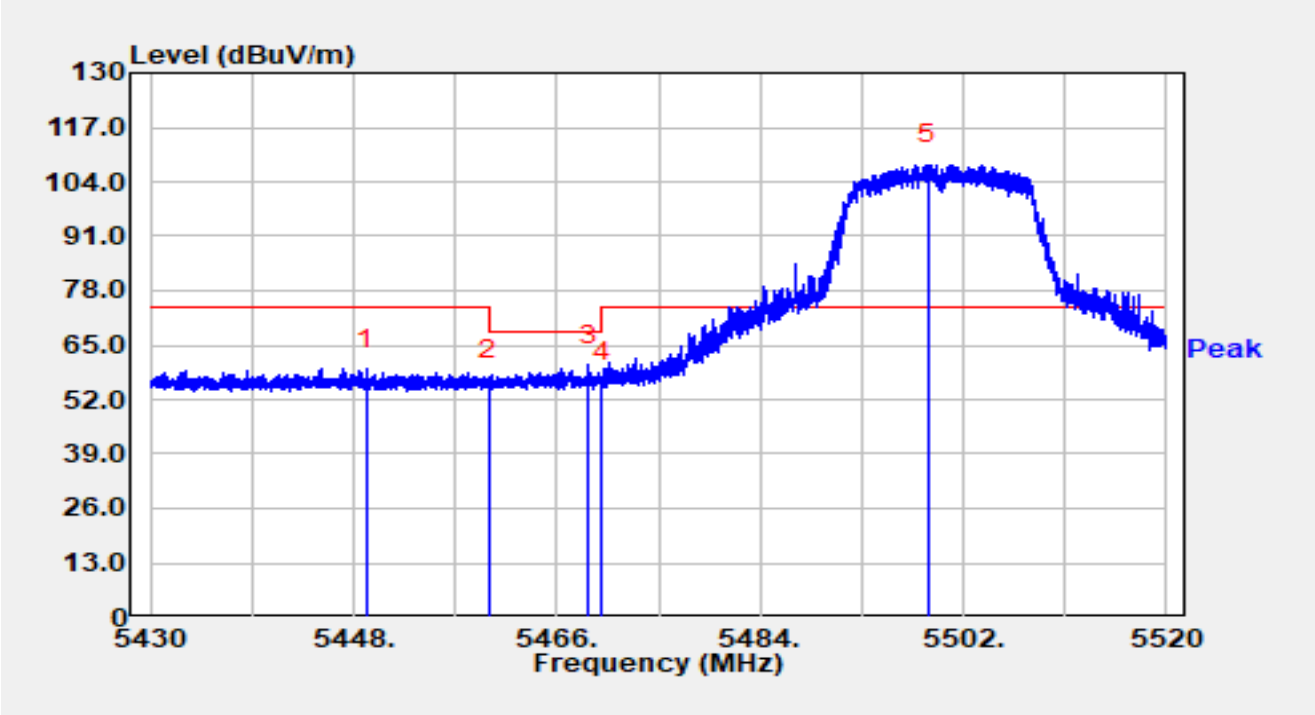
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5500MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5449.107	43.23	15.98	59.21	-14.79	74.00	Peak
2		5460.000	40.77	16.02	56.80	-11.40	68.20	Peak
3	*	5468.844	44.18	15.99	60.16	-8.04	68.20	Peak
4		5470.000	40.24	15.98	56.22	-11.98	68.20	Peak
5		5498.859	91.95	16.17	108.11	N/A	N/A	Peak

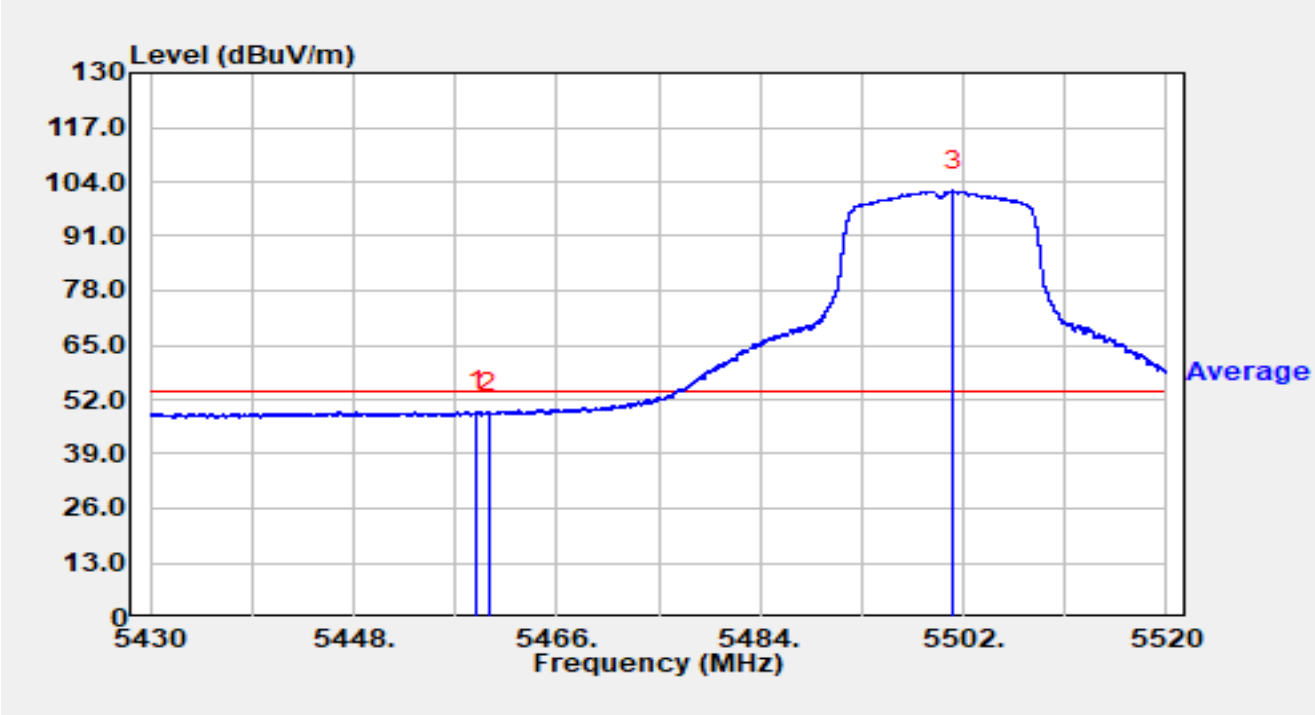
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5500MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5458.953	33.22	16.03	49.25	-4.75	54.00	Average
2		5460.000	32.80	16.02	48.82	-5.18	54.00	Average
3		5501.100	85.65	16.19	101.84	N/A	N/A	Average

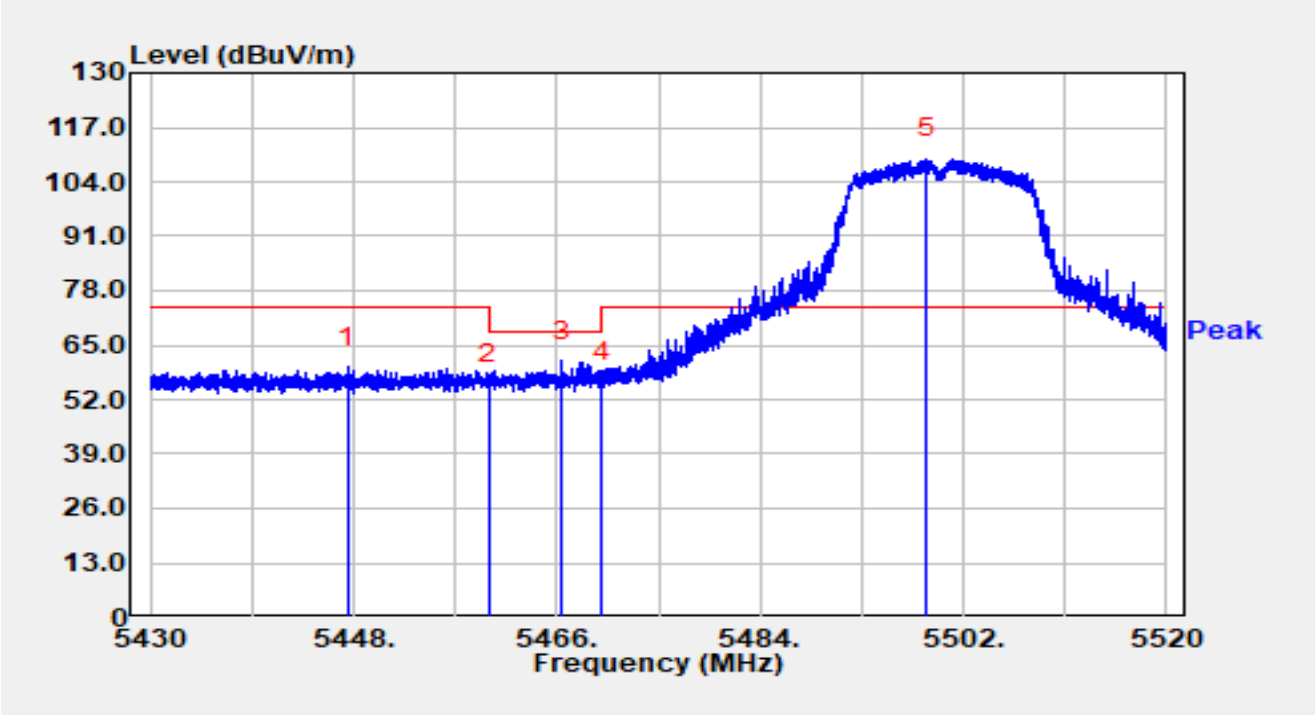
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5500MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5447.514	43.86	15.96	59.82	-14.18	74.00	Peak
2		5460.000	39.41	16.02	55.44	-12.76	68.20	Peak
3	*	5466.396	45.22	16.00	61.21	-6.99	68.20	Peak
4		5470.000	40.23	15.98	56.21	-11.99	68.20	Peak
5		5498.742	93.44	16.16	109.60	N/A	N/A	Peak

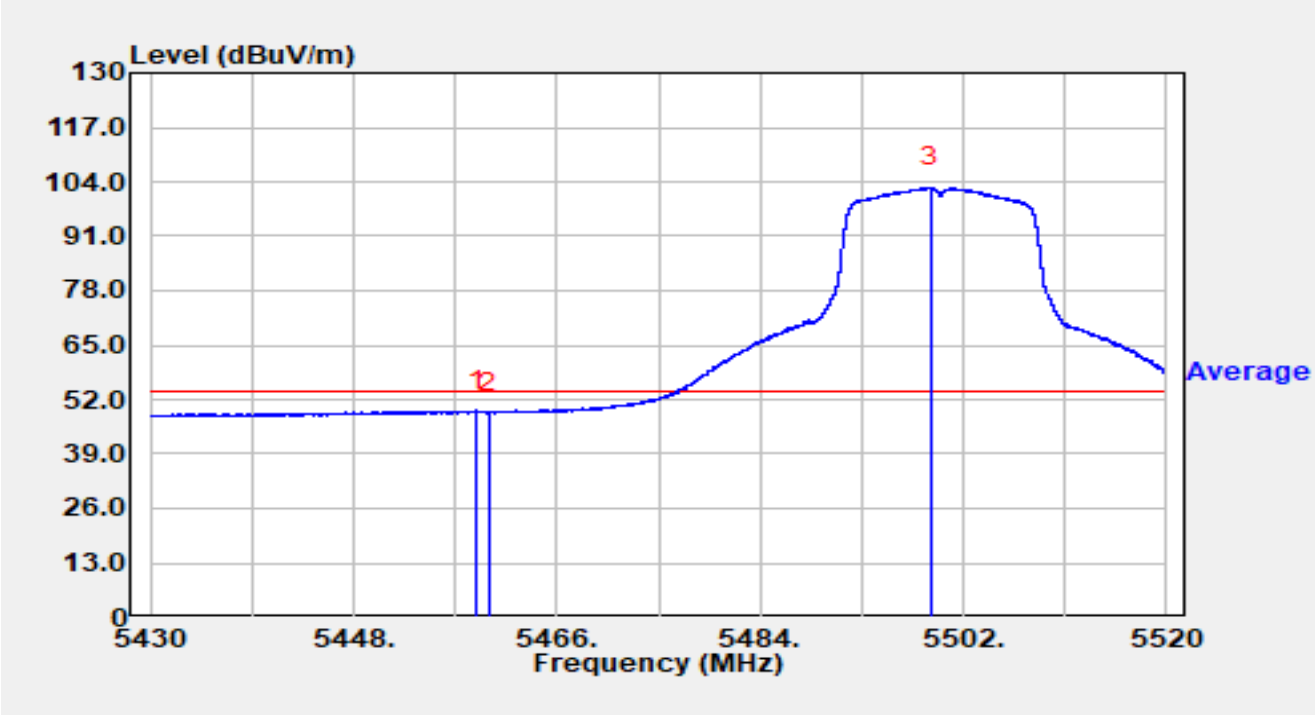
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5500MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5458.863	33.32	16.03	49.34	-4.66	54.00	Average
2		5460.000	32.82	16.02	48.85	-5.15	54.00	Average
3		5499.075	86.49	16.17	102.66	N/A	N/A	Average

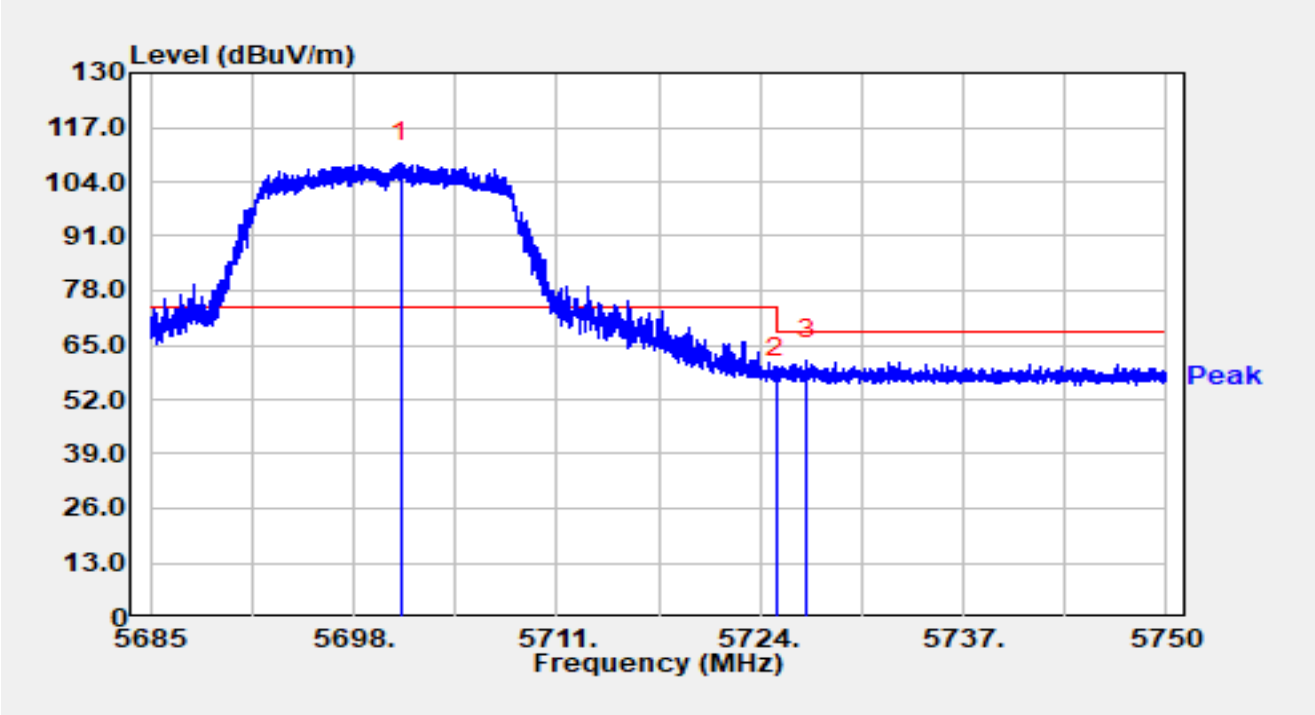
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5700MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		5701.003	91.70	16.82	108.52	N/A	N/A	Peak
2		5725.000	40.47	16.92	57.40	-10.80	68.20	Peak
3	*	5726.990	44.45	16.93	61.38	-6.82	68.20	Peak

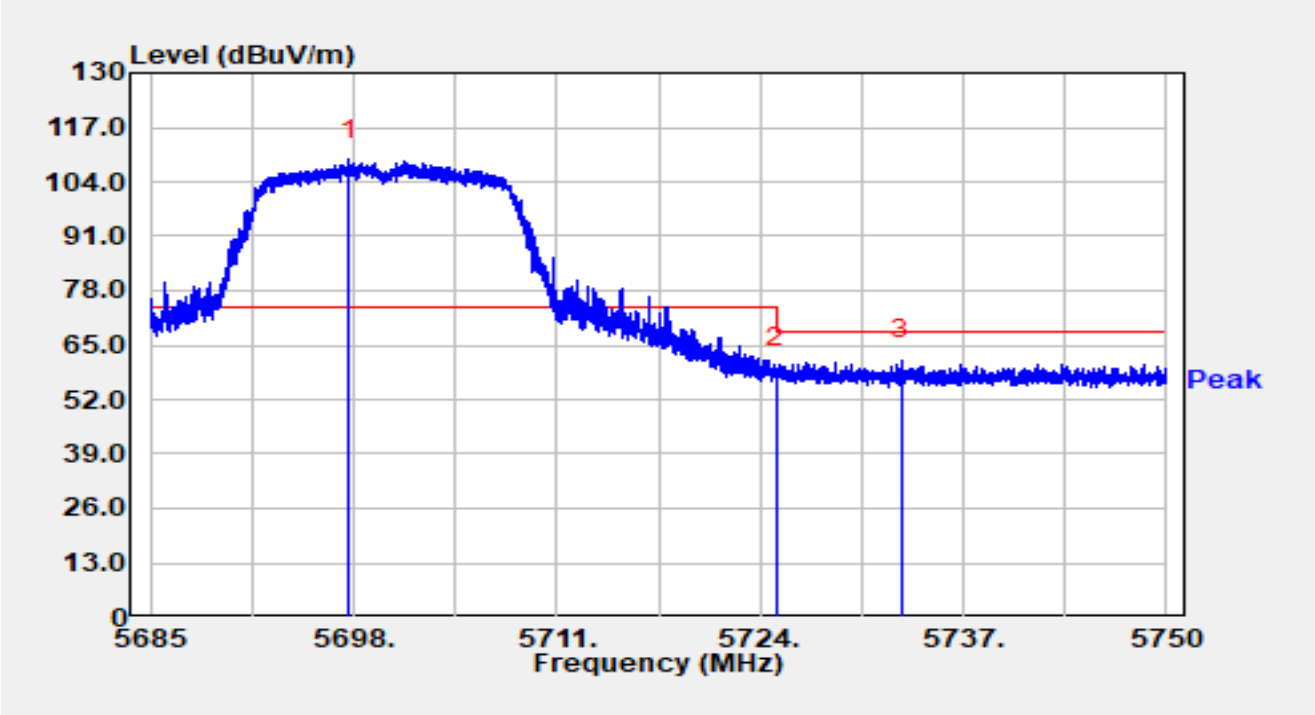
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5700MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		5697.721	92.51	16.80	109.31	N/A	N/A	Peak
2		5725.001	42.46	16.92	59.39	-8.81	68.20	Peak
3	*	5733.022	44.41	16.94	61.35	-6.85	68.20	Peak

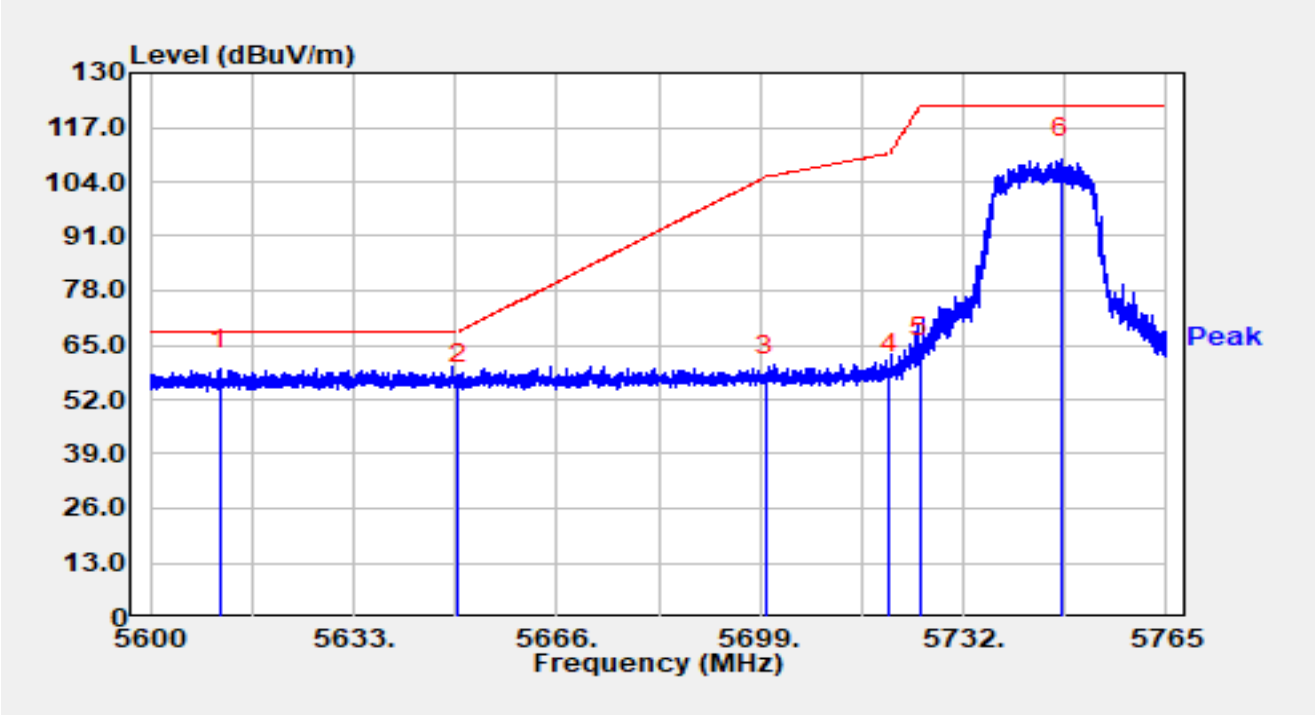
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5745MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5611.270	42.85	16.46	59.31	-8.89	68.20	Peak
2		5650.000	39.13	16.65	55.78	-12.42	68.20	Peak
3		5700.000	40.61	16.81	57.42	-47.78	105.20	Peak
4		5720.000	41.32	16.90	58.23	-52.57	110.80	Peak
5		5725.000	45.30	16.92	62.22	-59.98	122.20	Peak
6		5747.807	92.63	16.98	109.61	N/A	N/A	Peak

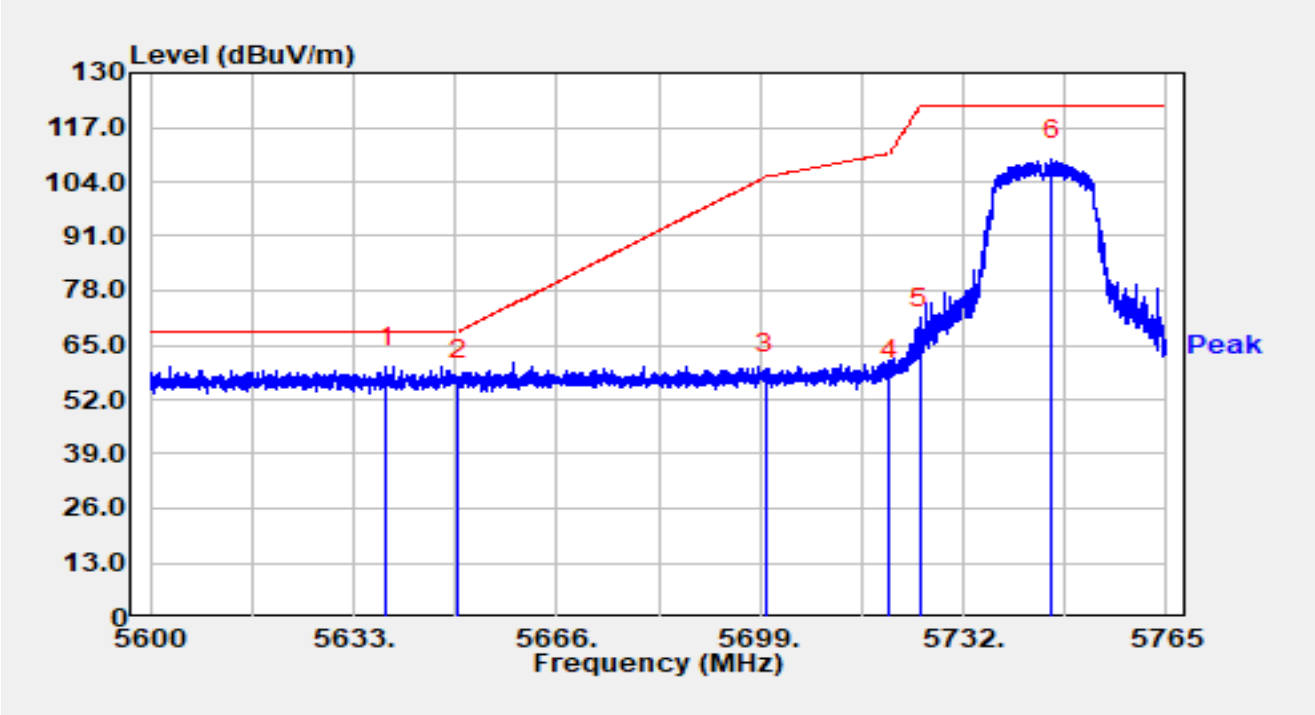
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5745MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5638.296	43.18	16.60	59.79	-8.41	68.20	Peak
2		5650.000	39.93	16.65	56.58	-11.62	68.20	Peak
3		5700.000	41.12	16.81	57.93	-47.27	105.20	Peak
4		5720.000	39.81	16.90	56.72	-54.08	110.80	Peak
5		5725.000	51.98	16.92	68.91	-53.29	122.20	Peak
6		5746.388	92.27	16.97	109.25	N/A	N/A	Peak

