

# TEST REPORT

**Product Name** : MINI PC  
**Brand Name** : N/A  
**Model** : MS-03-S386H  
**Series Model** : See page 6  
**FCC ID** : 2A49R-MS-03-S386H  
**Applicant** : MICRO COMPUTER (HK) TECH LIMITED  
**Address** : RM 18, 28/F, Shui On Centre, 6-8 Harbour Road, WaterfRont,  
Wan Chai, HK  
**Manufacturer** : MICRO COMPUTER (HK) TECH LIMITED  
**Address** : RM 18, 28/F, Shui On Centre, 6-8 Harbour Road, WaterfRont,  
Wan Chai, HK  
**Standard(s)** : FCC CFR Title 47 Part 15 Subpart E Section 15.407  
**Date of Receipt** : April 29, 2026  
**Date of Test** : April 29, 2026~ June 22, 2026  
**Issued Date** : June 23, 2026

**Issued By:** **Dongguan Yaxu (AiT) Technology Limited**  
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Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Dongguan Yaxu (AiT) Technology Limited. If there is a need to alter or revise this document, the right belongs to Dongguan Yaxu (AiT) Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.



**Report Revise Record**

| Report Version | Issued Date   | Notes           |
|----------------|---------------|-----------------|
| M0             | June 23, 2026 | Initial Release |

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# 1 TEST SUMMARY

## 1.1 Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15 Subpart E](#)—Unlicensed National Information Infrastructure Devices.

[ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB789033 D02](#): General UNII Test Procedures New Rules v02r01.

[KDB 662911 D01 Multiple Transmitter Output v02r01](#).

[KDB 291074 D02 EMC Measurement v01](#)

## 1.2 Test Summary

| FCC Requirement                                                              |                                           |       |
|------------------------------------------------------------------------------|-------------------------------------------|-------|
| FCC Part 15.207                                                              | AC Power Conducted Emission               | PASS  |
| FCC Part 15.407(a)                                                           | Emission Bandwidth(26dB Bandwidth)        | PASS* |
| FCC Part 15.407(e)                                                           | Minimum Emission Bandwidth(6dB Bandwidth) | PASS* |
| FCC Part 15.407(a)                                                           | Maximum Conducted Output Power            | PASS* |
| FCC Part 15.407(a)                                                           | Peak Power Spectral Density               | PASS* |
| FCC Part 15.407(g)                                                           | Frequency Stability                       | PASS* |
| FCC Part 15.407(b)/15.205/15.209                                             | Unwanted Radiated Emissions               | PASS  |
| FCC Part 15.407(h)                                                           | Dynamic Frequency Selection               | PASS* |
| FCC Part 15.203                                                              | Antenna Requirement                       | PASS  |
| Note: * means that this item refers to module report for FCC ID:PD9BE211NGW. |                                           |       |

### 1.3 Test Facility

#### Test Laboratory: Dongguan Yaxu (AiT) Technology Limited

No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan, Guangdong, China

The test facility is recognized, certified or accredited by the following organizations:

#### CNAS-Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2017 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on April 18, 2022

#### FCC-Registration No.: 703111 Designation Number: CN1313

Dongguan Yaxu (AiT) Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

#### IC-Registration No.: 6819A CAB identifier: CN0122

The 3m Semi-anechoic chamber of Dongguan Yaxu (AiT) Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 6819A

#### A2LA-Lab Cert. No.: 6317.01

Dongguan Yaxu (AiT) Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

### 1.4 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16 - 4"Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Dongguan Yaxu (AiT) Technology Limited's quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Yaxu (AiT) laboratory is reported:

| Test                          | Measurement Uncertainty    | Notes |
|-------------------------------|----------------------------|-------|
| Power Line Conducted Emission | 9KHz~30MHz $\pm 1.20$ dB   | (1)   |
| Radiated Emission             | 9KHz~30MHz $\pm 3.10$ dB   | (1)   |
| Radiated Emission             | 30MHz~1GHz $\pm 3.75$ dB   | (1)   |
| Radiated Emission             | 1GHz~18GHz $\pm 3.88$ dB   | (1)   |
| Radiated Emission             | 18GHz-40GHz $\pm 3.88$ dB  | (1)   |
| RF power, conducted           | 30MHz~7.5GHz $\pm 0.16$ dB | (1)   |
| RF power density, conducted   | $\pm 0.24$ dB              | (1)   |
| Spurious emissions, conducted | $\pm 0.21$ dB              | (1)   |
| Temperature                   | $\pm 1^{\circ}\text{C}$    | (1)   |
| Humidity                      | $\pm 3\%$                  | (1)   |
| DC and low frequency voltages | $\pm 1.5\%$                | (1)   |
| Time                          | $\pm 2\%$                  | (1)   |
| Duty cycle                    | $\pm 2\%$                  | (1)   |

The report uncertainty of measurement  $y \pm U$ , where expanded uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

## 2 GENERAL INFORMATION

### 2.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

|                     |         |
|---------------------|---------|
| Normal Temperature: | 25°C    |
| Relative Humidity:  | 55 %    |
| Air Pressure:       | 101 kPa |

### 2.2 General Description of EUT

|                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                             |                                                              |                                                                |                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|----------------------------------|
| Product Name:                                                                                                                                                                                                                                                       | MINI PC                                                                                                                                                                                                                                                                                                                                                                     |                                                              |                                                                |                                  |
| Model/Type reference:                                                                                                                                                                                                                                               | MS-03-S386H                                                                                                                                                                                                                                                                                                                                                                 |                                                              |                                                                |                                  |
| Serial Model:                                                                                                                                                                                                                                                       | MS-03-S**** (where*="0-9","A-Z""a-z", ". ", blank space, no character difference between each model is only due to the different model naming methods for different sales regions, other circuit principles, safety structures and key components are all the same, and the difference not affect the safety and electromagnetic compatibility performance of the product.) |                                                              |                                                                |                                  |
| Power Ratings:                                                                                                                                                                                                                                                      | Input: 19V=12.63A                                                                                                                                                                                                                                                                                                                                                           |                                                              |                                                                |                                  |
| Adapter information:                                                                                                                                                                                                                                                | Model: SOY-1901263-244-B<br>Input: 100-240V~ 50/60Hz 3.0A Max.<br>Output: 19.0V=12.63A 239.97W                                                                                                                                                                                                                                                                              |                                                              |                                                                |                                  |
| Hardware Version:                                                                                                                                                                                                                                                   | N/A                                                                                                                                                                                                                                                                                                                                                                         |                                                              |                                                                |                                  |
| Software Version:                                                                                                                                                                                                                                                   | N/A                                                                                                                                                                                                                                                                                                                                                                         |                                                              |                                                                |                                  |
| Sample(s) Status:                                                                                                                                                                                                                                                   | AiTDG-260429021-1(Normal sample)<br>AiTDG-260429021-2(Engineer sample)                                                                                                                                                                                                                                                                                                      |                                                              |                                                                |                                  |
| 5G WIFI:                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                             |                                                              |                                                                |                                  |
| Supported type:                                                                                                                                                                                                                                                     | 20MHz system                                                                                                                                                                                                                                                                                                                                                                | 40MHz system                                                 | 80MHz system                                                   | 160MHz system                    |
|                                                                                                                                                                                                                                                                     | 802.11a<br>802.11n<br>802.11ac<br>802.11ax<br>802.11be                                                                                                                                                                                                                                                                                                                      | 802.11n<br>802.11ac<br>802.11ax<br>802.11be                  | 802.11ac<br>802.11ax<br>802.11be                               | 802.11ac<br>802.11ax<br>802.11be |
| Operation frequency:                                                                                                                                                                                                                                                | 5180-5240MHz<br>5260-5320MHz<br>5500-5700MHz<br>5745-5825MHz                                                                                                                                                                                                                                                                                                                | 5190-5230MHz<br>5270-5310MHz<br>5510-5670MHz<br>5755-5795MHz | 5210MHz<br>5290MHz<br>5530MHz<br>5610MHz<br>5690MHz<br>5775MHz | 5250MHz<br>5570MHz               |
| Modulation:                                                                                                                                                                                                                                                         | OFDM/OFDMA                                                                                                                                                                                                                                                                                                                                                                  | OFDM/OFDMA                                                   | OFDM/OFDMA                                                     | OFDM/OFDMA                       |
| Channel number:                                                                                                                                                                                                                                                     | 25                                                                                                                                                                                                                                                                                                                                                                          | 12                                                           | 6                                                              | 2                                |
| Channel separation:                                                                                                                                                                                                                                                 | 20MHz                                                                                                                                                                                                                                                                                                                                                                       | 40MHz                                                        | 80MHz                                                          | 160MHz                           |
| MIMO                                                                                                                                                                                                                                                                | Support MIMO 2*2                                                                                                                                                                                                                                                                                                                                                            |                                                              |                                                                |                                  |
| Antenna type:                                                                                                                                                                                                                                                       | FPC Antenna MIMO 2*2                                                                                                                                                                                                                                                                                                                                                        |                                                              |                                                                |                                  |
| Antenna gain:                                                                                                                                                                                                                                                       | Antenna 1(A): 3.74Bi, Antenna 2(B):3.85dBi                                                                                                                                                                                                                                                                                                                                  |                                                              |                                                                |                                  |
| Remark:                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                             |                                                              |                                                                |                                  |
| 1. The device used tow antenna and all transmit signals are completely uncorrelated with each other,<br>Directional gain =10*log[(10 <sup>G1/10</sup> +10 <sup>G2/10</sup> )/N <sub>ANT</sub> ]=10*log[(10 <sup>3.36/10</sup> +10 <sup>3.73/10</sup> )/2]= 3.80dBi. |                                                                                                                                                                                                                                                                                                                                                                             |                                                              |                                                                |                                  |

2. The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## 2.3 Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

All test performed at the low, middle and high of operational frequency range of each mode.

### .Operation Frequency List:

| Operating band                | 20MHz   |                 | 40MHz   |                 | 80MHz   |                 | 160MHz  |                 |  |  |
|-------------------------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|--|--|
|                               | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |  |  |
| U-NII 1<br>(5150MHz-5250MHz)  | 36      | 5180            | 38      | 5190            | 42      | 5210            | 50*     | 5250            |  |  |
|                               | 40      | 5200            |         |                 |         |                 |         |                 |  |  |
|                               | 44      | 5220            | 46      | 5230            |         |                 |         |                 |  |  |
|                               | 48      | 5240            |         |                 |         |                 |         |                 |  |  |
| U-NII 2A<br>(5120MHz-5350MHz) | 52      | 5260            | 54      | 5270            | 58      | 5290            |         |                 |  |  |
|                               | 56      | 5280            |         |                 |         |                 |         |                 |  |  |
|                               | 60      | 5300            | 62      | 5310            |         |                 |         |                 |  |  |
|                               | 64      | 5320            |         |                 |         |                 |         |                 |  |  |
| U-NII 2C<br>(5470MHz-5725MHz) | 100     | 5500            | 102     | 5510            | 106     | 5530            | 114     | 5570            |  |  |
|                               | 104     | 5520            |         |                 |         |                 |         |                 |  |  |
|                               | 108     | 5540            | 110     | 5550            |         |                 |         |                 |  |  |
|                               | 112     | 5560            |         |                 |         |                 |         |                 |  |  |
|                               | 116     | 5580            | 118     | 5590            | 122     | 5610            |         |                 |  |  |
|                               | 120     | 5600            |         |                 |         |                 |         |                 |  |  |
|                               | 124     | 5620            | 126     | 5630            |         |                 |         |                 |  |  |
|                               | 128     | 5640            |         |                 |         |                 |         |                 |  |  |
|                               | 132     | 5660            | 134     | 5670            | --      | --              | --      | --              |  |  |
|                               | 136     | 5680            |         |                 |         |                 | --      | --              |  |  |
|                               | 140     | 5700            | --      | --              |         |                 | --      | --              |  |  |
|                               | --      | --              |         |                 |         |                 | --      | --              |  |  |
| U-NII 3<br>(5725MHz-5850MHz)  | 149     | 5745            | 151     | 5755            | 155     | 5775            | --      | --              |  |  |
|                               | 153     | 5765            |         |                 |         |                 | --      | --              |  |  |
|                               | 157     | 5785            | 159     | 5795            |         |                 | --      | --              |  |  |
|                               | 161     | 5805            |         |                 |         |                 | --      | --              |  |  |
|                               | 165     | 5825            | --      | --              | --      | --              | --      | --              |  |  |

Note:

1. "--" Means no channel(s) available any more.
2. "\*\*\*"Straddle channel.
3. The line display in grey is those Channels/Frequencies select to test in this report for each operation mode.

### Data Rate Used:

All test items were preliminary test with different data rate to find the worst radiated emission.

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

| Mode     | Preliminary Data Rate | Worst-case Data Rate |
|----------|-----------------------|----------------------|
| 802.11a  | 6Mbps ~ 54Mbps        | 6Mbps                |
| 802.11n  | MCS0 ~ MCS15          | MCS8                 |
| 802.11ac | MCS0 ~ MCS9           | MCS0                 |
| 802.11ax | MCS0~ MCS11           | MCS0                 |
| 802.11be | MCS0~ MCS13           | MCS0                 |

## Power setting during the test:

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters:

| Test Software Version | DRTU    |         |         |
|-----------------------|---------|---------|---------|
| Test Frequency        | Lowest  | Middle  | Highest |
| U-NII Band 1          | Default | Default | Default |
| U-NII Band 2A         | Default | Default | Default |
| U-NII Band 2C         | Default | Default | Default |
| U-NII Band 3          | Default | Default | Default |

## 2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

| Description | Manufacturer | Model | Serial No. | Provided by | Other |
|-------------|--------------|-------|------------|-------------|-------|
| /           | /            | /     | /          | /           | /     |
| /           | /            | /     | /          | /           | /     |
| /           | /            | /     | /          | /           | /     |
| /           | /            | /     | /          | /           | /     |

## 2.5 Equipment List for the Test

| Conducted Emission measurement        |                   |              |           |             |            |            |
|---------------------------------------|-------------------|--------------|-----------|-------------|------------|------------|
| Item                                  | Test Equipment    | Manufacturer | Model No. | Serial No.  | Last Cal.  | Cal.Due    |
| <input checked="" type="checkbox"/> 1 | EMI Test Receiver | R&S          | ESCI      | 100124      | 2025.09.25 | 2026.09.24 |
| <input checked="" type="checkbox"/> 2 | LISN              | R&S          | ESH3-Z5   | 892785/016  | 2025.09.26 | 2026.09.25 |
| <input checked="" type="checkbox"/> 3 | LISN              | KYORITSU     | KNW-242   | 8-837-4     | 2025.09.26 | 2026.09.25 |
| <input checked="" type="checkbox"/> 4 | Pulse Limiter     | R&S          | ESH3-Z2   | 03578810.54 | 2025.09.25 | 2026.09.24 |
| <input checked="" type="checkbox"/> 5 | CE Software       | EZ           | EZ-EMC_CE | Ver.AIT-03A | N/A        | N/A        |

| Radiation Emission measurement         |                                     |              |                       |               |            |            |
|----------------------------------------|-------------------------------------|--------------|-----------------------|---------------|------------|------------|
| Item                                   | Test Equipment                      | Manufacturer | Model No.             | Serial No.    | Last Cal.  | Cal.Due    |
| <input checked="" type="checkbox"/> 1  | Spectrum Analyzer                   | R&S          | FSV40                 | 101470        | 2025.09.26 | 2026.09.25 |
| <input checked="" type="checkbox"/> 2  | EMI Measuring Receiver              | R&S          | ESPI                  | 100773        | 2025.09.25 | 2026.09.24 |
| <input checked="" type="checkbox"/> 3  | Low Noise Pre Amplifier             | HP           | HP8447E               | 1937A01855    | 2025.09.25 | 2026.09.24 |
| <input checked="" type="checkbox"/> 4  | Low Noise Pre Amplifier             | Tsj          | MLA-0120-A02-34       | 2648A04738    | 2025.09.25 | 2026.09.24 |
| <input checked="" type="checkbox"/> 5  | Passive Loop                        | ETS          | 6512                  | 00165355      | 2024.09.04 | 2026.09.03 |
| <input checked="" type="checkbox"/> 6  | TRILOG Super Broadband test Antenna | SCHWARZBEC K | VULB-9160             | 9160-3206     | 2024.08.29 | 2026.08.28 |
| <input checked="" type="checkbox"/> 7  | Broadband Horn Antenna              | SCHWARZBEC K | BBHA 9120D            | 452           | 2024.08.29 | 2026.08.28 |
| <input checked="" type="checkbox"/> 8  | SHF-EHF Horn Antenna 15-40GHz       | SCHWARZBEC K | BBHA9170              | BBHA9170367   | 2023.09.12 | 2026.09.11 |
| <input checked="" type="checkbox"/> 9  | 6dB Attenuator                      | JFW          | 50FPE-006             | 4360846-949-1 | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 10 | Filter                              | COM-MW       | ZBSF6-C5150-5350-1049 | 1049          | 2025.09.23 | 2026.09.22 |

|                                        |                         |              |                       |             |            |            |
|----------------------------------------|-------------------------|--------------|-----------------------|-------------|------------|------------|
| <input checked="" type="checkbox"/> 11 | Filter                  | COM-MW       | ZBSF6-C5470-5725-1750 | 1750        | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 12 | Filter                  | COM-MW       | ZBSF6-C5725-5850-1627 | 1627        | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 13 | Radiated Cable(9K-1G)   | HUBER+SUHNER | 9K-1G                 | 001         | 2025.09.25 | 2026.09.24 |
| <input checked="" type="checkbox"/> 14 | Radiated Cable(1G-18G)  | HUBER+SUHNER | 1G-18G                | 002         | 2025.09.25 | 2026.09.24 |
| <input checked="" type="checkbox"/> 15 | Radiated Cable(18G-40G) | HUBER+SUHNER | 18G-40G               | 003         | 2025.09.25 | 2026.09.24 |
| <input checked="" type="checkbox"/> 16 | RE Software             | EZ           | EZ-EMC_RE             | Ver.AIT-03A | N/A        | N/A        |

### RF Conducted measurement

| Item                       | Test Equipment                      | Manufacturer | Model No.  | Serial No.  | Last Cal.  | Cal.Due    |
|----------------------------|-------------------------------------|--------------|------------|-------------|------------|------------|
| <input type="checkbox"/> 1 | Spectrum Analyzer                   | Agilent      | N9020A     | MY53421570  | 2025.09.23 | 2026.09.22 |
| <input type="checkbox"/> 2 | Power Sensor                        | Agilent      | U2021XA    | MY54110007  | 2025.09.23 | 2026.09.22 |
| <input type="checkbox"/> 3 | Signal Generator                    | Agilent      | N5182A     | MY50143009  | 2025.09.26 | 2026.09.25 |
| <input type="checkbox"/> 4 | Analog signal generator             | Agilent      | E8257      | MY51554256  | 2025.09.23 | 2026.09.22 |
| <input type="checkbox"/> 5 | Pro.Temp&Humi.chamber               | MENTEK       | MHP-150-1C | MAA08112501 | 2025.09.25 | 2026.09.24 |
| <input type="checkbox"/> 6 | Wideband Radio communication tester | R&S          | CMW500     | 135866      | 2025.09.23 | 2026.09.22 |
| <input type="checkbox"/> 7 | DC power supply                     | ZHAOXIN      | RXN-305D-2 | 28070002559 | N/A        | N/A        |
| <input type="checkbox"/> 8 | RF Test box                         | TST          | TSTPASS    | 21033016    | 2025.09.23 | 2026.09.22 |
| <input type="checkbox"/> 9 | RF Software                         | TST          | TSTPASS    | Version 2.0 | N/A        | N/A        |

Note: ☐ is not applicable in this Test Report. ☒ is applicable in this Test Report.

### 3 TEST CONDITIONS AND RESULTS

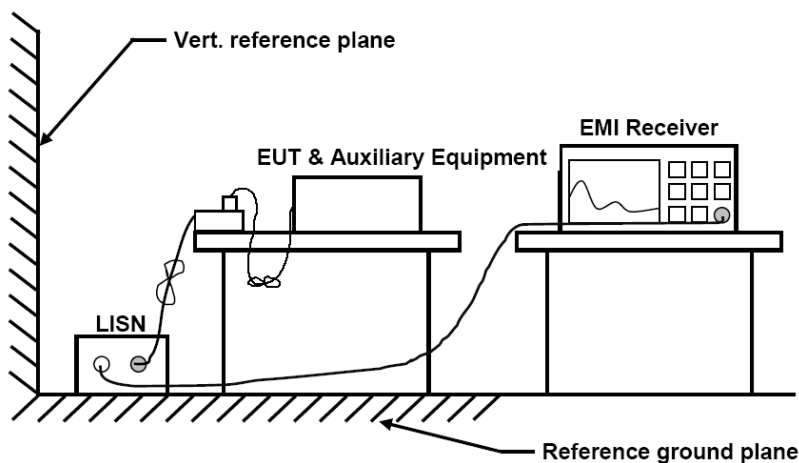
#### 3.1 Conducted Emissions Test

##### LIMIT

| Frequency range (MHz) | Limit (dBuV) |           |
|-----------------------|--------------|-----------|
|                       | Quasi-peak   | Average   |
| 0.15-0.5              | 66 to 56*    | 56 to 46* |
| 0.5-5                 | 56           | 46        |
| 5-30                  | 60           | 50        |

\* Decreases with the logarithm of the frequency.

##### TEST CONFIGURATION

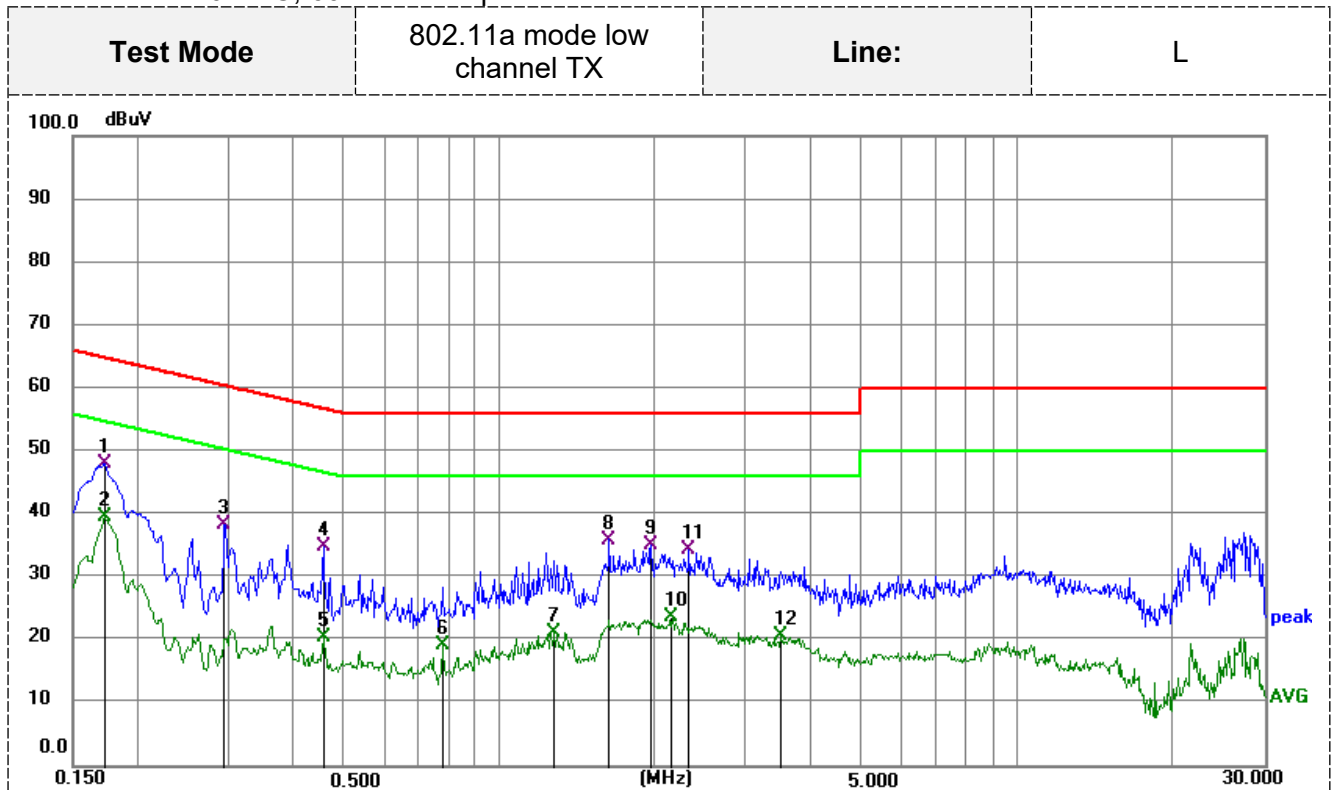


##### TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

## TEST RESULTS

1. Pre-scan all WIFI operation modes at Low, Middle, and High channel; only the worst result of UNII band 1 802.11a mode antenna 1 low channel was reported as below:
2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:



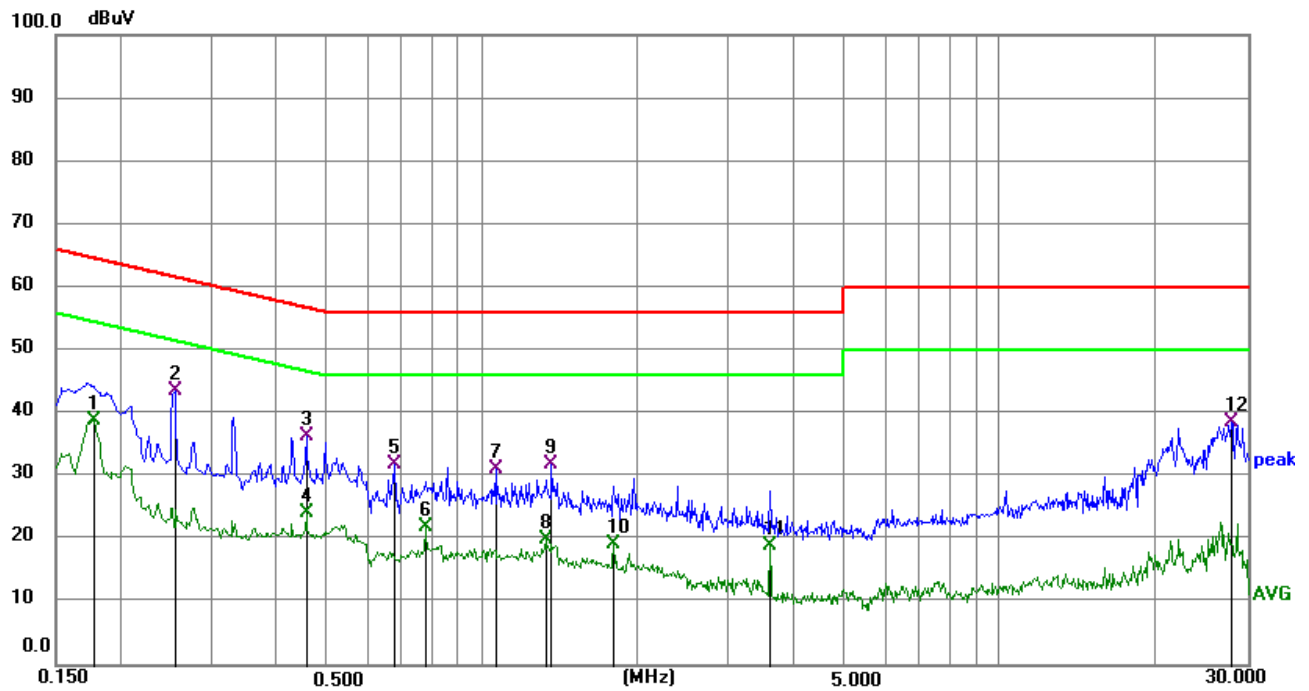
Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;

Measurement Result = Reading Level +Correct Factor;

Margin = Measurement Result- Limit

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1723             | 37.01             | 11.09           | 48.10            | 64.85           | -16.75         | QP     |
| 2   | 0.1723             | 28.41             | 11.09           | 39.50            | 54.85           | -15.35         | AVG    |
| 3   | 0.2940             | 27.35             | 11.07           | 38.42            | 60.41           | -21.99         | QP     |
| 4   | 0.4560             | 23.91             | 11.06           | 34.97            | 56.77           | -21.80         | QP     |
| 5   | 0.4560             | 9.50              | 11.06           | 20.56            | 46.77           | -26.21         | AVG    |
| 6   | 0.7752             | 8.29              | 11.04           | 19.33            | 46.00           | -26.67         | AVG    |
| 7   | 1.2795             | 10.18             | 11.06           | 21.24            | 46.00           | -24.76         | AVG    |
| 8   | 1.6350             | 24.93             | 11.05           | 35.98            | 56.00           | -20.02         | QP     |
| 9   | 1.9680             | 23.97             | 11.04           | 35.01            | 56.00           | -20.99         | QP     |
| 10  | 2.1614             | 12.75             | 11.03           | 23.78            | 46.00           | -22.22         | AVG    |
| 11  | 2.3280             | 23.23             | 11.02           | 34.25            | 56.00           | -21.75         | QP     |
| 12  | 3.5070             | 9.50              | 11.16           | 20.66            | 46.00           | -25.34         | AVG    |

|           |                             |       |   |
|-----------|-----------------------------|-------|---|
| Test Mode | 802.11a mode low channel TX | Line: | N |
|-----------|-----------------------------|-------|---|



Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;

Measurement Result = Reading Level + Correct Factor;

Margin = Measurement Result - Limit

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1770             | 27.75             | 10.98           | 38.73            | 54.63           | -15.90         | AVG    |
| 2   | 0.2535             | 32.56             | 10.99           | 43.55            | 61.64           | -18.09         | QP     |
| 3   | 0.4560             | 25.41             | 11.00           | 36.41            | 56.77           | -20.36         | QP     |
| 4   | 0.4560             | 13.07             | 11.00           | 24.07            | 46.77           | -22.70         | AVG    |
| 5   | 0.6764             | 21.01             | 10.99           | 32.00            | 56.00           | -24.00         | QP     |
| 6   | 0.7753             | 10.87             | 10.99           | 21.86            | 46.00           | -24.14         | AVG    |
| 7   | 1.0633             | 20.13             | 11.00           | 31.13            | 56.00           | -24.87         | QP     |
| 8   | 1.3290             | 9.03              | 10.99           | 20.02            | 46.00           | -25.98         | AVG    |
| 9   | 1.3650             | 20.82             | 10.99           | 31.81            | 56.00           | -24.19         | QP     |
| 10  | 1.7970             | 8.30              | 10.99           | 19.29            | 46.00           | -26.71         | AVG    |
| 11  | 3.5924             | 7.81              | 11.09           | 18.90            | 46.00           | -27.10         | AVG    |
| 12  | 27.8610            | 26.71             | 11.99           | 38.70            | 60.00           | -21.30         | QP     |

## 3.2 Radiated Emissions and Band Edge

### Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) 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.
- (2) 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.
- (3) 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.
- (4) 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.

### Undesirable emission limits

| Requirement  | Limit(EIRP)     | Limit (Field strength at 3m) <sup>Note1</sup> |
|--------------|-----------------|-----------------------------------------------|
| 15.407(b)(1) | PK:-27(dBm/MHz) | PK:68.2(dBμV/m)                               |
| 15.407(b)(2) |                 |                                               |
| 15.407(b)(3) |                 |                                               |
| 15.407(b)(4) |                 |                                               |

Note1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

(5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209

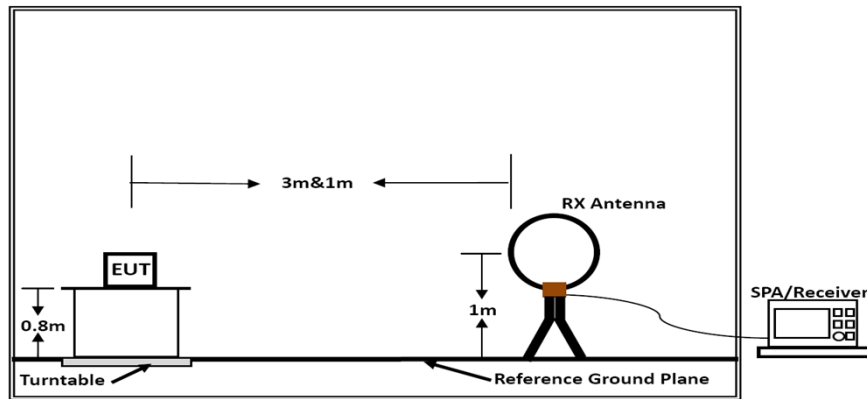
(6) In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

### Radiated emission limits

| Frequency (MHz) | Distance (Meters) | Radiated (dBμV/m)                          | Radiated (μV/m)       |
|-----------------|-------------------|--------------------------------------------|-----------------------|
| 0.009-0.49      | 3                 | $20\log(2400/F(\text{KHz}))+40\log(300/3)$ | $2400/F(\text{KHz})$  |
| 0.49-1.705      | 3                 | $20\log(24000/F(\text{KHz}))+40\log(30/3)$ | $24000/F(\text{KHz})$ |
| 1.705-30        | 3                 | $20\log(30)+40\log(30/3)$                  | 30                    |
| 30-88           | 3                 | 40.0                                       | 100                   |
| 88-216          | 3                 | 43.5                                       | 150                   |
| 216-960         | 3                 | 46.0                                       | 200                   |
| Above 960       | 3                 | 54.0                                       | 500                   |

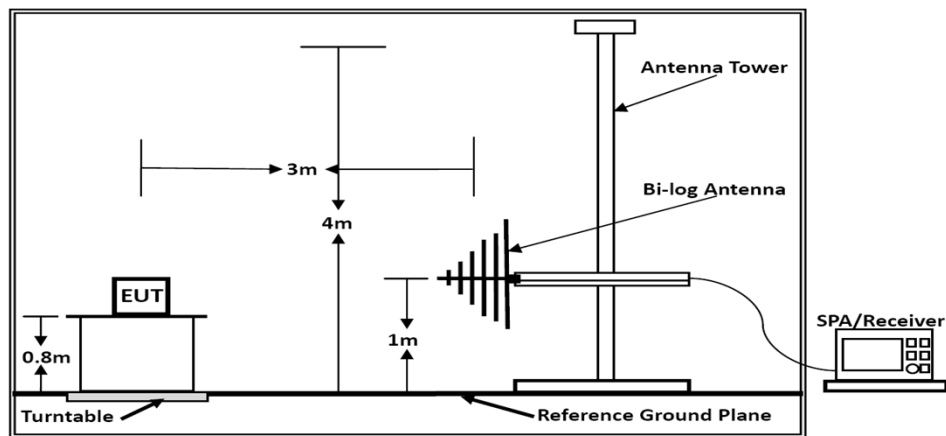
## TEST CONFIGURATION

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



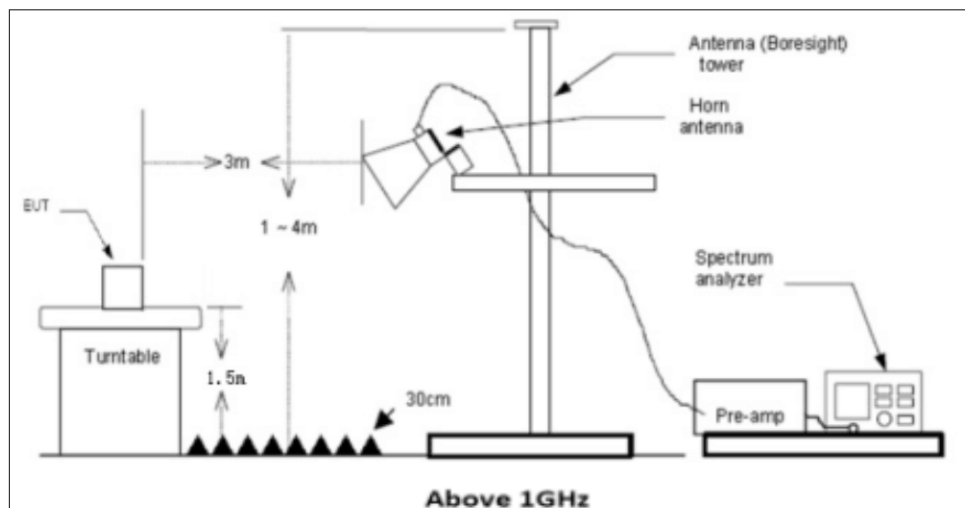
Below 30MHz

(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



Below 1GHz

(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Above 1GHz

## **Test Procedure**

1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 40GHz.
6. The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type   | Test Distance |
|----------------------|---------------------|---------------|
| 9KHz-30MHz           | Active Loop Antenna | 3             |
| 30MHz-1GHz           | Bilog Antenna       | 3             |
| 1GHz-26.5GHz         | Horn Antenna        | 3             |
| 26.5GHz-40GHz        | Horn Antenna        | 1             |

7. Setting test receiver/spectrum as following table states:

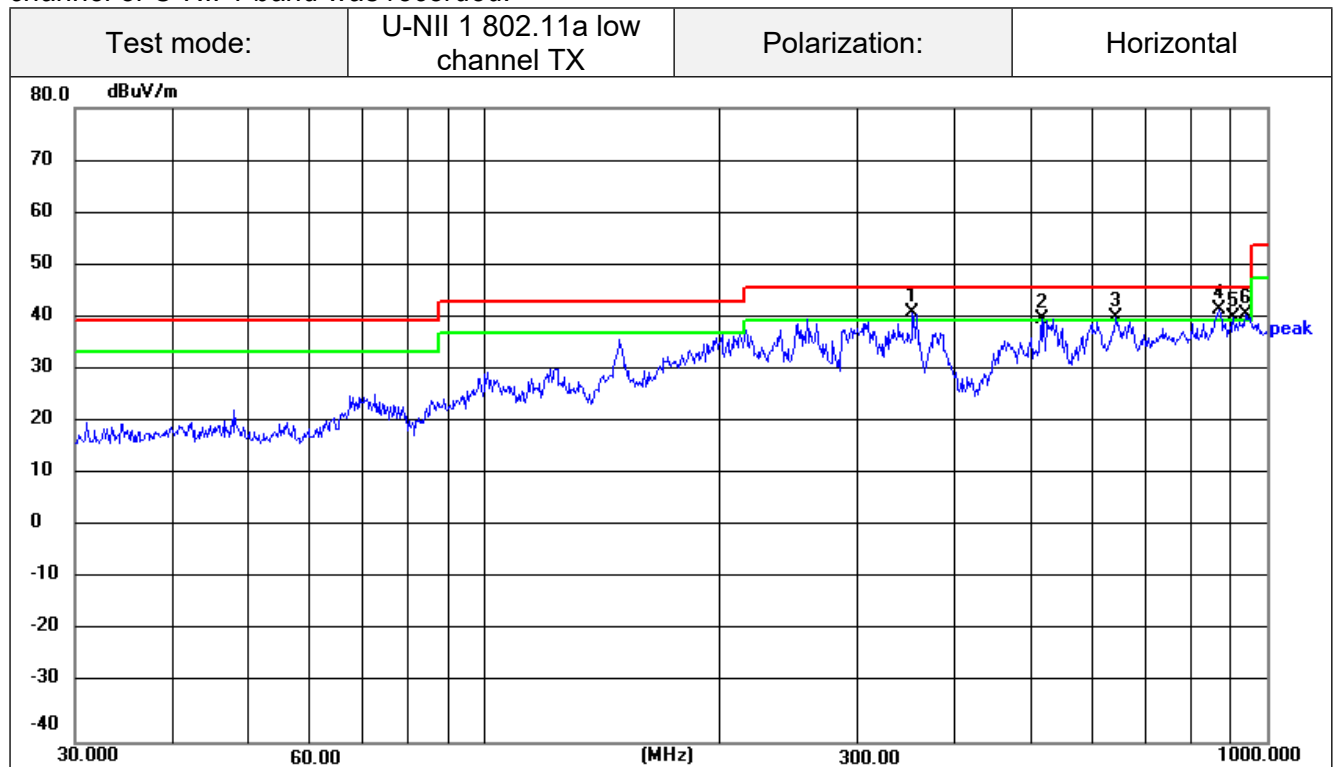
| Test Frequency range | Test Receiver/Spectrum Setting                                                                            | Detector |
|----------------------|-----------------------------------------------------------------------------------------------------------|----------|
| 9KHz-150KHz          | RBW=200Hz/VBW=3KHz, Sweep time=Auto                                                                       | QP       |
| 150KHz-30MHz         | RBW=9KHz/VBW=100KHz, Sweep time=Auto                                                                      | QP       |
| 30MHz-1GHz           | RBW=120KHz/VBW=1000KHz, Sweep time=Auto                                                                   | QP       |
| 1GHz-40GHz           | Peak Value: RBW=1MHz/VBW=3MHz,<br>Sweep time=Auto<br>Average Value: RBW=1MHz/VBW=10Hz,<br>Sweep time=Auto | Peak     |

## **TEST RESULTS**

Remark: Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

### For 30MHz-1GHz

Note: Pre-scan all WIFI operation modes for below 1GHz test, only the worst case 802.11a Ant1 low channel of U-NII 1 band was recorded.



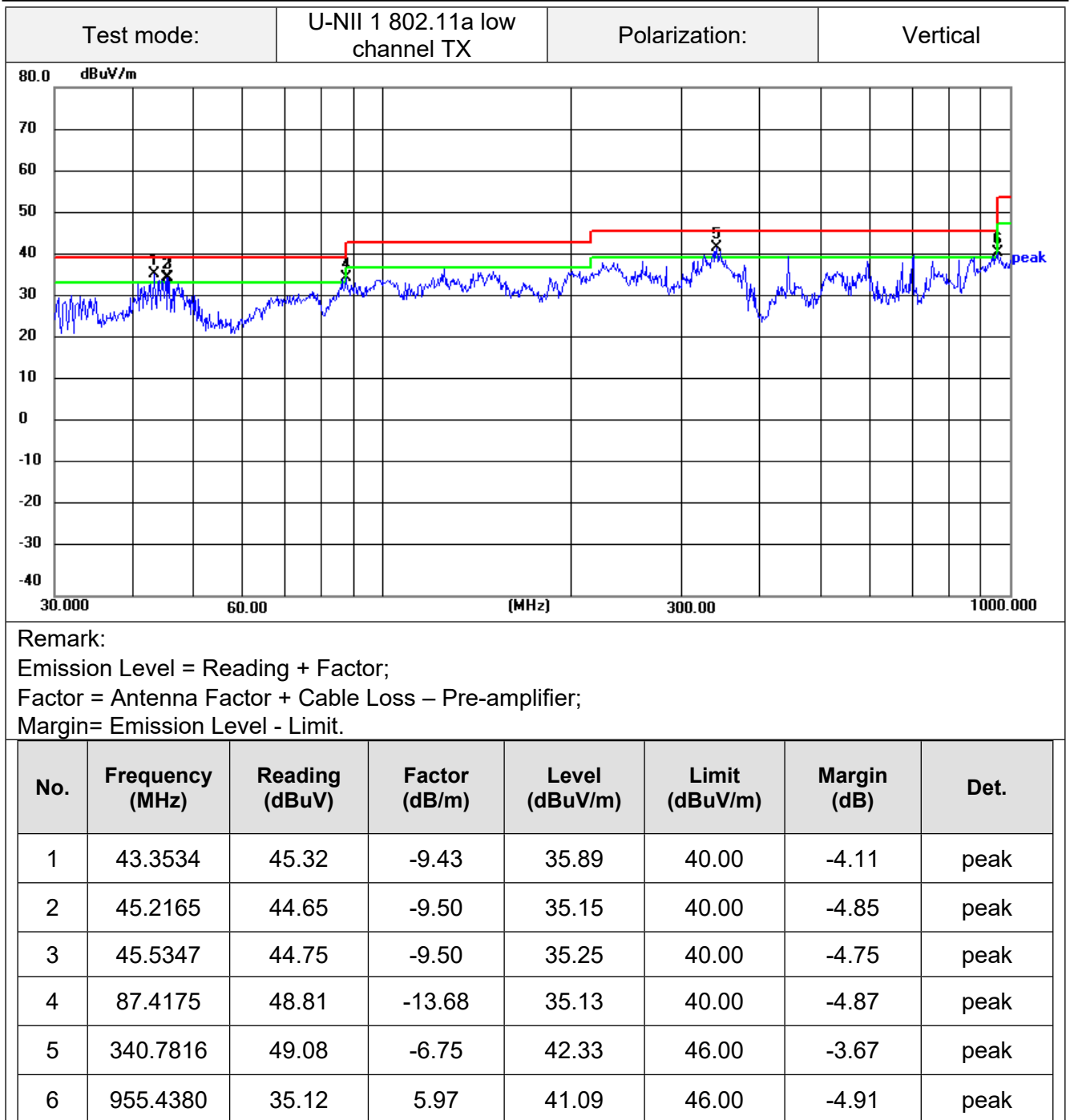
Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

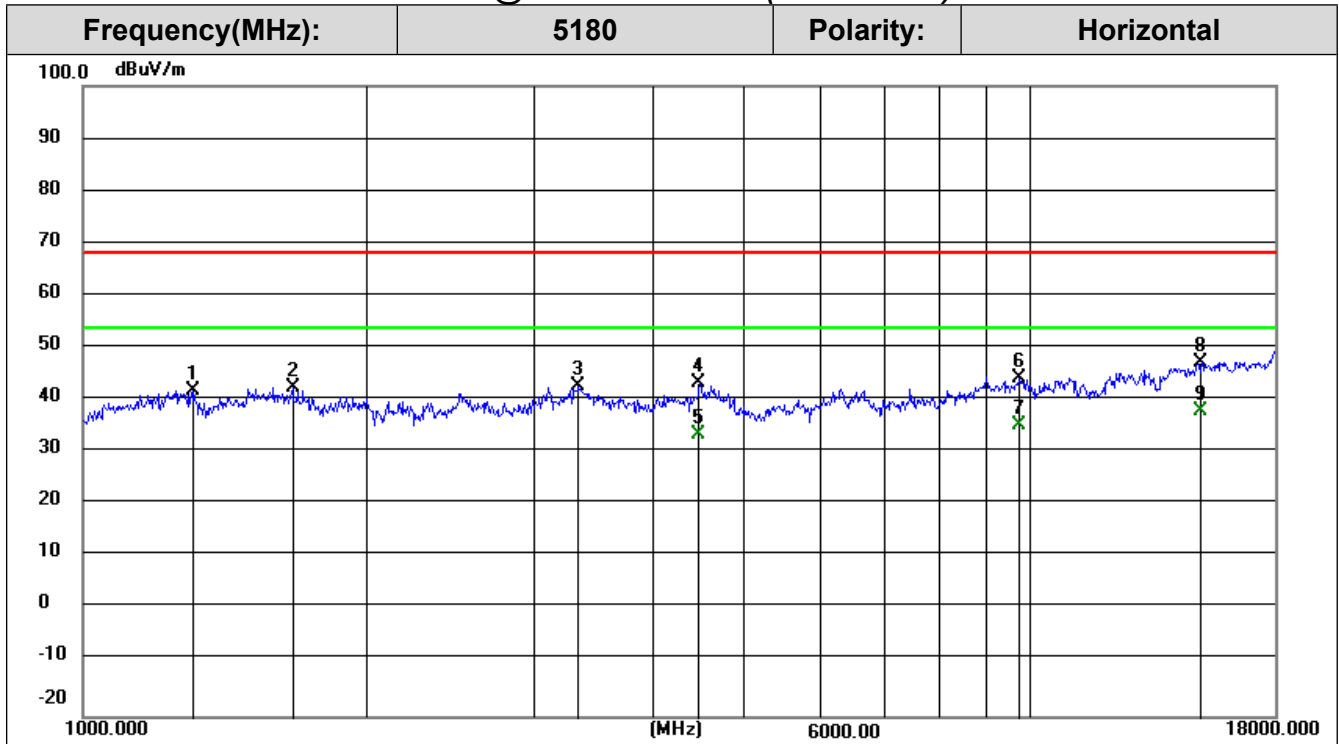
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 352.9433        | 47.81          | -6.42         | 41.39          | 46.00          | -4.61       | peak |
| 2   | 515.4373        | 42.27          | -2.04         | 40.23          | 46.00          | -5.77       | peak |
| 3   | 640.6110        | 39.69          | 0.62          | 40.31          | 46.00          | -5.69       | peak |
| 4   | 869.1301        | 36.97          | 5.10          | 42.07          | 46.00          | -3.93       | peak |
| 5   | 906.4823        | 35.65          | 4.73          | 40.38          | 46.00          | -5.62       | peak |
| 6   | 938.8325        | 35.41          | 5.62          | 41.03          | 46.00          | -4.97       | peak |



### For 1GHz to 18GHz

Remark: All WIFI operation modes have been tested for above 1GHz test, only the worst case was recorded for each U-NII band as below:

#### U-NII 1 @ 802.11n20 MIMO (above 1GHz)



Remark:

Filter is used

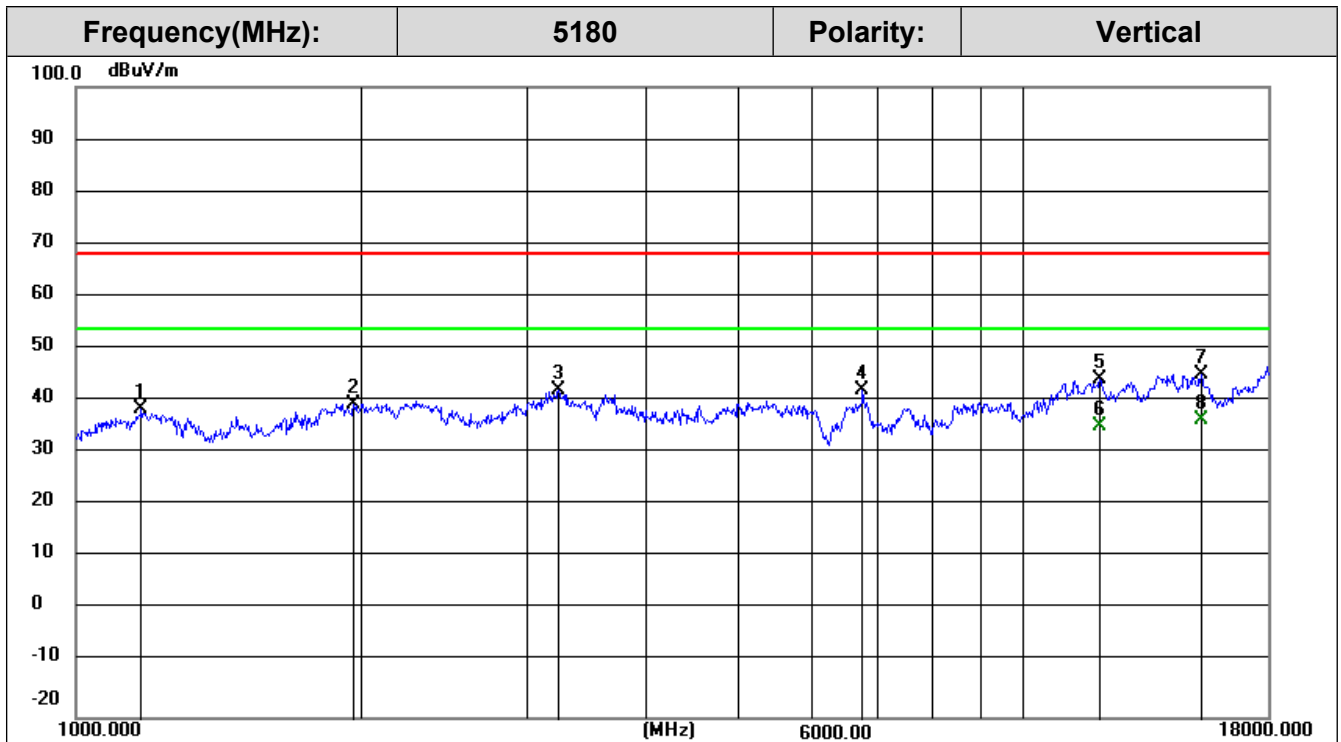
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1311.807        | 68.04            | -25.85         | 42.19           | 68.20          | -26.01      | peak   |
| 2   | 1668.433        | 67.20            | -24.58         | 42.62           | 68.20          | -25.58      | peak   |
| 3   | 3336.746        | 61.88            | -18.97         | 42.91           | 68.20          | -25.29      | peak   |
| 4   | 4483.446        | 59.16            | -15.65         | 43.51           | 68.20          | -24.69      | peak   |
| 5   | 4483.446        | 49.32            | -15.65         | 33.67           | 54.00          | -20.33      | AVG    |
| 6   | 9719.600        | 47.80            | -3.33          | 44.47           | 68.20          | -23.73      | peak   |
| 7   | 9719.600        | 38.75            | -3.33          | 35.42           | 54.00          | -18.58      | AVG    |
| 8   | 15107.861       | 48.00            | -0.61          | 47.39           | 68.20          | -20.81      | peak   |
| 9   | 15107.861       | 38.77            | -0.61          | 38.16           | 54.00          | -15.84      | AVG    |

Note:A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

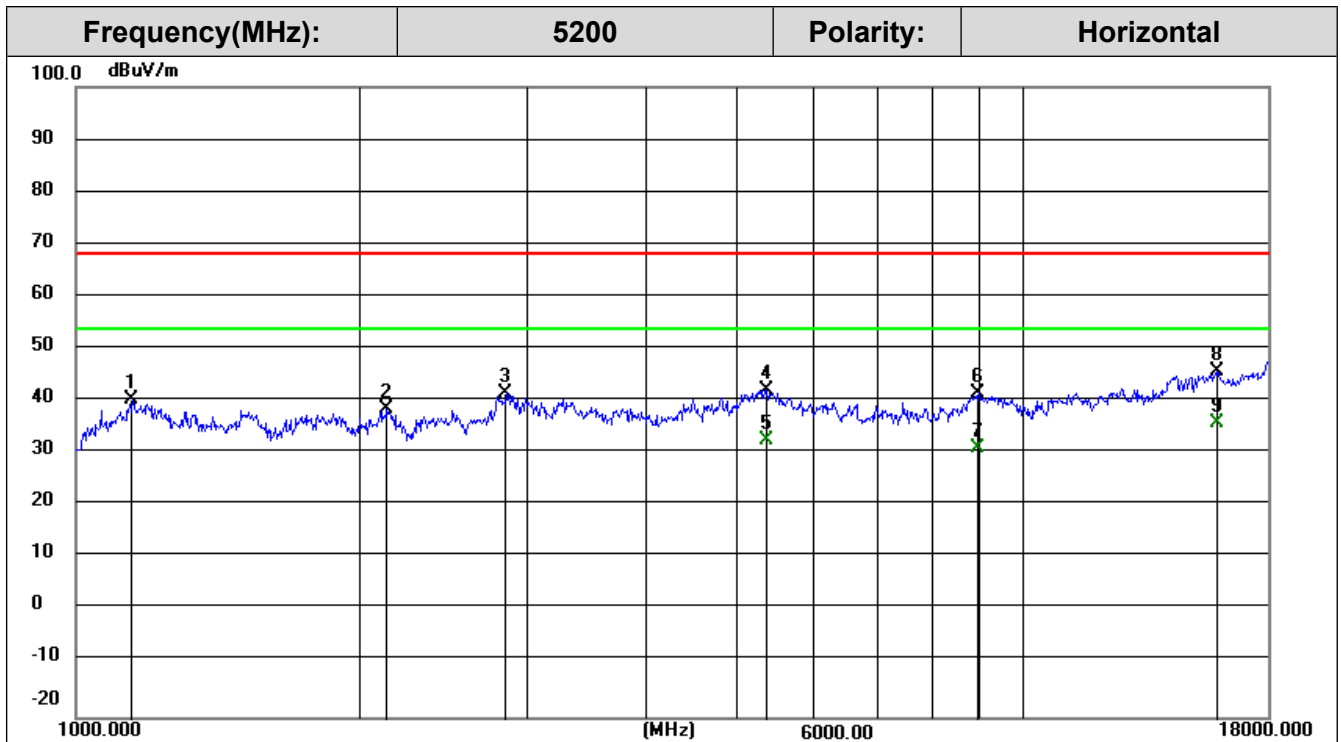
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1173.999        | 64.61            | -25.69         | 38.92           | 68.20          | -29.28      | peak   |
| 2   | 1971.233        | 62.96            | -23.15         | 39.81           | 68.20          | -28.39      | peak   |
| 3   | 3232.326        | 61.46            | -19.10         | 42.36           | 68.20          | -25.84      | peak   |
| 4   | 6750.851        | 50.98            | -8.57          | 42.41           | 68.20          | -25.79      | peak   |
| 5   | 12023.654       | 46.37            | -2.05          | 44.32           | 68.20          | -23.88      | peak   |
| 6   | 12023.654       | 37.69            | -2.05          | 35.64           | 54.00          | -18.36      | AVG    |
| 7   | 15349.951       | 46.00            | -0.59          | 45.41           | 68.20          | -22.79      | peak   |
| 8   | 15349.951       | 37.23            | -0.59          | 36.64           | 54.00          | -17.36      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

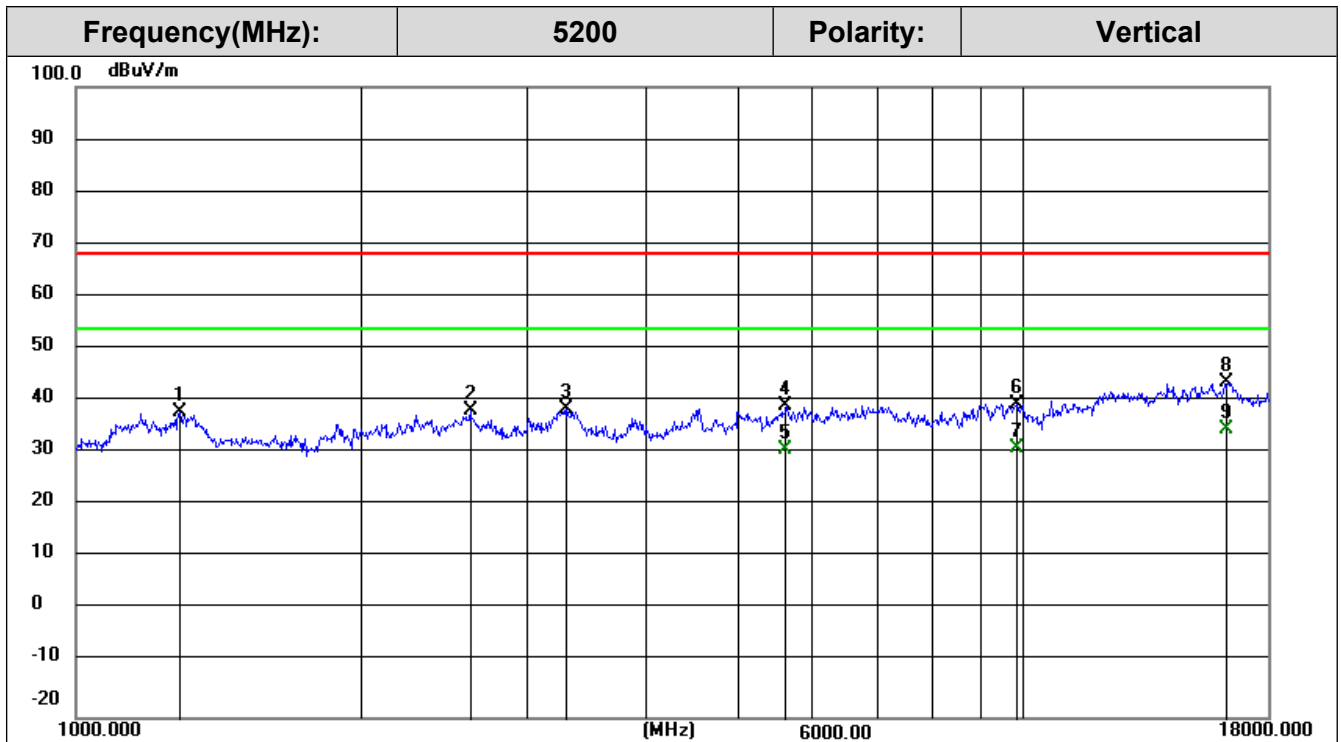
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1150.817        | 66.31            | -25.69         | 40.62           | 68.20          | -27.58      | peak   |
| 2   | 2131.846        | 61.37            | -22.60         | 38.77           | 68.20          | -29.43      | peak   |
| 3   | 2844.671        | 61.87            | -20.07         | 41.80           | 68.20          | -26.40      | peak   |
| 4   | 5369.588        | 55.08            | -12.57         | 42.51           | 68.20          | -25.69      | peak   |
| 5   | 5369.588        | 45.54            | -12.57         | 32.97           | 54.00          | -21.03      | AVG    |
| 6   | 8956.208        | 46.11            | -4.24          | 41.87           | 68.20          | -26.33      | peak   |
| 7   | 8956.208        | 35.75            | -4.24          | 31.51           | 54.00          | -22.49      | AVG    |
| 8   | 15923.882       | 46.38            | -0.55          | 45.83           | 68.20          | -22.37      | peak   |
| 9   | 15923.882       | 36.75            | -0.55          | 36.20           | 54.00          | -17.80      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

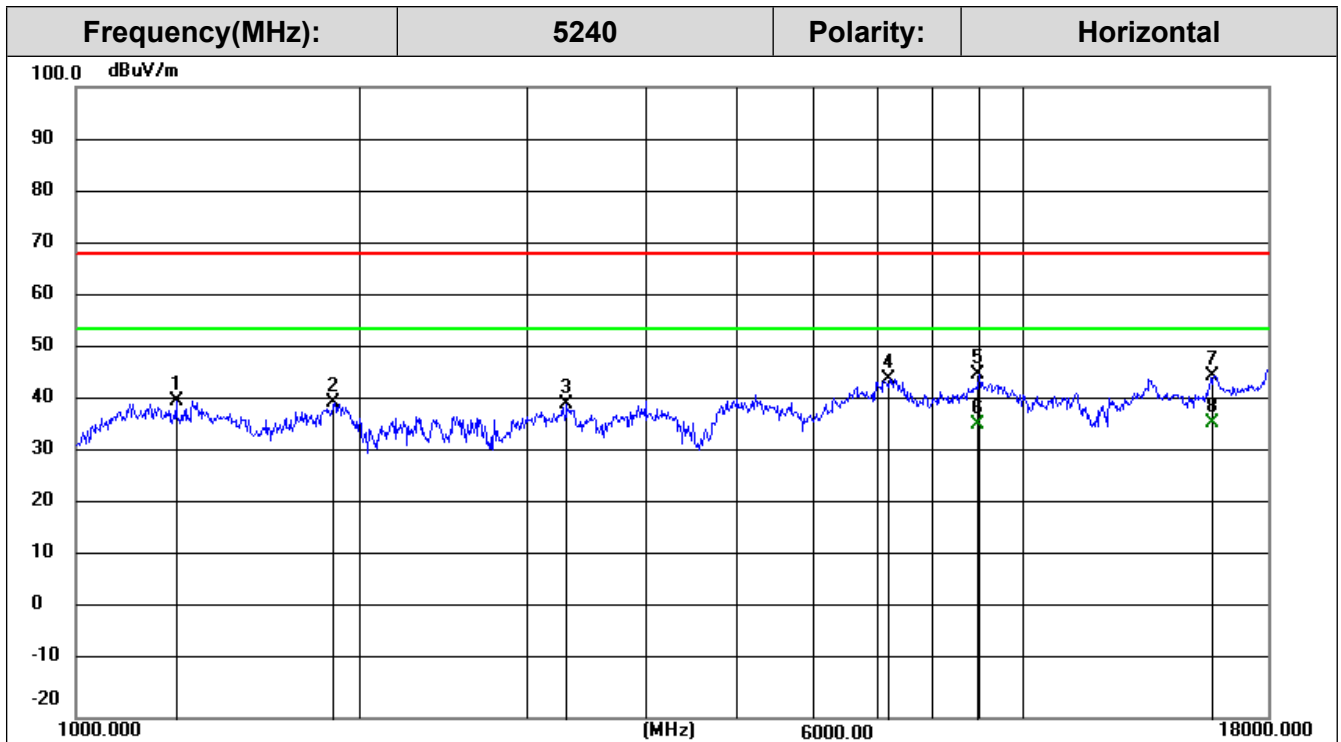
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1287.392        | 64.02            | -25.81         | 38.21           | 68.20          | -29.99      | peak   |
| 2   | 2612.171        | 59.57            | -21.07         | 38.50           | 68.20          | -29.70      | peak   |
| 3   | 3299.343        | 57.85            | -19.01         | 38.84           | 68.20          | -29.36      | peak   |
| 4   | 5605.889        | 51.67            | -12.15         | 39.52           | 68.20          | -28.68      | peak   |
| 5   | 5605.889        | 43.10            | -12.15         | 30.95           | 54.00          | -23.05      | AVG    |
| 6   | 9841.155        | 42.95            | -3.22          | 39.73           | 68.20          | -28.47      | peak   |
| 7   | 9841.155        | 34.71            | -3.22          | 31.49           | 54.00          | -22.51      | AVG    |
| 8   | 16357.728       | 44.34            | -0.59          | 43.75           | 68.20          | -24.45      | peak   |
| 9   | 16357.728       | 35.50            | -0.59          | 34.91           | 54.00          | -19.09      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

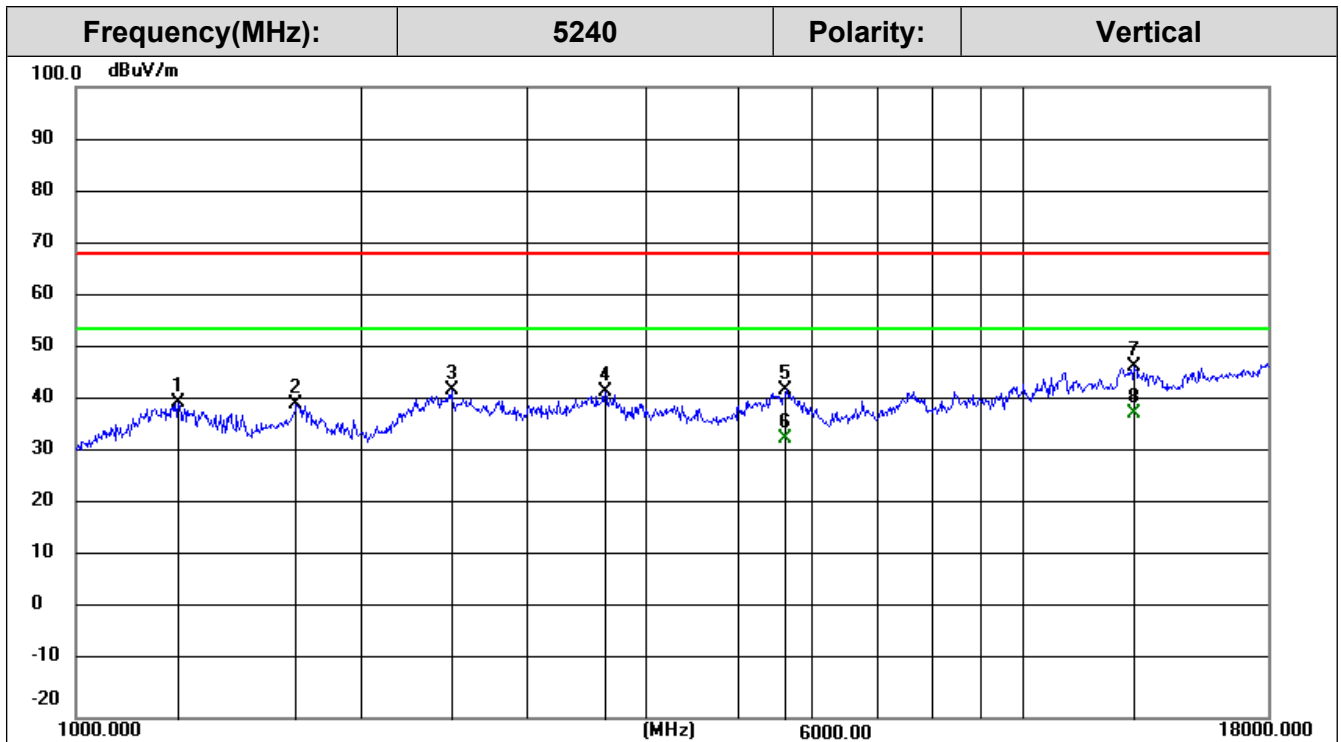
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1276.646        | 66.19            | -25.80         | 40.39           | 68.20          | -27.81      | peak   |
| 2   | 1875.088        | 63.77            | -23.64         | 40.13           | 68.20          | -28.07      | peak   |
| 3   | 3299.343        | 58.63            | -19.01         | 39.62           | 68.20          | -28.58      | peak   |
| 4   | 7214.891        | 52.04            | -7.51          | 44.53           | 68.20          | -23.67      | peak   |
| 5   | 8956.208        | 49.61            | -4.24          | 45.37           | 68.20          | -22.83      | peak   |
| 6   | 8956.208        | 40.20            | -4.24          | 35.96           | 54.00          | -18.04      | AVG    |
| 7   | 15882.512       | 45.70            | -0.56          | 45.14           | 68.20          | -23.06      | peak   |
| 8   | 15882.512       | 36.71            | -0.56          | 36.15           | 54.00          | -17.85      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

Emission Level = Reading + Factor;

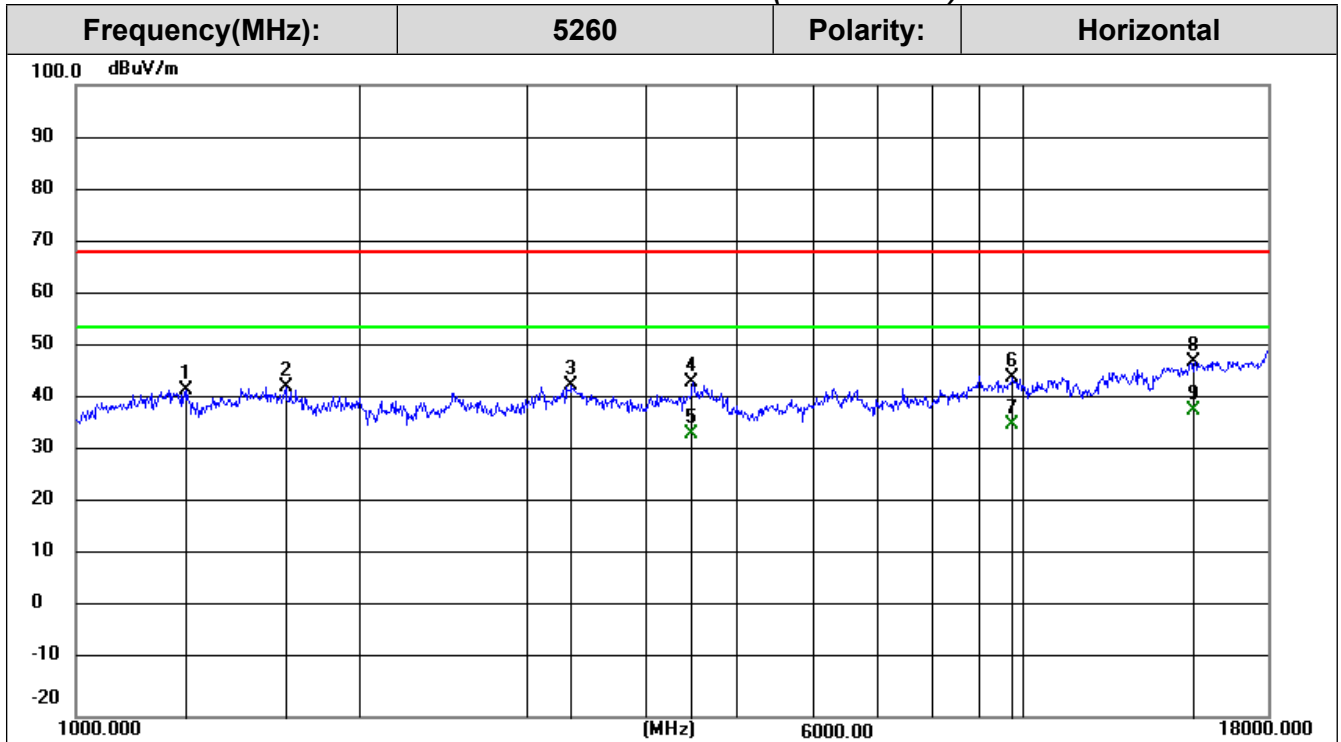
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1285.533        | 65.74            | -25.81         | 39.93           | 68.20          | -28.27      | peak   |
| 2   | 1708.449        | 64.09            | -24.42         | 39.67           | 68.20          | -28.53      | peak   |
| 3   | 2494.840        | 64.03            | -21.57         | 42.46           | 68.20          | -25.74      | peak   |
| 4   | 3609.662        | 60.50            | -18.39         | 42.11           | 68.20          | -26.09      | peak   |
| 5   | 5605.889        | 54.67            | -12.15         | 42.52           | 68.20          | -25.68      | peak   |
| 6   | 5605.889        | 45.27            | -12.15         | 33.12           | 54.00          | -20.88      | AVG    |
| 7   | 13048.503       | 48.97            | -2.15          | 46.82           | 68.20          | -21.38      | peak   |
| 8   | 13048.503       | 40.06            | -2.15          | 37.91           | 54.00          | -16.09      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.

### U-NII 2A & 802.11n20 MIMO (above 1GHz)



Remark:

Filter is used

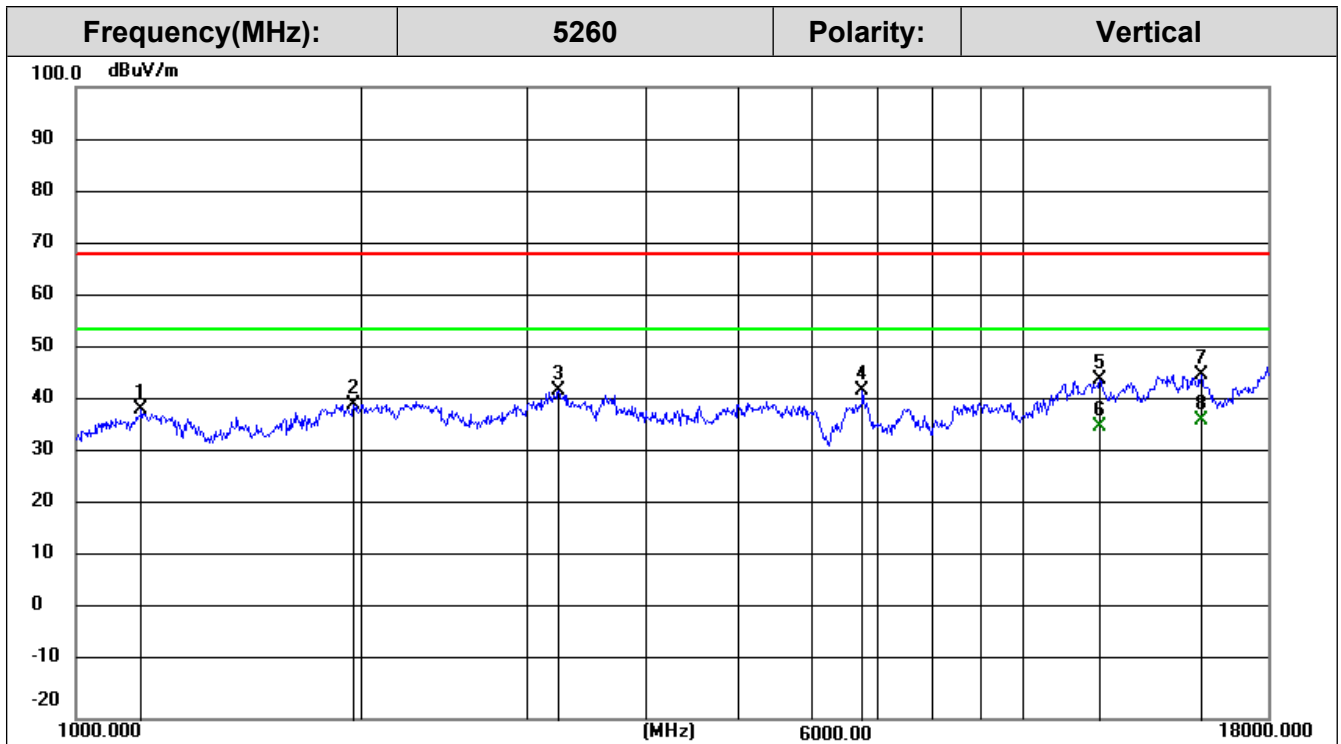
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1311.807           | 68.04               | -25.85            | 42.19              | 68.20             | -26.01         | peak   |
| 2   | 1668.433           | 67.20               | -24.58            | 42.62              | 68.20             | -25.58         | peak   |
| 3   | 3336.746           | 61.88               | -18.97            | 42.91              | 68.20             | -25.29         | peak   |
| 4   | 4483.446           | 59.16               | -15.65            | 43.51              | 68.20             | -24.69         | peak   |
| 5   | 4483.446           | 49.32               | -15.65            | 33.67              | 54.00             | -20.33         | AVG    |
| 6   | 9719.600           | 47.80               | -3.33             | 44.47              | 68.20             | -23.73         | peak   |
| 7   | 9719.600           | 38.75               | -3.33             | 35.42              | 54.00             | -18.58         | AVG    |
| 8   | 15107.861          | 48.00               | -0.61             | 47.39              | 68.20             | -20.81         | peak   |
| 9   | 15107.861          | 38.77               | -0.61             | 38.16              | 54.00             | -15.84         | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

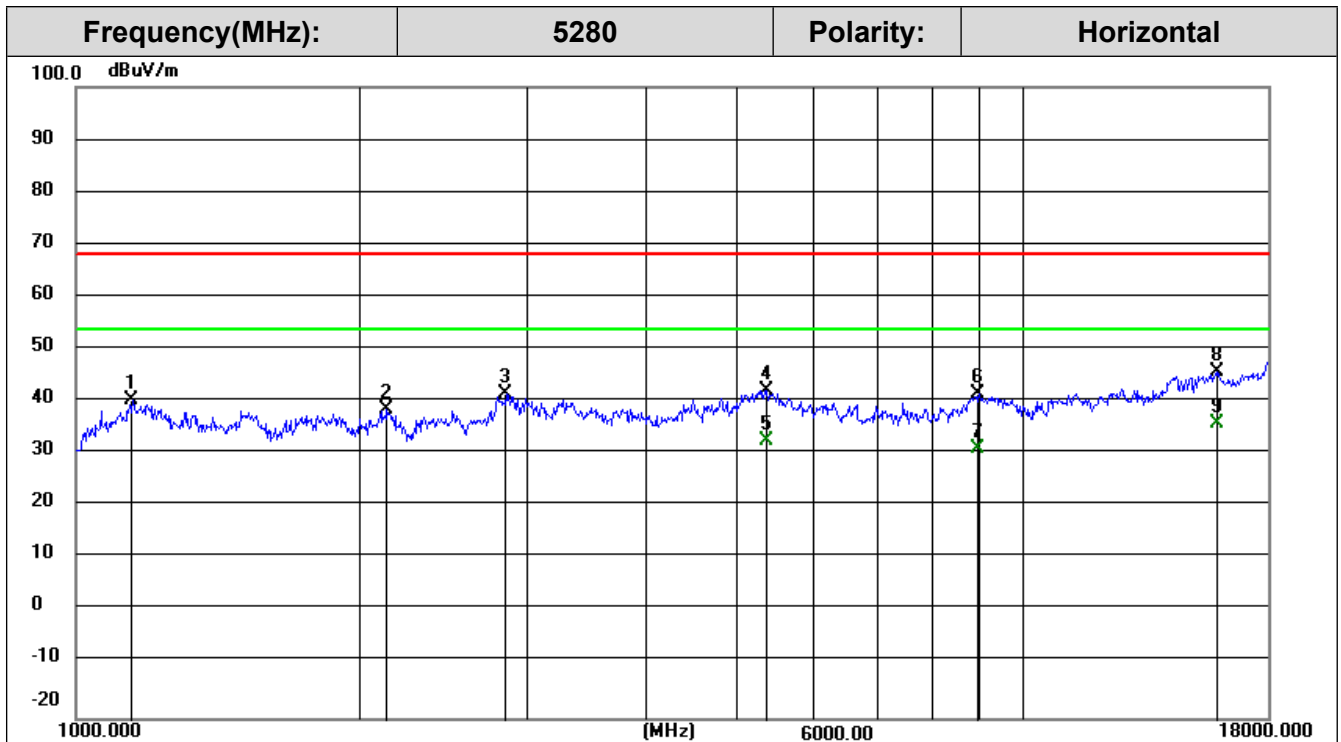
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1173.999        | 64.61            | -25.69         | 38.92           | 68.20          | -29.28      | peak   |
| 2   | 1971.233        | 62.96            | -23.15         | 39.81           | 68.20          | -28.39      | peak   |
| 3   | 3232.326        | 61.46            | -19.10         | 42.36           | 68.20          | -25.84      | peak   |
| 4   | 6750.851        | 50.98            | -8.57          | 42.41           | 68.20          | -25.79      | peak   |
| 5   | 12023.654       | 46.37            | -2.05          | 44.32           | 68.20          | -23.88      | peak   |
| 6   | 12023.654       | 37.69            | -2.05          | 35.64           | 54.00          | -18.36      | AVG    |
| 7   | 15349.951       | 46.00            | -0.59          | 45.41           | 68.20          | -22.79      | peak   |
| 8   | 15349.951       | 37.23            | -0.59          | 36.64           | 54.00          | -17.36      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

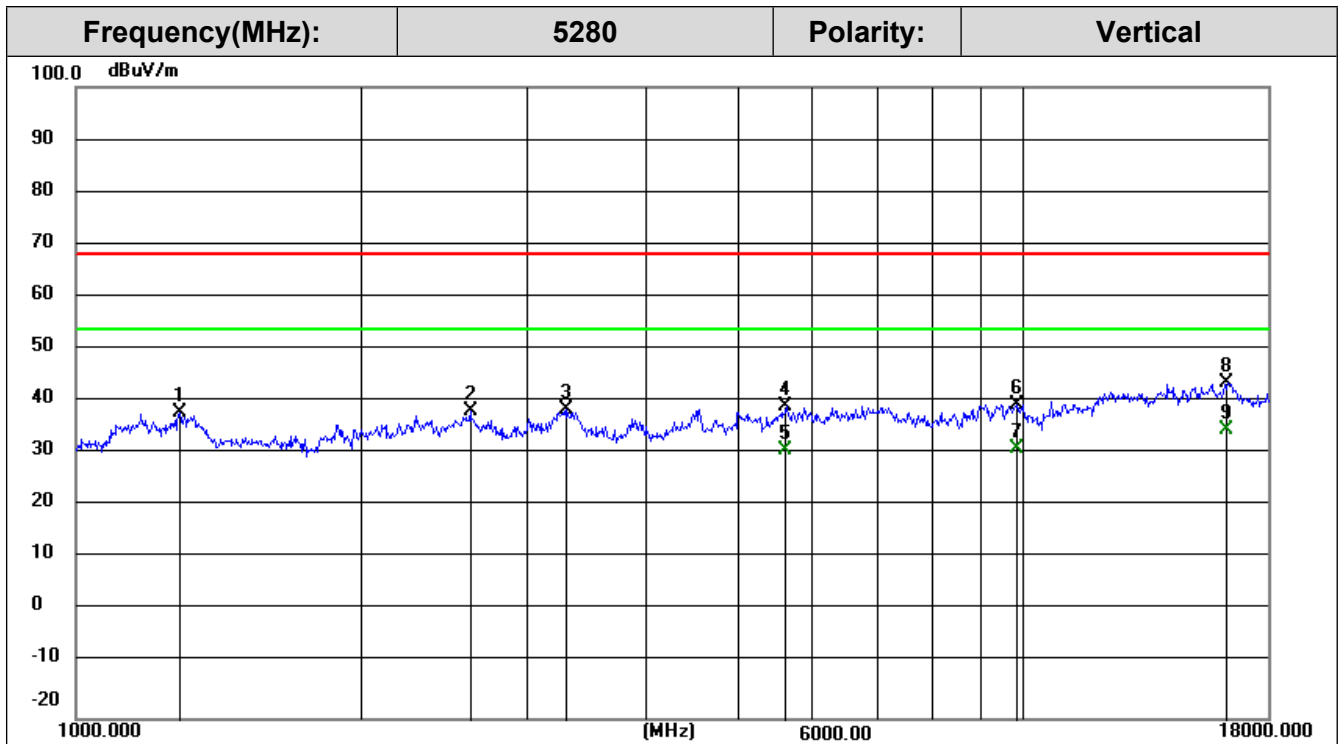
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1150.817        | 66.31            | -25.69         | 40.62           | 68.20          | -27.58      | peak   |
| 2   | 2131.846        | 61.37            | -22.60         | 38.77           | 68.20          | -29.43      | peak   |
| 3   | 2844.671        | 61.87            | -20.07         | 41.80           | 68.20          | -26.40      | peak   |
| 4   | 5369.588        | 55.08            | -12.57         | 42.51           | 68.20          | -25.69      | peak   |
| 5   | 5369.588        | 45.54            | -12.57         | 32.97           | 54.00          | -21.03      | AVG    |
| 6   | 8956.208        | 46.11            | -4.24          | 41.87           | 68.20          | -26.33      | peak   |
| 7   | 8956.208        | 35.75            | -4.24          | 31.51           | 54.00          | -22.49      | AVG    |
| 8   | 15923.882       | 46.38            | -0.55          | 45.83           | 68.20          | -22.37      | peak   |
| 9   | 15923.882       | 36.75            | -0.55          | 36.20           | 54.00          | -17.80      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

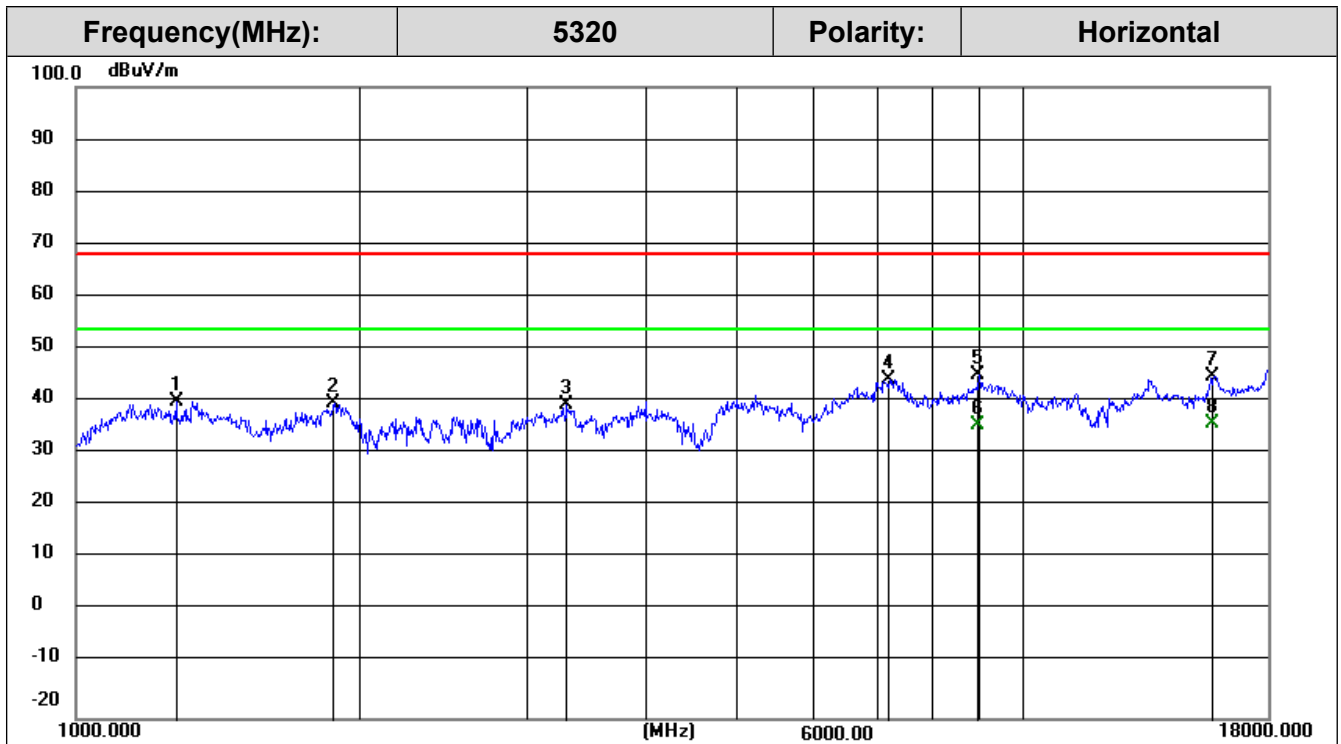
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1287.392        | 64.02            | -25.81         | 38.21           | 68.20          | -29.99      | peak   |
| 2   | 2612.171        | 59.57            | -21.07         | 38.50           | 68.20          | -29.70      | peak   |
| 3   | 3299.343        | 57.85            | -19.01         | 38.84           | 68.20          | -29.36      | peak   |
| 4   | 5605.889        | 51.67            | -12.15         | 39.52           | 68.20          | -28.68      | peak   |
| 5   | 5605.889        | 43.10            | -12.15         | 30.95           | 54.00          | -23.05      | AVG    |
| 6   | 9841.155        | 42.95            | -3.22          | 39.73           | 68.20          | -28.47      | peak   |
| 7   | 9841.155        | 34.71            | -3.22          | 31.49           | 54.00          | -22.51      | AVG    |
| 8   | 16357.728       | 44.34            | -0.59          | 43.75           | 68.20          | -24.45      | peak   |
| 9   | 16357.728       | 35.50            | -0.59          | 34.91           | 54.00          | -19.09      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

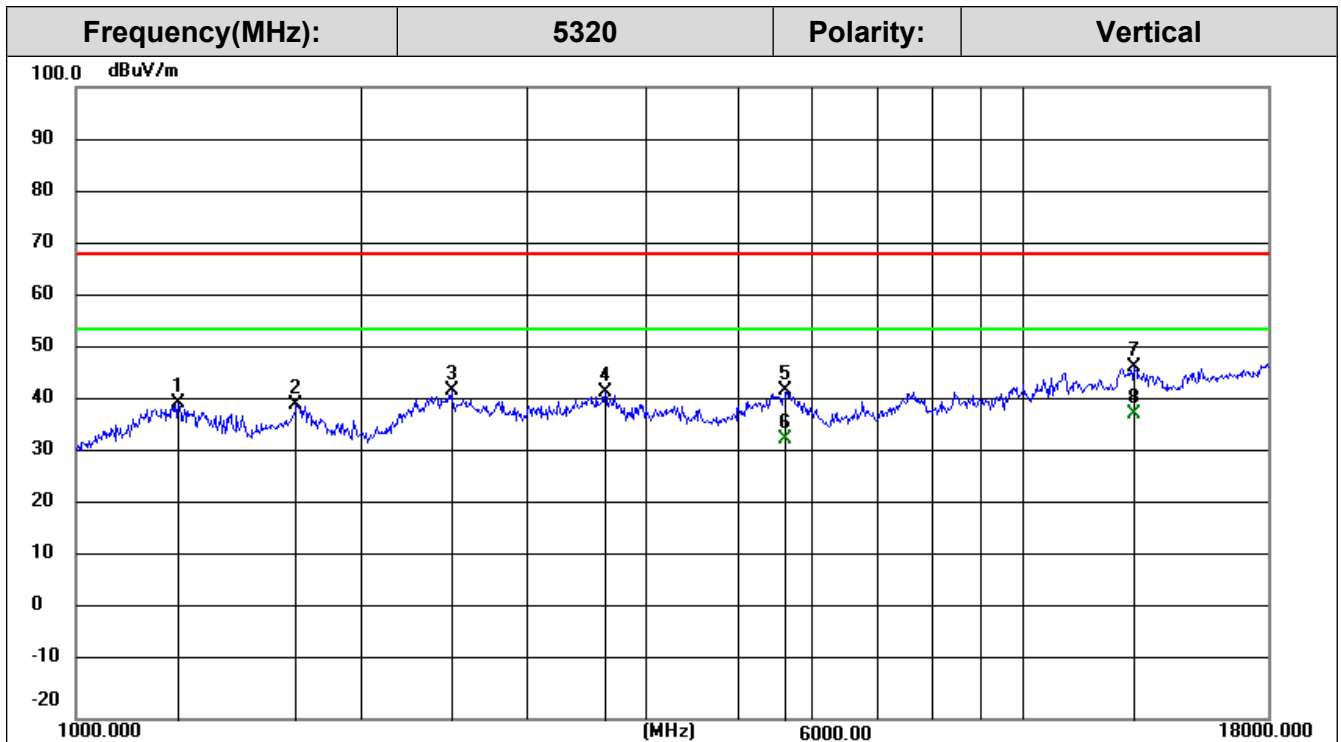
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1276.646           | 66.19               | -25.80            | 40.39              | 68.20             | -27.81         | peak   |
| 2   | 1875.088           | 63.77               | -23.64            | 40.13              | 68.20             | -28.07         | peak   |
| 3   | 3299.343           | 58.63               | -19.01            | 39.62              | 68.20             | -28.58         | peak   |
| 4   | 7214.891           | 52.04               | -7.51             | 44.53              | 68.20             | -23.67         | peak   |
| 5   | 8956.208           | 49.61               | -4.24             | 45.37              | 68.20             | -22.83         | peak   |
| 6   | 8956.208           | 40.20               | -4.24             | 35.96              | 54.00             | -18.04         | AVG    |
| 7   | 15882.512          | 45.70               | -0.56             | 45.14              | 68.20             | -23.06         | peak   |
| 8   | 15882.512          | 36.71               | -0.56             | 36.15              | 54.00             | -17.85         | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

Emission Level = Reading + Factor;

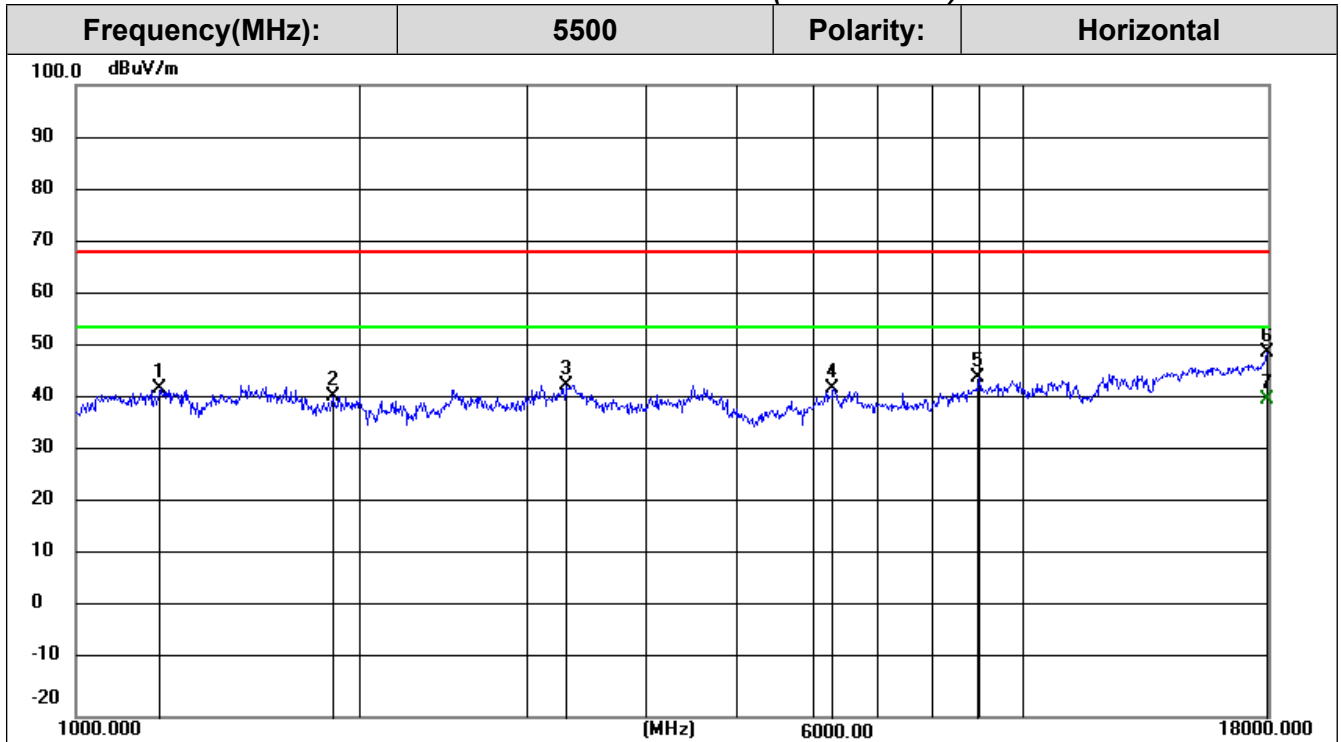
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1285.533        | 65.74            | -25.81         | 39.93           | 68.20          | -28.27      | peak   |
| 2   | 1708.449        | 64.09            | -24.42         | 39.67           | 68.20          | -28.53      | peak   |
| 3   | 2494.840        | 64.03            | -21.57         | 42.46           | 68.20          | -25.74      | peak   |
| 4   | 3609.662        | 60.50            | -18.39         | 42.11           | 68.20          | -26.09      | peak   |
| 5   | 5605.889        | 54.67            | -12.15         | 42.52           | 68.20          | -25.68      | peak   |
| 6   | 5605.889        | 45.27            | -12.15         | 33.12           | 54.00          | -20.88      | AVG    |
| 7   | 13048.503       | 48.97            | -2.15          | 46.82           | 68.20          | -21.38      | peak   |
| 8   | 13048.503       | 40.06            | -2.15          | 37.91           | 54.00          | -16.09      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.

### U-NII 2C & 802.11n20 MIMO (above 1GHz)



Remark:

Filter is used

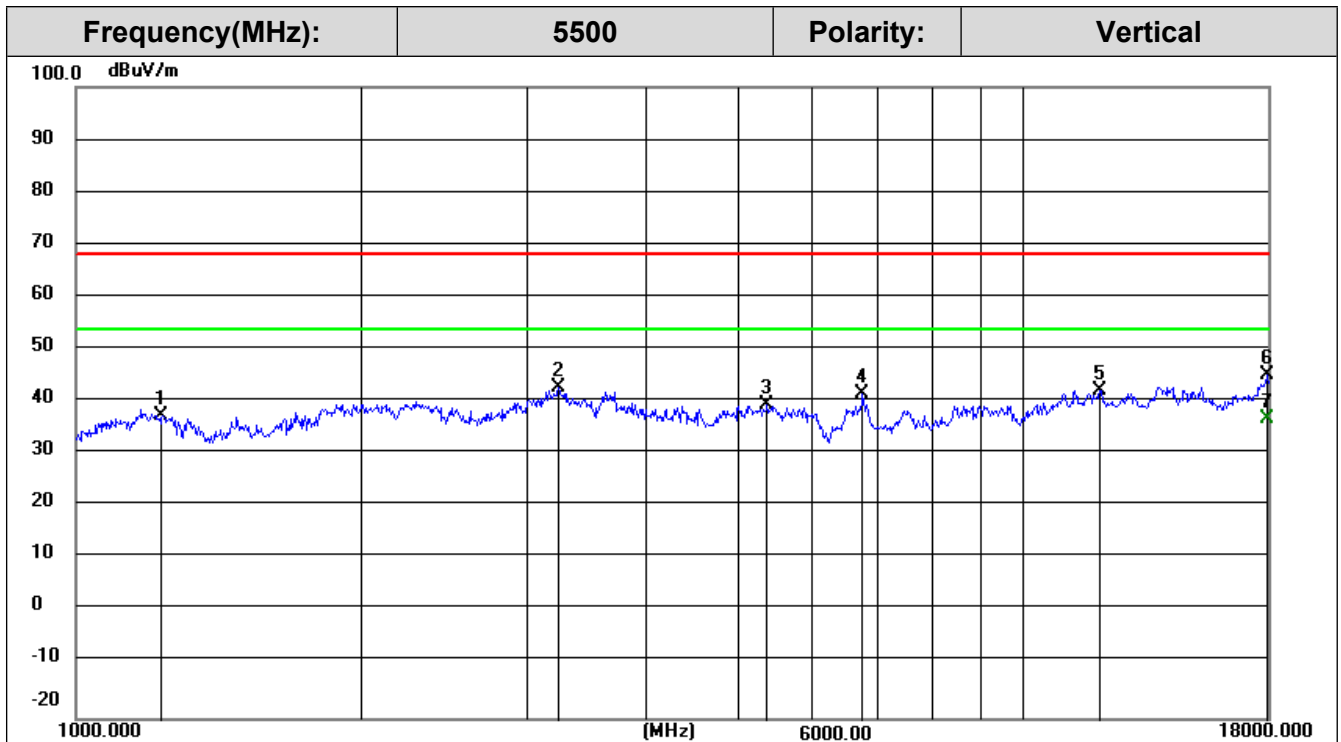
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1229.566           | 68.16               | -25.73            | 42.43              | 68.20             | -25.77         | peak   |
| 2   | 1869.136           | 64.68               | -23.67            | 41.01              | 68.20             | -27.19         | peak   |
| 3   | 3299.343           | 62.13               | -19.01            | 43.12              | 68.20             | -25.08         | peak   |
| 4   | 6307.534           | 52.66               | -10.24            | 42.42              | 68.20             | -25.78         | peak   |
| 5   | 8956.208           | 48.61               | -4.24             | 44.37              | 68.20             | -23.83         | peak   |
| 6   | 17994.798          | 39.73               | 9.41              | 49.14              | 68.20             | -19.06         | peak   |
| 7   | 17994.798          | 30.81               | 9.41              | 40.22              | 54.00             | -13.78         | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

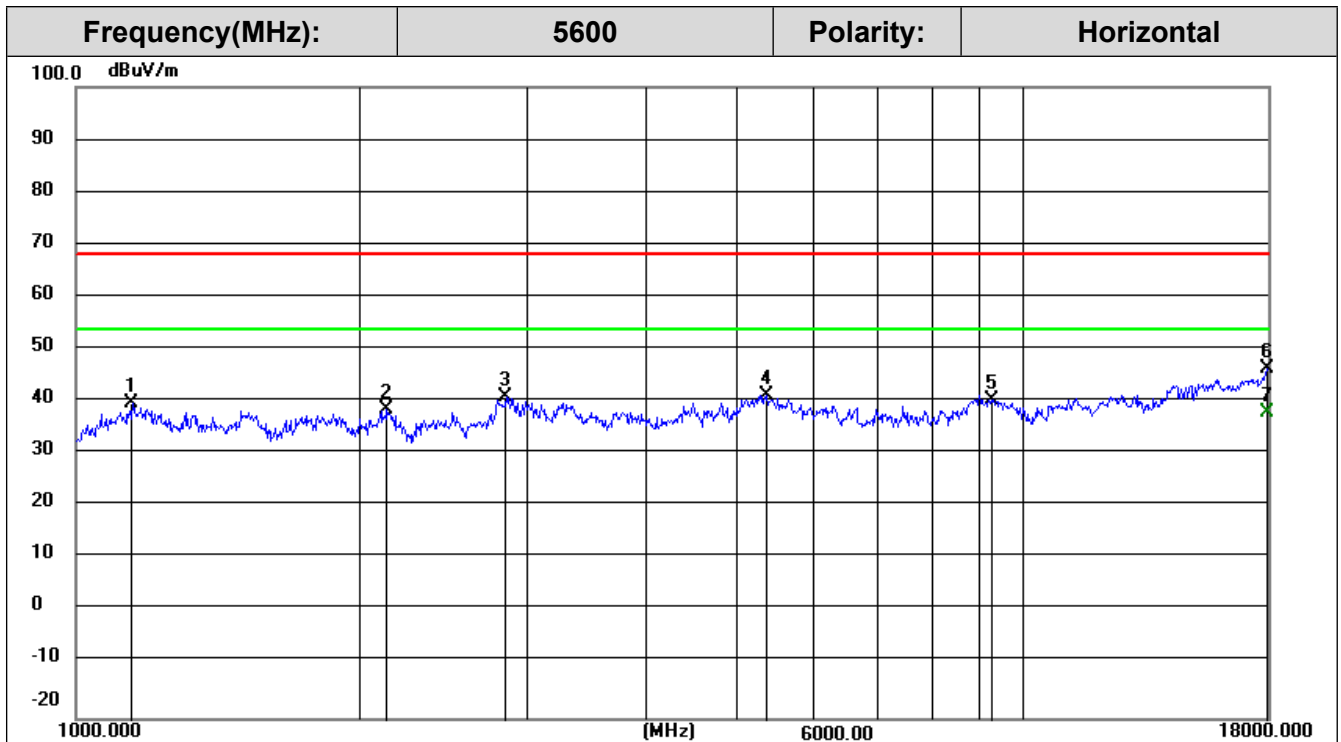
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1238.841        | 63.50            | -25.75         | 37.75           | 68.20          | -30.45      | peak   |
| 2   | 3232.326        | 61.96            | -19.10         | 42.86           | 68.20          | -25.34      | peak   |
| 3   | 5372.693        | 52.25            | -12.57         | 39.68           | 68.20          | -28.52      | peak   |
| 4   | 6750.851        | 50.48            | -8.57          | 41.91           | 68.20          | -26.29      | peak   |
| 5   | 12023.654       | 44.37            | -2.05          | 42.32           | 68.20          | -25.88      | peak   |
| 6   | 17994.798       | 35.90            | 9.41           | 45.31           | 68.20          | -22.89      | peak   |
| 7   | 17994.798       | 27.70            | 9.41           | 37.11           | 54.00          | -16.89      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

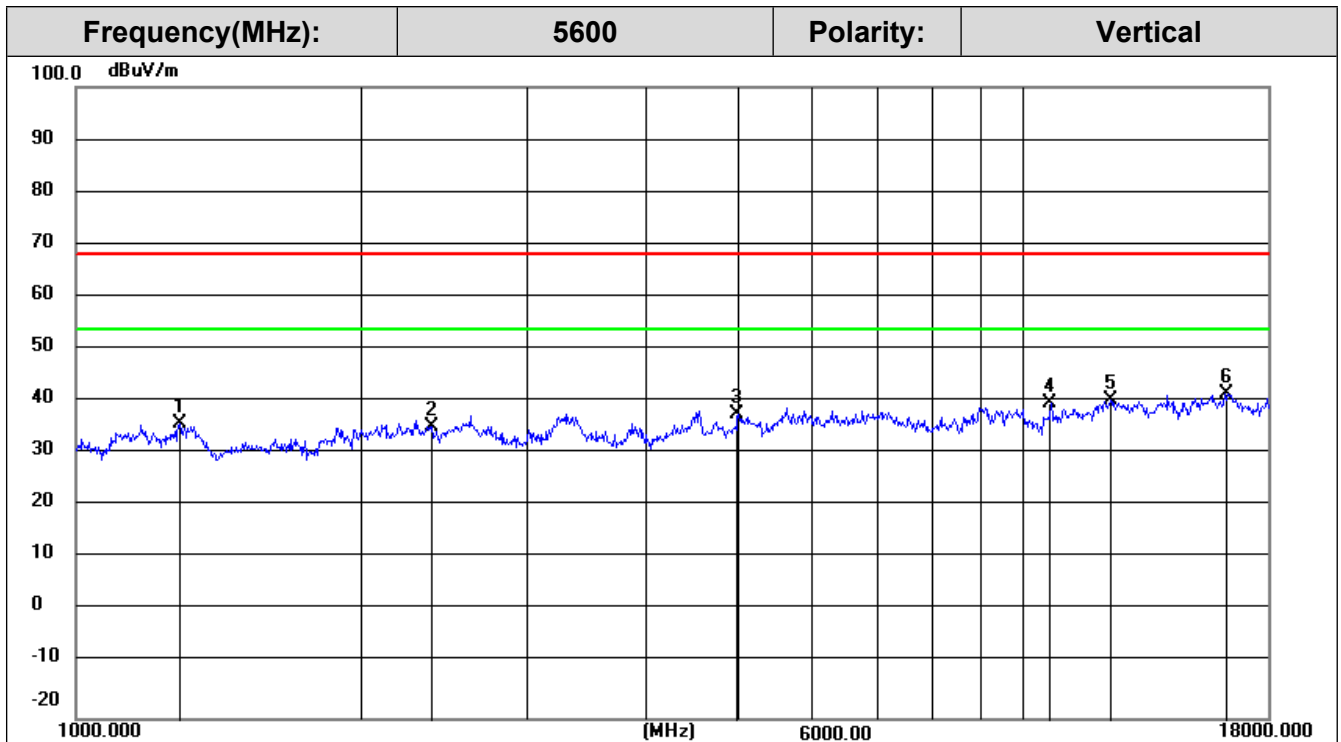
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1150.817        | 65.81            | -25.69         | 40.12           | 68.20          | -28.08      | peak   |
| 2   | 2131.846        | 61.37            | -22.60         | 38.77           | 68.20          | -29.43      | peak   |
| 3   | 2844.671        | 61.37            | -20.07         | 41.30           | 68.20          | -26.90      | peak   |
| 4   | 5369.588        | 54.08            | -12.57         | 41.51           | 68.20          | -26.69      | peak   |
| 5   | 9237.525        | 44.44            | -3.81          | 40.63           | 68.20          | -27.57      | peak   |
| 6   | 17994.798       | 37.23            | 9.41           | 46.64           | 68.20          | -21.56      | peak   |
| 7   | 17994.798       | 28.92            | 9.41           | 38.33           | 54.00          | -15.67      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

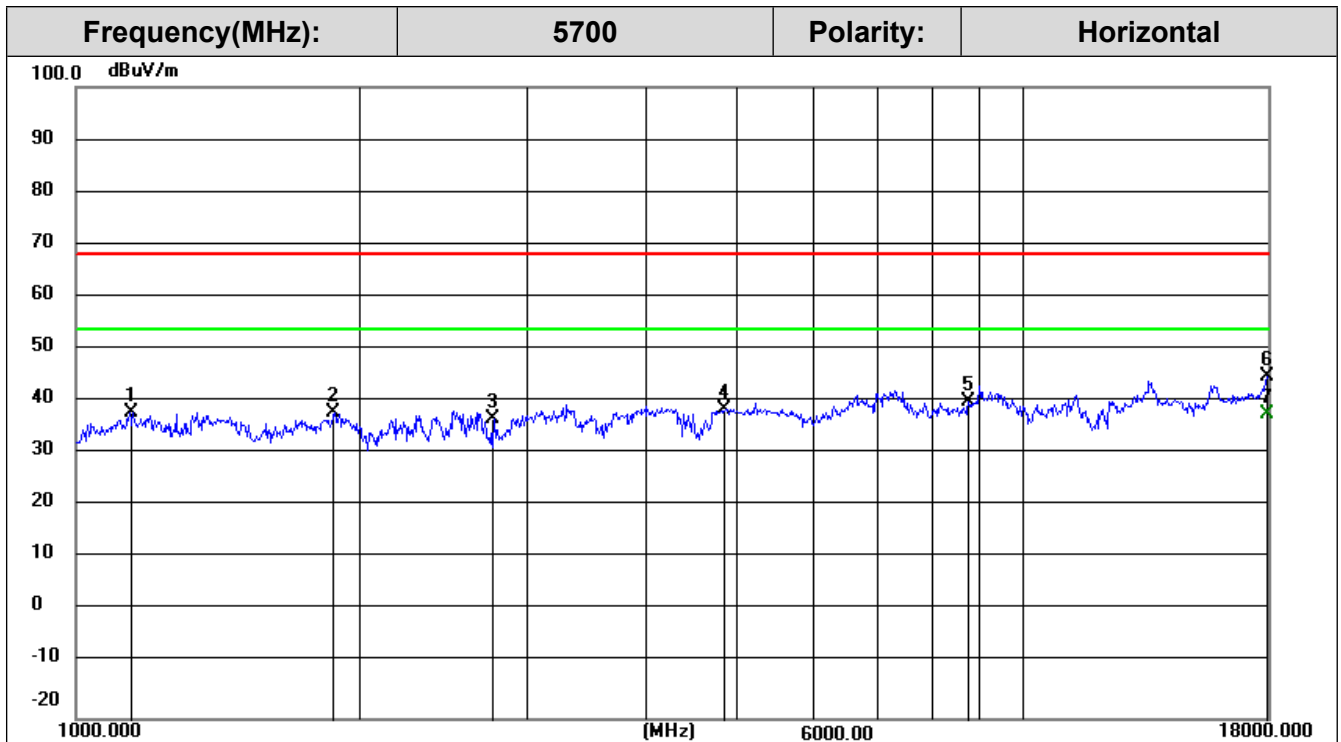
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1287.392        | 62.02            | -25.81         | 36.21           | 68.20          | -31.99      | peak   |
| 2   | 2377.276        | 57.57            | -21.90         | 35.67           | 68.20          | -32.53      | peak   |
| 3   | 4999.605        | 51.23            | -13.38         | 37.85           | 68.20          | -30.35      | peak   |
| 4   | 10642.997       | 41.46            | -1.58          | 39.88           | 68.20          | -28.32      | peak   |
| 5   | 12315.590       | 42.55            | -2.08          | 40.47           | 68.20          | -27.73      | peak   |
| 6   | 16357.728       | 42.34            | -0.59          | 41.75           | 68.20          | -26.45      | peak   |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

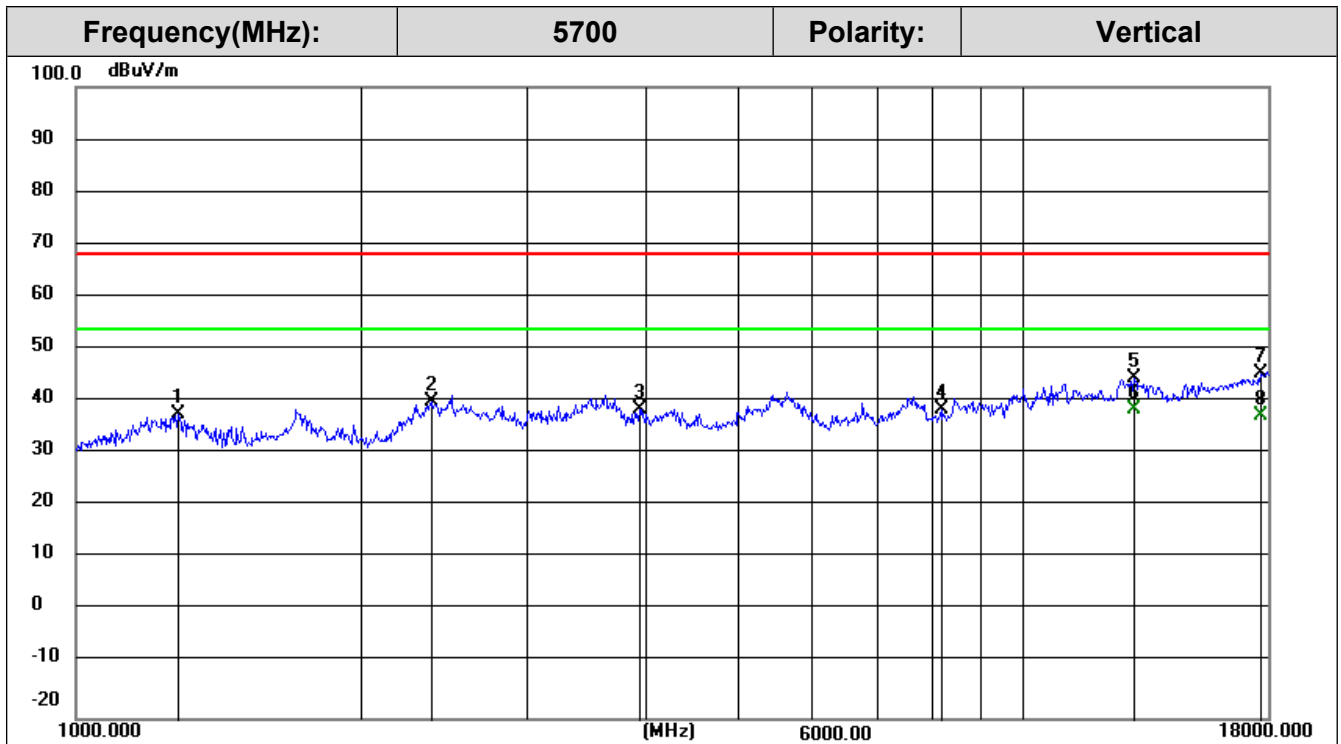
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1150.817        | 63.81            | -25.69         | 38.12           | 68.20          | -30.08      | peak   |
| 2   | 1875.088        | 61.77            | -23.64         | 38.13           | 68.20          | -30.07      | peak   |
| 3   | 2764.425        | 57.58            | -20.41         | 37.17           | 68.20          | -31.03      | peak   |
| 4   | 4847.349        | 52.92            | -14.06         | 38.86           | 68.20          | -29.34      | peak   |
| 5   | 8756.551        | 45.21            | -5.04          | 40.17           | 68.20          | -28.03      | peak   |
| 6   | 17994.798       | 35.73            | 9.41           | 45.14           | 68.20          | -23.06      | peak   |
| 7   | 17994.798       | 28.58            | 9.41           | 37.99           | 54.00          | -16.01      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

Emission Level = Reading + Factor;

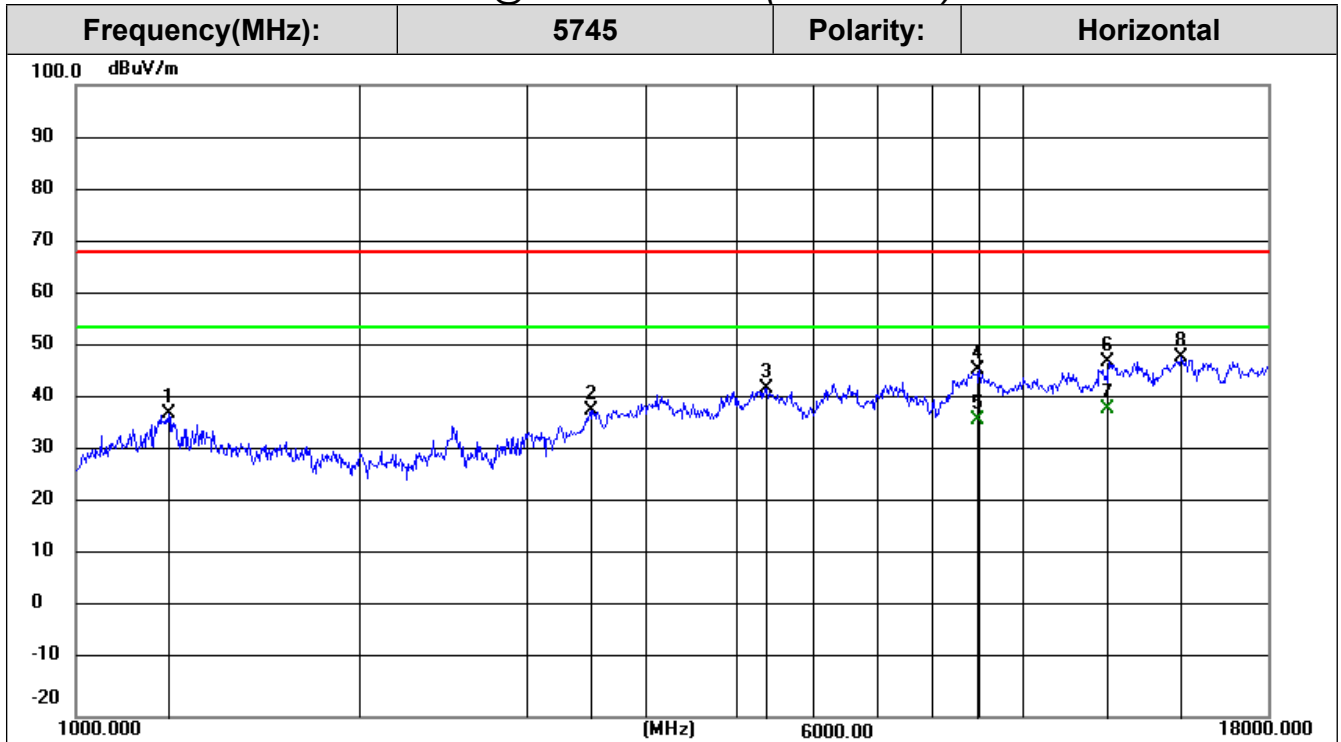
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1285.533        | 63.74            | -25.81         | 37.93           | 68.20          | -30.27      | peak   |
| 2   | 2377.276        | 62.07            | -21.90         | 40.17           | 68.20          | -28.03      | peak   |
| 3   | 3940.046        | 56.14            | -17.30         | 38.84           | 68.20          | -29.36      | peak   |
| 4   | 8174.432        | 46.09            | -7.34          | 38.75           | 68.20          | -29.45      | peak   |
| 5   | 13048.503       | 46.97            | -2.15          | 44.82           | 68.20          | -23.38      | peak   |
| 6   | 13048.503       | 40.92            | -2.15          | 38.77           | 54.00          | -15.23      | AVG    |
| 7   | 17767.396       | 38.57            | 7.08           | 45.65           | 68.20          | -22.55      | peak   |
| 8   | 17767.396       | 30.58            | 7.08           | 37.66           | 54.00          | -16.34      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.

### U-NII 3 @ 802.11n20 MIMO (above 1GHz)



Remark:

Filter is used

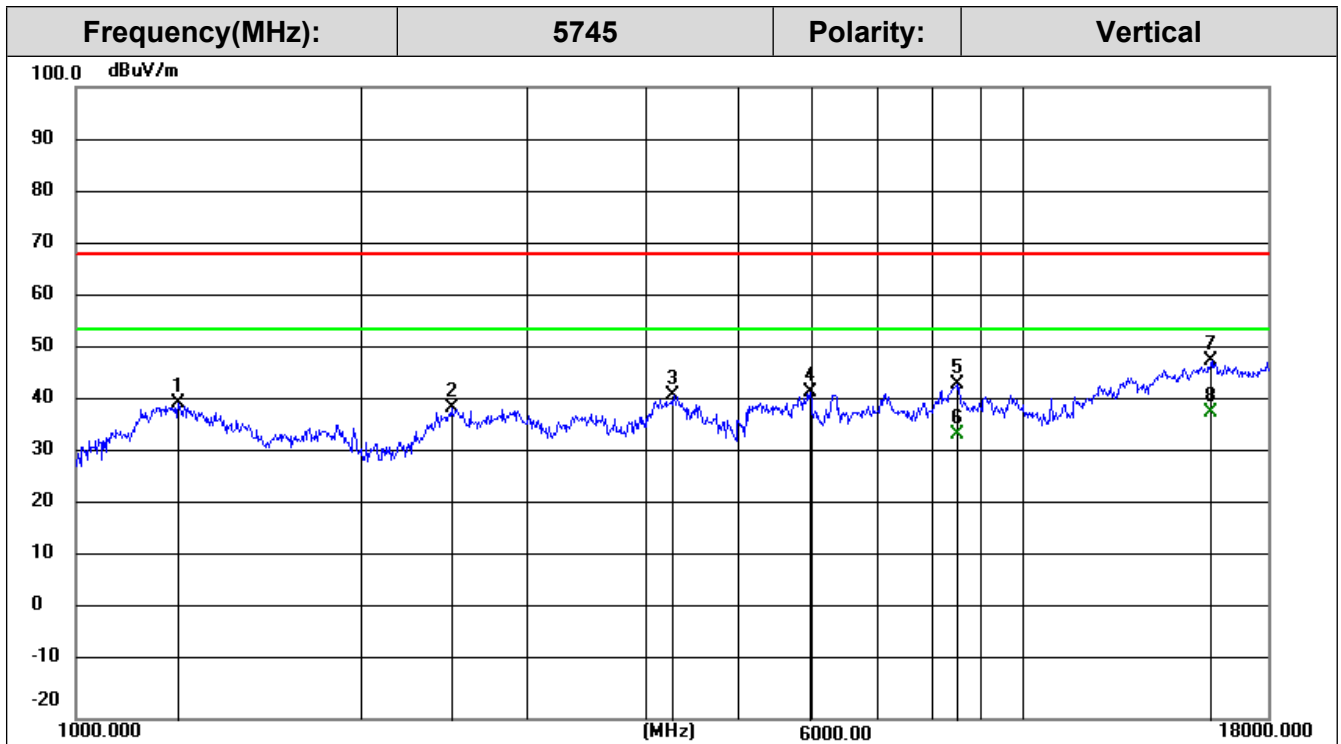
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1253.610           | 63.28               | -25.77            | 37.51              | 68.20             | -30.69         | peak   |
| 2   | 3511.894           | 56.93               | -18.70            | 38.23              | 68.20             | -29.97         | peak   |
| 3   | 5369.588           | 55.08               | -12.57            | 42.51              | 68.20             | -25.69         | peak   |
| 4   | 8956.208           | 50.11               | -4.24             | 45.87              | 68.20             | -22.33         | peak   |
| 5   | 8956.208           | 40.67               | -4.24             | 36.43              | 54.00             | -17.57         | AVG    |
| 6   | 12269.401          | 49.52               | -2.08             | 47.44              | 68.20             | -20.76         | peak   |
| 7   | 12269.401          | 40.71               | -2.08             | 38.63              | 54.00             | -15.37         | AVG    |
| 8   | 14605.496          | 48.59               | -0.32             | 48.27              | 68.20             | -19.93         | peak   |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

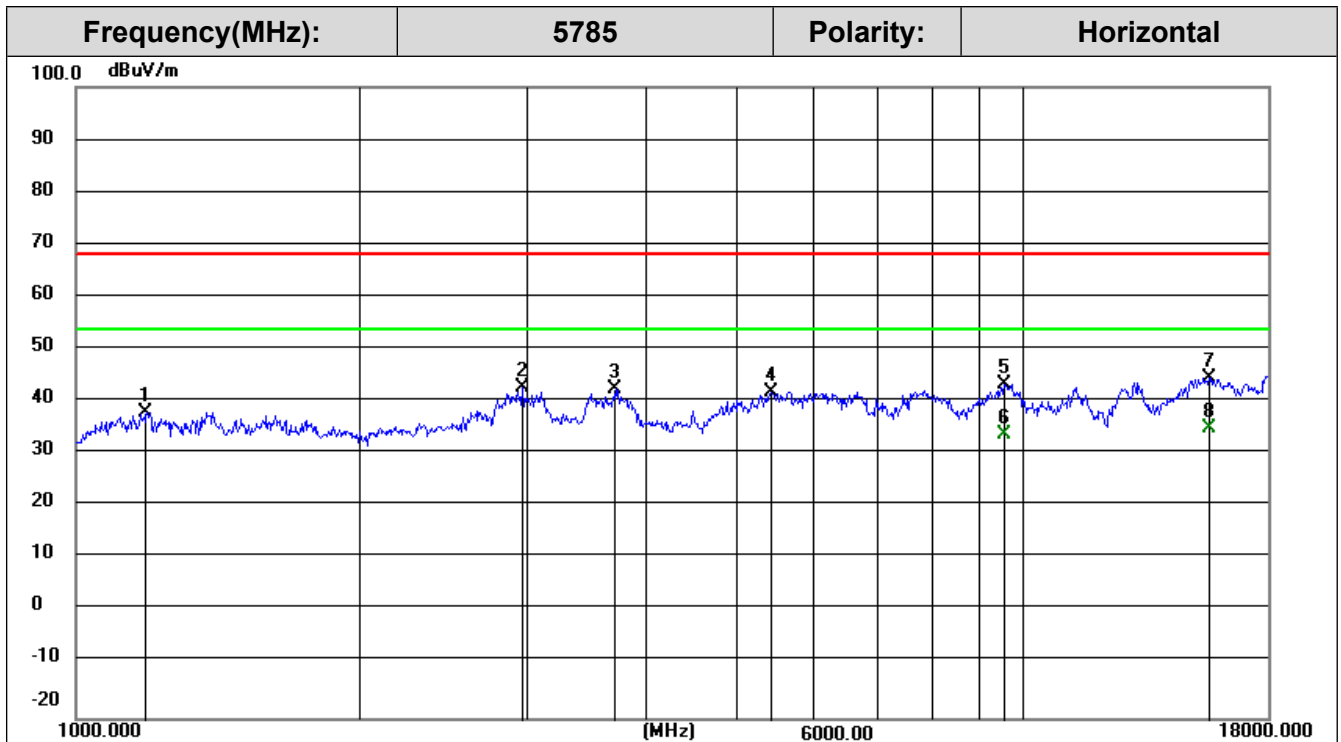
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1285.533           | 65.74               | -25.81            | 39.93              | 68.20             | -28.27         | peak   |
| 2   | 2494.840           | 60.53               | -21.57            | 38.96              | 68.20             | -29.24         | peak   |
| 3   | 4278.352           | 57.60               | -16.26            | 41.34              | 68.20             | -26.86         | peak   |
| 4   | 5946.372           | 53.88               | -11.71            | 42.17              | 68.20             | -26.03         | peak   |
| 5   | 8480.072           | 49.76               | -6.16             | 43.60              | 68.20             | -24.60         | peak   |
| 6   | 8480.072           | 40.07               | -6.16             | 33.91              | 54.00             | -20.09         | AVG    |
| 7   | 15749.940          | 48.51               | -0.56             | 47.95              | 68.20             | -20.25         | peak   |
| 8   | 15749.940          | 38.65               | -0.56             | 38.09              | 54.00             | -15.91         | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

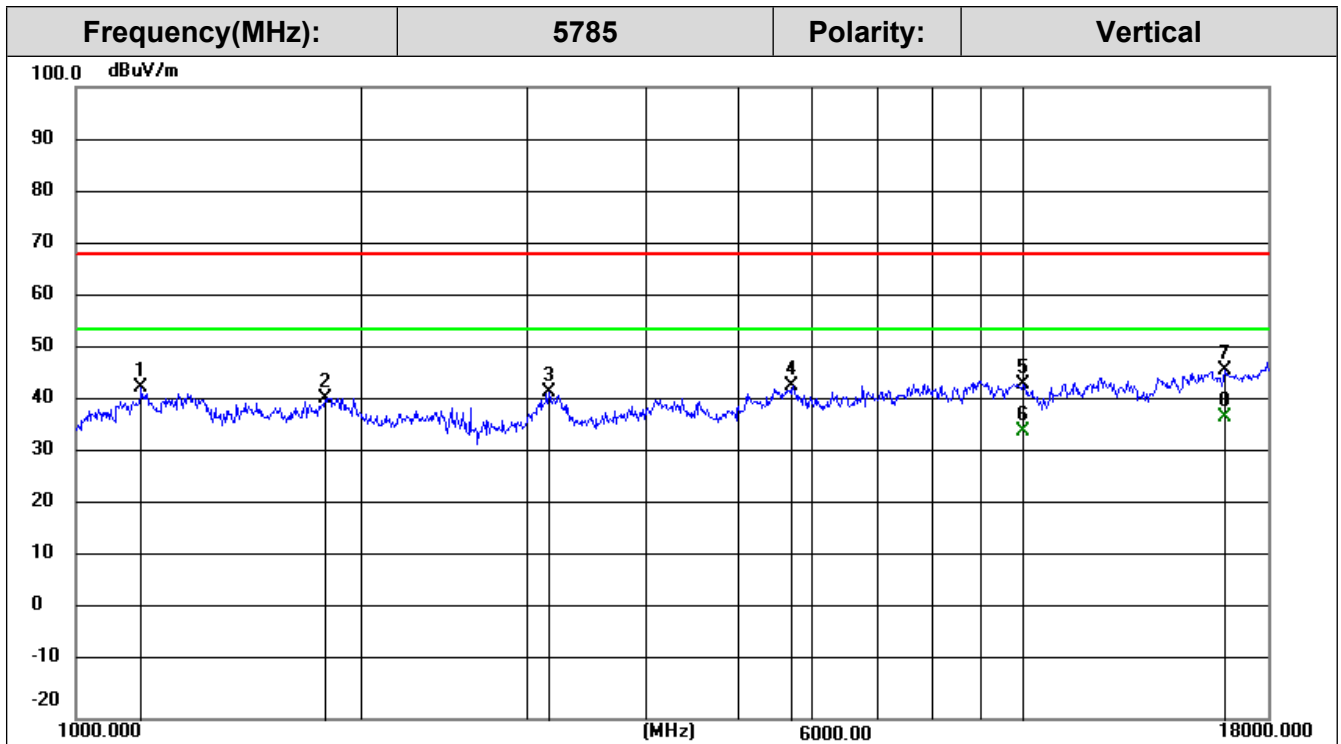
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1192.121        | 63.87            | -25.70         | 38.17           | 68.20          | -30.03      | peak   |
| 2   | 2965.569        | 62.63            | -19.55         | 43.08           | 68.20          | -25.12      | peak   |
| 3   | 3710.151        | 60.71            | -18.06         | 42.65           | 68.20          | -25.55      | peak   |
| 4   | 5413.221        | 54.55            | -12.47         | 42.08           | 68.20          | -26.12      | peak   |
| 5   | 9546.974        | 47.09            | -3.49          | 43.60           | 68.20          | -24.60      | peak   |
| 6   | 9546.974        | 37.43            | -3.49          | 33.94           | 54.00          | -20.06      | AVG    |
| 7   | 15659.157       | 45.35            | -0.56          | 44.79           | 68.20          | -23.41      | peak   |
| 8   | 15659.157       | 35.72            | -0.56          | 35.16           | 54.00          | -18.84      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

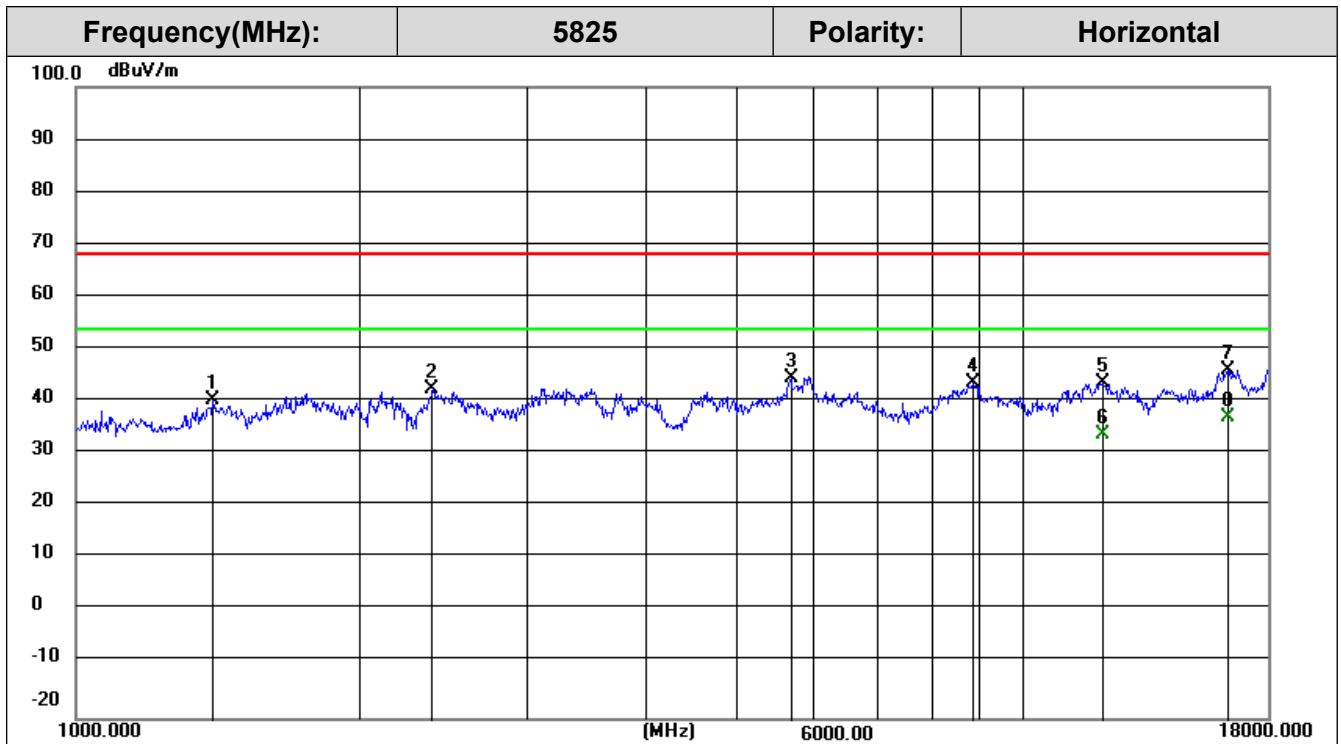
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1173.999        | 68.61            | -25.69         | 42.92           | 68.20          | -25.28      | peak   |
| 2   | 1838.594        | 64.79            | -23.84         | 40.95           | 68.20          | -27.25      | peak   |
| 3   | 3156.617        | 61.15            | -19.20         | 41.95           | 68.20          | -26.25      | peak   |
| 4   | 5710.554        | 55.33            | -12.02         | 43.31           | 68.20          | -24.89      | peak   |
| 5   | 9946.965        | 46.79            | -3.11          | 43.68           | 68.20          | -24.52      | peak   |
| 6   | 9946.965        | 37.70            | -3.11          | 34.59           | 54.00          | -19.41      | AVG    |
| 7   | 16282.255       | 46.78            | -0.58          | 46.20           | 68.20          | -22.00      | peak   |
| 8   | 16282.255       | 37.76            | -0.58          | 37.18           | 54.00          | -16.82      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

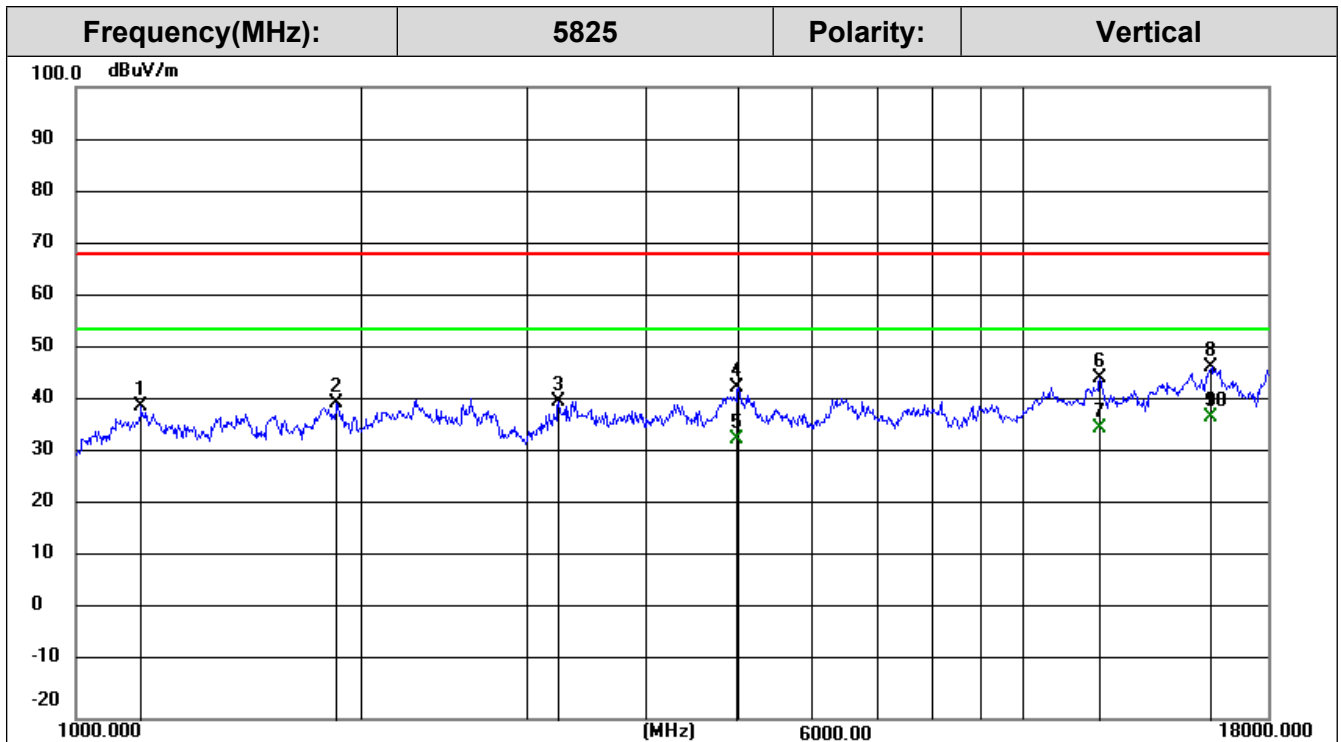
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1398.336        | 66.70            | -25.97         | 40.73           | 68.20          | -27.47      | peak   |
| 2   | 2386.915        | 64.54            | -21.88         | 42.66           | 68.20          | -25.54      | peak   |
| 3   | 5664.525        | 56.94            | -12.07         | 44.87           | 68.20          | -23.33      | peak   |
| 4   | 8835.363        | 48.46            | -4.73          | 43.73           | 68.20          | -24.47      | peak   |
| 5   | 12096.856       | 45.96            | -2.07          | 43.89           | 68.20          | -24.31      | peak   |
| 6   | 12096.856       | 36.23            | -2.07          | 34.16           | 54.00          | -19.84      | AVG    |
| 7   | 16386.121       | 46.96            | -0.60          | 46.36           | 68.20          | -21.84      | peak   |
| 8   | 16386.121       | 37.81            | -0.60          | 37.21           | 54.00          | -16.79      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

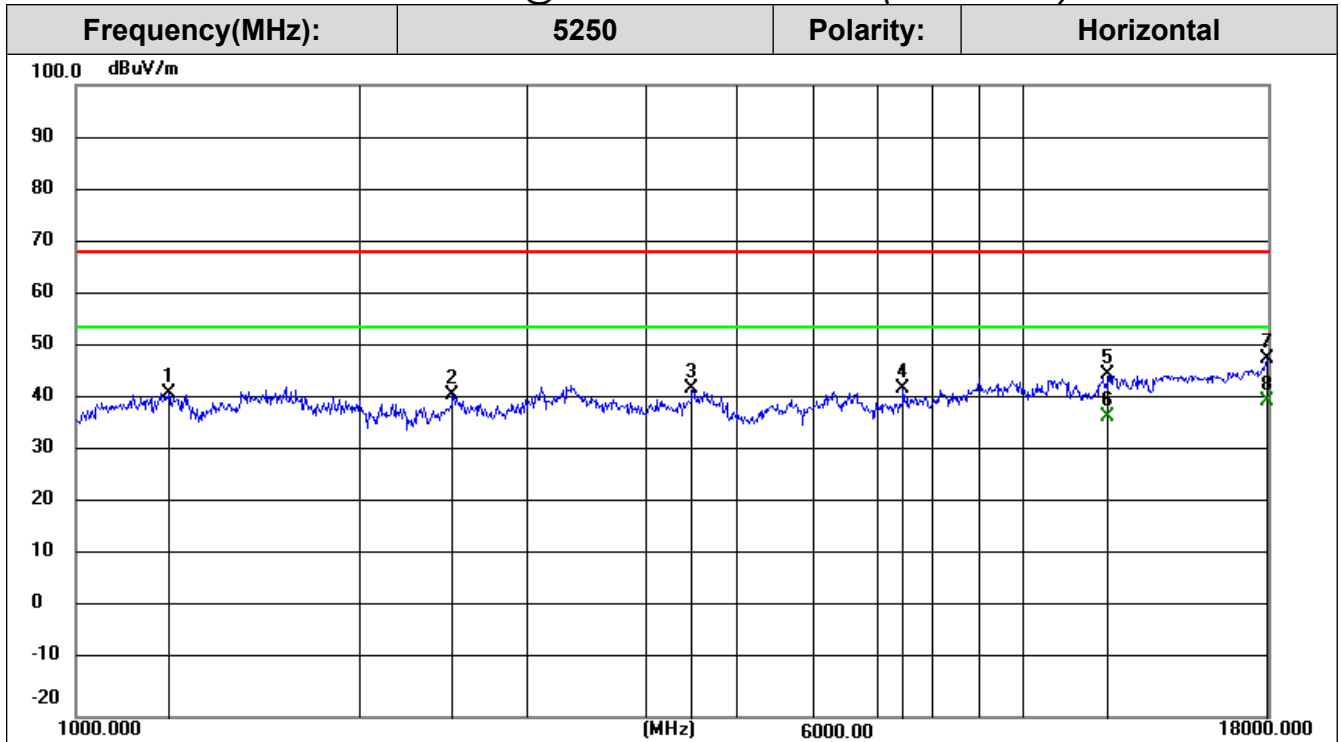
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1173.999        | 65.11            | -25.69         | 39.42           | 68.20          | -28.78      | peak   |
| 2   | 1887.595        | 63.55            | -23.58         | 39.97           | 68.20          | -28.23      | peak   |
| 3   | 3232.326        | 59.46            | -19.10         | 40.36           | 68.20          | -27.84      | peak   |
| 4   | 4999.605        | 56.23            | -13.38         | 42.85           | 68.20          | -25.35      | peak   |
| 5   | 4999.605        | 46.43            | -13.38         | 33.05           | 54.00          | -20.95      | AVG    |
| 6   | 12023.654       | 46.87            | -2.05          | 44.82           | 68.20          | -23.38      | peak   |
| 7   | 12023.654       | 37.24            | -2.05          | 35.19           | 54.00          | -18.81      | AVG    |
| 8   | 15749.940       | 47.51            | -0.56          | 46.95           | 68.20          | -21.25      | peak   |
| 9   | 15749.940       | 38.02            | -0.56          | 37.46           | 54.00          | -16.54      | AVG    |
| 10  | 15749.940       | 38.02            | -0.56          | 37.46           | 54.00          | -16.54      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.

**U-NII 1 + U-NII 2A @ 802.11n20 MIMO mode (above 1GHz)**


Remark:

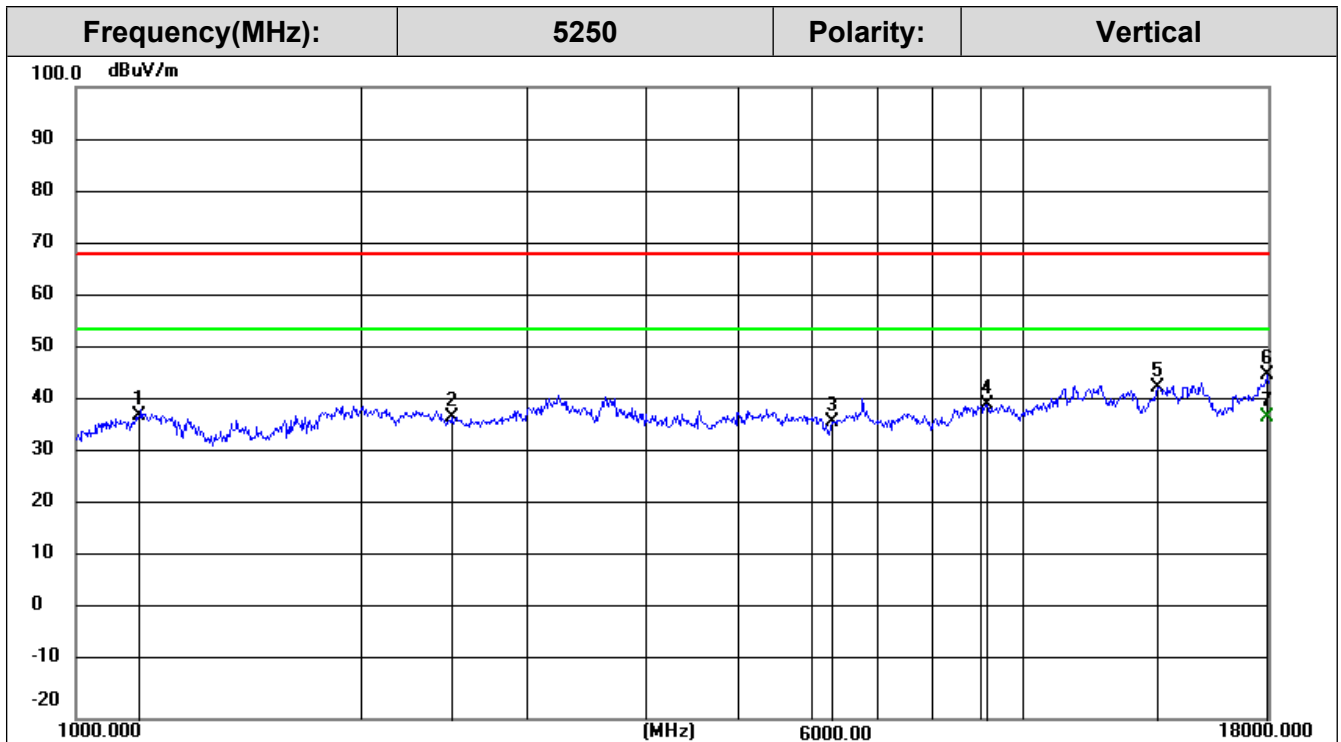
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1253.610        | 67.28            | -25.77         | 41.51           | 68.20          | -26.69      | peak   |
| 2   | 2495.561        | 62.67            | -21.57         | 41.10           | 68.20          | -27.10      | peak   |
| 3   | 4483.446        | 58.16            | -15.65         | 42.51           | 68.20          | -25.69      | peak   |
| 4   | 7465.210        | 49.67            | -7.20          | 42.47           | 68.20          | -25.73      | peak   |
| 5   | 12269.401       | 47.02            | -2.08          | 44.94           | 68.20          | -23.26      | peak   |
| 6   | 12269.401       | 39.19            | -2.08          | 37.11           | 54.00          | -16.89      | AVG    |
| 7   | 17994.798       | 38.73            | 9.41           | 48.14           | 68.20          | -20.06      | peak   |
| 8   | 17994.798       | 30.59            | 9.41           | 40.00           | 54.00          | -14.00      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

Emission Level = Reading + Factor;

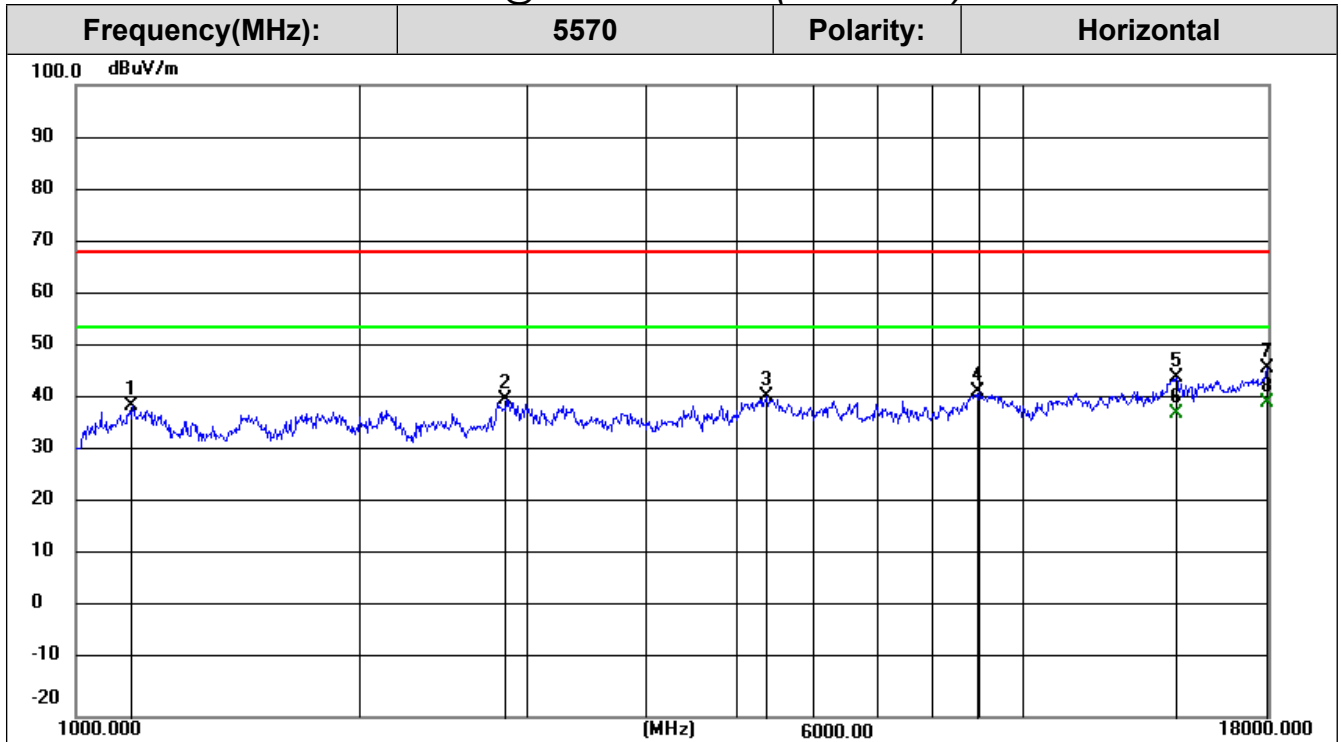
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1168.582        | 63.26            | -25.68         | 37.58           | 68.20          | -30.62      | peak   |
| 2   | 2494.840        | 59.03            | -21.57         | 37.46           | 68.20          | -30.74      | peak   |
| 3   | 6262.121        | 47.01            | -10.46         | 36.55           | 68.20          | -31.65      | peak   |
| 4   | 9168.365        | 43.64            | -3.89          | 39.75           | 68.20          | -28.45      | peak   |
| 5   | 13793.101       | 43.58            | -0.49          | 43.09           | 68.20          | -25.11      | peak   |
| 6   | 17994.798       | 35.90            | 9.41           | 45.31           | 68.20          | -22.89      | peak   |
| 7   | 17994.798       | 27.85            | 9.41           | 37.26           | 54.00          | -16.74      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.

### U-NII 2C @ 802.11n20 MIMO (above 1GHz)



Remark:

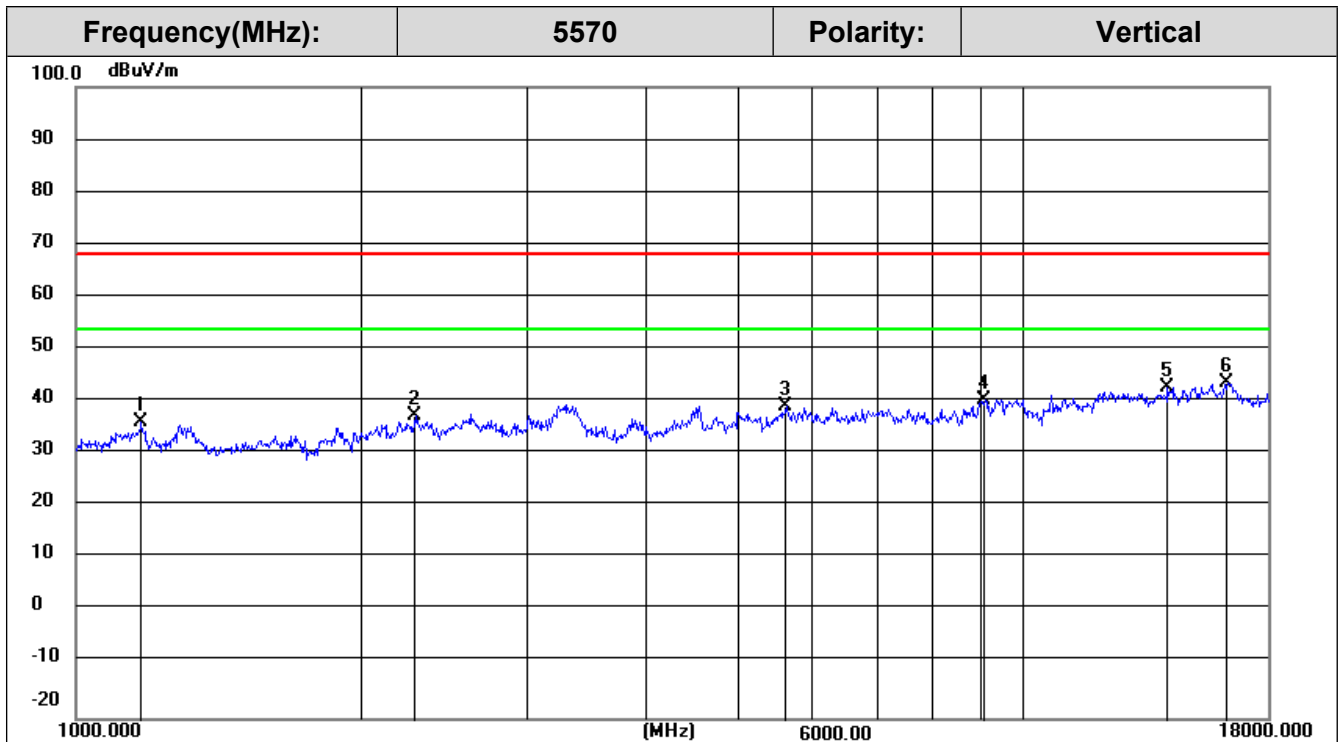
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1150.817        | 64.81            | -25.69         | 39.12           | 68.20          | -29.08      | peak   |
| 2   | 2844.671        | 60.37            | -20.07         | 40.30           | 68.20          | -27.90      | peak   |
| 3   | 5369.588        | 53.58            | -12.57         | 41.01           | 68.20          | -27.19      | peak   |
| 4   | 8956.208        | 46.11            | -4.24          | 41.87           | 68.20          | -26.33      | peak   |
| 5   | 14441.781       | 44.63            | -0.21          | 44.42           | 68.20          | -23.78      | peak   |
| 6   | 14441.781       | 37.76            | -0.21          | 37.55           | 54.00          | -16.45      | AVG    |
| 7   | 17994.798       | 36.73            | 9.41           | 46.14           | 68.20          | -22.06      | peak   |
| 8   | 17994.798       | 30.25            | 9.41           | 39.66           | 54.00          | -14.34      | AVG    |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.



Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

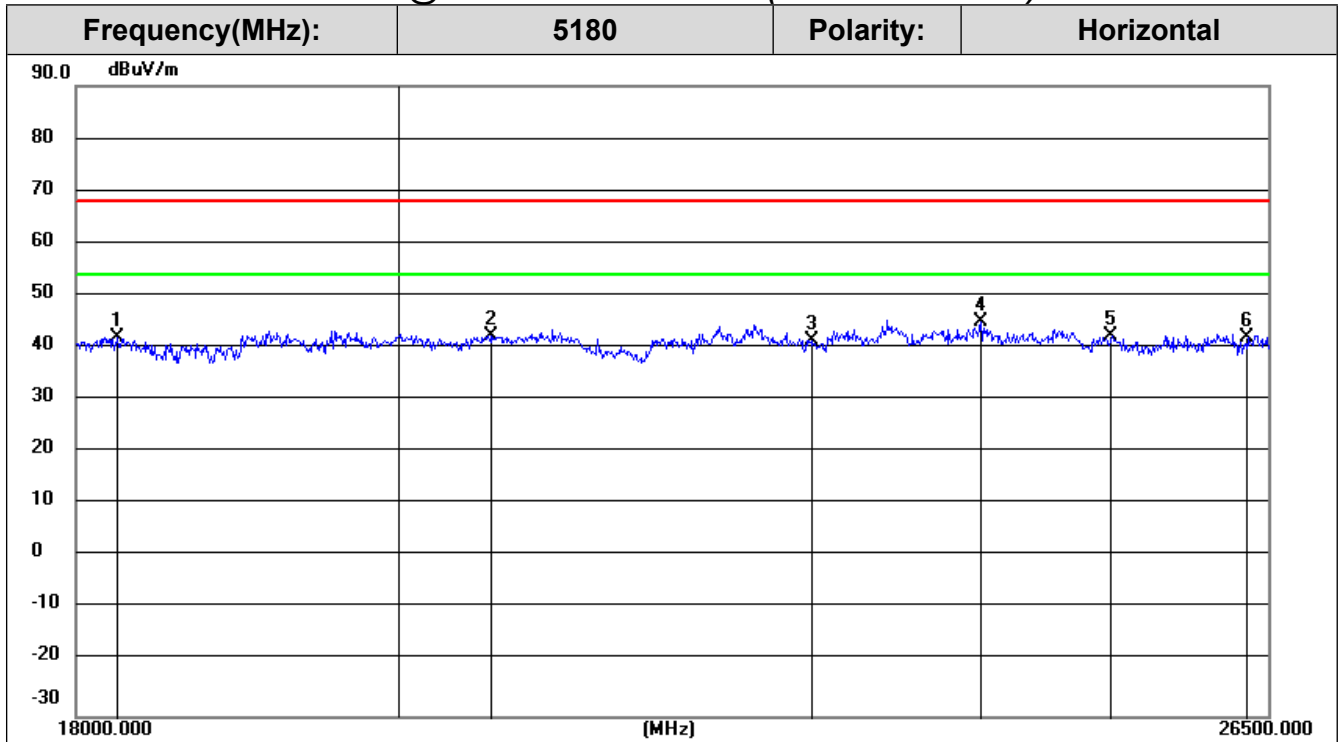
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1173.999        | 62.11            | -25.69         | 36.42           | 68.20          | -31.78      | peak   |
| 2   | 2287.623        | 59.83            | -22.17         | 37.66           | 68.20          | -30.54      | peak   |
| 3   | 5605.889        | 51.67            | -12.15         | 39.52           | 68.20          | -28.68      | peak   |
| 4   | 9099.723        | 44.61            | -3.96          | 40.65           | 68.20          | -27.55      | peak   |
| 5   | 14185.284       | 42.96            | -0.03          | 42.93           | 68.20          | -25.27      | peak   |
| 6   | 16357.728       | 44.34            | -0.59          | 43.75           | 68.20          | -24.45      | peak   |

Note: A filter was used to exclude fundamental during the test to prevent overloading the testing equipment.

### For above 18GHz

Remark: Pre-scan all WIFI operation modes, and no spurious found, only one channel plots recorded below represent the worst scenario.

#### U-NII 1 @ 802.11n20 mode MIMO (above 18-26.5GHz)



Remark:

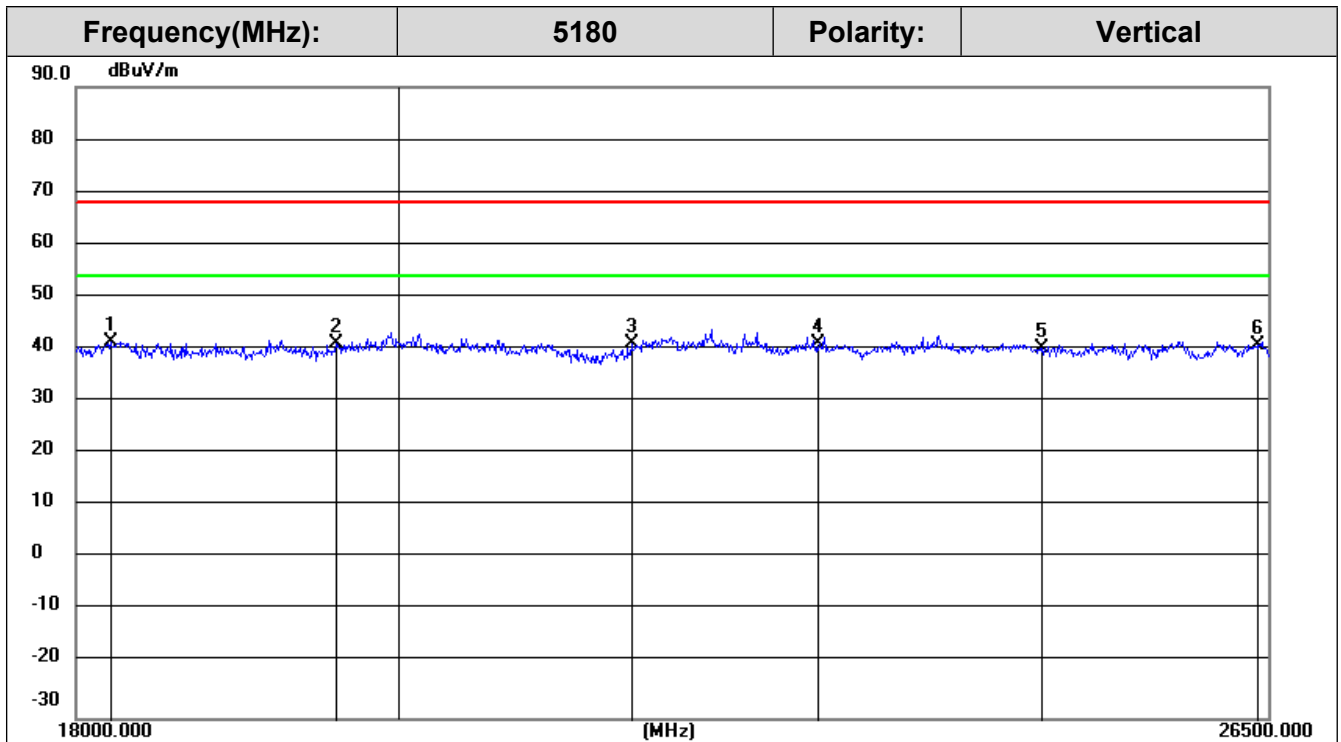
Filter is used

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 18248.147          | 60.63               | -18.36            | 42.27              | 68.20             | -25.93         | peak   |
| 2   | 20595.751          | 58.86               | -16.49            | 42.37              | 68.20             | -25.83         | peak   |
| 3   | 22855.781          | 58.97               | -17.23            | 41.74              | 68.20             | -26.46         | peak   |
| 4   | 24144.304          | 60.77               | -15.62            | 45.15              | 68.20             | -23.05         | peak   |
| 5   | 25200.510          | 59.06               | -16.56            | 42.50              | 68.20             | -25.70         | peak   |
| 6   | 26332.440          | 57.44               | -15.24            | 42.20              | 68.20             | -26.00         | peak   |



Remark:

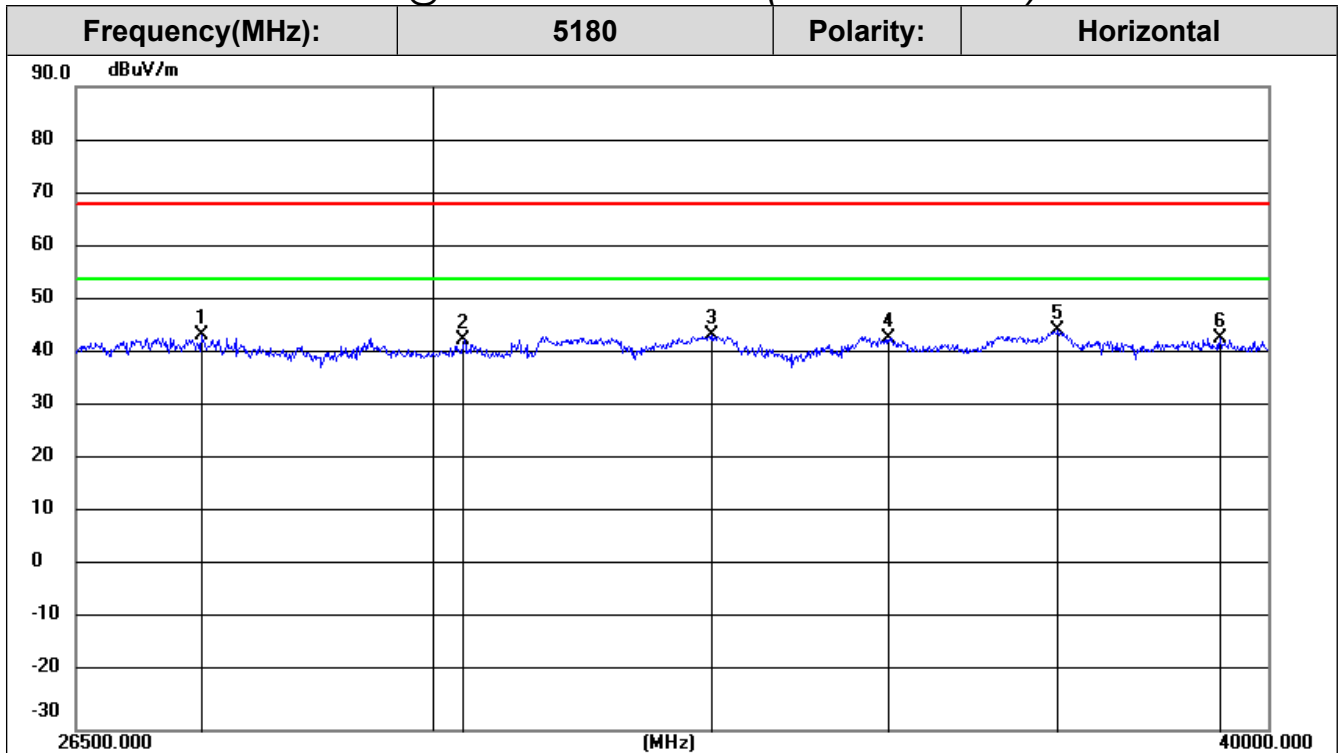
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 18209.370       | 59.97            | -18.38         | 41.59           | 68.20          | -26.61      | peak   |
| 2   | 19596.398       | 58.44            | -17.20         | 41.24           | 68.20          | -26.96      | peak   |
| 3   | 21560.840       | 58.59            | -17.13         | 41.46           | 68.20          | -26.74      | peak   |
| 4   | 22915.085       | 58.59            | -17.22         | 41.37           | 68.20          | -26.83      | peak   |
| 5   | 24639.579       | 56.72            | -16.17         | 40.55           | 68.20          | -27.65      | peak   |
| 6   | 26409.958       | 56.26            | -15.15         | 41.11           | 68.20          | -27.09      | peak   |

### U-NII 1 @ 802.11n20 mode MIMO (above 26.5-40GHz)



Remark:

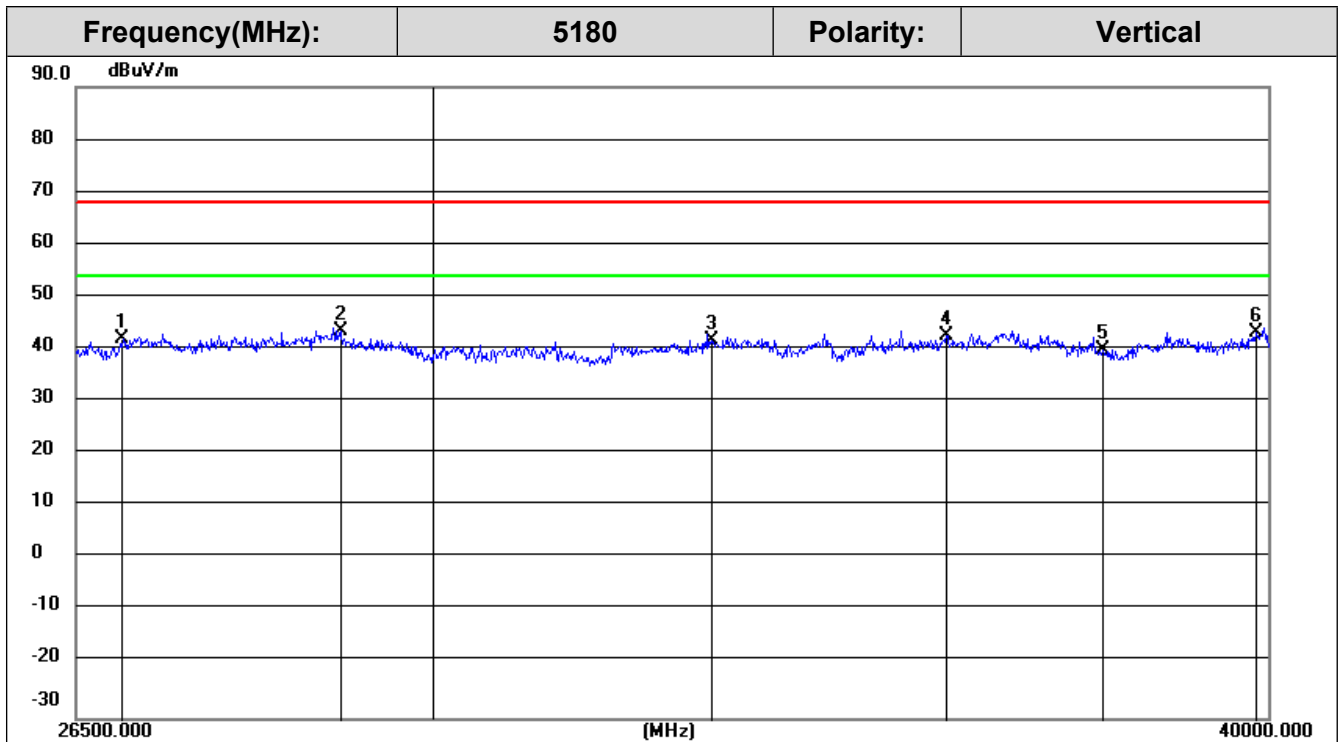
Filter is used

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 27679.893          | 58.05               | -14.44            | 43.61              | 68.20             | -24.59         | peak   |
| 2   | 30310.487          | 57.49               | -14.77            | 42.72              | 68.20             | -25.48         | peak   |
| 3   | 33020.698          | 57.09               | -13.54            | 43.55              | 68.20             | -24.65         | peak   |
| 4   | 35109.897          | 55.79               | -12.75            | 43.04              | 68.20             | -25.16         | peak   |
| 5   | 37216.177          | 57.37               | -12.83            | 44.54              | 68.20             | -23.66         | peak   |
| 6   | 39349.860          | 55.05               | -12.08            | 42.97              | 68.20             | -25.23         | peak   |



Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

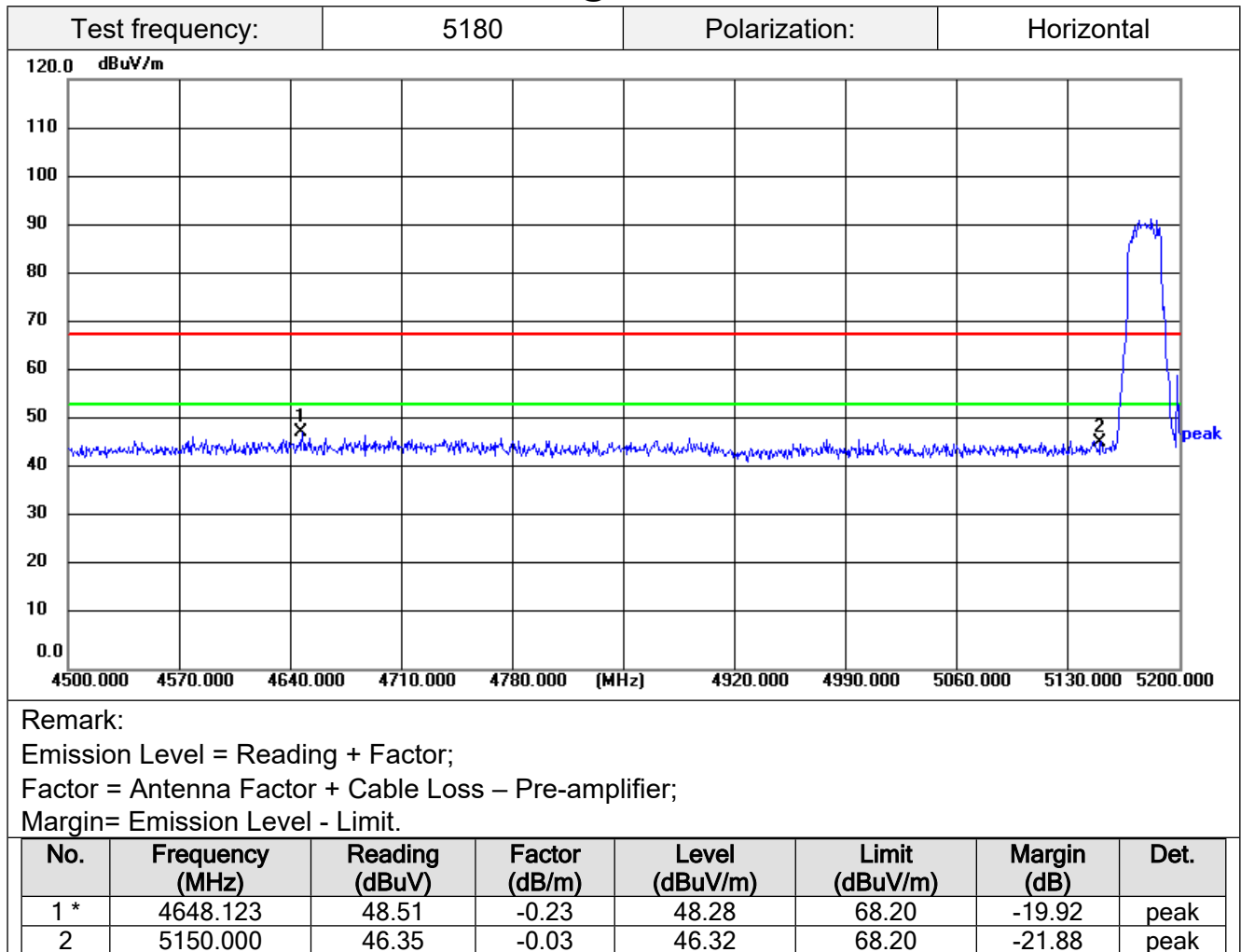
Margin= Emission Level - Limit.