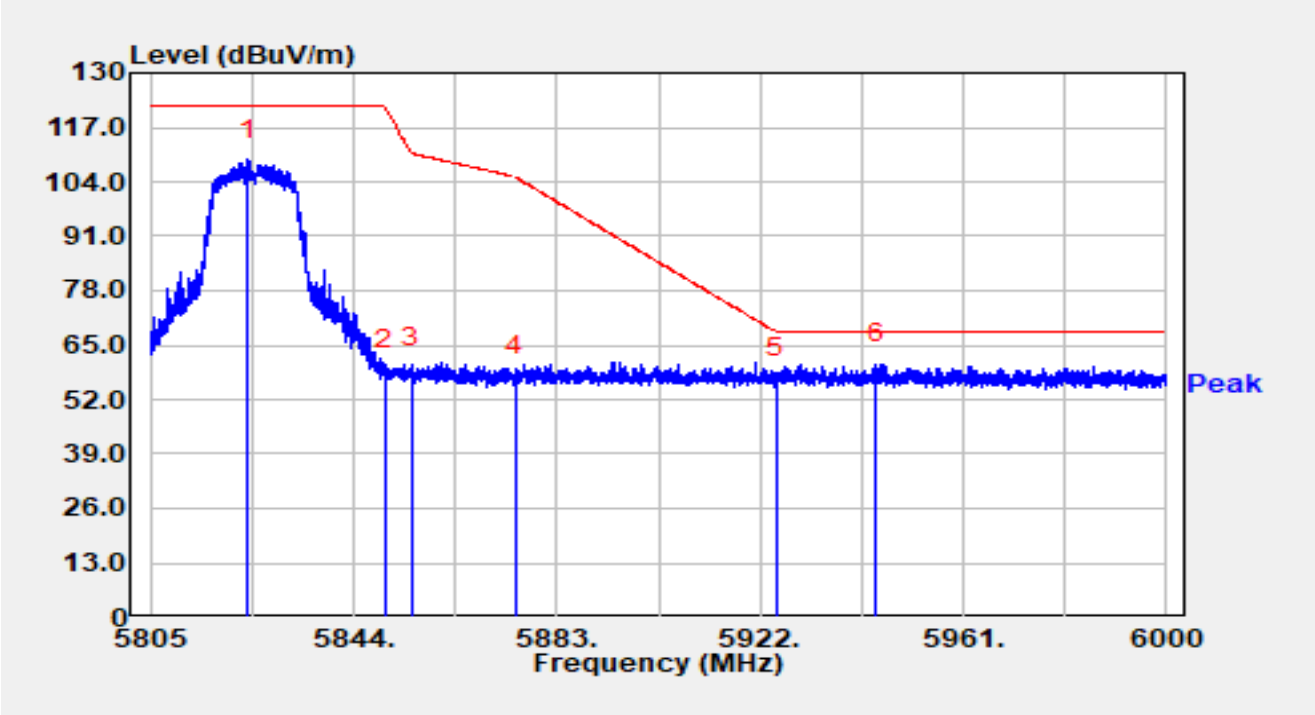
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5825MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5823.798	91.78	17.37	109.16	N/A	N/A	Peak
2		5850.000	41.78	17.31	59.10	-63.10	122.20	Peak
3		5855.000	42.39	17.32	59.72	-51.08	110.80	Peak
4		5875.000	40.07	17.38	57.45	-47.75	105.20	Peak
5		5925.000	39.61	17.36	56.98	-11.22	68.20	Peak
6	*	5944.347	43.03	17.43	60.46	-7.74	68.20	Peak

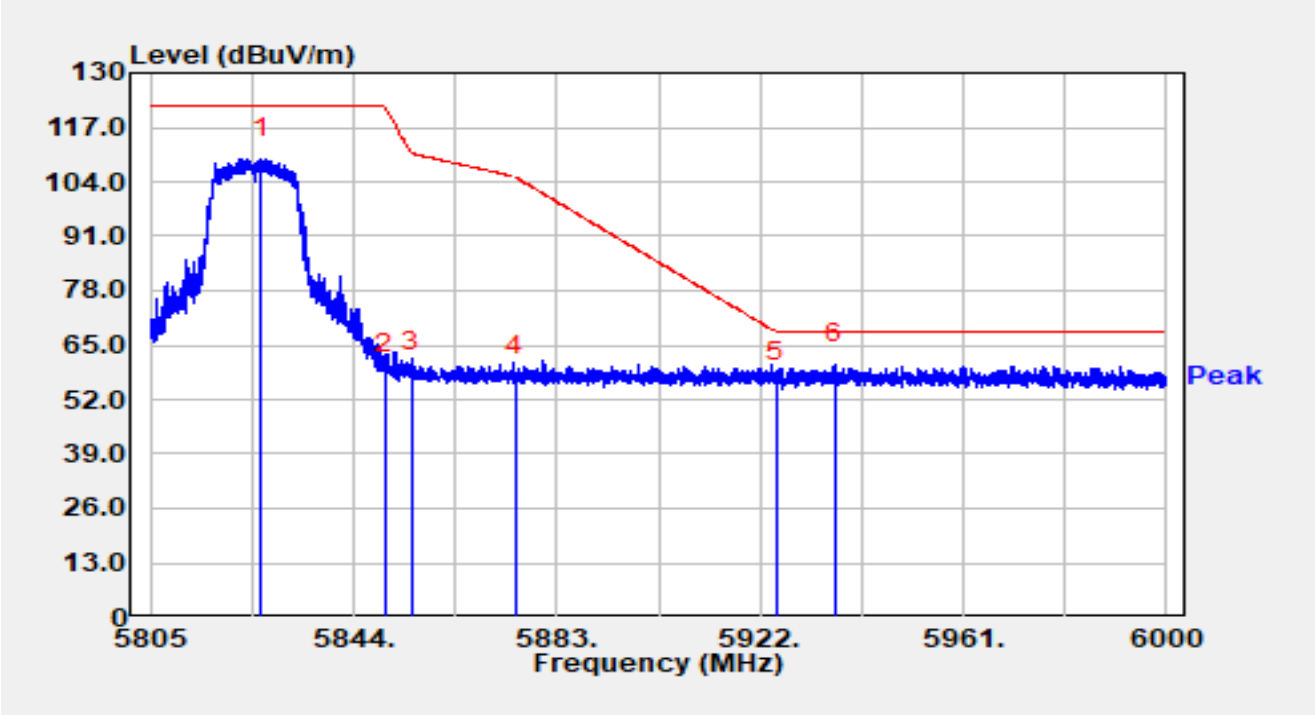
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11a at 5825MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5826.158	92.26	17.37	109.63	N/A	N/A	Peak
2		5850.006	40.92	17.31	58.23	-63.96	122.19	Peak
3		5855.000	41.40	17.32	58.72	-52.08	110.80	Peak
4		5875.000	40.38	17.38	57.76	-47.44	105.20	Peak
5		5925.000	38.98	17.36	56.35	-11.85	68.20	Peak
6	*	5936.235	43.06	17.41	60.47	-7.73	68.20	Peak

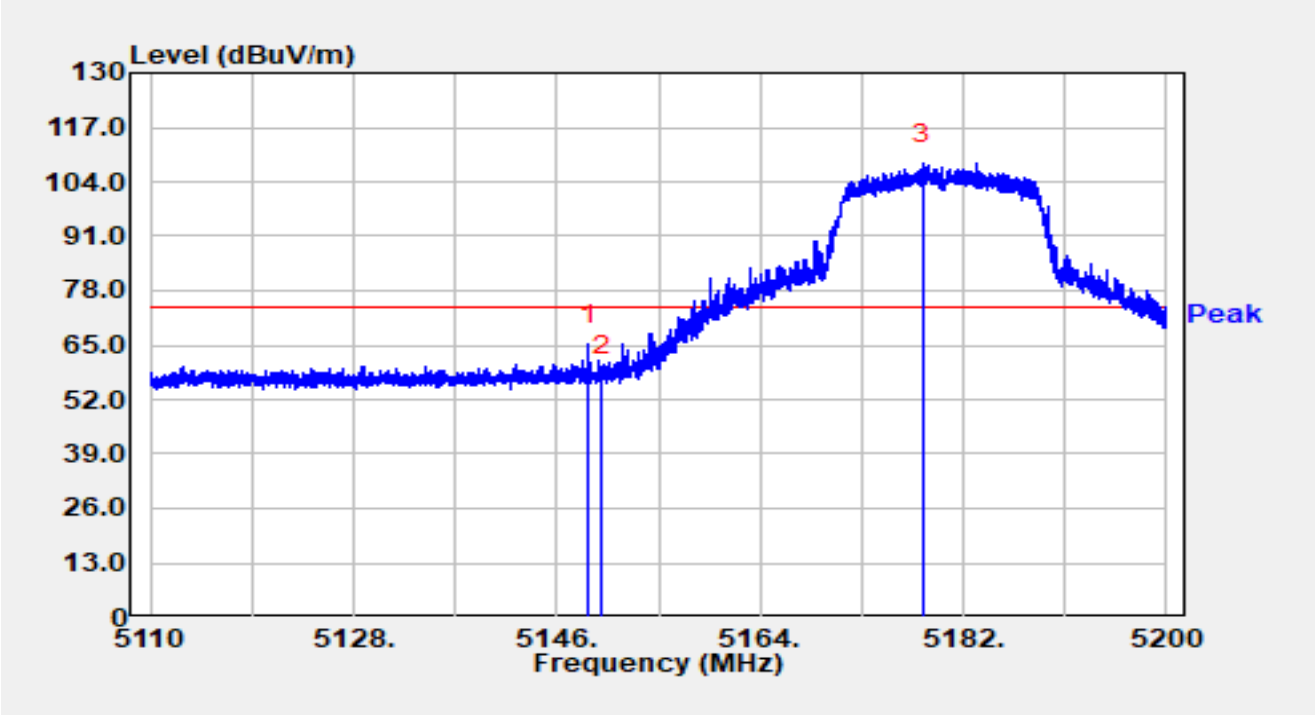
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5180MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5148.790	49.14	16.00	65.14	-8.86	74.00	Peak
2		5150.000	41.66	16.00	57.65	-16.35	74.00	Peak
3		5178.445	92.41	15.94	108.35	N/A	N/A	Peak

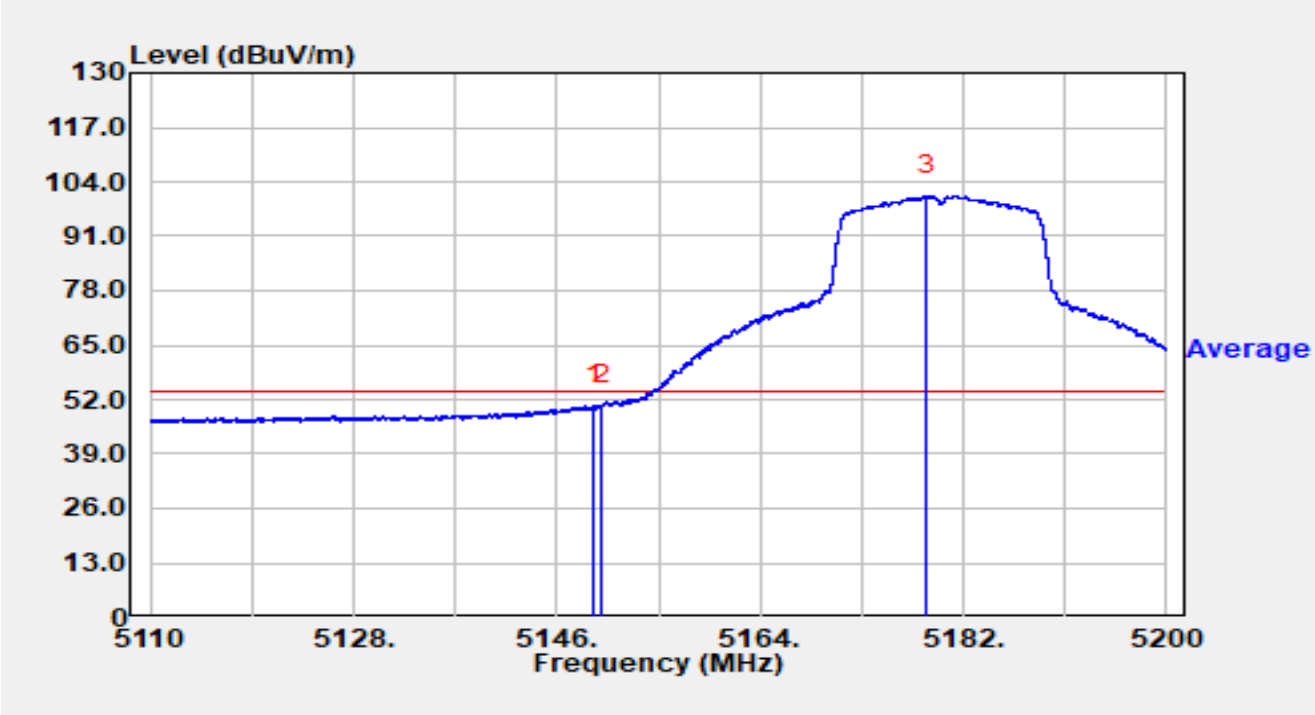
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5180MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5149.339	34.65	16.00	50.65	-3.35	54.00	Average
2		5150.000	34.62	16.00	50.61	-3.39	54.00	Average
3		5178.760	84.65	15.94	100.59	N/A	N/A	Average

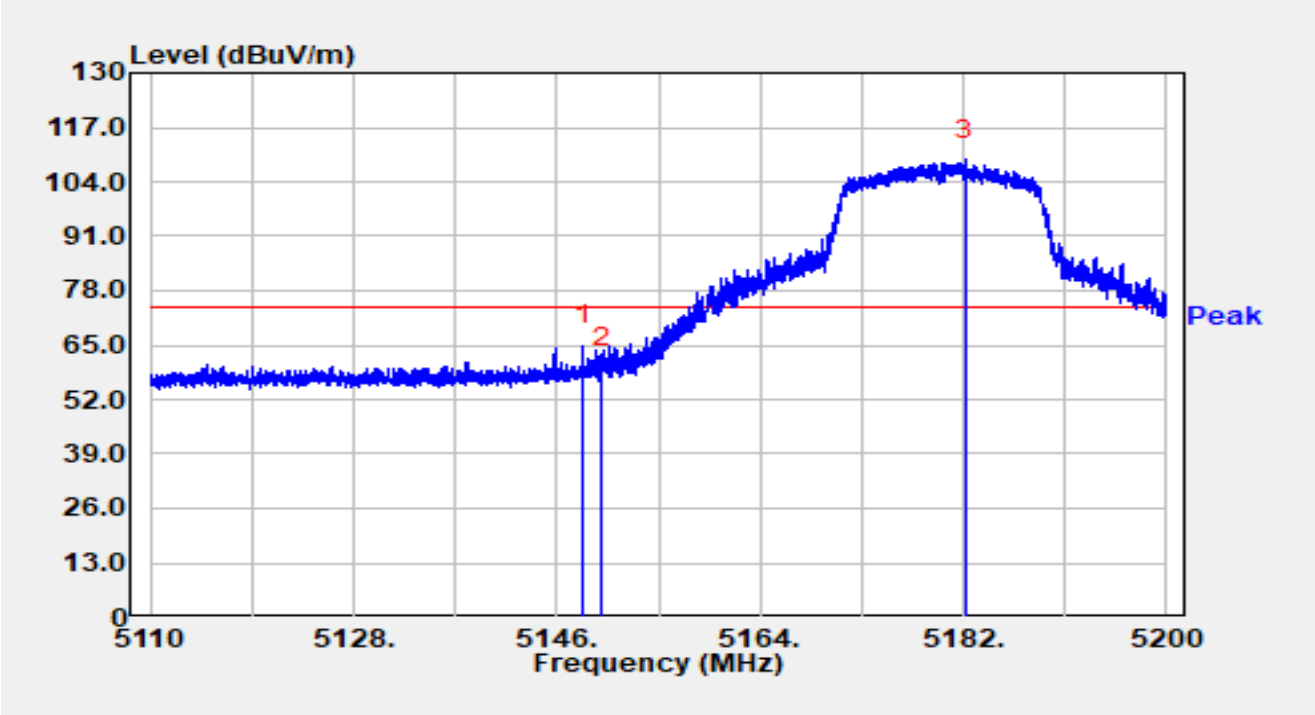
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5180MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5148.349	48.82	15.99	64.81	-9.19	74.00	Peak
2		5150.000	43.70	16.00	59.70	-14.30	74.00	Peak
3		5182.207	93.40	15.92	109.32	N/A	N/A	Peak

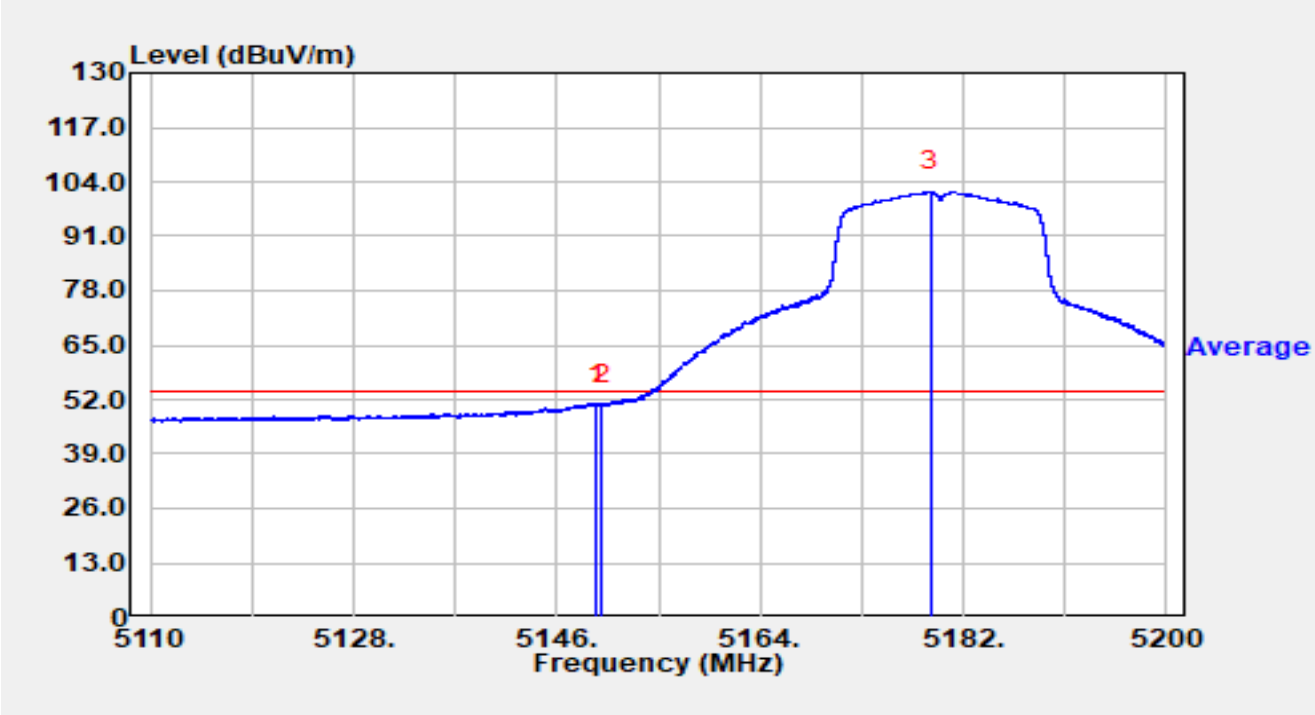
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5180MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5149.474	35.02	16.00	51.02	-2.98	54.00	Average
2		5150.000	34.73	16.00	50.73	-3.27	54.00	Average
3		5179.111	85.81	15.94	101.74	N/A	N/A	Average

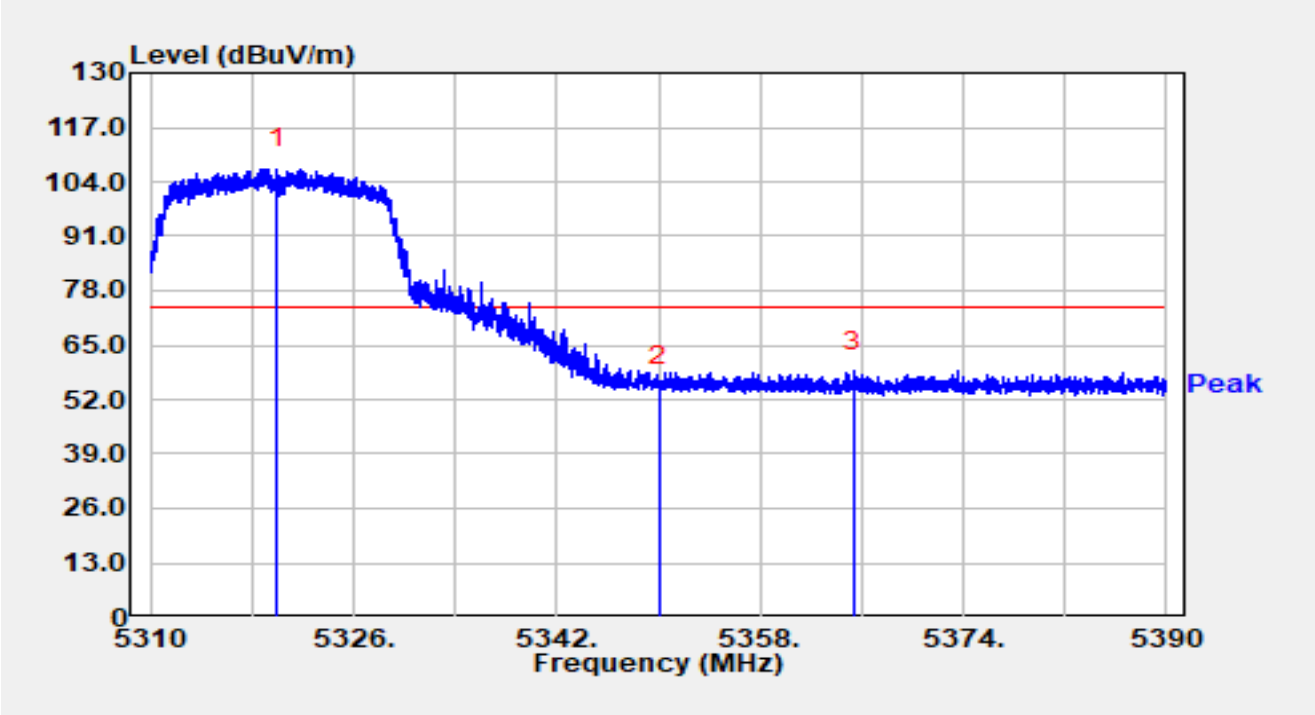
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5320MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5320.008	91.28	15.80	107.08	N/A	N/A	Peak
2		5350.000	39.50	15.68	55.18	-18.82	74.00	Peak
3	*	5365.392	43.17	15.63	58.80	-15.20	74.00	Peak

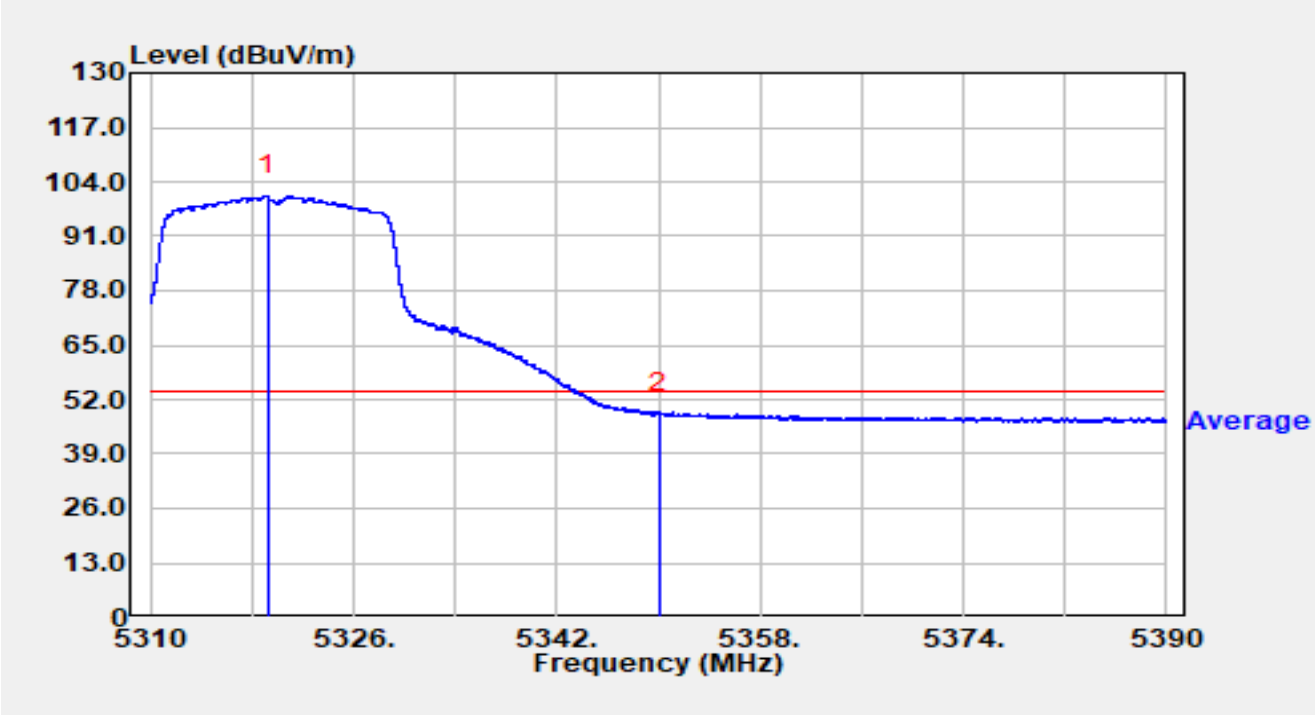
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5320MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5319.208	84.88	15.79	100.67	N/A	N/A	Average
2	*	5350.000	32.93	15.68	48.61	-5.39	54.00	Average