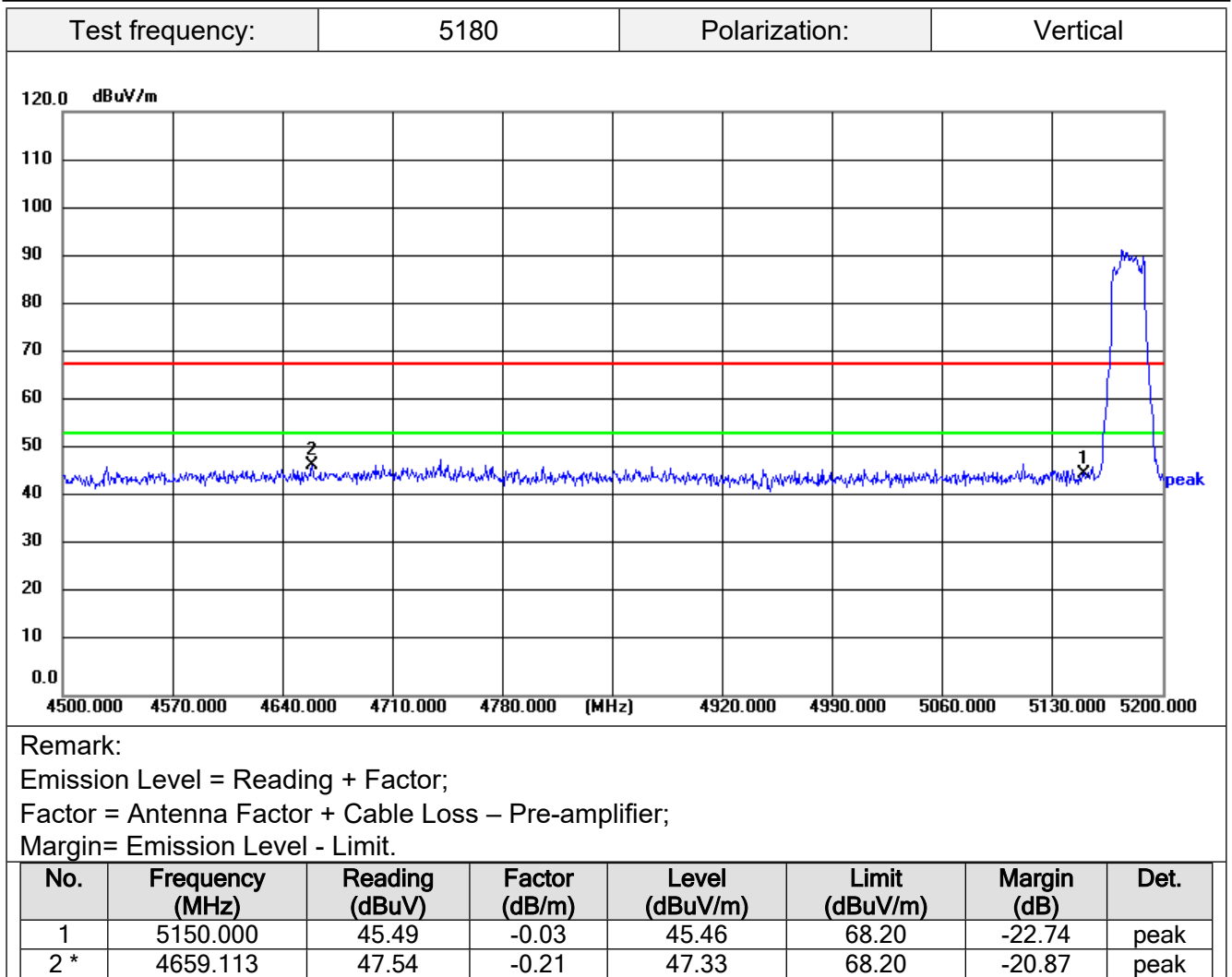
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 26945.599       | 56.98            | -14.80         | 42.18           | 68.20          | -26.02      | peak   |
| 2   | 29045.955       | 58.34            | -14.62         | 43.72           | 68.20          | -24.48      | peak   |
| 3   | 33007.106       | 55.57            | -13.55         | 42.02           | 68.20          | -26.18      | peak   |
| 4   | 35798.892       | 55.85            | -13.11         | 42.74           | 68.20          | -25.46      | peak   |
| 5   | 37796.812       | 52.85            | -12.75         | 40.10           | 68.20          | -28.10      | peak   |
| 6   | 39847.128       | 54.47            | -11.21         | 43.26           | 68.20          | -24.94      | peak   |

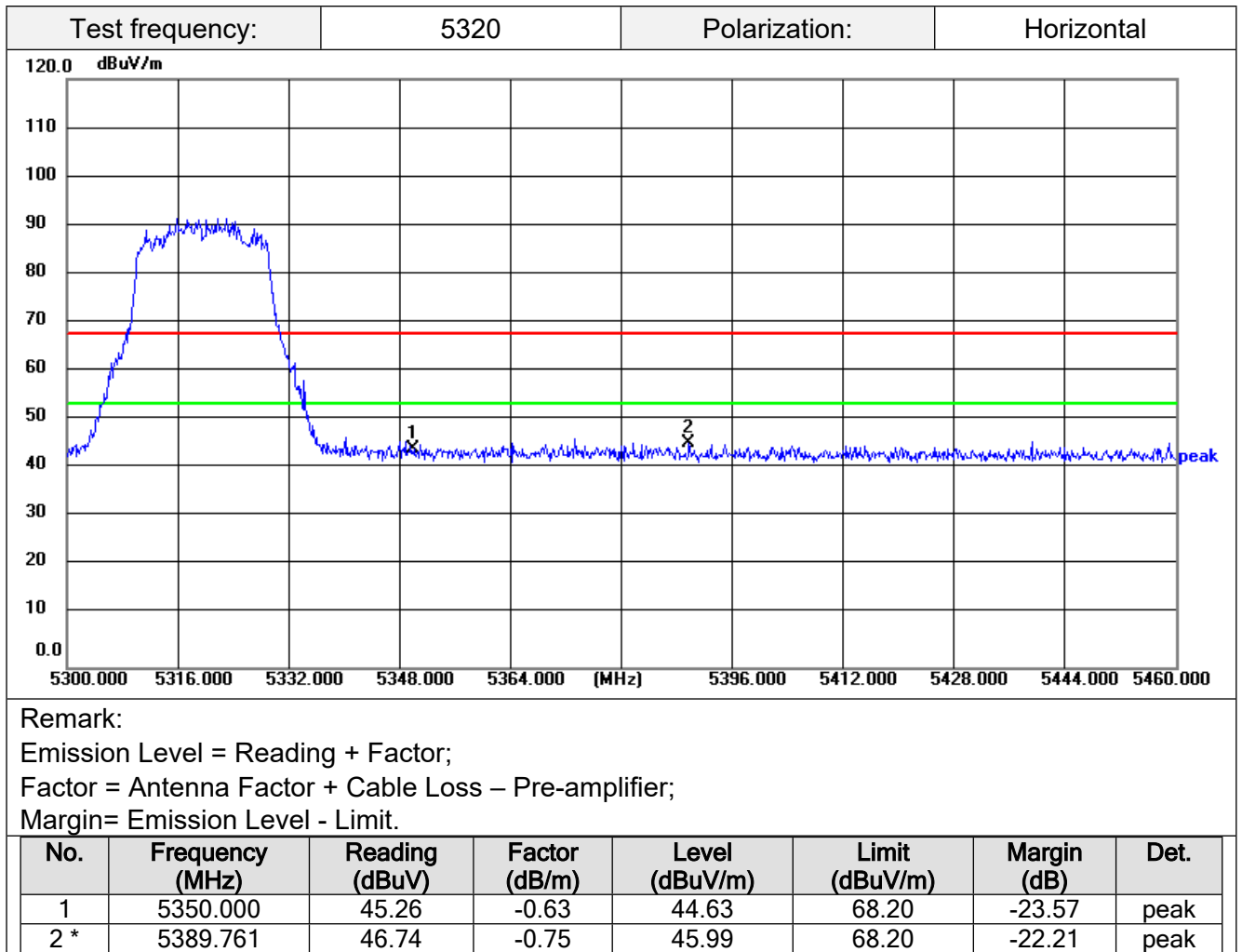
## Radiated Emission Band Edge

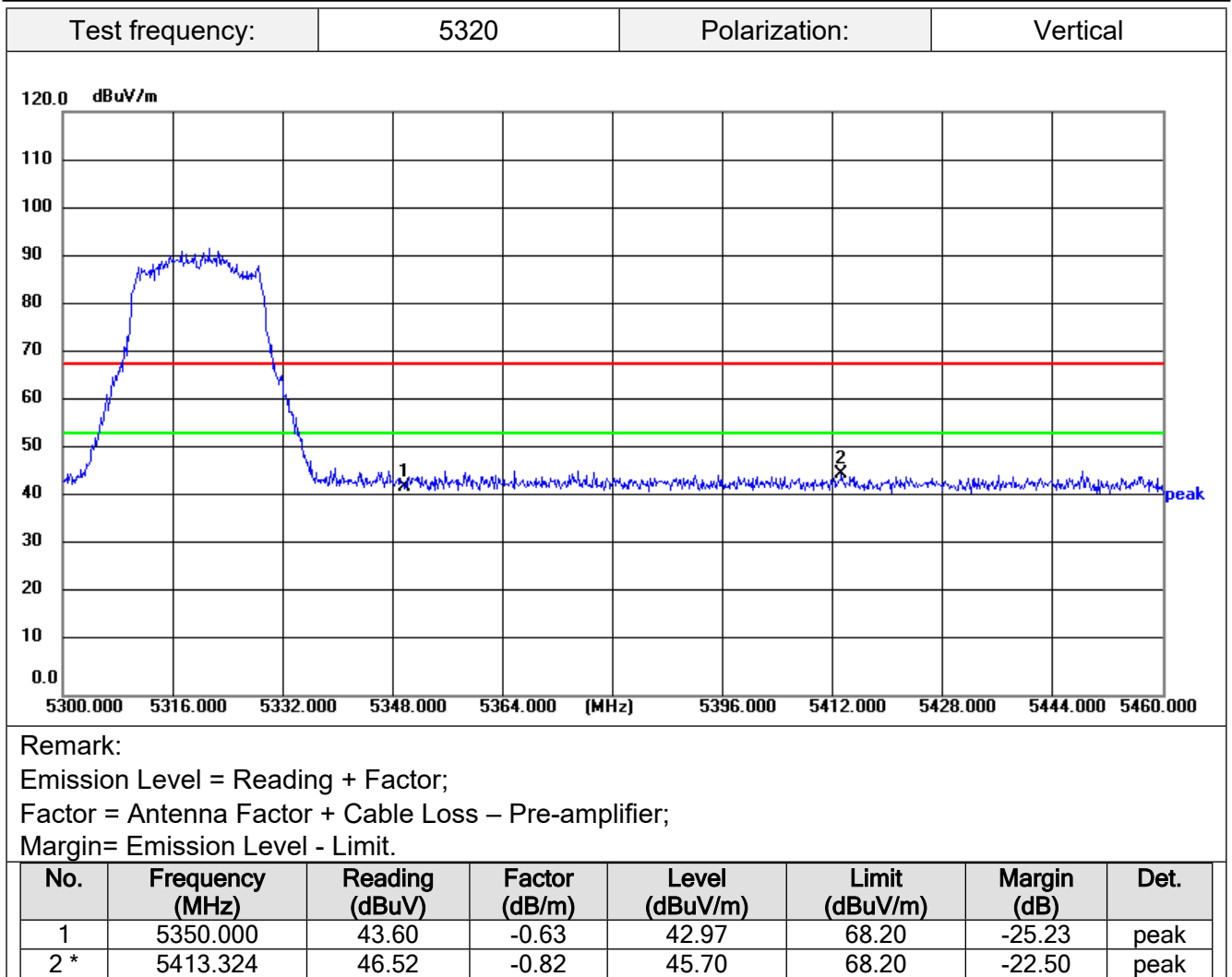
Remark: All WIFI operation modes have been tested for Radiated Emission Band Edge test, only the worst case of each band was recorded was reported as below:

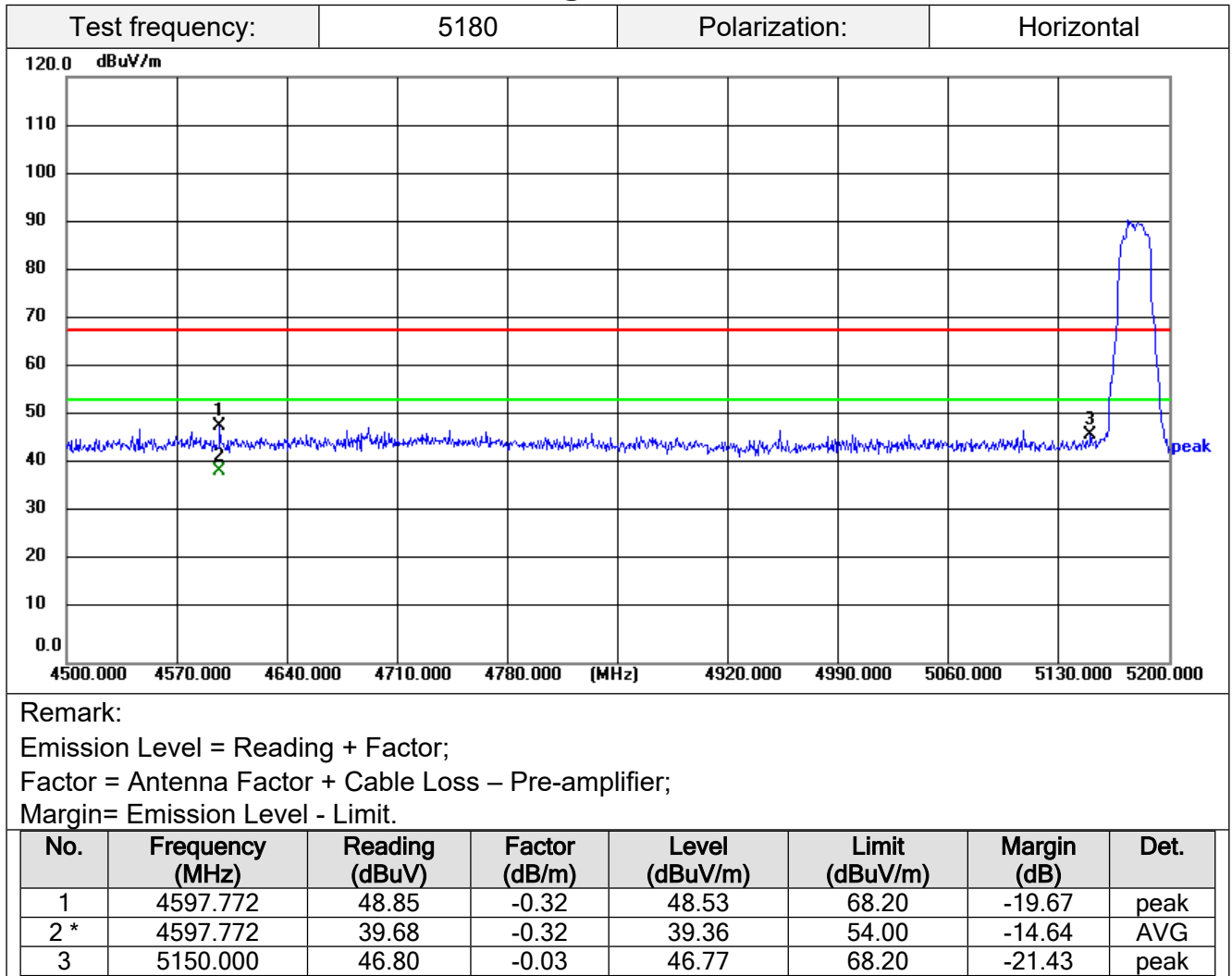
### U-NII 1 & U-NII 2A @ 802.11a mode antenna 1

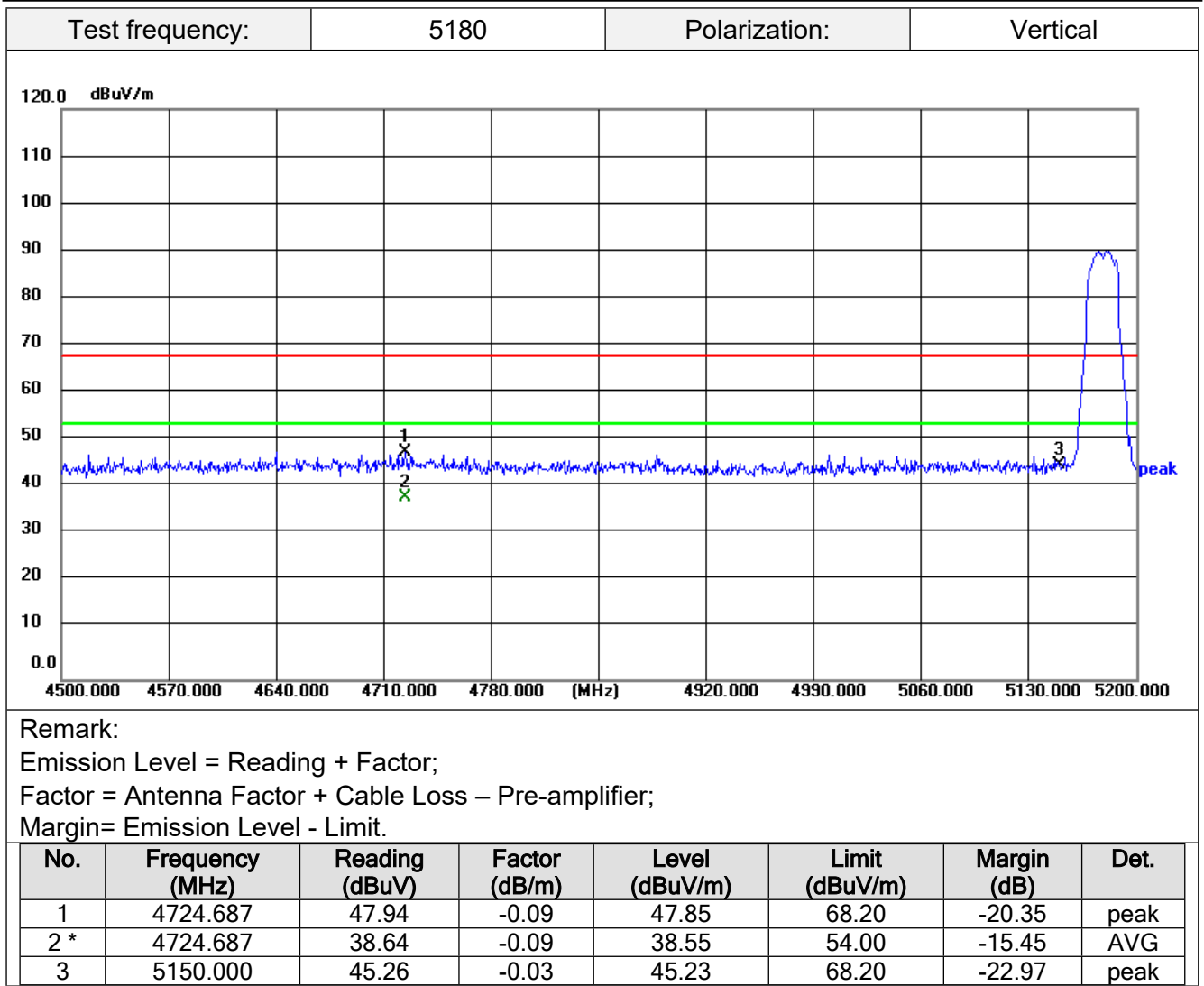


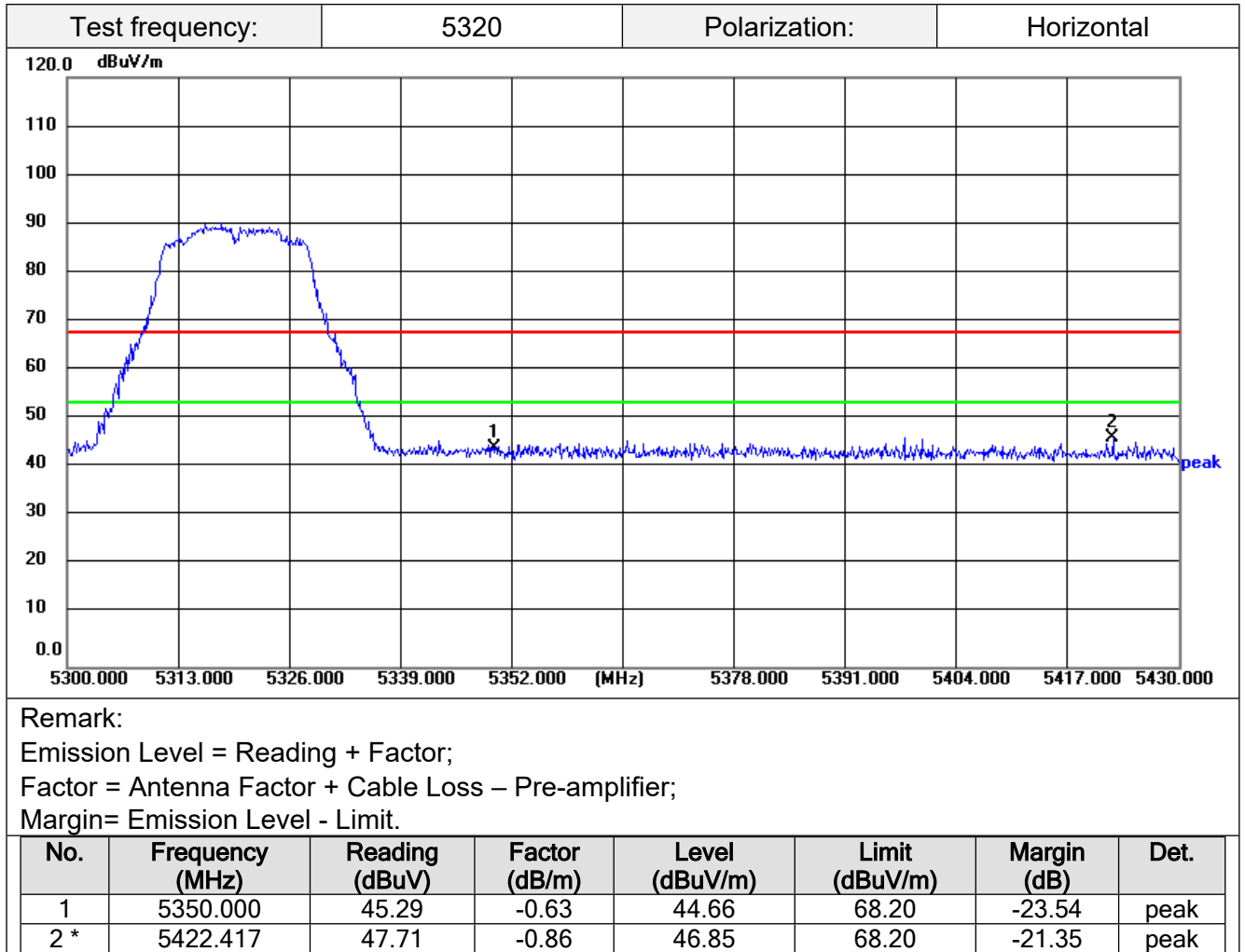


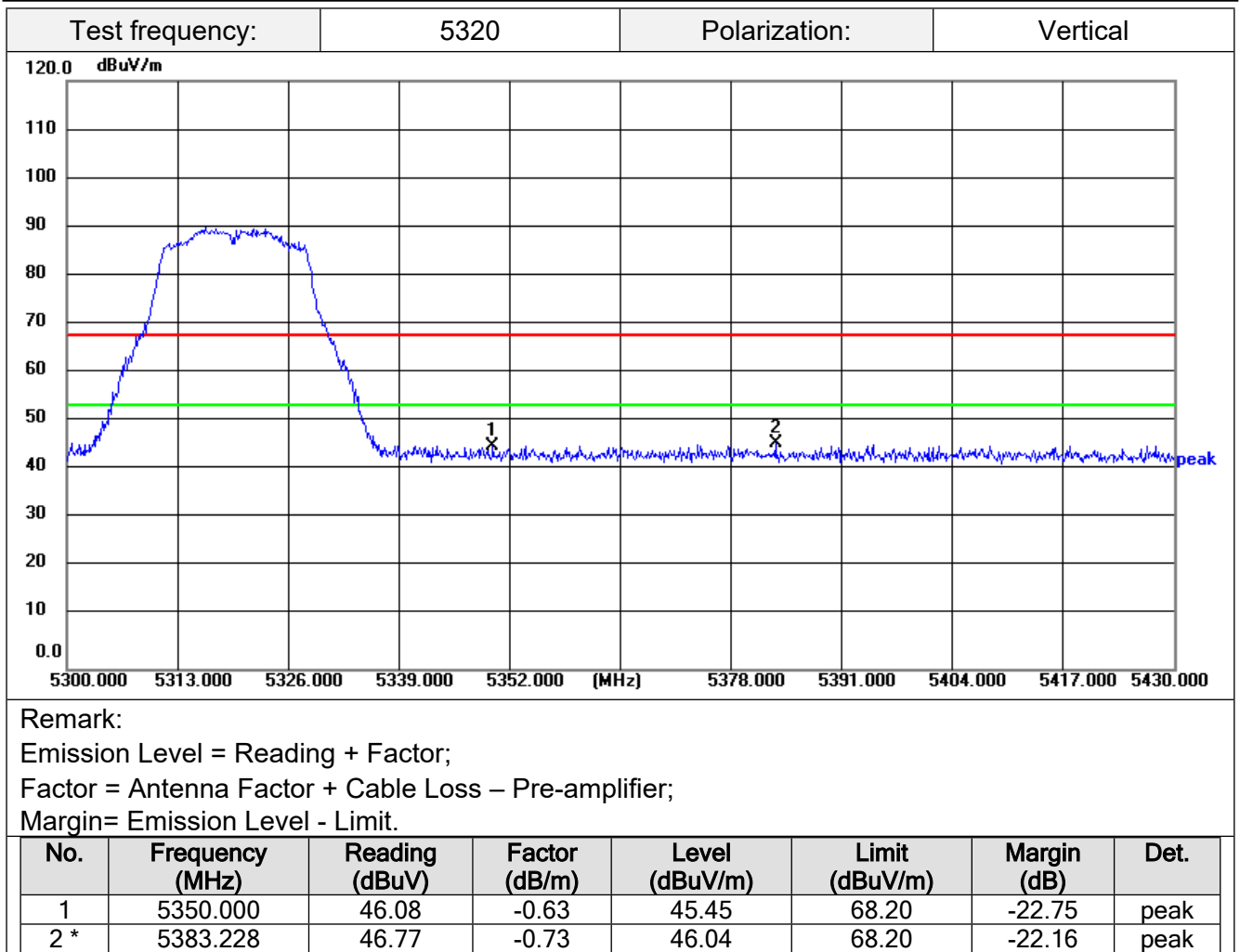




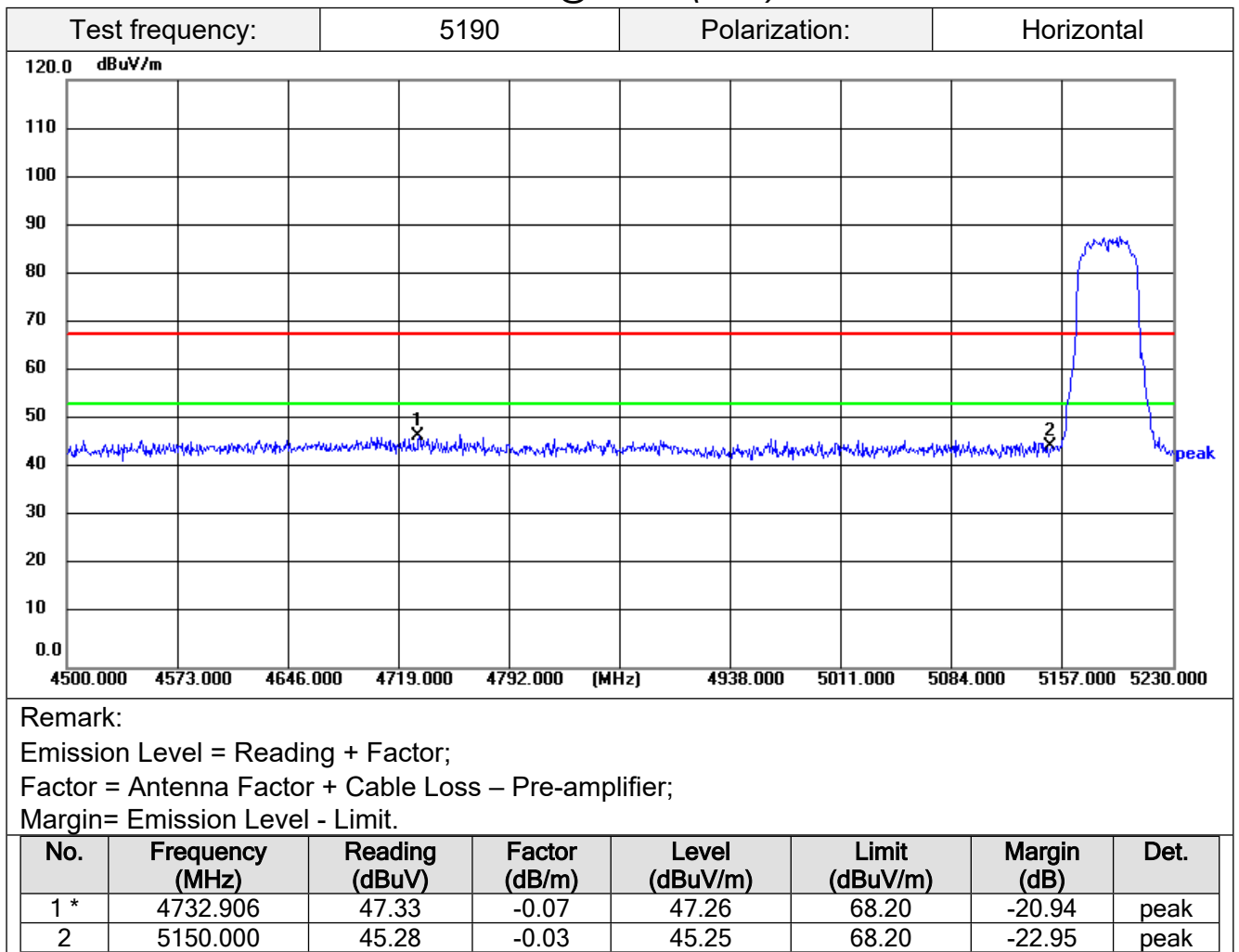
**U-NII 1 & U-NII 2A @ 802.11n(HT20) MIMO mode**


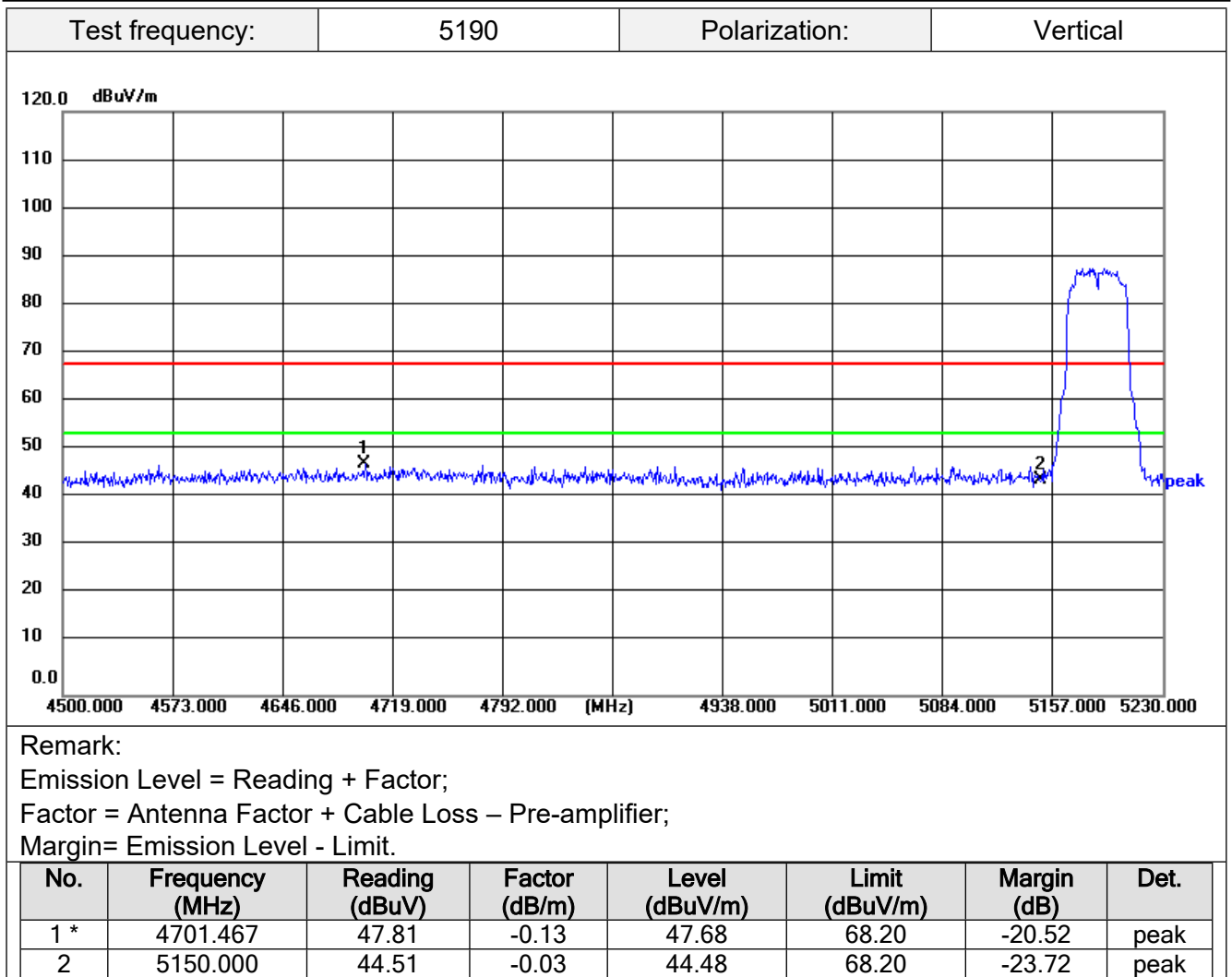


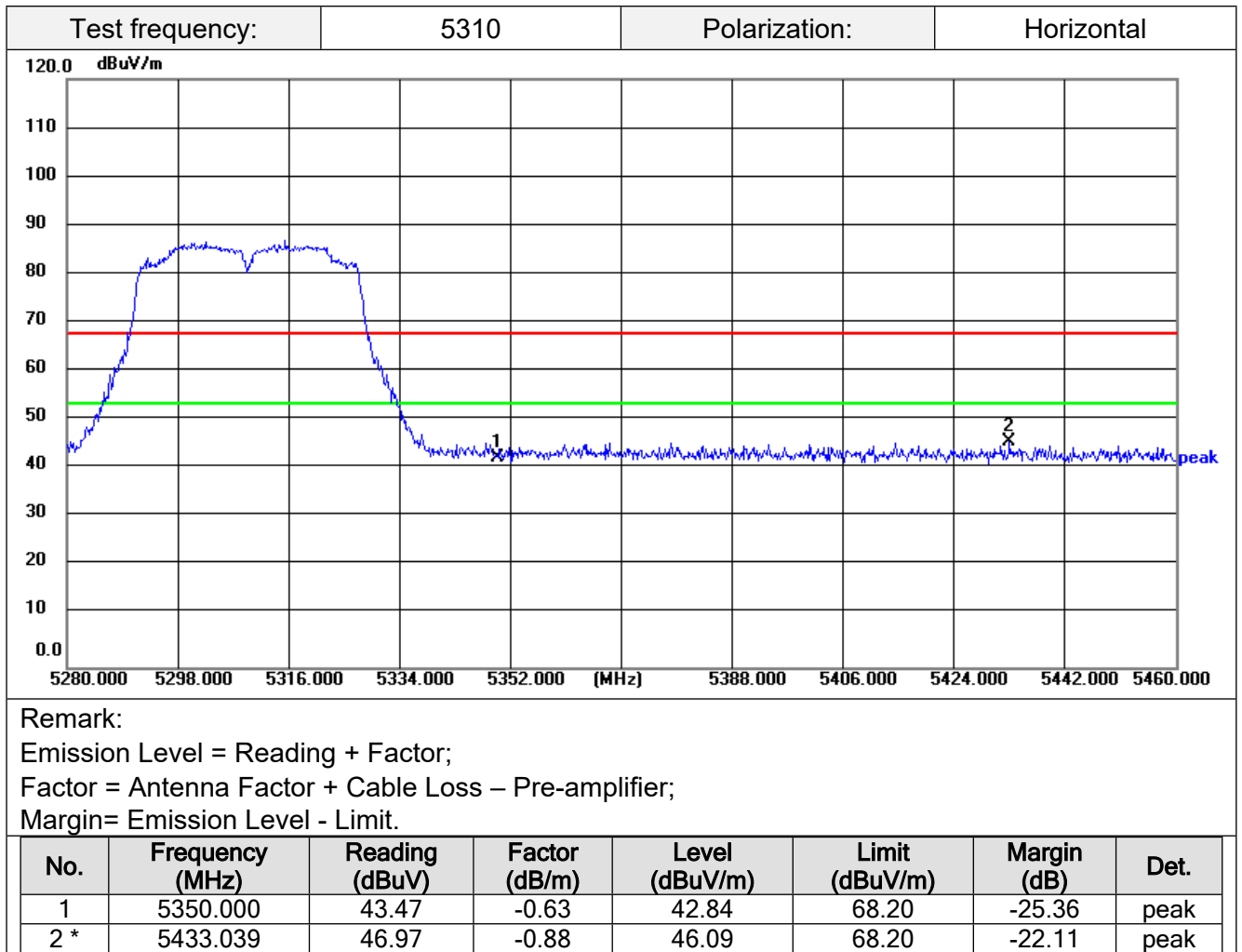


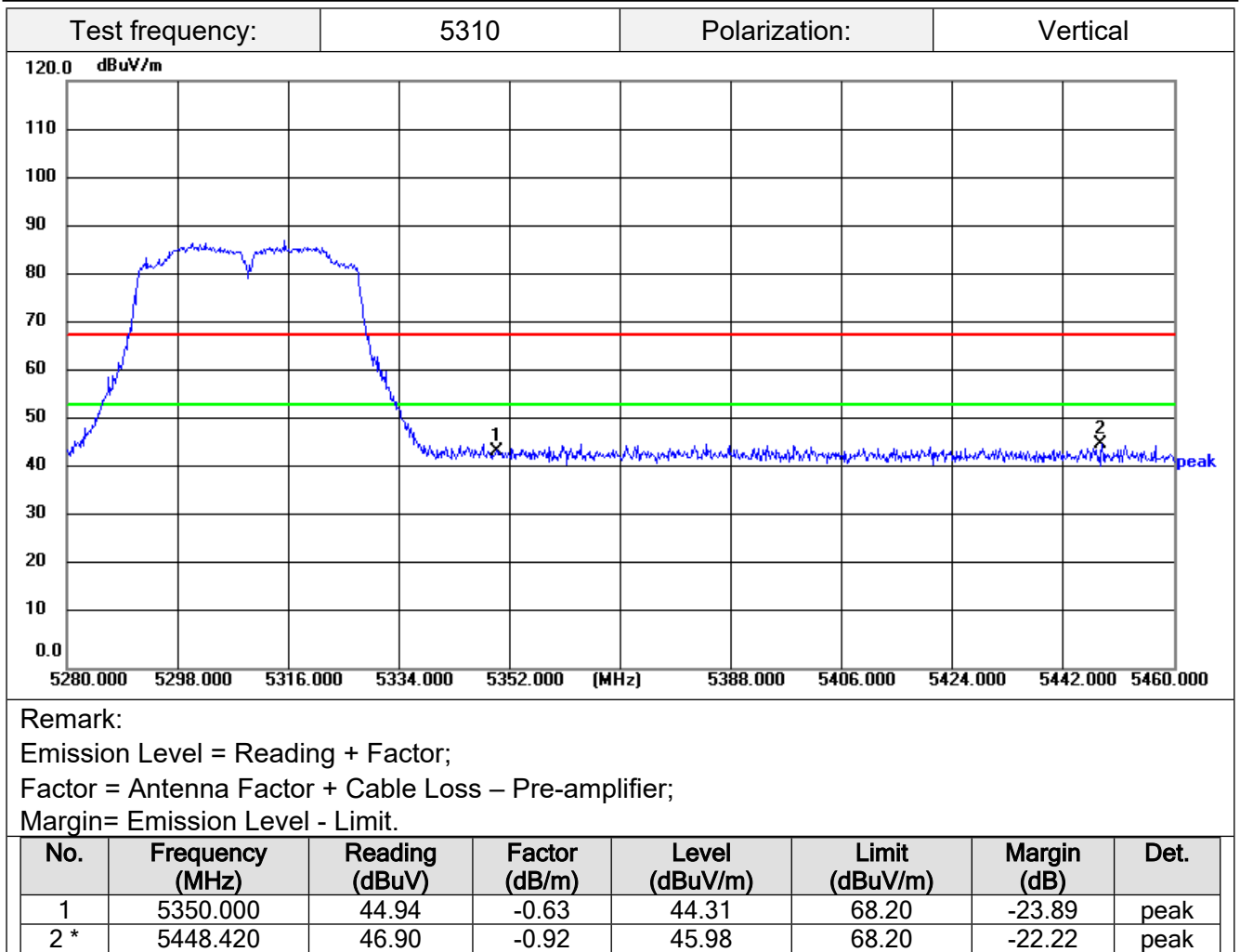


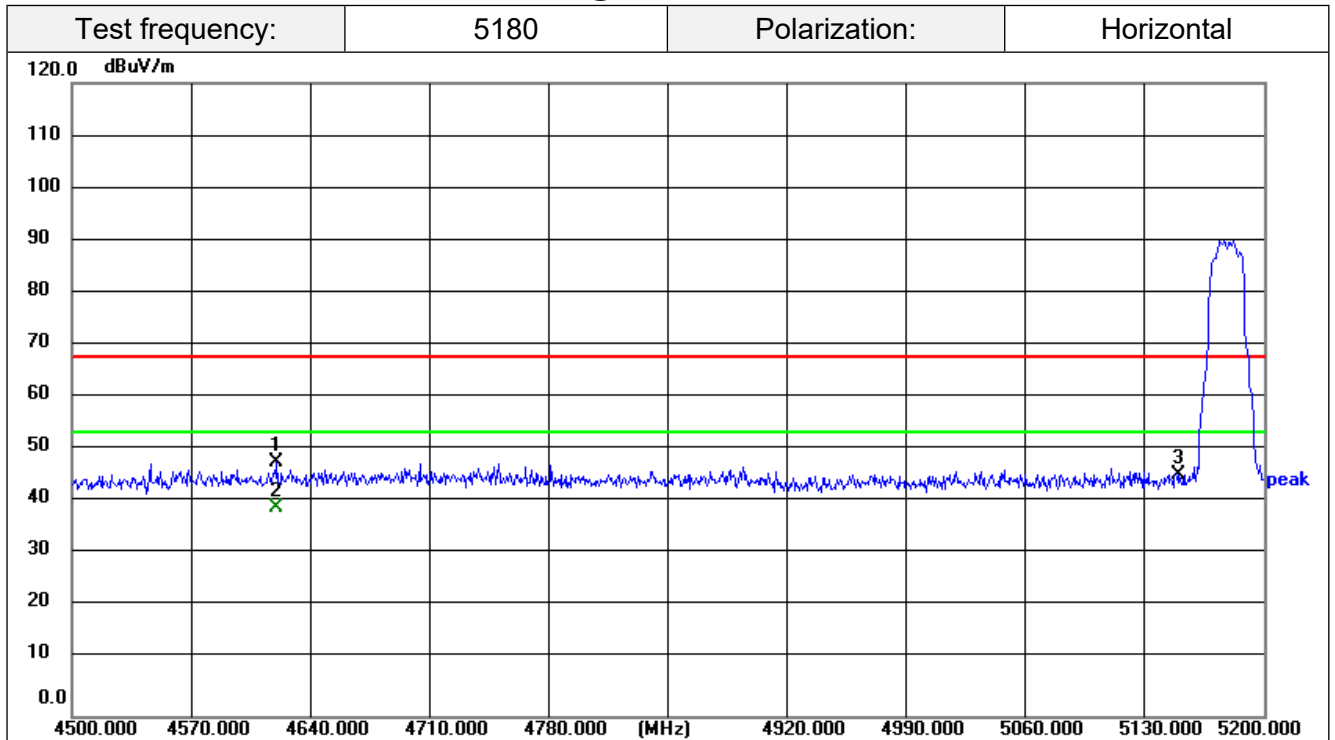
### U-NII 1 & U-NII 2A @ 802.11n(HT40) MIMO mode









**U-NII 1 & U-NII 2A @ 802.11ac(VHT20) MIMO mode**


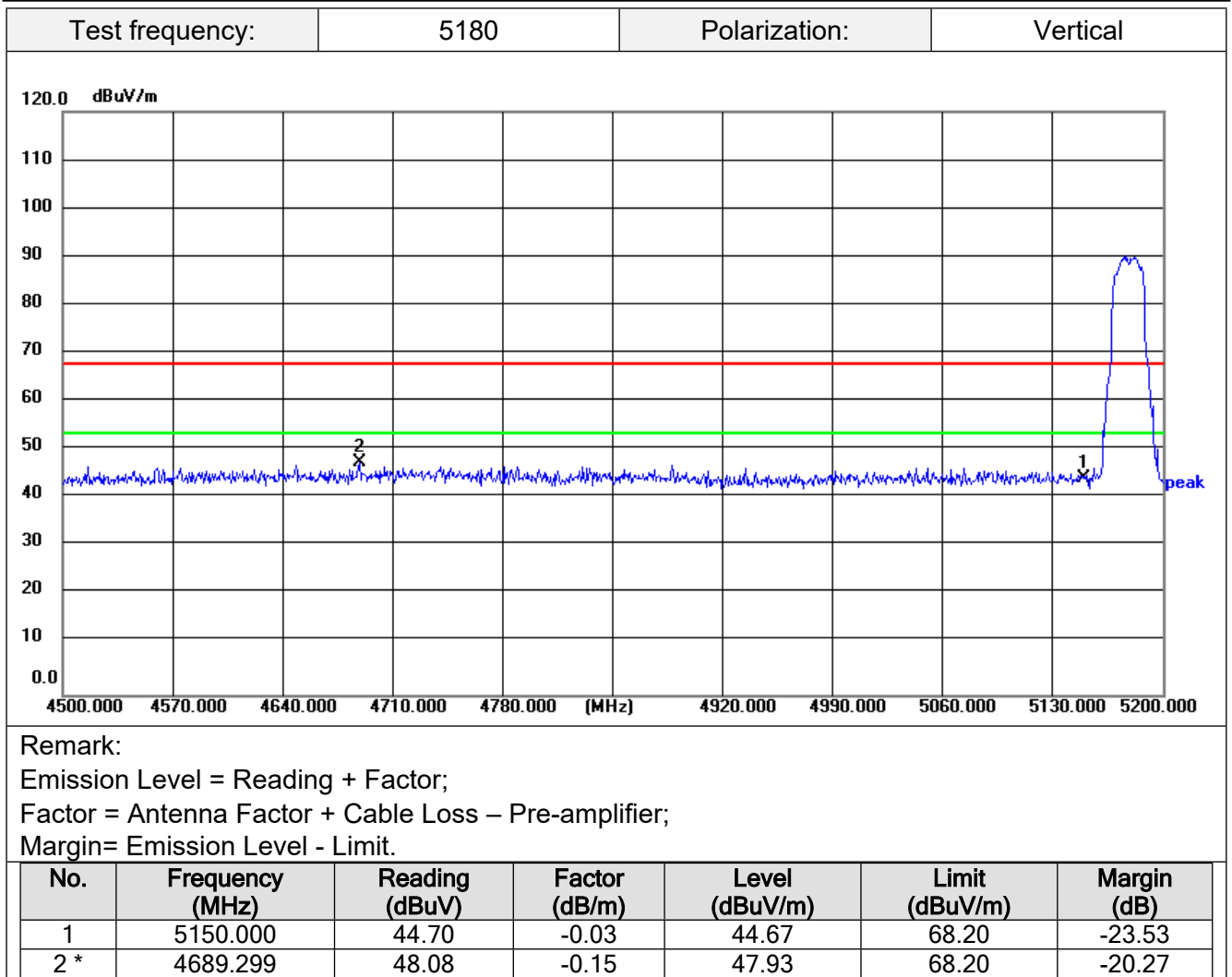
Remark:

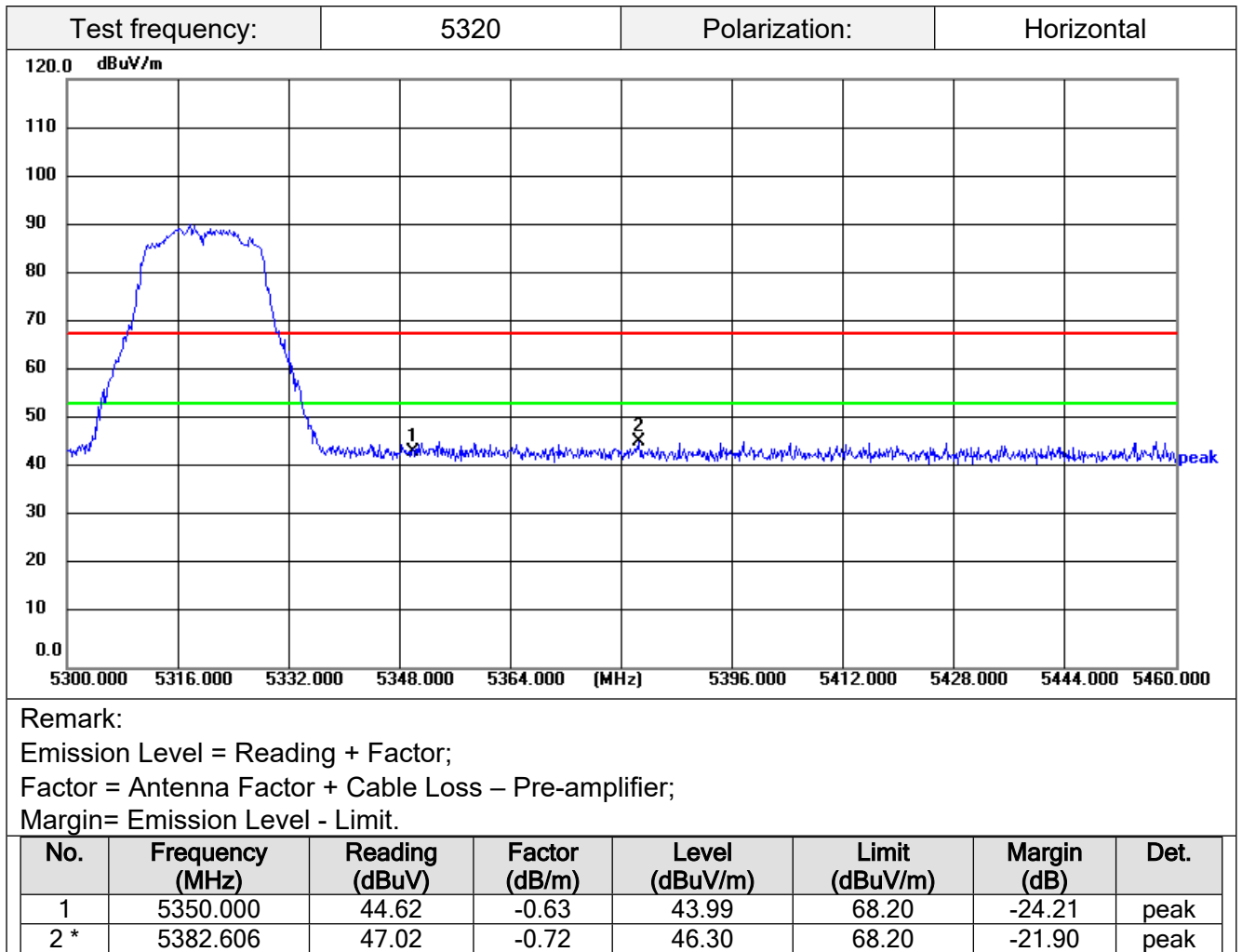
Emission Level = Reading + Factor;

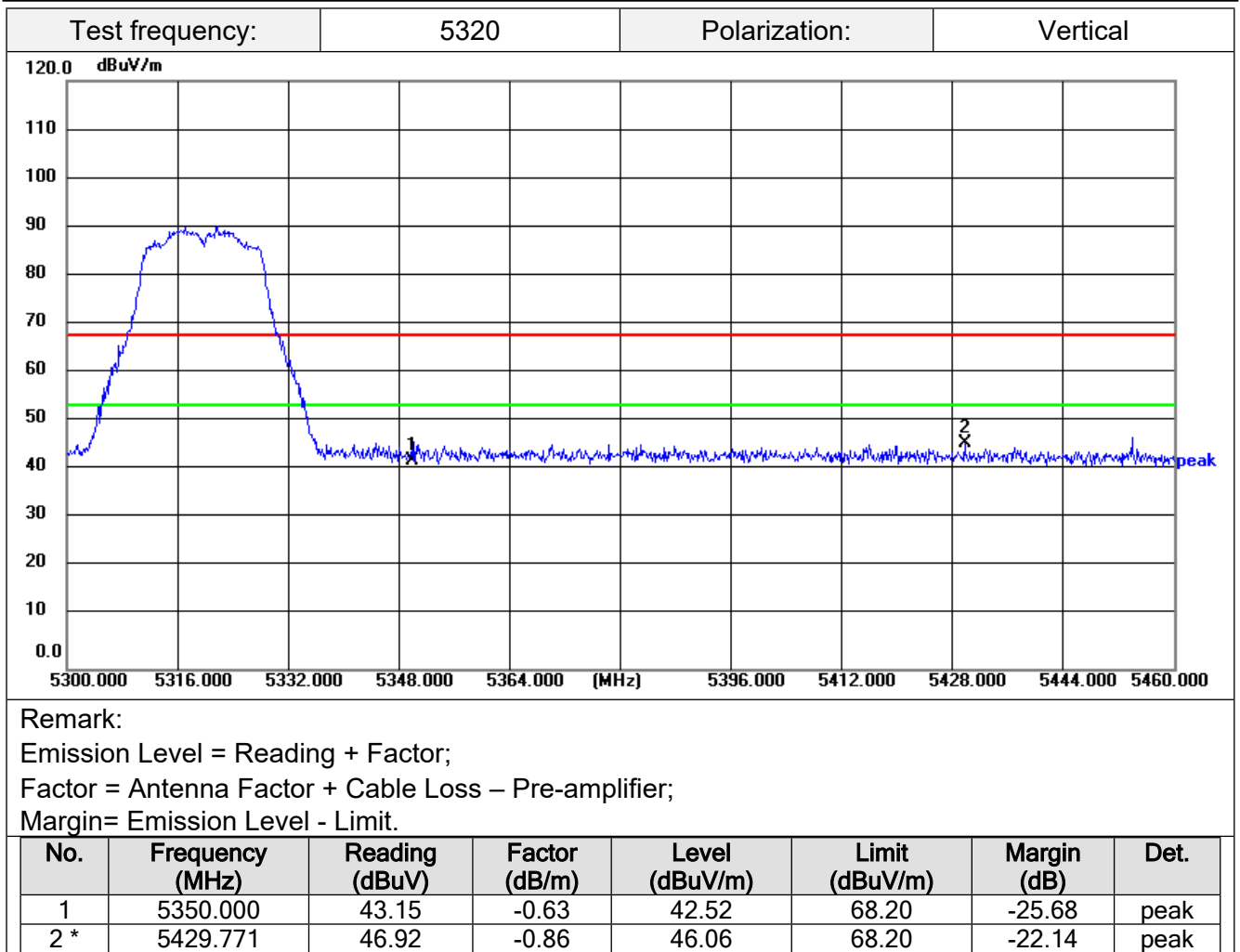
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

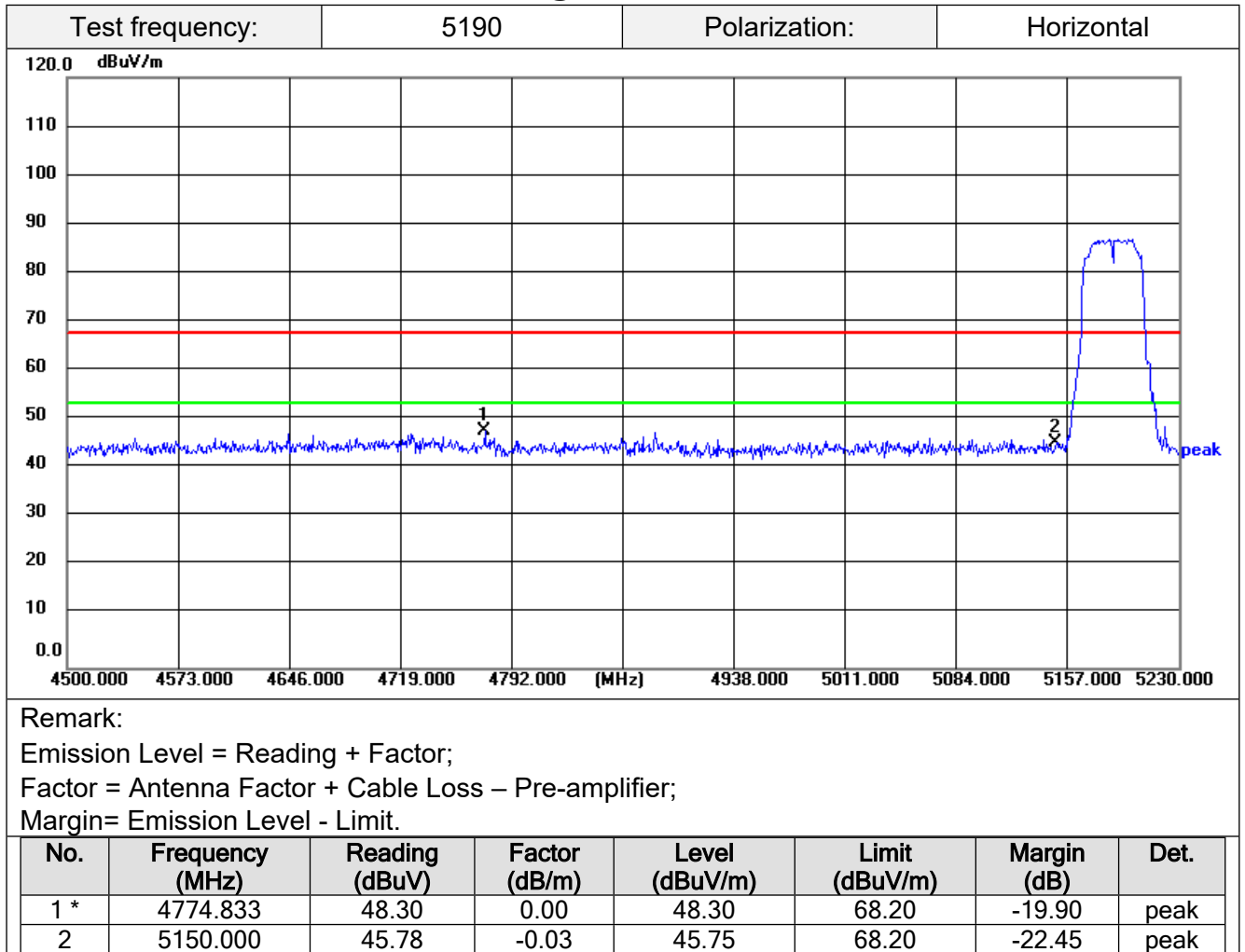
Margin= Emission Level - Limit.

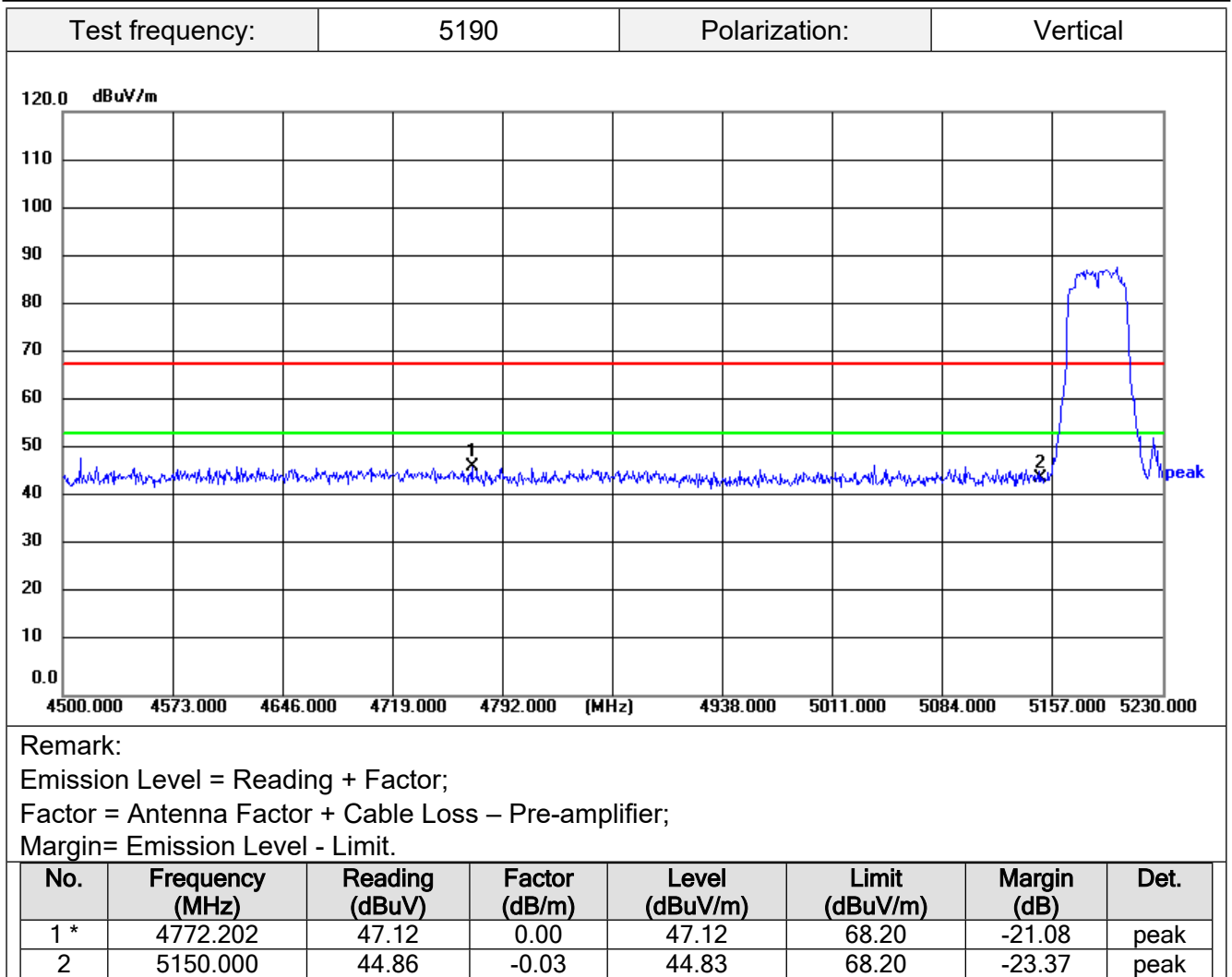
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1   | 4621.097        | 48.60          | -0.28         | 48.32          | 68.20          | -19.88      |
| 2 * | 4621.097        | 39.90          | -0.28         | 39.62          | 54.00          | -14.38      |
| 3   | 5150.000        | 46.05          | -0.03         | 46.02          | 68.20          | -22.18      |

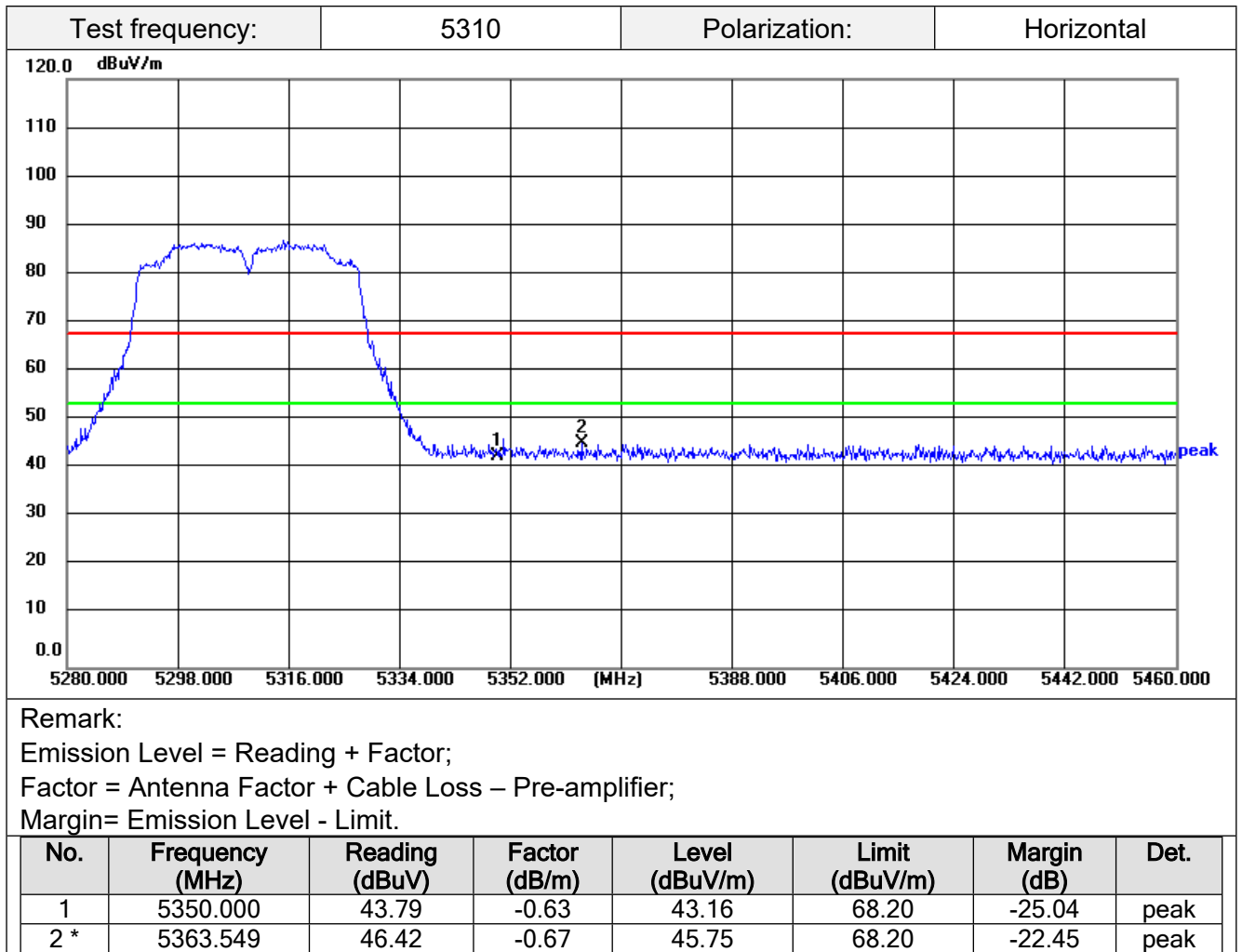


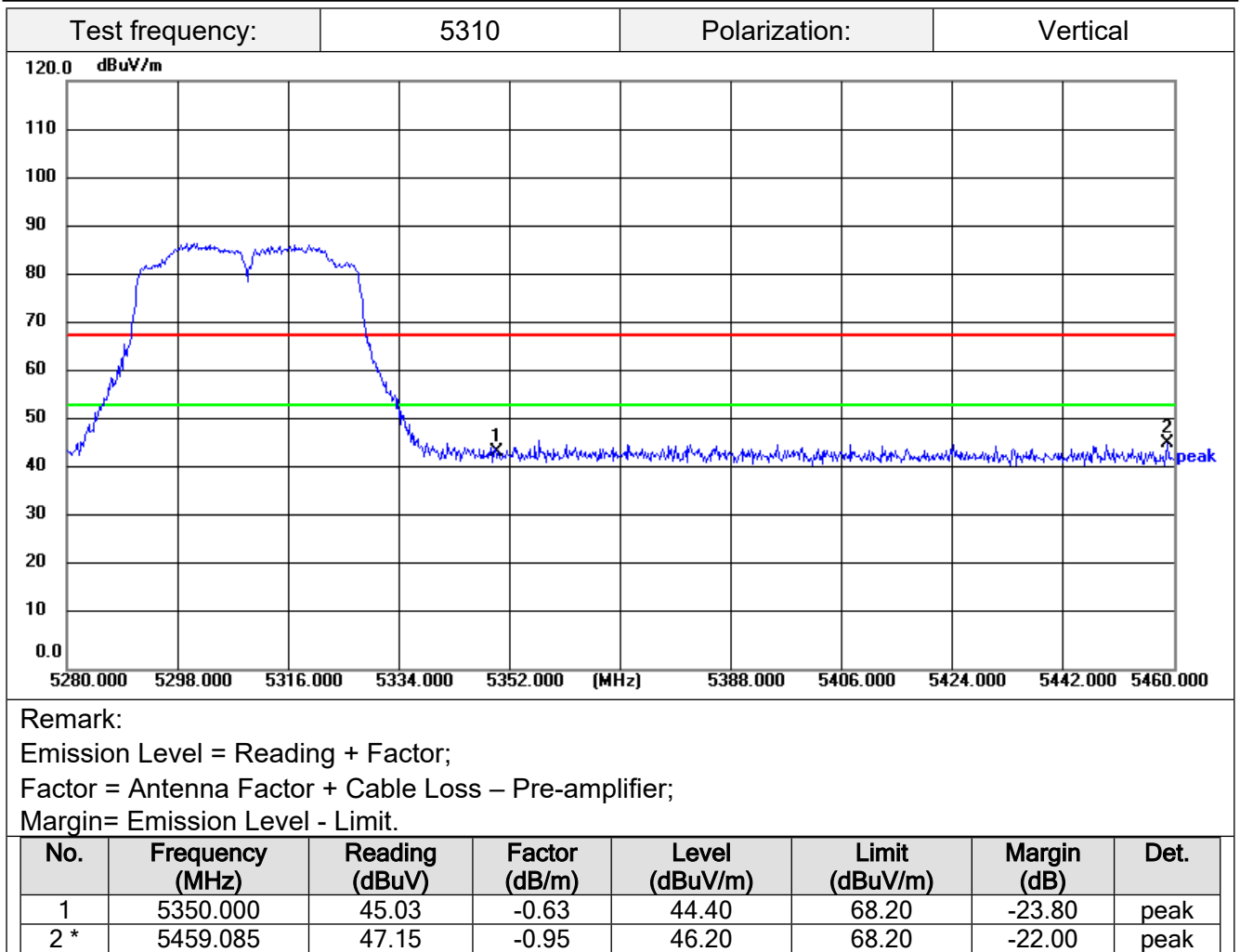




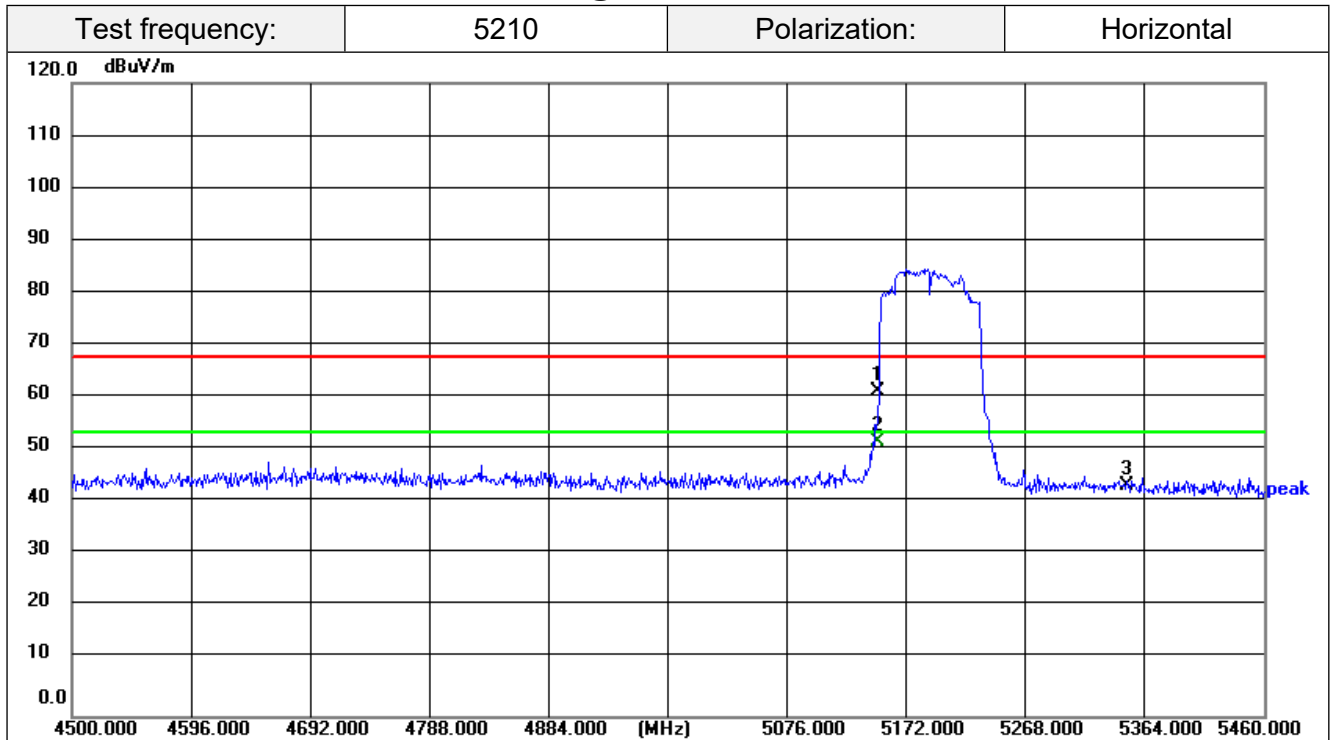
**U-NII 1 & U-NII 2A @ 802.11ac(VHT40) MIMO mode**








### U-NII 1 & U-NII 2A @ 802.11ac(VHT80) MIMO mode



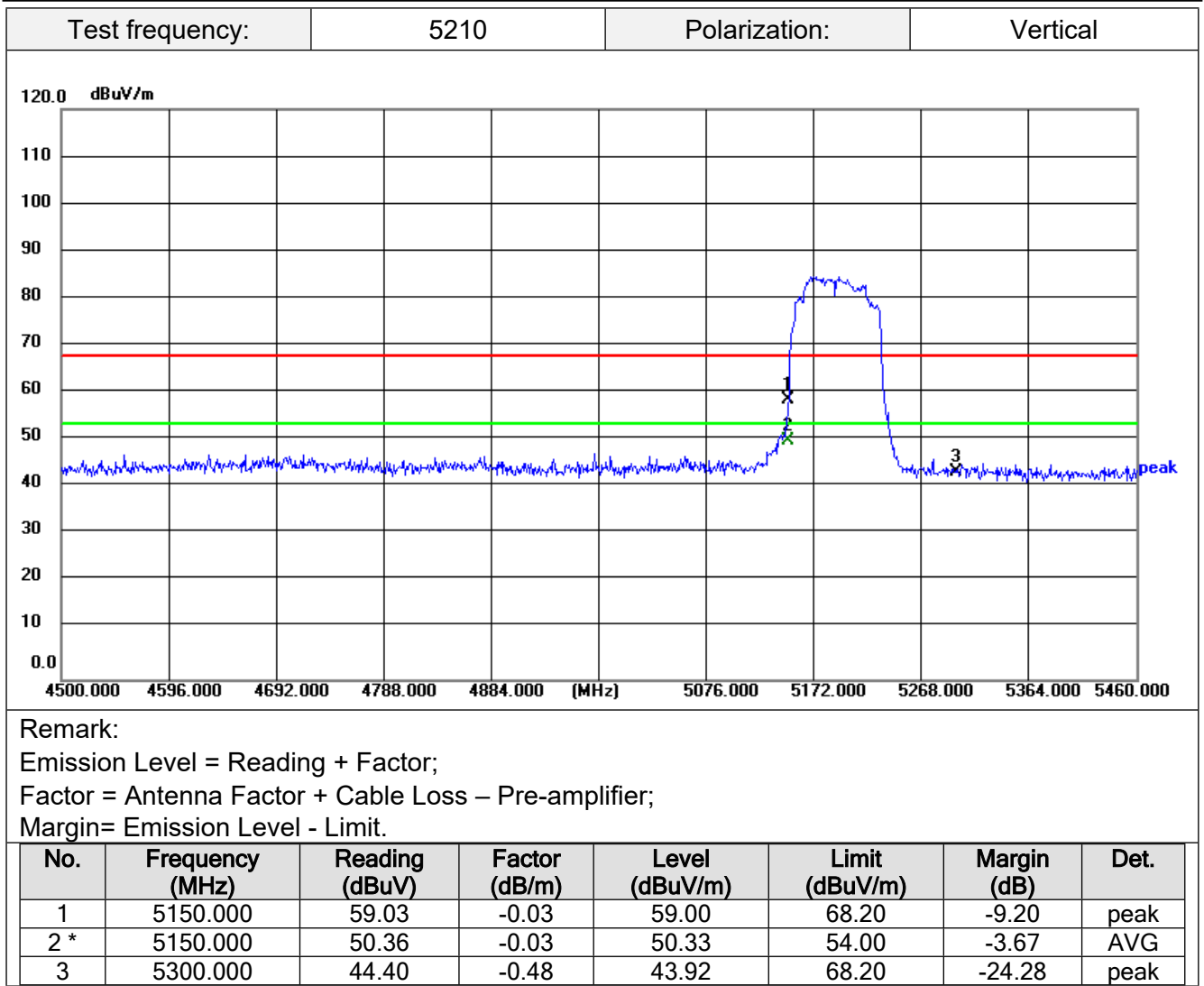
Remark:

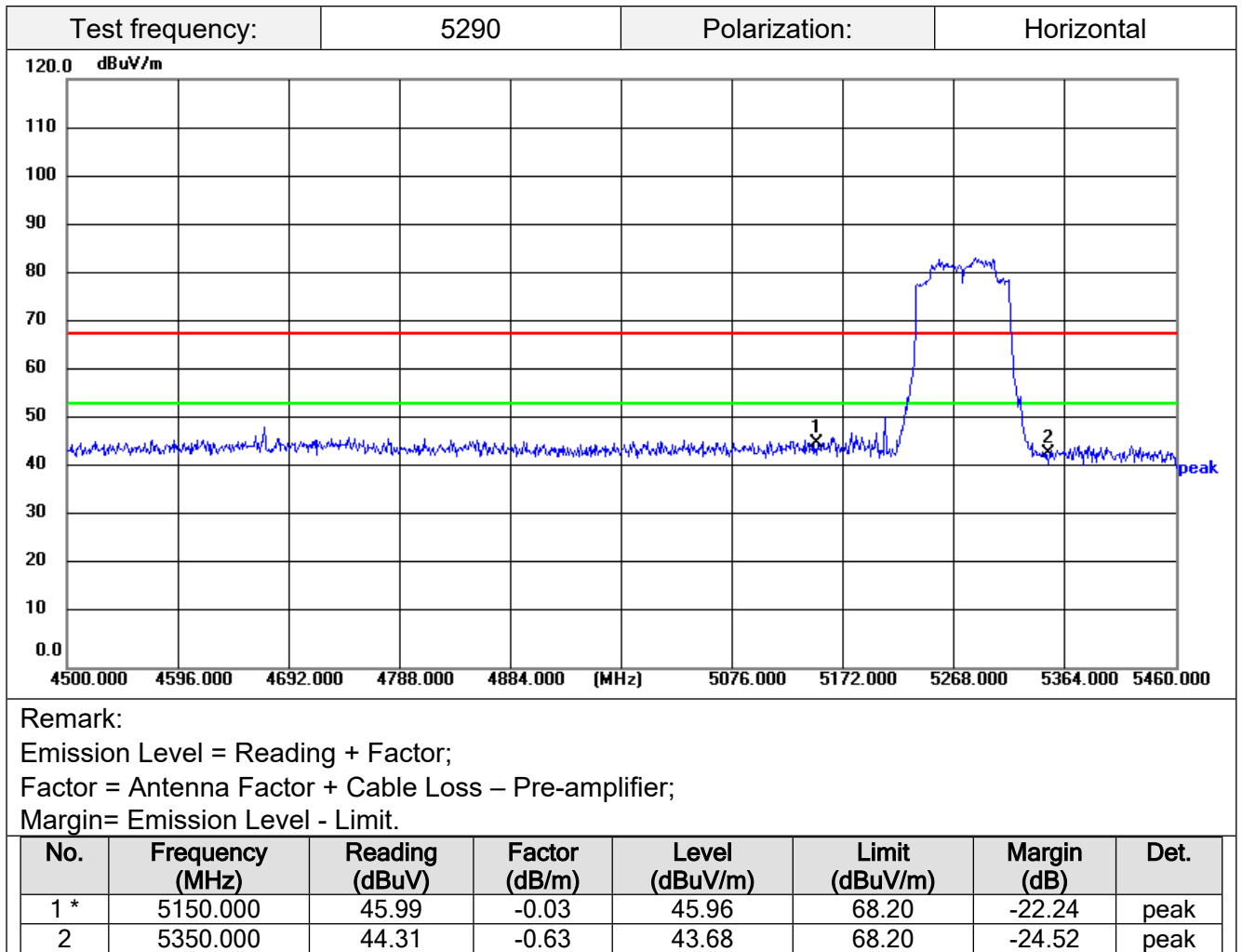
Emission Level = Reading + Factor;

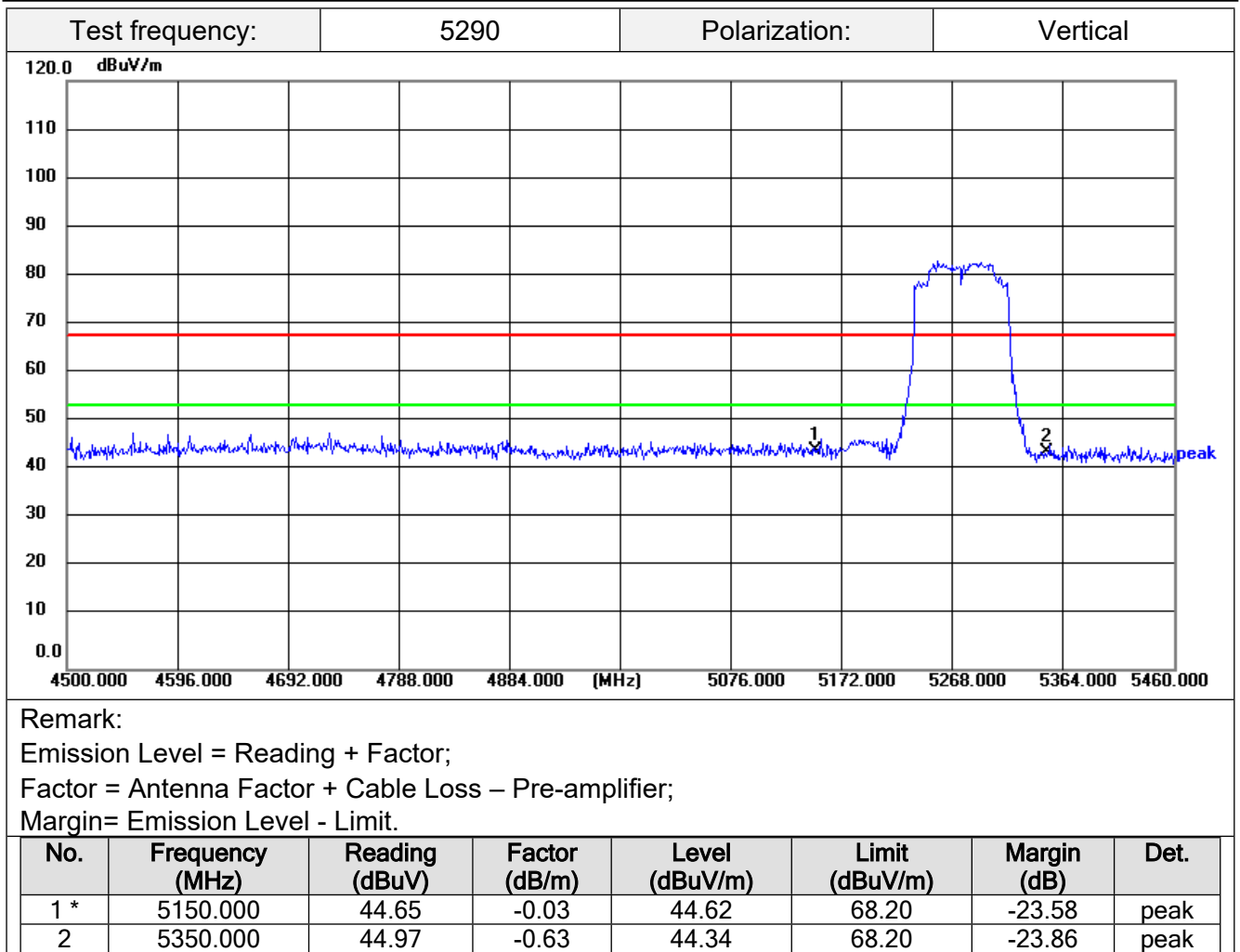
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

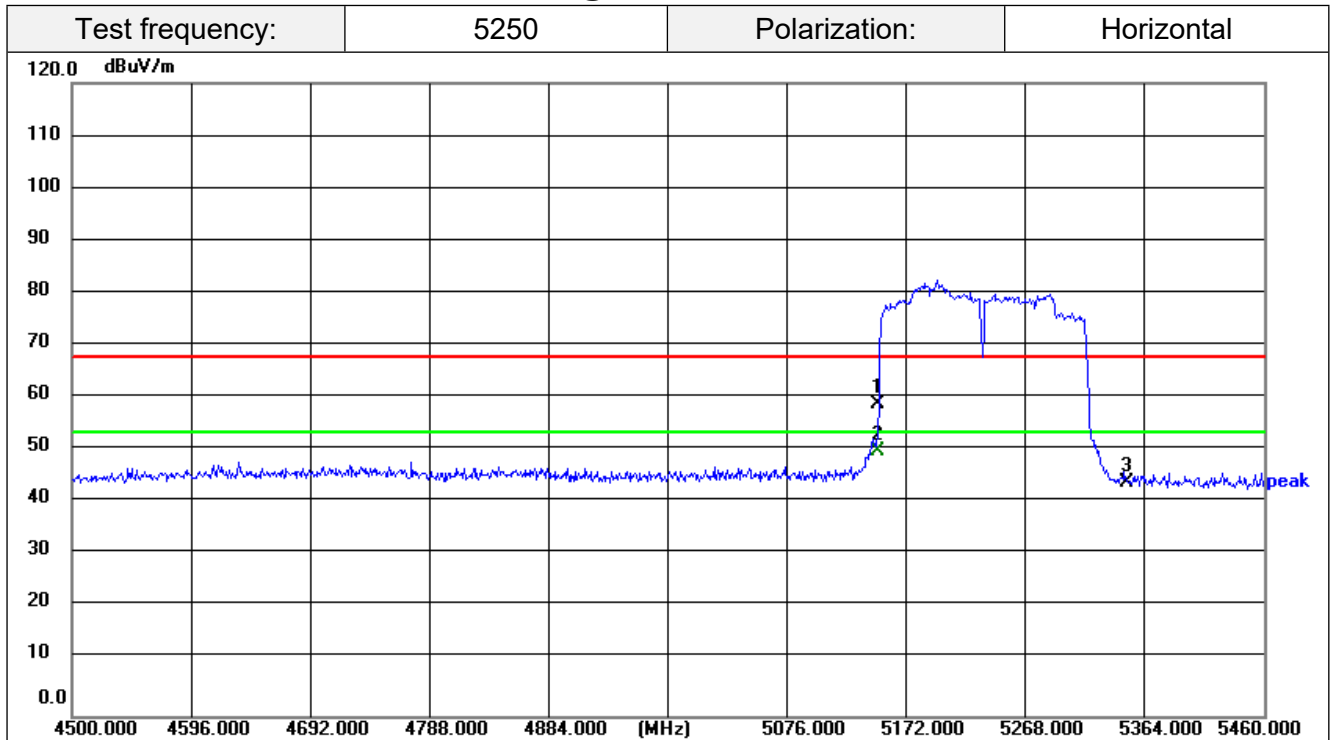
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5150.000        | 61.74          | -0.03         | 61.71          | 68.20          | -6.49       | peak |
| 2 * | 5150.000        | 52.11          | -0.03         | 52.08          | 54.00          | -1.92       | AVG  |
| 3   | 5350.000        | 44.34          | -0.63         | 43.71          | 68.20          | -24.49      | peak |







### U-NII 1 & U-NII 2A @ 802.11ac(VHT160) MIMO mode



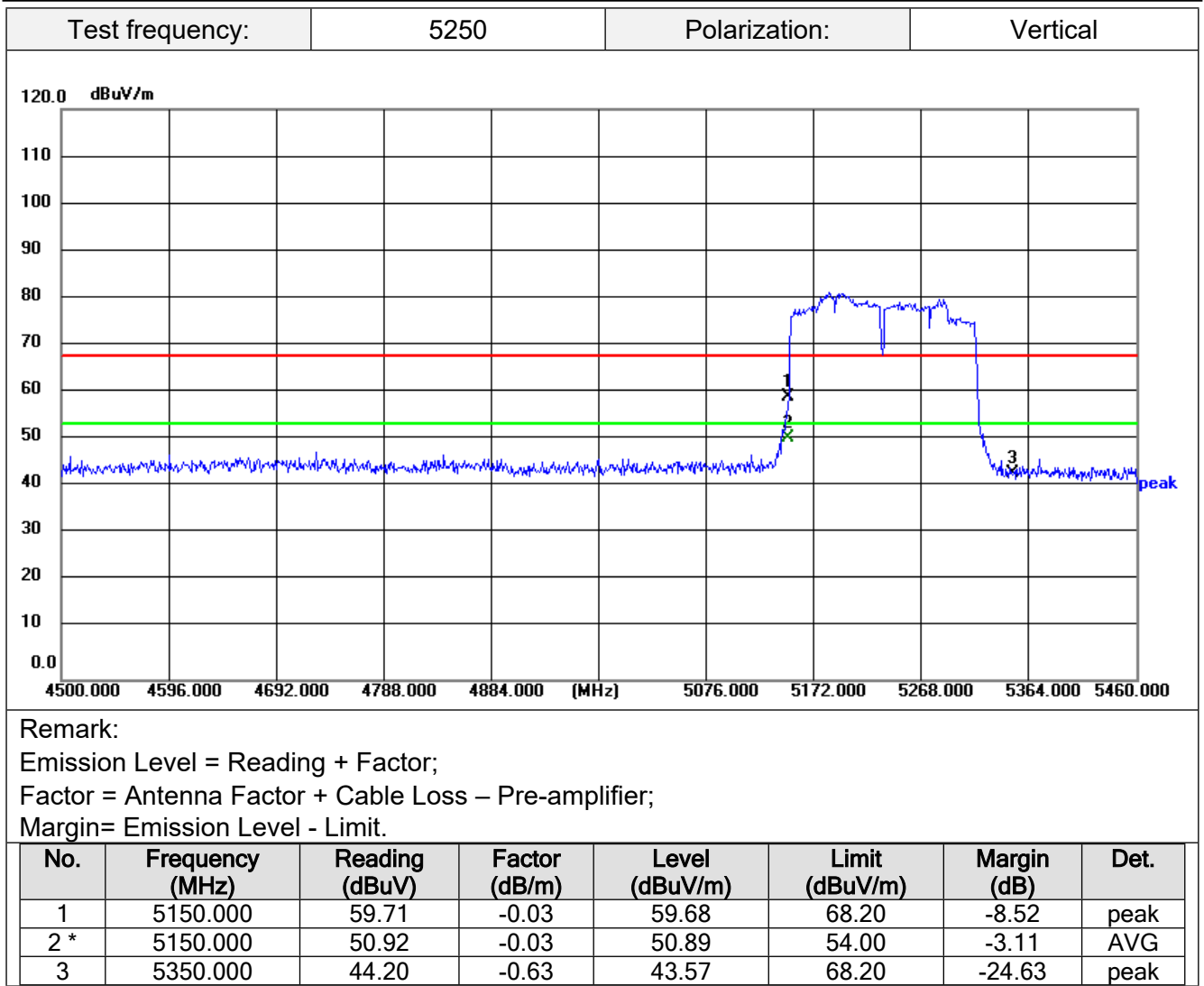
Remark:

Emission Level = Reading + Factor;

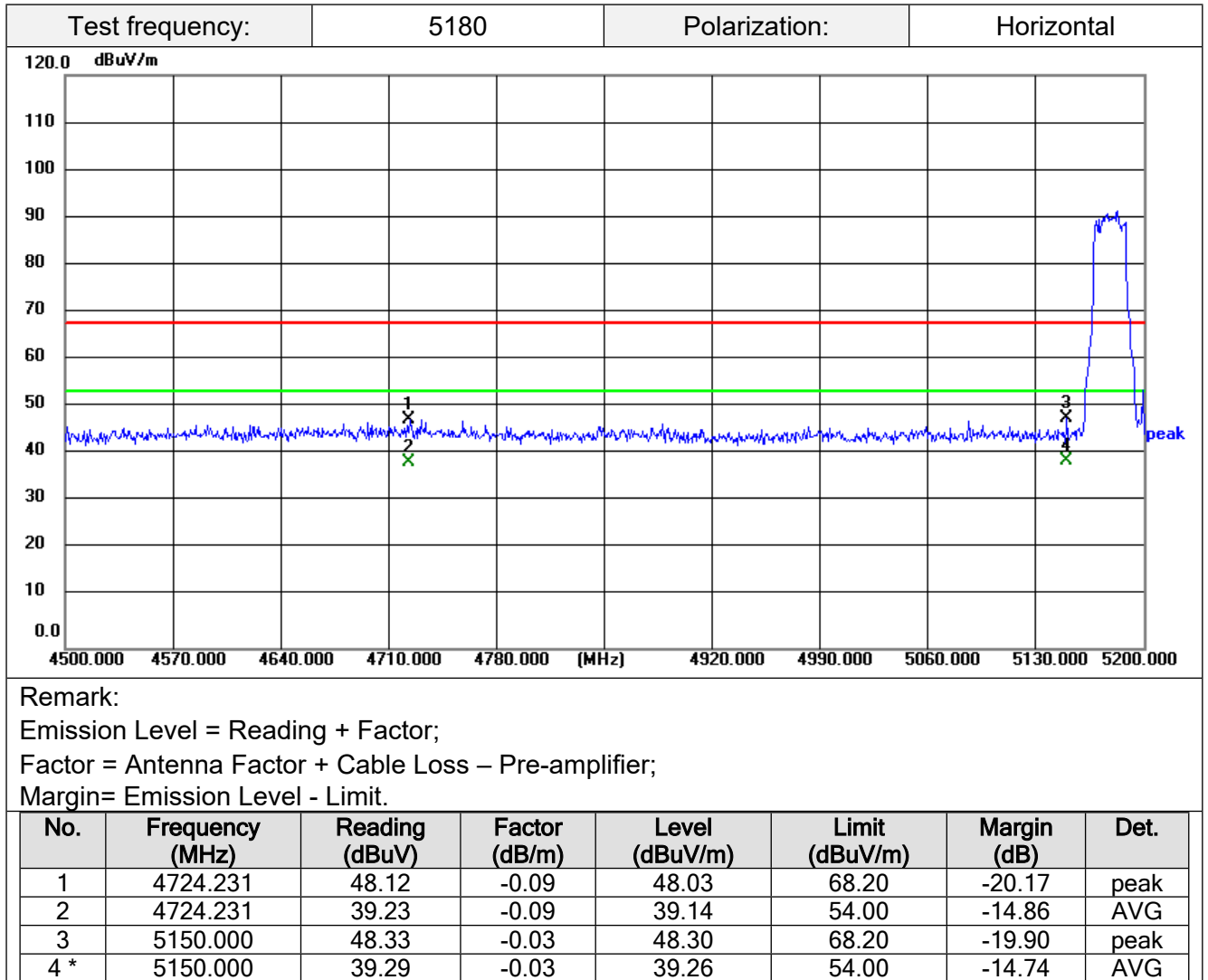
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

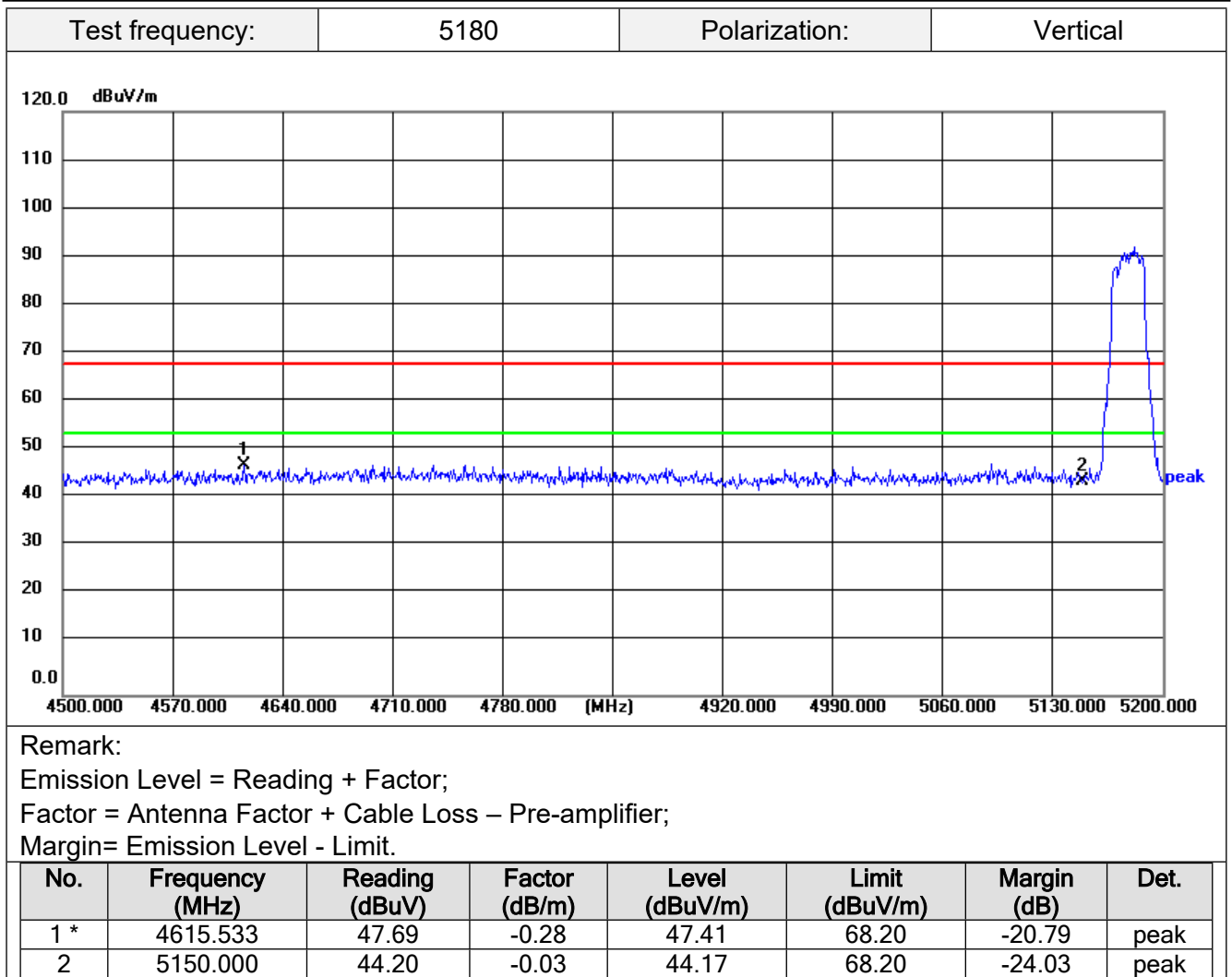
Margin= Emission Level - Limit.

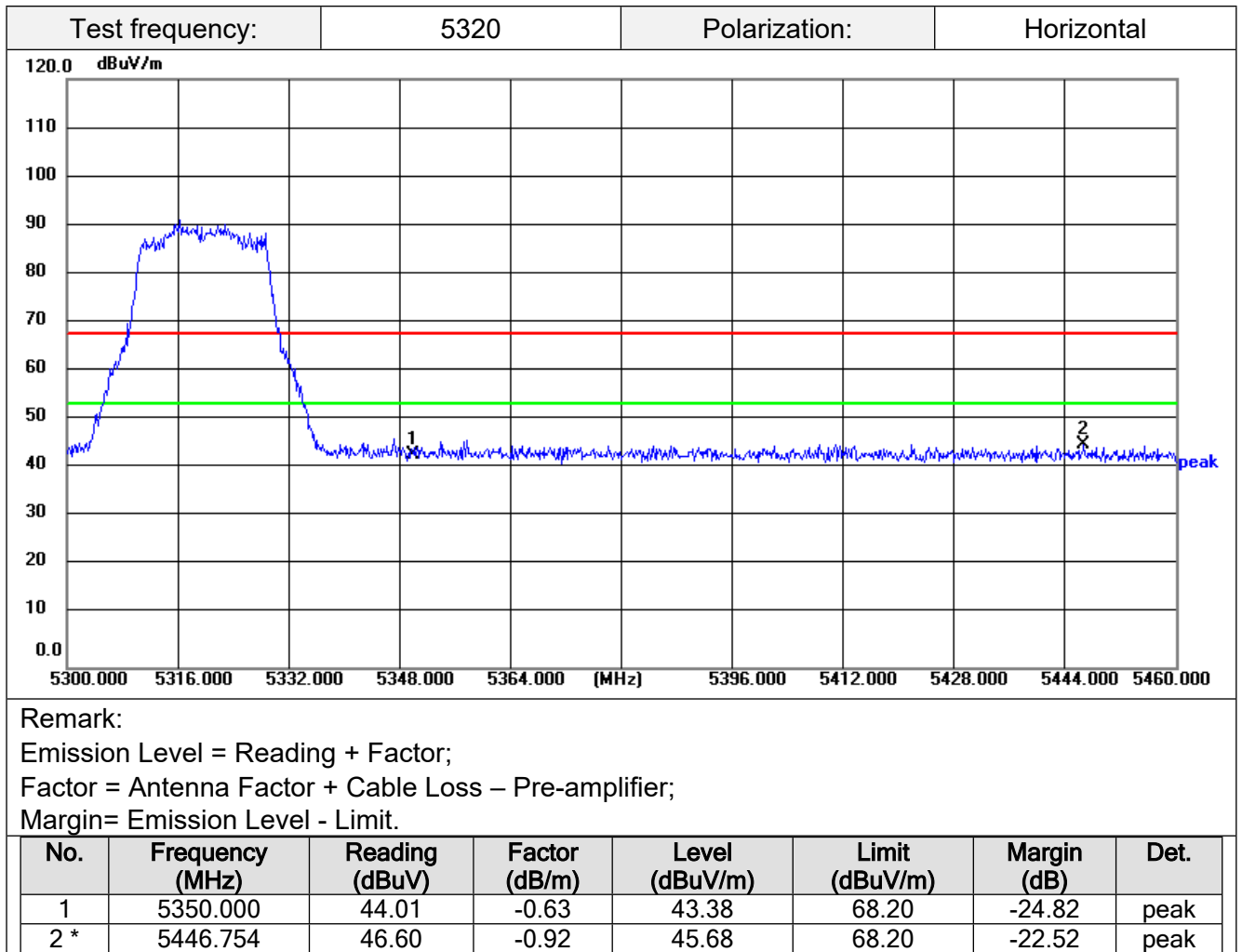
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5150.000        | 59.32          | -0.03         | 59.29          | 68.20          | -8.91       | peak |
| 2 * | 5150.000        | 50.44          | -0.03         | 50.41          | 54.00          | -3.59       | AVG  |
| 3   | 5350.000        | 44.89          | -0.63         | 44.26          | 68.20          | -23.94      | peak |

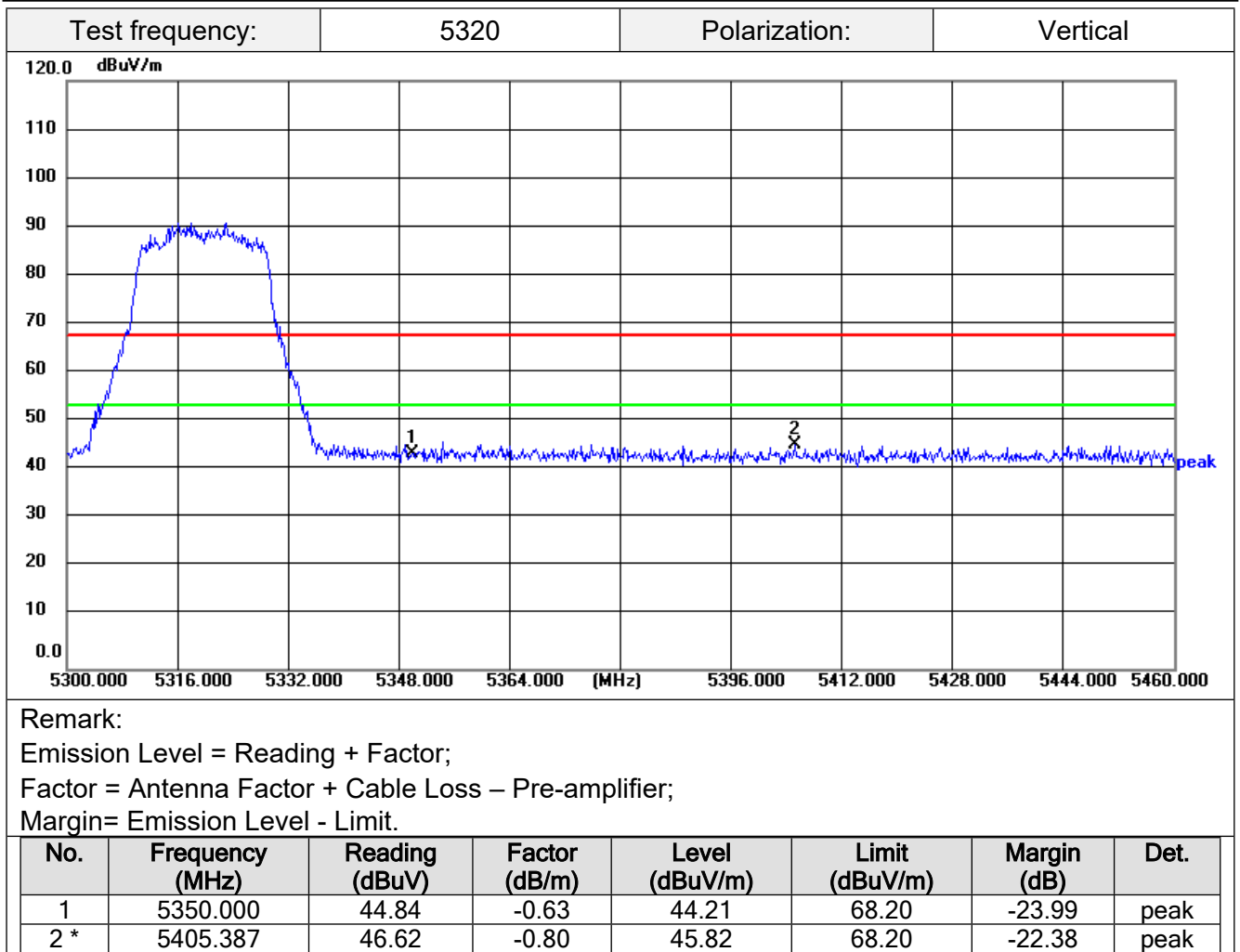


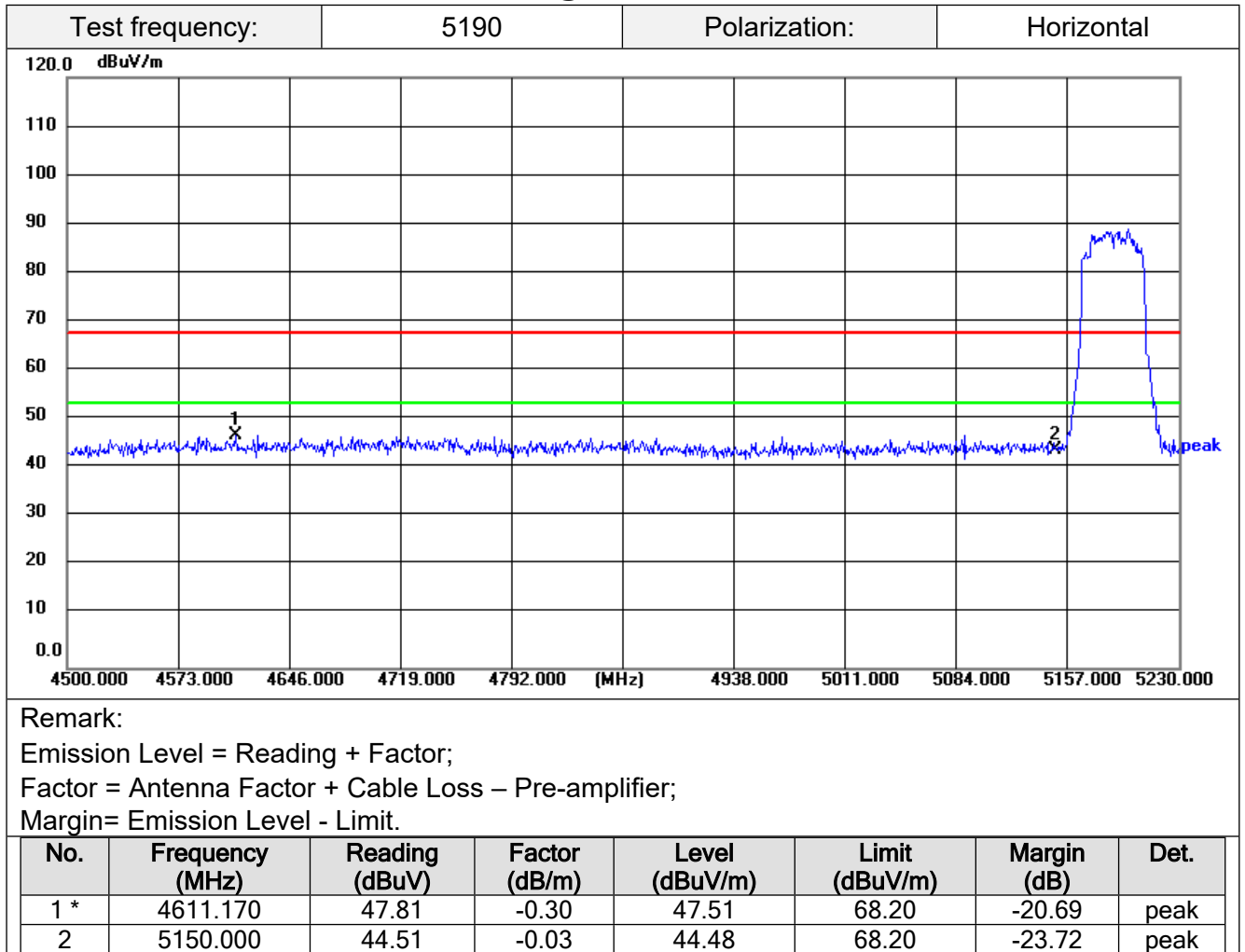
### U-NII 1 & U-NII 2A @ 802.11ax(HE20) MIMO mode

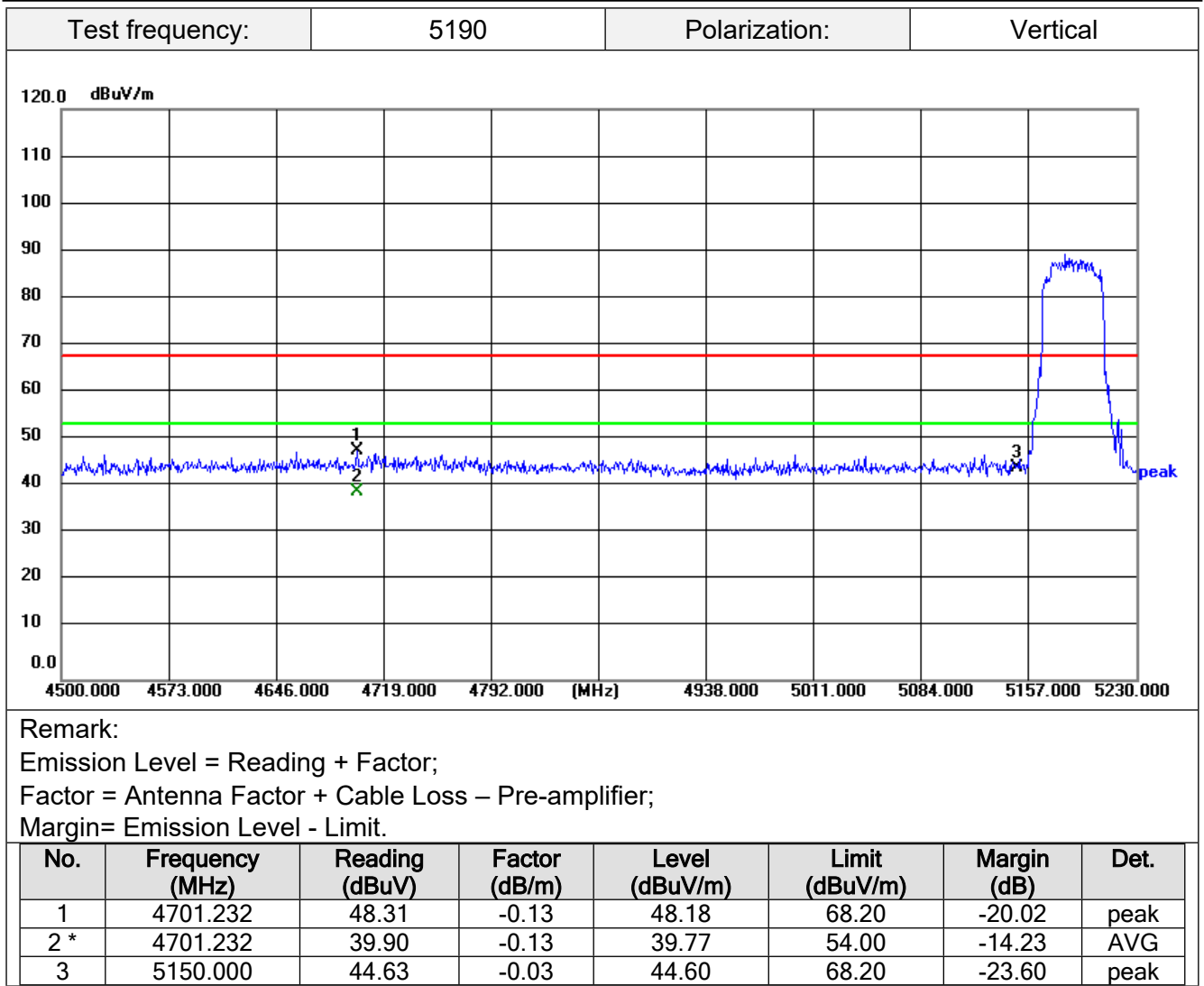


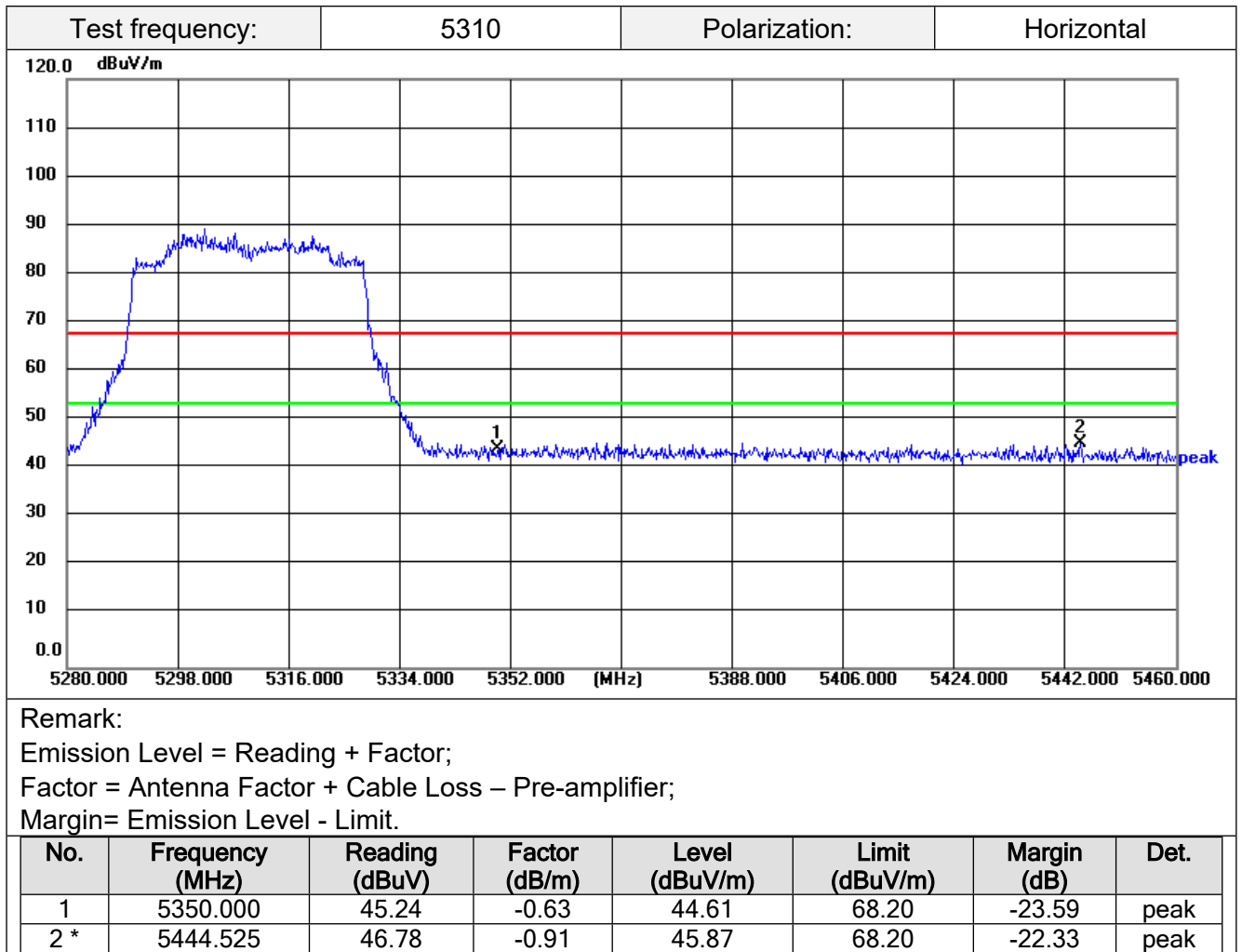


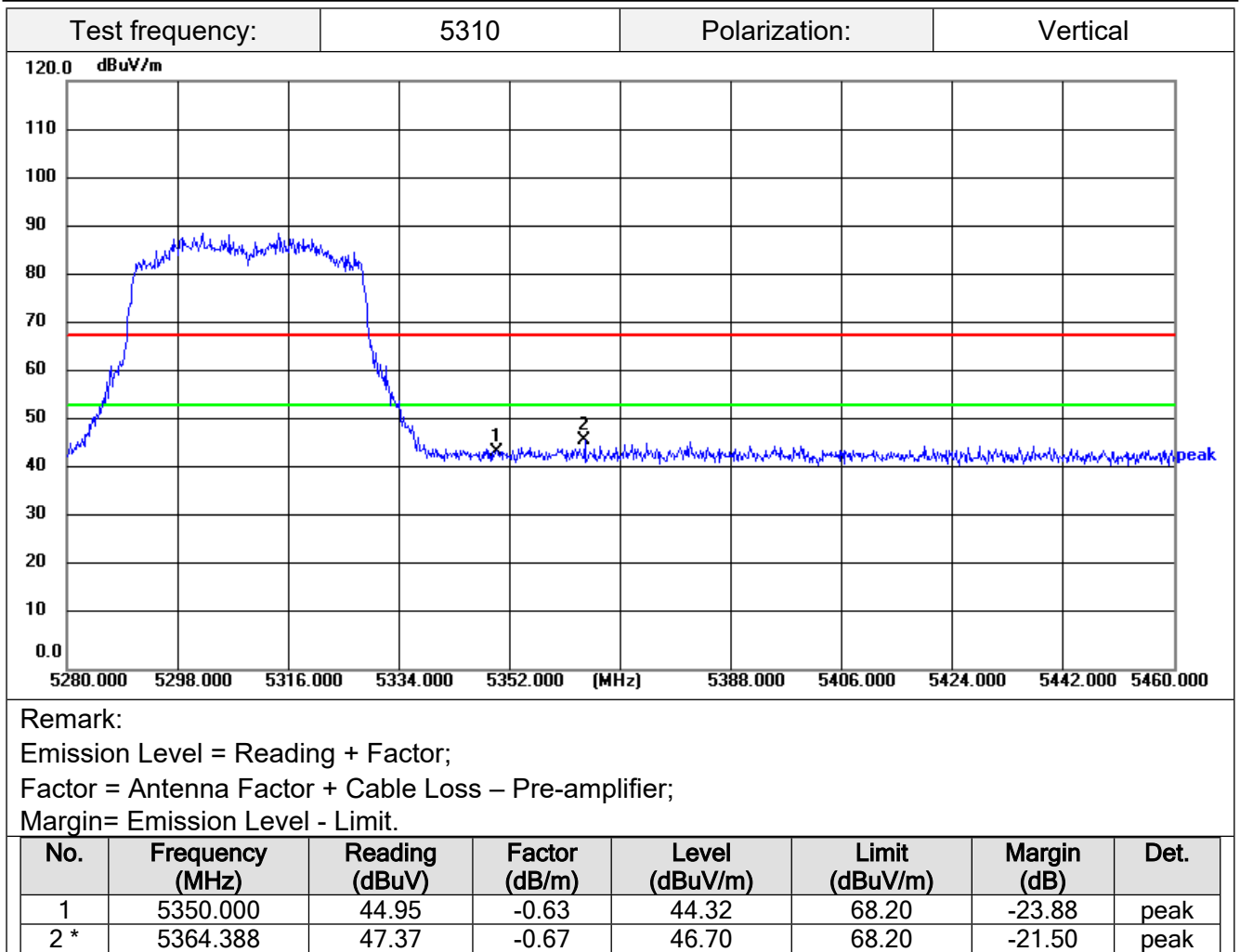


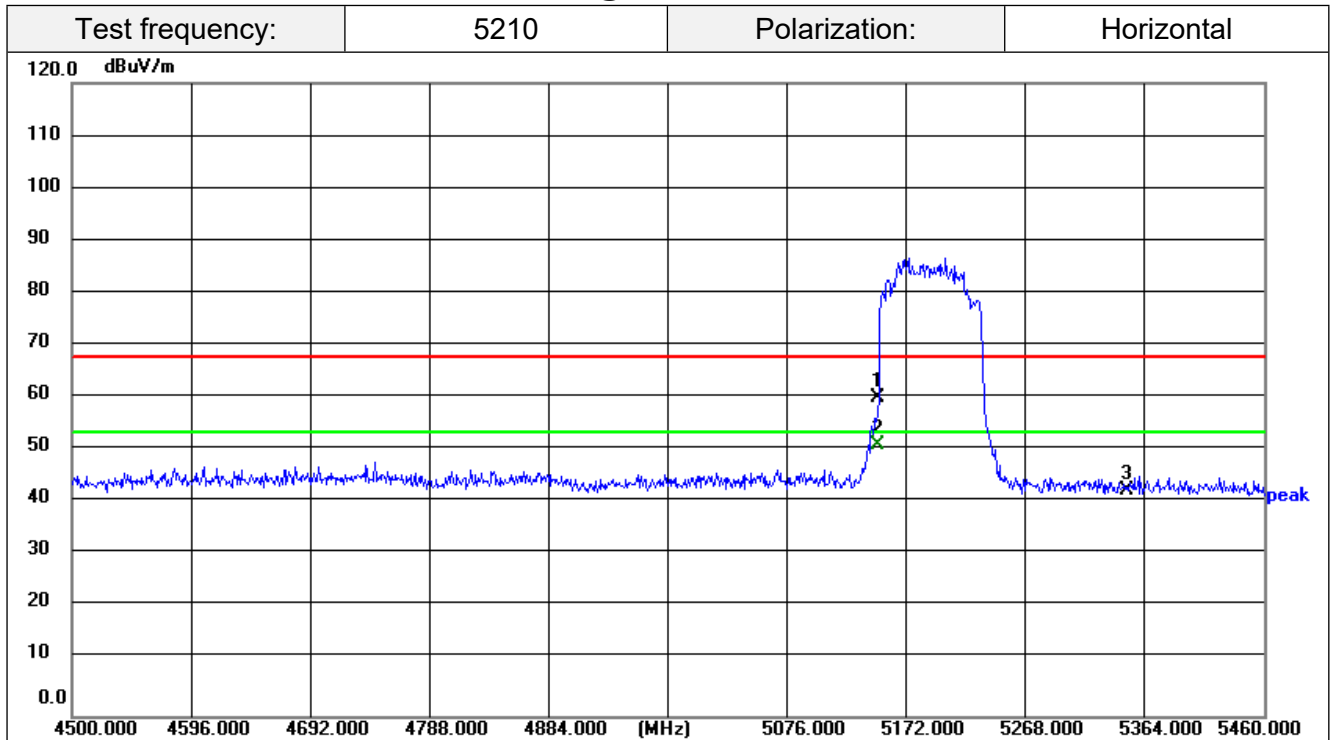


**U-NII 1 & U-NII 2A @ 802.11ax(HE40) MIMO mode**








**U-NII 1 & U-NII 2A @ 802.11ax(HE80) MIMO mode**


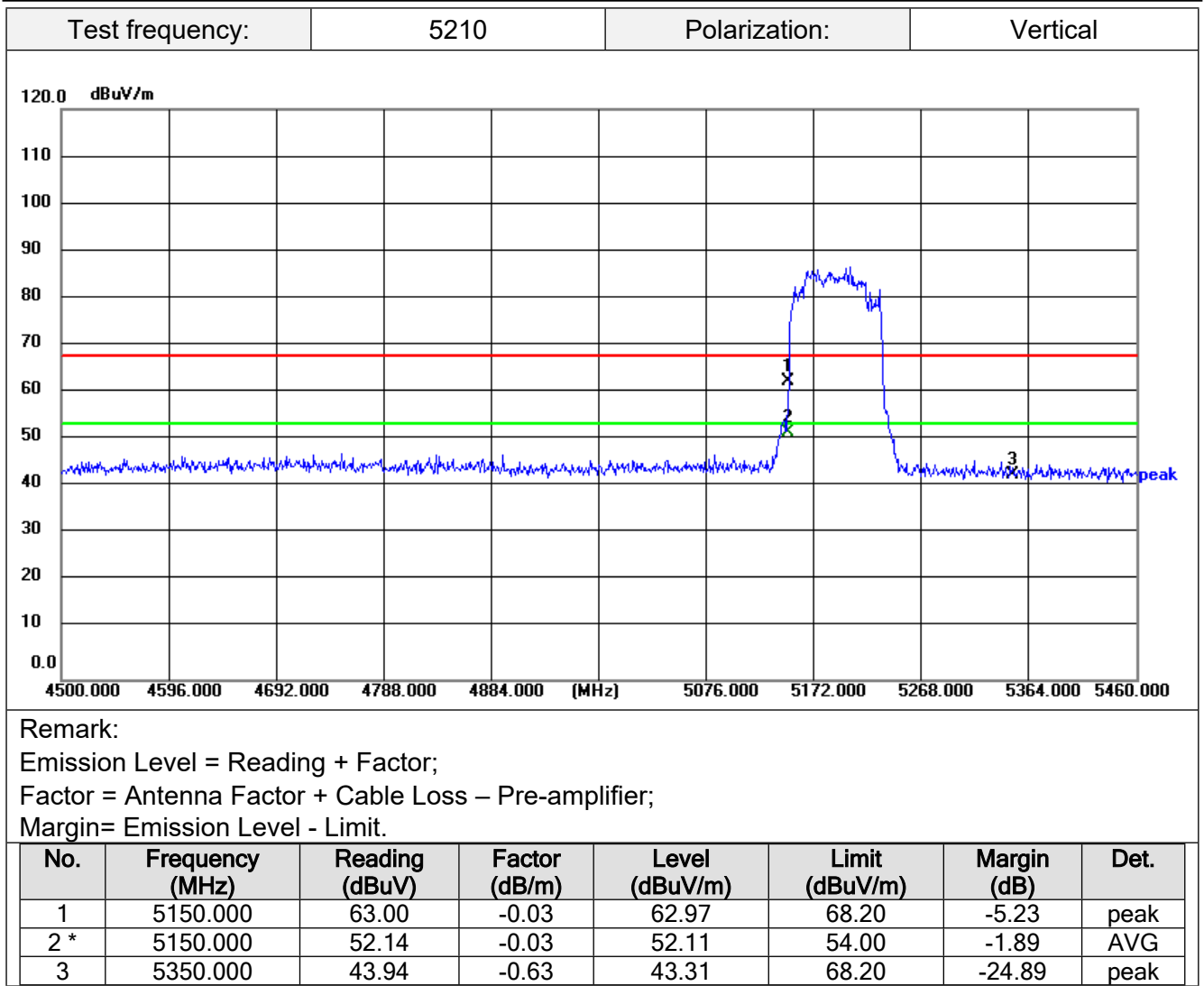
Remark:

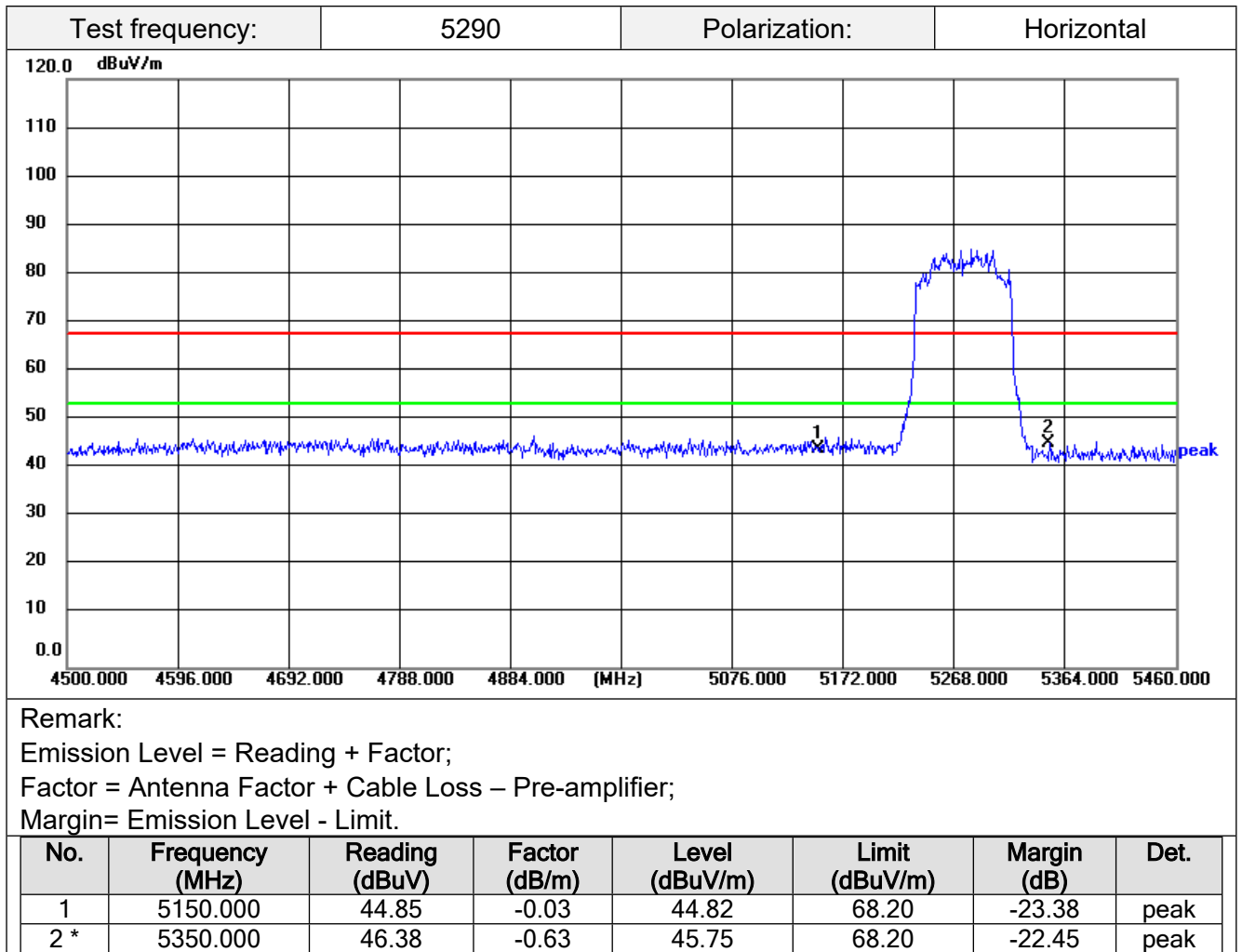
Emission Level = Reading + Factor;

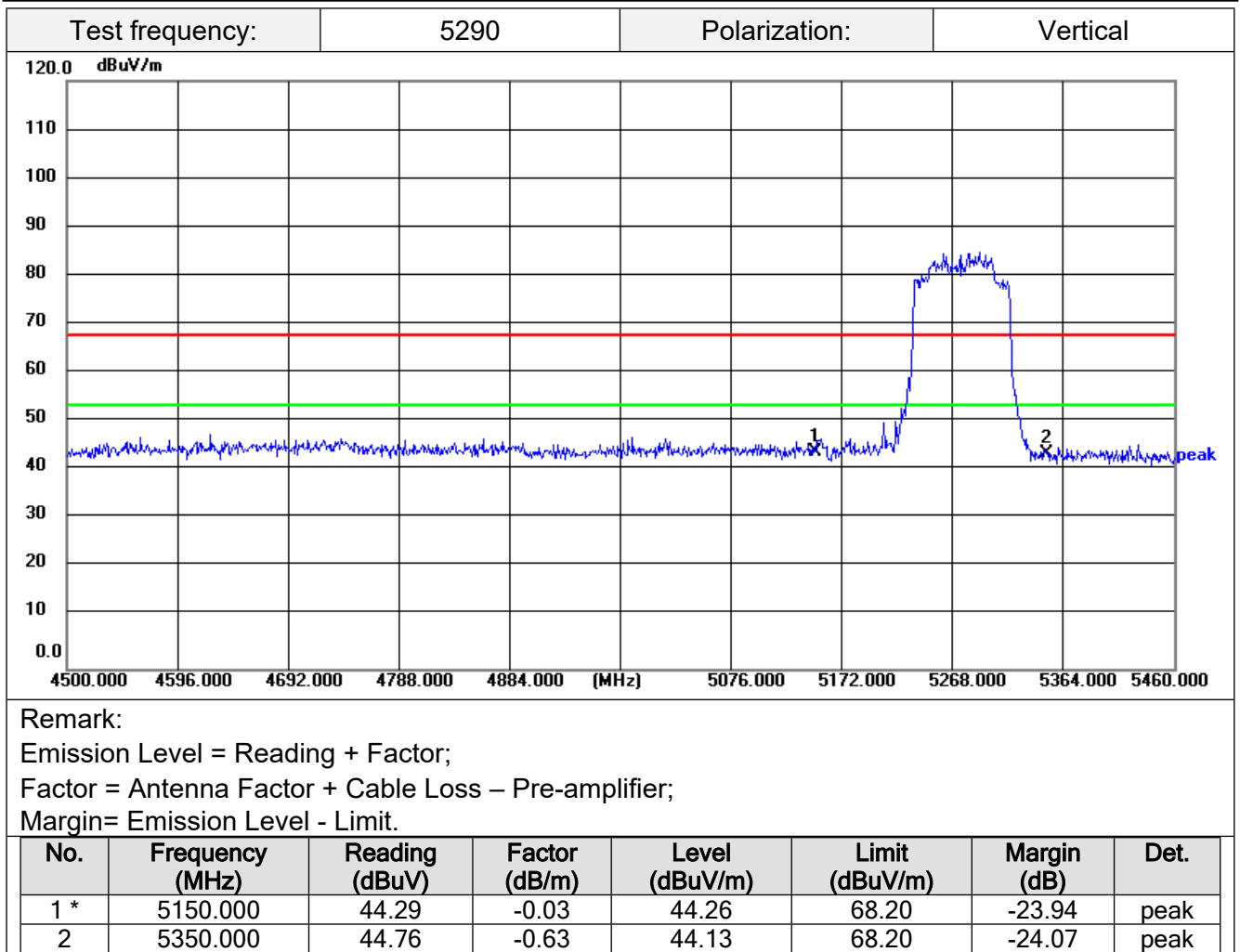
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

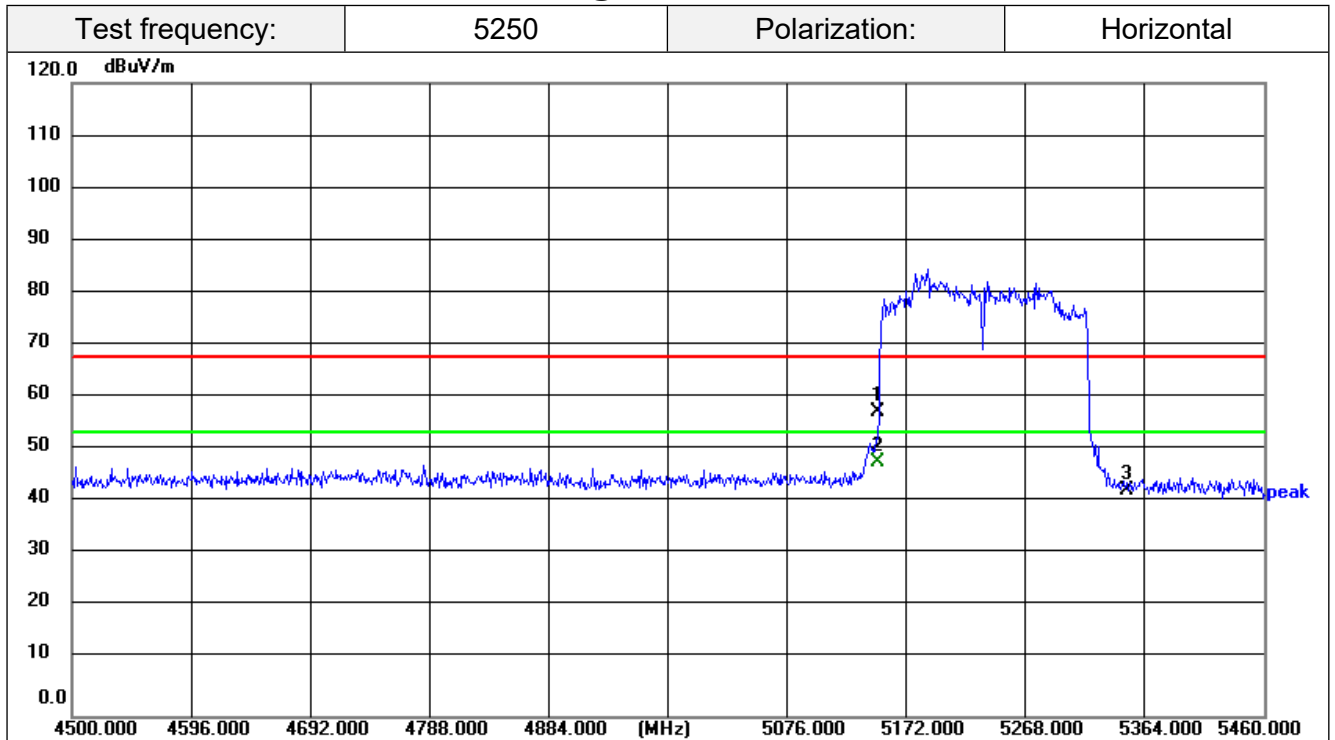
Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5150.000        | 60.39          | -0.03         | 60.36          | 68.20          | -7.84       | peak |
| 2 * | 5150.000        | 51.47          | -0.03         | 51.44          | 54.00          | -2.56       | AVG  |
| 3   | 5350.000        | 43.61          | -0.63         | 42.98          | 68.20          | -25.22      | peak |







**U-NII 1 & U-NII 2A @ 802.11ax(HE160) MIMO mode**


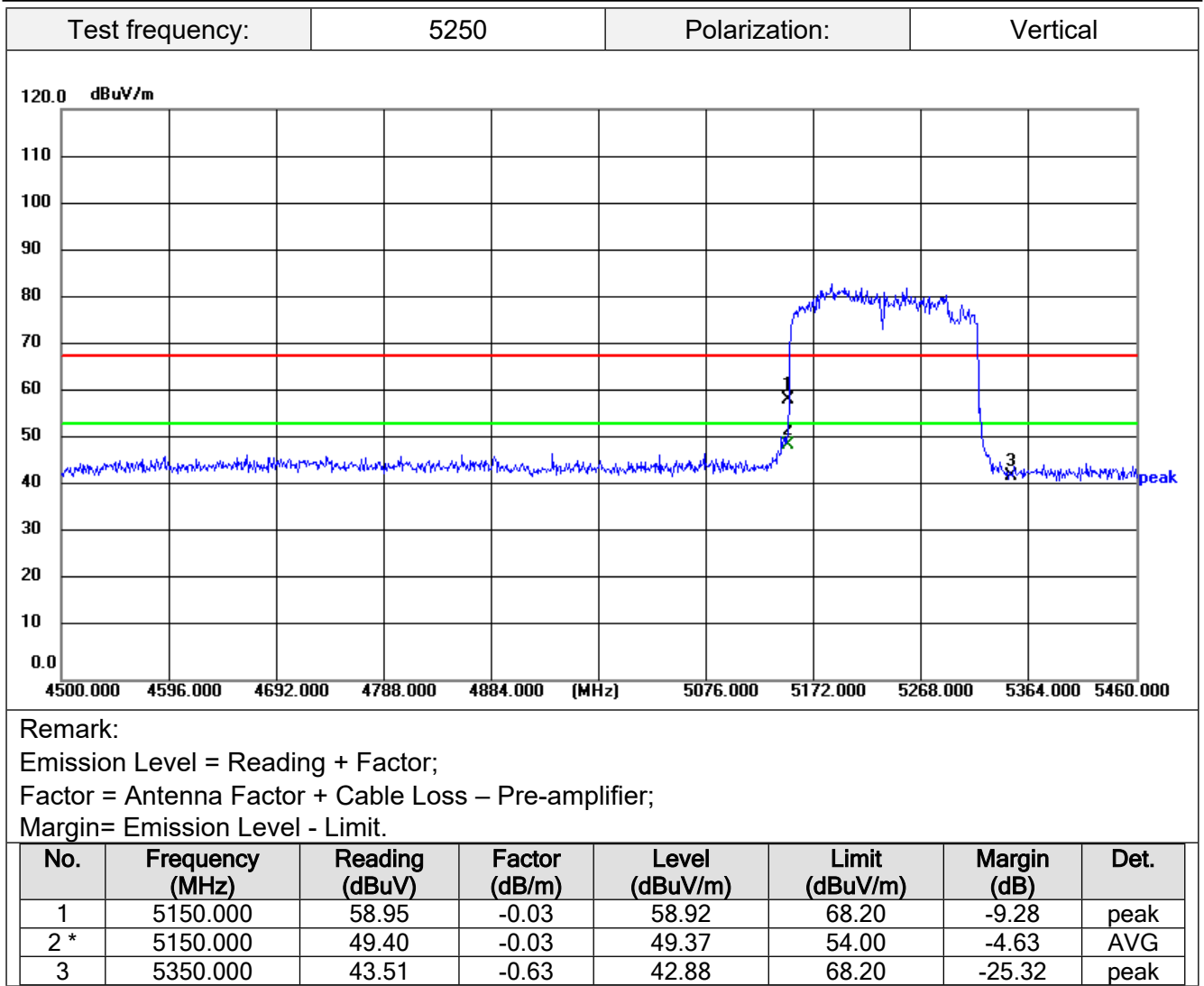
Remark:

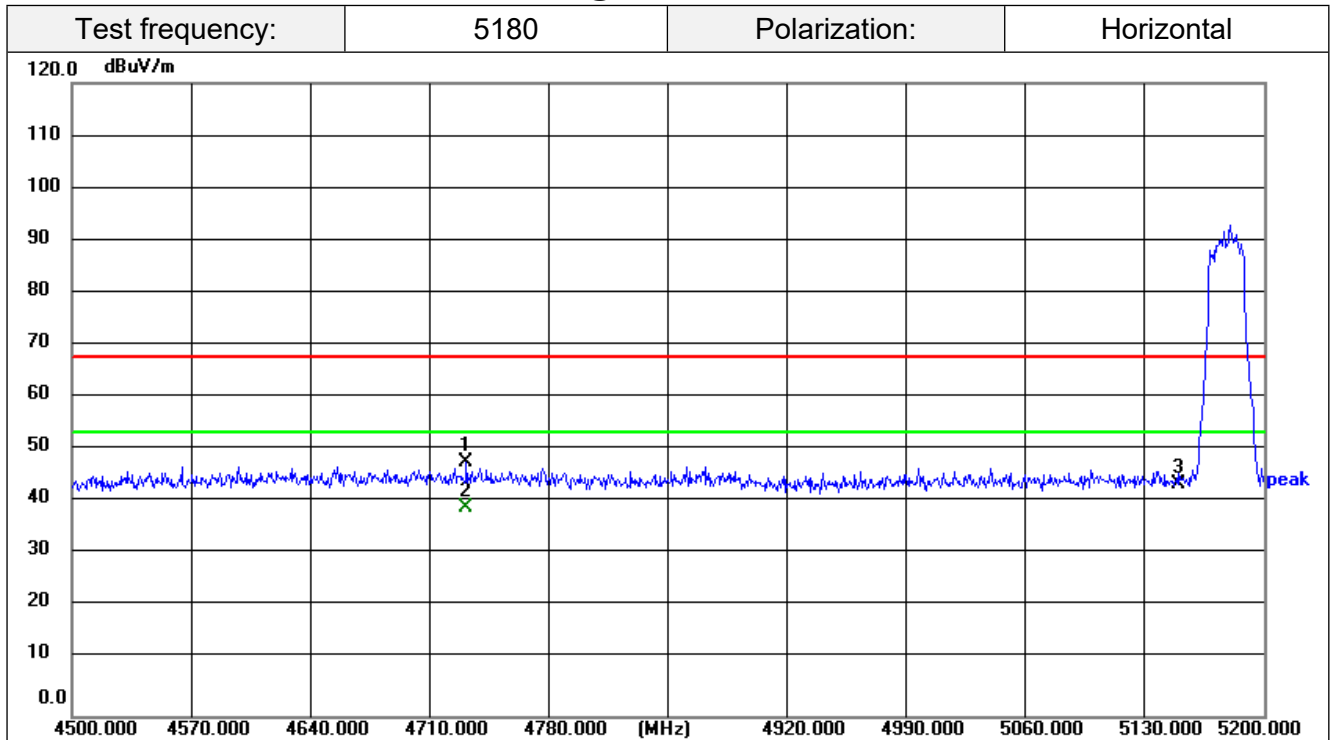
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5150.000        | 57.70          | -0.03         | 57.67          | 68.20          | -10.53      | peak |
| 2 * | 5150.000        | 48.28          | -0.03         | 48.25          | 54.00          | -5.75       | AVG  |
| 3   | 5350.000        | 43.57          | -0.63         | 42.94          | 68.20          | -25.26      | peak |



**U-NII 1 & U-NII 2A @ 802.11be(EHT20) MIMO mode**


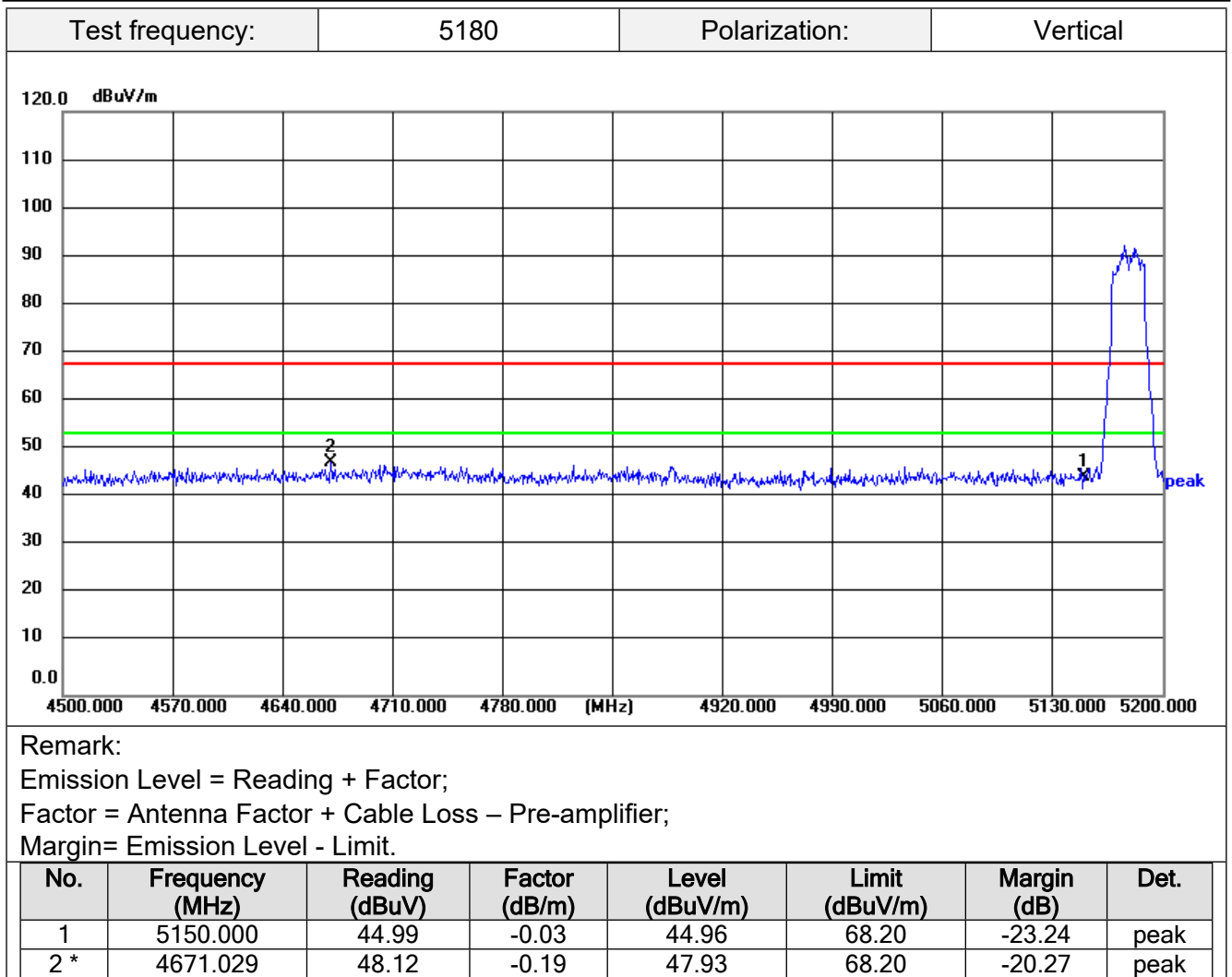
Remark:

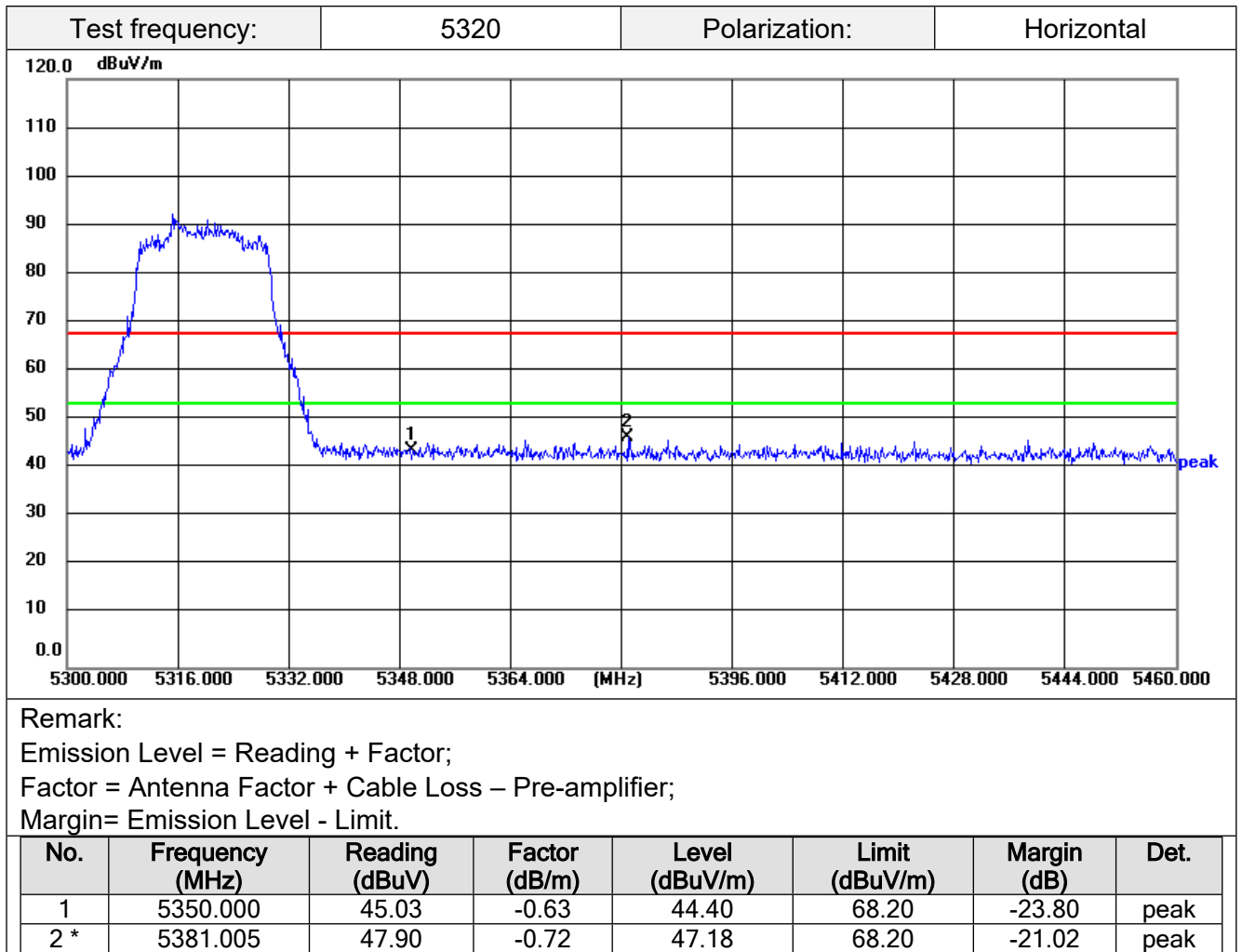
Emission Level = Reading + Factor;

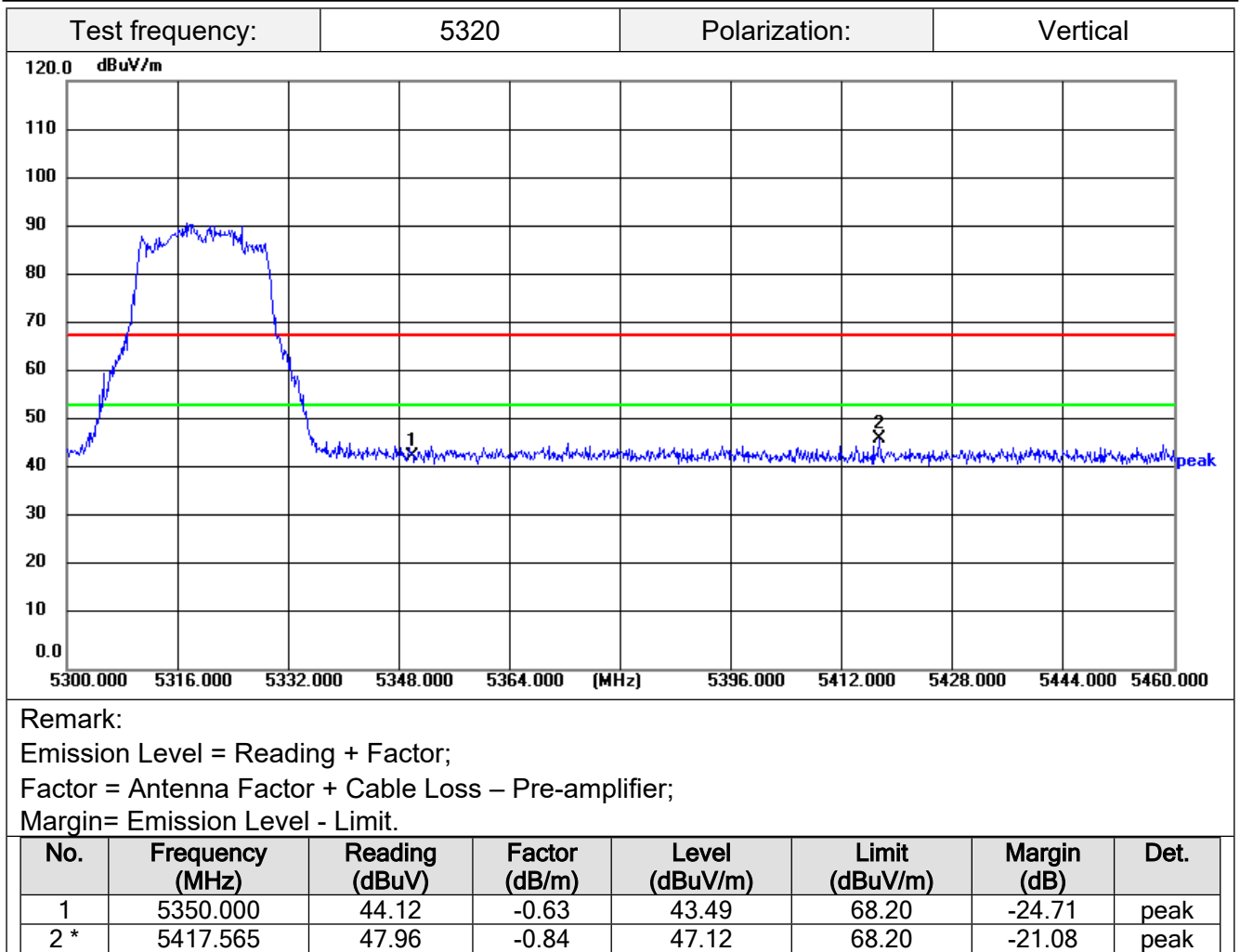
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

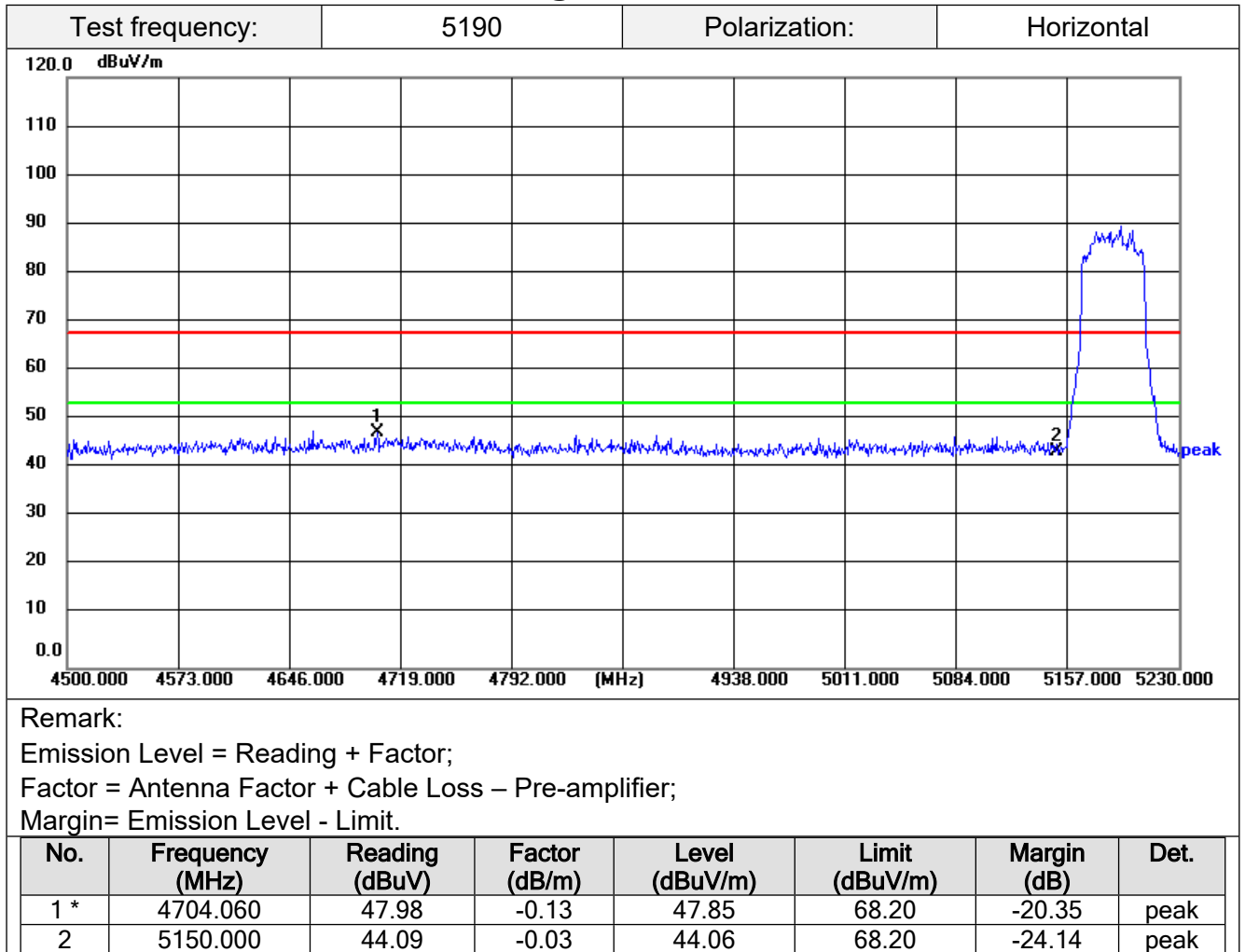
Margin= Emission Level - Limit.

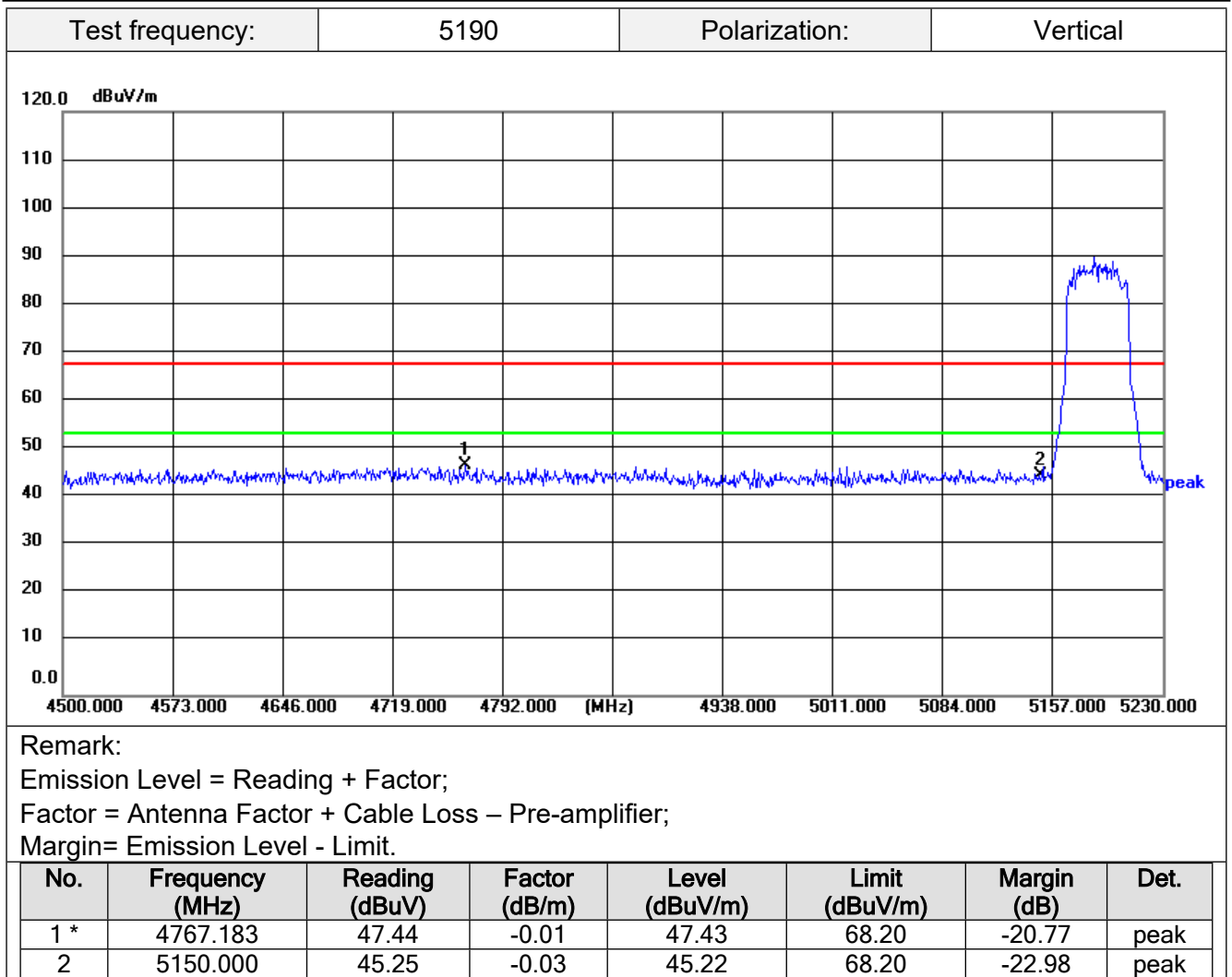
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 4731.751        | 48.23          | -0.08         | 48.15          | 68.20          | -20.05      | peak |
| 2 * | 4731.751        | 39.73          | -0.08         | 39.65          | 54.00          | -14.35      | AVG  |
| 3   | 5150.000        | 44.21          | -0.03         | 44.18          | 68.20          | -24.02      | peak |

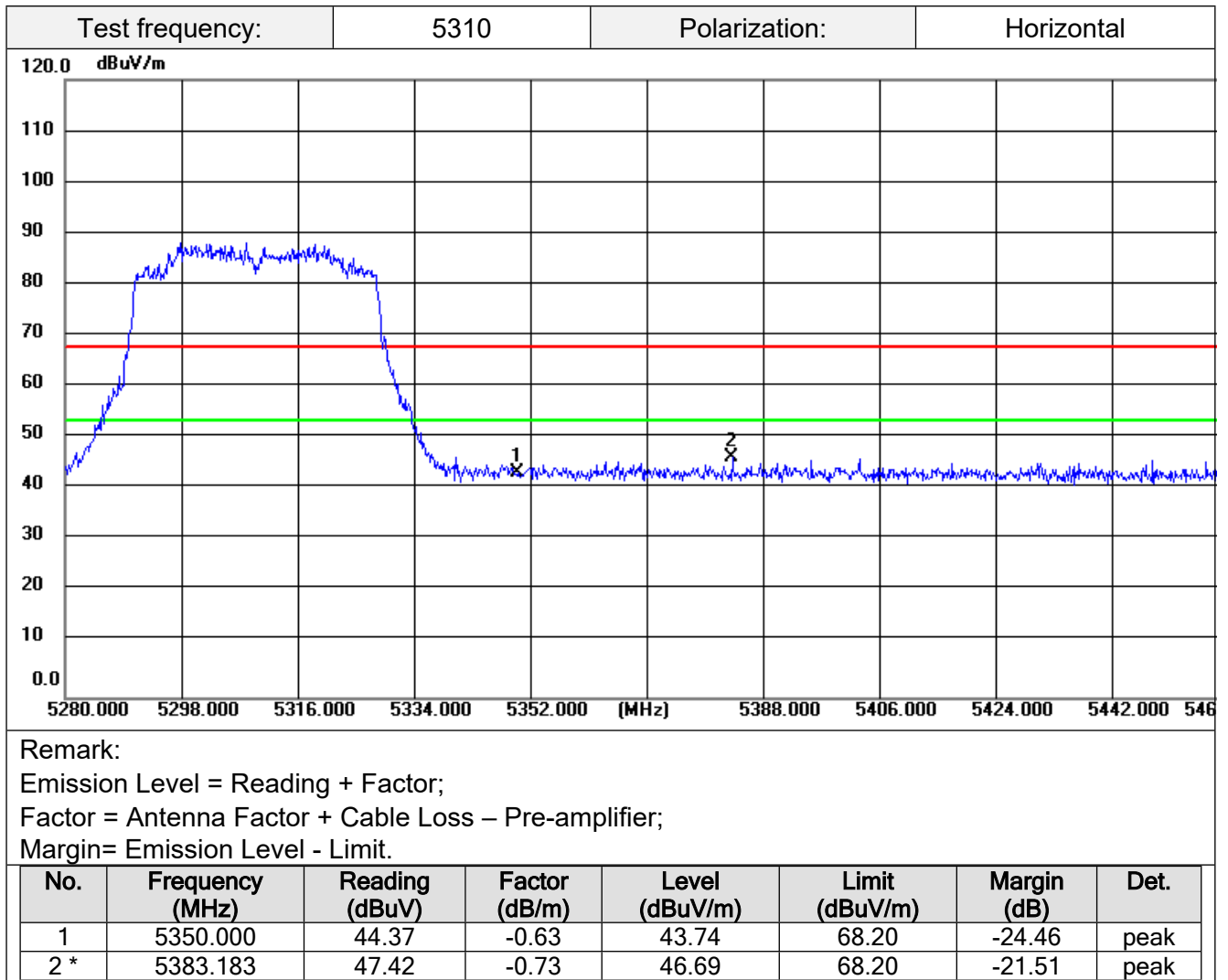


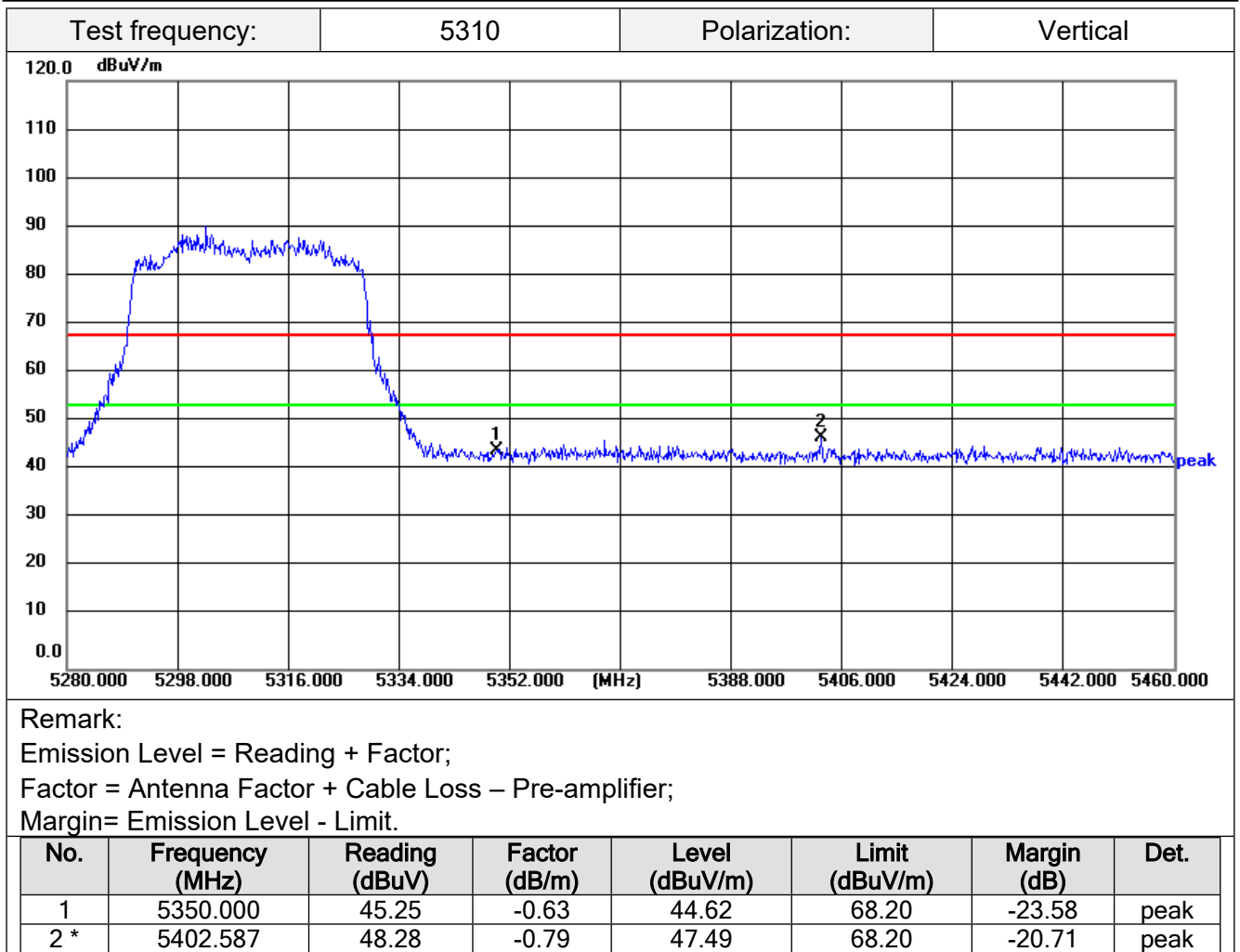


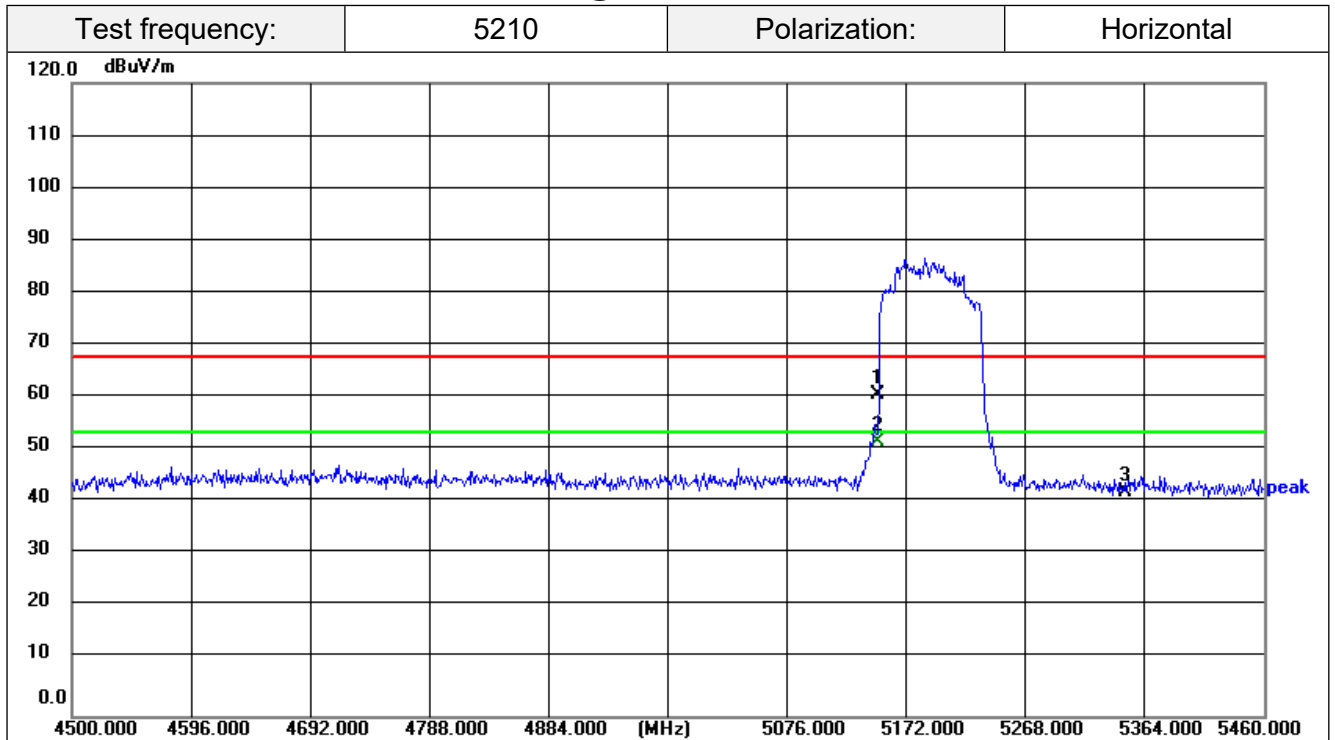


**U-NII 1 & U-NII 2A @ 802.11be(EHT40) MIMO mode**








**U-NII 1 & U-NII 2A @ 802.11be(EHT80) MIMO mode**


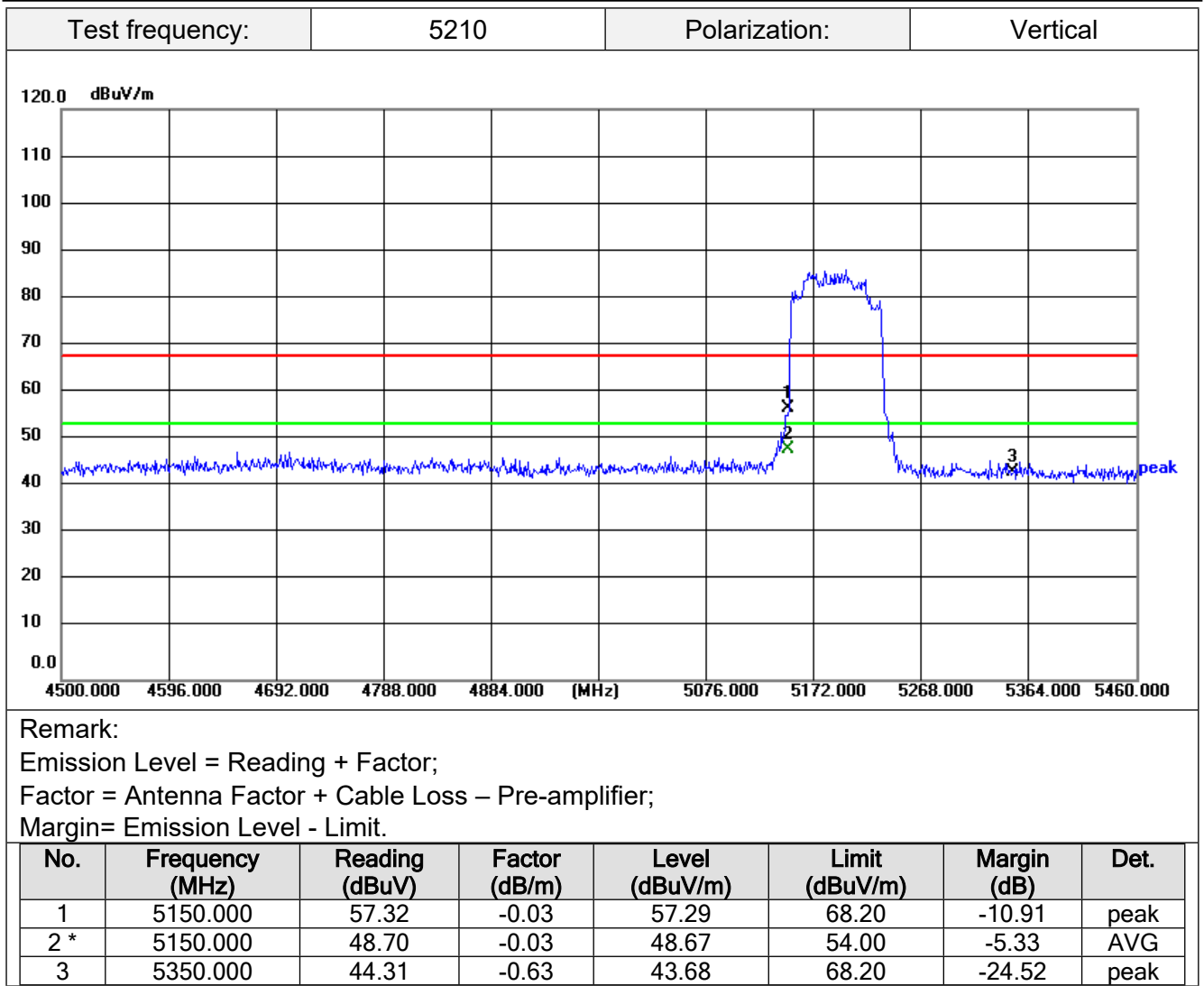
Remark:

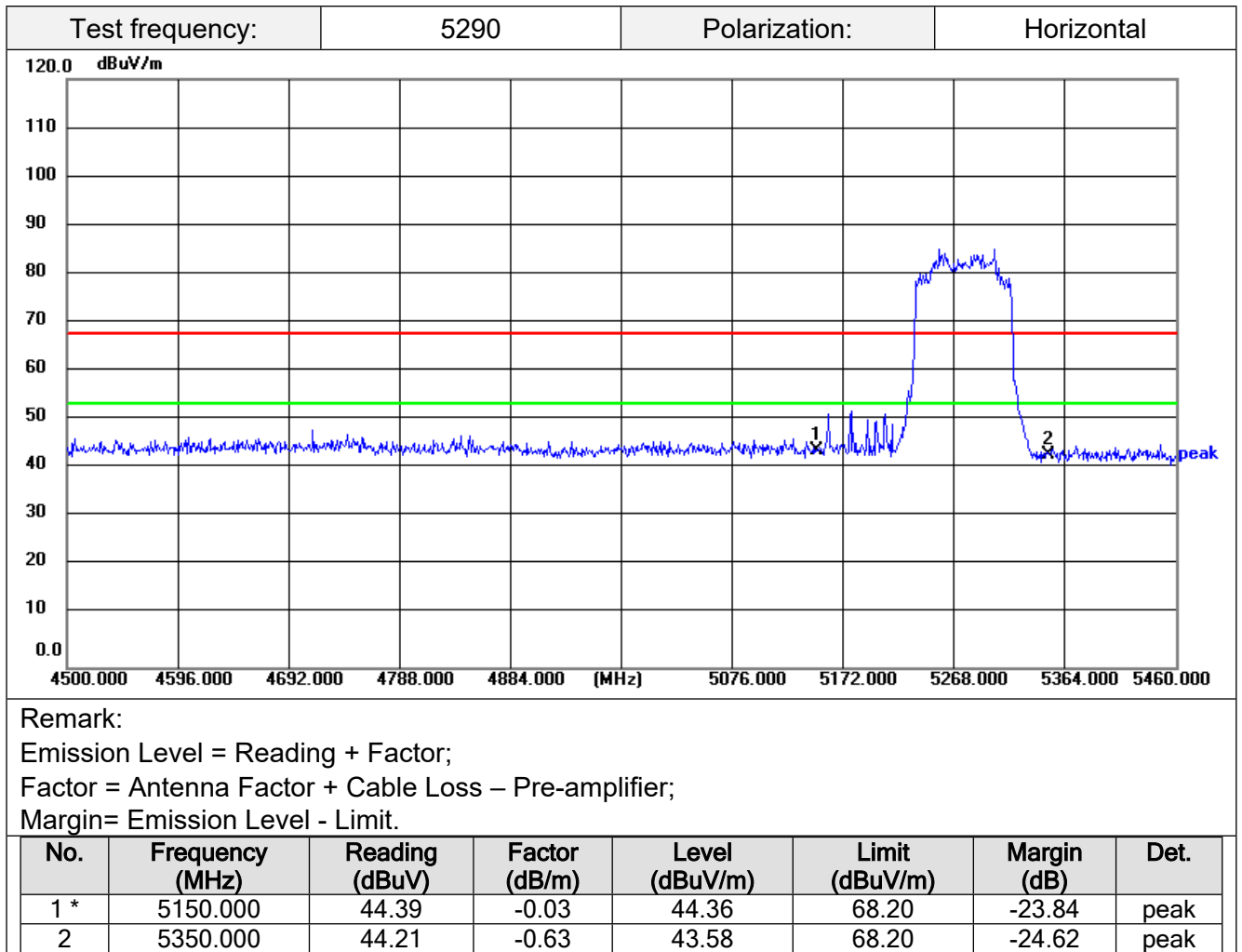
Emission Level = Reading + Factor;

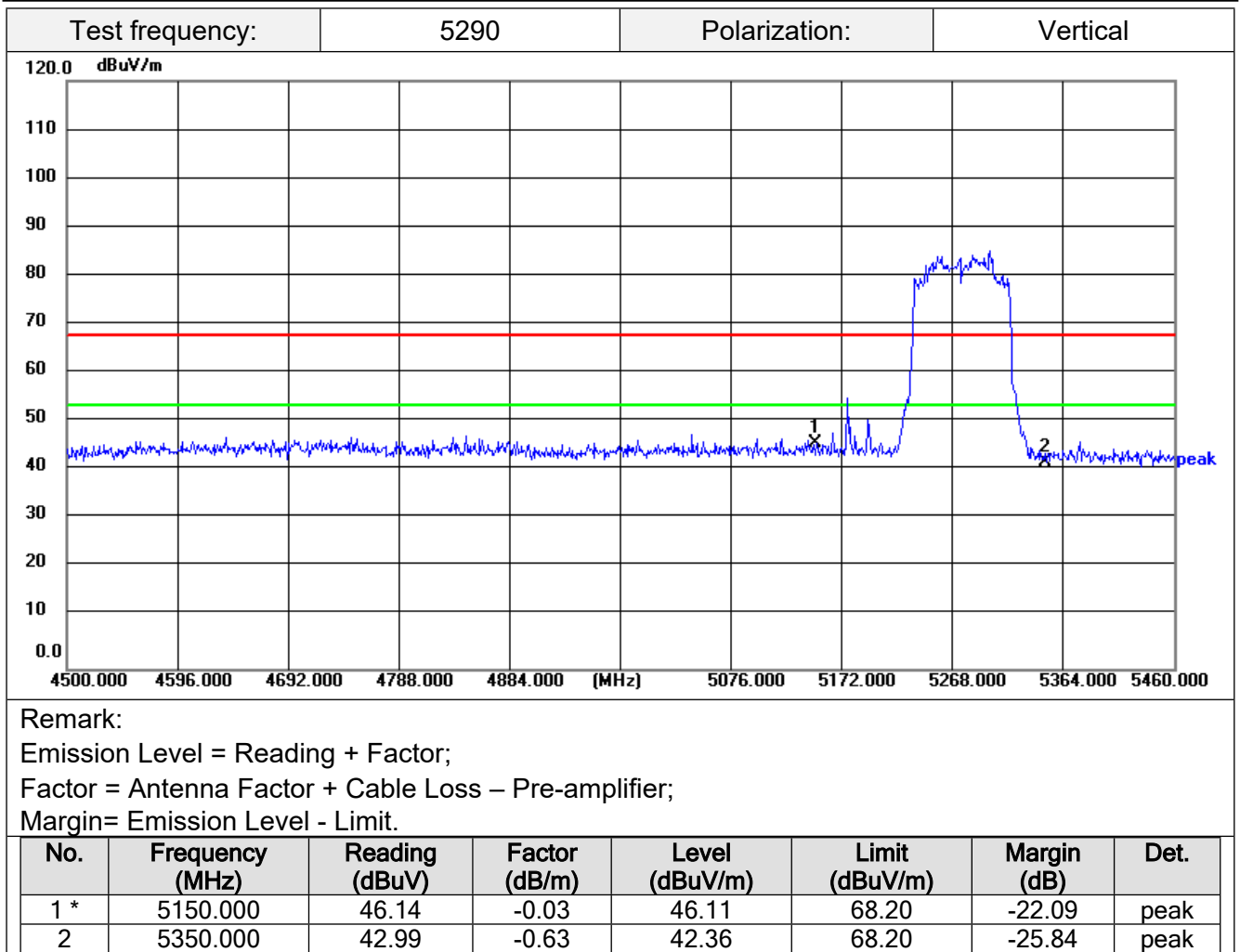
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

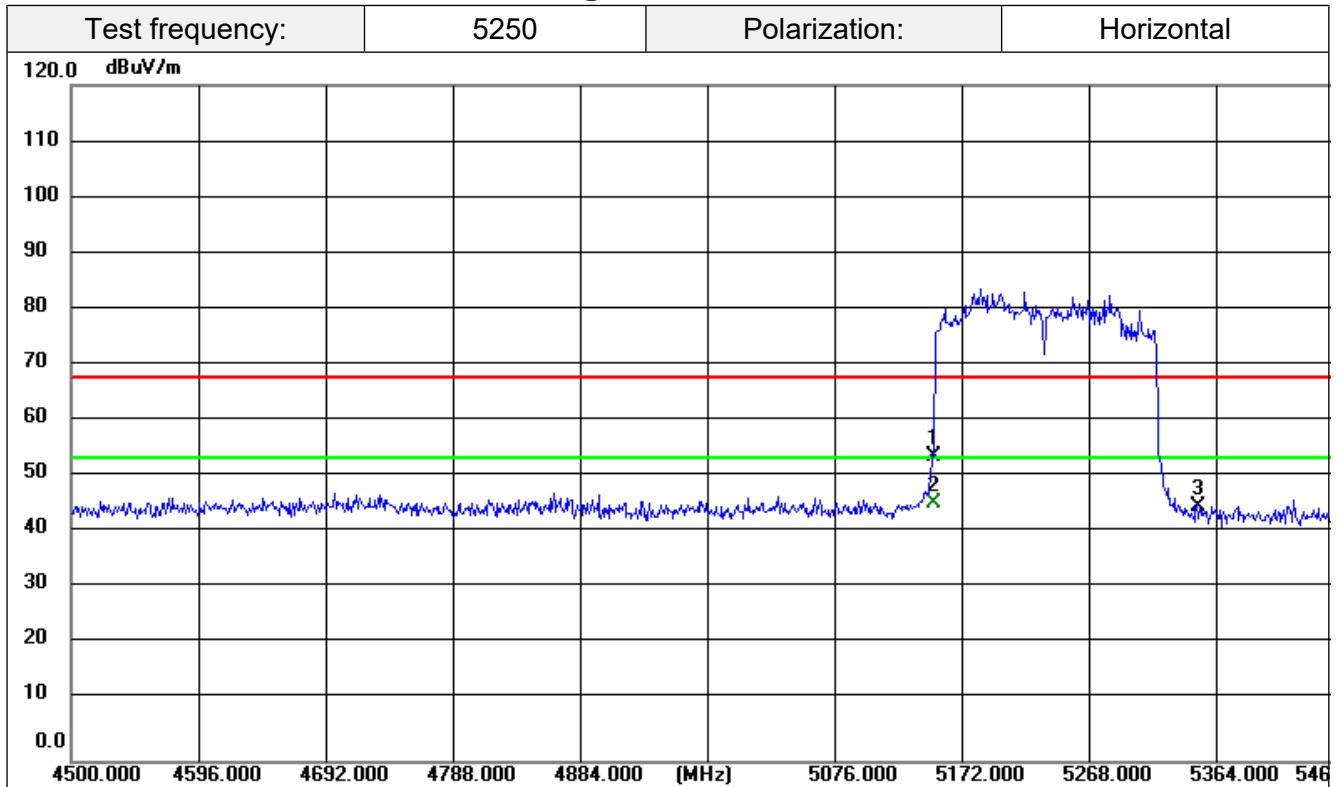
Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5150.000        | 61.19          | -0.03         | 61.16          | 68.20          | -7.04       | peak |
| 2 * | 5150.000        | 52.27          | -0.03         | 52.24          | 54.00          | -1.76       | AVG  |
| 3   | 5350.000        | 43.23          | -0.63         | 42.60          | 68.20          | -25.60      | peak |







**U-NII 1 & U-NII 2A @ 802.11be(EHT160) MIMO mode**


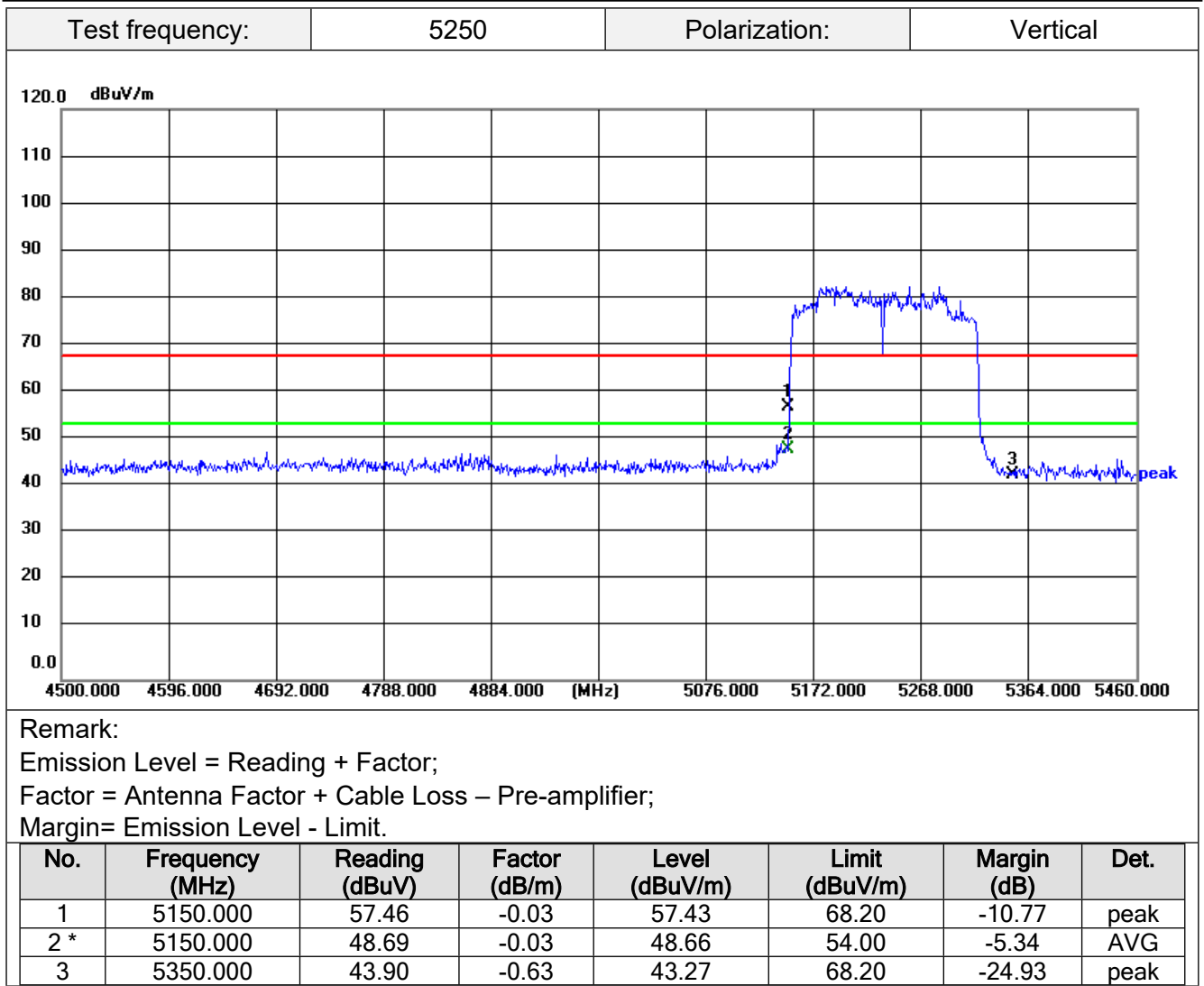
Remark:

Emission Level = Reading + Factor;

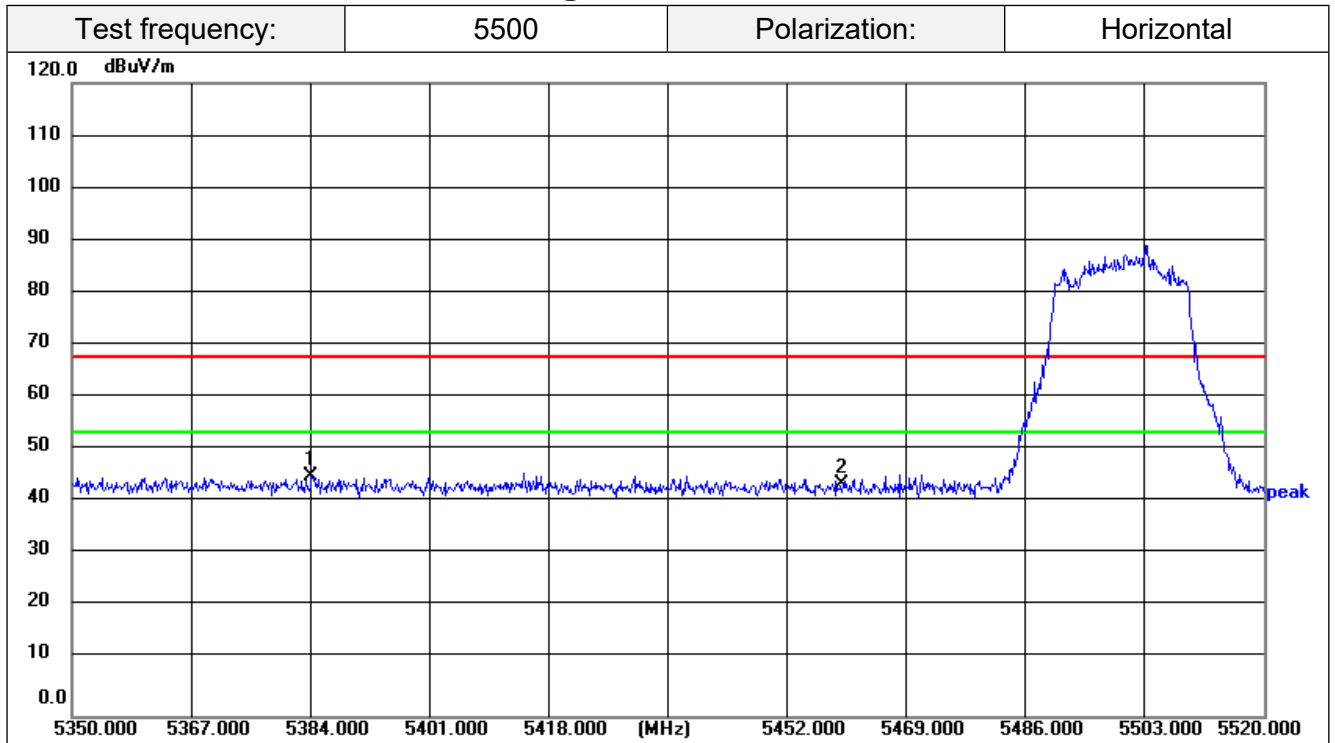
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5150.000        | 54.11          | -0.03         | 54.08          | 68.20          | -14.12      | peak |
| 2 * | 5150.000        | 45.90          | -0.03         | 45.87          | 54.00          | -8.13       | AVG  |
| 3   | 5350.000        | 45.79          | -0.63         | 45.16          | 68.20          | -23.04      | peak |



### U-NII 2C @ 802.11a mode antenna 1



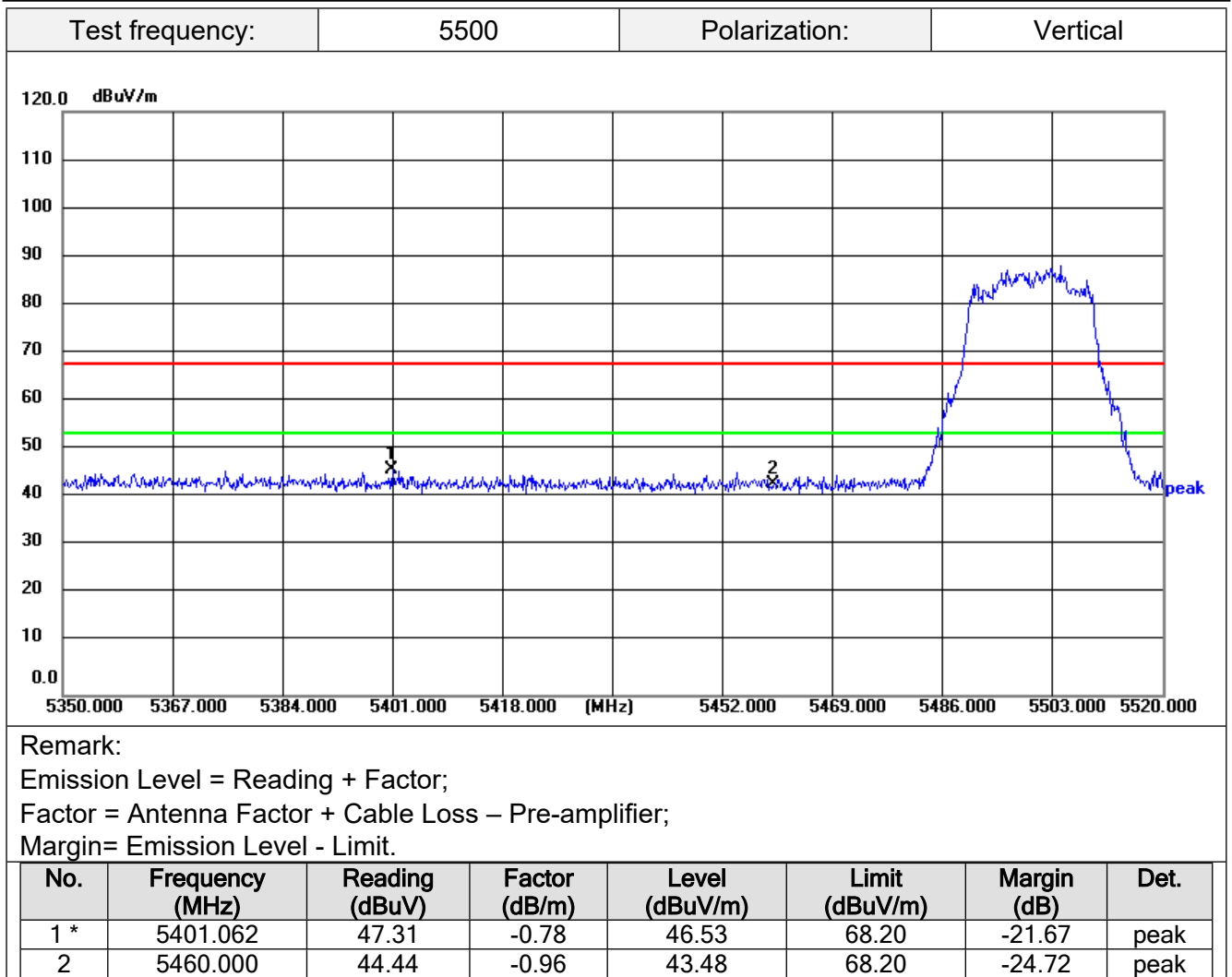
Remark:

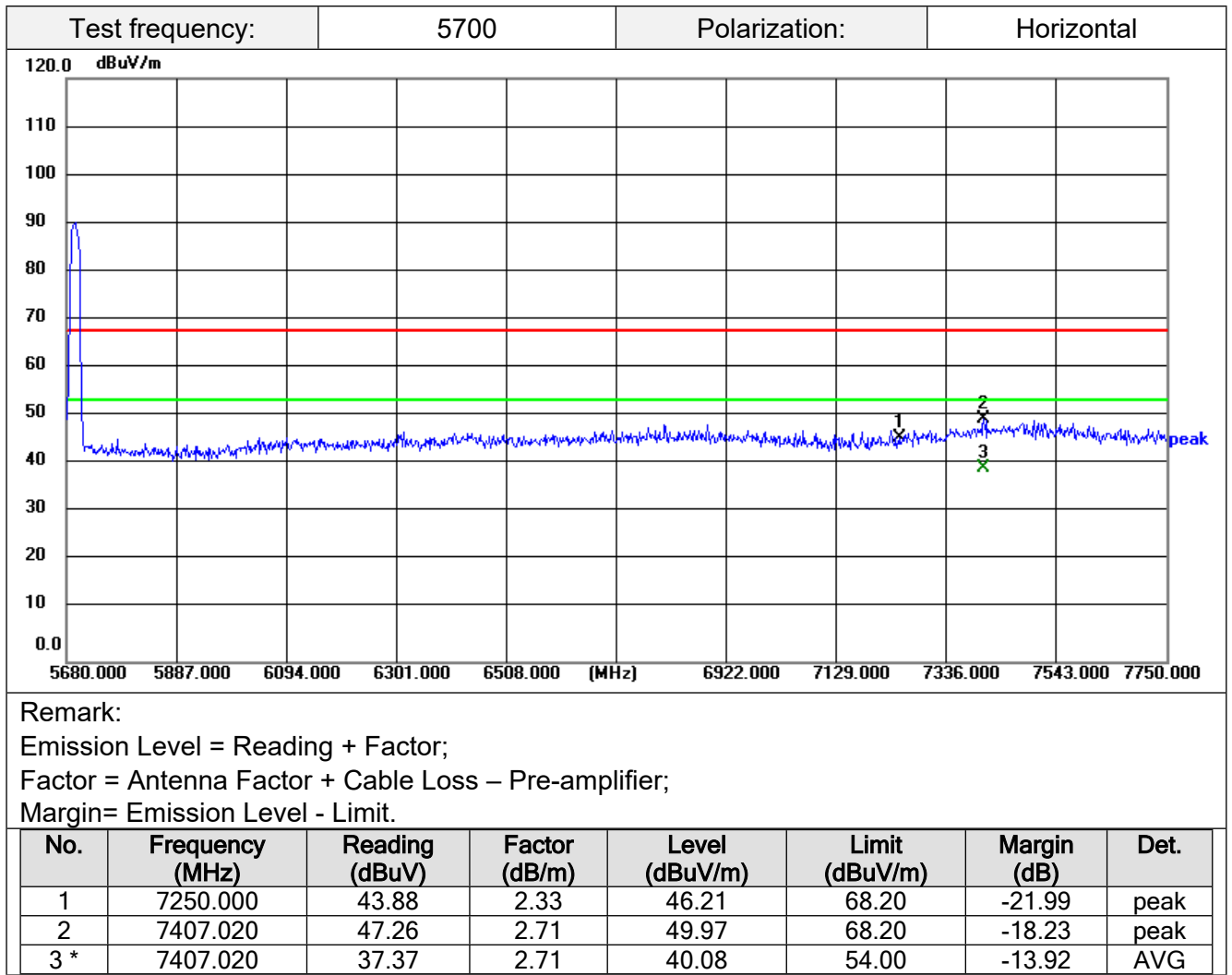
Emission Level = Reading + Factor;

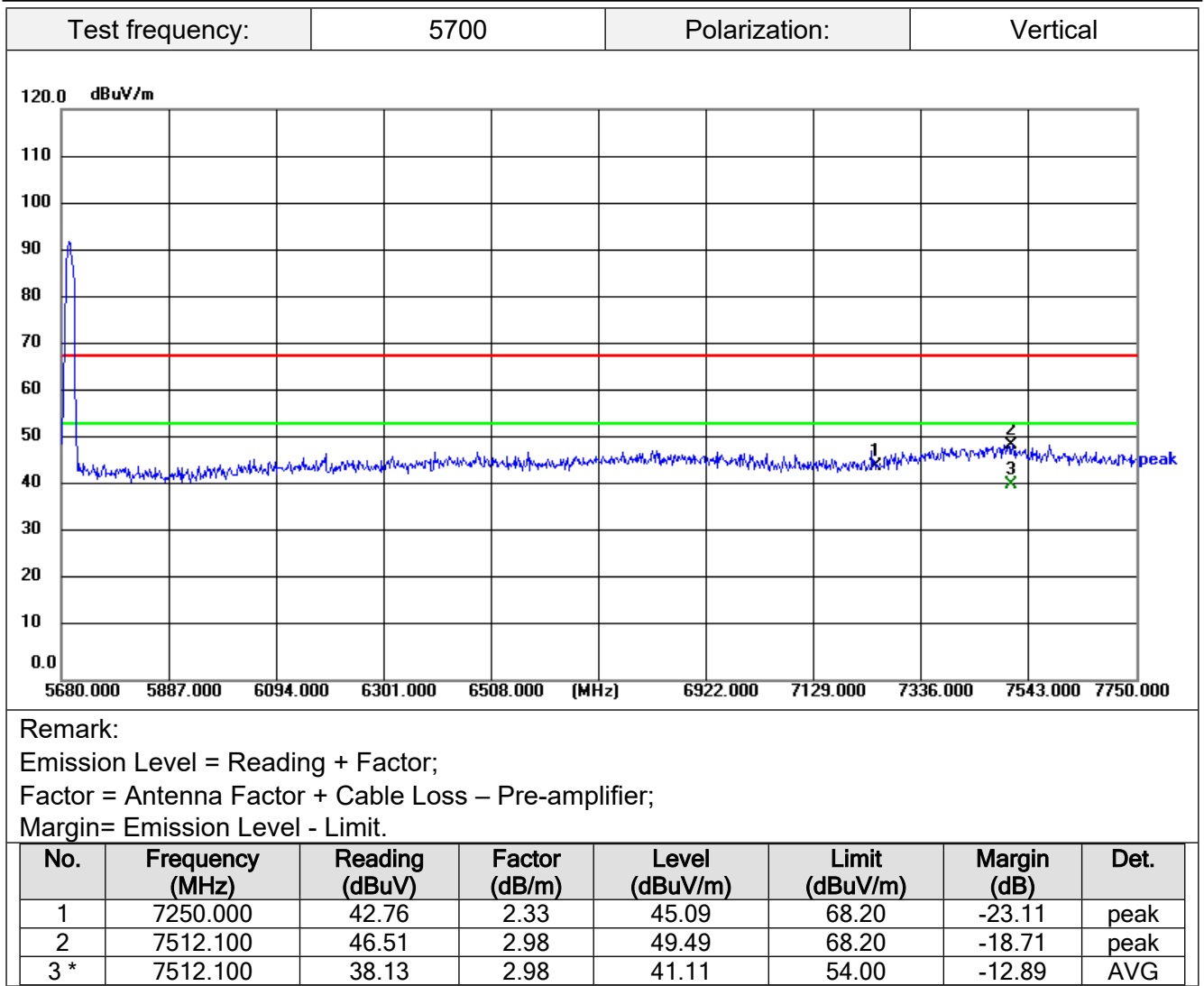
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

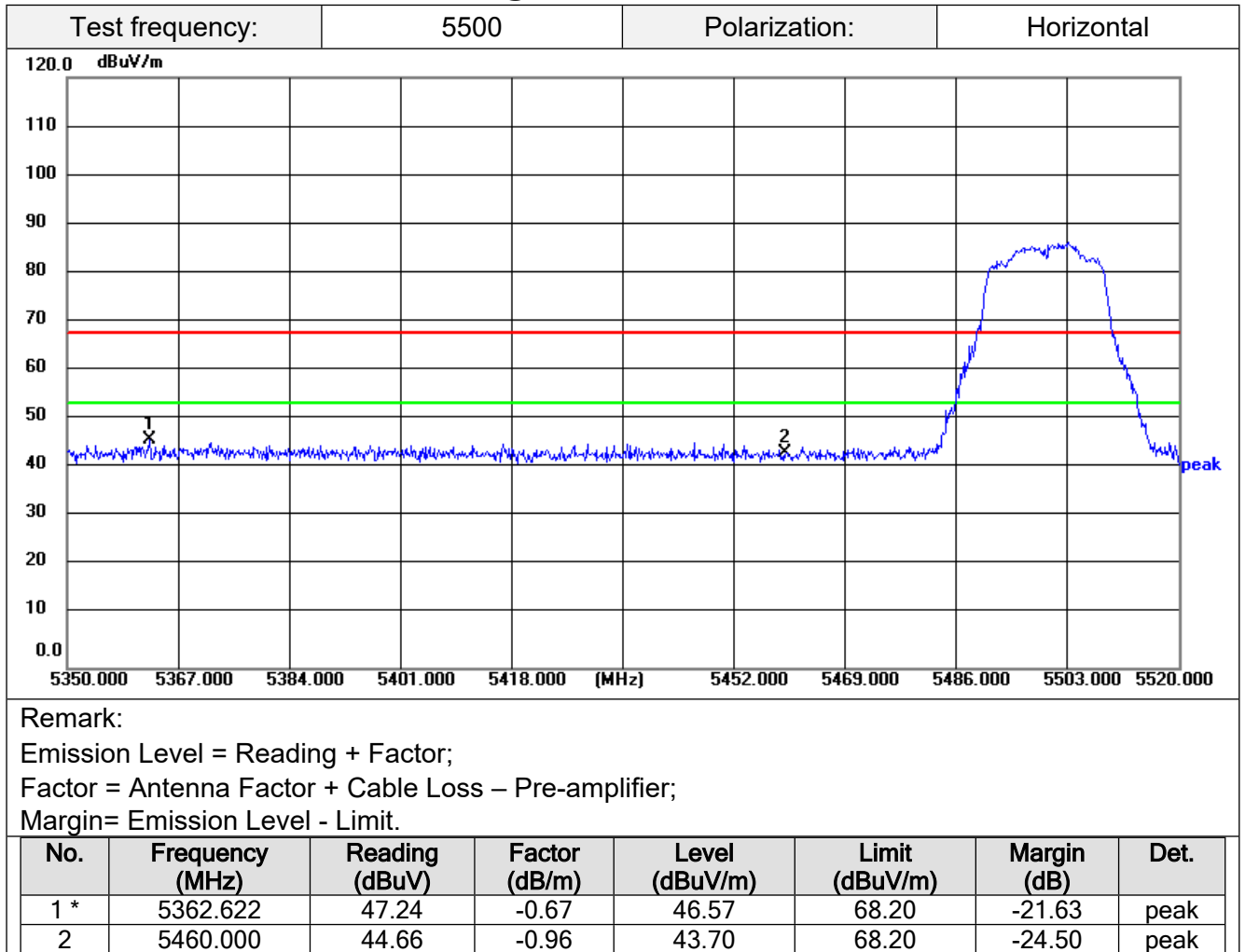
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1 * | 5384.193        | 46.40          | -0.73         | 45.67          | 68.20          | -22.53      | peak |
| 2   | 5460.000        | 45.12          | -0.96         | 44.16          | 68.20          | -24.04      | peak |

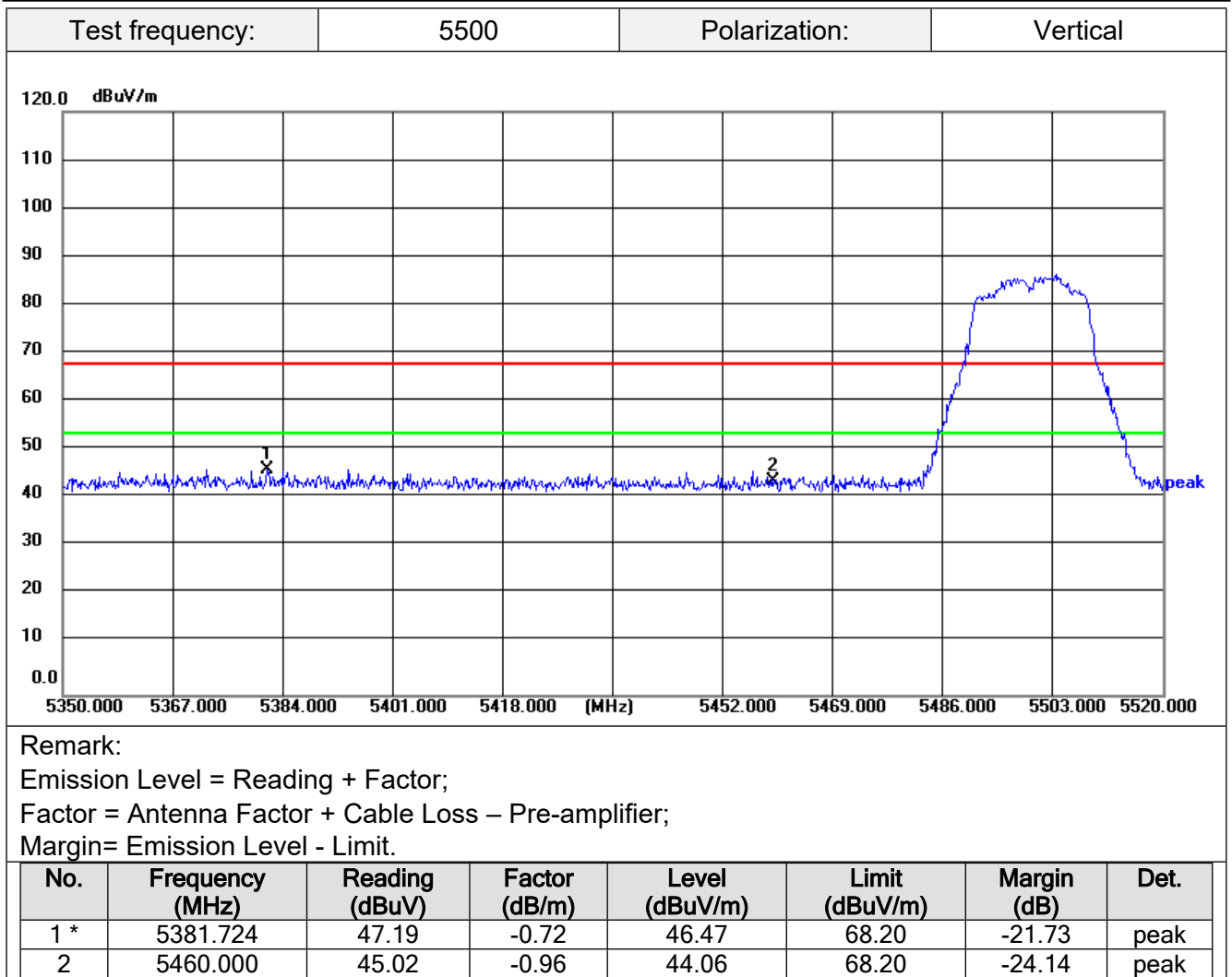


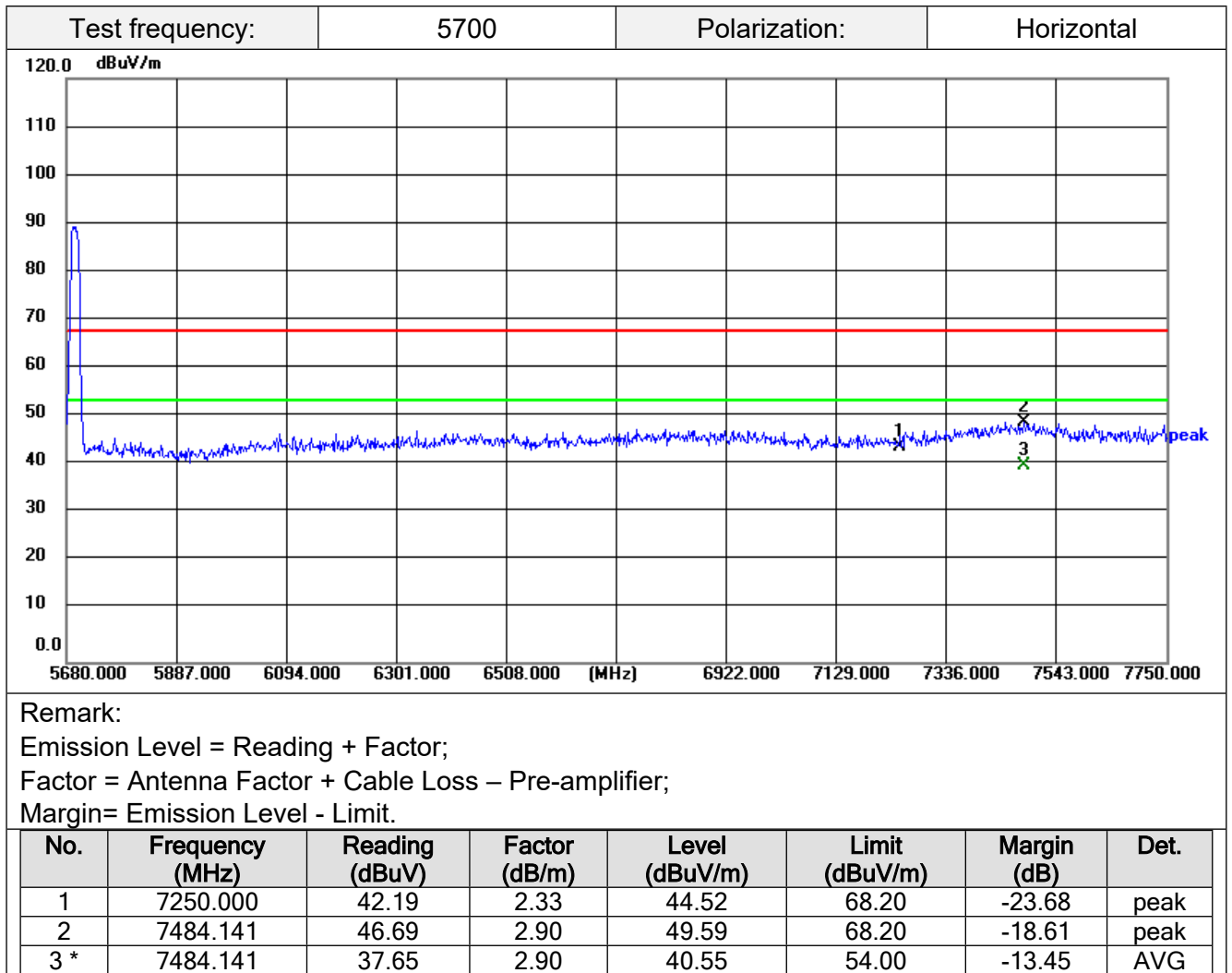


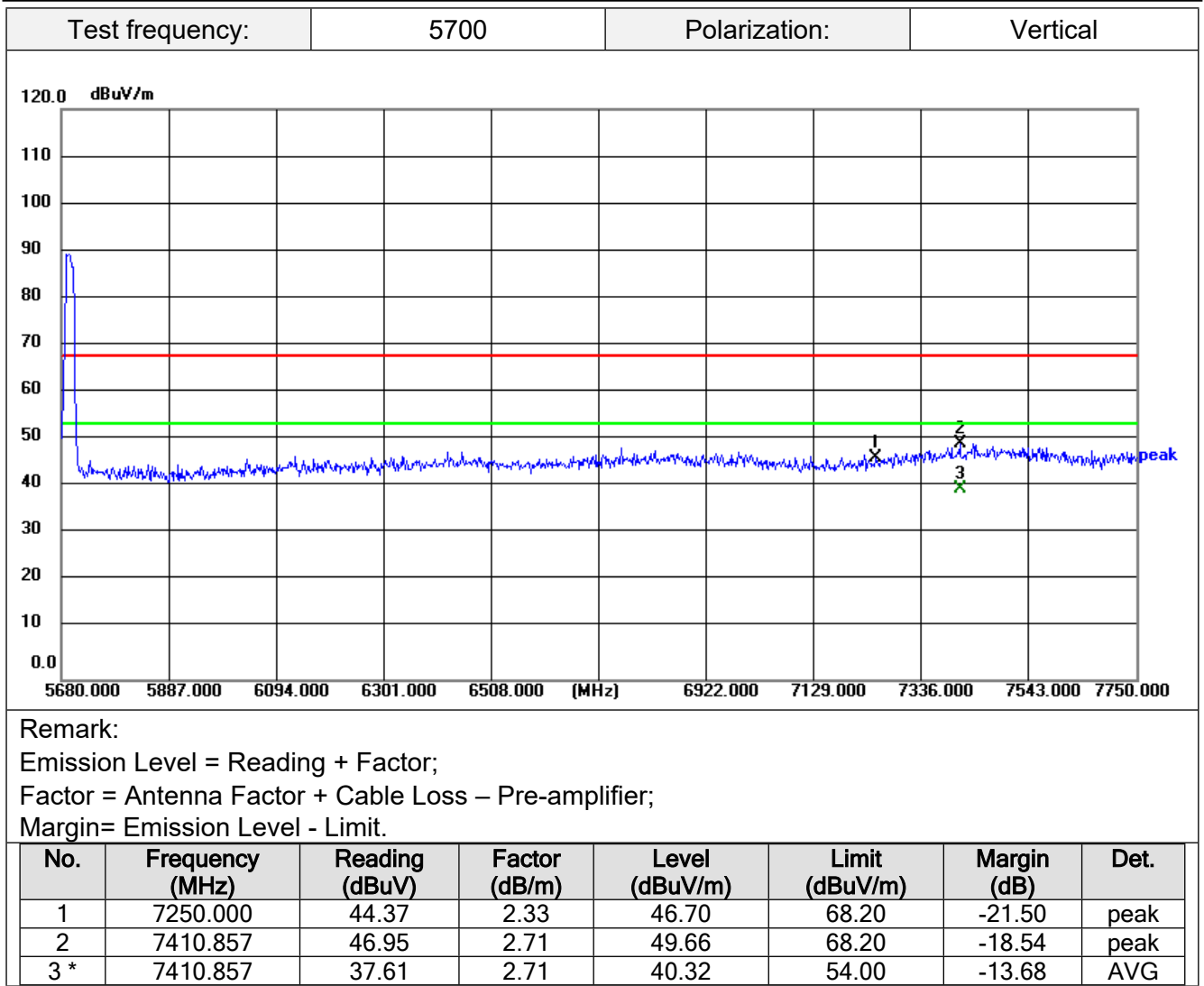


### U-NII 2C @ 802.11n(HT20) MIMO mode

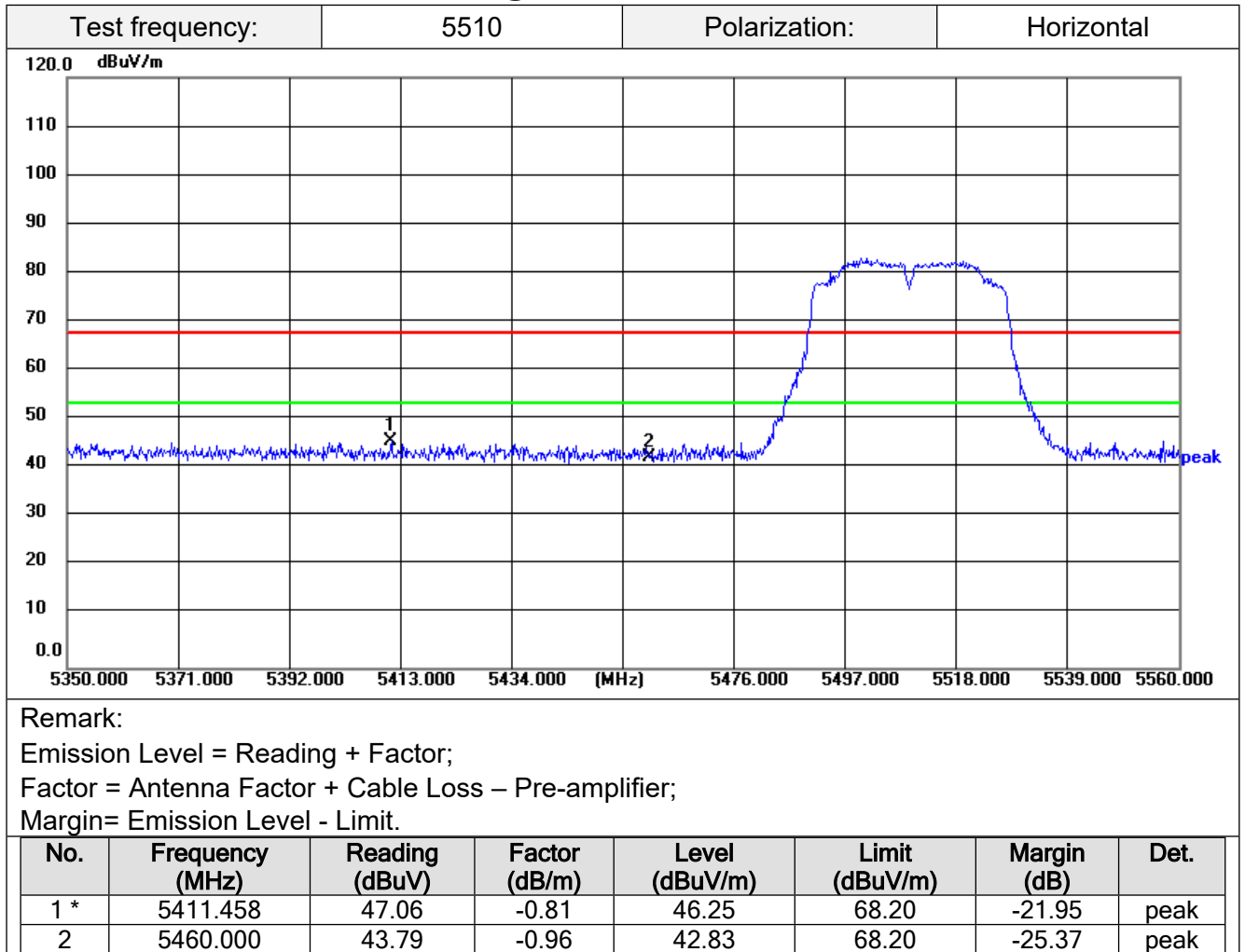


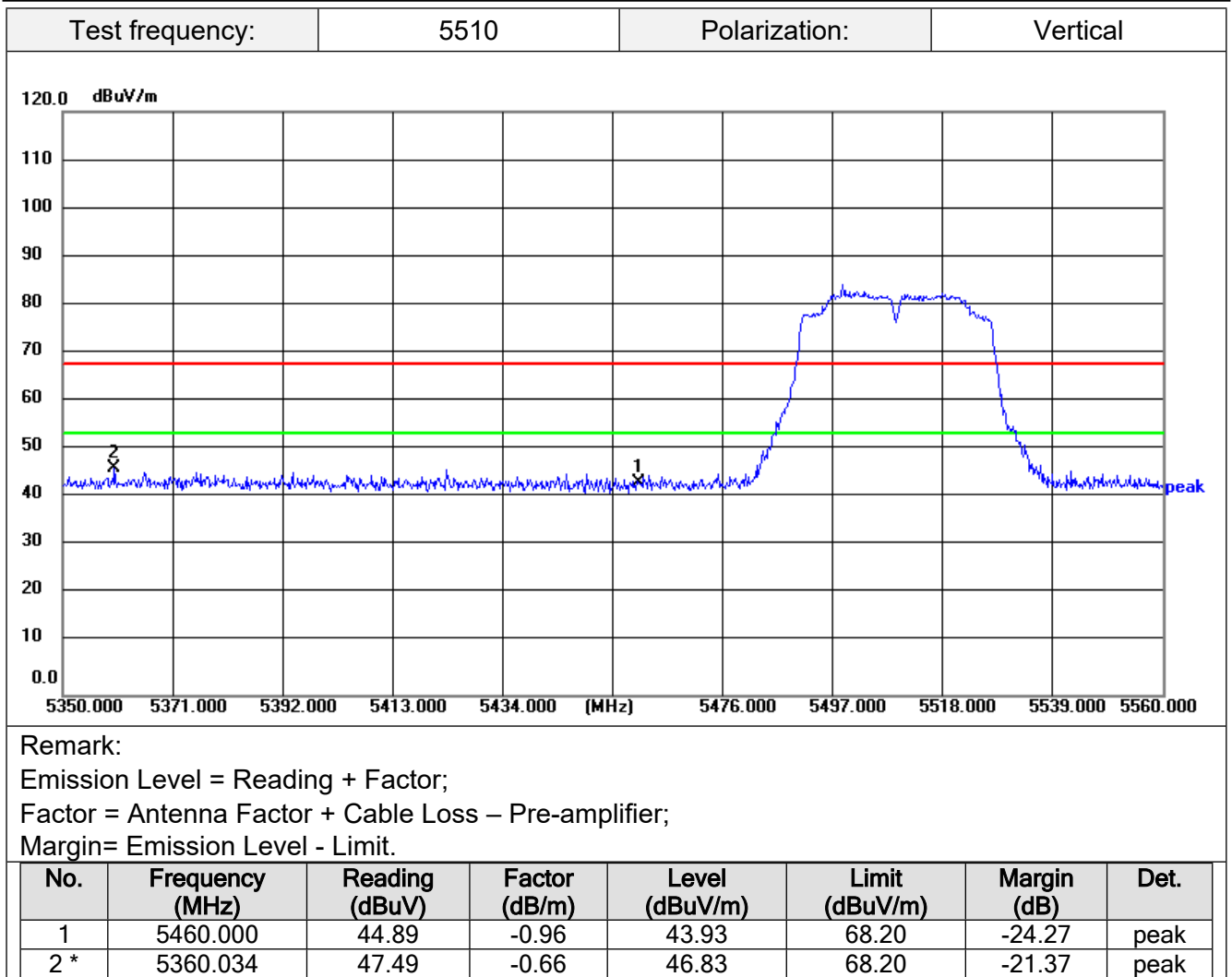


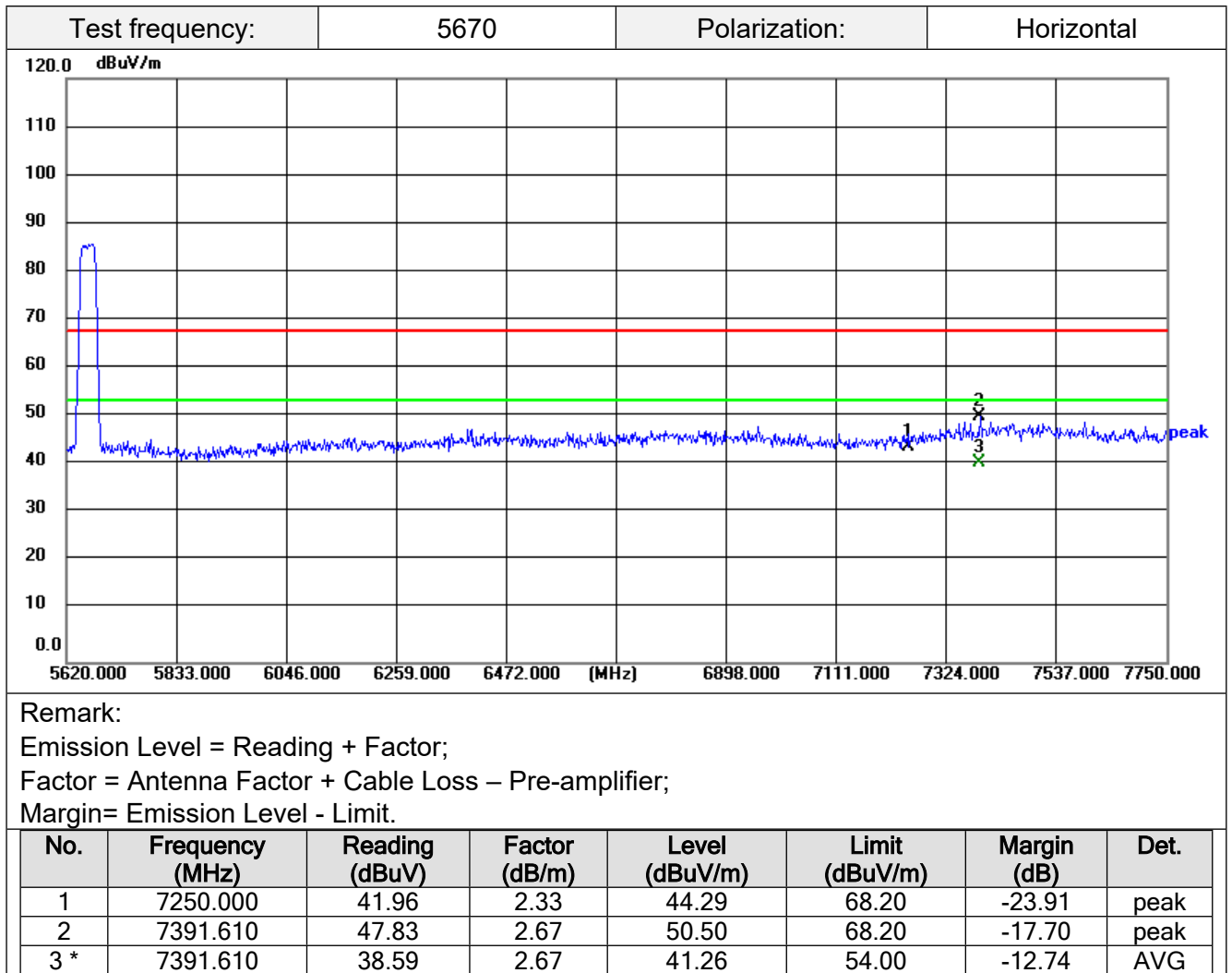


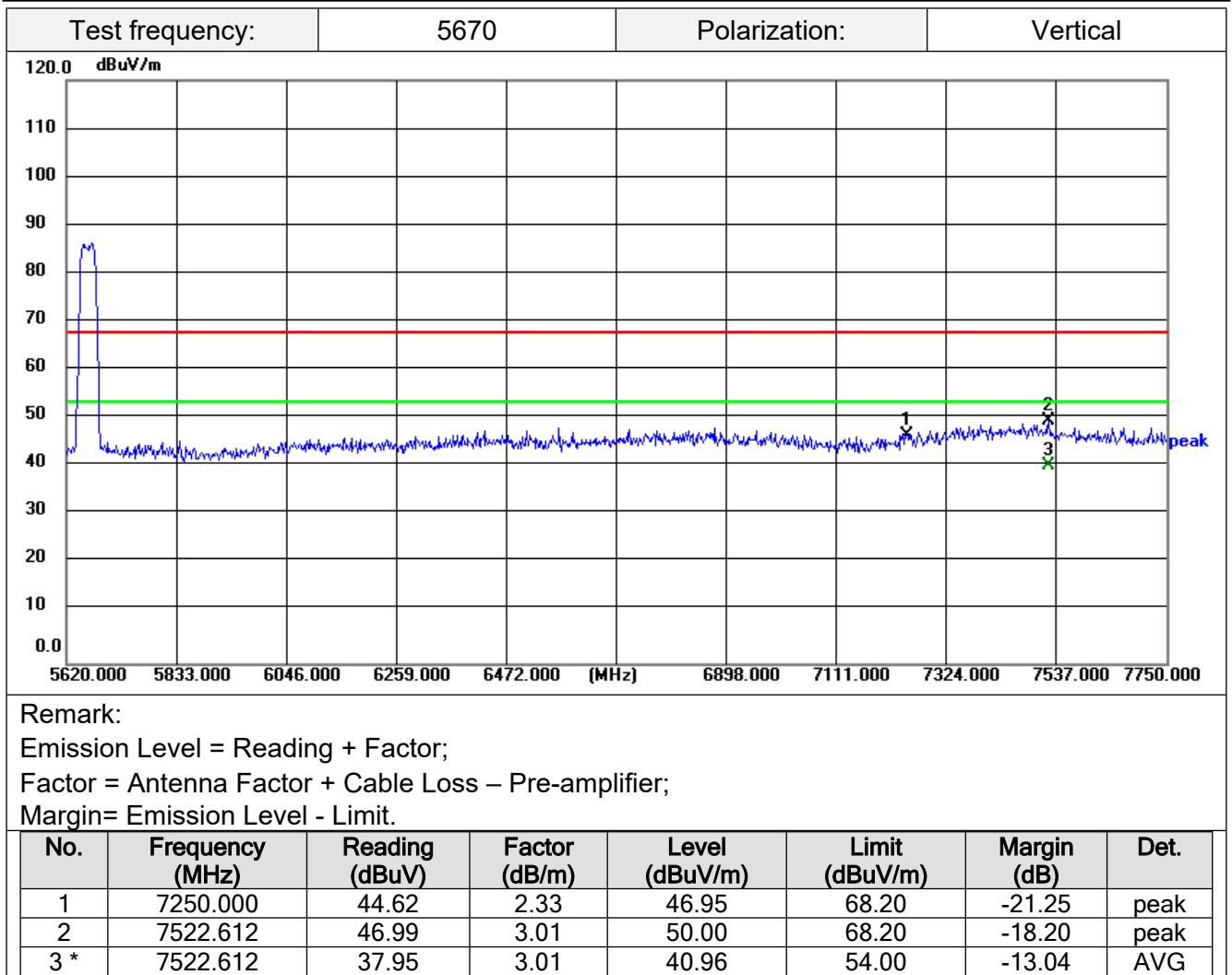


### U-NII 2C @ 802.11n(HT40) MIMO mode

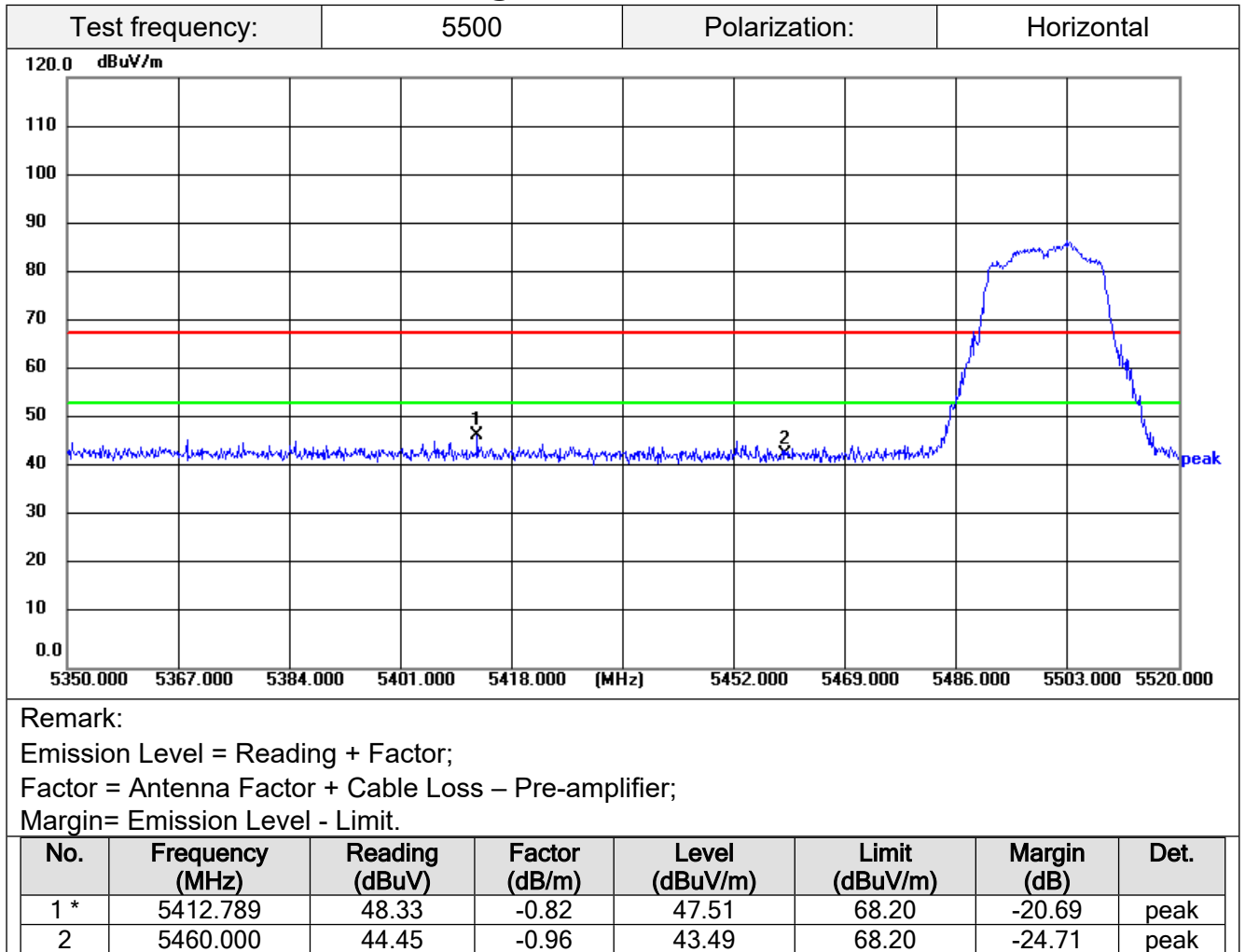


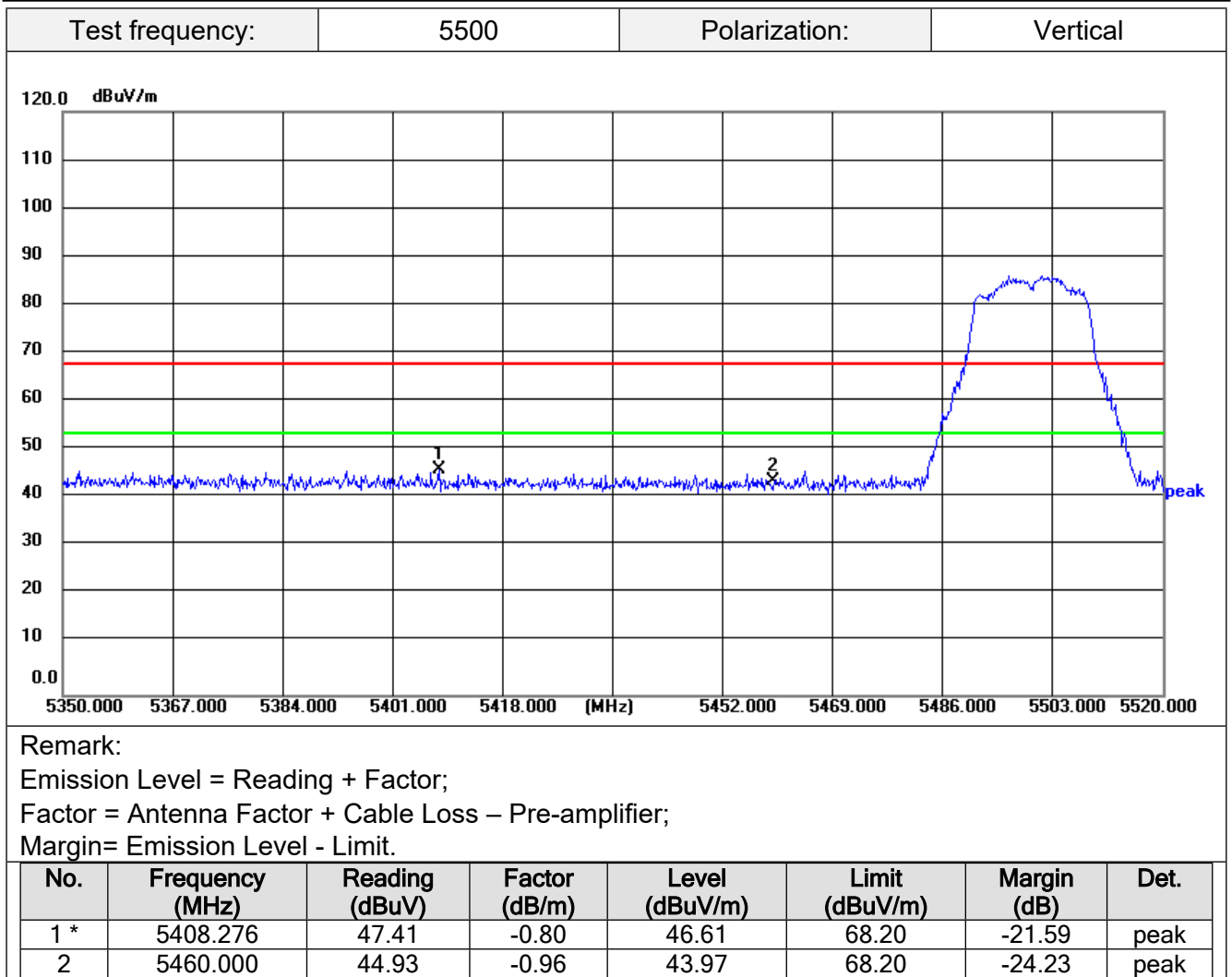


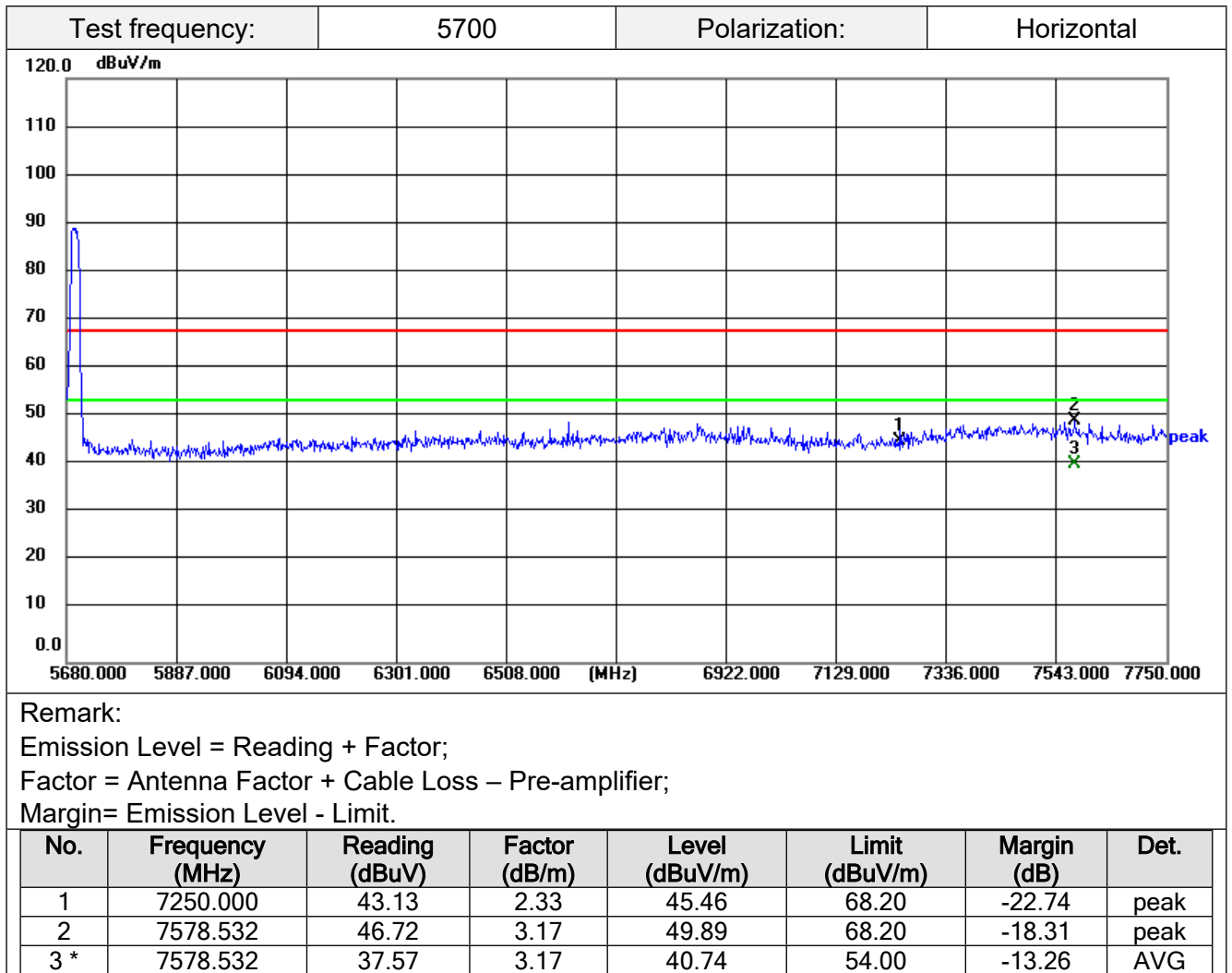


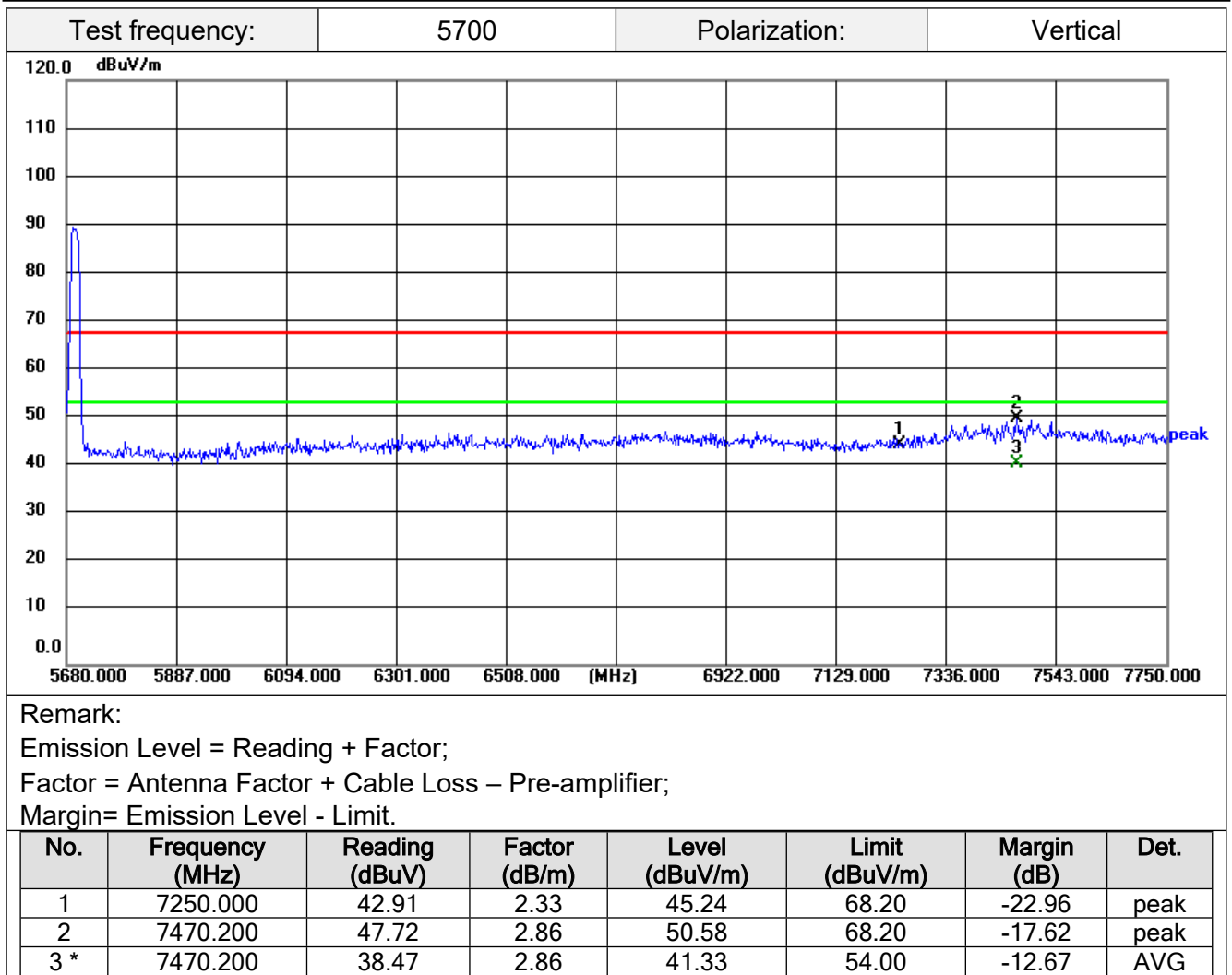


### U-NII 2C @ 802.11ac(VHT20) MIMO mode

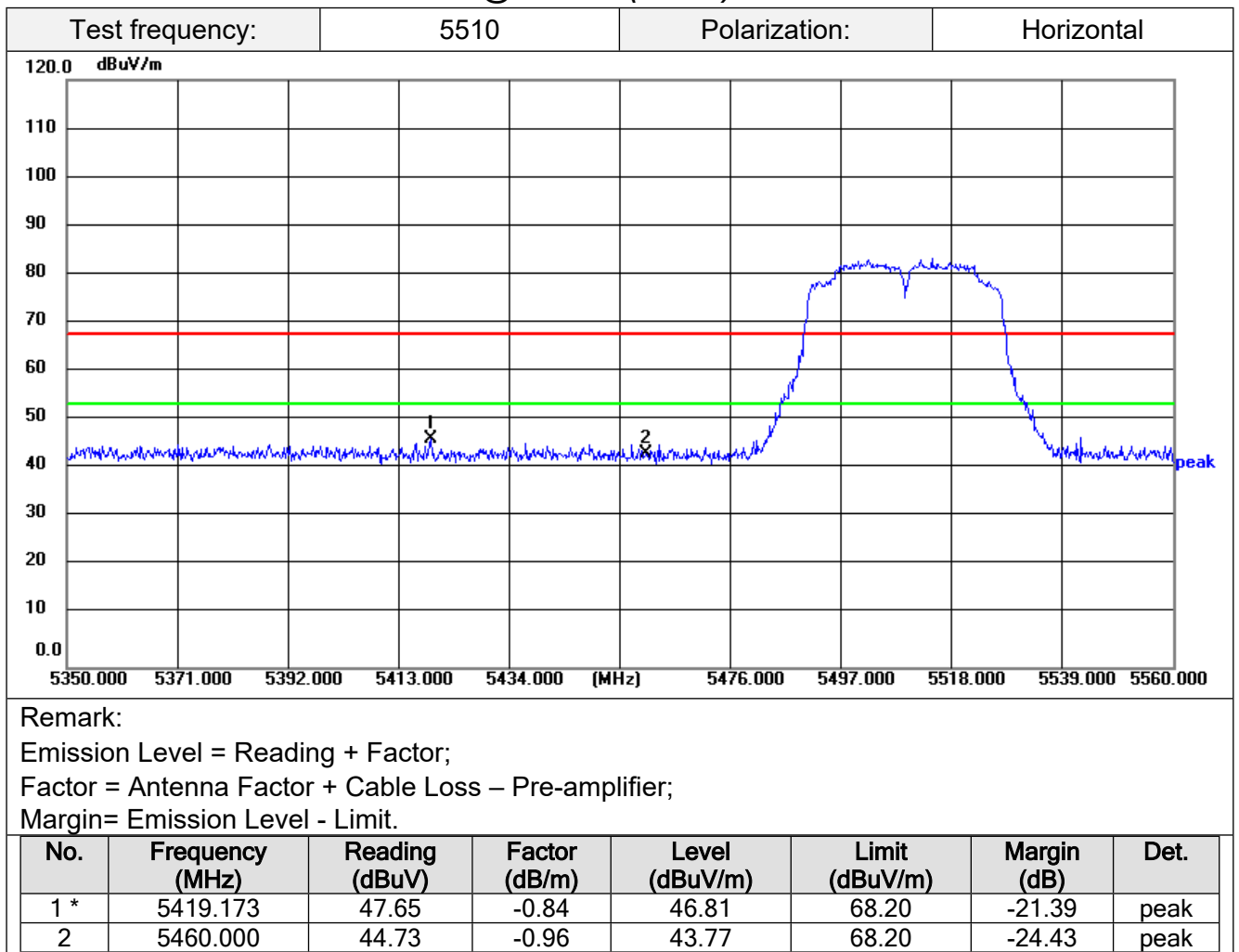


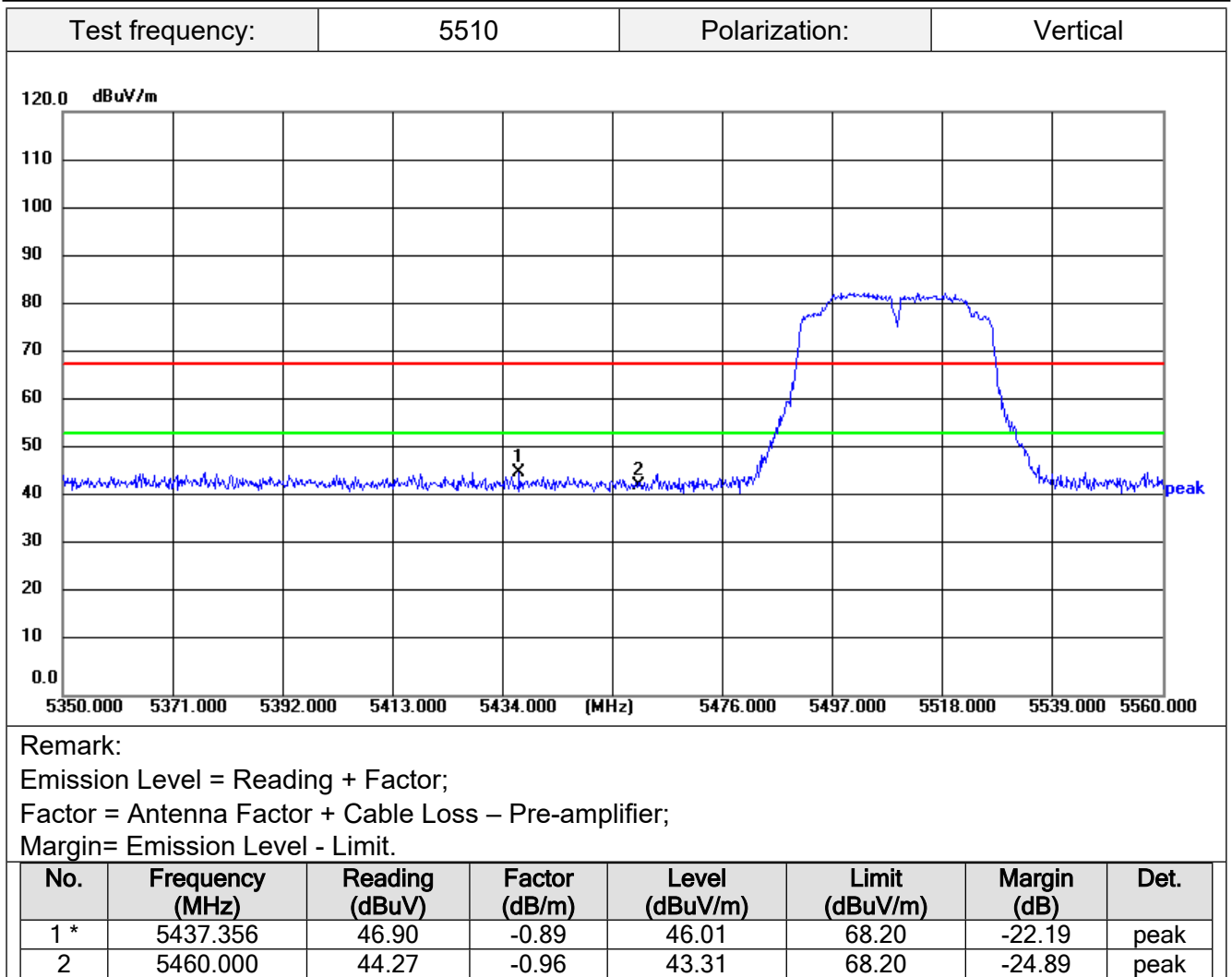


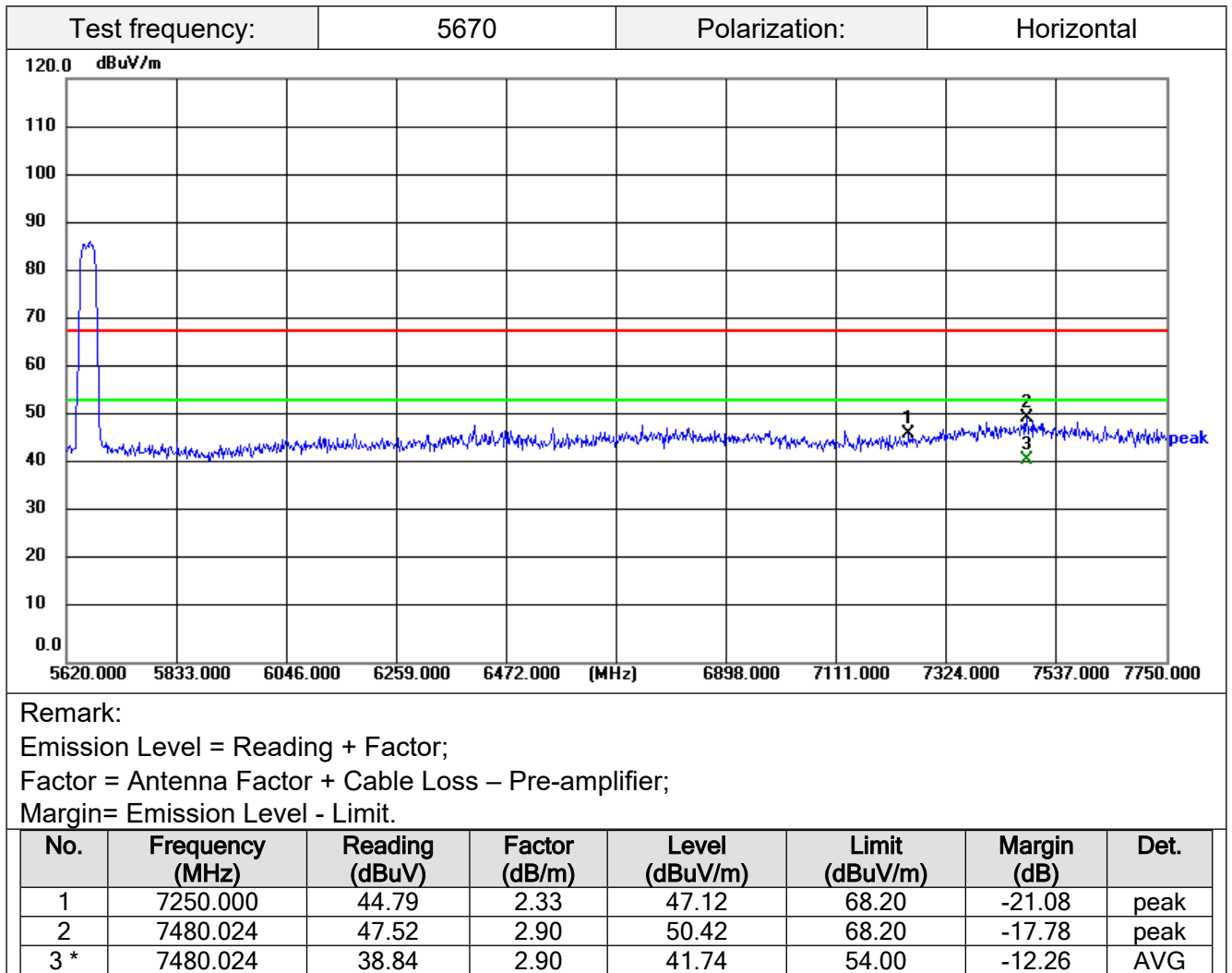


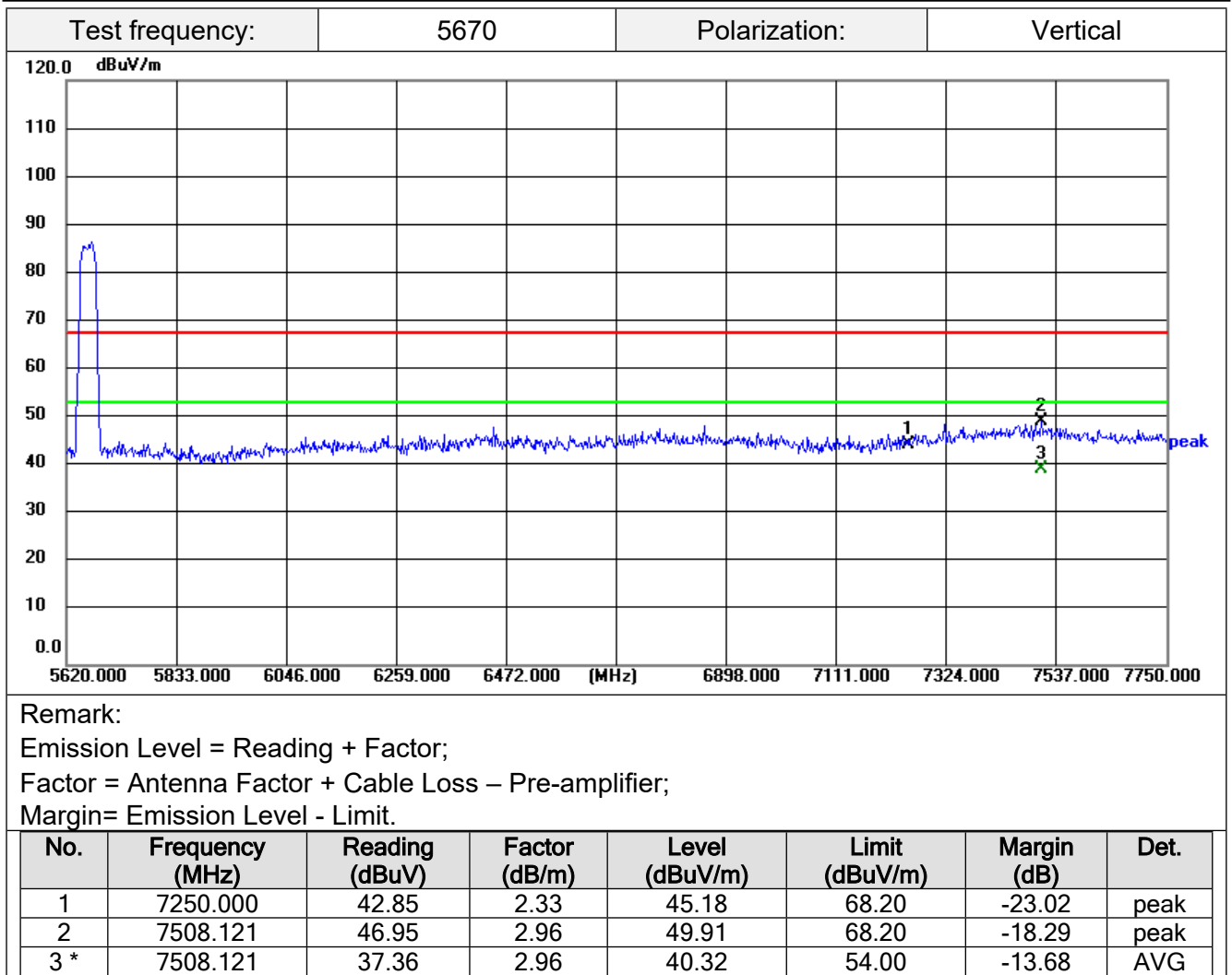


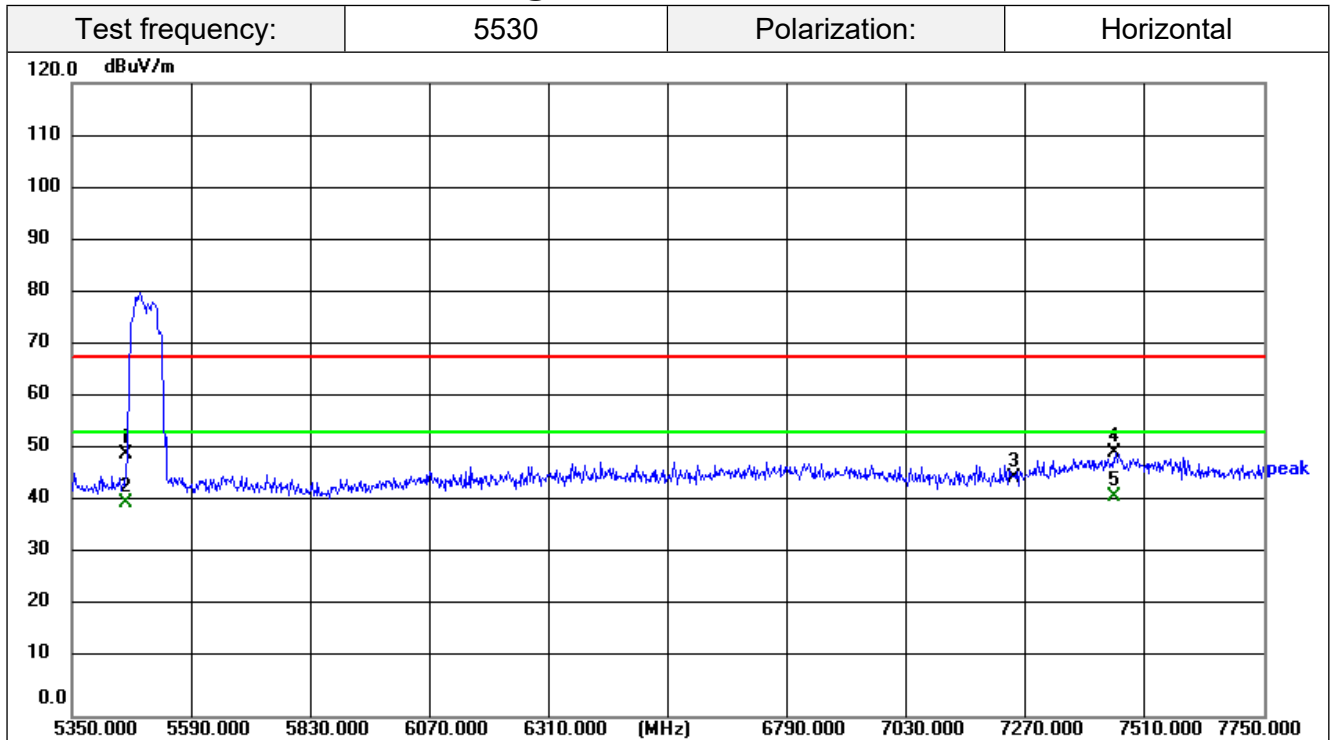
### U-NII 2C @ 802.11ac(VHT40) MIMO mode