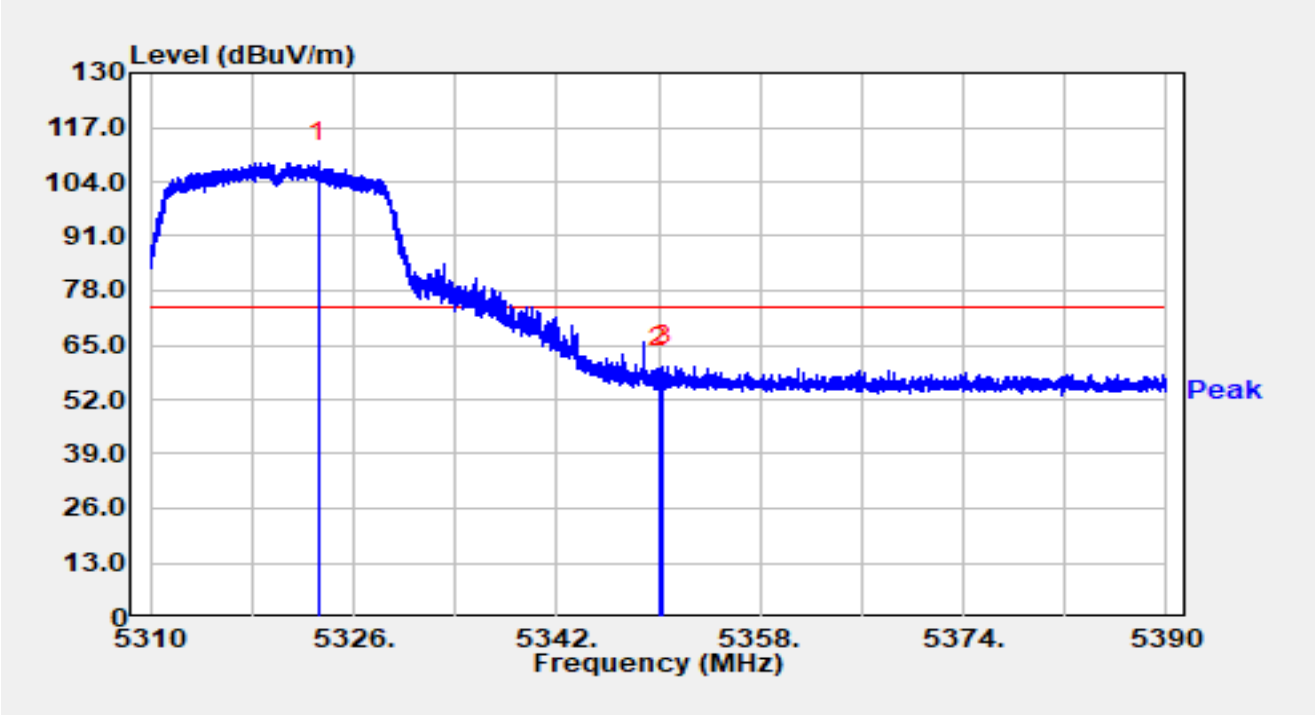
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5320MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5323.264	93.04	15.80	108.84	N/A	N/A	Peak
2		5350.000	43.83	15.68	59.51	-14.49	74.00	Peak
3	*	5350.376	44.38	15.68	60.06	-13.94	74.00	Peak

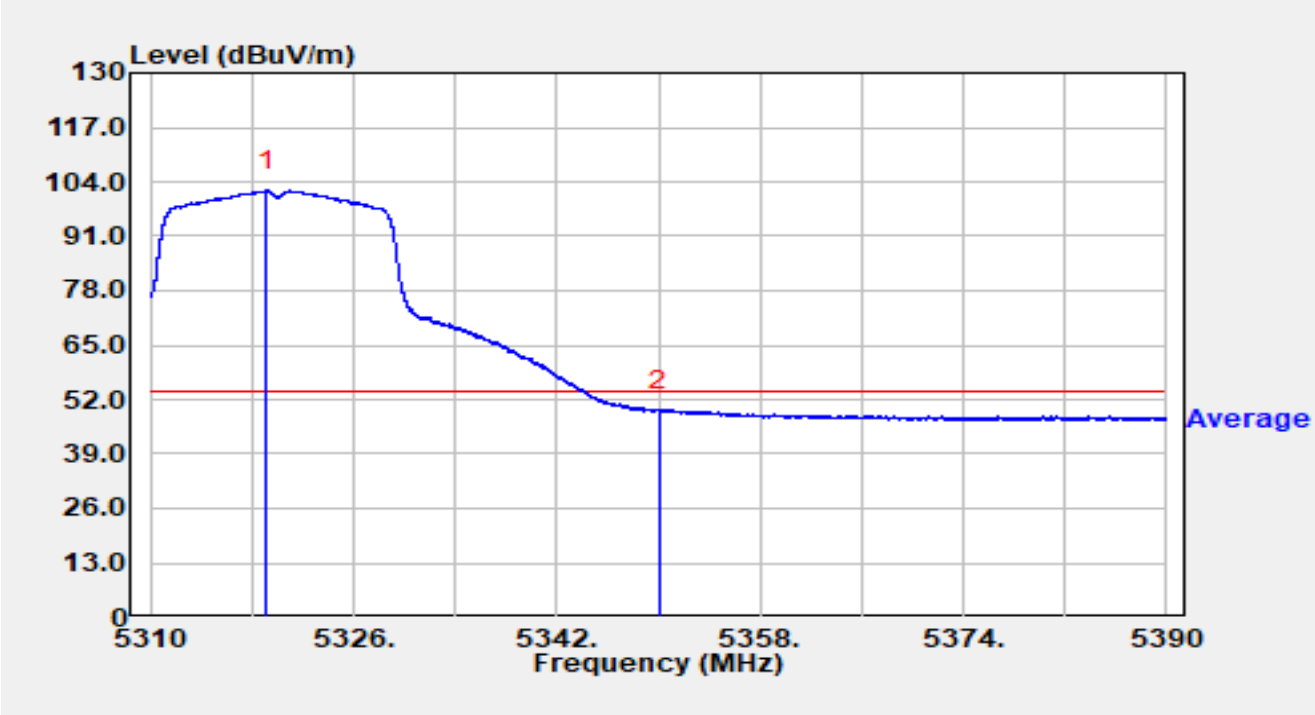
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5320MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5319.192	86.08	15.79	101.87	N/A	N/A	Average
2	*	5350.000	33.63	15.68	49.31	-4.69	54.00	Average

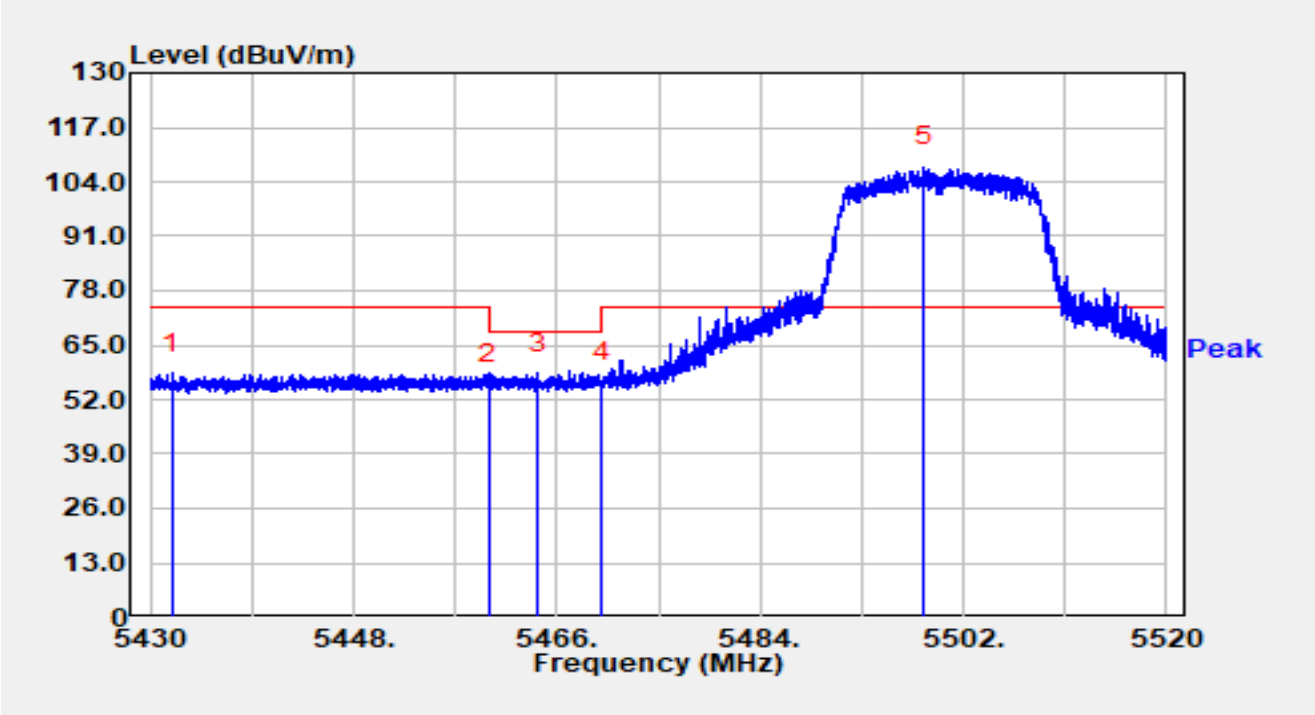
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5500MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5431.917	42.31	15.85	58.16	-15.84	74.00	Peak
2		5460.000	39.82	16.02	55.85	-12.35	68.20	Peak
3	*	5464.344	42.22	16.00	58.23	-9.97	68.20	Peak
4		5470.000	40.17	15.98	56.15	-12.05	68.20	Peak
5		5498.508	91.31	16.16	107.47	N/A	N/A	Peak

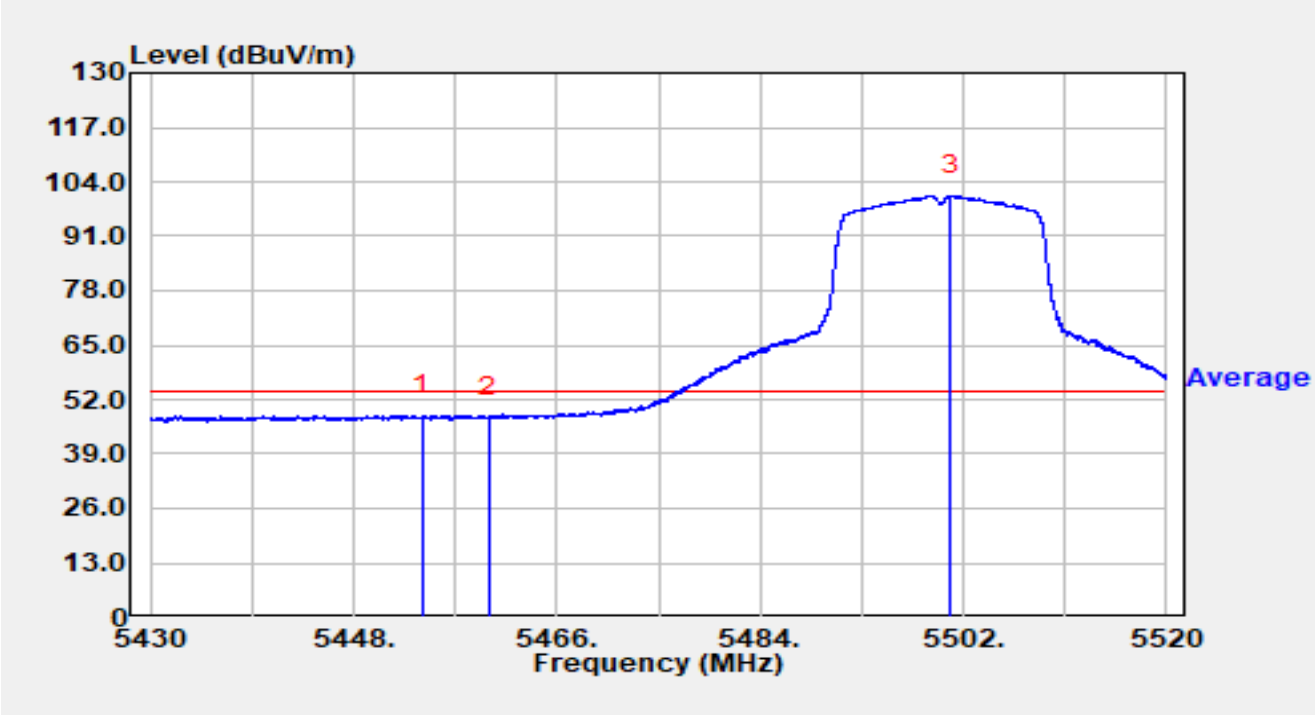
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5500MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5454.120	32.07	16.04	48.11	-5.89	54.00	Average
2		5460.000	31.89	16.02	47.91	-6.09	54.00	Average
3		5500.911	84.55	16.19	100.73	N/A	N/A	Average

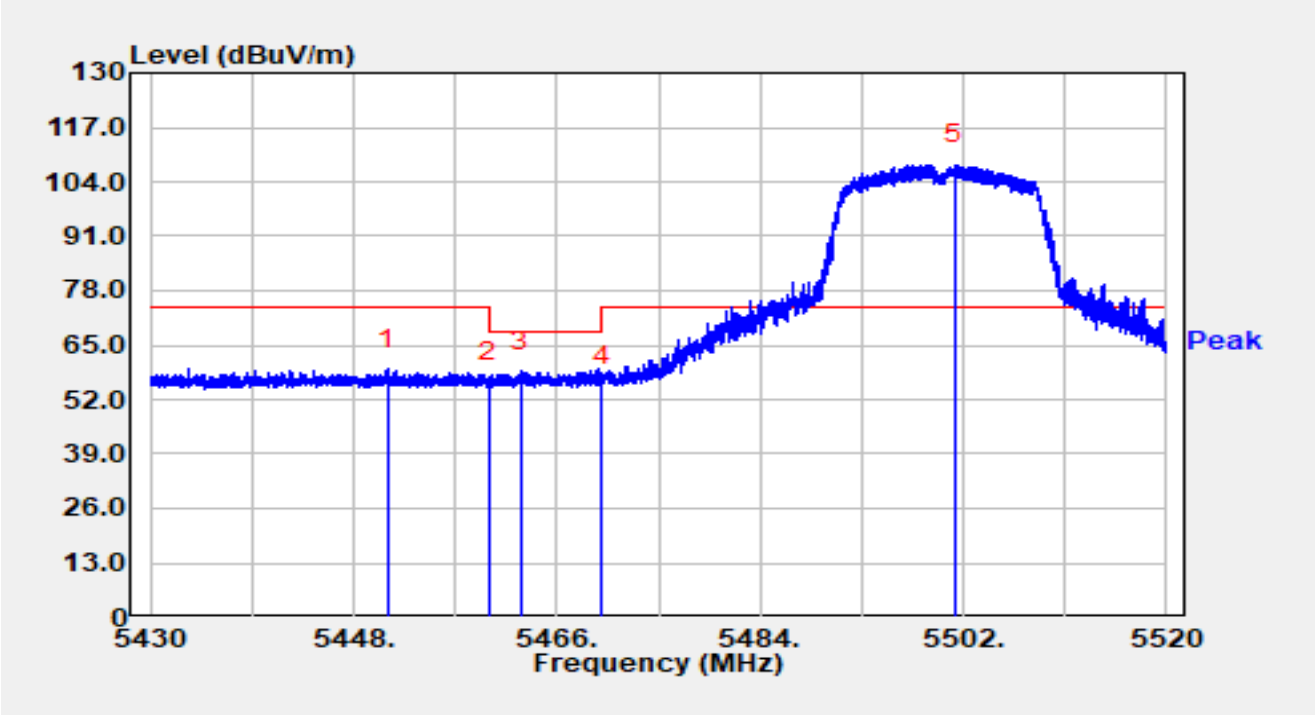
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5500MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5450.952	43.23	16.00	59.24	-14.76	74.00	Peak
2		5460.000	40.04	16.02	56.06	-12.14	68.20	Peak
3	*	5462.760	42.66	16.01	58.67	-9.53	68.20	Peak
4		5470.000	39.44	15.98	55.42	-12.78	68.20	Peak
5		5501.217	91.92	16.19	108.11	N/A	N/A	Peak

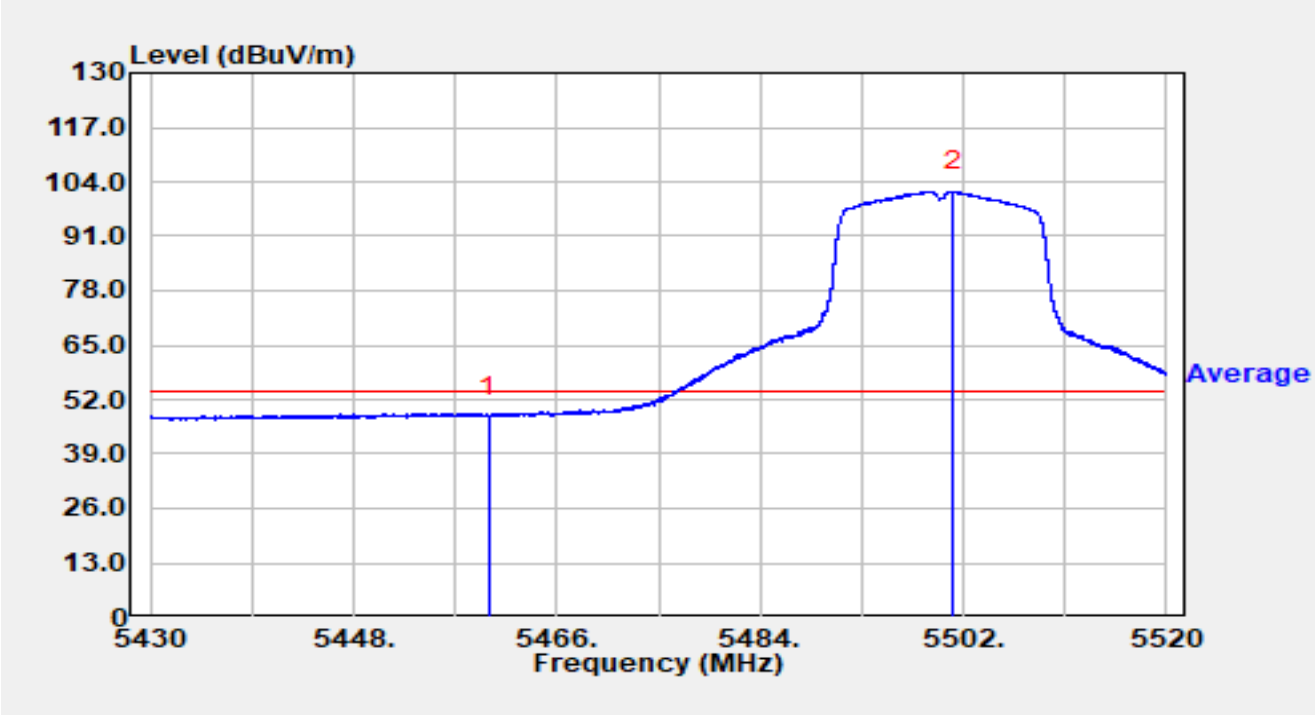
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5500MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5460.000	32.01	16.02	48.03	-5.97	54.00	Average
2		5501.145	85.48	16.19	101.67	N/A	N/A	Average

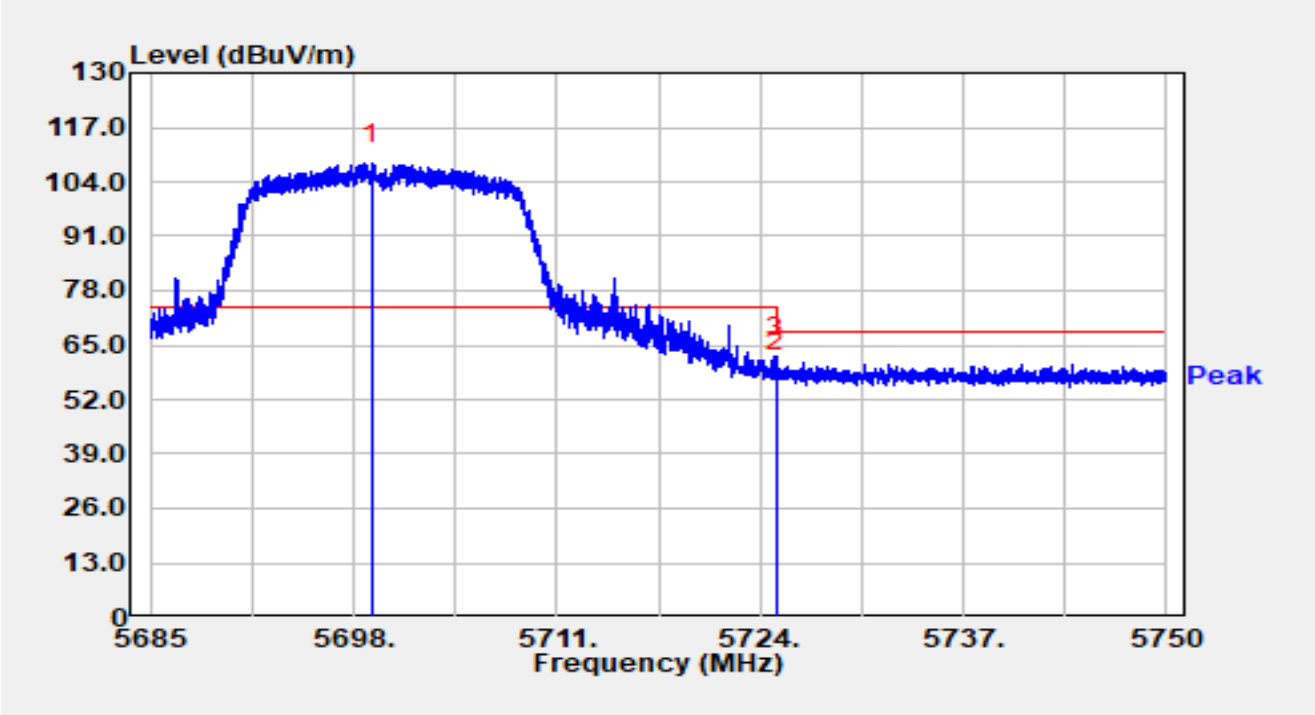
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5700MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5699.144	91.54	16.81	108.35	N/A	N/A	Peak
2		5725.001	41.91	16.92	58.83	-9.37	68.20	Peak
3	*	5725.040	45.23	16.92	62.16	-6.04	68.20	Peak

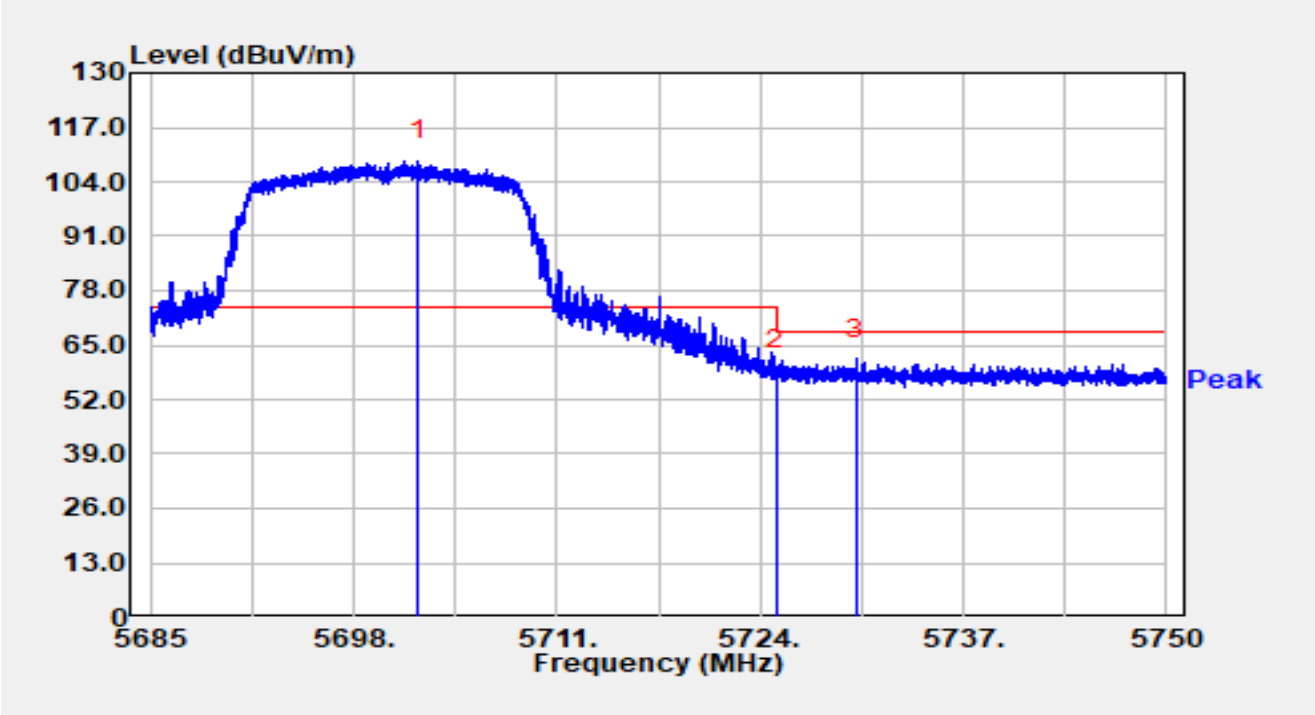
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5700MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5702.121	92.27	16.82	109.09	N/A	N/A	Peak
2		5725.001	41.95	16.92	58.87	-9.33	68.20	Peak
3	*	5730.123	44.69	16.94	61.62	-6.58	68.20	Peak

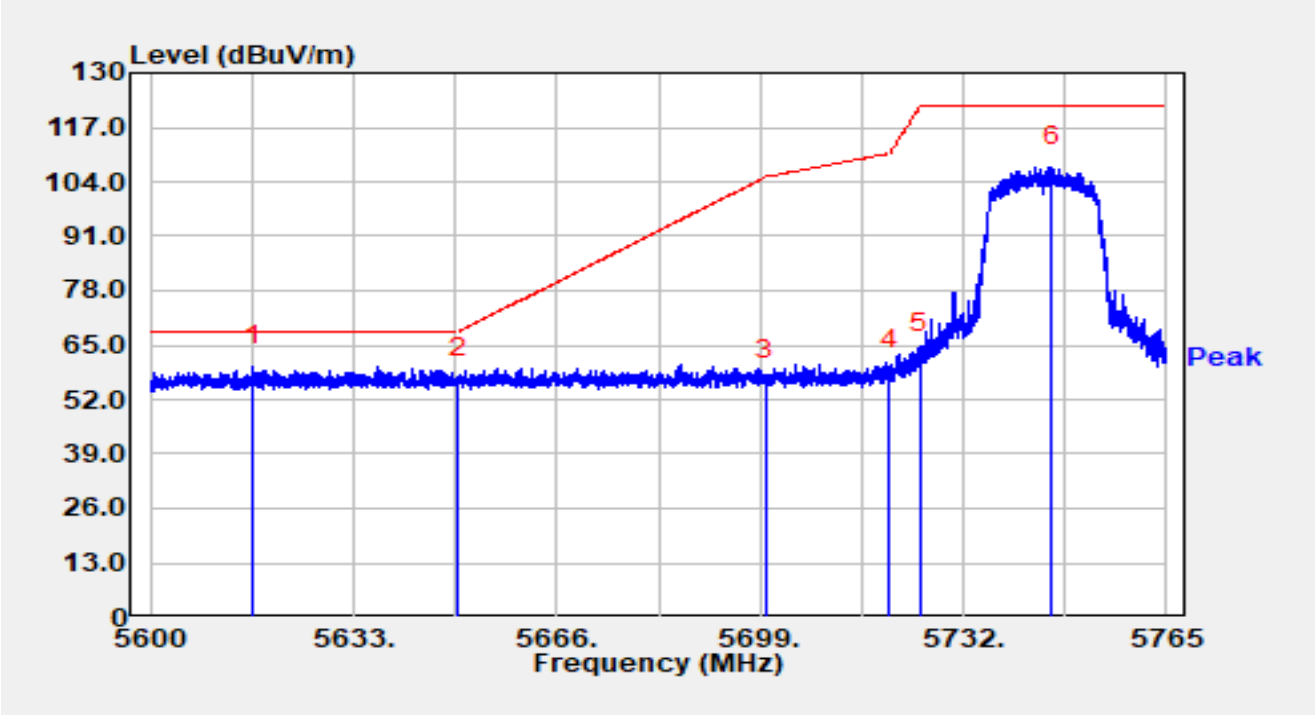
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5745MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5616.599	43.58	16.47	60.05	-8.15	68.20	Peak
2		5650.000	40.73	16.65	57.38	-10.82	68.20	Peak
3		5700.000	39.99	16.81	56.80	-48.40	105.20	Peak
4		5720.000	42.04	16.90	58.94	-51.86	110.80	Peak
5		5725.000	45.87	16.92	62.79	-59.41	122.20	Peak
6		5746.256	90.66	16.97	107.63	N/A	N/A	Peak

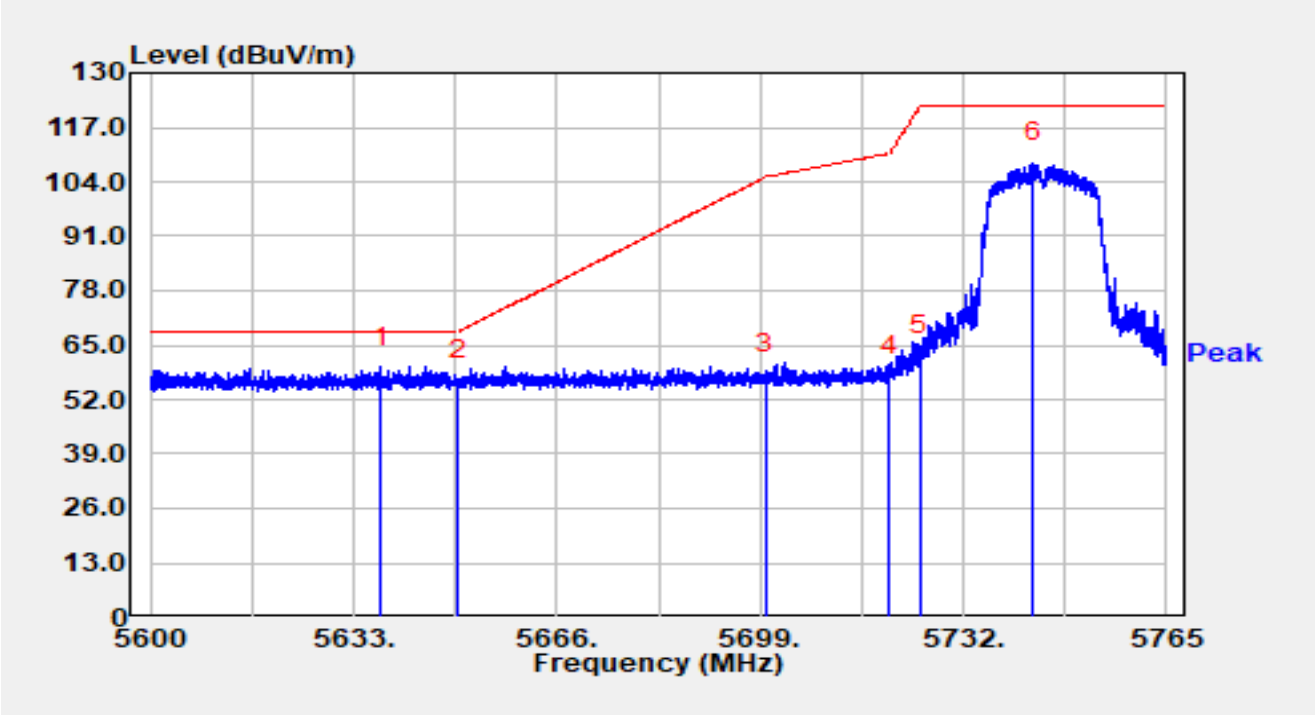
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5745MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5637.389	43.19	16.60	59.79	-8.41	68.20	Peak
2		5650.000	39.89	16.65	56.55	-11.65	68.20	Peak
3		5700.000	41.47	16.81	58.28	-46.92	105.20	Peak
4		5720.000	40.72	16.90	57.62	-53.18	110.80	Peak
5		5725.000	45.46	16.92	62.38	-59.82	122.20	Peak
6		5743.418	91.63	16.96	108.59	N/A	N/A	Peak

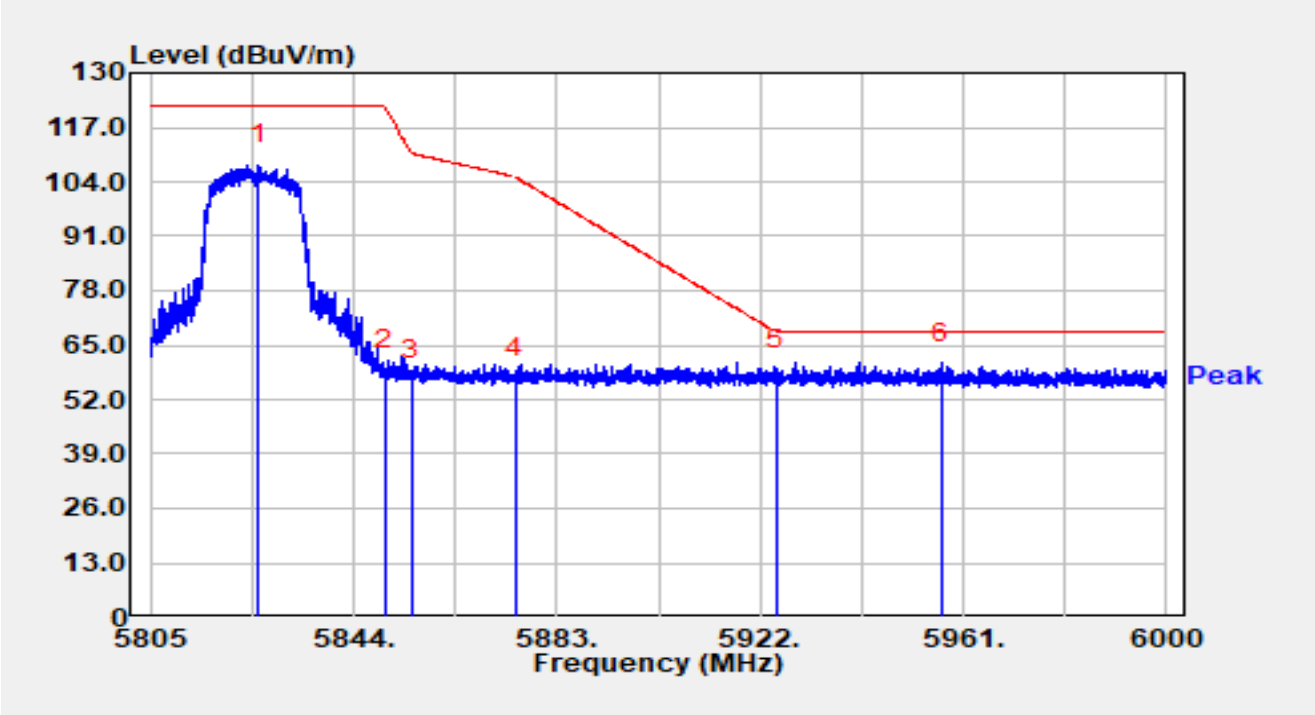
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5825MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5825.865	90.76	17.37	108.14	N/A	N/A	Peak
2		5850.006	41.90	17.31	59.21	-62.97	122.19	Peak
3		5855.000	39.39	17.32	56.72	-54.08	110.80	Peak
4		5875.000	39.58	17.38	56.96	-48.24	105.20	Peak
5		5925.000	41.75	17.36	59.12	-9.08	68.20	Peak
6	*	5956.690	43.22	17.46	60.68	-7.52	68.20	Peak

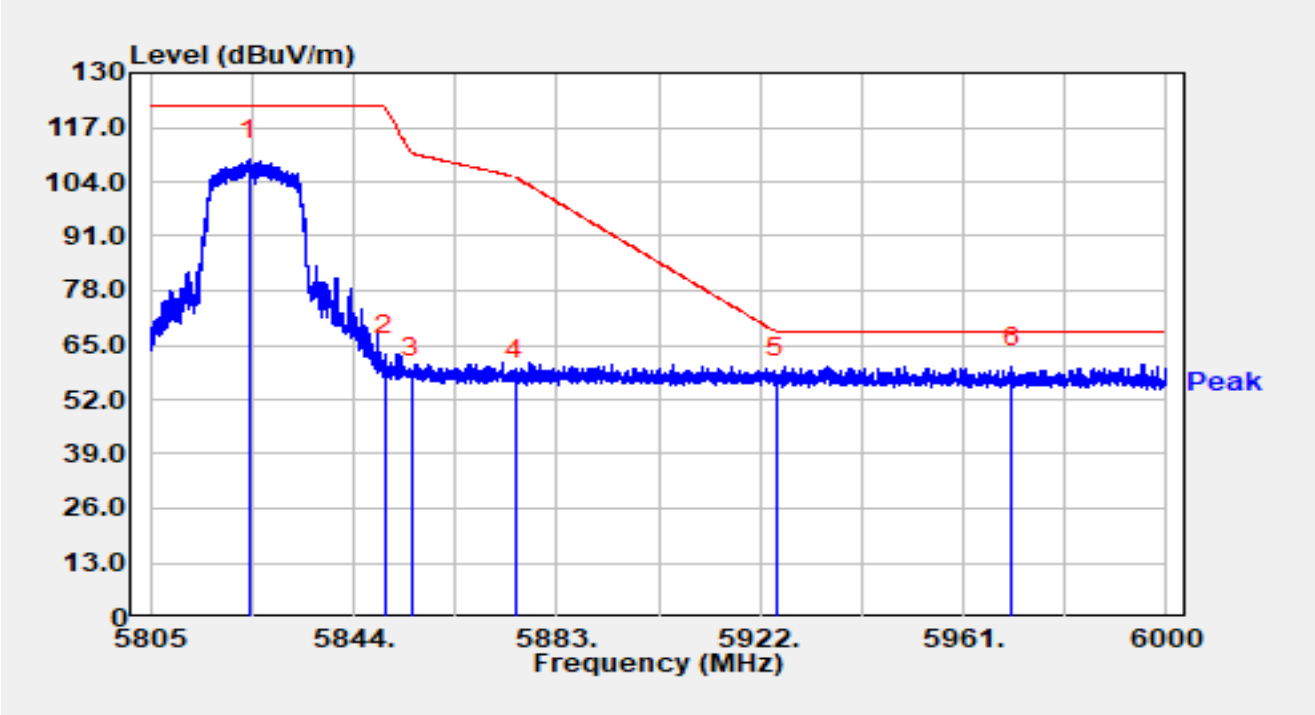
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT20 at 5825MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5824.071	91.86	17.37	109.23	N/A	N/A	Peak
2		5850.006	45.32	17.31	62.64	-59.55	122.19	Peak
3		5855.000	39.62	17.32	56.95	-53.85	110.80	Peak
4		5875.000	39.50	17.38	56.88	-48.32	105.20	Peak
5		5925.000	39.90	17.36	57.26	-10.94	68.20	Peak
6	*	5970.204	42.32	17.52	59.84	-8.36	68.20	Peak

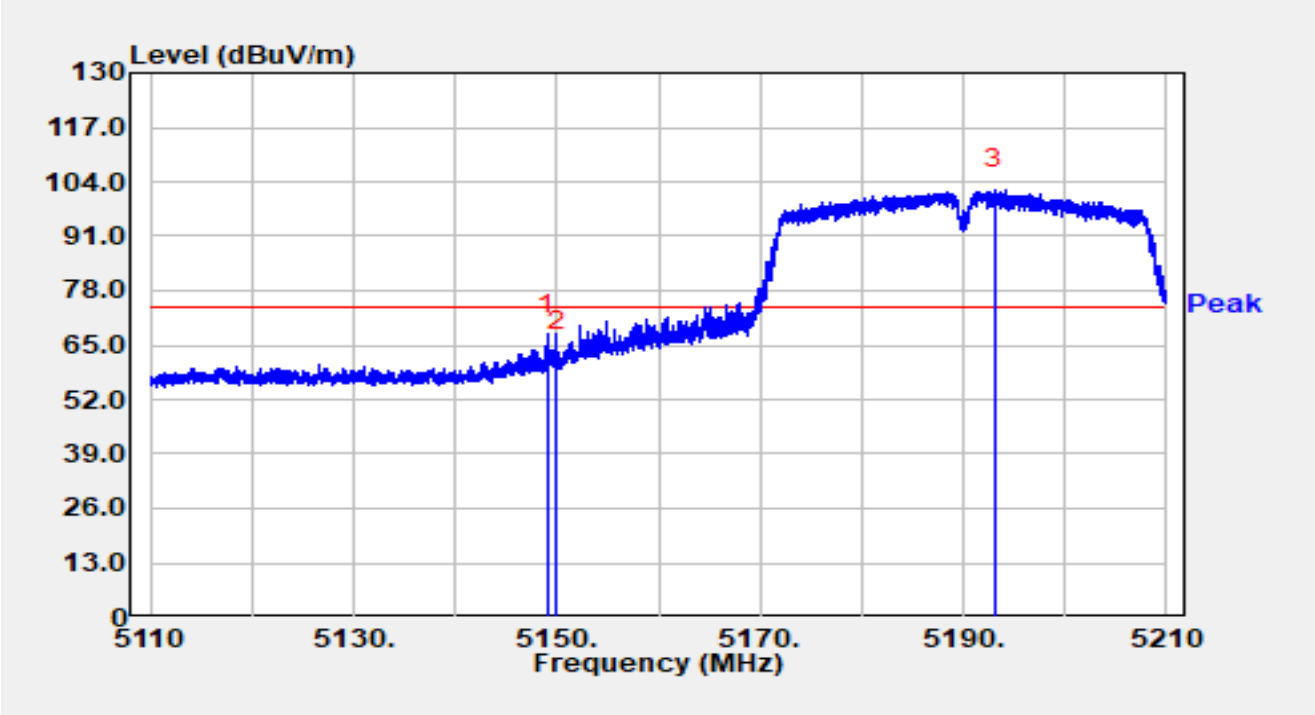
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5190MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5149.020	51.46	16.00	67.45	-6.55	74.00	Peak
2		5150.000	47.37	16.00	63.37	-10.63	74.00	Peak
3		5193.080	86.15	15.96	102.11	N/A	N/A	Peak

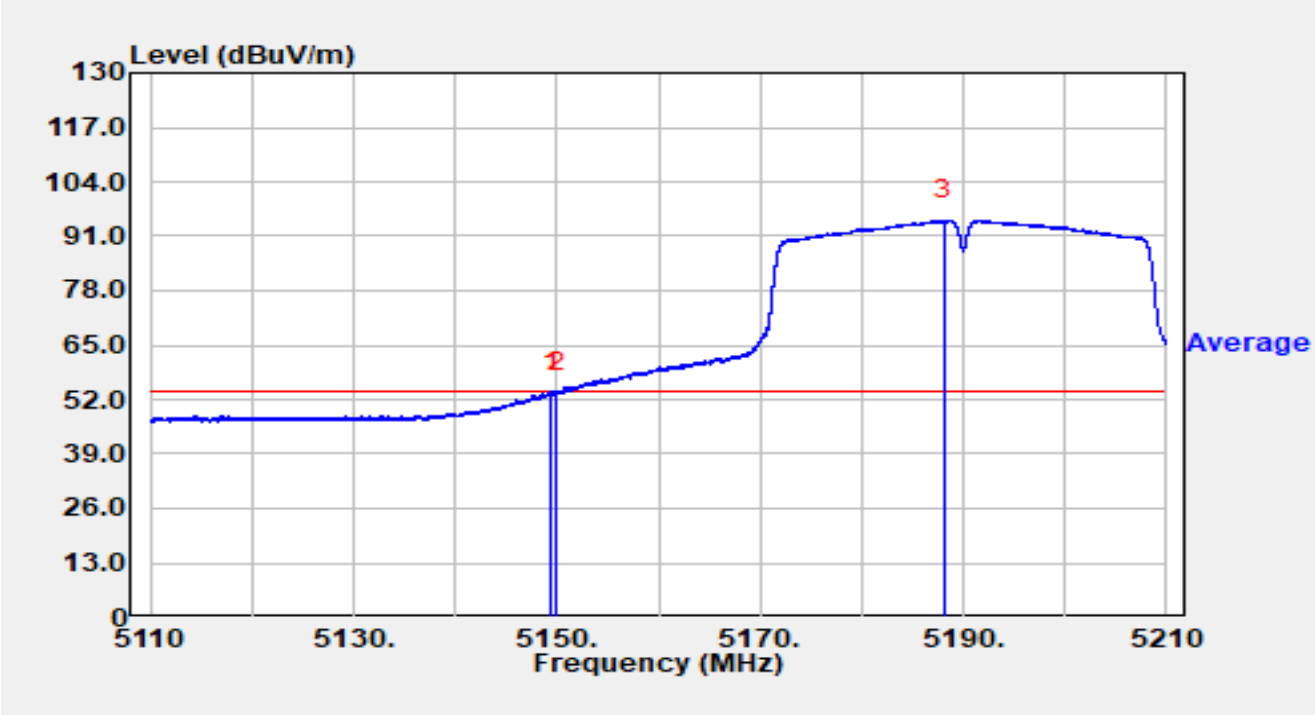
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5190MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5149.520	37.85	16.00	53.85	-0.15	54.00	Average
2		5150.000	37.85	16.00	53.84	-0.16	54.00	Average
3		5188.090	78.96	15.94	94.91	N/A	N/A	Average

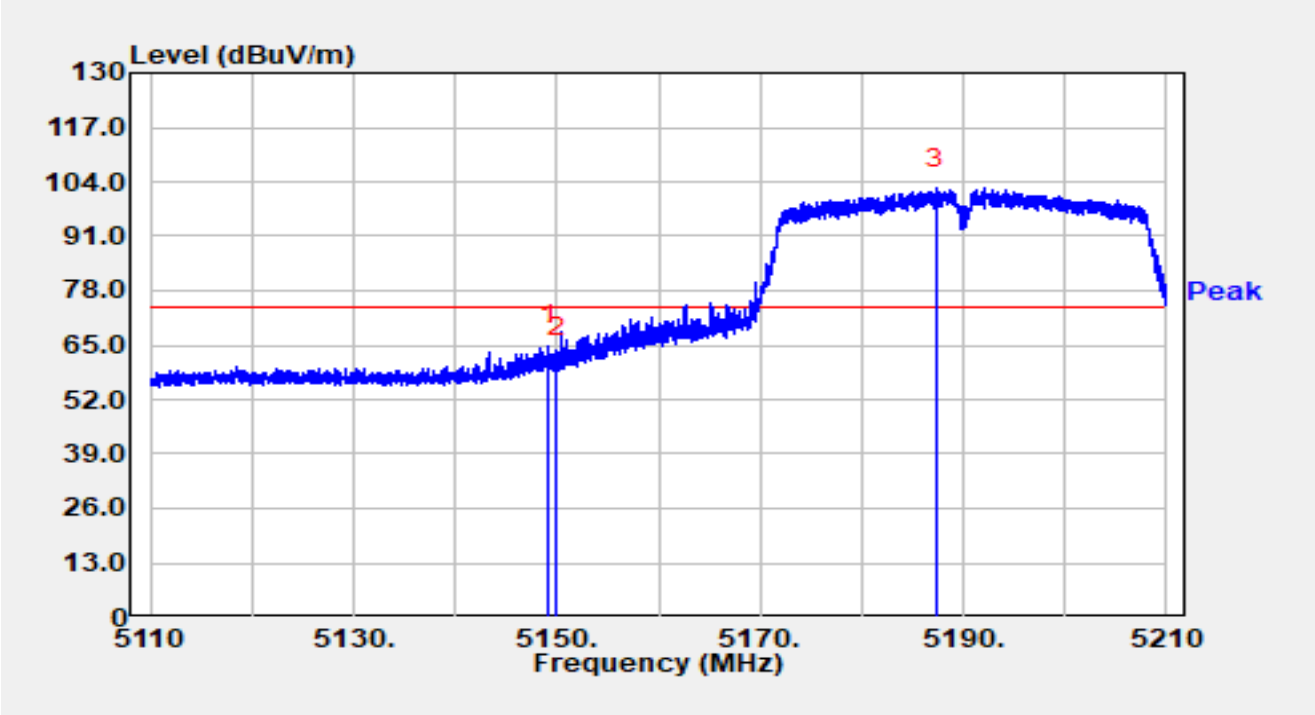
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5190MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5149.160	48.86	16.00	64.86	-9.14	74.00	Peak
2		5150.000	46.28	16.00	62.28	-11.72	74.00	Peak
3		5187.290	86.43	15.94	102.37	N/A	N/A	Peak