**U-NII 2C @ 802.11ac(VHT80) MIMO mode**


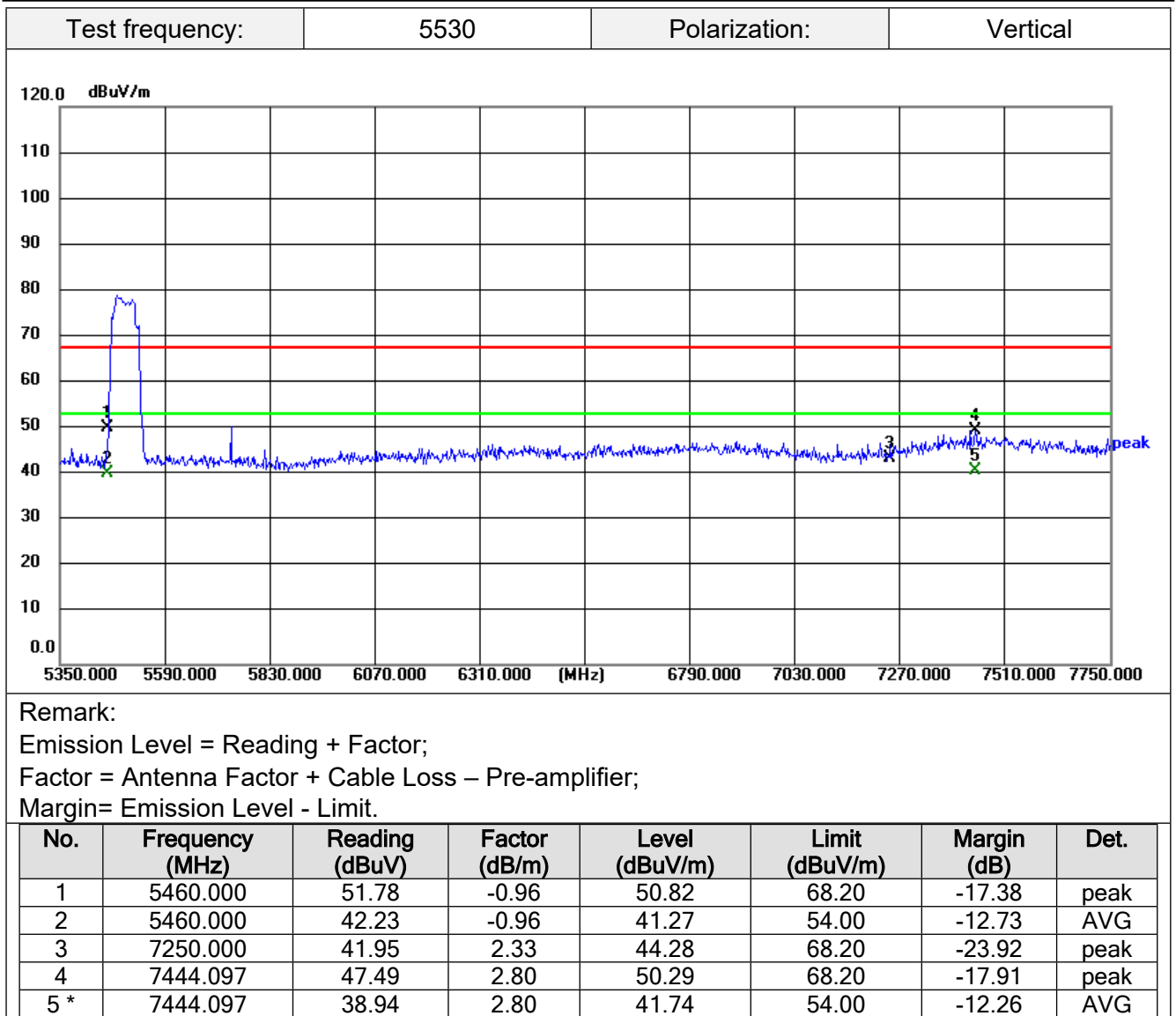
Remark:

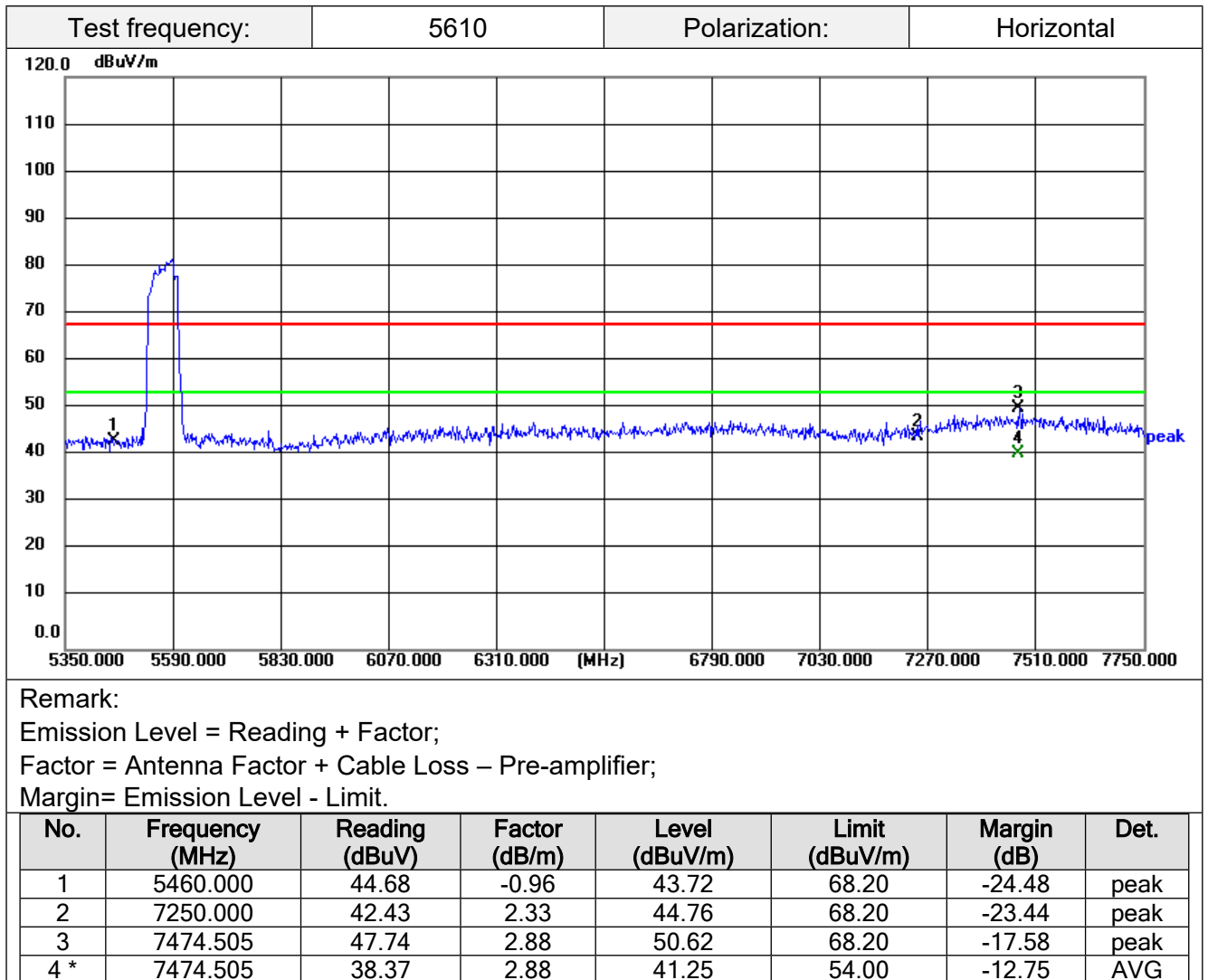
Emission Level = Reading + Factor;

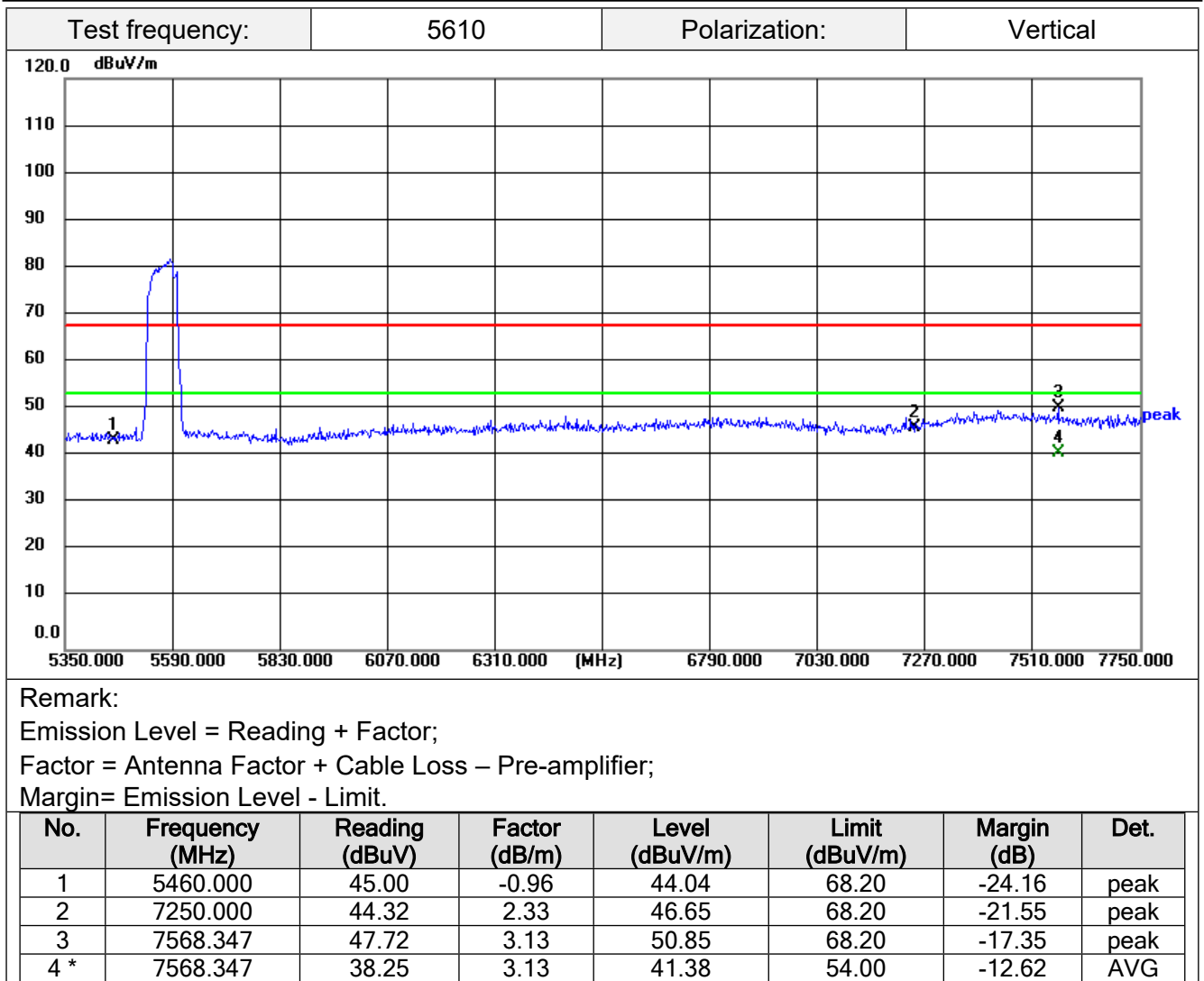
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

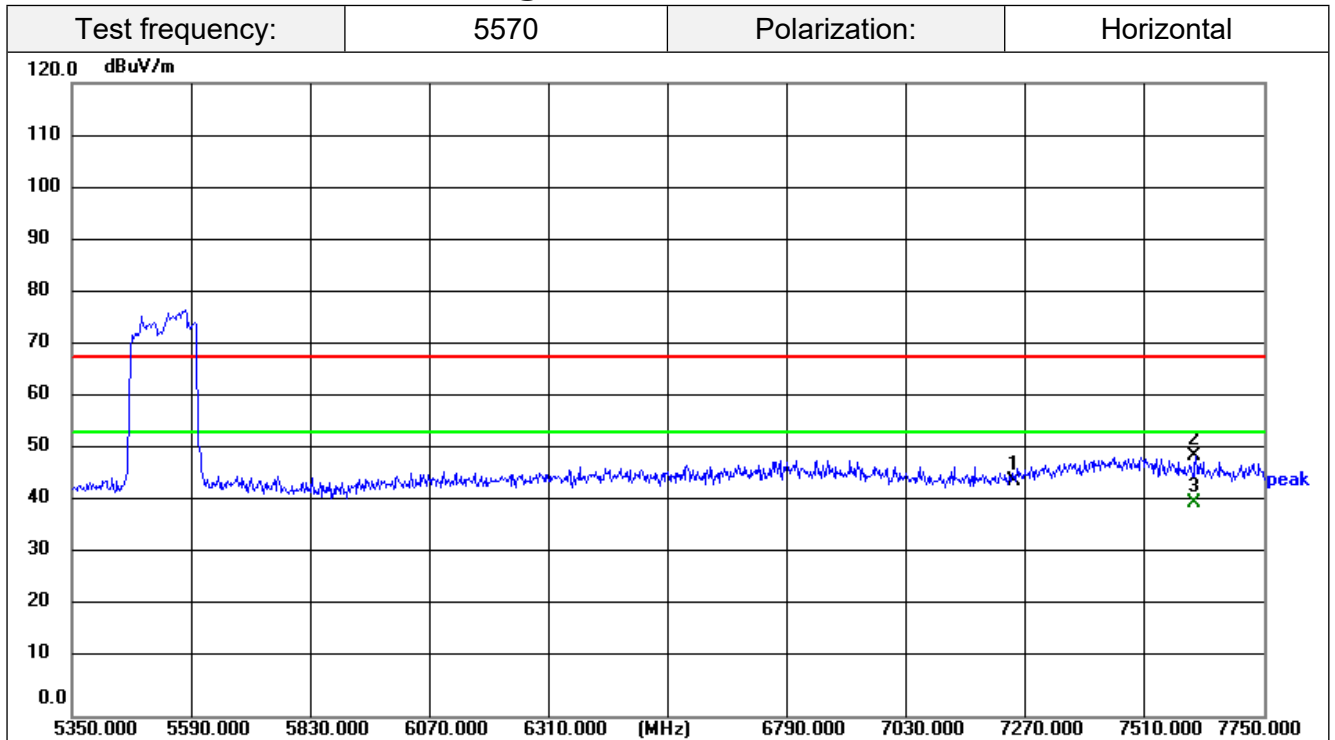
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5460.000        | 50.65          | -0.96         | 49.69          | 68.20          | -18.51      | peak |
| 2   | 5460.000        | 41.62          | -0.96         | 40.66          | 54.00          | -13.34      | AVG  |
| 3   | 7250.000        | 43.07          | 2.33          | 45.40          | 68.20          | -22.80      | peak |
| 4   | 7454.219        | 47.24          | 2.82          | 50.06          | 68.20          | -18.14      | peak |
| 5 * | 7454.219        | 38.80          | 2.82          | 41.62          | 54.00          | -12.38      | AVG  |







### U-NII 2C @ 802.11ac(VHT160) MIMO mode



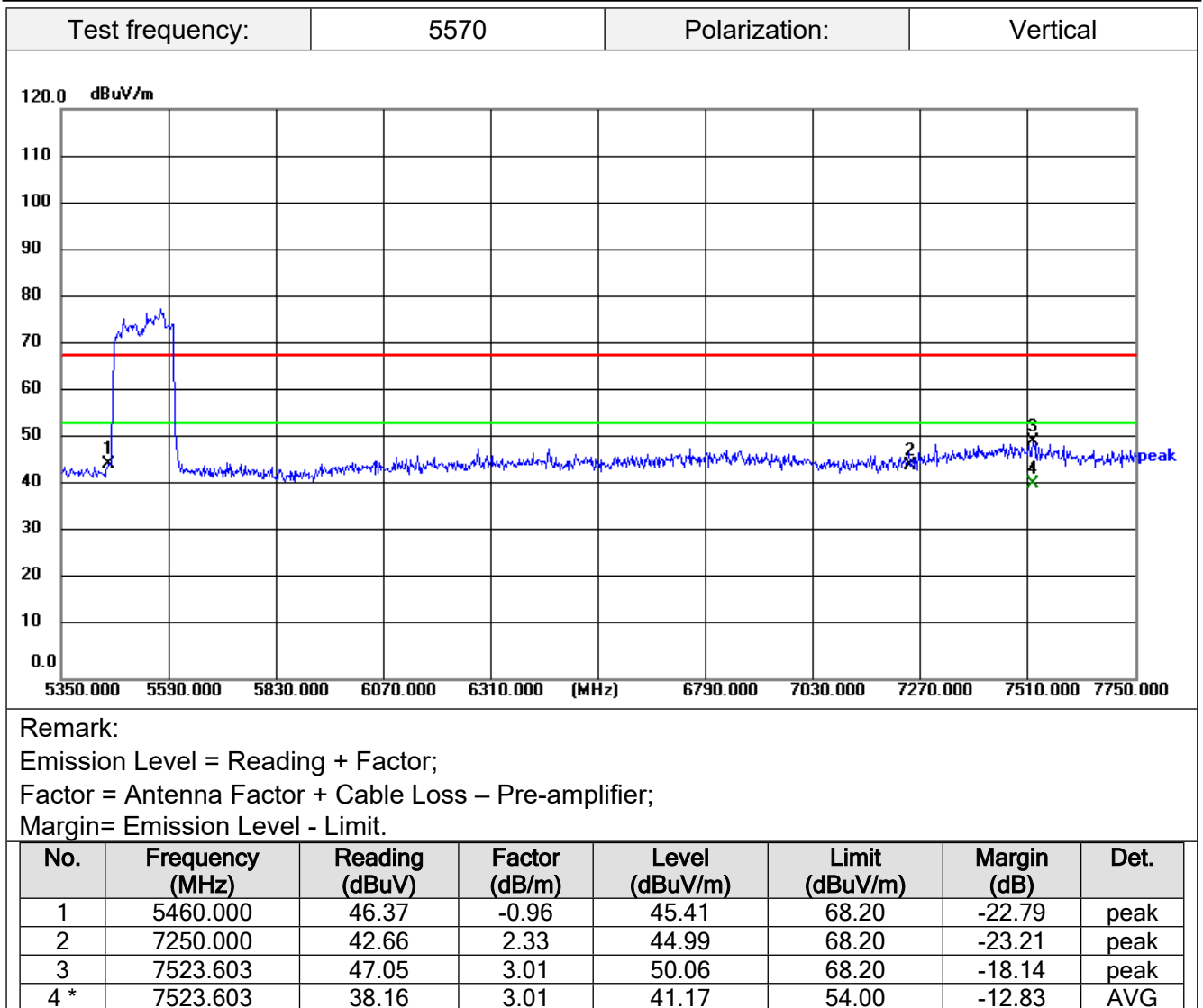
Remark:

Emission Level = Reading + Factor;

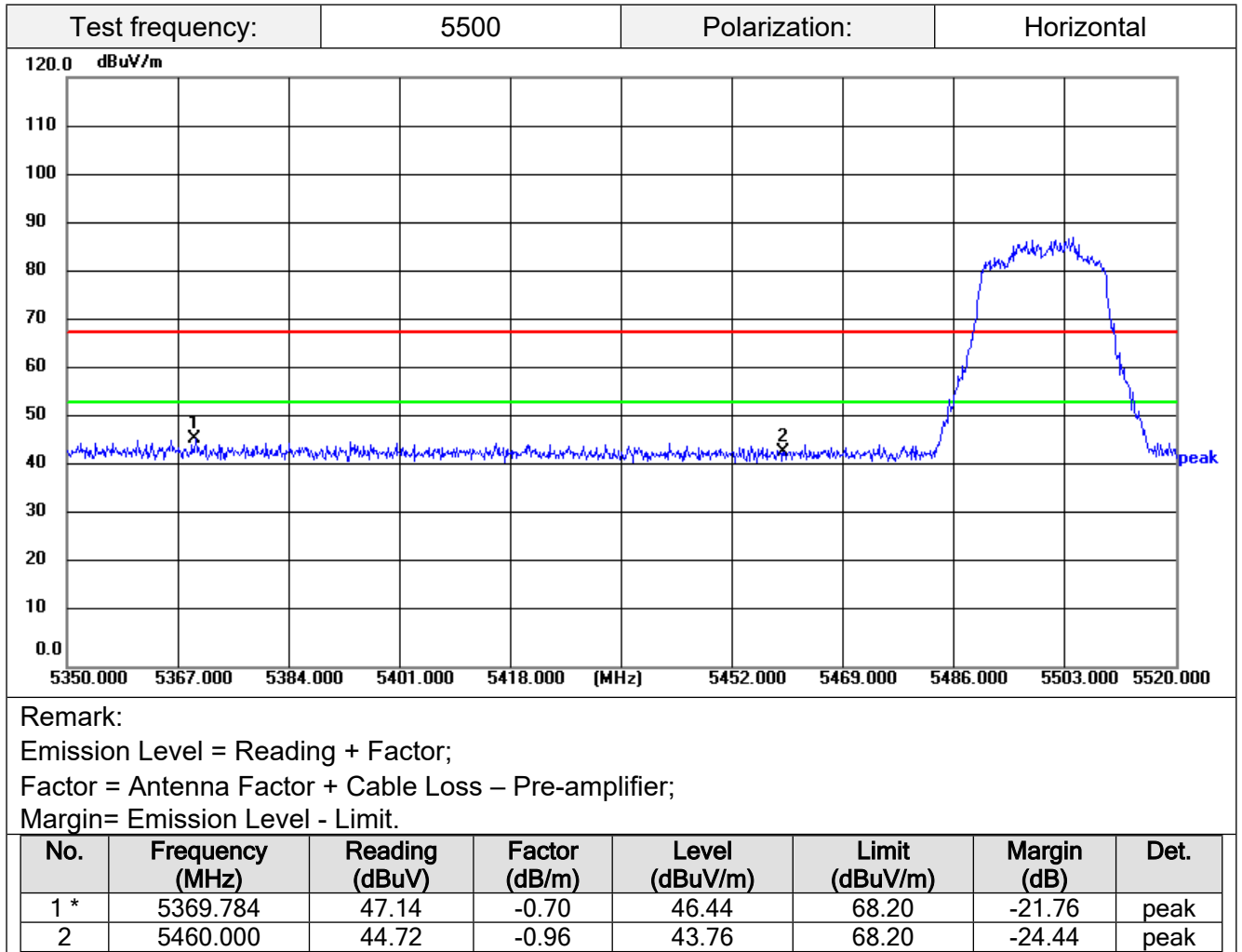
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

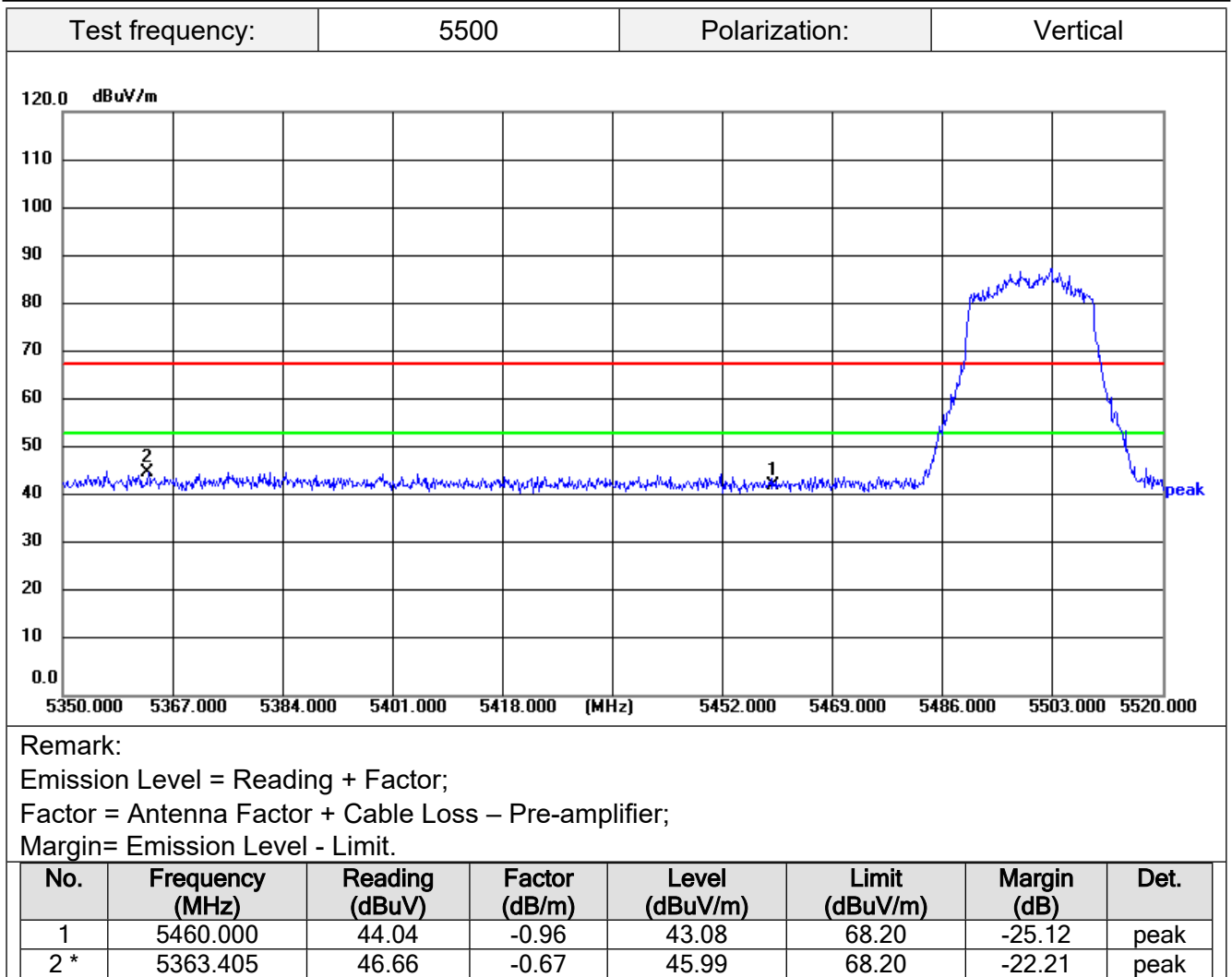
Margin= Emission Level - Limit.

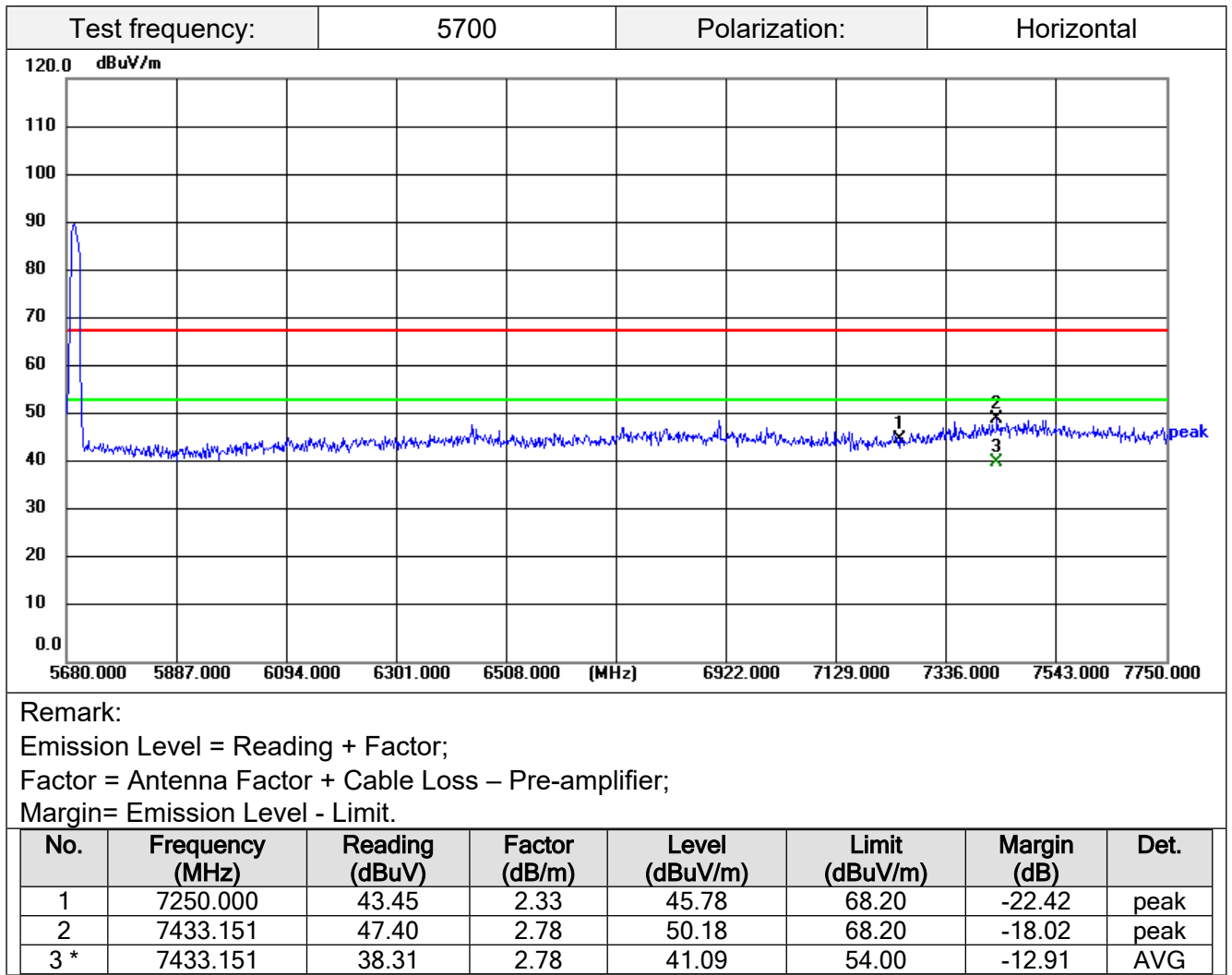
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 7250.000        | 42.37          | 2.33          | 44.70          | 68.20          | -23.50      | peak |
| 2   | 7614.297        | 46.09          | 3.26          | 49.35          | 68.20          | -18.85      | peak |
| 3 * | 7614.297        | 37.21          | 3.26          | 40.47          | 54.00          | -13.53      | AVG  |

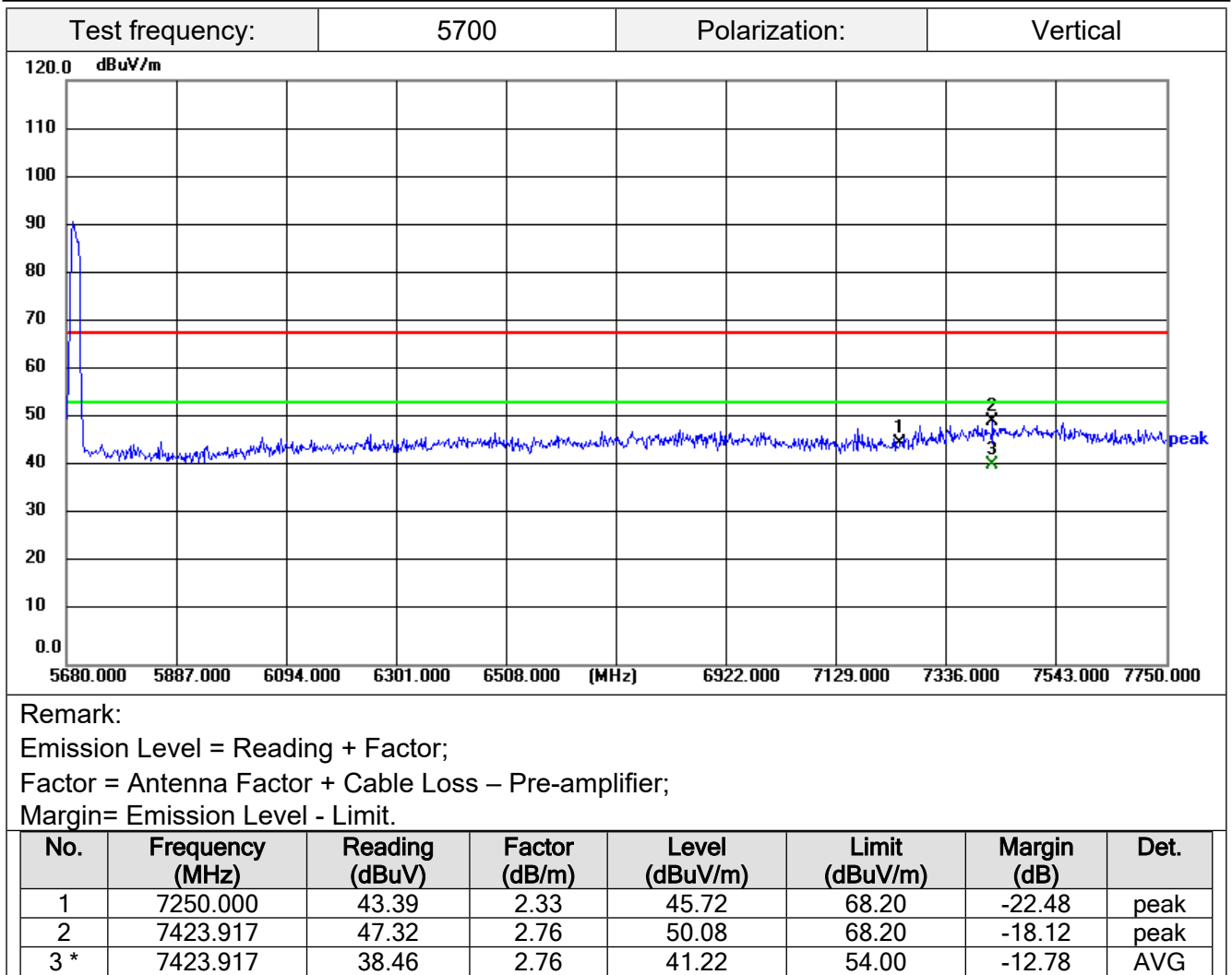


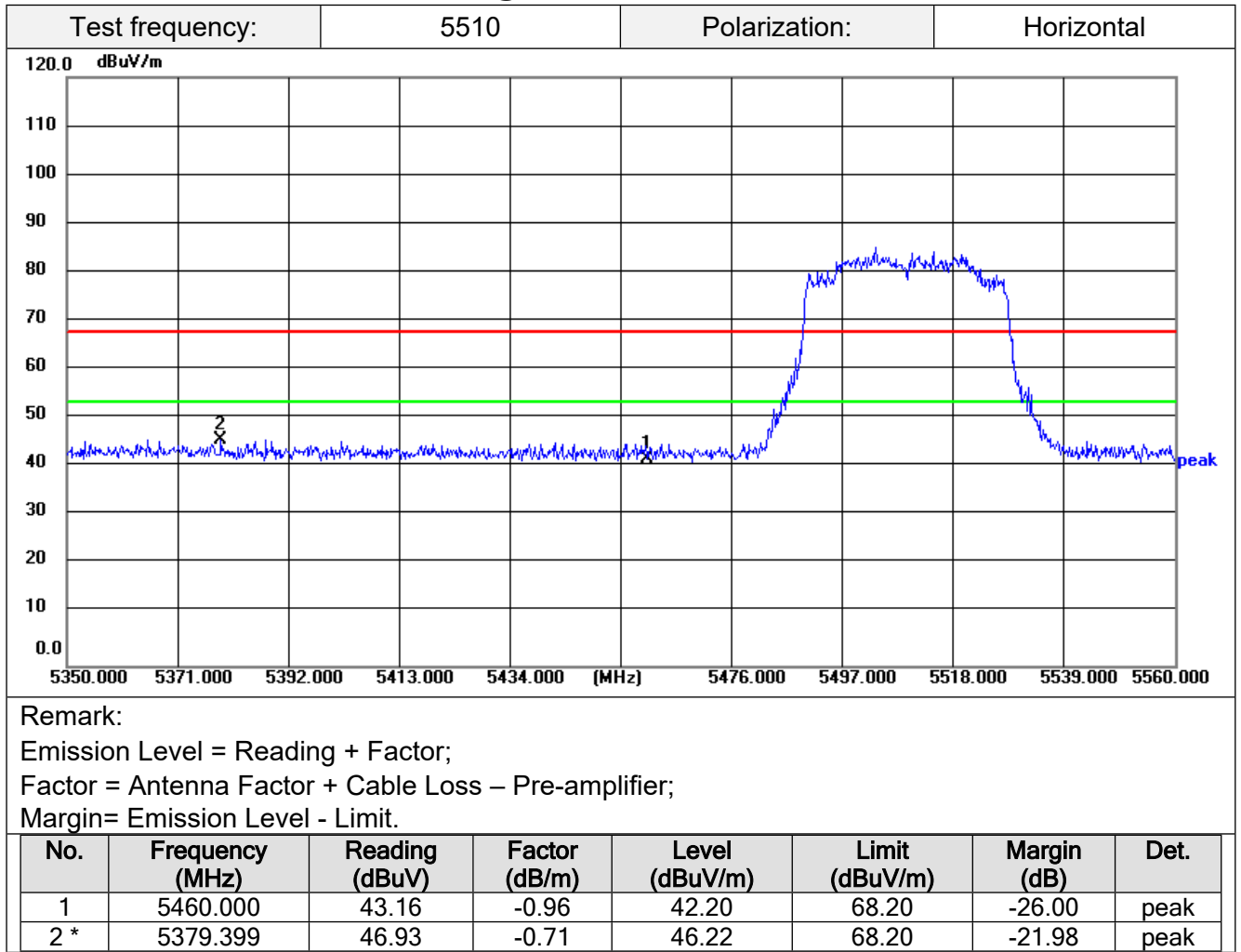
### U-NII 2C @ 802.11ax(HE20) MIMO mode

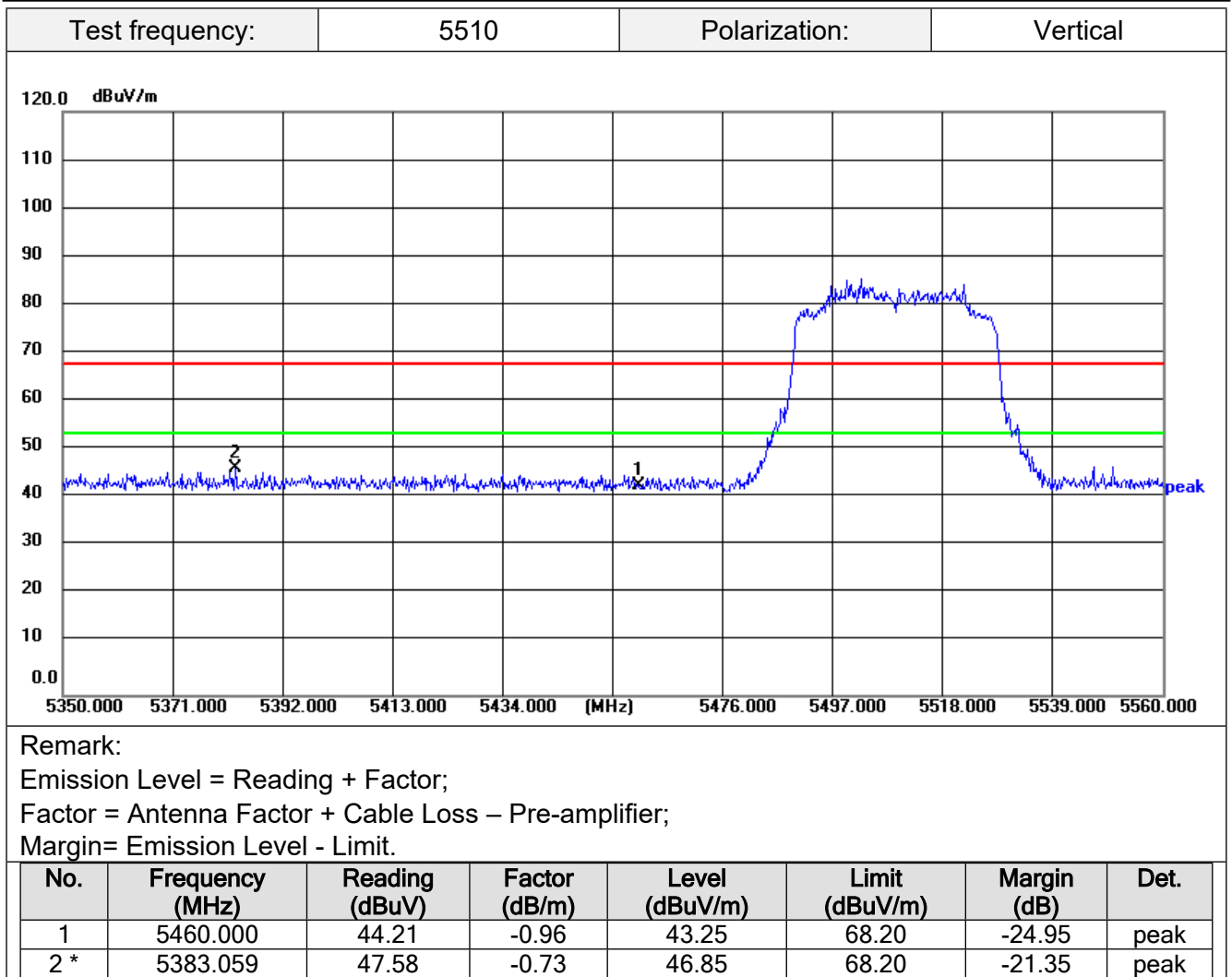


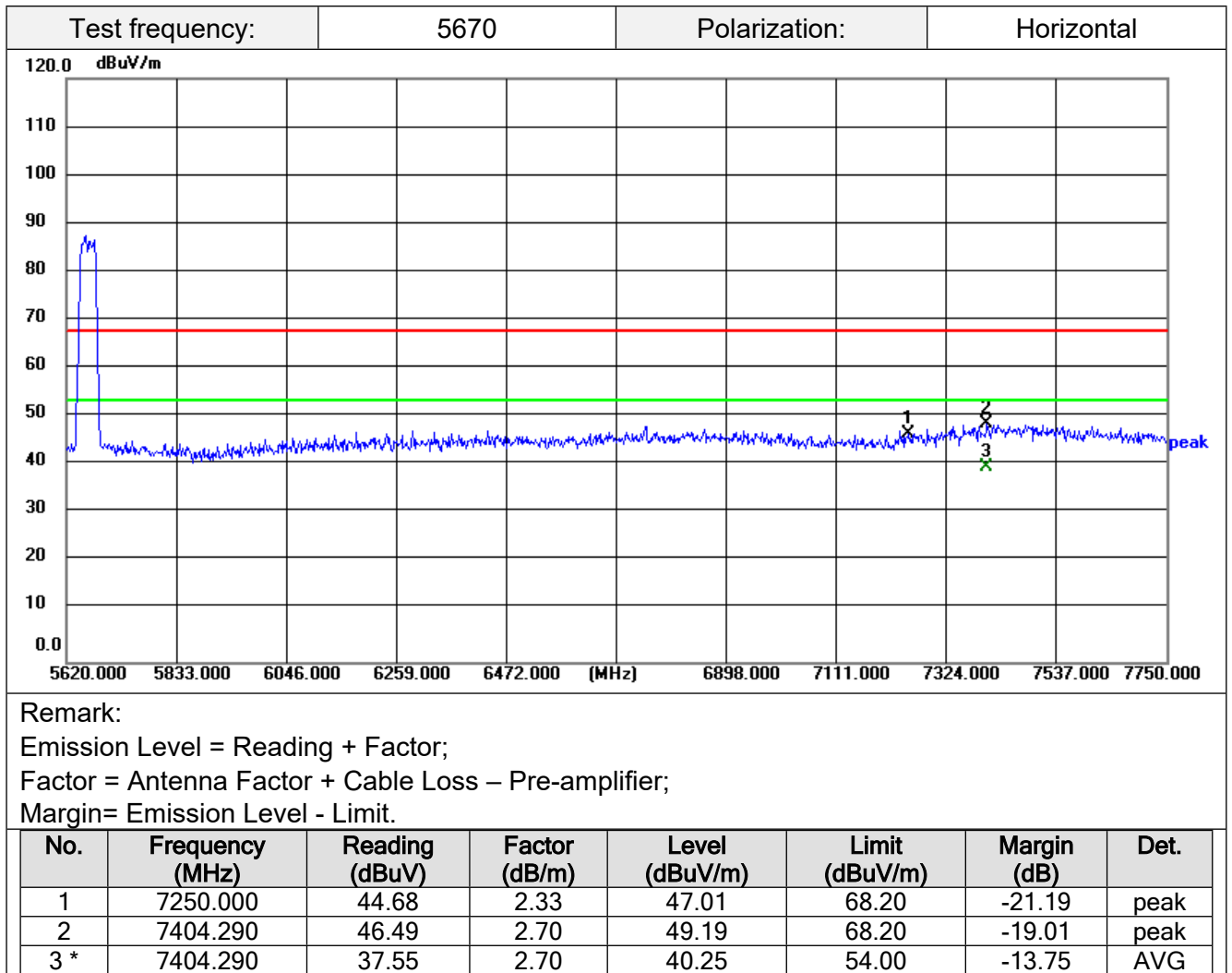


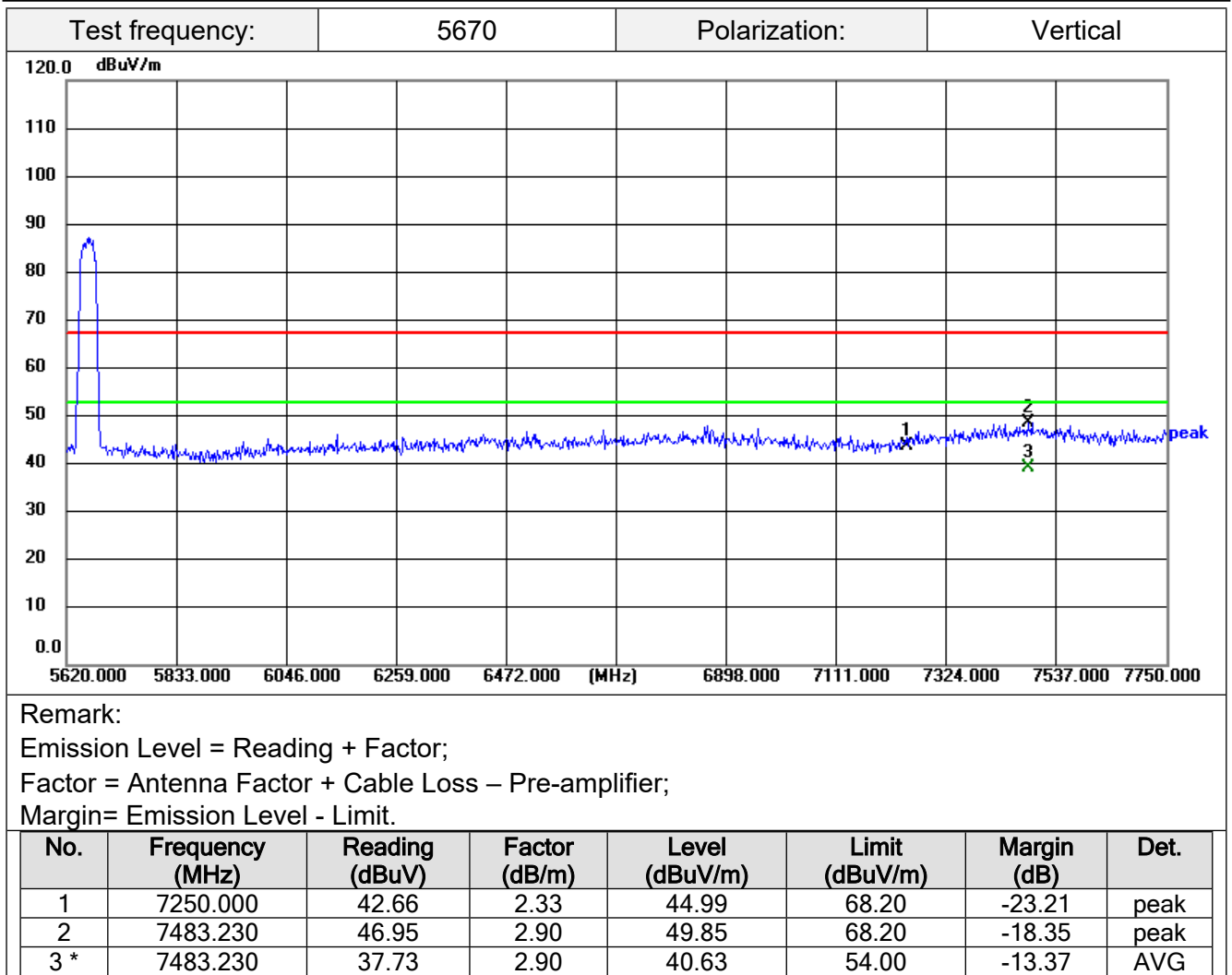


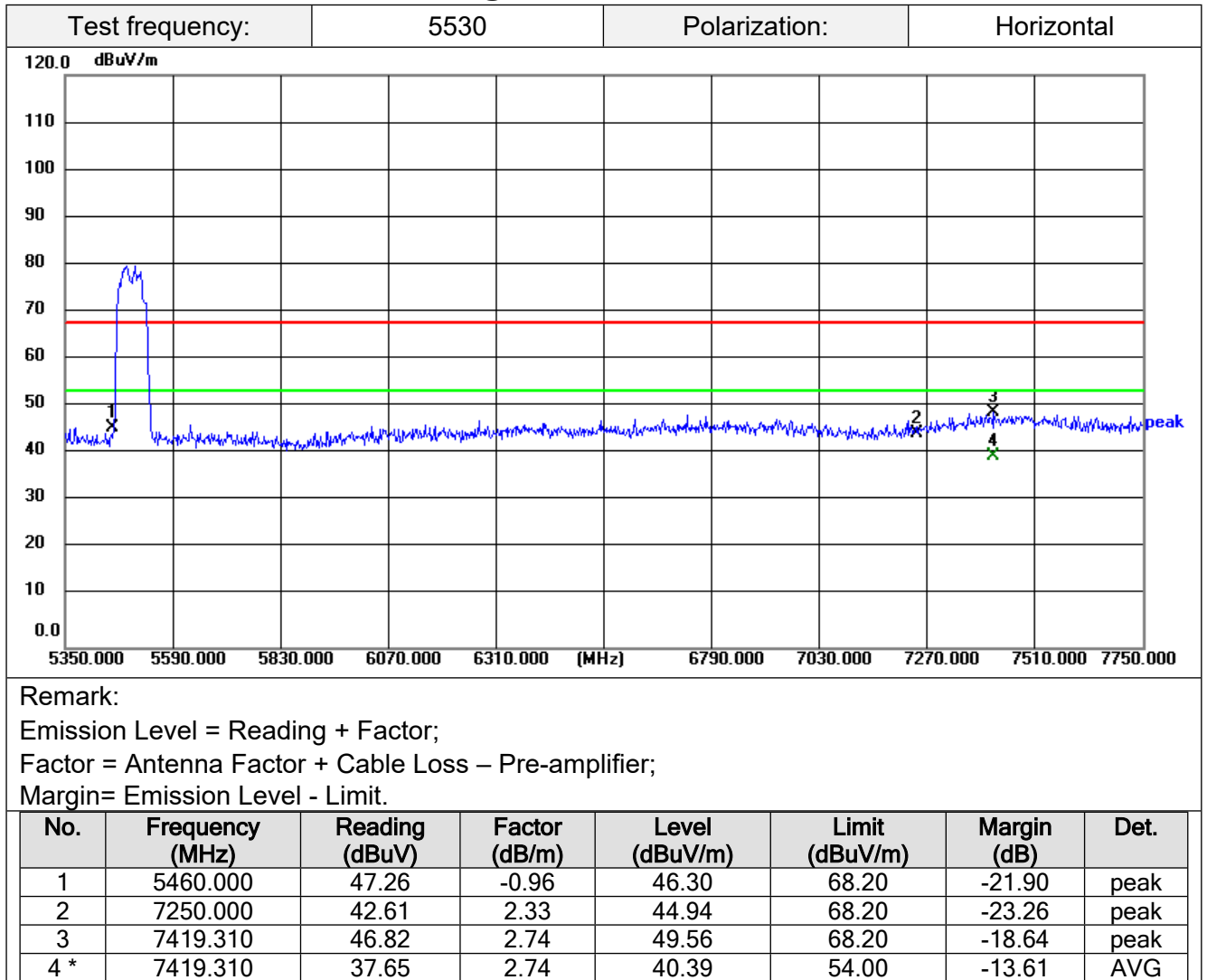


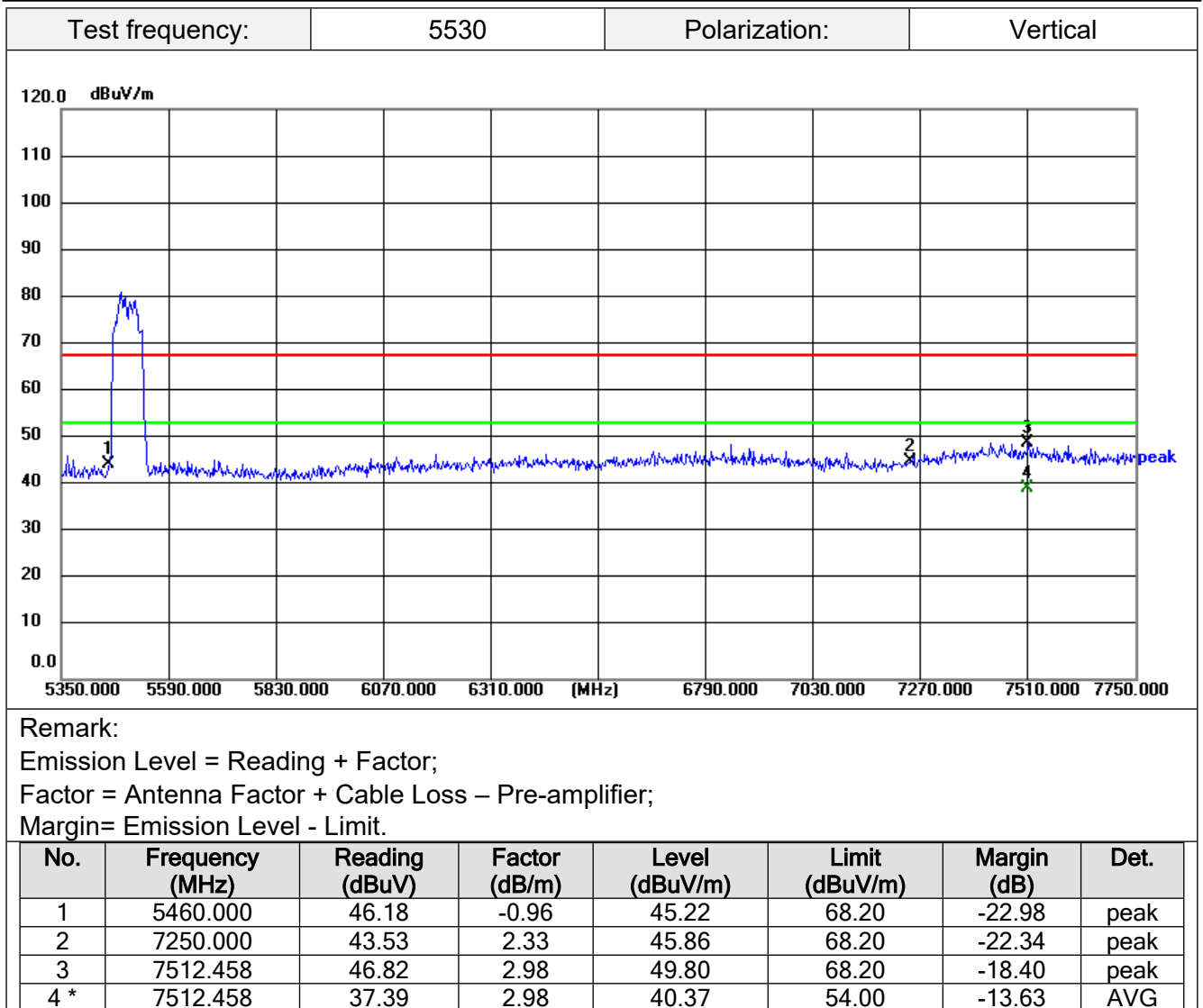
**U-NII 2C @ 802.11ax(HE40) MIMO mode**


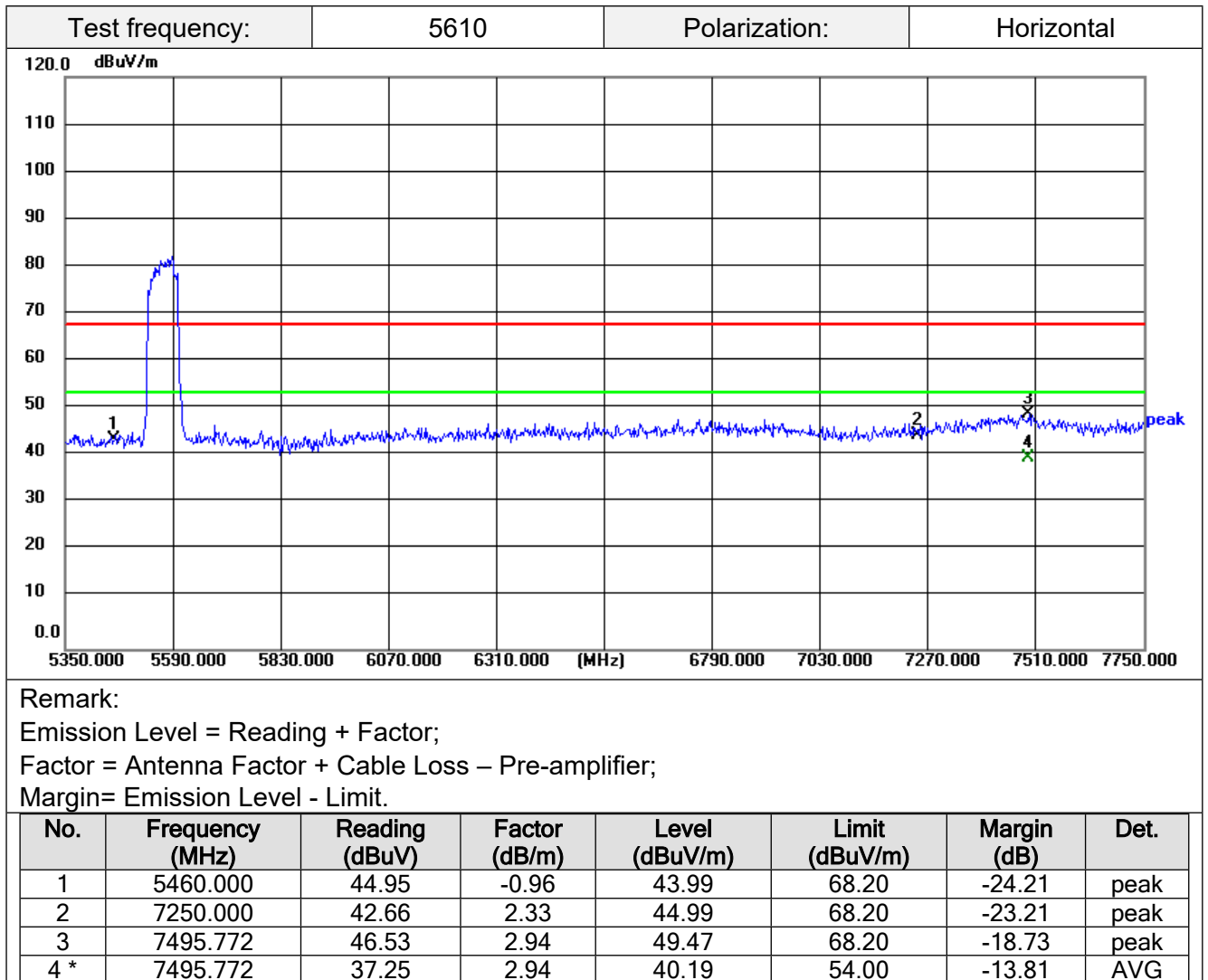


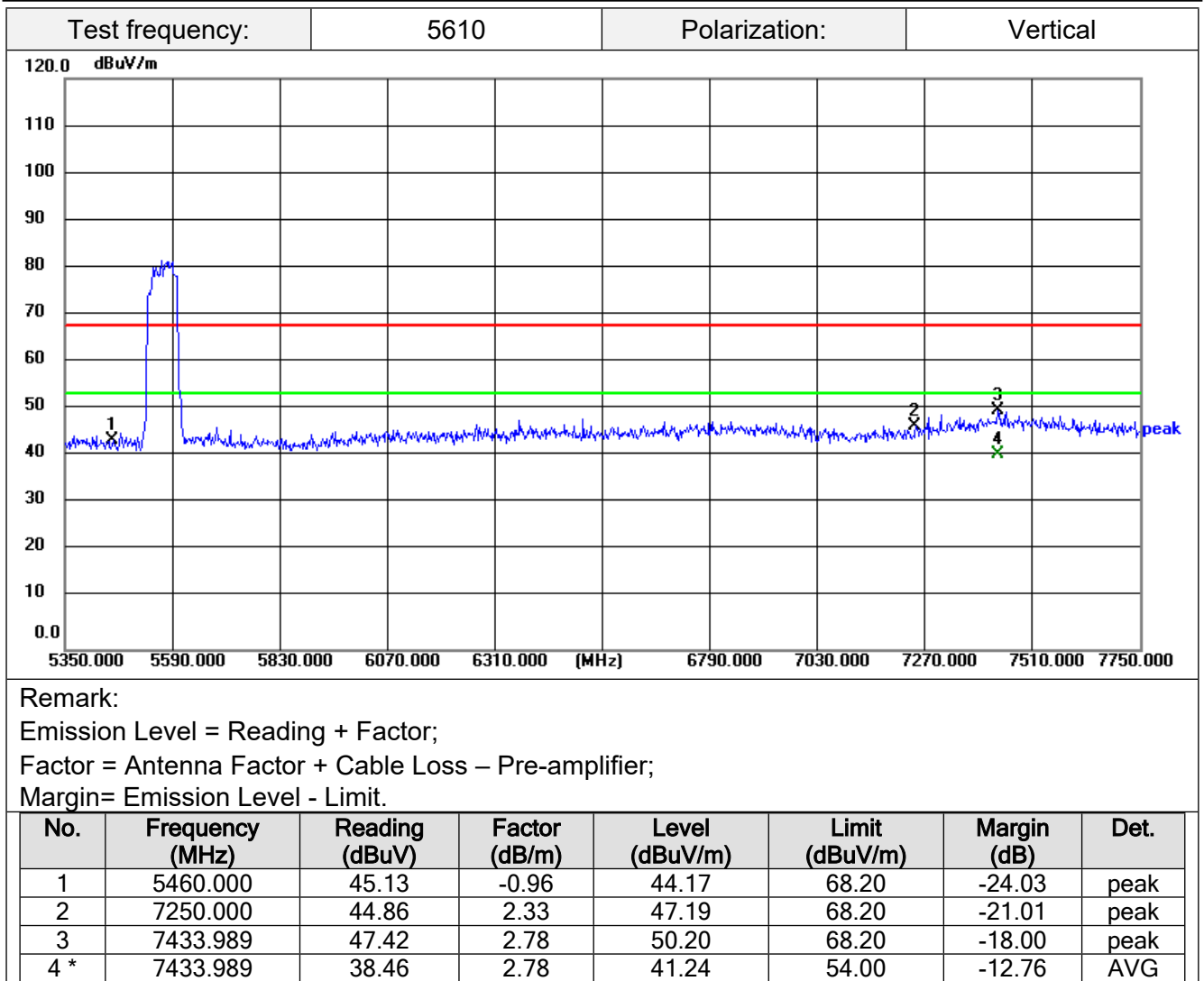




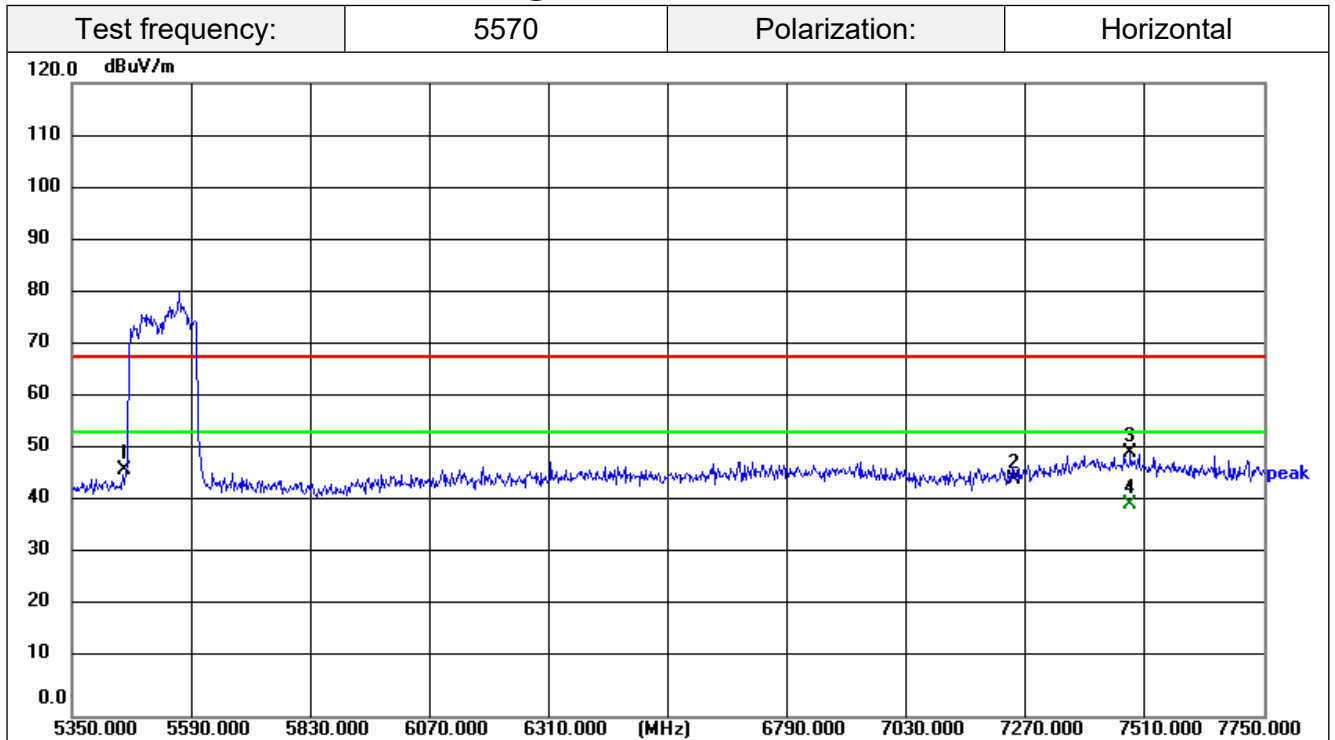
**U-NII 2C @ 802.11ax(HE80) MIMO mode**








### U-NII 2C @ 802.11ax(HE160) MIMO mode



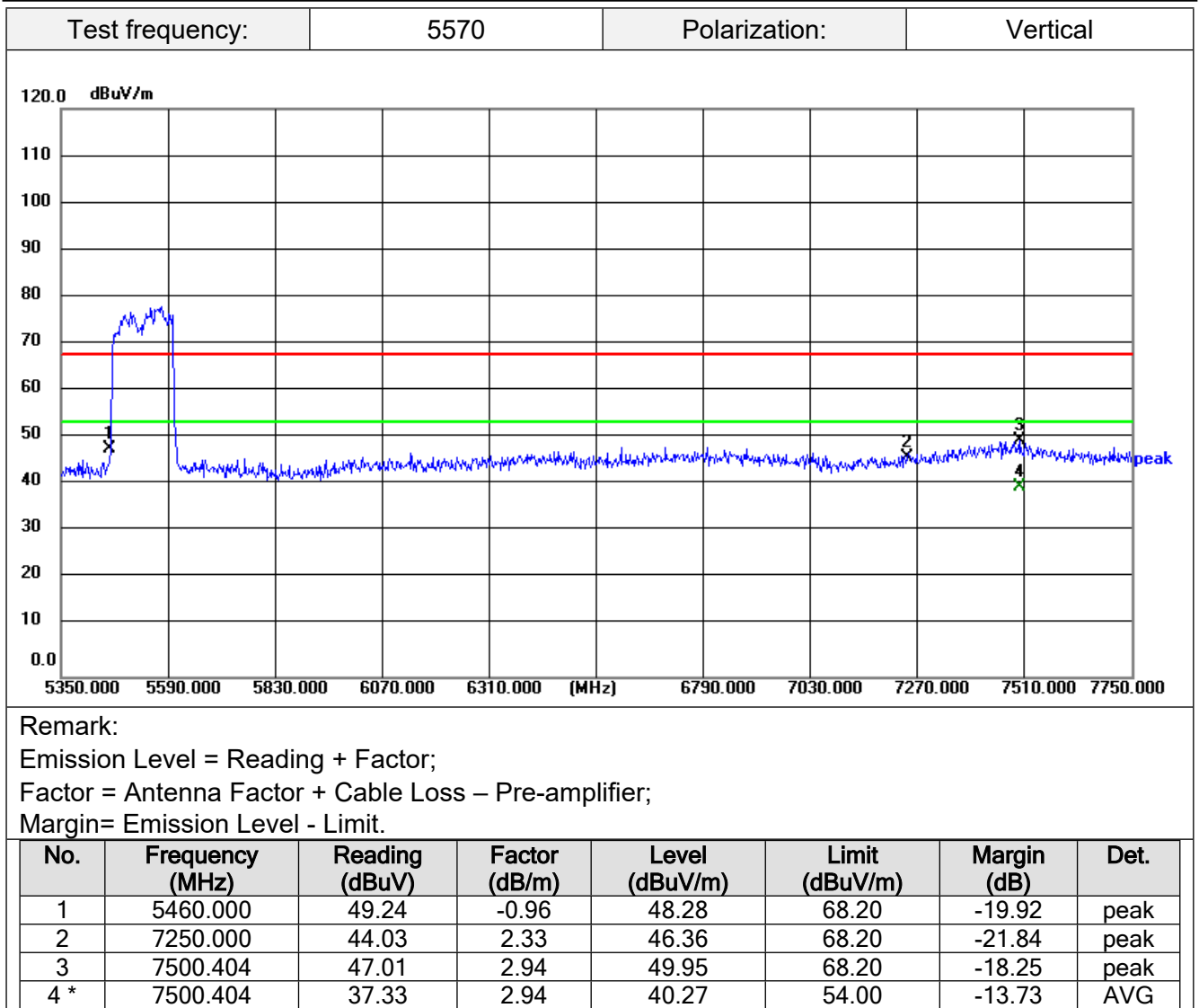
Remark:

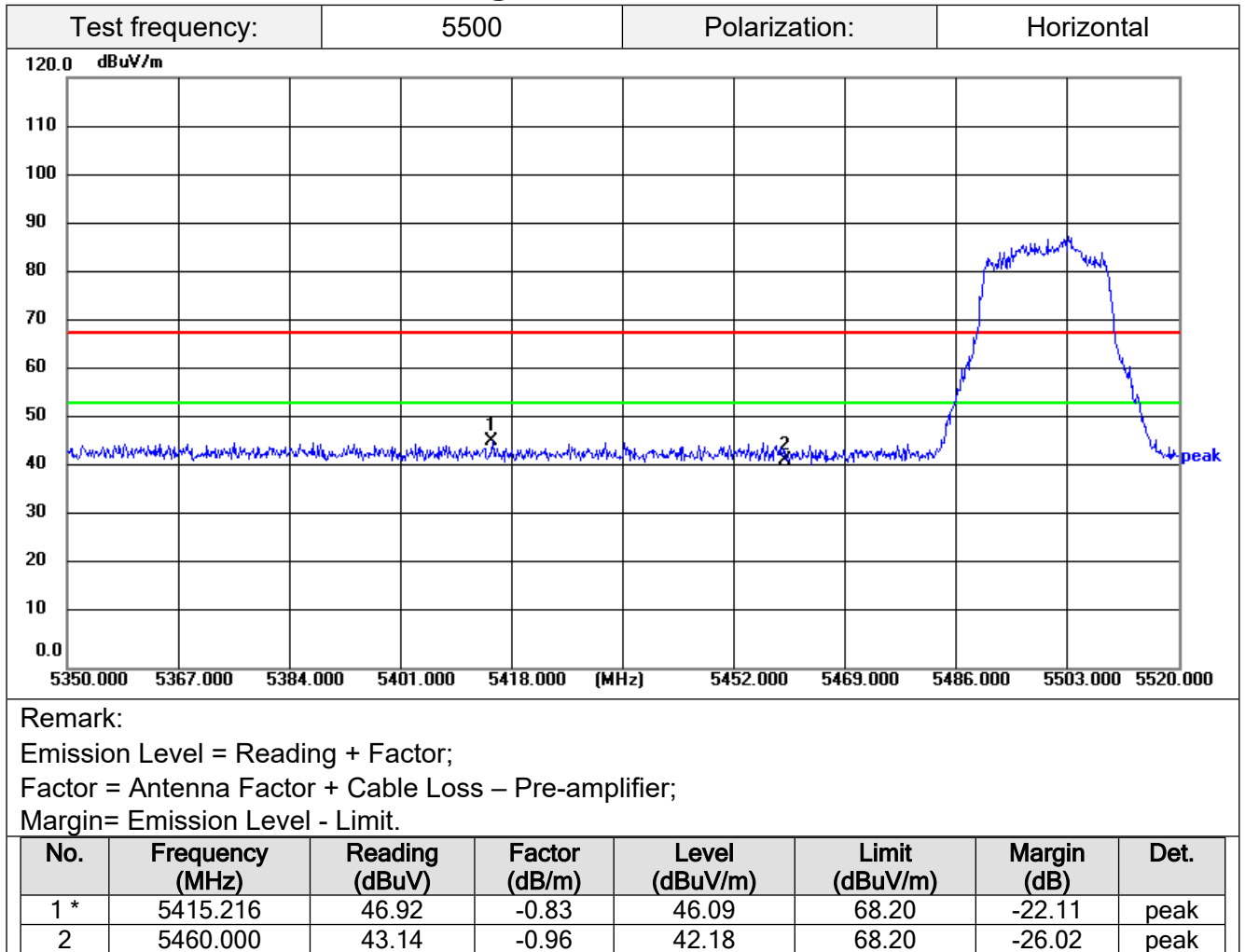
Emission Level = Reading + Factor;

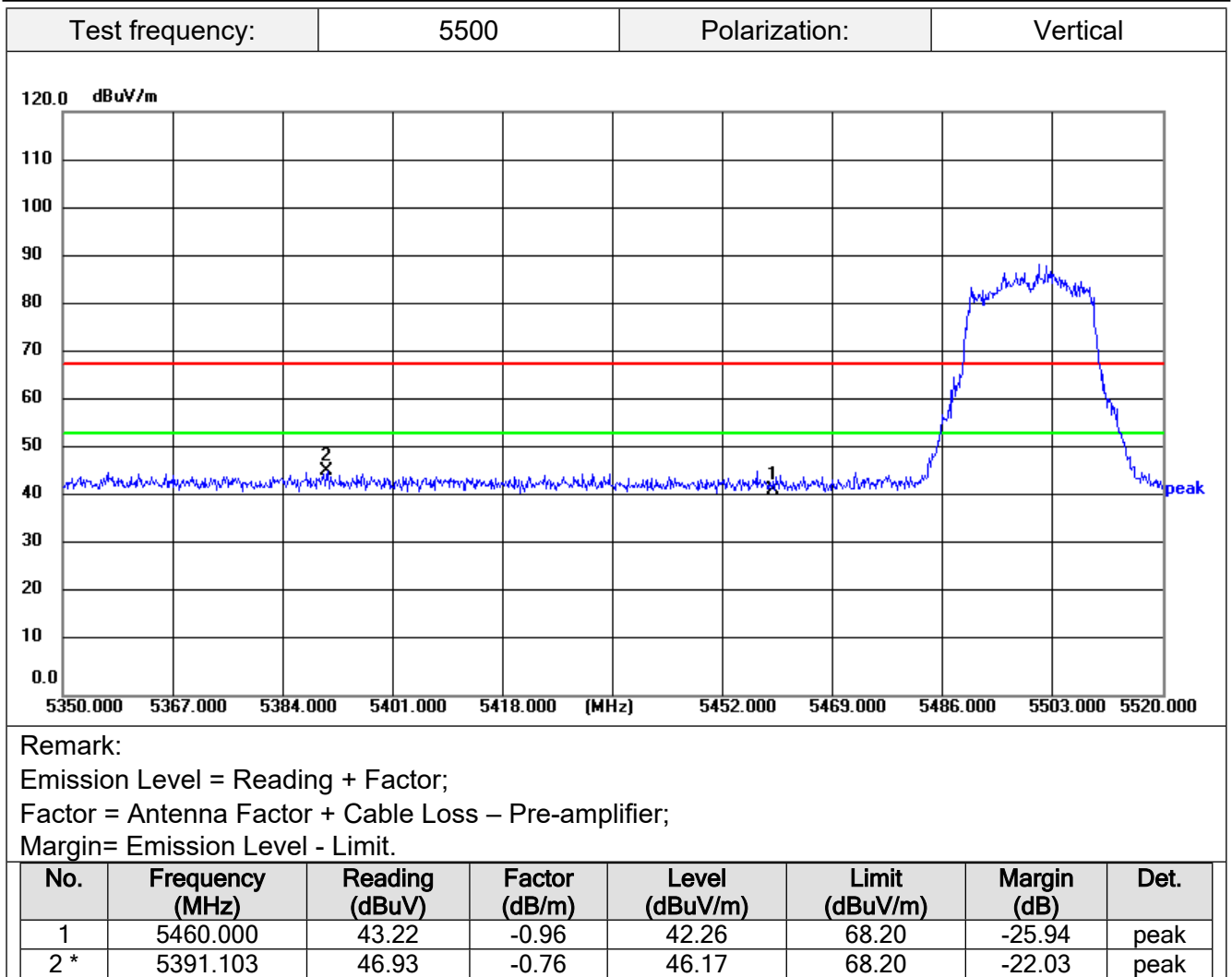
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

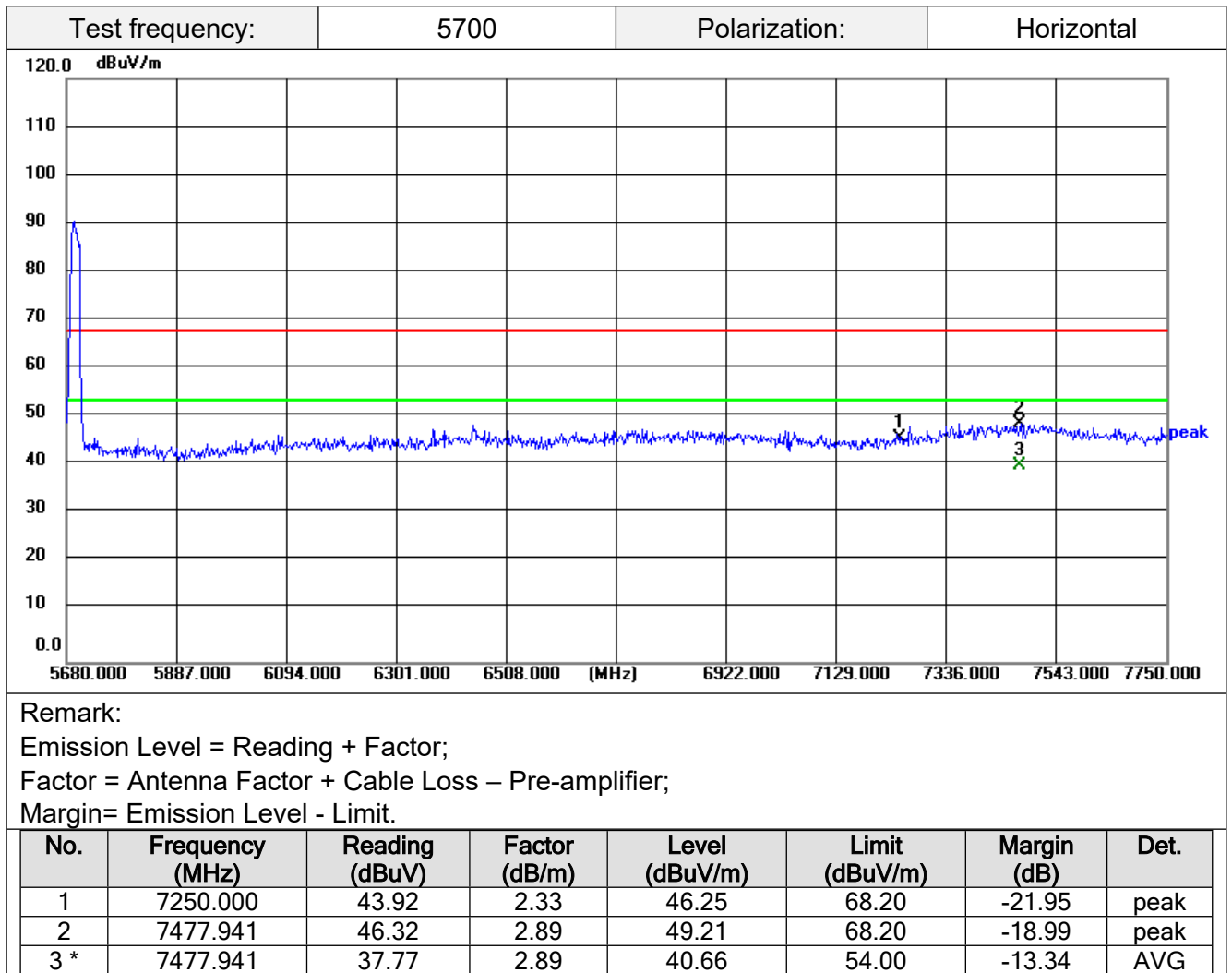
Margin= Emission Level - Limit.