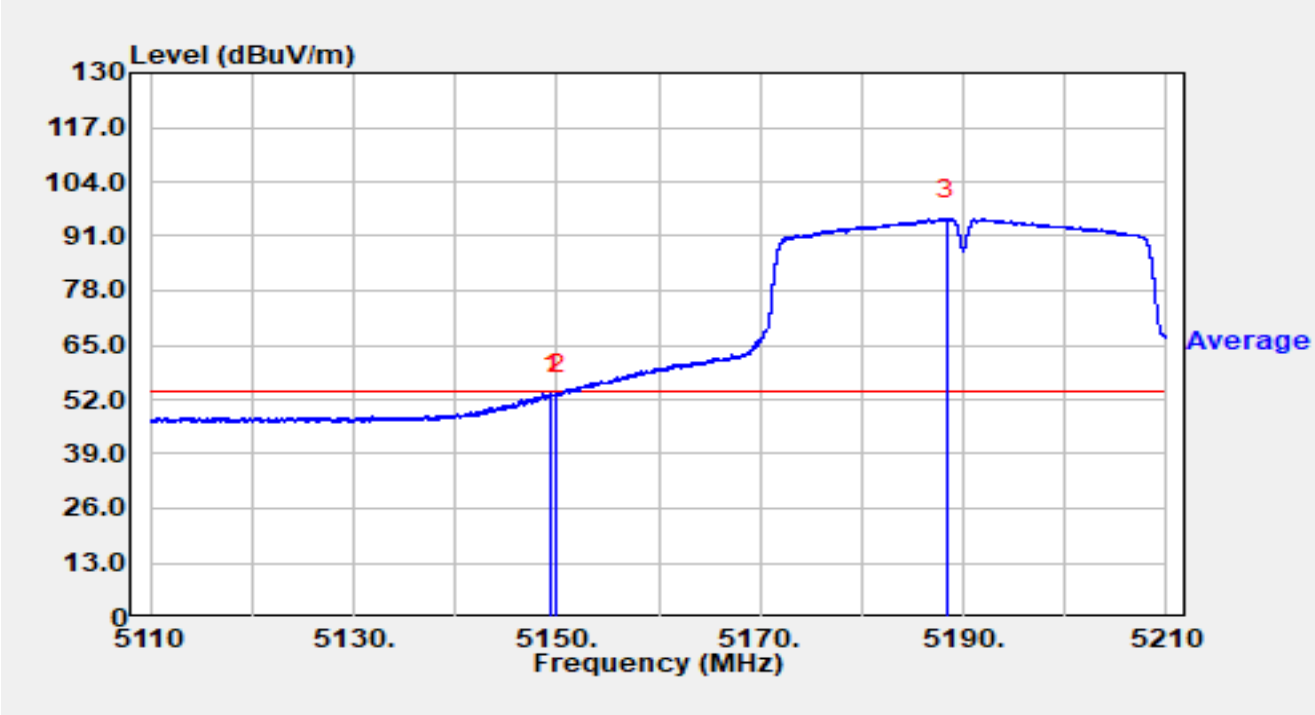
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5190MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5149.490	37.41	16.00	53.41	-0.59	54.00	Average
2		5150.000	37.17	16.00	53.17	-0.83	54.00	Average
3		5188.320	79.20	15.94	95.15	N/A	N/A	Average

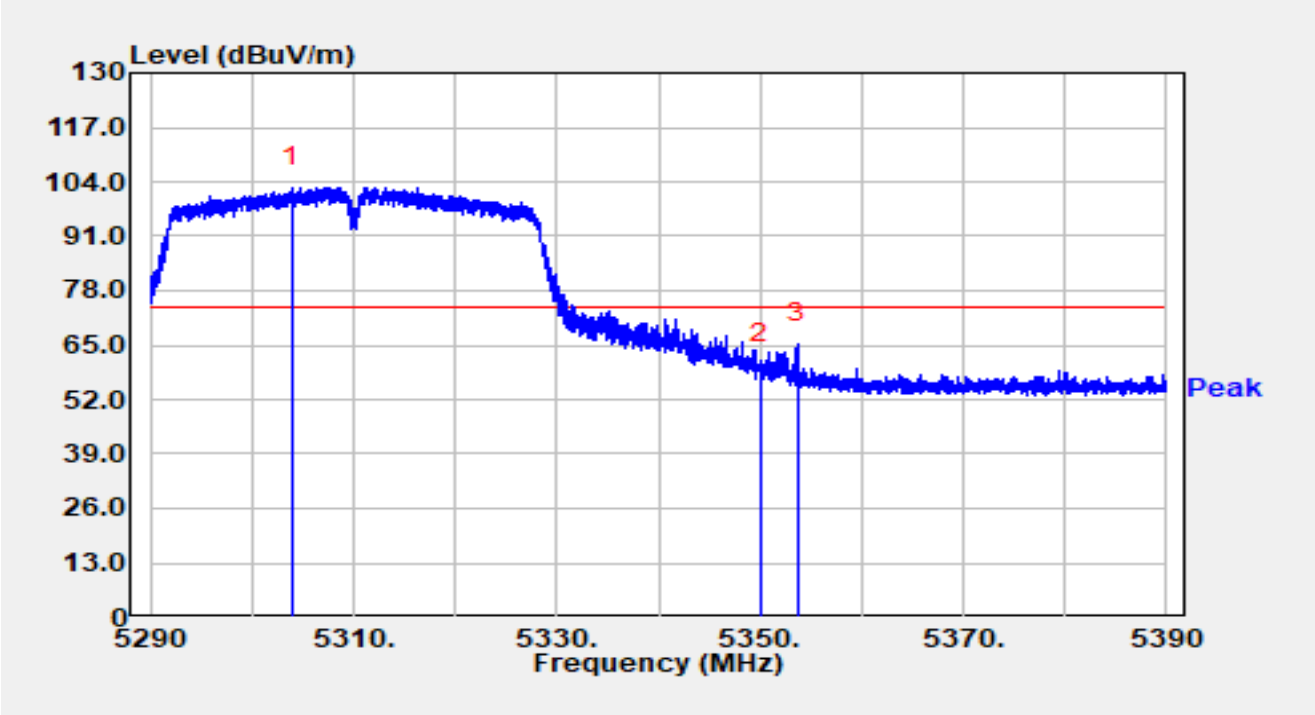
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5310MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5303.910	86.98	15.76	102.75	N/A	N/A	Peak
2		5350.000	44.87	15.68	60.55	-13.45	74.00	Peak
3	*	5353.650	49.65	15.67	65.32	-8.68	74.00	Peak

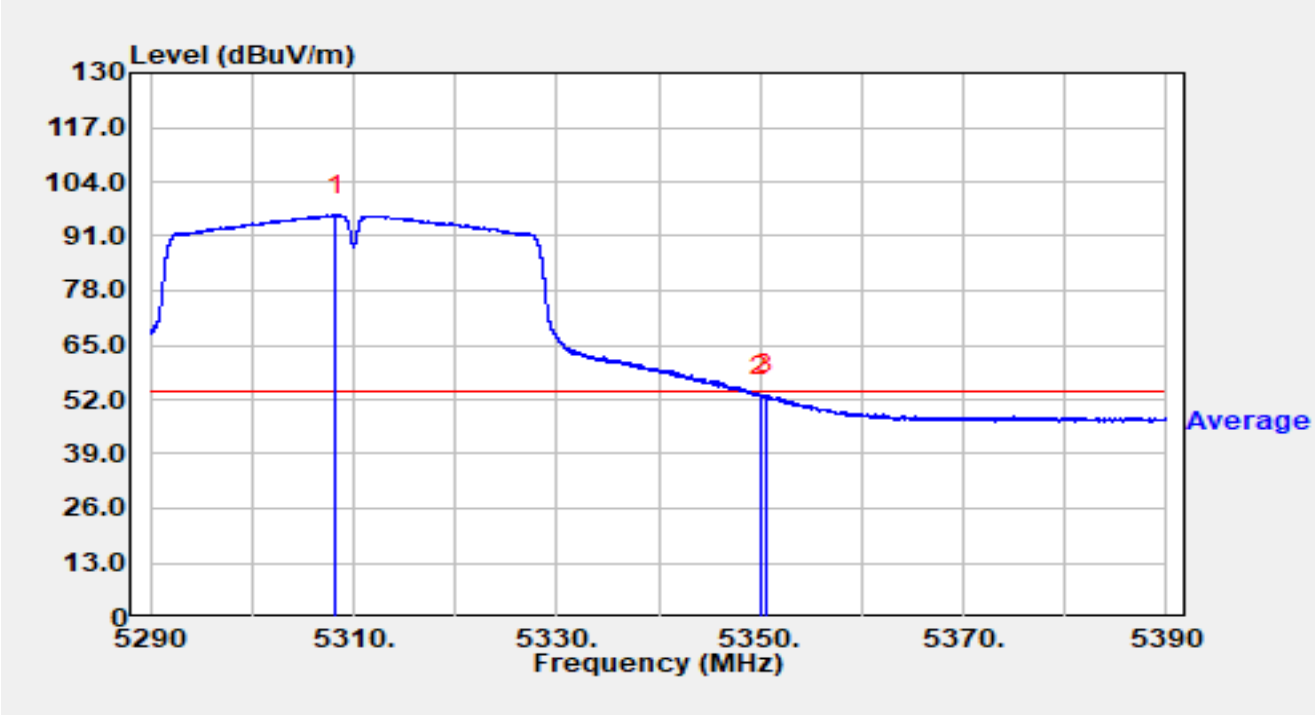
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5310MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5308.180	80.26	15.77	96.02	N/A	N/A	Average
2		5350.000	37.18	15.68	52.86	-1.14	54.00	Average
3	*	5350.480	37.37	15.68	53.05	-0.95	54.00	Average

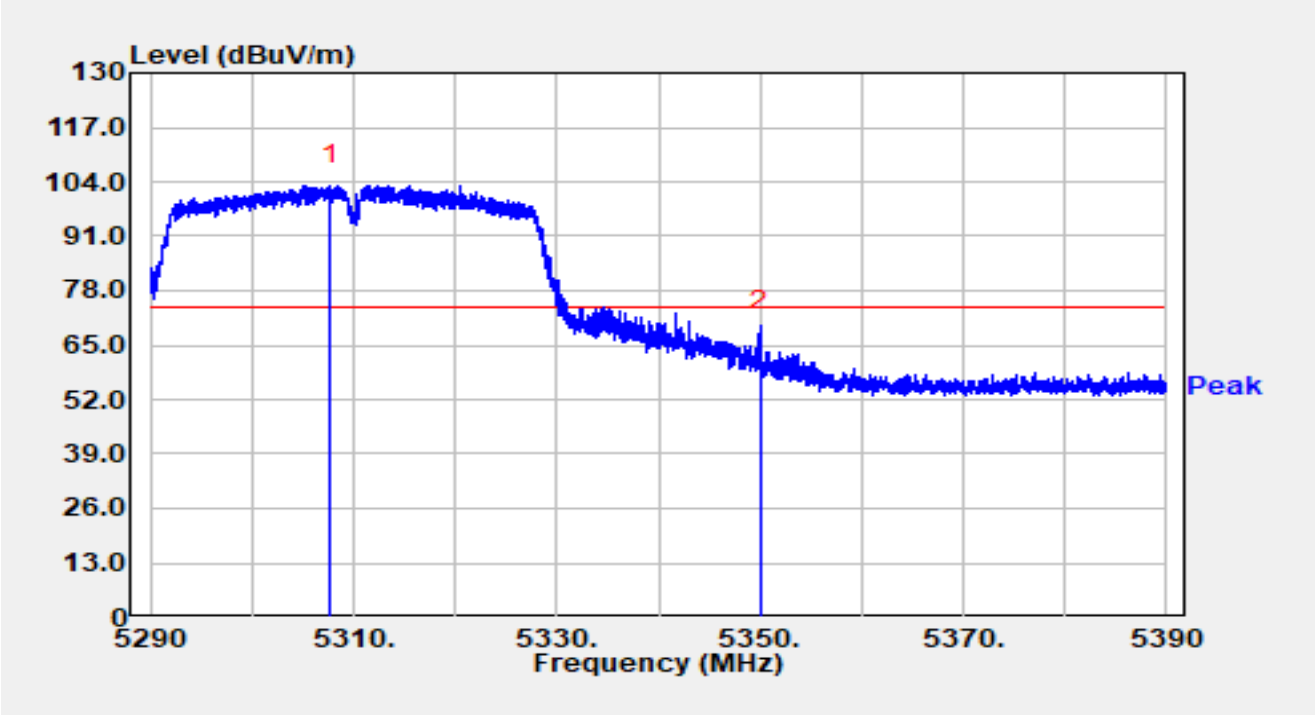
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5310MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5307.680	87.47	15.77	103.24	N/A	N/A	Peak
2	*	5350.000	52.60	15.68	68.28	-5.72	74.00	Peak

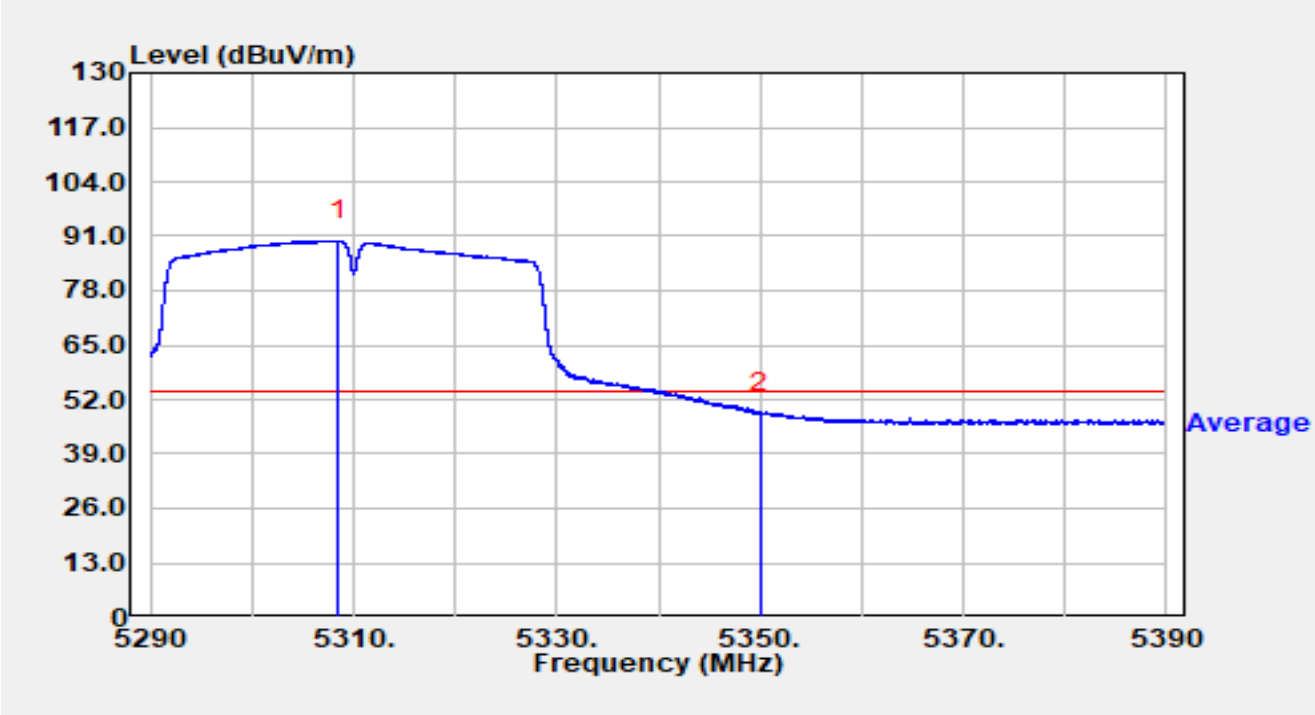
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5310MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5308.440	74.13	15.77	89.90	N/A	N/A	Average
2	*	5350.000	33.20	15.68	48.88	-5.12	54.00	Average

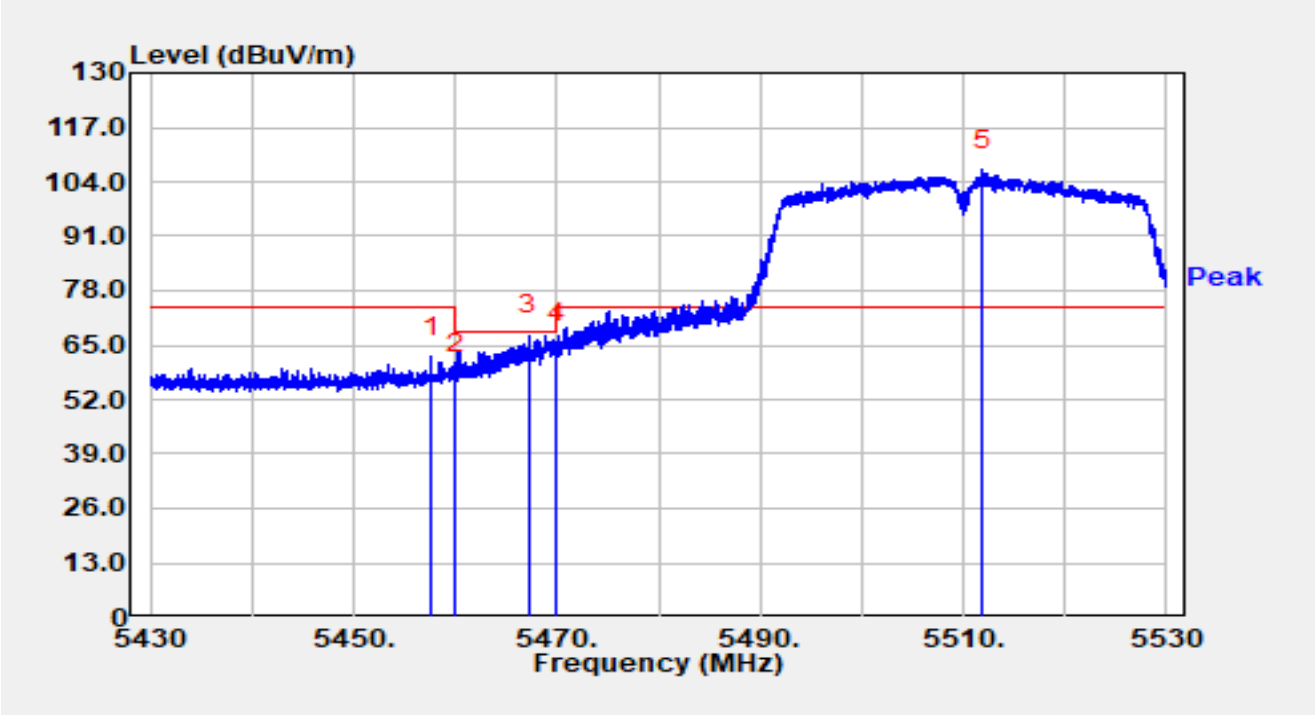
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5510MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5457.660	46.27	16.03	62.30	-11.70	74.00	Peak
2		5460.000	42.34	16.02	58.36	-9.84	68.20	Peak
3	*	5467.250	51.36	15.99	67.35	-0.85	68.20	Peak
4		5470.000	49.39	15.98	65.37	-2.83	68.20	Peak
5		5511.940	90.57	16.21	106.77	N/A	N/A	Peak

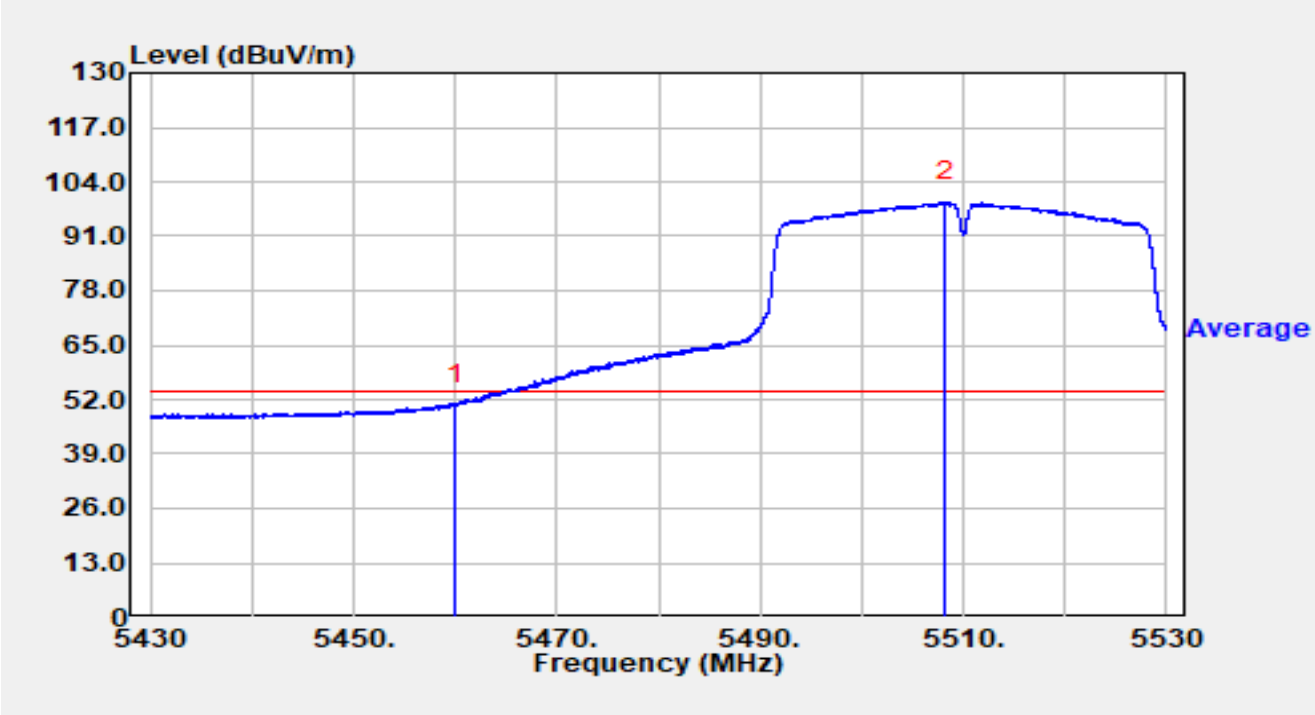
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5510MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5460.000	34.81	16.02	50.83	-3.17	54.00	Average
2		5508.270	83.07	16.22	99.29	N/A	N/A	Average

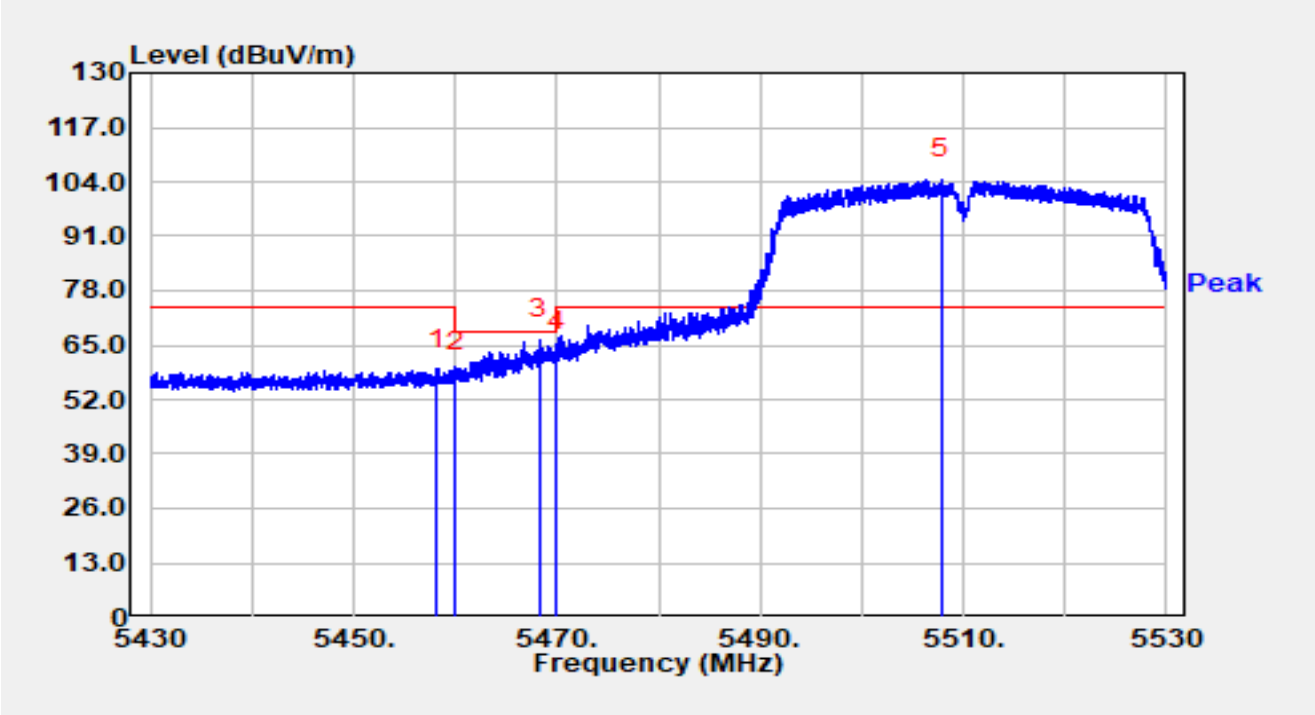
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5510MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5458.250	43.28	16.03	59.31	-14.69	74.00	Peak
2		5460.000	42.39	16.02	58.41	-9.79	68.20	Peak
3	*	5468.260	50.48	15.99	66.47	-1.73	68.20	Peak
4		5470.000	47.33	15.98	63.31	-4.89	68.20	Peak
5		5507.880	88.30	16.22	104.52	N/A	N/A	Peak

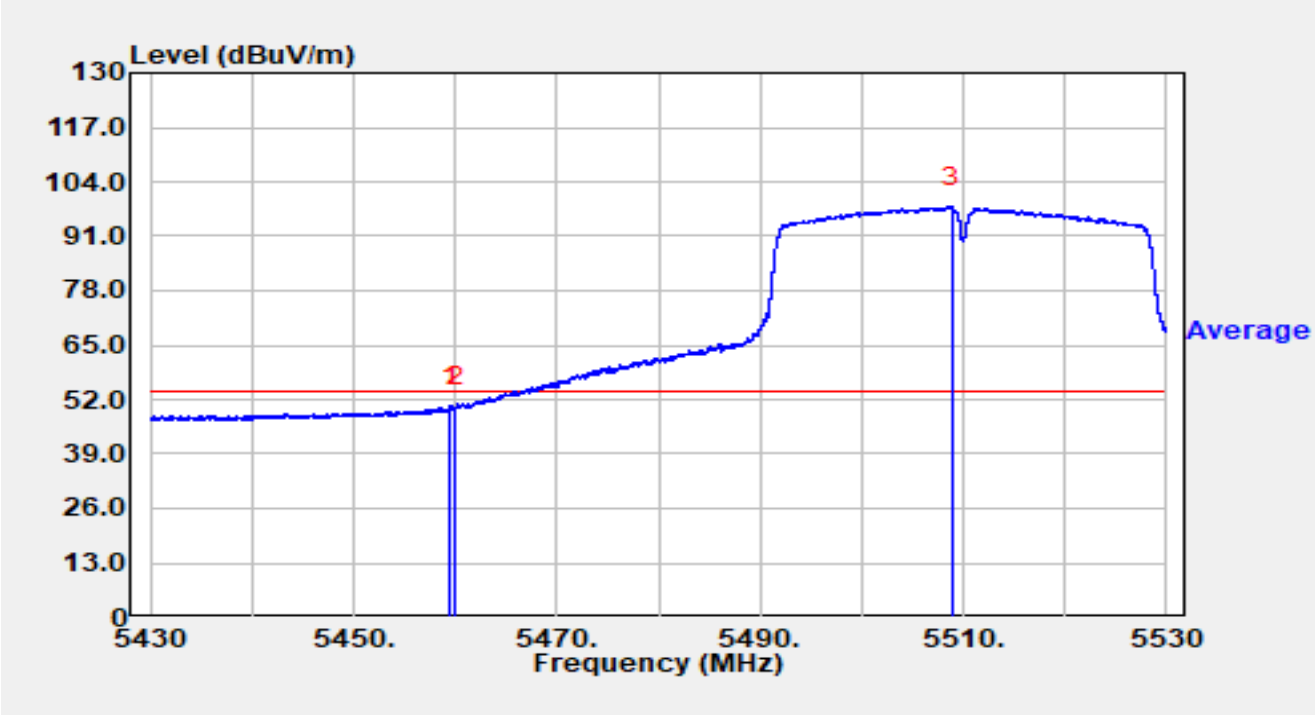
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5510MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5459.530	34.39	16.02	50.42	-3.58	54.00	Average
2		5460.000	34.04	16.02	50.06	-3.94	54.00	Average
3		5508.820	81.77	16.22	97.99	N/A	N/A	Average

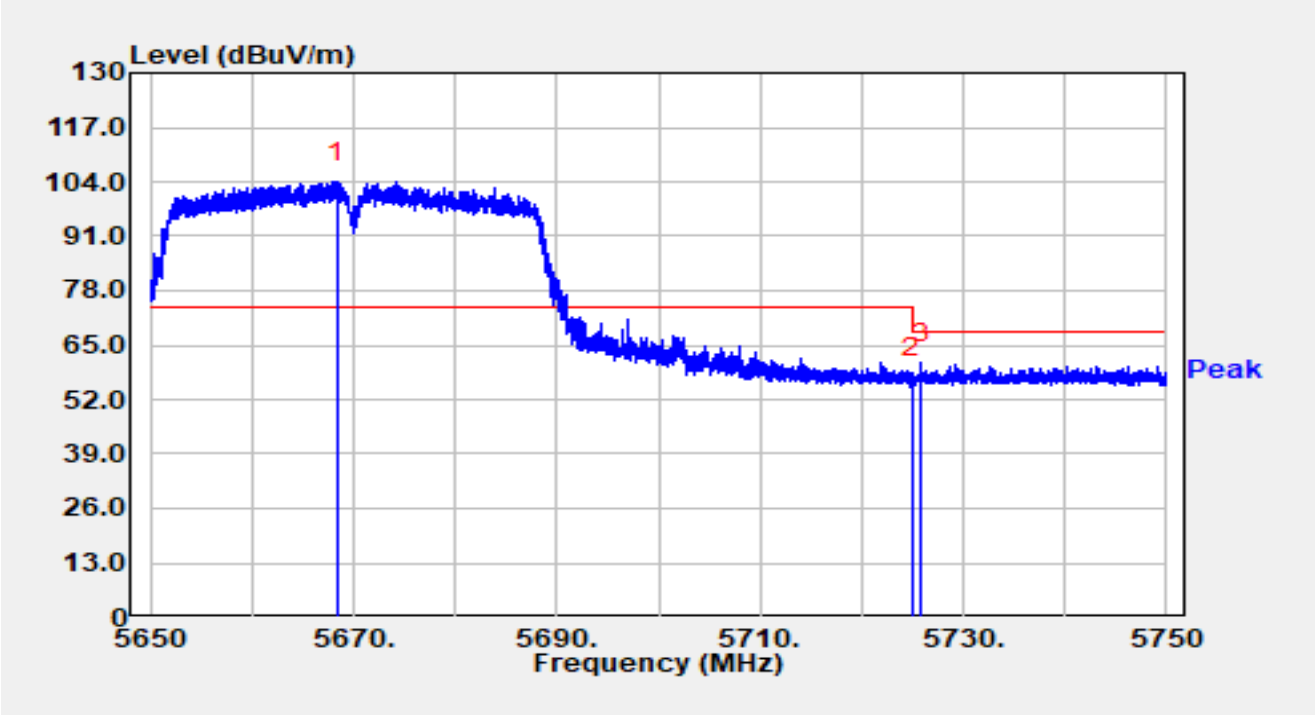
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5670MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5668.320	87.26	16.66	103.91	N/A	N/A	Peak
2		5725.000	40.34	16.92	57.26	-10.94	68.20	Peak
3	*	5725.890	43.84	16.93	60.76	-7.44	68.20	Peak

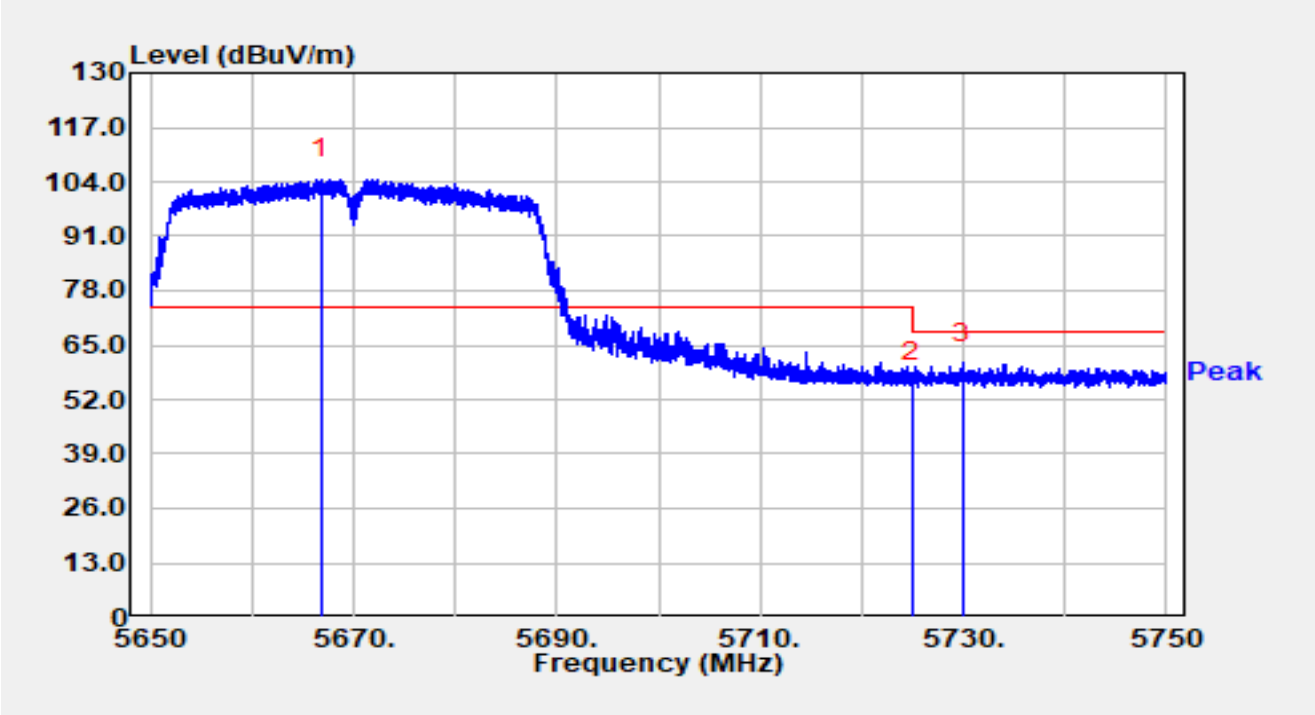
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5670MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5666.850	87.92	16.66	104.58	N/A	N/A	Peak
2		5725.000	39.49	16.92	56.41	-11.79	68.20	Peak
3	*	5729.940	43.66	16.94	60.60	-7.60	68.20	Peak

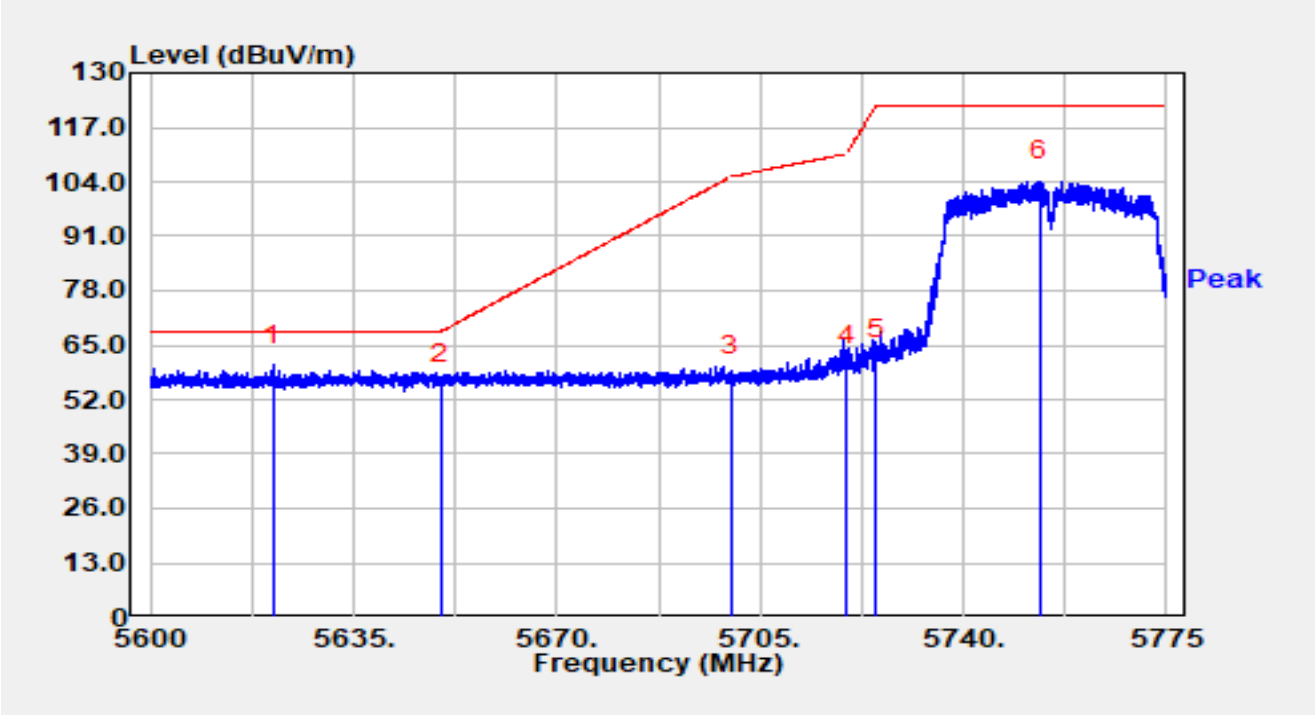
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5755MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5621.140	43.80	16.49	60.29	-7.91	68.20	Peak
2		5650.000	38.81	16.65	55.46	-12.74	68.20	Peak
3		5700.000	40.71	16.81	57.53	-47.67	105.20	Peak
4		5720.000	43.32	16.90	60.22	-50.58	110.80	Peak
5		5725.000	44.79	16.92	61.71	-60.49	122.20	Peak
6		5753.230	87.15	17.01	104.16	N/A	N/A	Peak

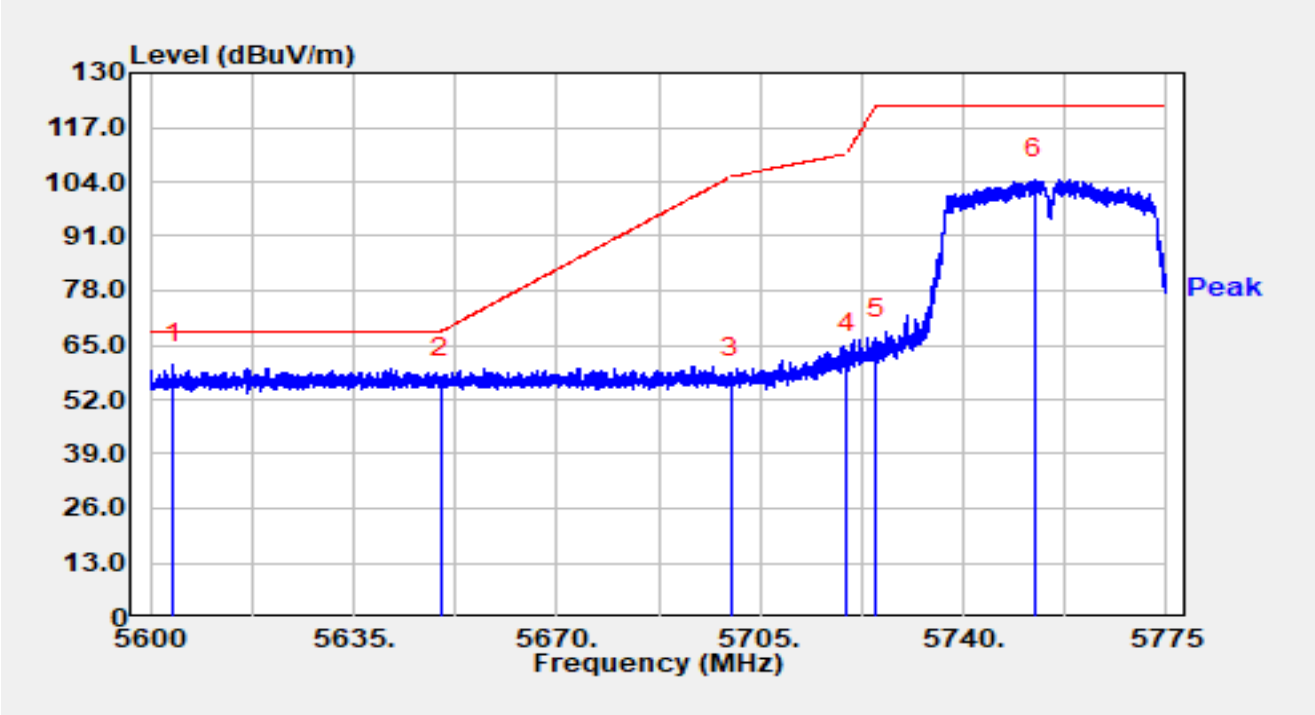
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5755MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5603.920	43.95	16.44	60.39	-7.81	68.20	Peak
2		5650.000	40.42	16.65	57.08	-11.12	68.20	Peak
3		5700.000	40.19	16.81	57.00	-48.20	105.20	Peak
4		5720.000	46.34	16.90	63.25	-47.55	110.80	Peak
5		5725.000	49.42	16.92	66.34	-55.86	122.20	Peak
6		5752.337	87.58	17.00	104.58	N/A	N/A	Peak

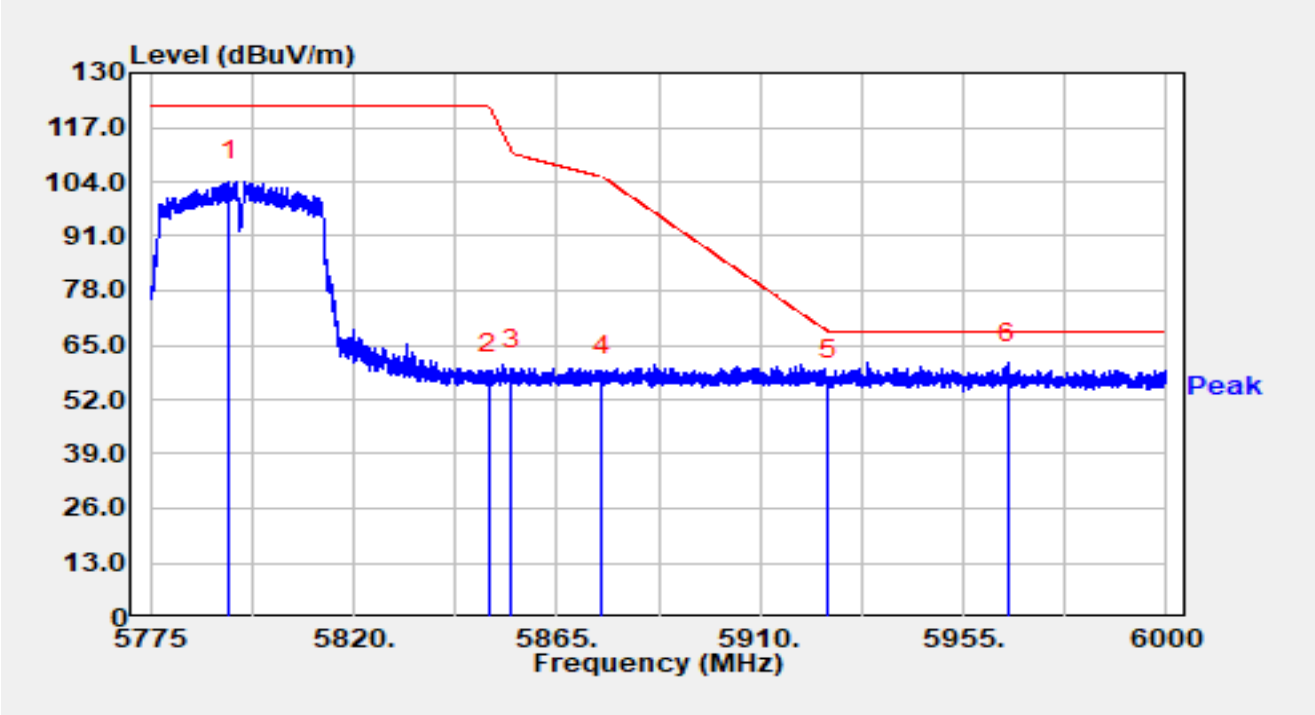
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5795MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		5792.415	86.95	17.27	104.22	N/A	N/A	Peak
2		5849.993	40.63	17.31	57.94	-64.26	122.20	Peak
3		5855.000	41.86	17.32	59.18	-51.62	110.80	Peak
4		5875.000	40.20	17.38	57.58	-47.62	105.20	Peak
5		5925.000	39.20	17.36	56.57	-11.63	68.20	Peak
6	*	5964.810	43.19	17.48	60.67	-7.53	68.20	Peak

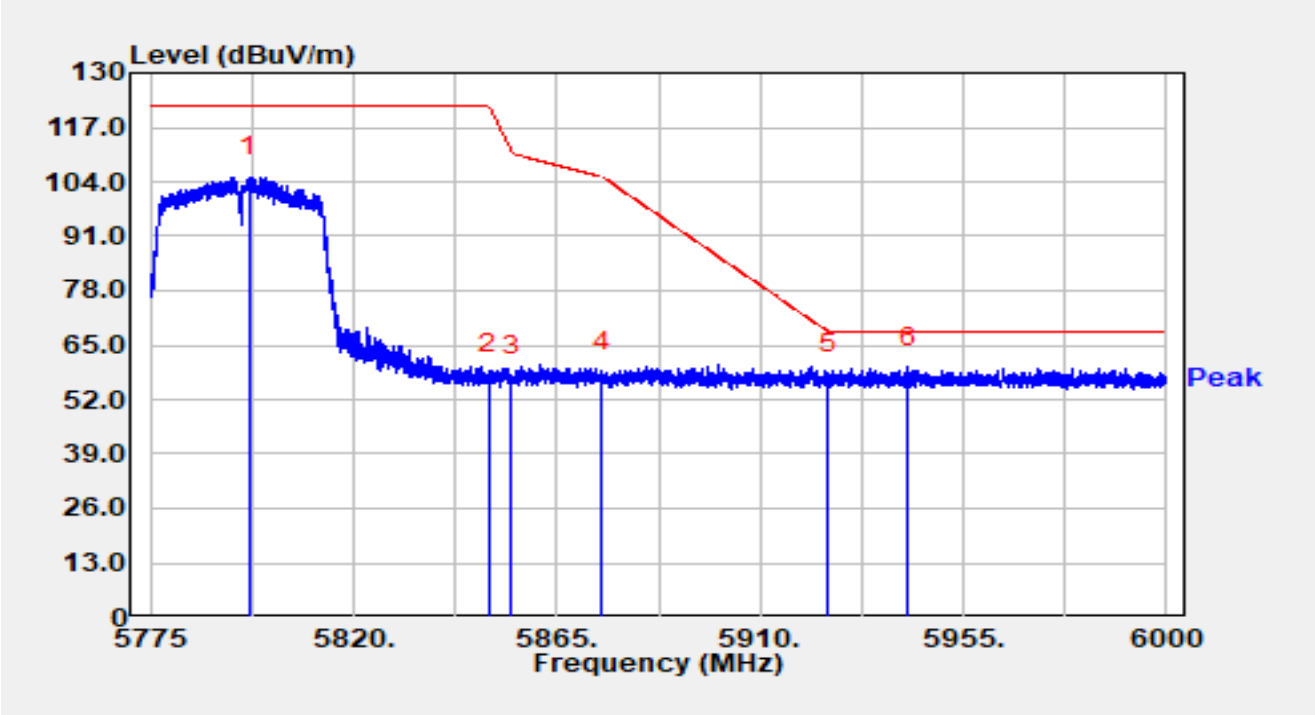
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT40 at 5795MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5797.005	87.92	17.30	105.22	N/A	N/A	Peak
2		5850.000	40.58	17.31	57.89	-64.31	122.20	Peak
3		5855.000	40.36	17.32	57.68	-53.12	110.80	Peak
4		5875.000	41.32	17.38	58.69	-46.51	105.20	Peak
5		5925.000	40.66	17.36	58.02	-10.18	68.20	Peak
6	*	5942.783	42.40	17.43	59.83	-8.37	68.20	Peak

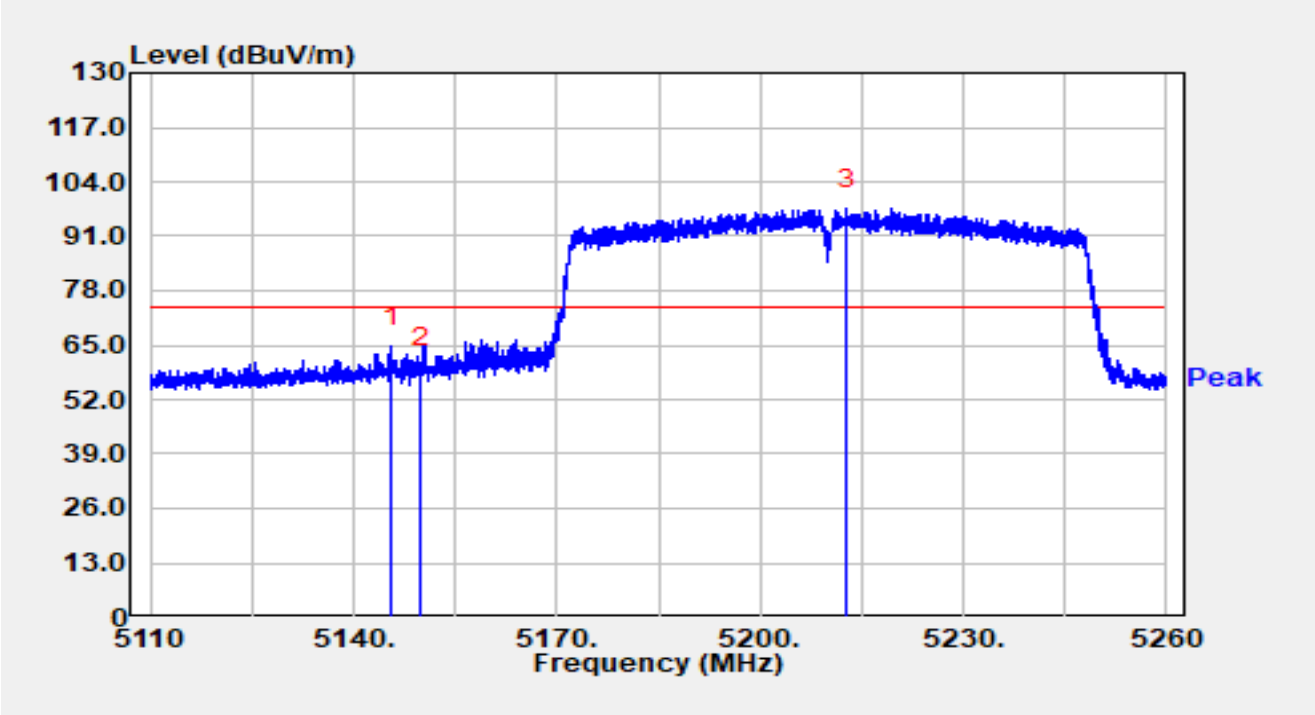
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5210MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5145.595	48.64	15.99	64.63	-9.37	74.00	Peak
2		5150.000	43.69	16.00	59.68	-14.32	74.00	Peak
3		5212.795	81.59	15.87	97.47	N/A	N/A	Peak

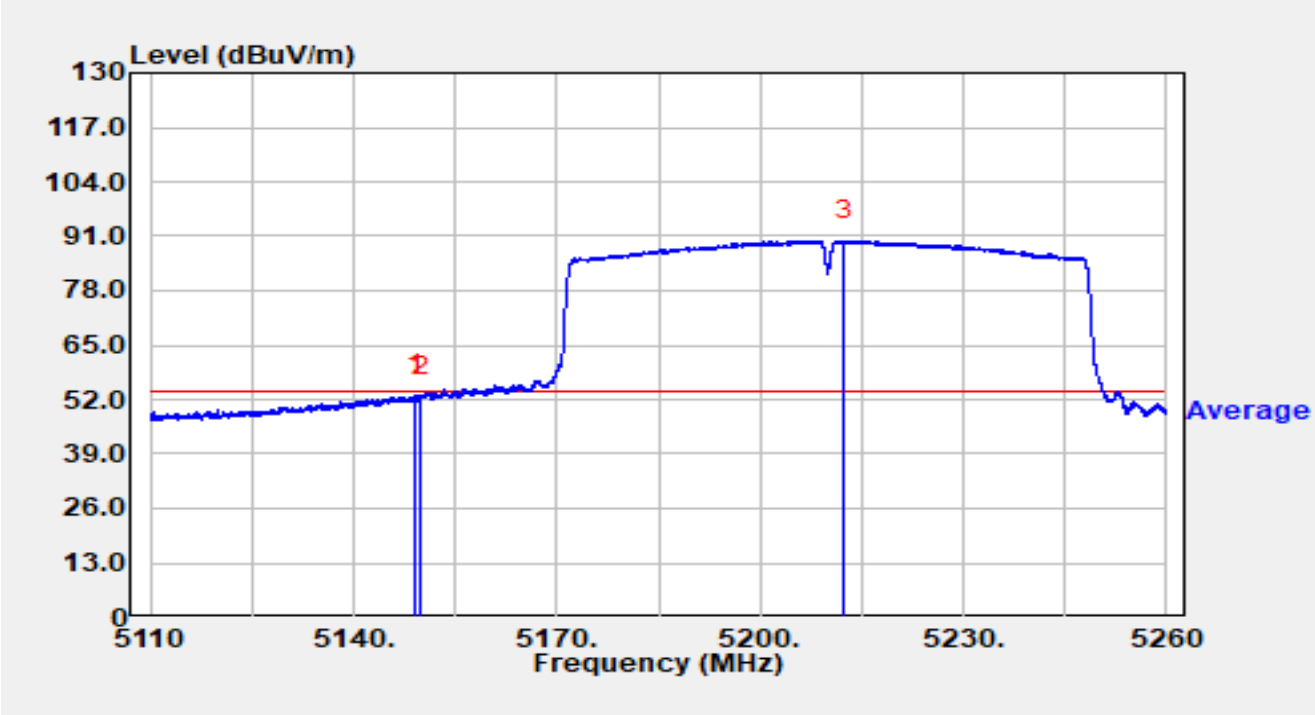
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5210MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5149.075	37.10	16.00	53.10	-0.90	54.00	Average
2		5150.000	36.53	16.00	52.52	-1.48	54.00	Average
3		5212.450	74.08	15.88	89.95	N/A	N/A	Average

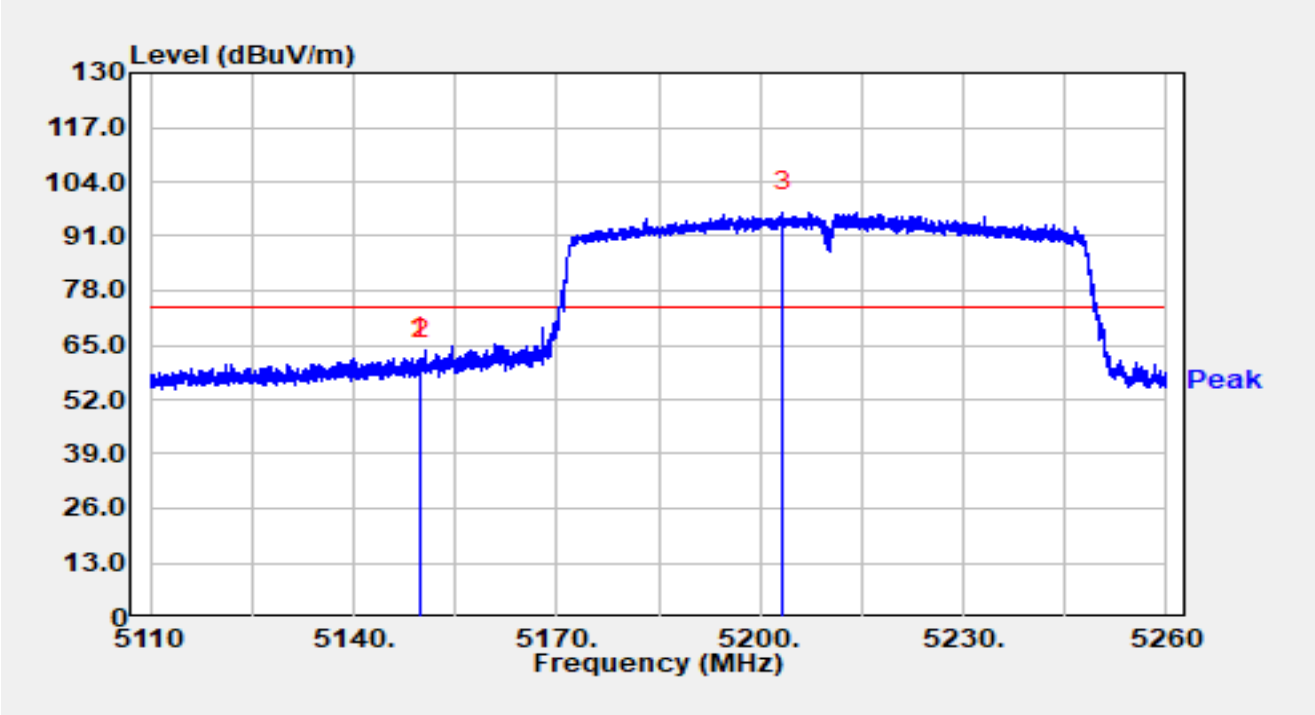
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5210MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5149.810	45.96	16.00	61.96	-12.04	74.00	Peak
2		5150.000	45.52	16.00	61.52	-12.48	74.00	Peak
3		5203.285	80.72	15.95	96.67	N/A	N/A	Peak

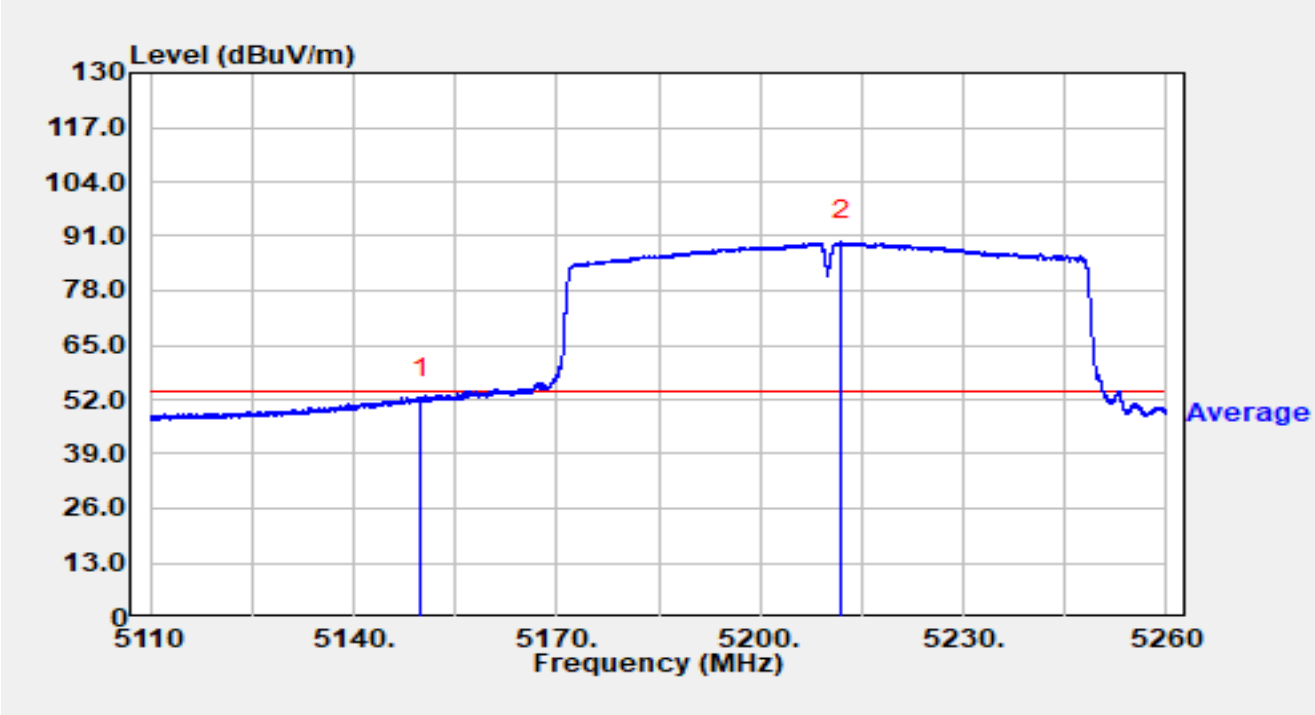
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5210MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5150.000	36.43	16.00	52.43	-1.57	54.00	Average
2		5211.925	74.01	15.88	89.89	N/A	N/A	Average

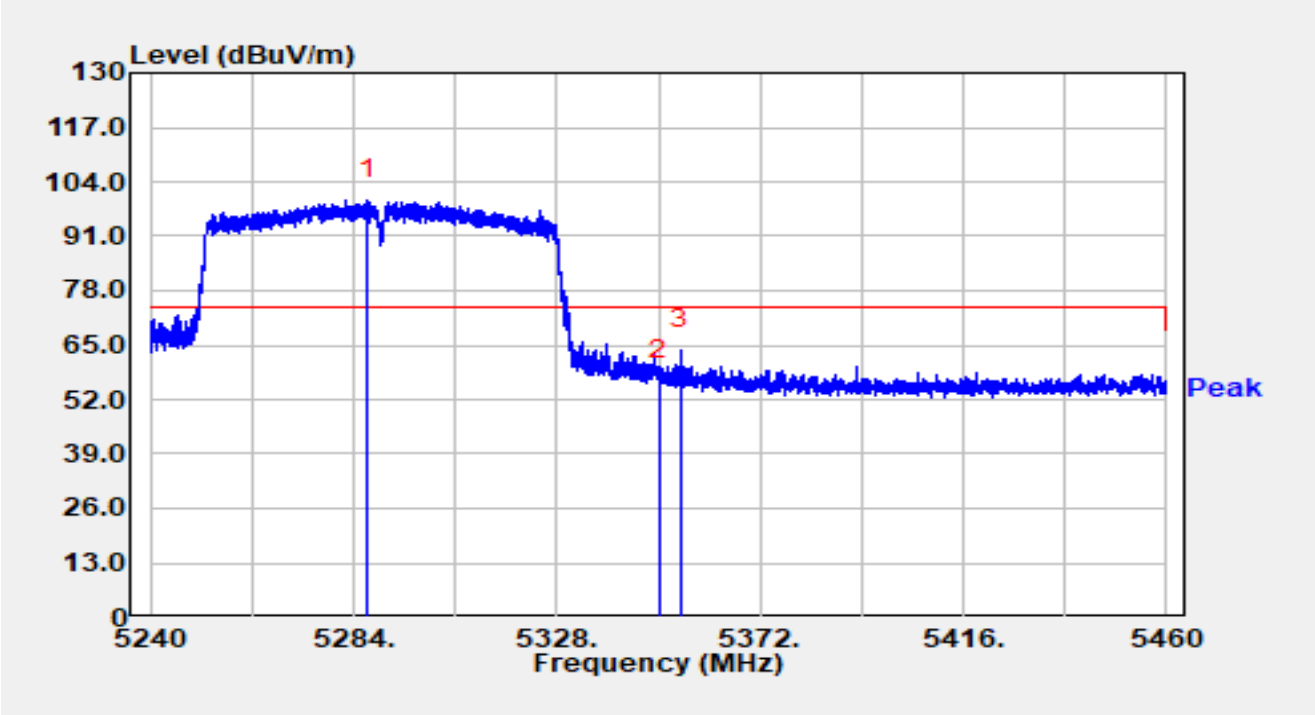
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5290MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5287.124	84.01	15.78	99.79	N/A	N/A	Peak
2		5350.000	41.14	15.68	56.82	-17.18	74.00	Peak
3	*	5354.840	48.25	15.67	63.91	-10.09	74.00	Peak

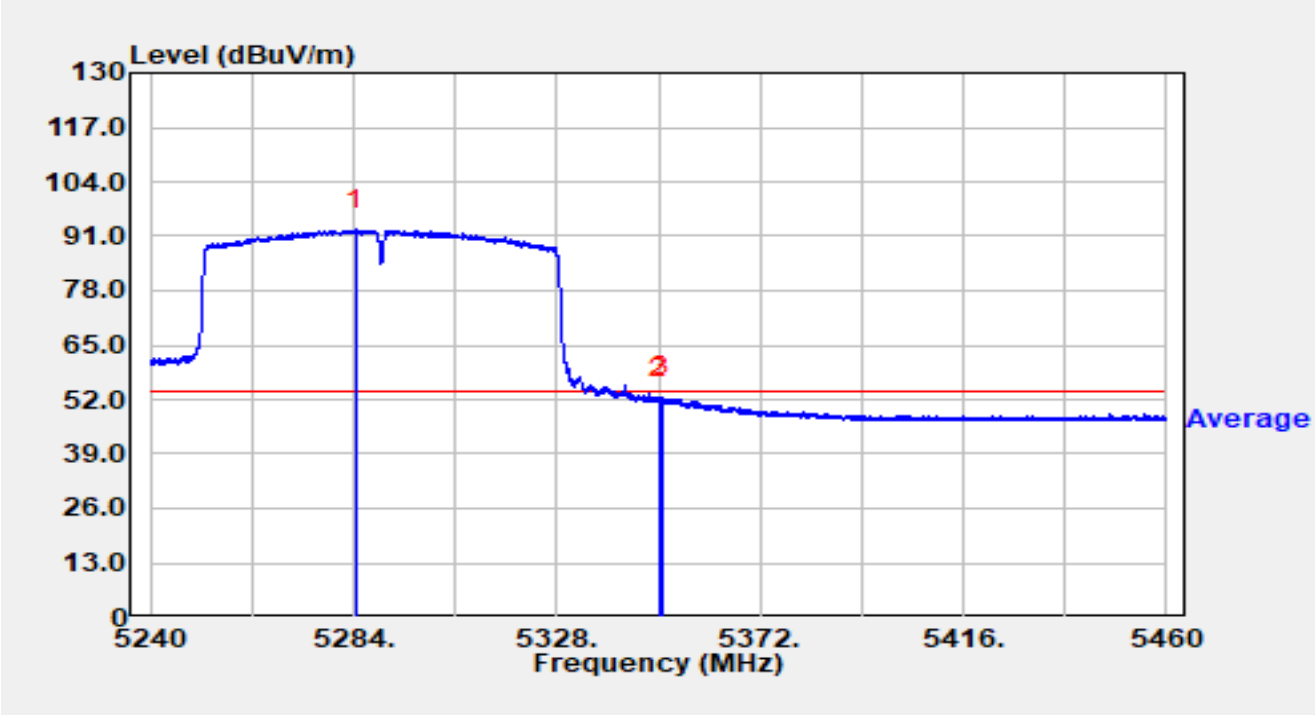
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5290MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5284.506	76.74	15.78	92.52	N/A	N/A	Average
2		5350.000	36.48	15.68	52.16	-1.84	54.00	Average
3	*	5350.616	37.00	15.68	52.68	-1.32	54.00	Average

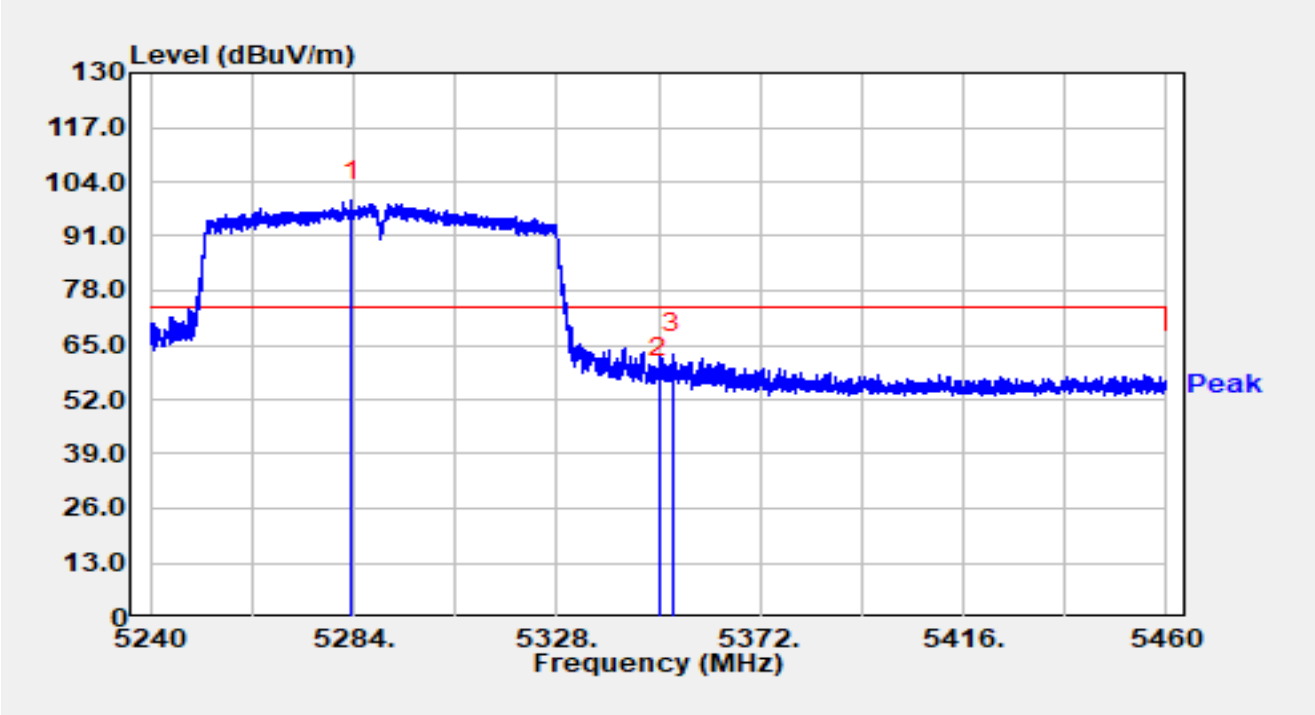
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5290MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5283.472	83.77	15.78	99.55	N/A	N/A	Peak
2		5350.000	41.31	15.68	56.99	-17.01	74.00	Peak
3	*	5352.970	47.20	15.67	62.87	-11.13	74.00	Peak

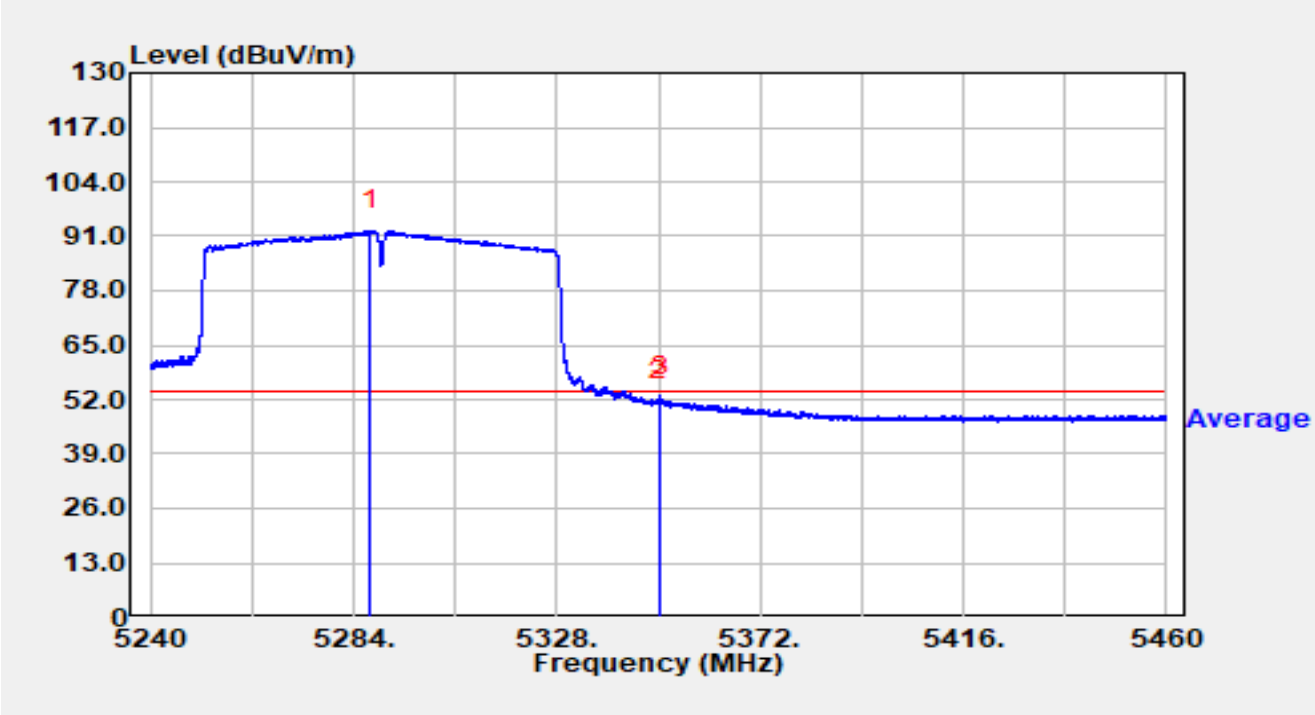
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5290MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5287.520	76.51	15.78	92.29	N/A	N/A	Average
2		5350.000	36.29	15.68	51.97	-2.03	54.00	Average
3	*	5350.418	37.12	15.68	52.80	-1.20	54.00	Average

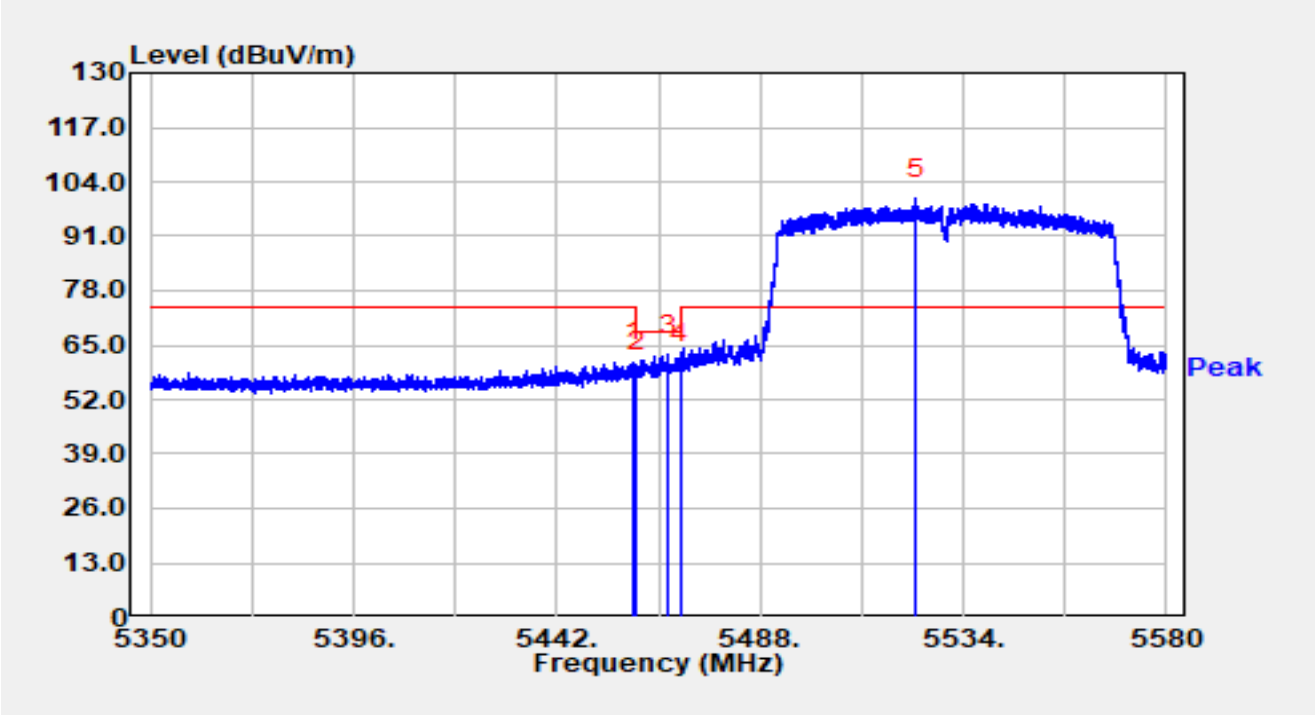
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5530MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5459.503	45.04	16.02	61.07	-12.93	74.00	Peak
2		5460.000	42.55	16.02	58.57	-9.63	68.20	Peak
3	*	5467.139	46.68	15.99	62.67	-5.53	68.20	Peak
4		5470.000	44.43	15.98	60.41	-7.79	68.20	Peak
5		5523.328	83.68	16.16	99.84	N/A	N/A	Peak

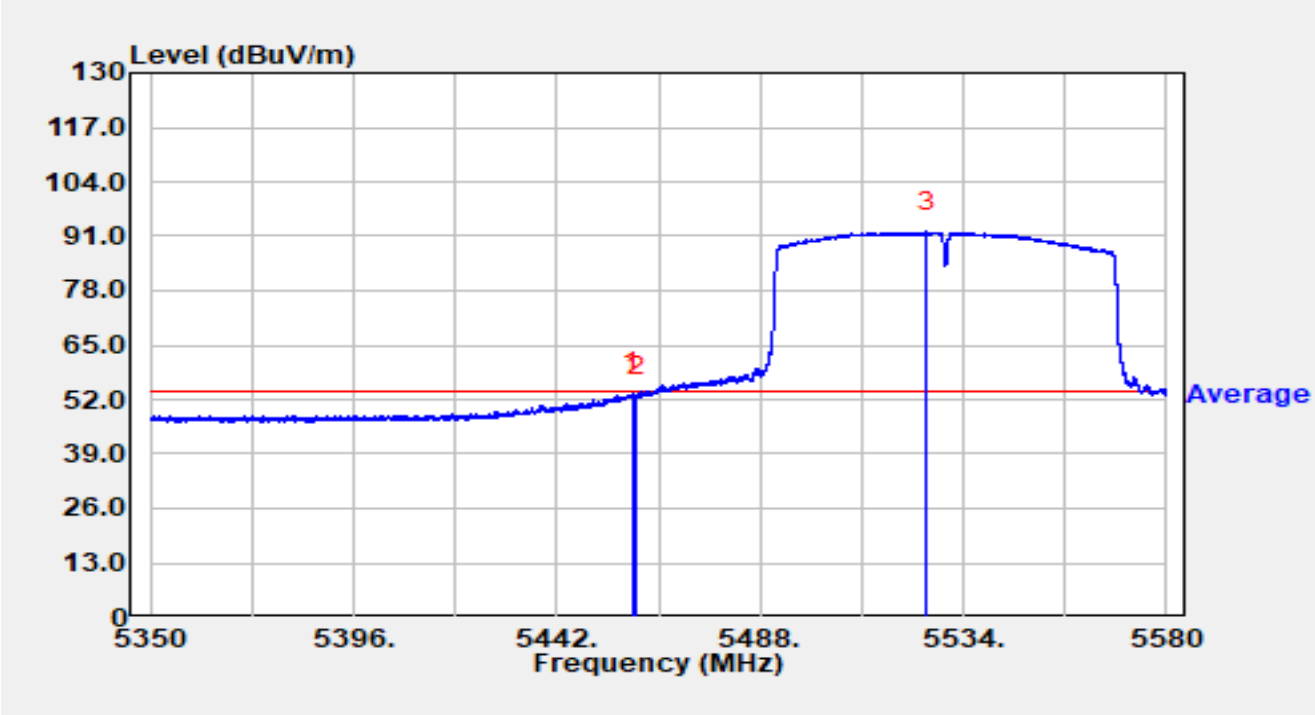
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5530MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5459.135	37.47	16.03	53.49	-0.51	54.00	Average
2		5460.000	36.85	16.02	52.87	-1.13	54.00	Average
3		5525.812	75.83	16.16	91.98	N/A	N/A	Average

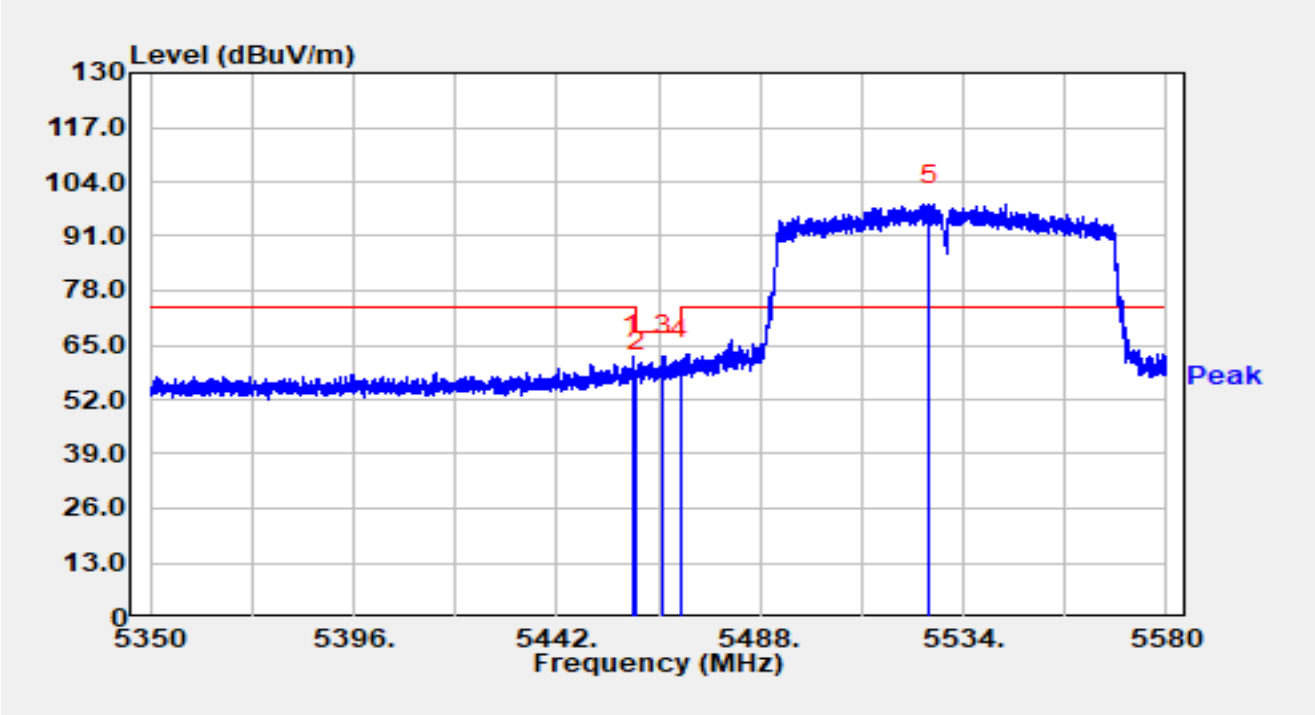
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5530MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5459.135	46.40	16.03	62.43	-11.57	74.00	Peak
2		5460.000	42.68	16.02	58.70	-9.50	68.20	Peak
3	*	5466.196	46.32	16.00	62.31	-5.89	68.20	Peak
4		5470.000	45.36	15.98	61.34	-6.86	68.20	Peak
5		5526.226	82.42	16.16	98.58	N/A	N/A	Peak

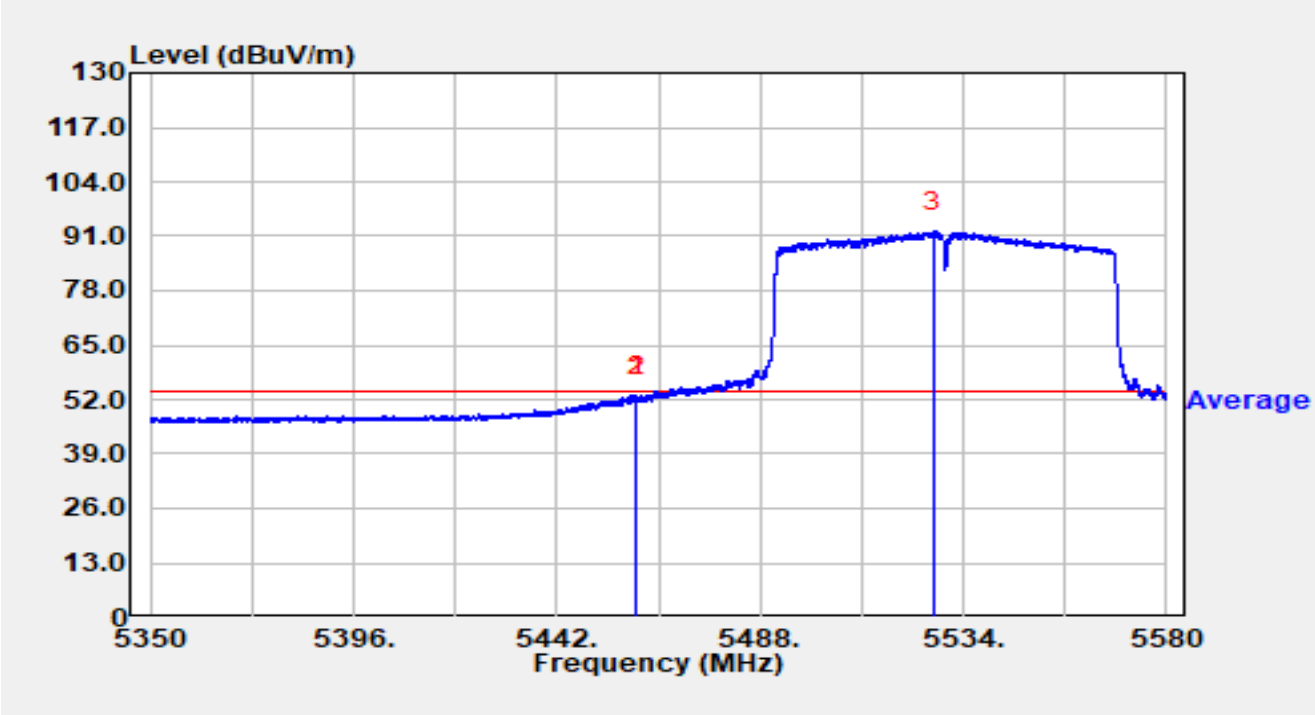
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5530MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5459.894	36.81	16.02	52.83	-1.17	54.00	Average
2		5460.000	36.50	16.02	52.53	-1.47	54.00	Average
3		5527.284	75.98	16.16	92.14	N/A	N/A	Average

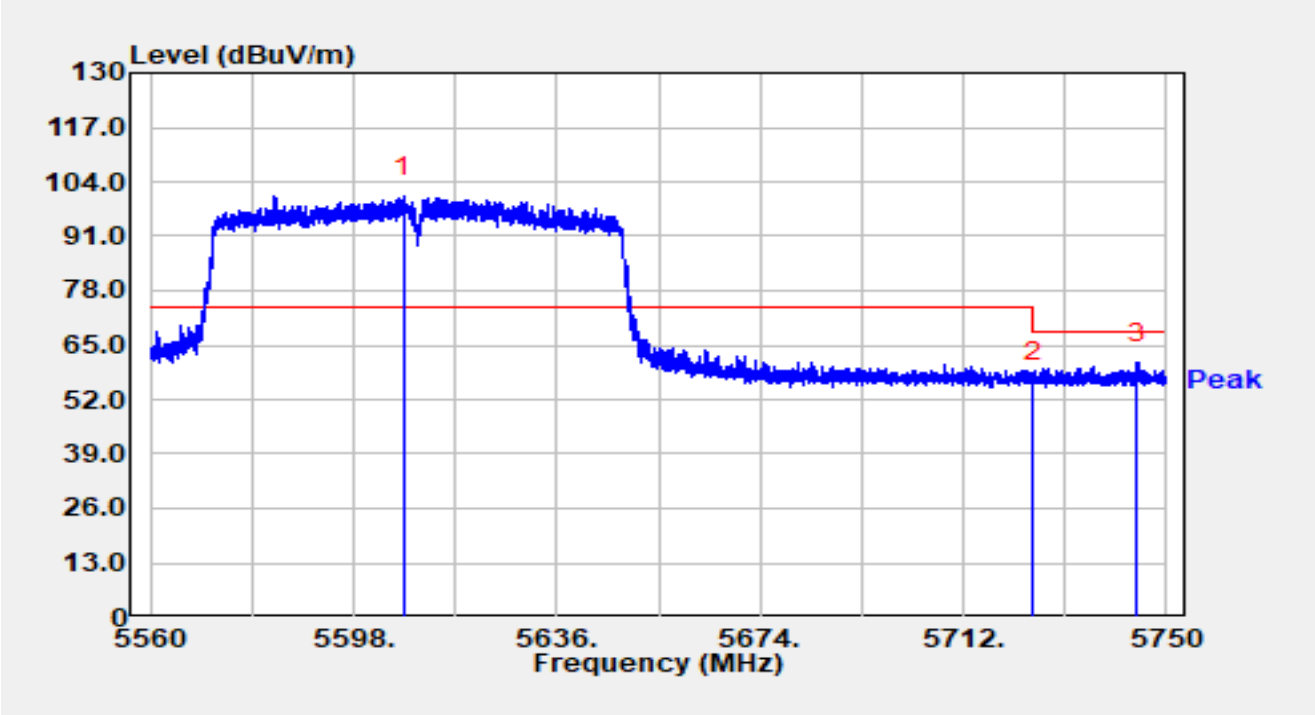
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5610MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5607.272	84.11	16.45	100.55	N/A	N/A	Peak
2		5725.000	39.38	16.92	56.30	-11.90	68.20	Peak
3	*	5744.585	43.77	16.96	60.73	-7.47	68.20	Peak

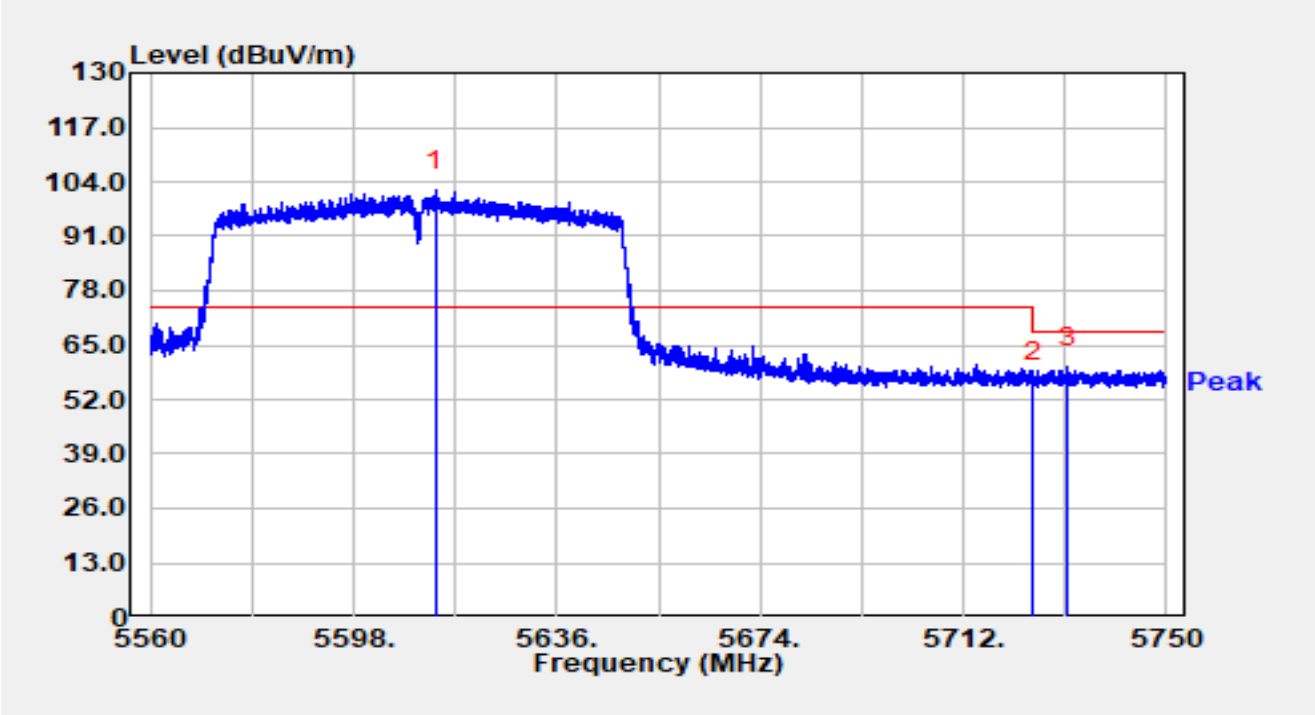
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5610MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5613.314	85.55	16.46	102.02	N/A	N/A	Peak
2		5725.000	39.21	16.92	56.14	-12.06	68.20	Peak
3	*	5731.589	42.82	16.94	59.76	-8.44	68.20	Peak

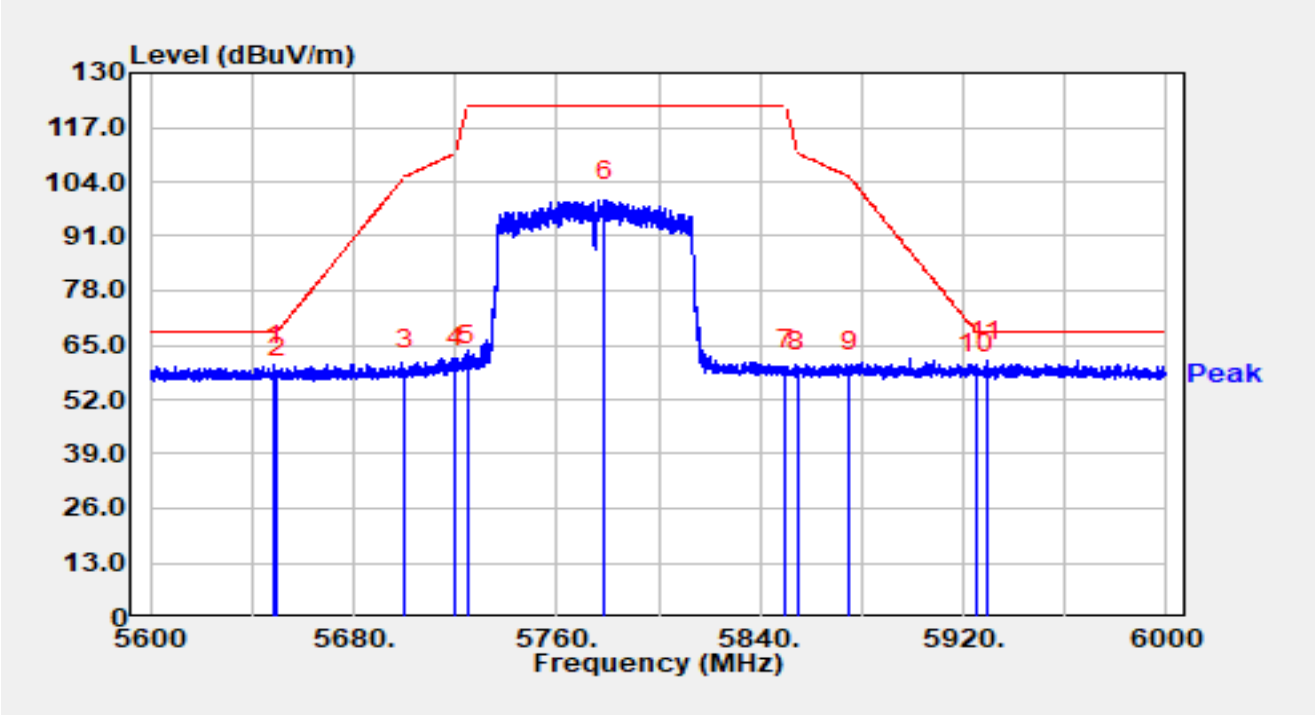
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5775MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5648.680	43.46	16.65	60.11	-8.09	68.20	Peak
2		5650.000	40.55	16.65	57.20	-11.00	68.20	Peak
3		5700.000	42.50	16.81	59.31	-45.89	105.20	Peak
4		5720.000	42.46	16.90	59.37	-51.43	110.80	Peak
5		5725.000	43.28	16.92	60.21	-61.99	122.20	Peak
6		5778.520	82.32	17.18	99.49	N/A	N/A	Peak
7		5850.000	41.67	17.31	58.99	-63.21	122.20	Peak
8		5855.000	41.49	17.32	58.82	-51.98	110.80	Peak
9		5875.000	41.34	17.38	58.72	-46.48	105.20	Peak
10		5925.000	40.77	17.36	58.14	-10.06	68.20	Peak
11	*	5929.080	43.93	17.38	61.31	-6.89	68.20	Peak

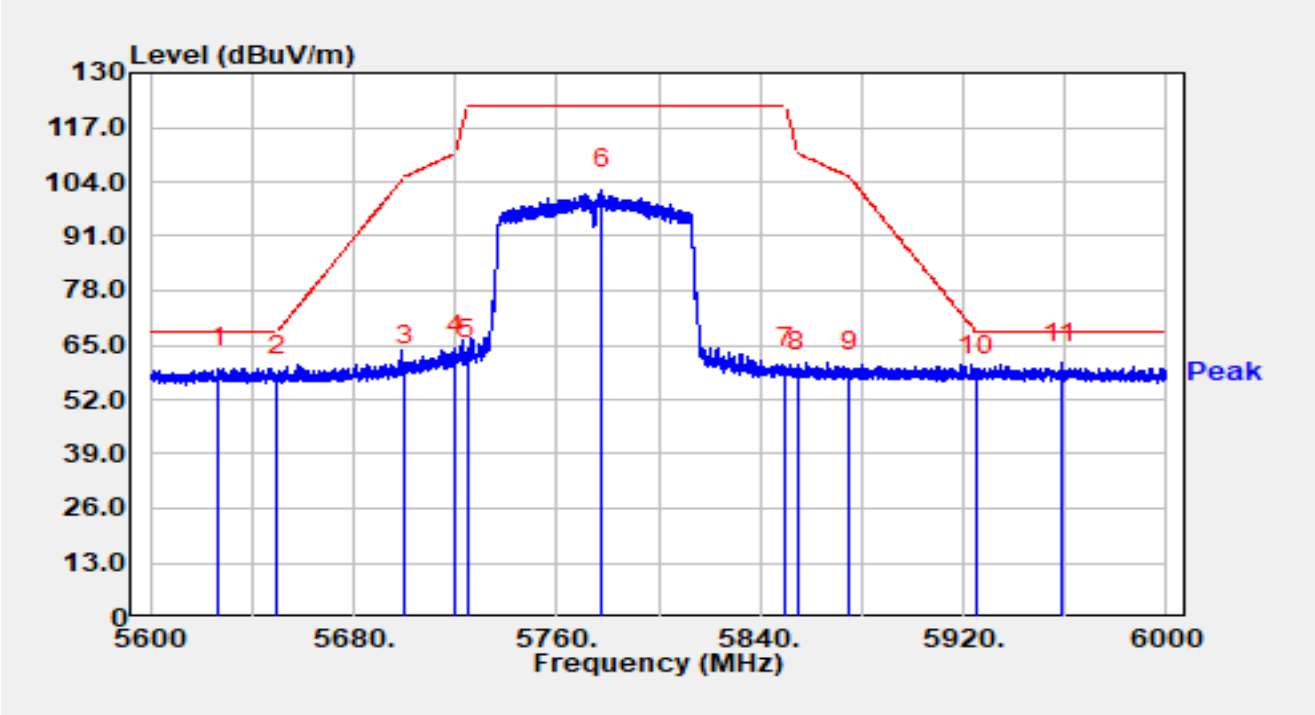
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Site	WJ-AC2	Test Date	2025-01-21
Temperature	15.6°C	Humidity	30.1%
Limit	FCC_Part 15.407_Band Edge(3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Barcode Reader	Test Voltage	By Battery
Test Mode	Transmit by 802.11ac-VHT80 at 5775MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5626.720	42.94	16.53	59.47	-8.73	68.20	Peak
2		5650.000	40.75	16.65	57.40	-10.80	68.20	Peak
3		5700.000	43.27	16.81	60.08	-45.12	105.20	Peak
4		5720.000	45.88	16.90	62.78	-48.02	110.80	Peak
5		5725.000	44.89	16.92	61.81	-60.39	122.20	Peak
6		5777.520	84.88	17.17	102.05	N/A	N/A	Peak
7		5850.000	42.16	17.31	59.47	-62.73	122.20	Peak
8		5855.000	41.25	17.32	58.57	-52.23	110.80	Peak
9		5875.000	41.46	17.38	58.83	-46.37	105.20	Peak
10		5925.000	40.25	17.36	57.61	-10.59	68.20	Peak
11	*	5958.560	43.26	17.46	60.73	-7.47	68.20	Peak

Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) - AMP (dB).

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

Appendix B – Test Setup Photograph

Refer to “2412RSU067-UT” file.

Appendix C – EUT Photograph

Refer to “2412RSU067-UE” file.

The End