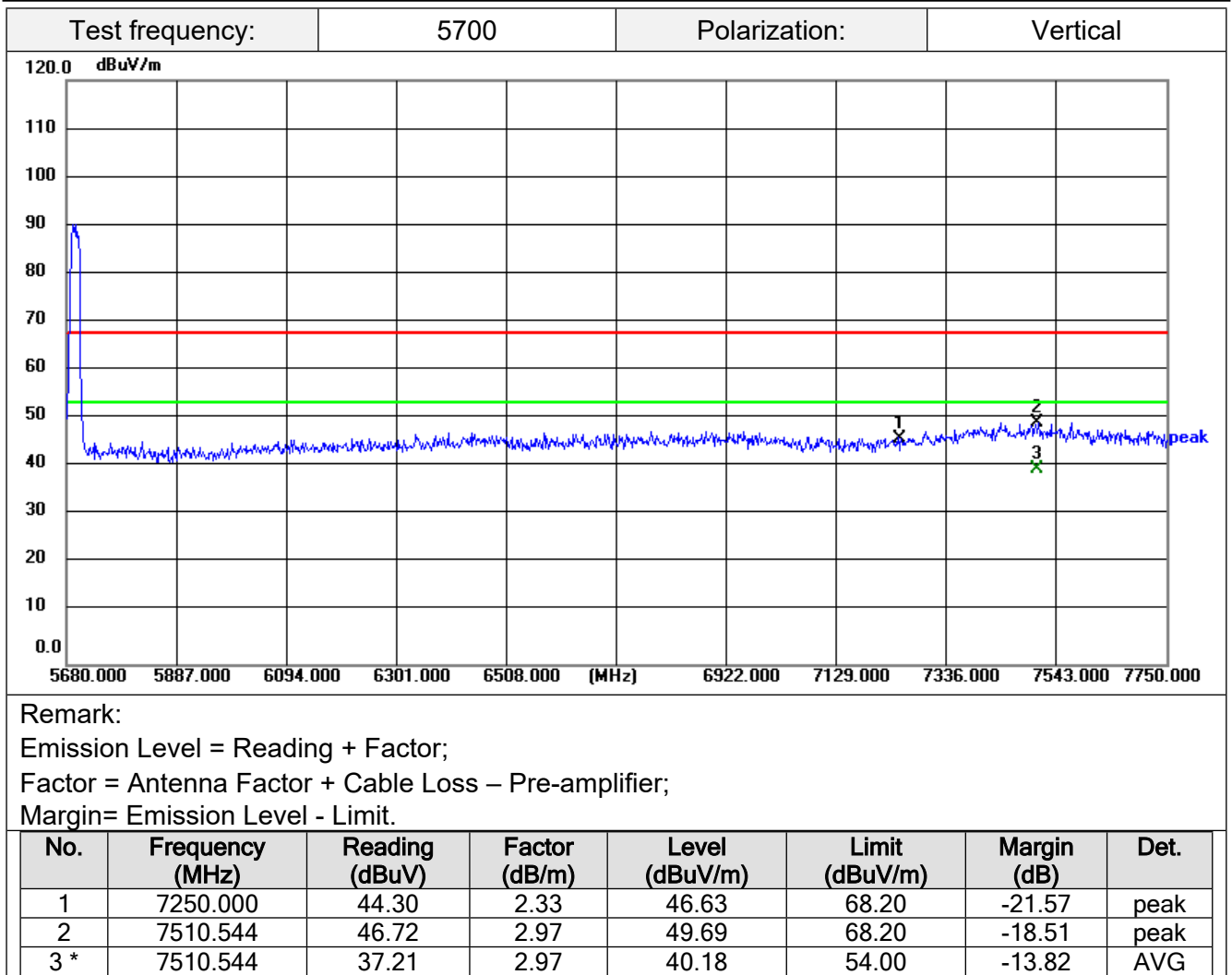
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5460.000        | 47.72          | -0.96         | 46.76          | 68.20          | -21.44      | peak |
| 2   | 7250.000        | 42.73          | 2.33          | 45.06          | 68.20          | -23.14      | peak |
| 3   | 7482.820        | 47.07          | 2.90          | 49.97          | 68.20          | -18.23      | peak |
| 4 * | 7482.820        | 37.40          | 2.90          | 40.30          | 54.00          | -13.70      | AVG  |



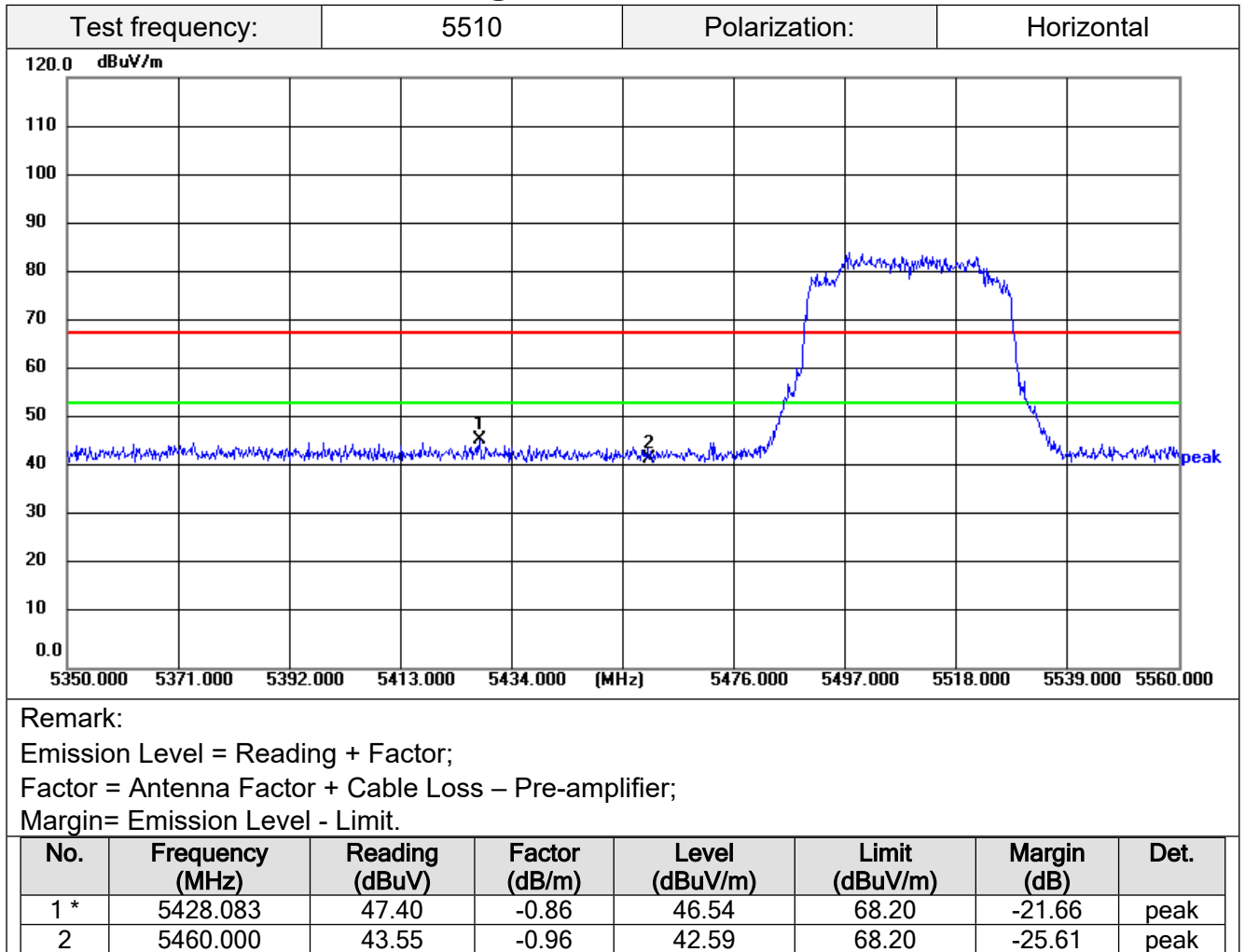
**U-NII 2C @ 802.11be(EHT20) MIMO mode**


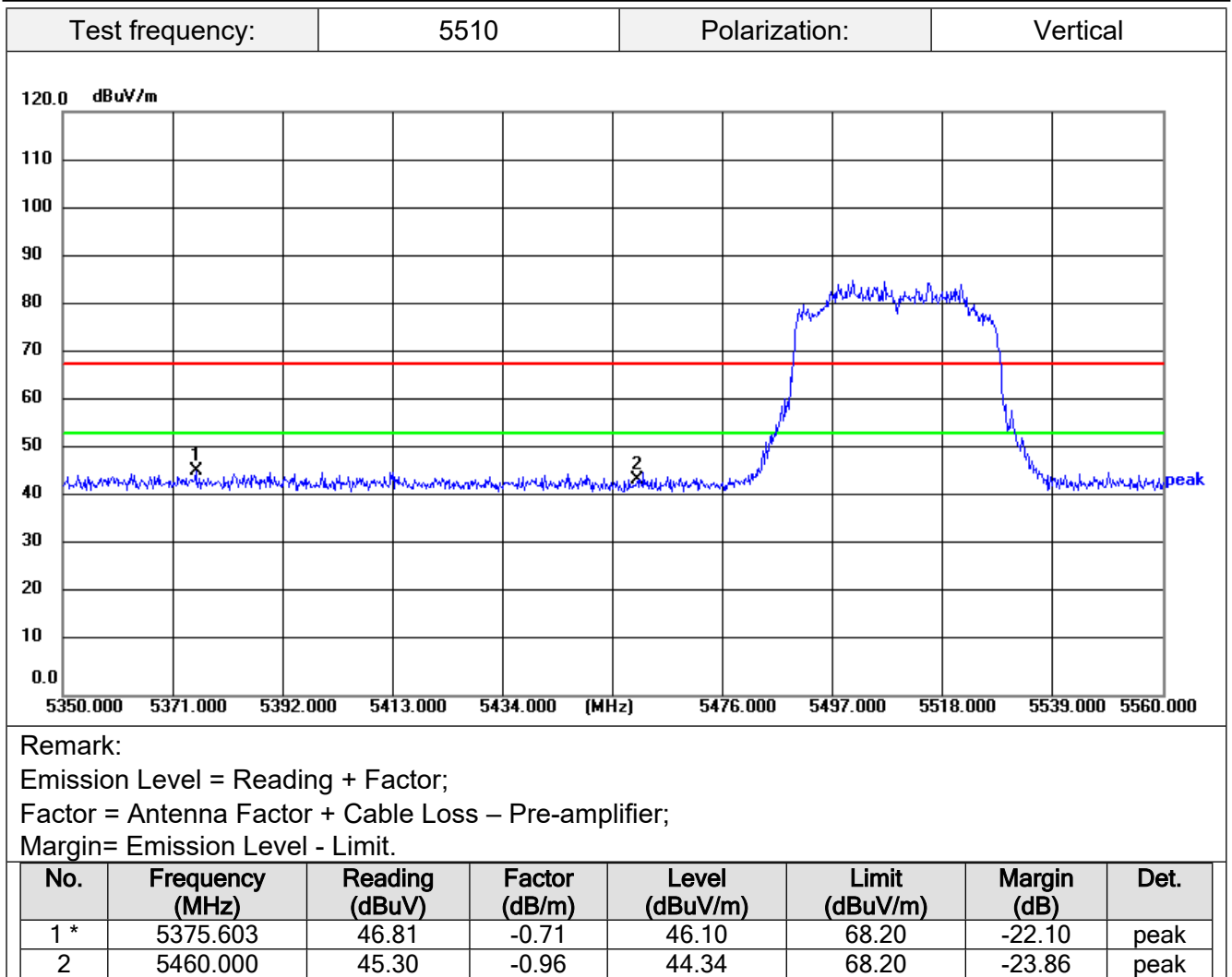


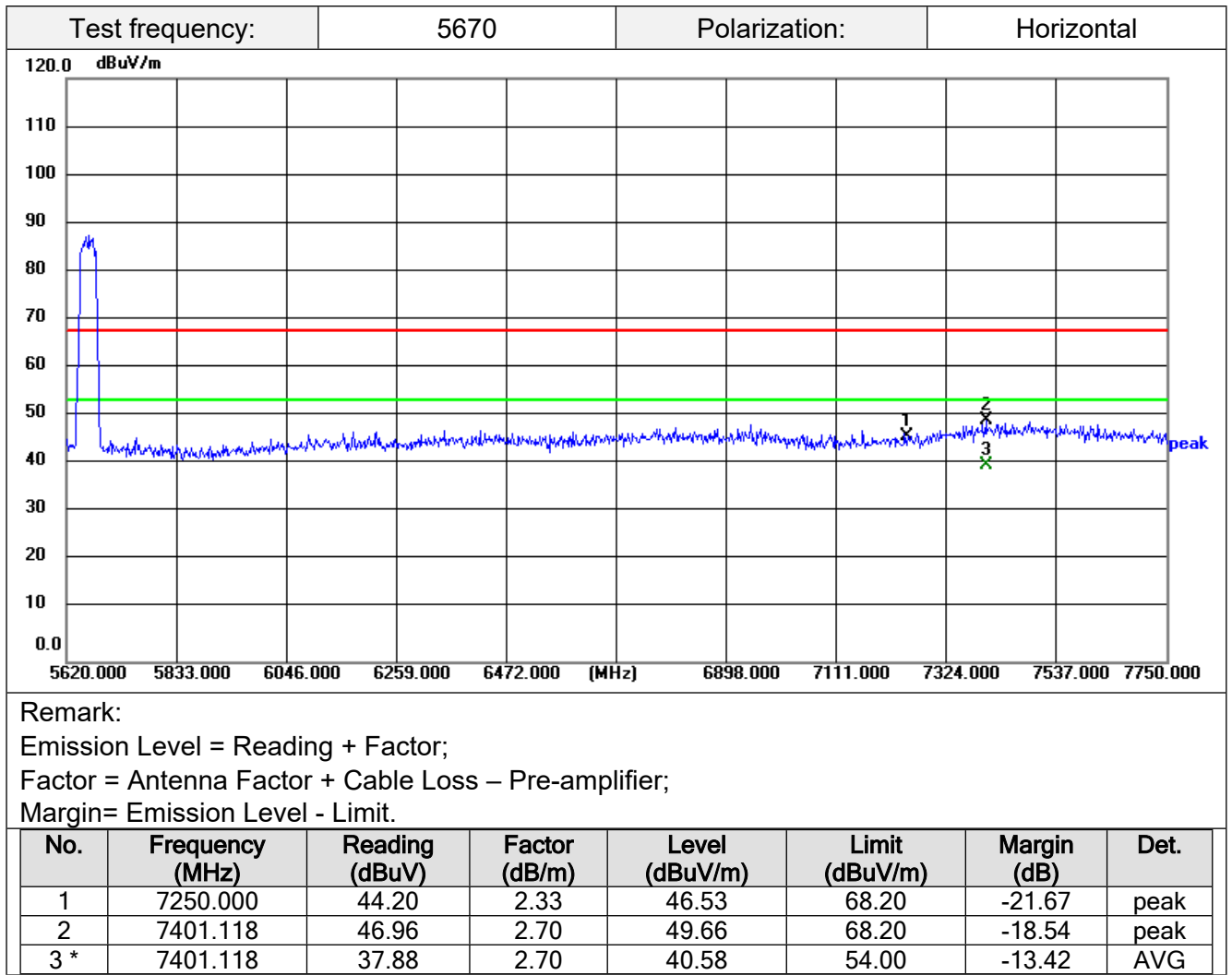


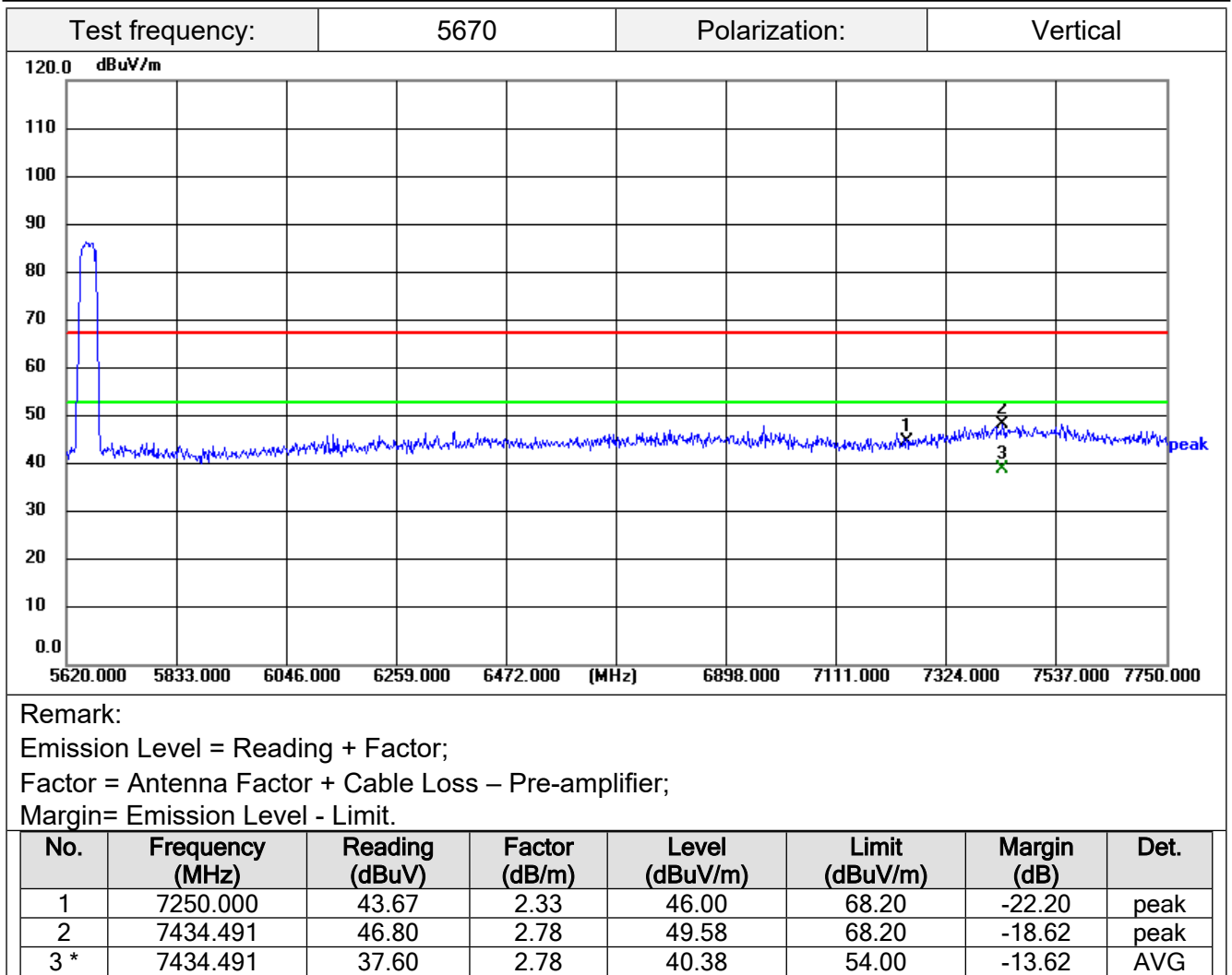


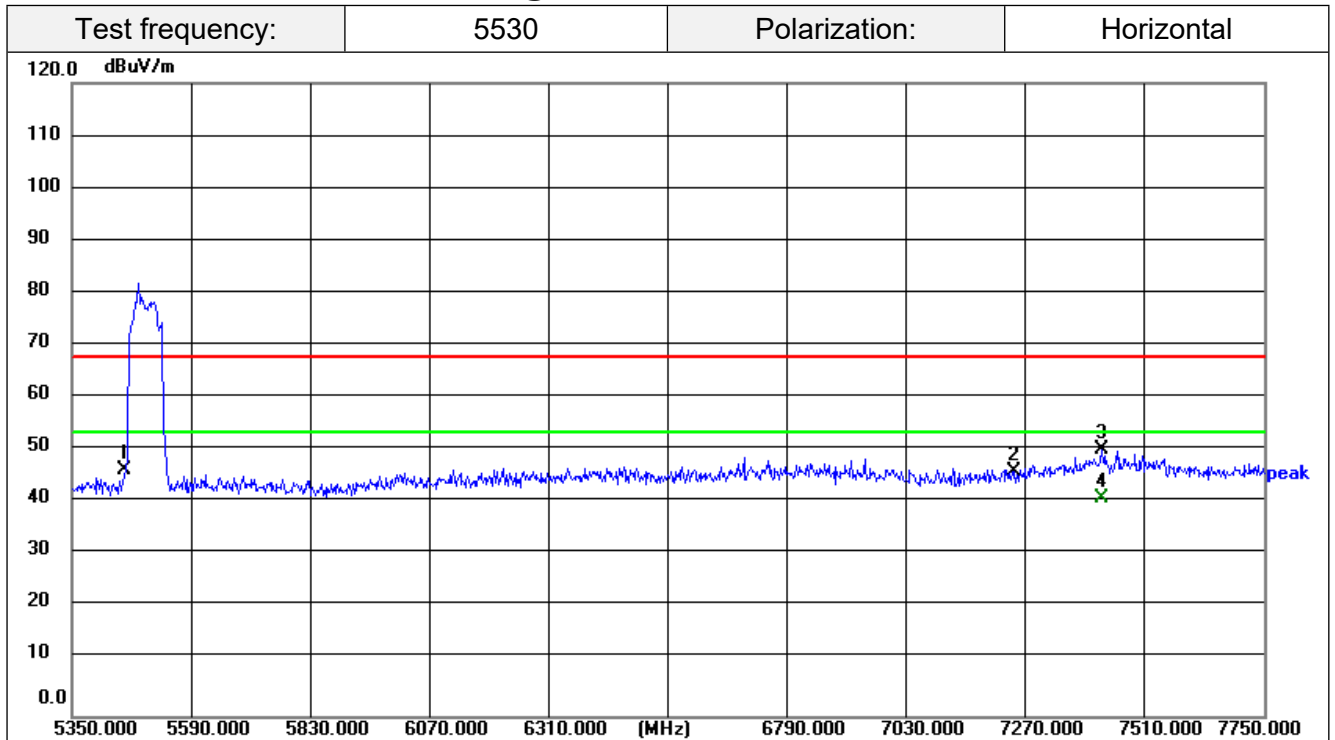
### U-NII 2C @ 802.11be(EHT40) MIMO mode









**U-NII 2C @ 802.11be(EHT80) MIMO mode**


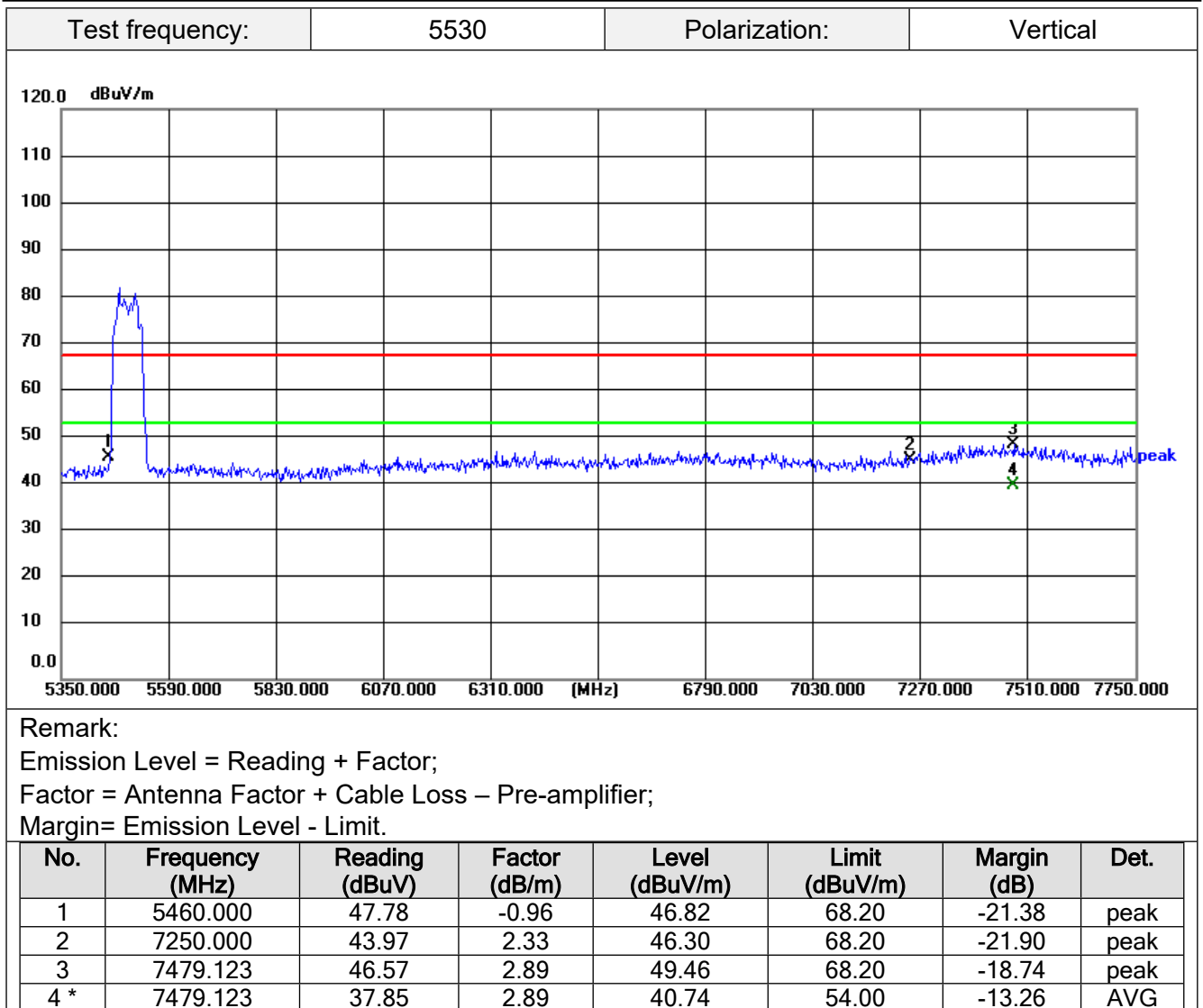
Remark:

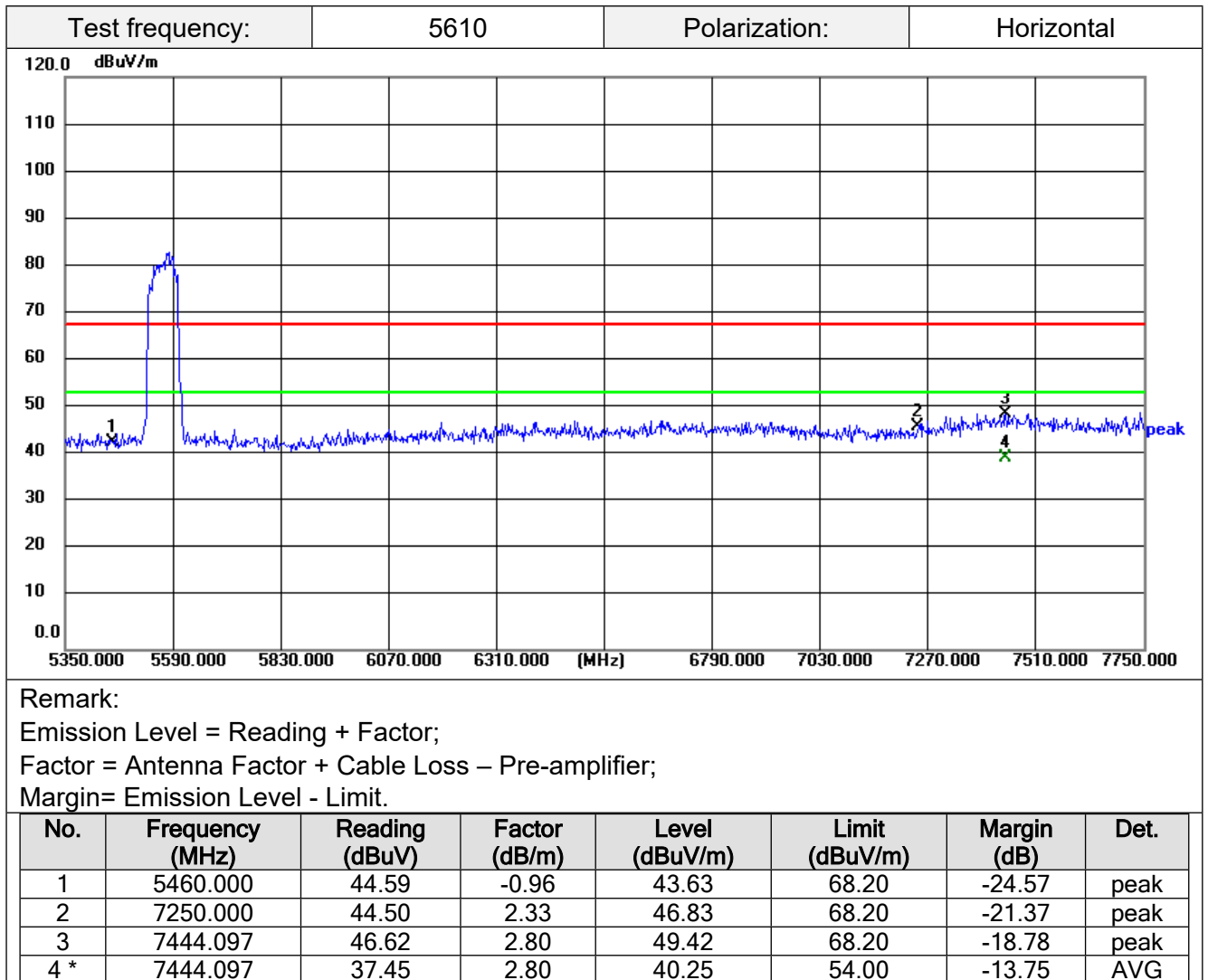
Emission Level = Reading + Factor;

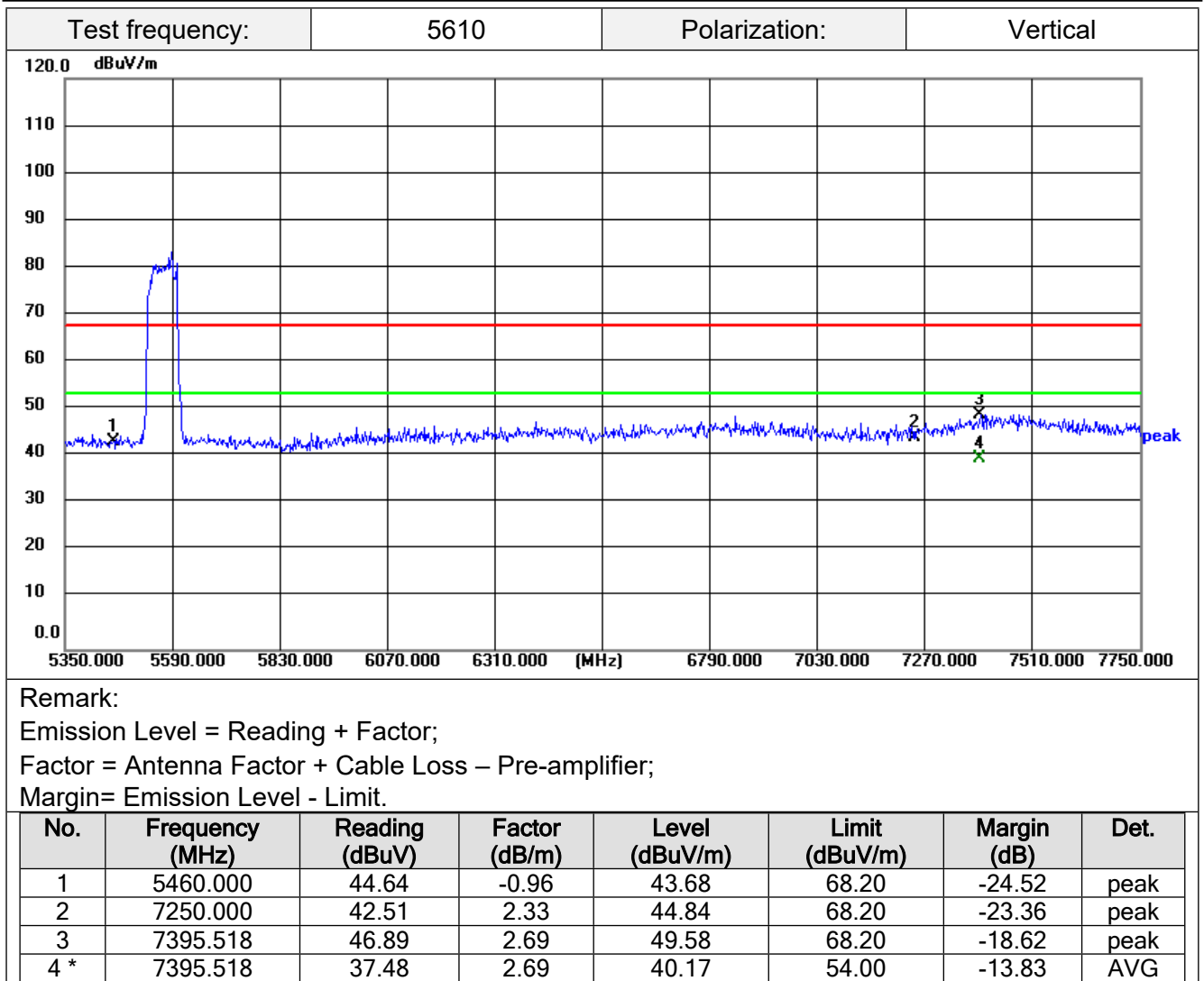
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

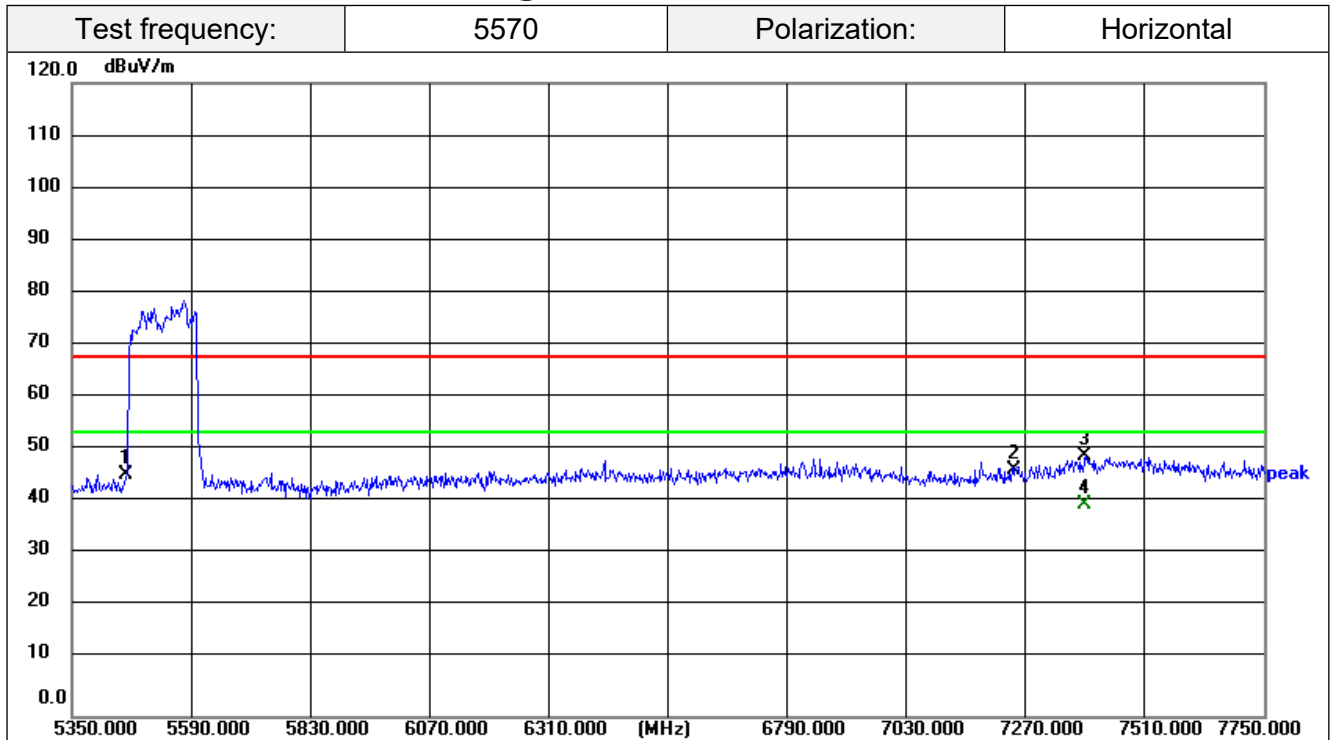
Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5460.000        | 47.74          | -0.96         | 46.78          | 68.20          | -21.42      | peak |
| 2   | 7250.000        | 44.14          | 2.33          | 46.47          | 68.20          | -21.73      | peak |
| 3   | 7425.728        | 47.99          | 2.75          | 50.74          | 68.20          | -17.46      | peak |
| 4 * | 7425.728        | 38.62          | 2.75          | 41.37          | 54.00          | -12.63      | AVG  |







**U-NII 2C @ 802.11be(EHT160) MIMO mode**


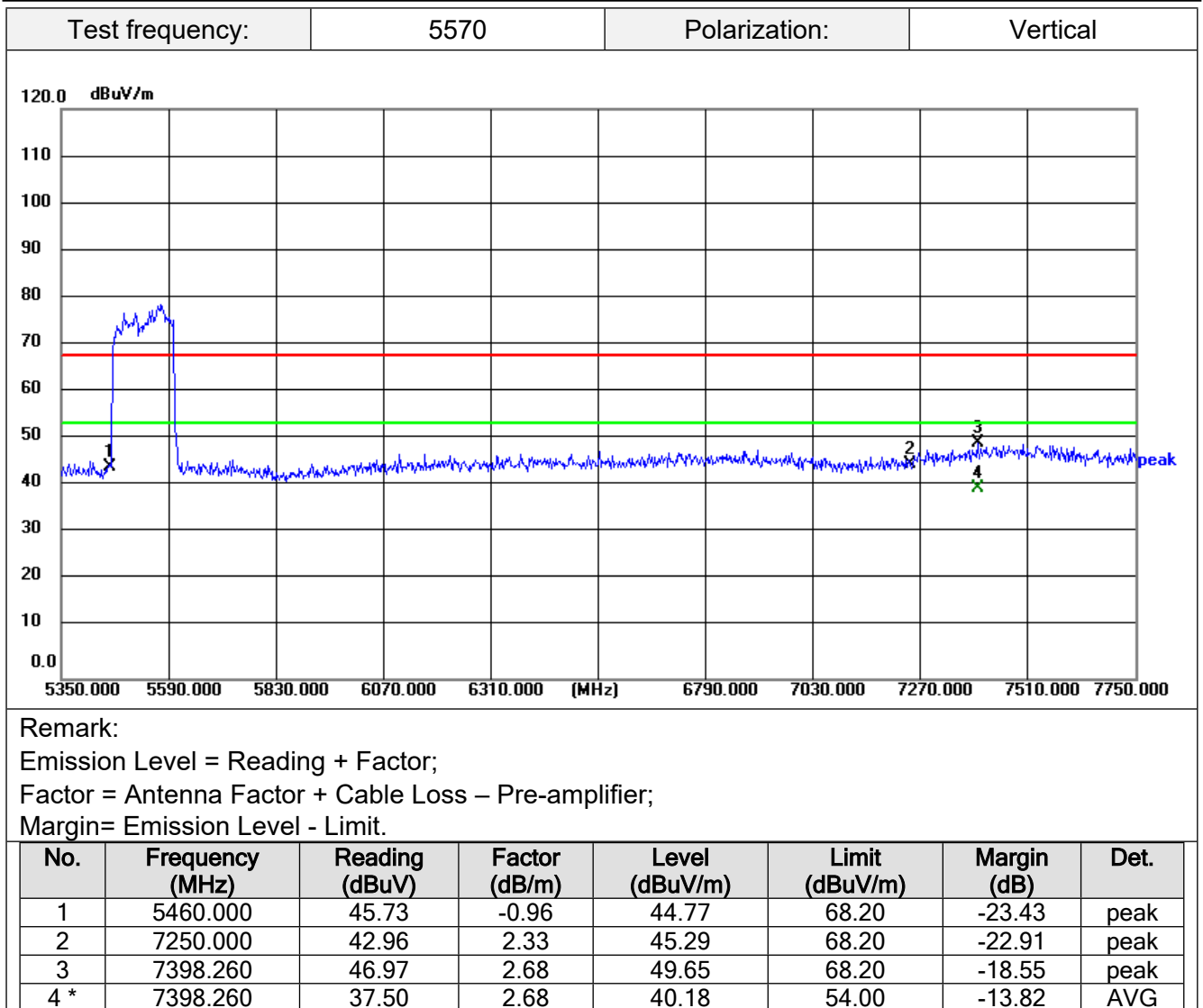
Remark:

Emission Level = Reading + Factor;

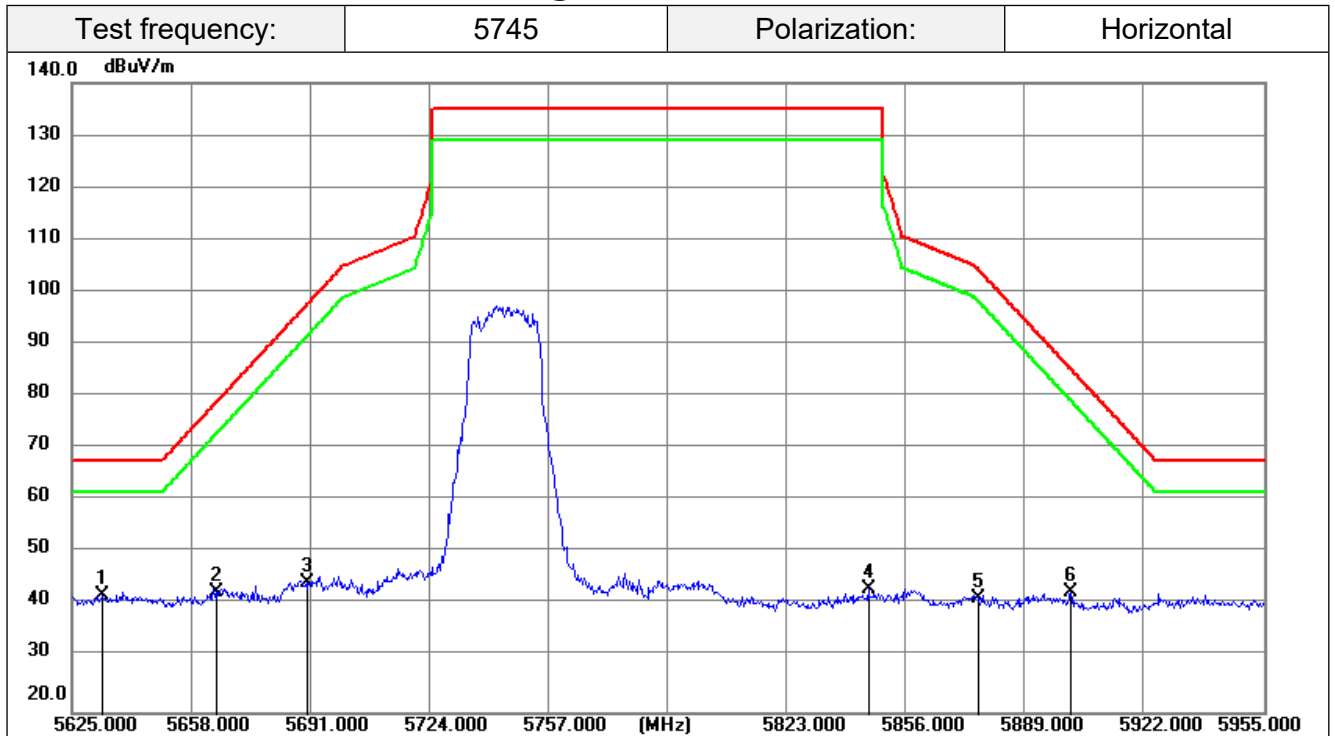
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5460.000        | 46.75          | -0.96         | 45.79          | 68.20          | -22.41      | peak |
| 2   | 7250.000        | 44.40          | 2.33          | 46.73          | 68.20          | -21.47      | peak |
| 3   | 7393.691        | 46.90          | 2.68          | 49.58          | 68.20          | -18.62      | peak |
| 4 * | 7393.691        | 37.64          | 2.68          | 40.32          | 54.00          | -13.68      | AVG  |



### U-NII 3 @ 802.11a mode antenna 1



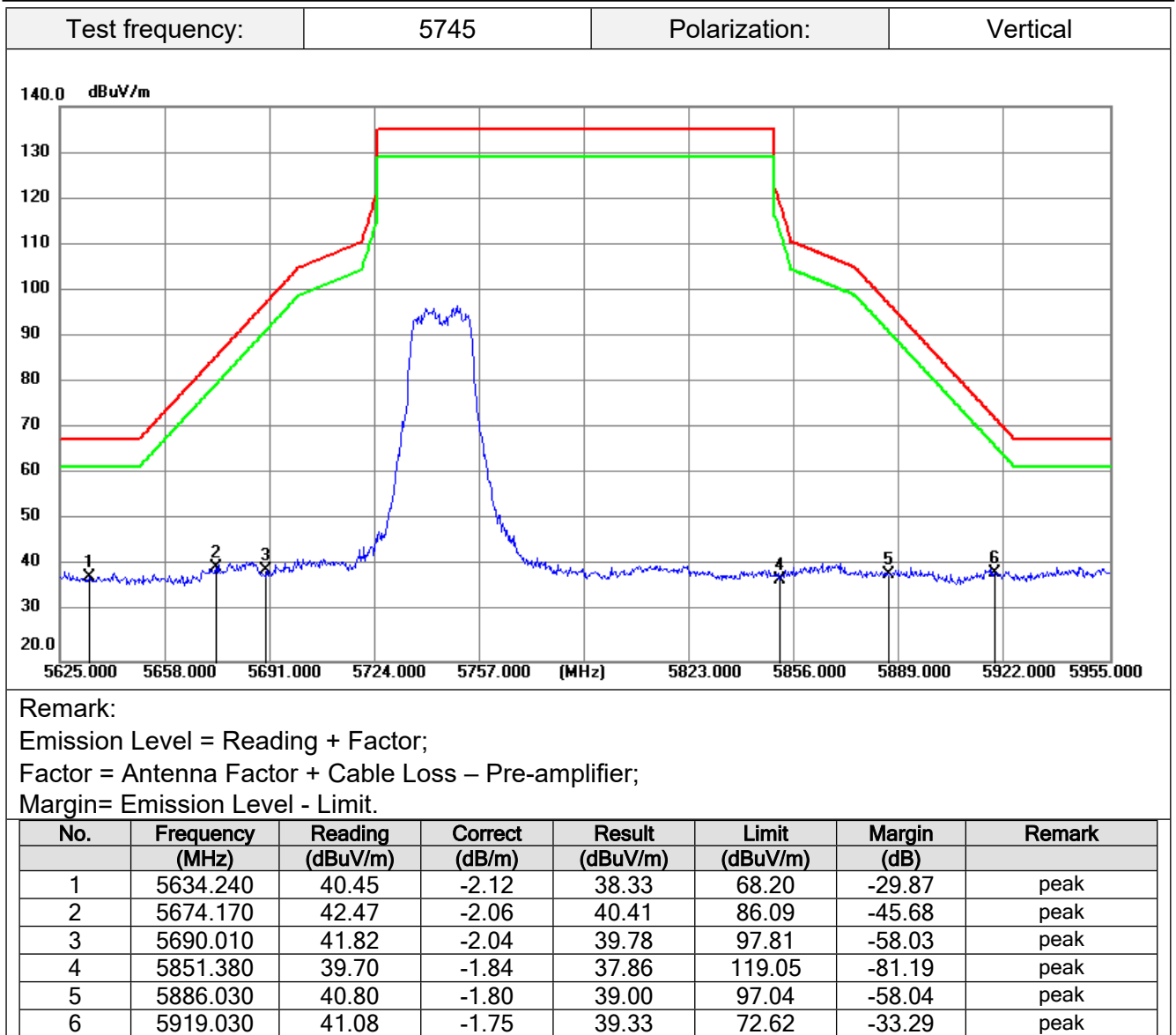
Remark:

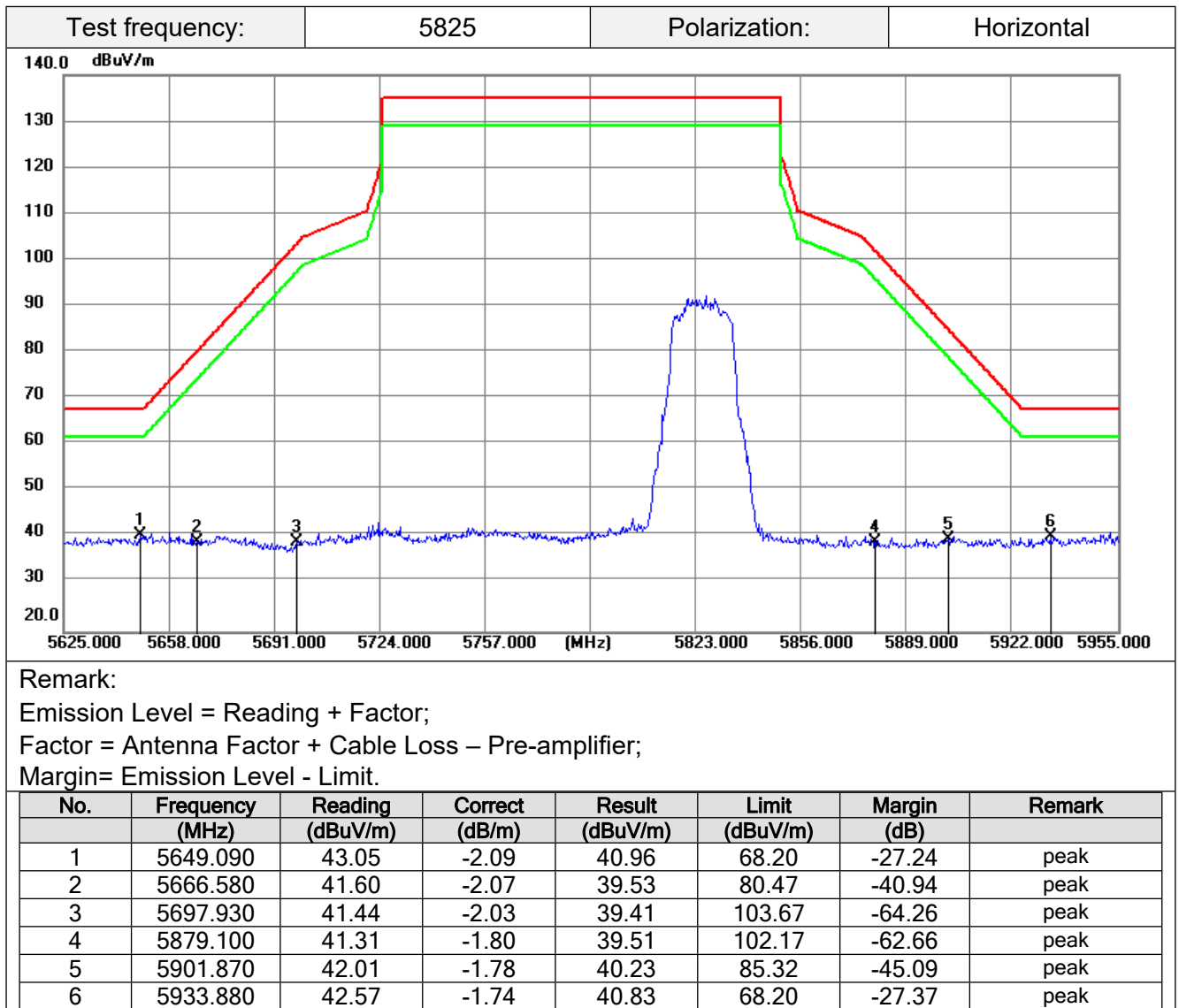
Emission Level = Reading + Factor;

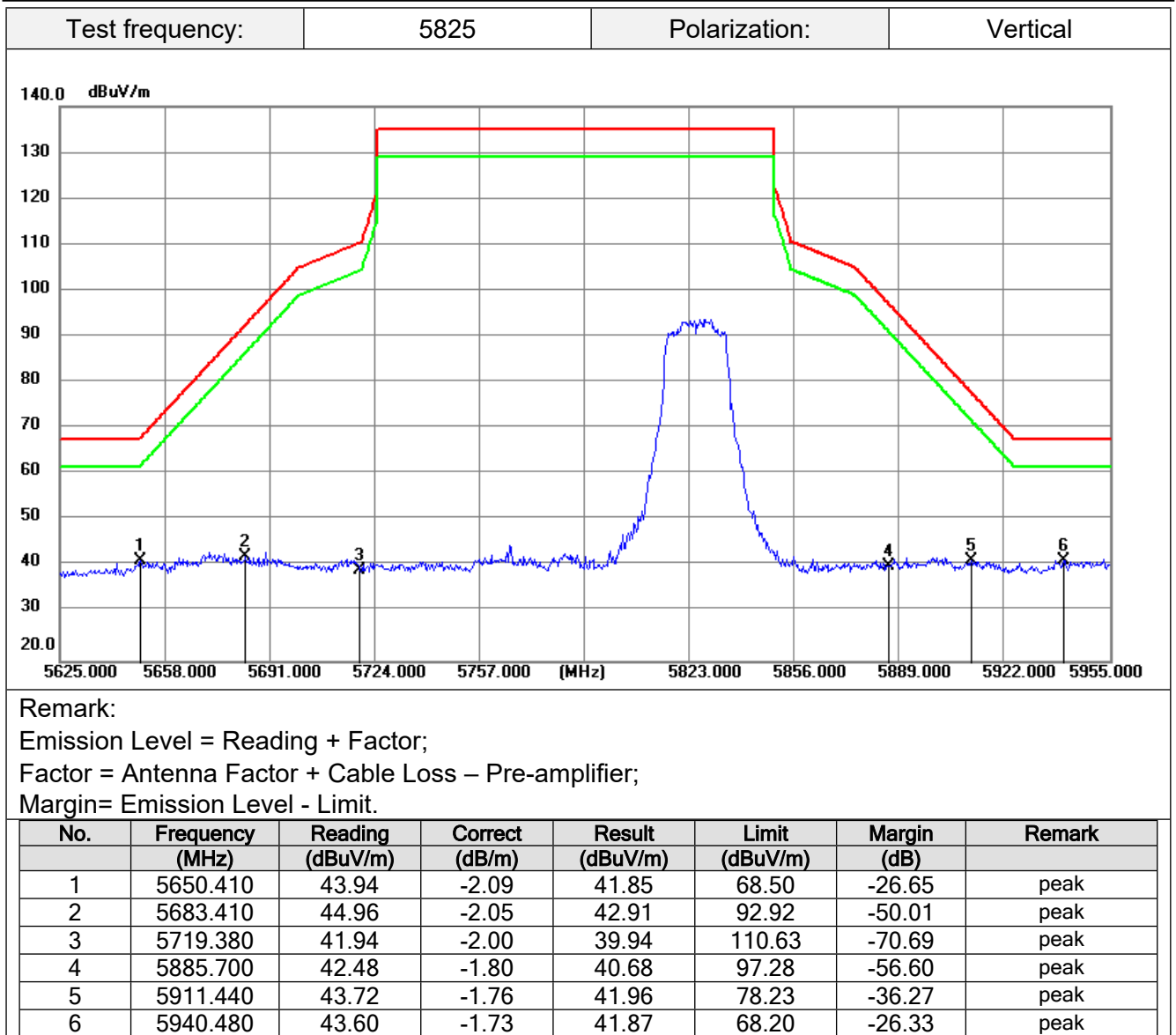
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

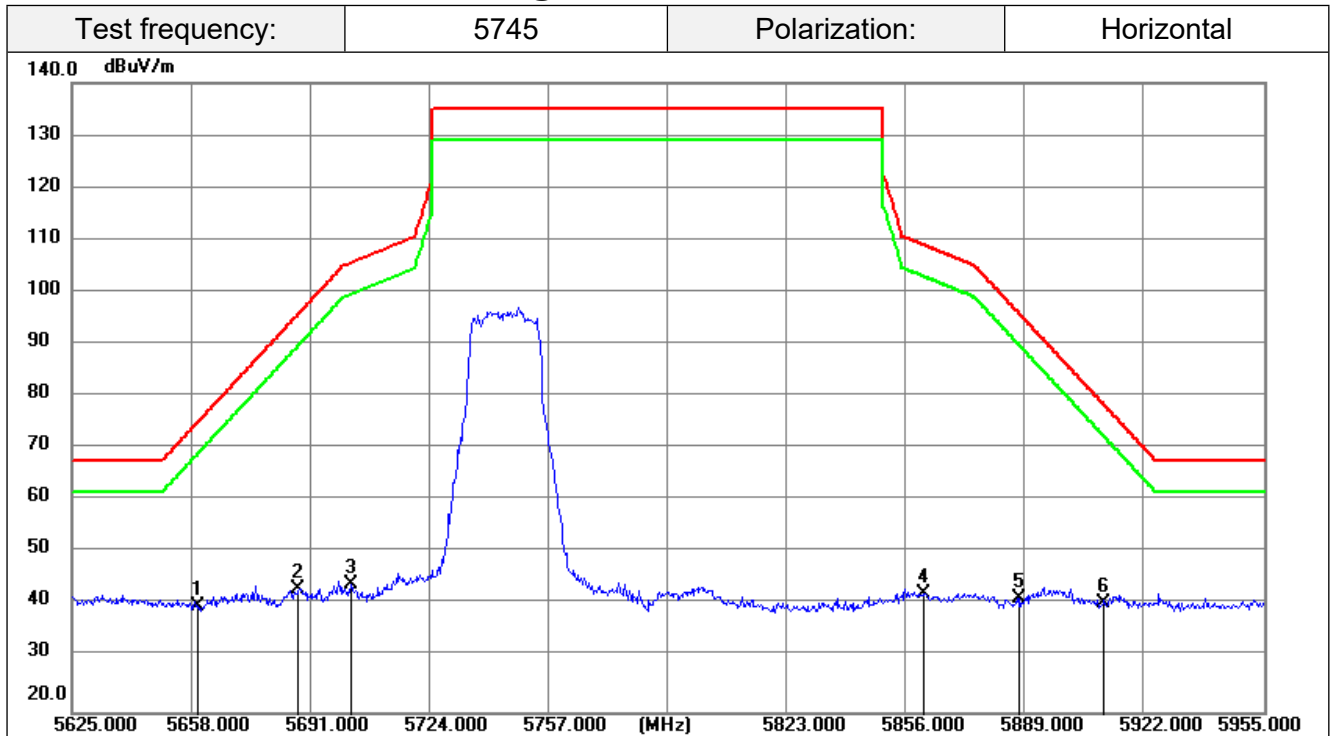
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5633.580        | 44.75            | -2.12          | 42.63           | 68.20          | -25.57      | peak   |
| 2   | 5665.260        | 45.00            | -2.07          | 42.93           | 79.49          | -36.56      | peak   |
| 3   | 5690.340        | 46.83            | -2.04          | 44.79           | 98.05          | -53.26      | peak   |
| 4   | 5845.440        | 45.38            | -1.84          | 43.54           | 135.00         | -91.46      | peak   |
| 5   | 5876.130        | 43.68            | -1.80          | 41.88           | 104.36         | -62.48      | peak   |
| 6   | 5901.540        | 44.90            | -1.78          | 43.12           | 85.56          | -42.44      | peak   |







### U-NII 3 @ 802.11n(HT20) MIMO mode



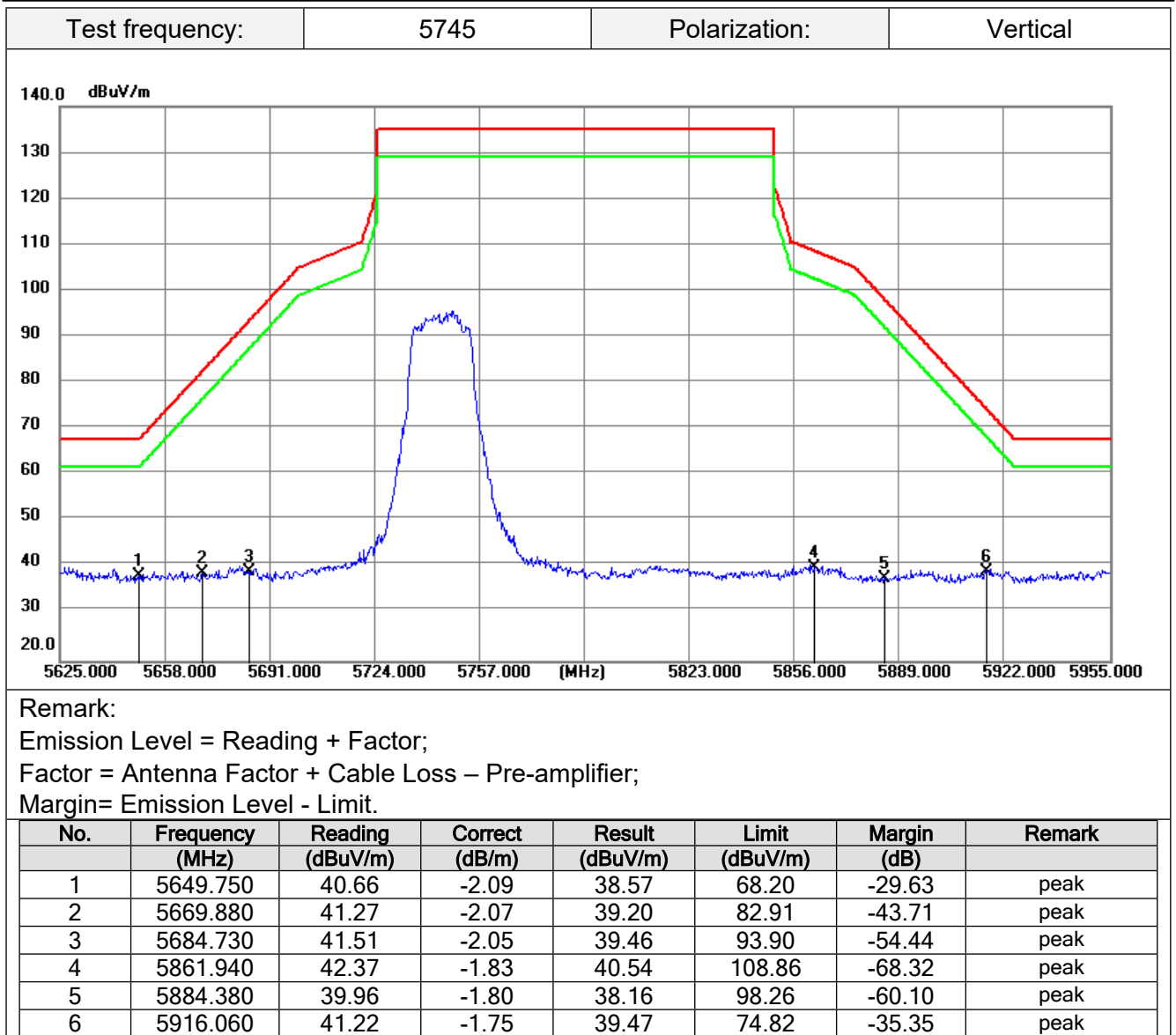
Remark:

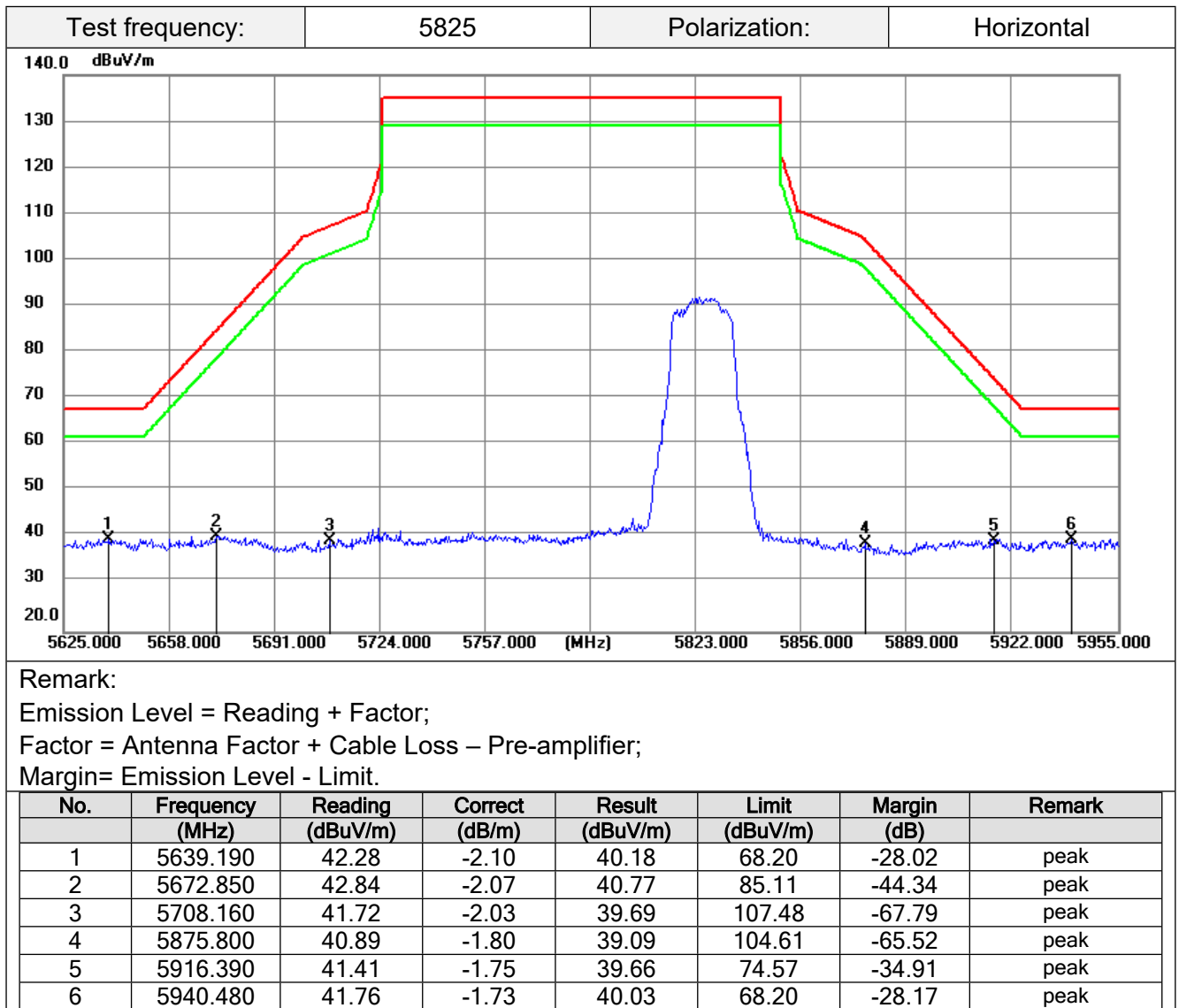
Emission Level = Reading + Factor;

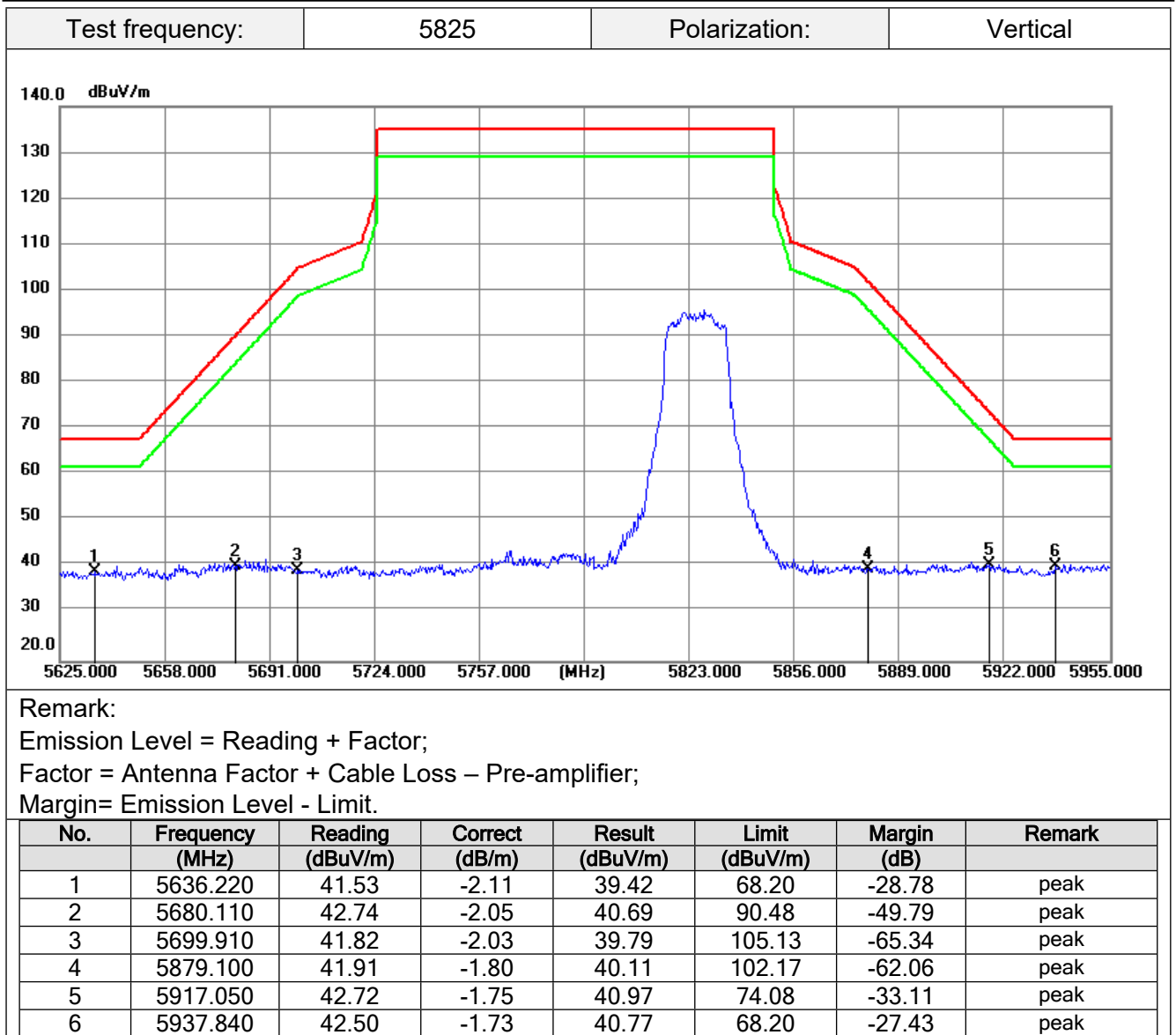
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

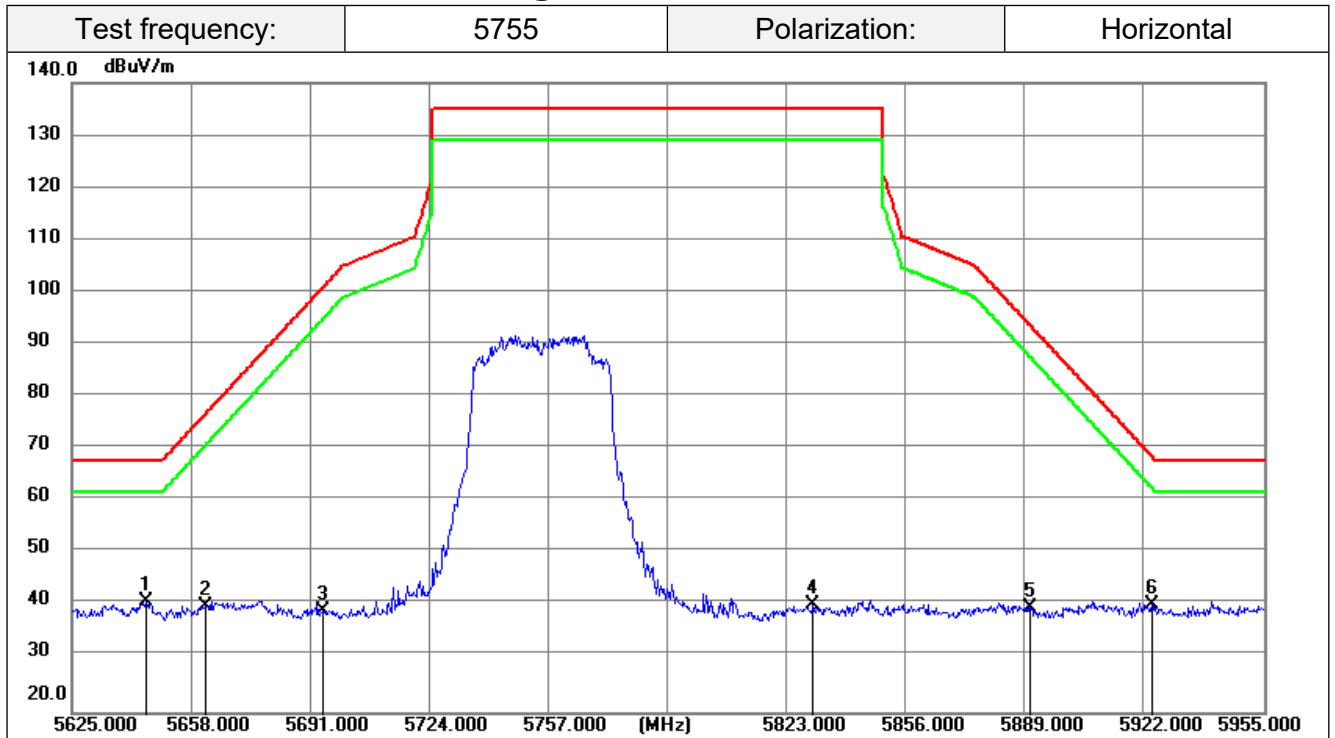
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5659.650        | 42.33            | -2.08          | 40.25           | 75.34          | -35.09      | peak   |
| 2   | 5688.030        | 45.63            | -2.04          | 43.59           | 96.34          | -52.75      | peak   |
| 3   | 5702.220        | 46.63            | -2.03          | 44.60           | 105.82         | -61.22      | peak   |
| 4   | 5860.950        | 44.56            | -1.83          | 42.73           | 109.13         | -66.40      | peak   |
| 5   | 5887.350        | 43.65            | -1.80          | 41.85           | 96.06          | -54.21      | peak   |
| 6   | 5910.450        | 42.68            | -1.76          | 40.92           | 78.97          | -38.05      | peak   |







### U-NII 3 @ 802.11n(HT40) MIMO mode



Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

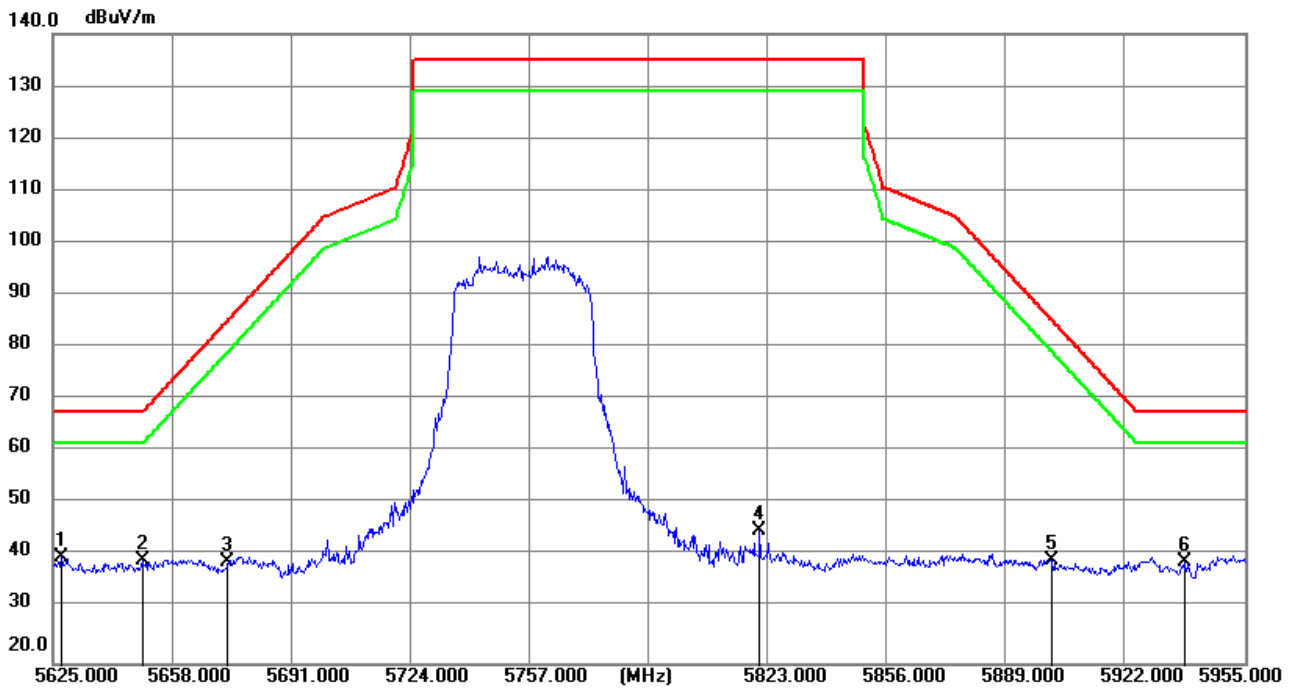
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5645.460        | 43.50            | -2.09          | 41.41           | 68.20          | -26.79      | peak   |
| 2   | 5661.960        | 42.53            | -2.08          | 40.45           | 77.05          | -36.60      | peak   |
| 3   | 5694.630        | 41.60            | -2.03          | 39.57           | 101.23         | -61.66      | peak   |
| 4   | 5830.260        | 42.69            | -1.86          | 40.83           | 135.00         | -94.17      | peak   |
| 5   | 5890.320        | 41.82            | -1.79          | 40.03           | 93.86          | -53.83      | peak   |
| 6   | 5923.980        | 42.54            | -1.75          | 40.79           | 68.95          | -28.16      | peak   |

Test frequency:

5755

Polarization:

Vertical



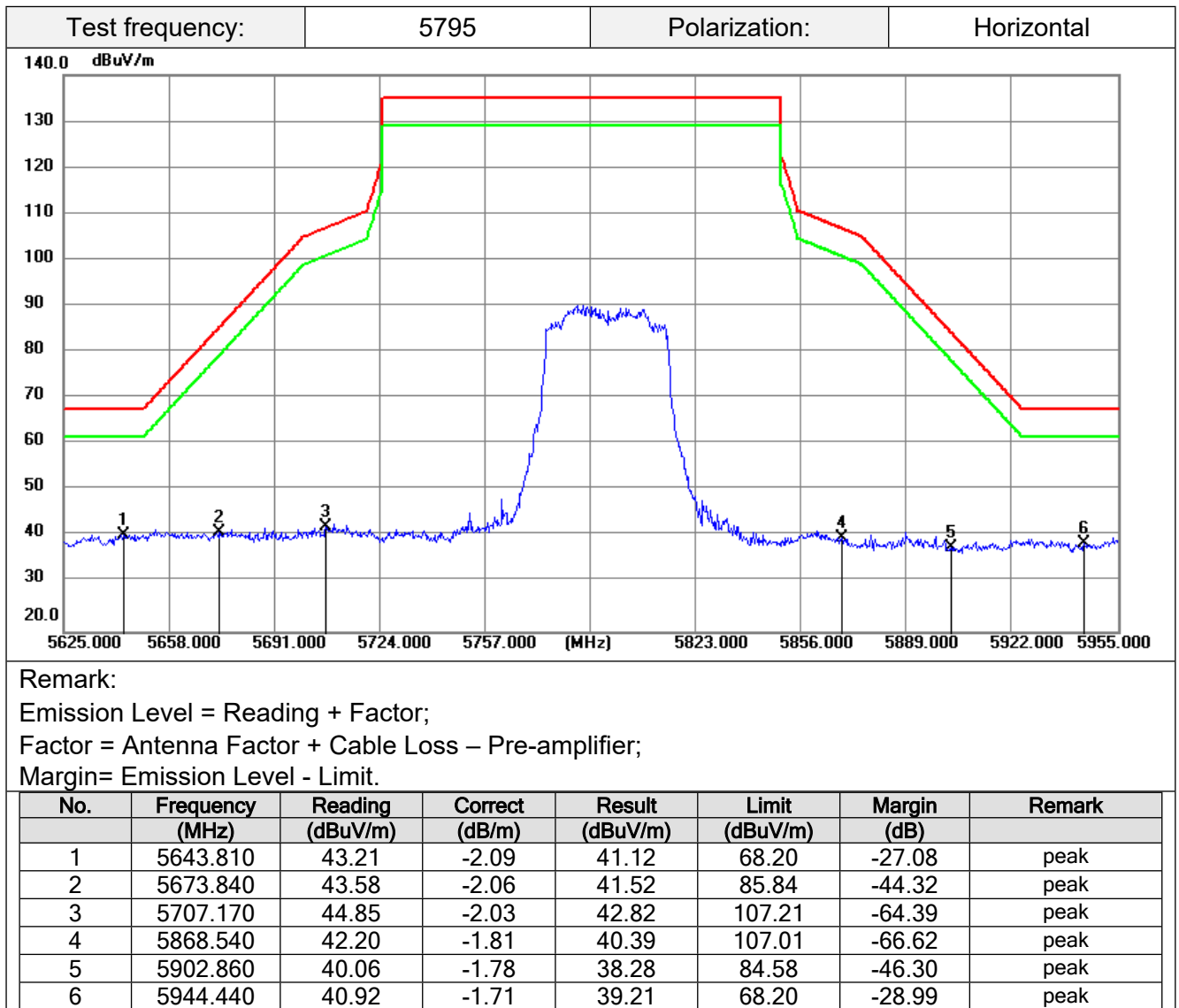
Remark:

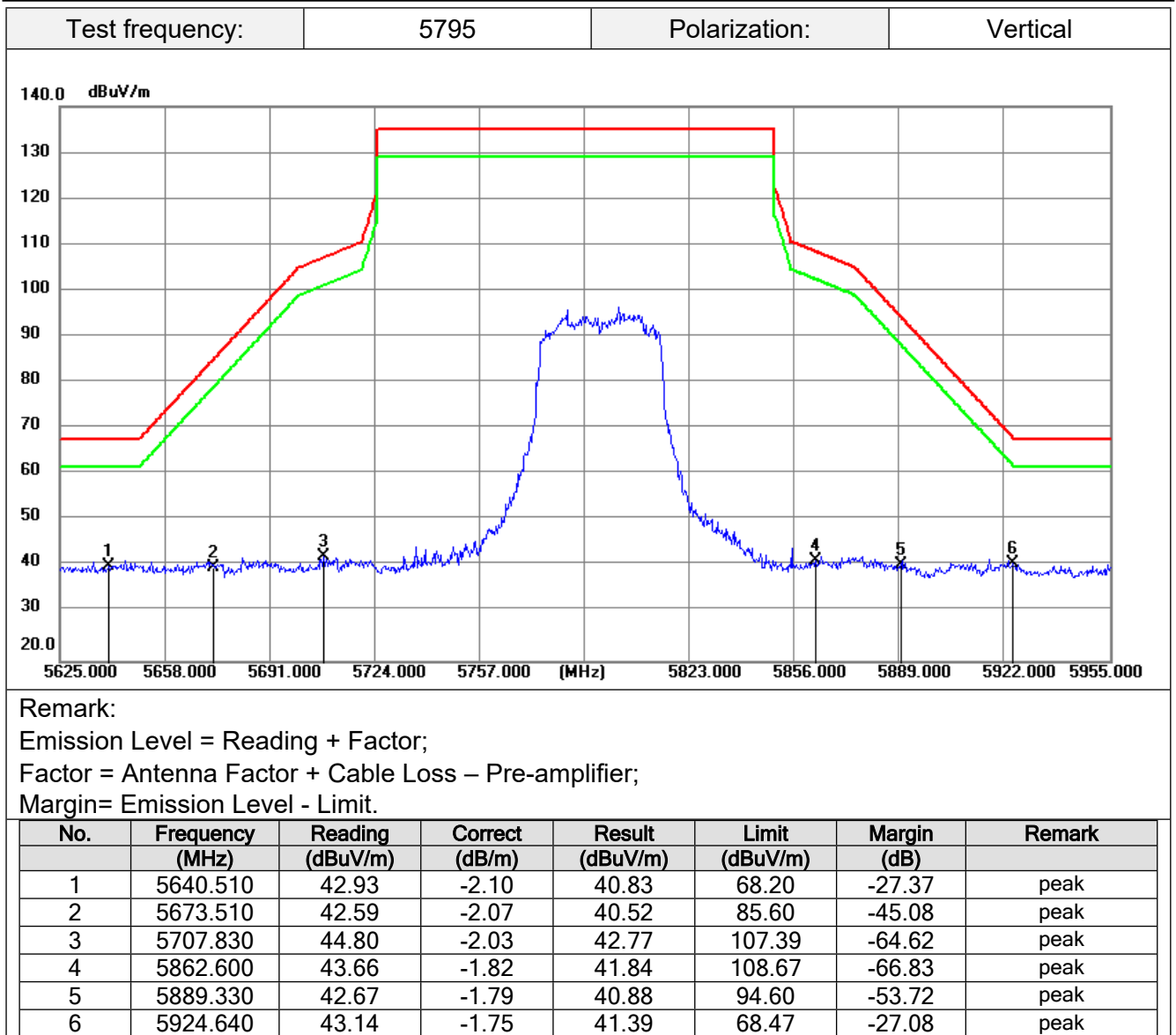
Emission Level = Reading + Factor;

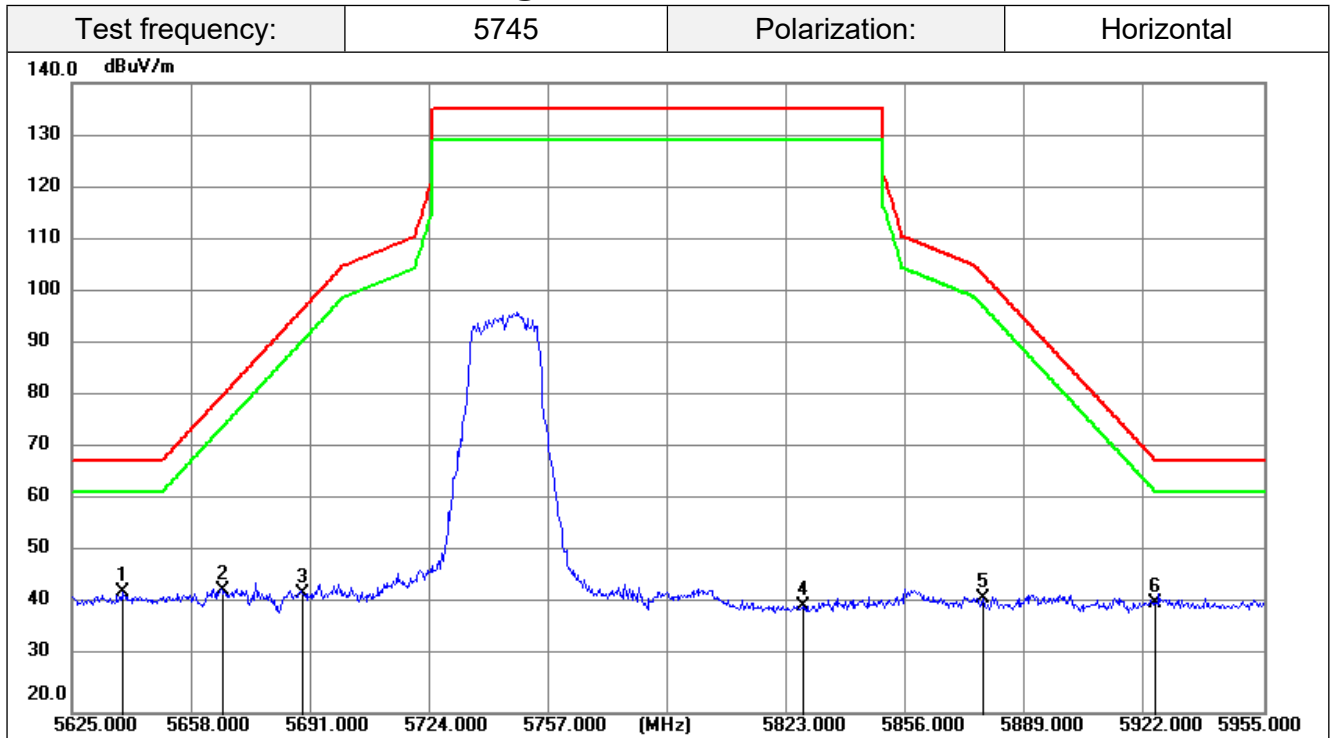
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5627.310        | 42.43            | -2.12          | 40.31           | 68.20          | -27.89      | peak   |
| 2   | 5649.750        | 41.95            | -2.09          | 39.86           | 68.20          | -28.34      | peak   |
| 3   | 5673.510        | 41.61            | -2.07          | 39.54           | 85.60          | -46.06      | peak   |
| 4   | 5820.690        | 47.40            | -1.88          | 45.52           | 135.00         | -89.48      | peak   |
| 5   | 5901.540        | 41.58            | -1.78          | 39.80           | 85.56          | -45.76      | peak   |
| 6   | 5938.170        | 41.38            | -1.73          | 39.65           | 68.20          | -28.55      | peak   |





**U-NII 3 @ 802.11ac(VHT20) MIMO mode**


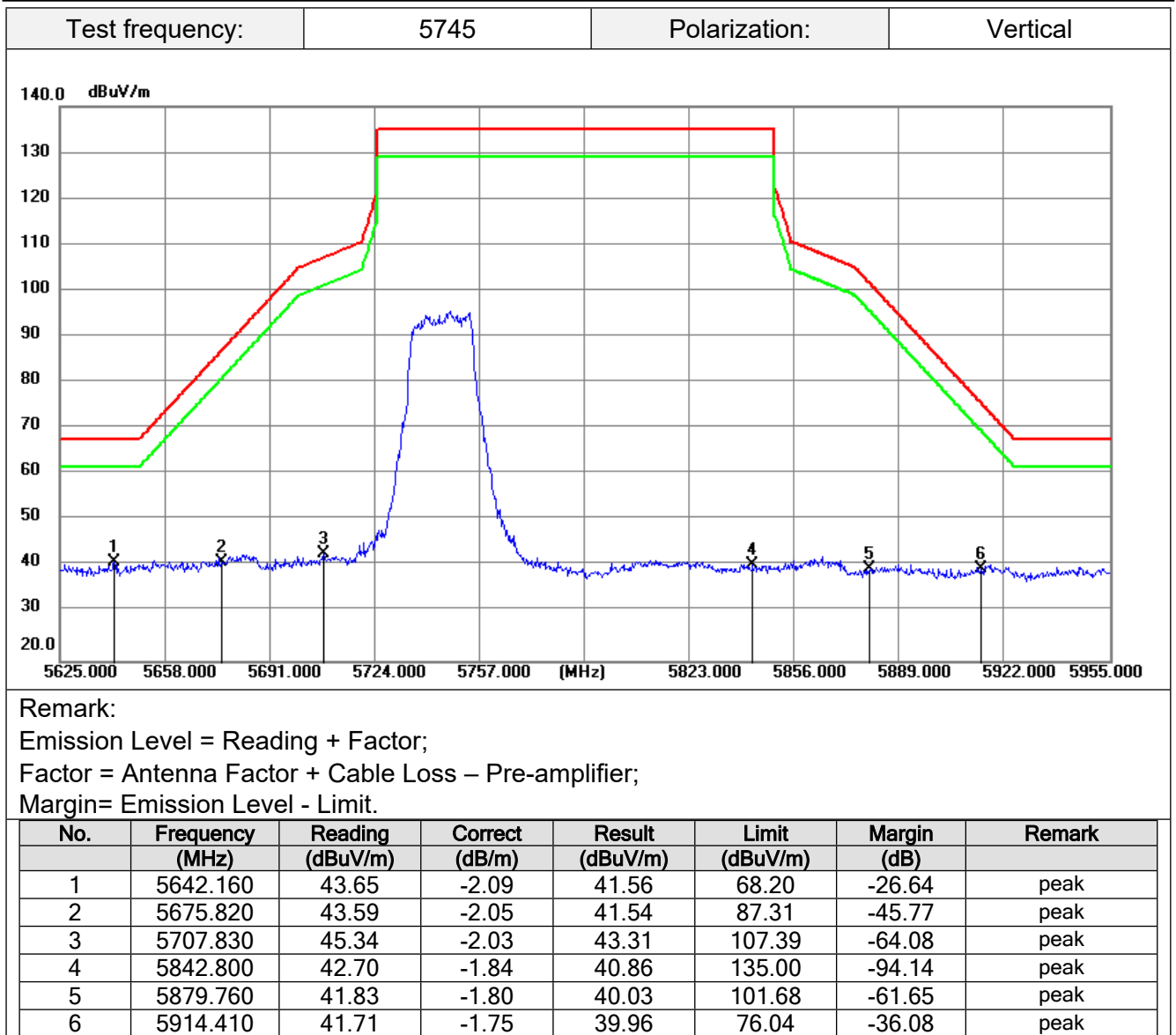
Remark:

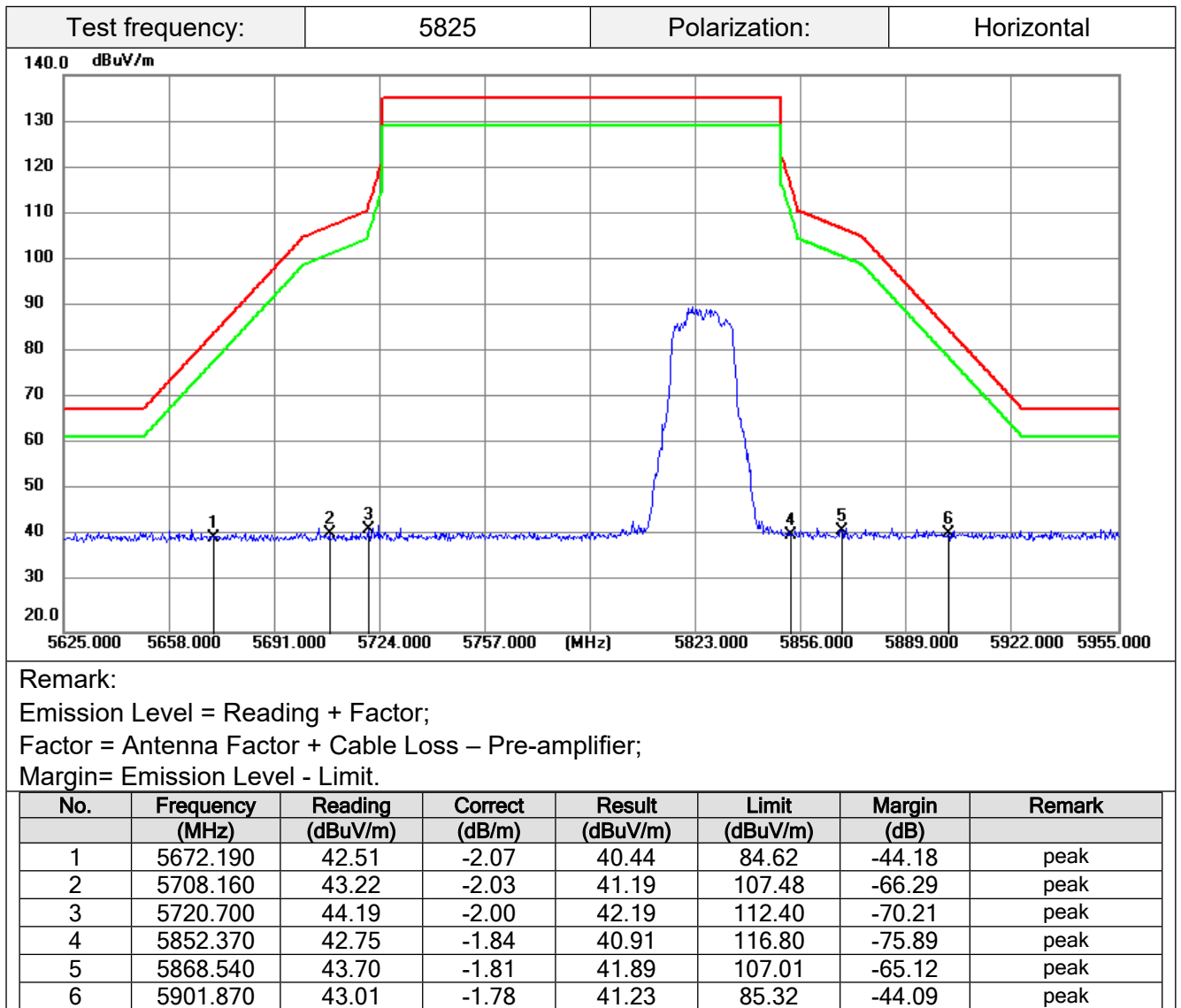
Emission Level = Reading + Factor;

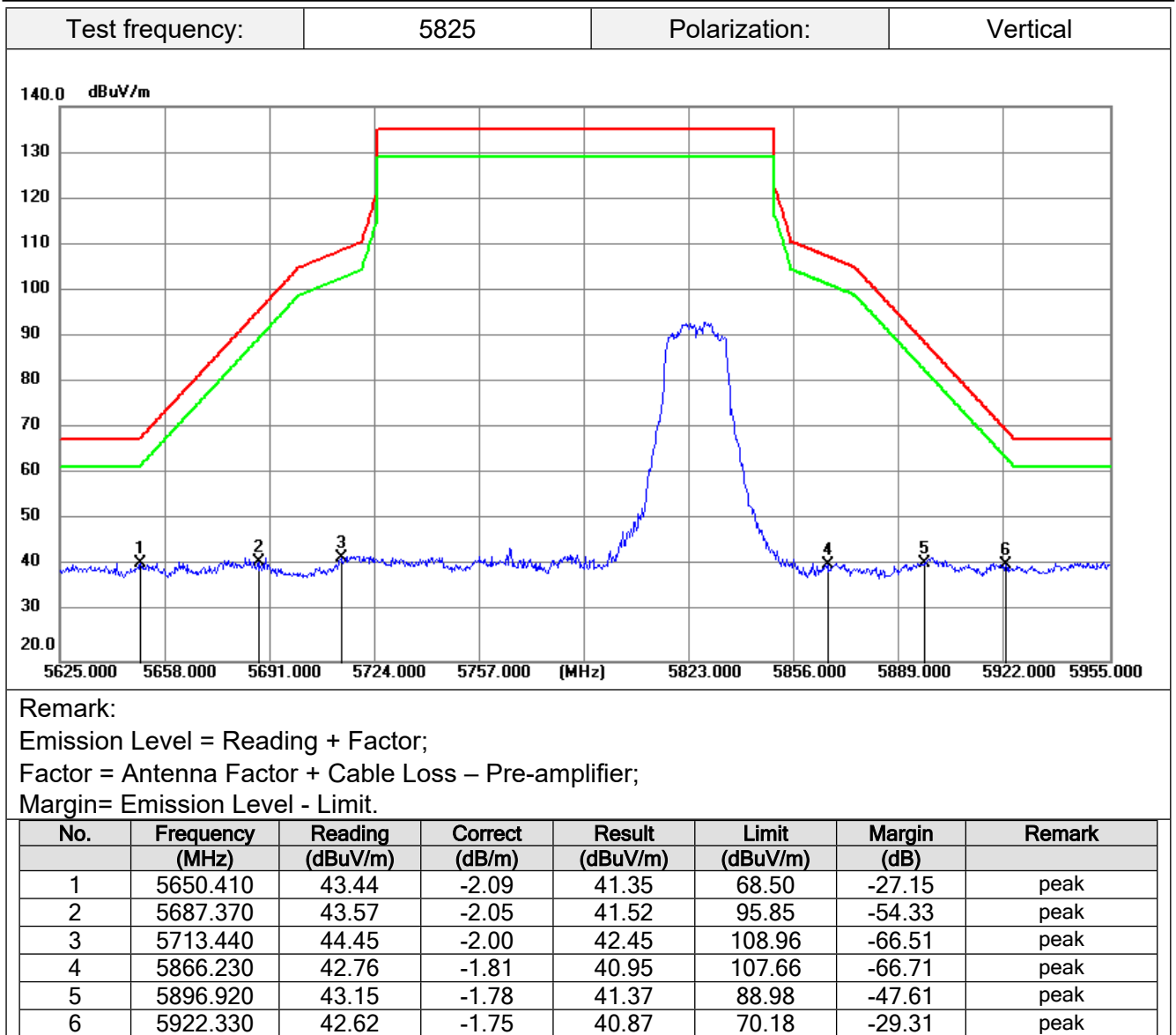
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

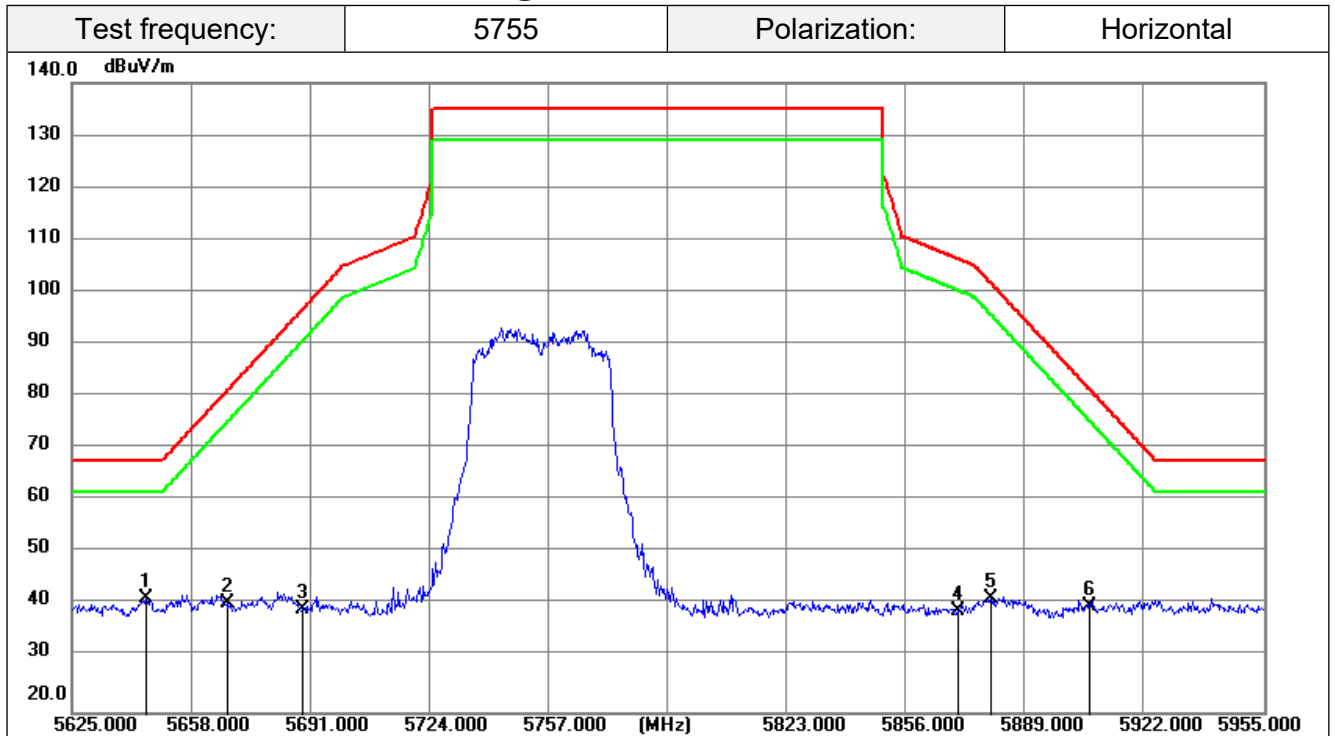
Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5638.860        | 45.11            | -2.10          | 43.01           | 68.20          | -25.19      | peak   |
| 2   | 5666.580        | 45.44            | -2.07          | 43.37           | 80.47          | -37.10      | peak   |
| 3   | 5688.690        | 44.83            | -2.04          | 42.79           | 96.83          | -54.04      | peak   |
| 4   | 5827.290        | 42.34            | -1.86          | 40.48           | 135.00         | -94.52      | peak   |
| 5   | 5877.120        | 43.82            | -1.80          | 42.02           | 103.63         | -61.61      | peak   |
| 6   | 5924.970        | 42.82            | -1.74          | 41.08           | 68.22          | -27.14      | peak   |







**U-NII 3 @ 802.11ac(VHT40) MIMO mode**


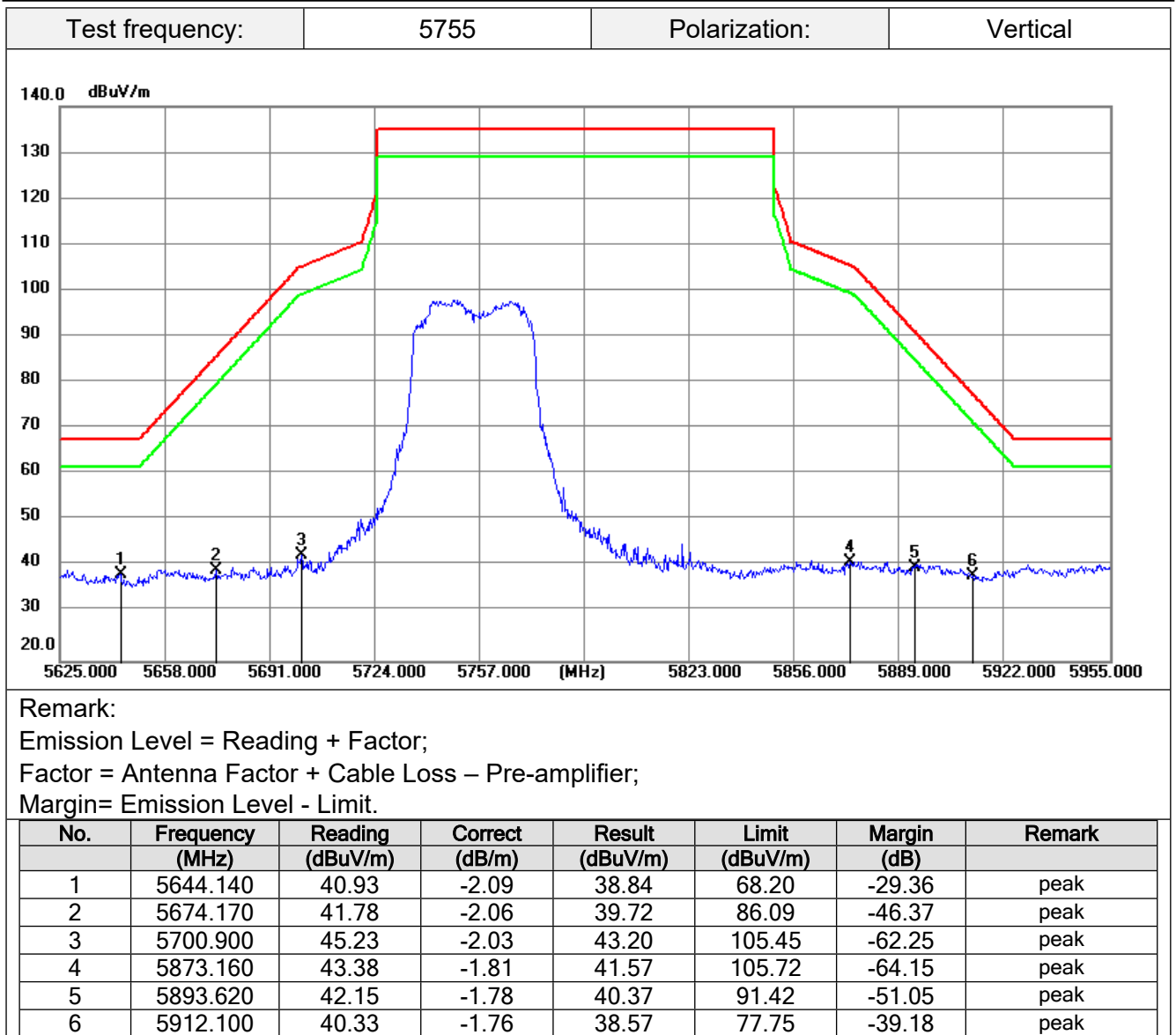
Remark:

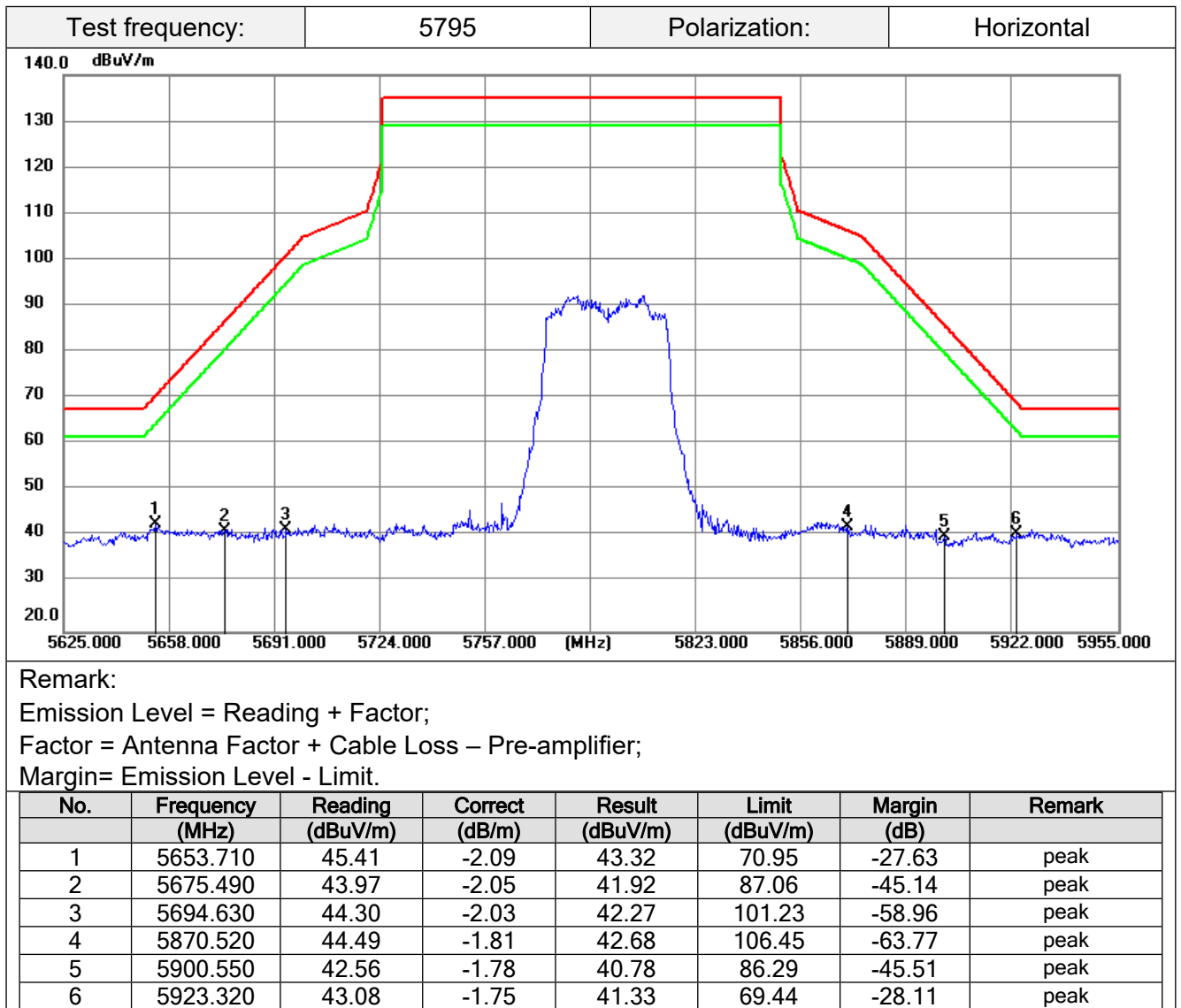
Emission Level = Reading + Factor;

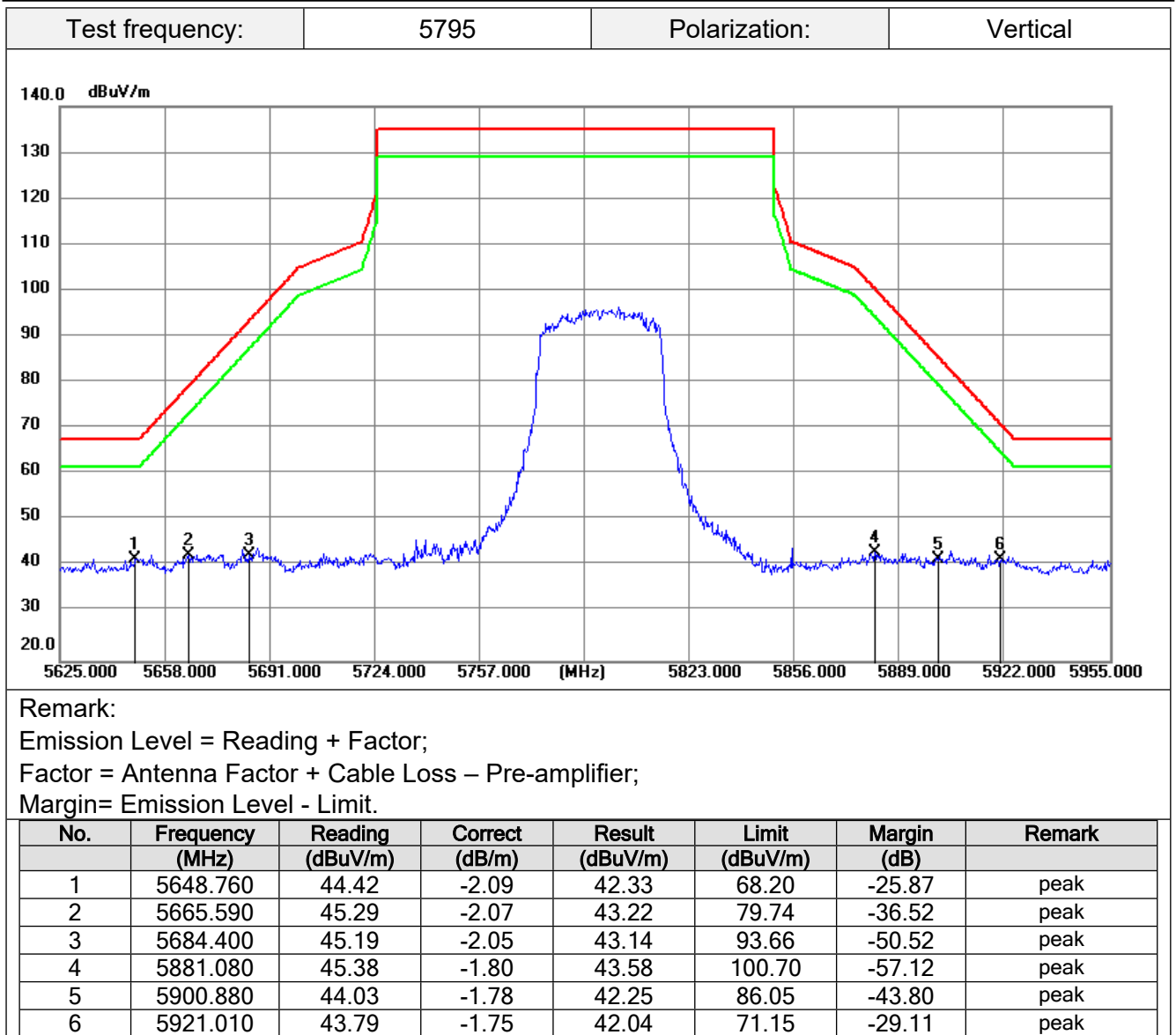
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

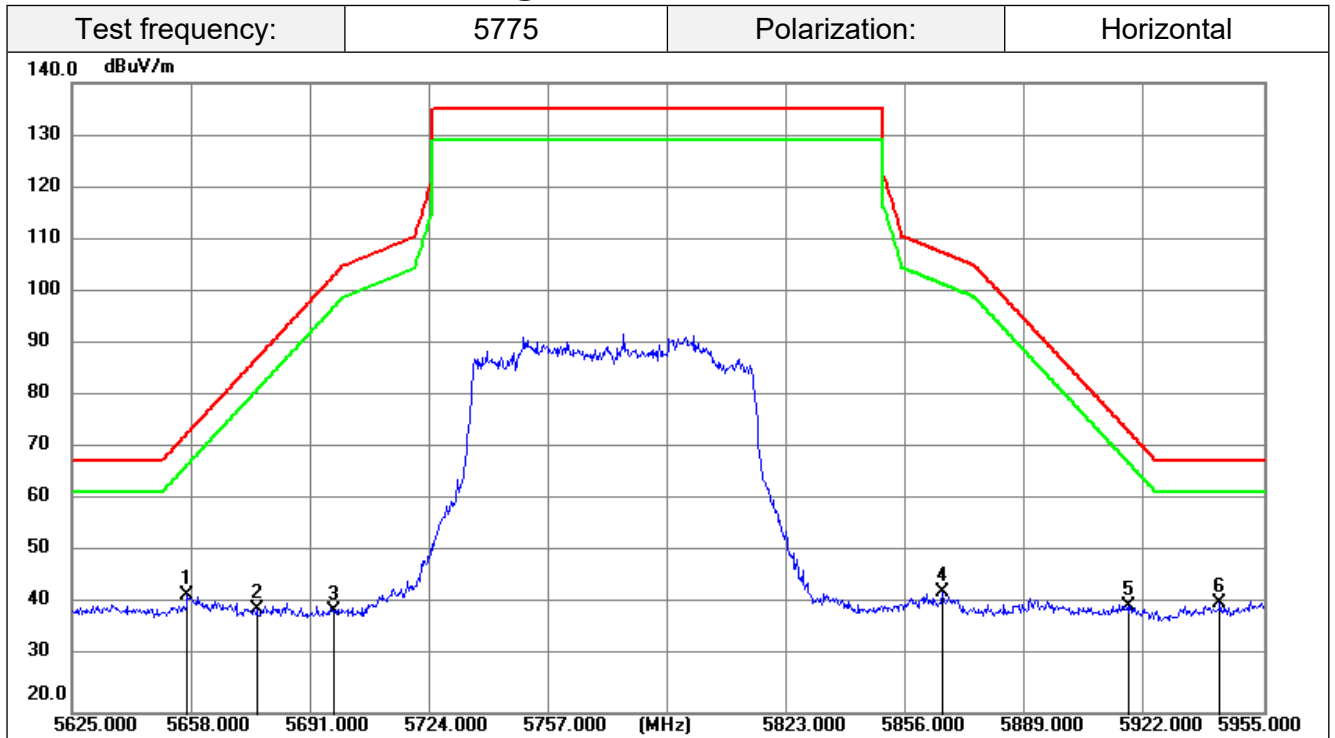
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5645.460        | 44.00            | -2.09          | 41.91           | 68.20          | -26.29      | peak   |
| 2   | 5667.900        | 43.04            | -2.07          | 40.97           | 81.45          | -40.48      | peak   |
| 3   | 5688.690        | 41.88            | -2.04          | 39.84           | 96.83          | -56.99      | peak   |
| 4   | 5870.190        | 41.45            | -1.81          | 39.64           | 106.55         | -66.91      | peak   |
| 5   | 5879.430        | 43.64            | -1.80          | 41.84           | 101.92         | -60.08      | peak   |
| 6   | 5906.820        | 42.09            | -1.77          | 40.32           | 81.65          | -41.33      | peak   |







### U-NII 3 @ 802.11ac(VHT80) MIMO mode



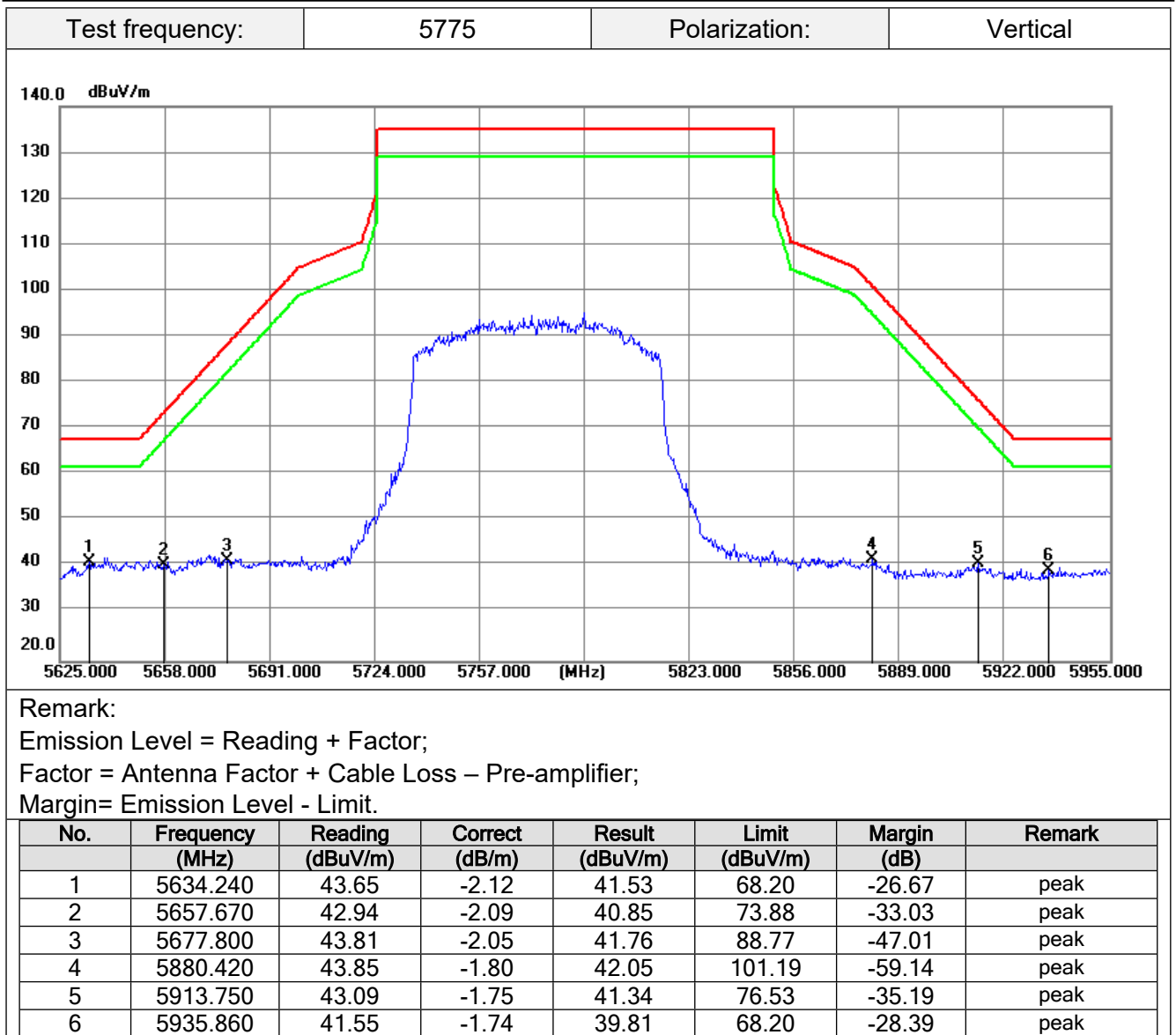
Remark:

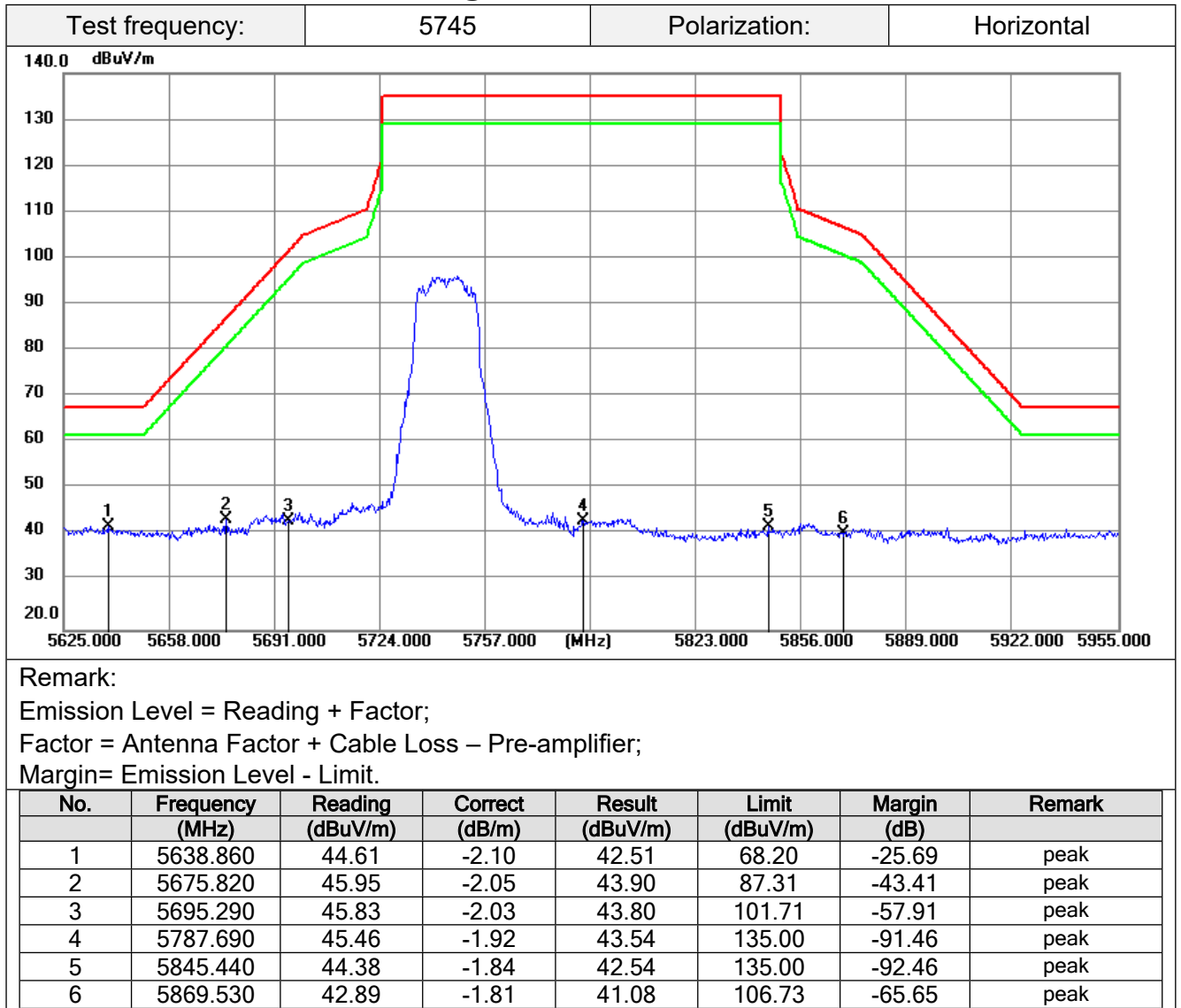
Emission Level = Reading + Factor;

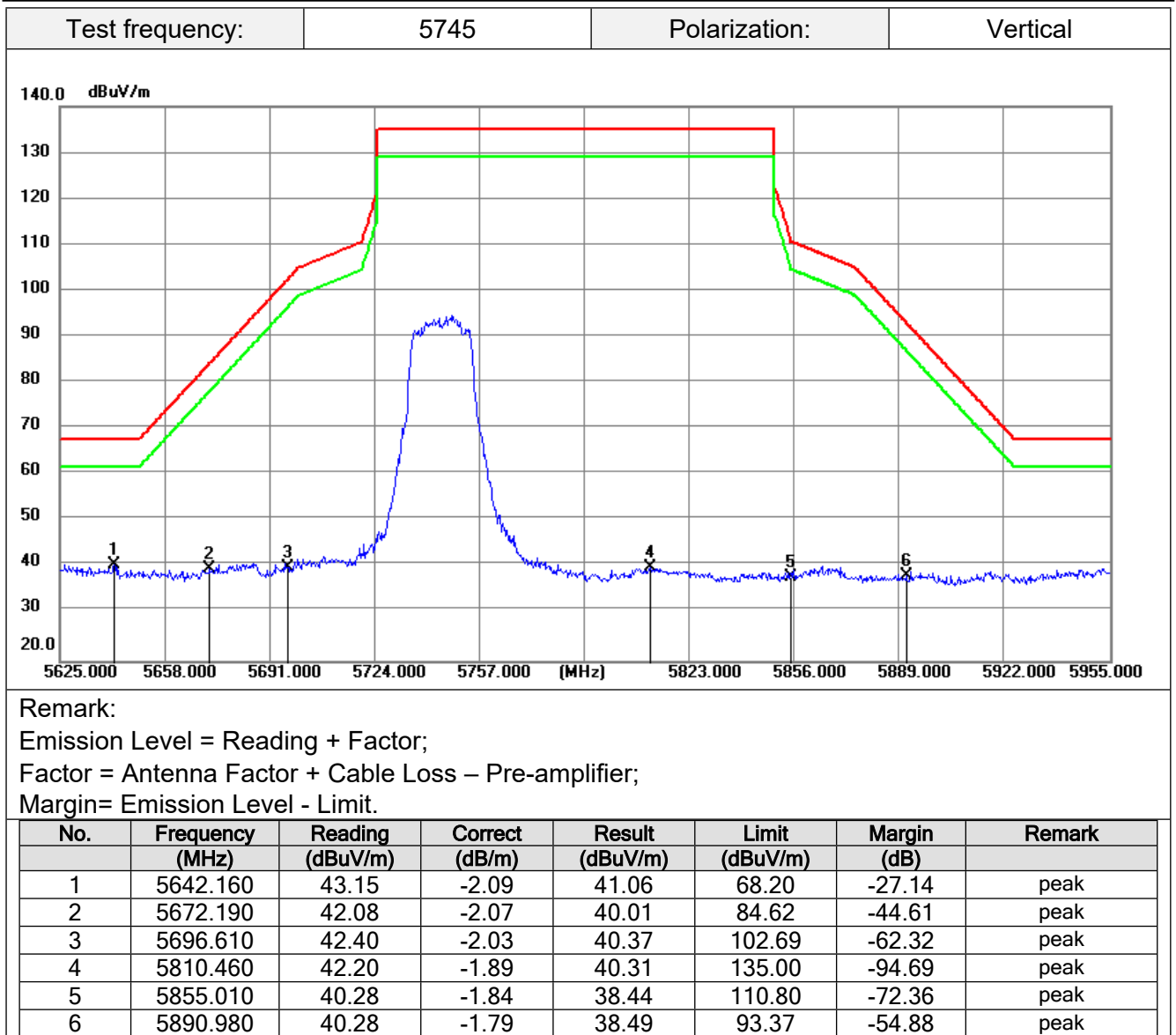
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

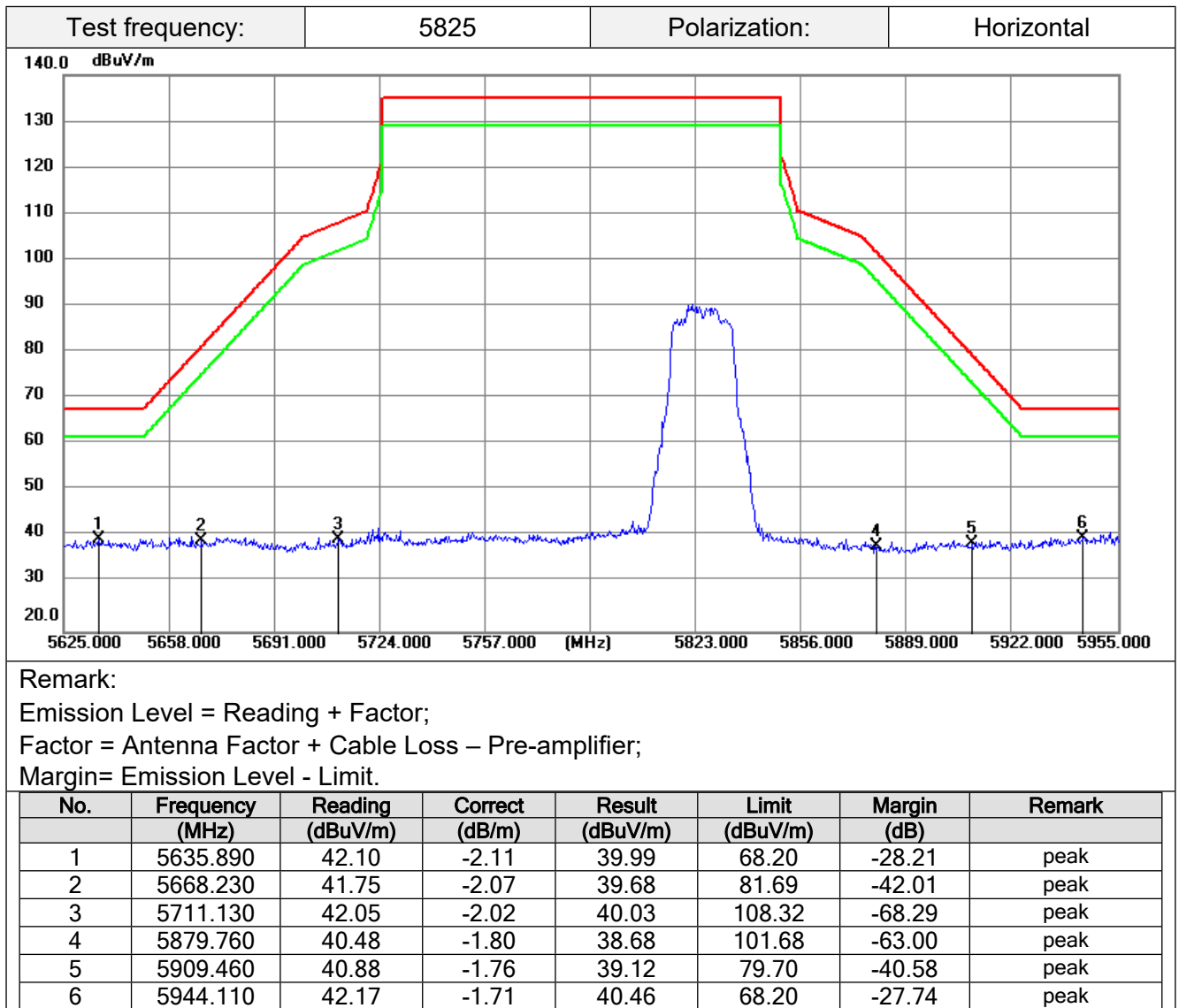
Margin= Emission Level - Limit.

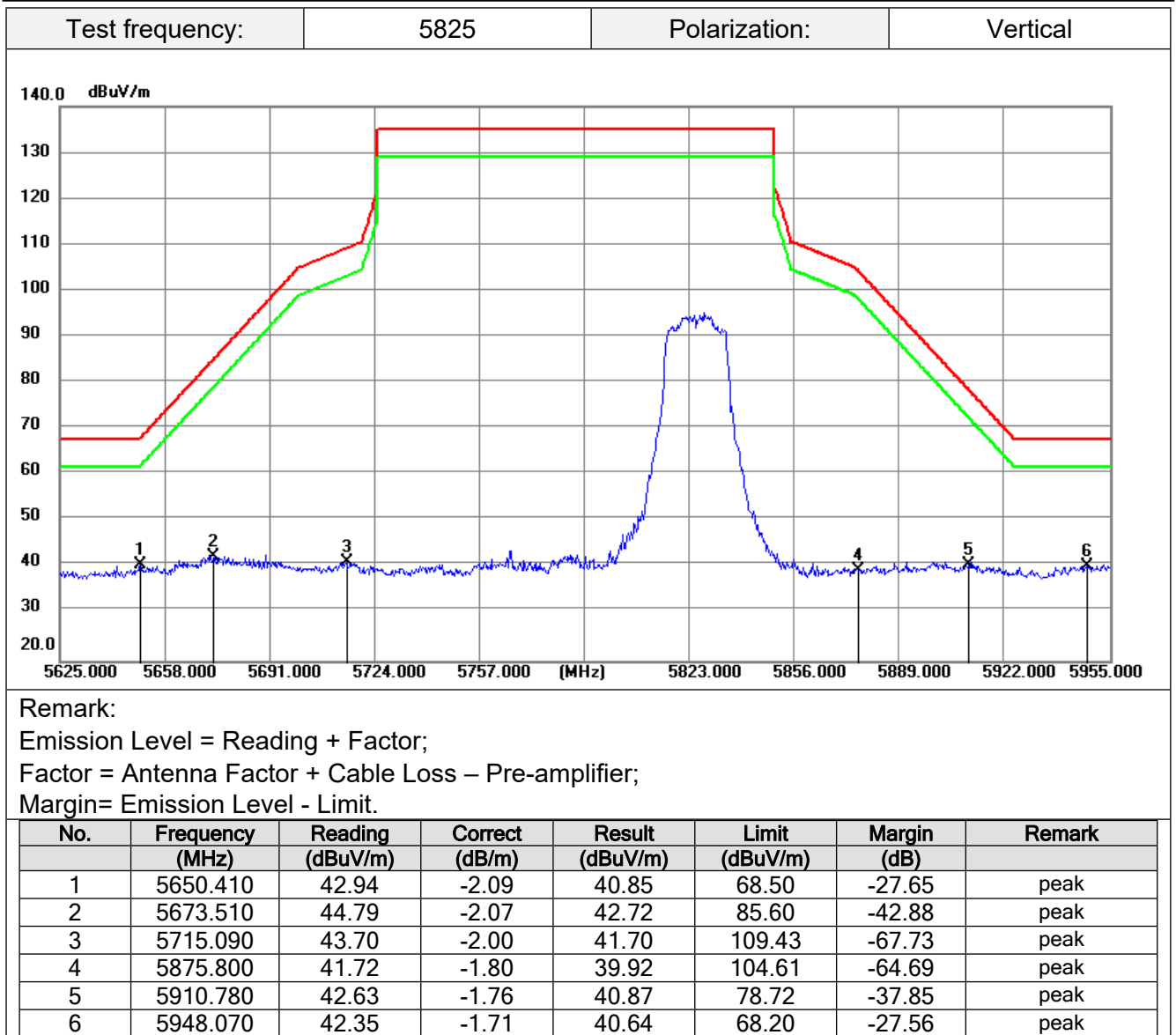
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5657.010        | 44.64            | -2.09          | 42.55           | 73.39          | -30.84      | peak   |
| 2   | 5676.150        | 41.98            | -2.05          | 39.93           | 87.55          | -47.62      | peak   |
| 3   | 5697.600        | 41.45            | -2.03          | 39.42           | 103.42         | -64.00      | peak   |
| 4   | 5865.900        | 45.03            | -1.81          | 43.22           | 107.75         | -64.53      | peak   |
| 5   | 5917.380        | 42.18            | -1.75          | 40.43           | 73.84          | -33.41      | peak   |
| 6   | 5942.790        | 42.59            | -1.71          | 40.88           | 68.20          | -27.32      | peak   |



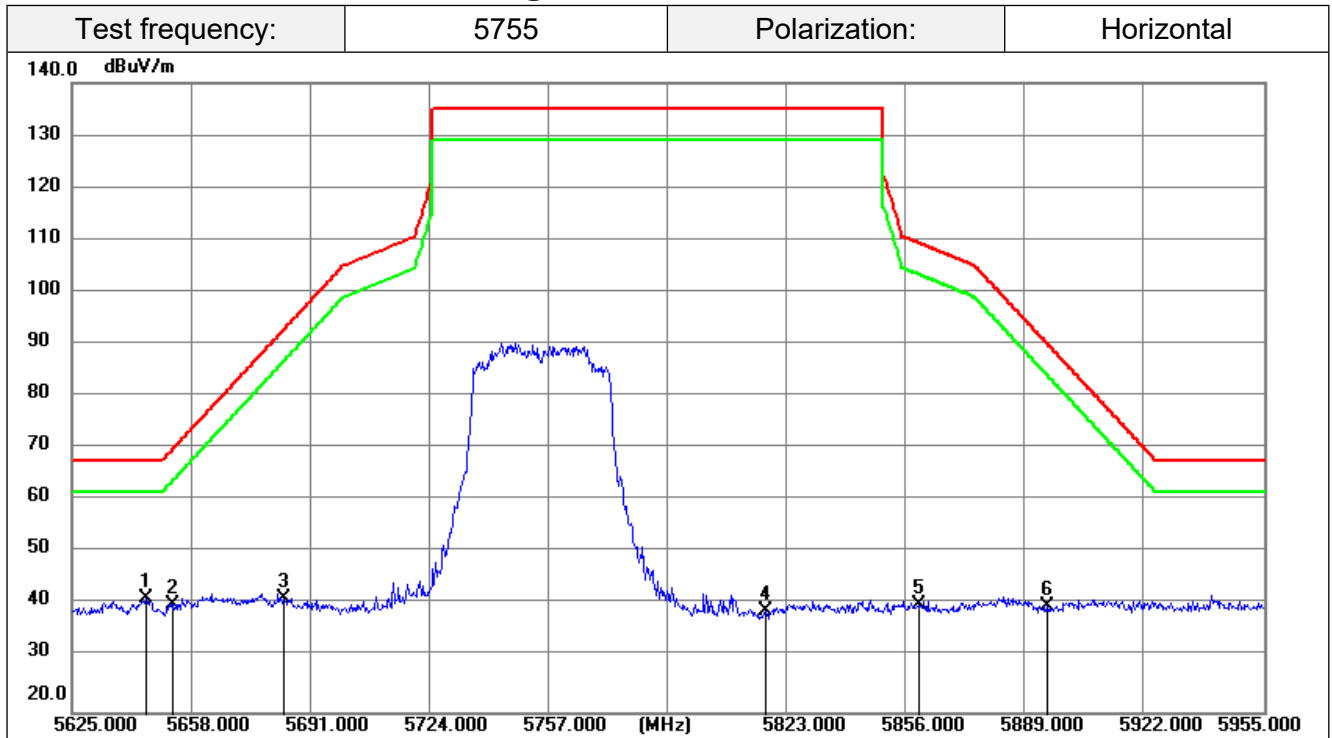
**U-NII 3 @ 802.11ax(HE20) MIMO mode**








### U-NII 3 @ 802.11ax(HE40) MIMO mode



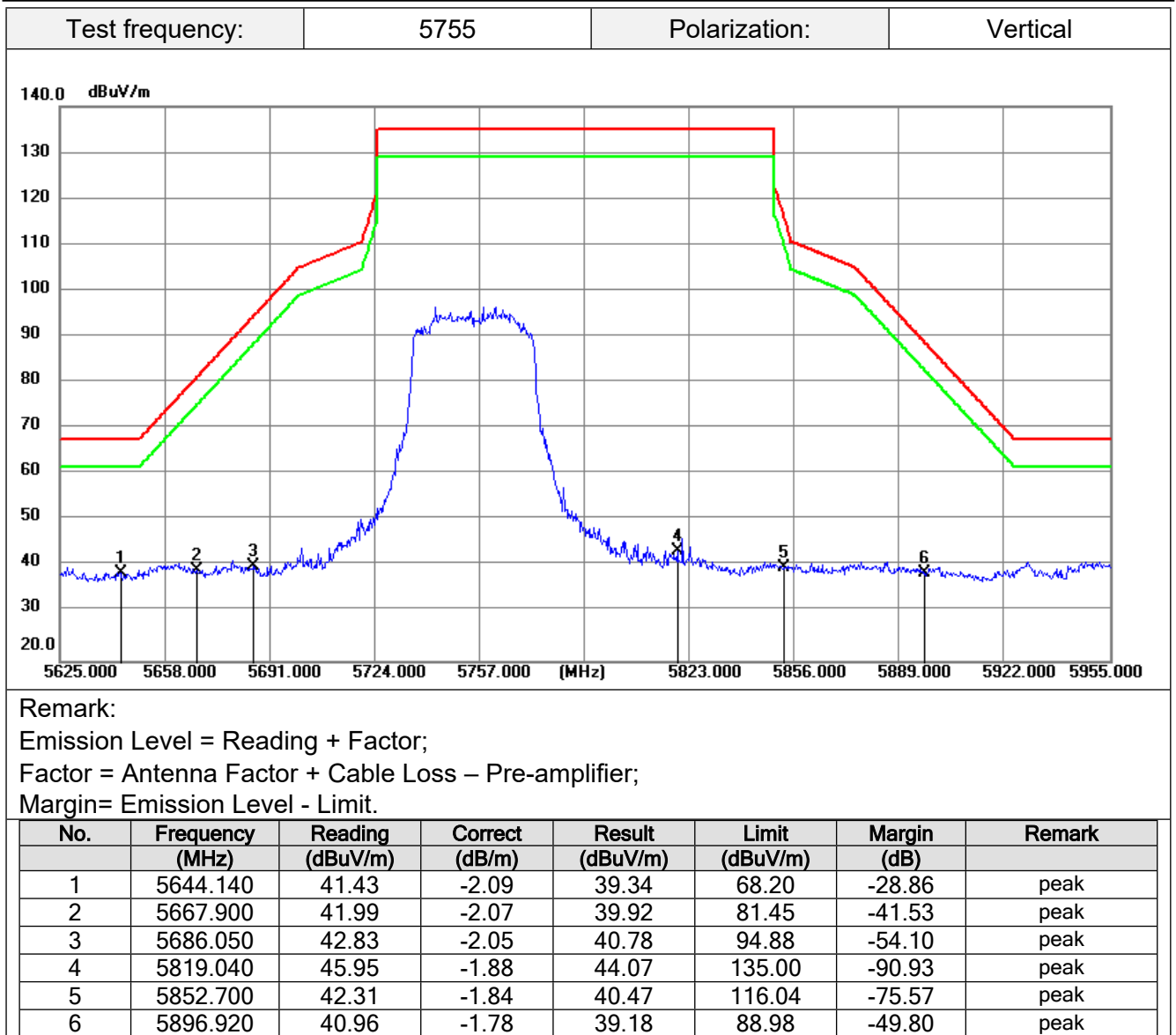
Remark:

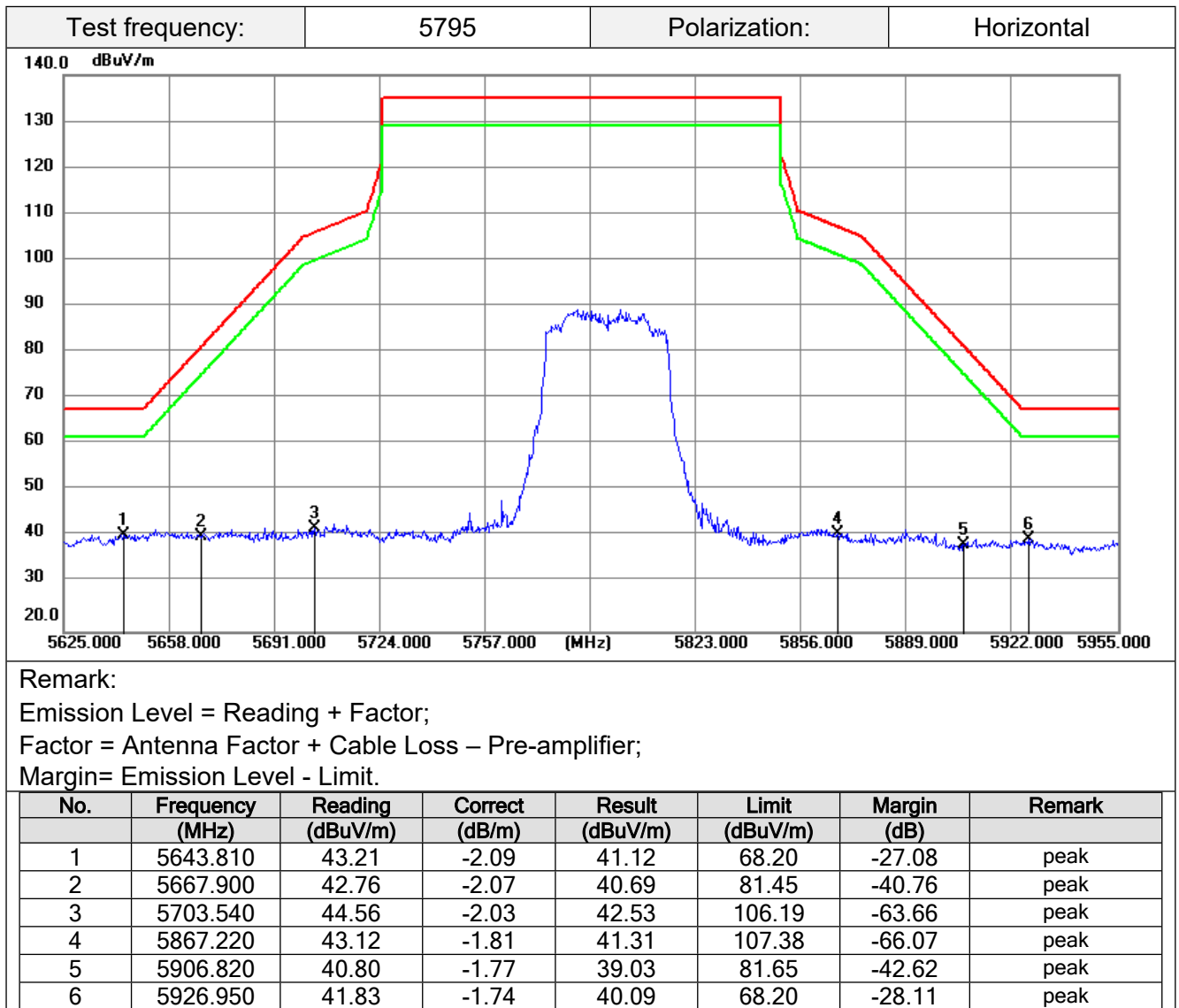
Emission Level = Reading + Factor;

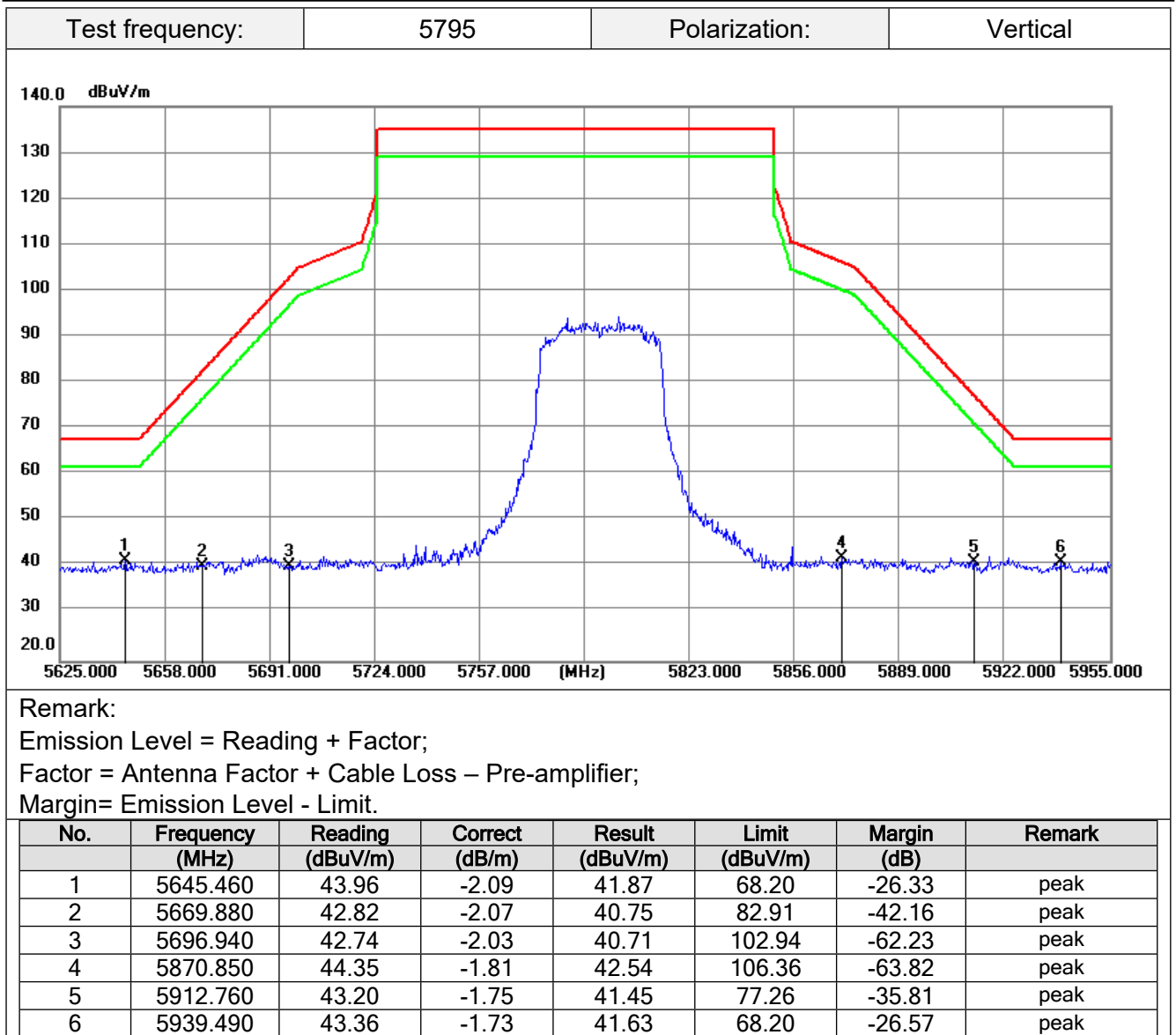
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

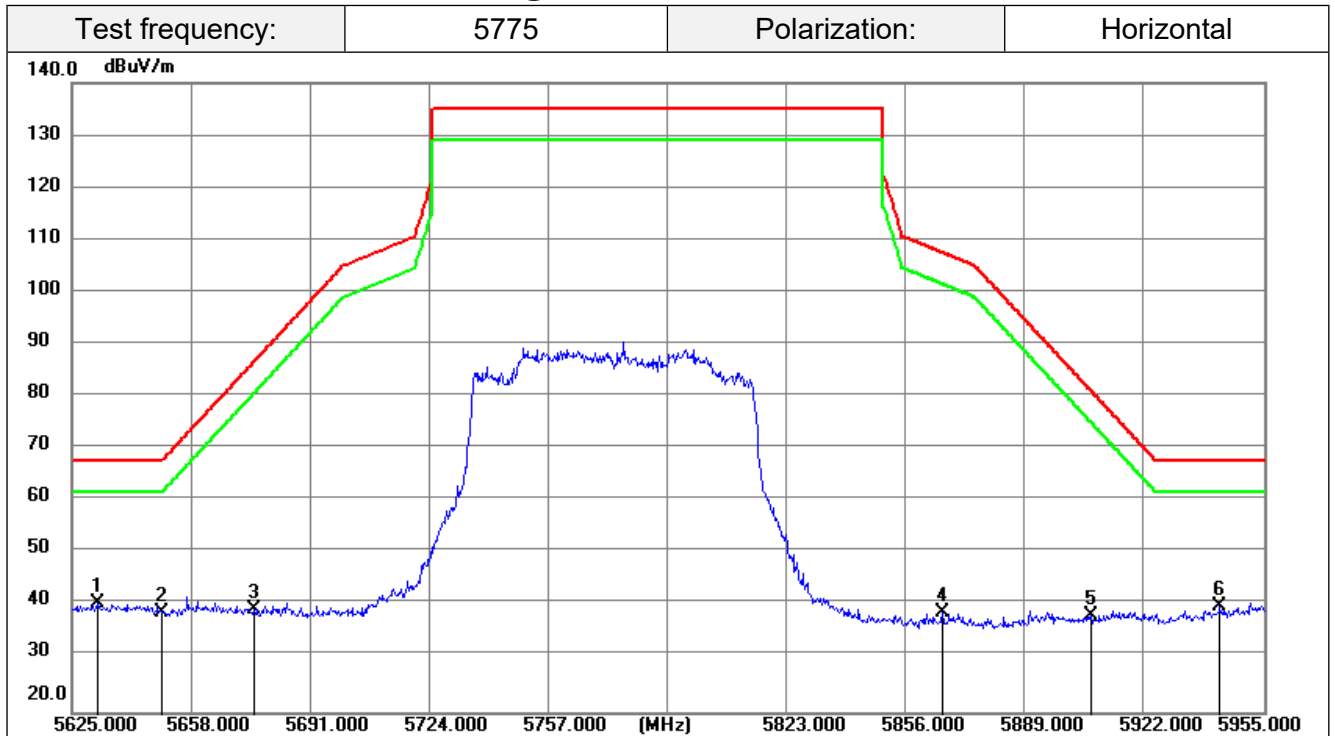
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5645.460        | 59.00            | -2.09          | 56.91           | 68.20          | -11.29      | peak   |
| 2   | 5653.050        | 57.70            | -2.09          | 55.61           | 70.46          | -14.85      | peak   |
| 3   | 5683.740        | 58.97            | -2.05          | 56.92           | 93.17          | -36.25      | peak   |
| 4   | 5817.060        | 56.33            | -1.88          | 54.45           | 135.00         | -80.55      | peak   |
| 5   | 5859.300        | 57.55            | -1.83          | 55.72           | 109.60         | -53.88      | peak   |
| 6   | 5894.940        | 57.21            | -1.78          | 55.43           | 90.44          | -35.01      | peak   |







### U-NII 3 @ 802.11ax(HE80) MIMO mode



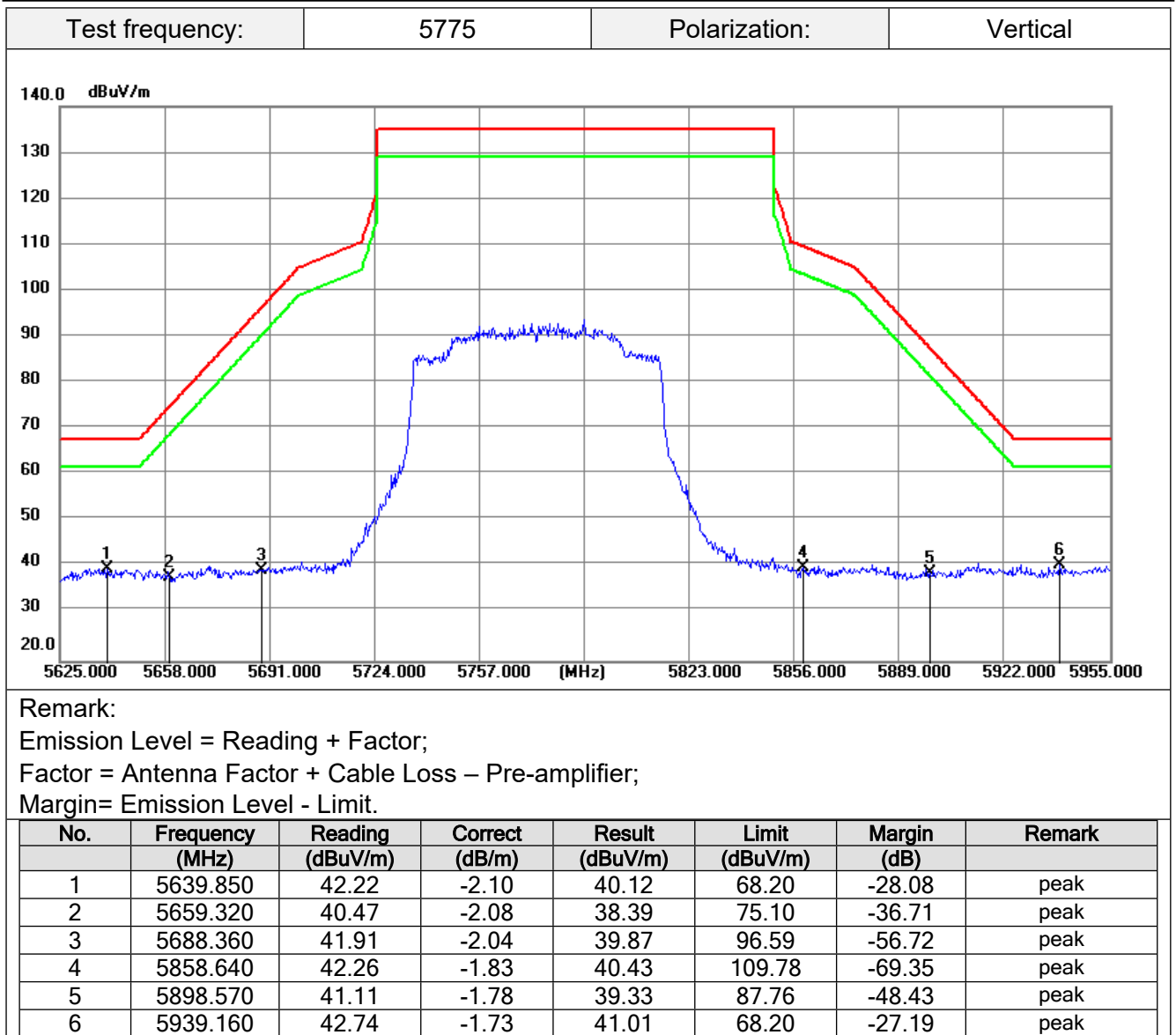
Remark:

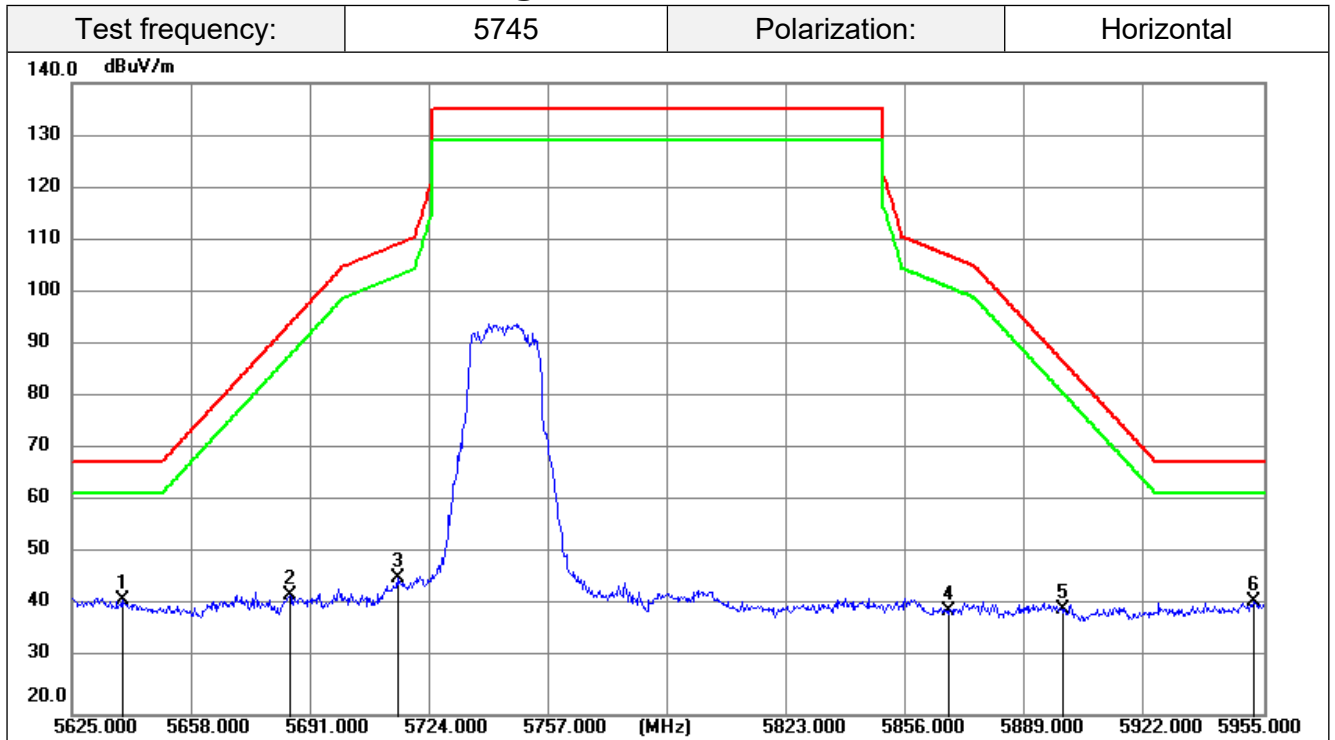
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5631.930        | 43.03            | -2.12          | 40.91           | 68.20          | -27.29      | peak   |
| 2   | 5650.080        | 41.18            | -2.09          | 39.09           | 68.26          | -29.17      | peak   |
| 3   | 5675.490        | 41.71            | -2.05          | 39.66           | 87.06          | -47.40      | peak   |
| 4   | 5865.900        | 41.03            | -1.81          | 39.22           | 107.75         | -68.53      | peak   |
| 5   | 5907.150        | 40.46            | -1.77          | 38.69           | 81.41          | -42.72      | peak   |
| 6   | 5942.790        | 42.09            | -1.71          | 40.38           | 68.20          | -27.82      | peak   |



**U-NII 3 @ 802.11be(EHT20) MIMO mode**


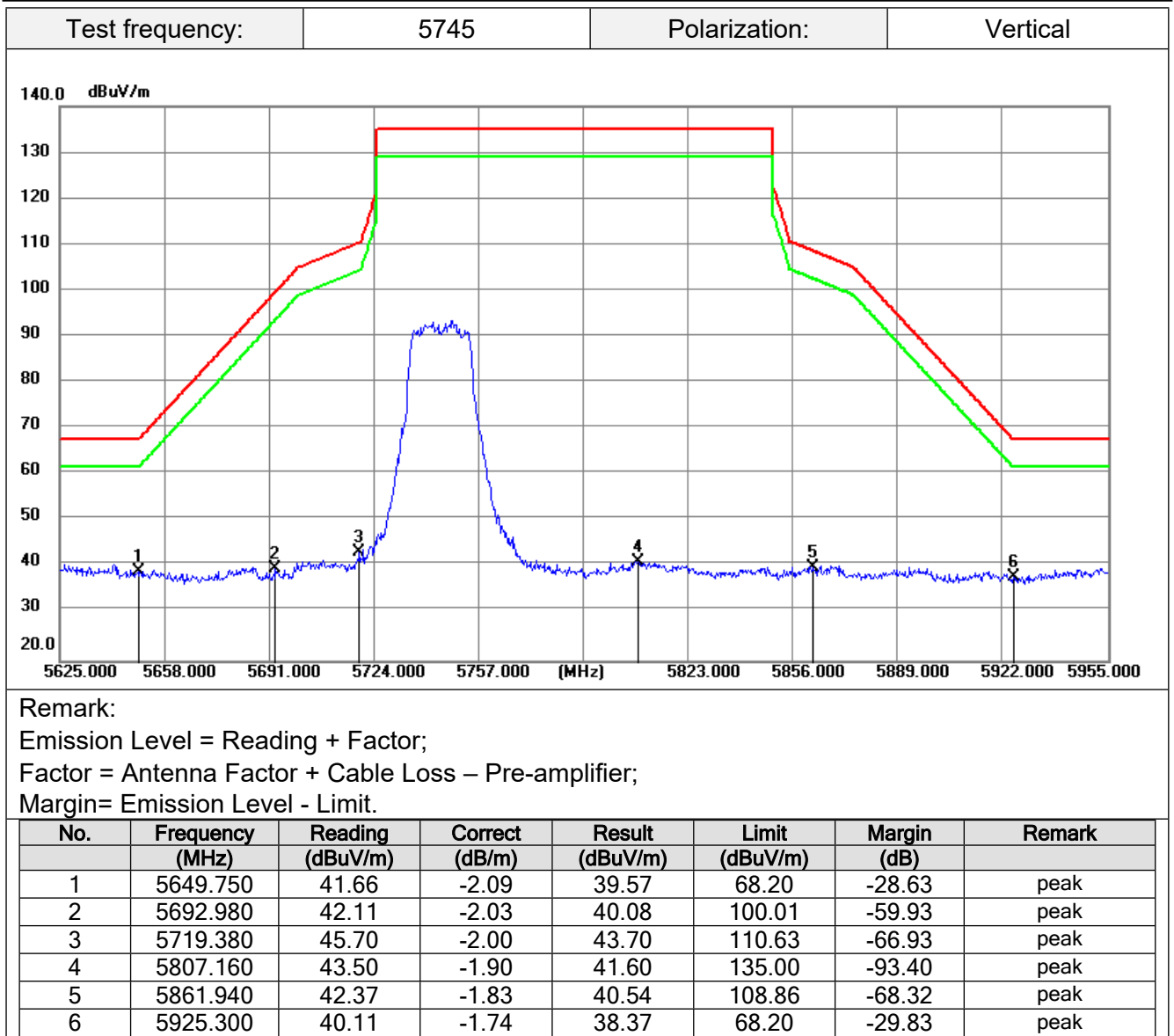
Remark:

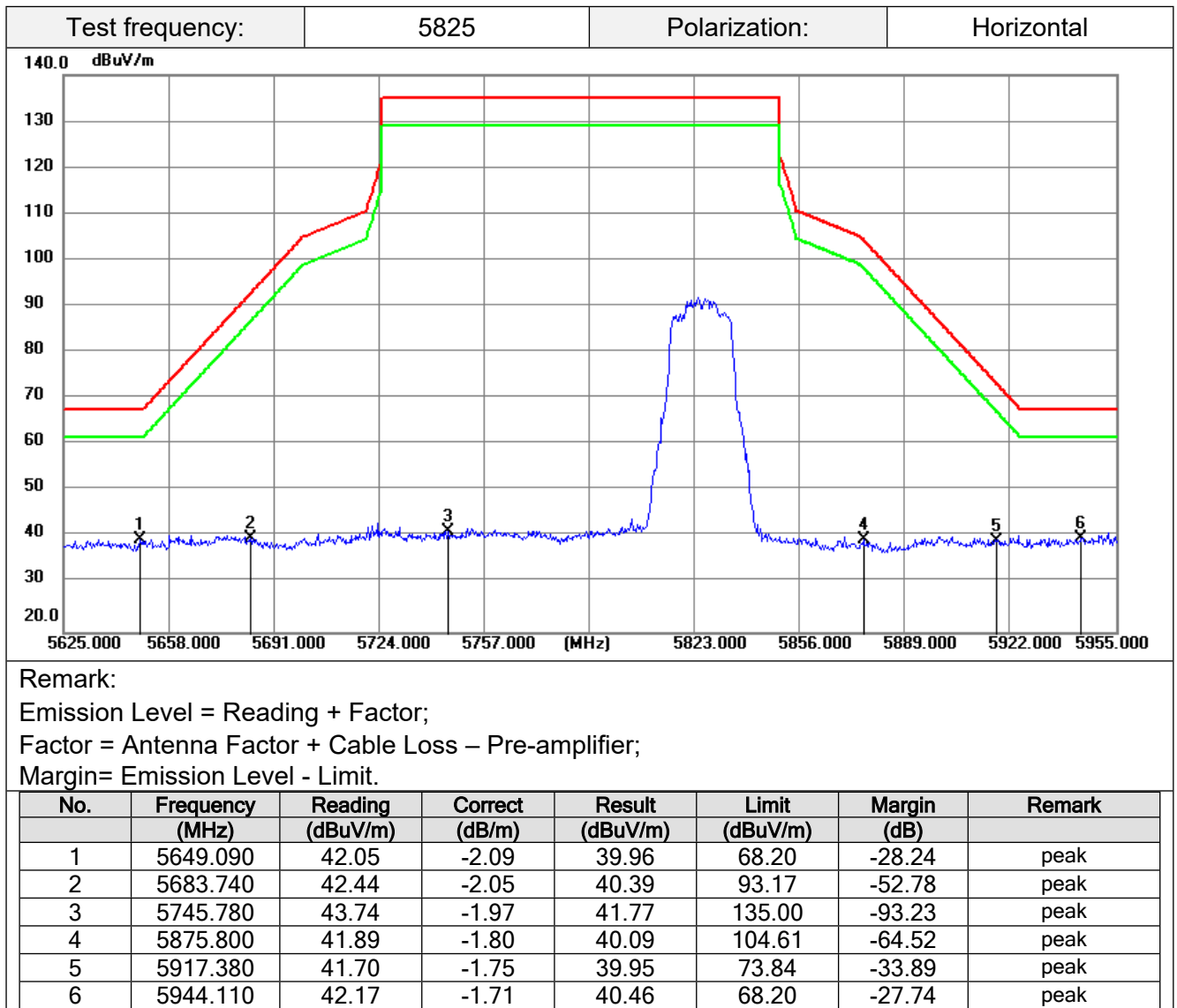
Emission Level = Reading + Factor;

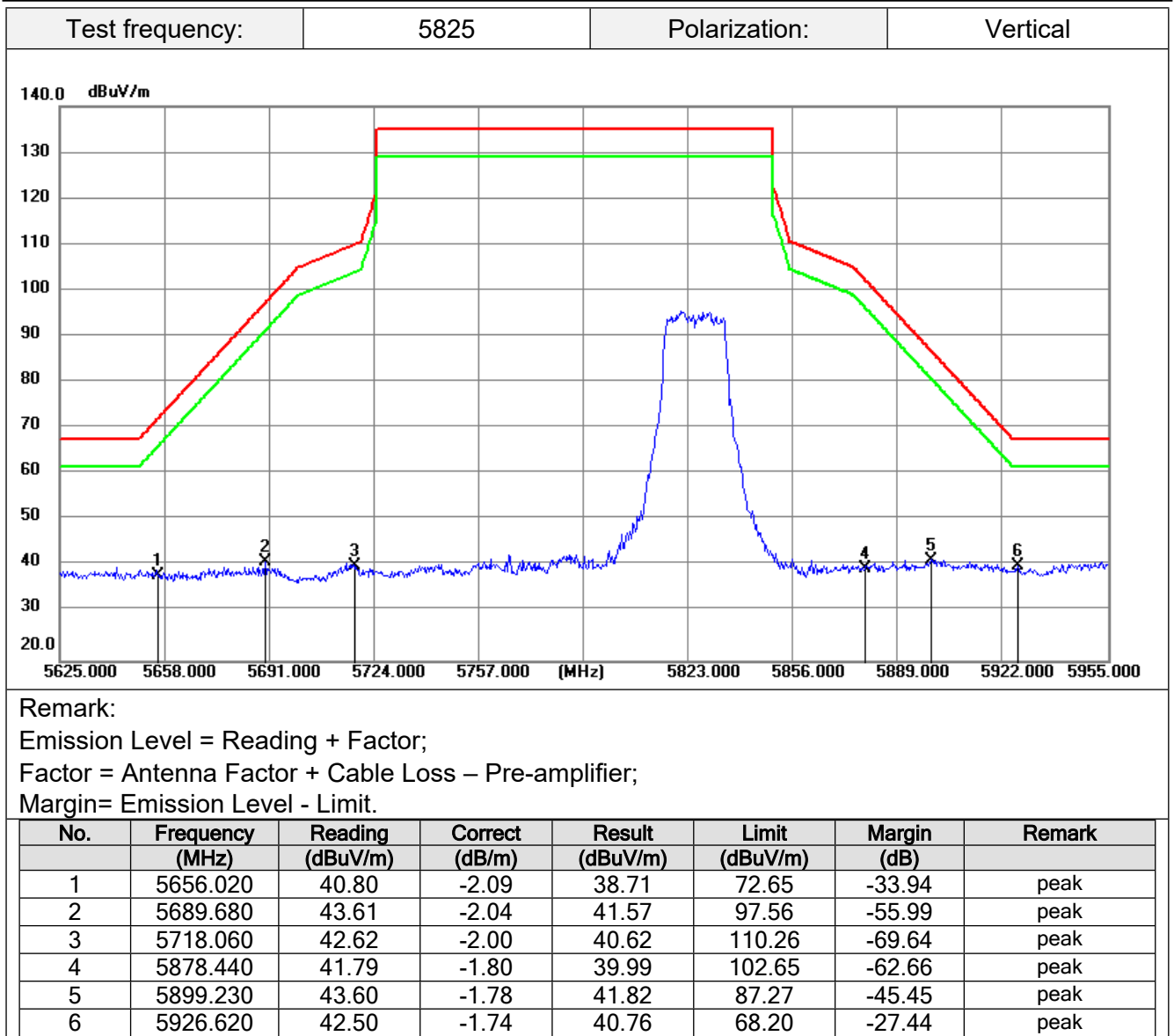
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

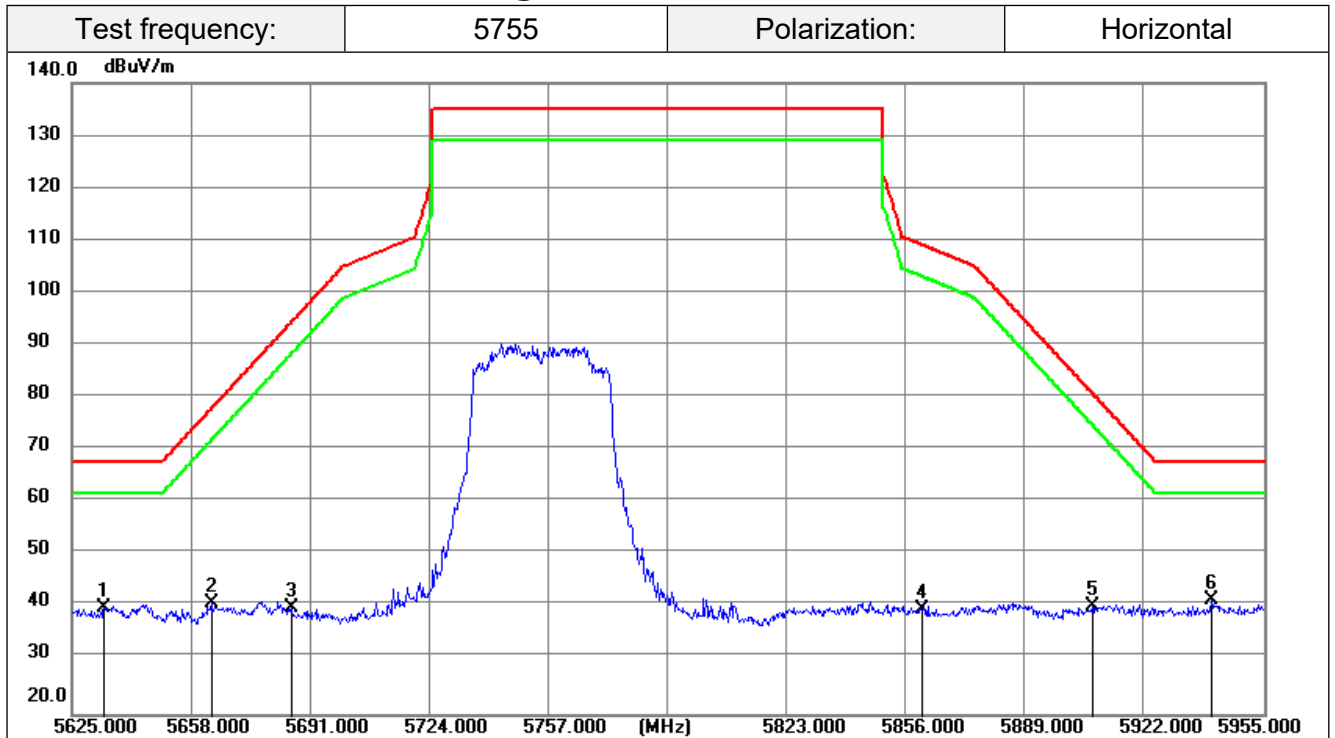
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5638.860           | 44.11               | -2.10             | 42.01              | 68.20             | -26.19         | peak   |
| 2   | 5685.390           | 44.93               | -2.05             | 42.88              | 94.39             | -51.51         | peak   |
| 3   | 5715.090           | 48.04               | -2.00             | 46.04              | 109.43            | -63.39         | peak   |
| 4   | 5867.880           | 41.60               | -1.81             | 39.79              | 107.19            | -67.40         | peak   |
| 5   | 5899.230           | 41.99               | -1.78             | 40.21              | 87.27             | -47.06         | peak   |
| 6   | 5952.360           | 43.31               | -1.71             | 41.60              | 68.20             | -26.60         | peak   |







### U-NII 3 @ 802.11be(EHT40) MIMO mode



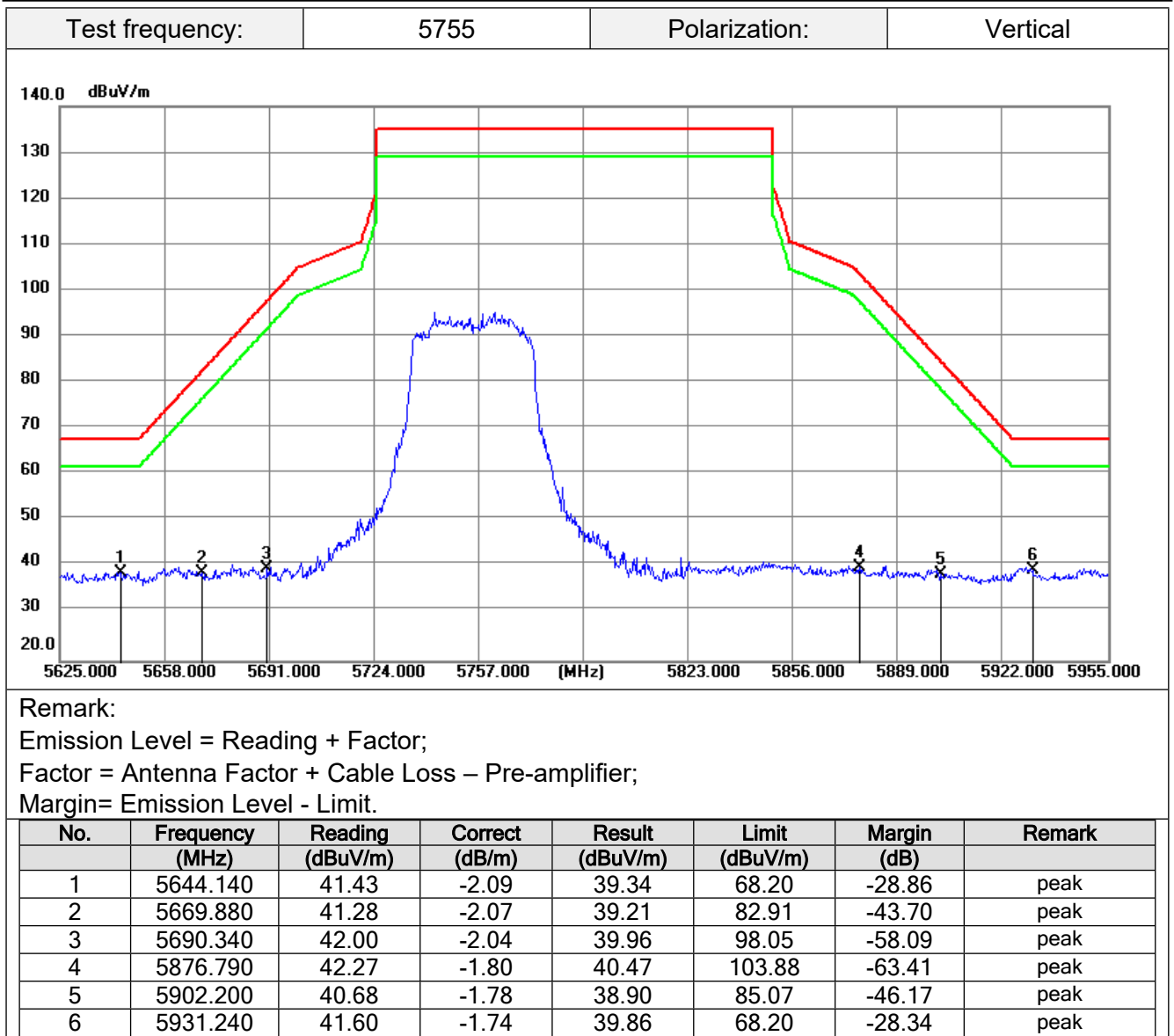
Remark:

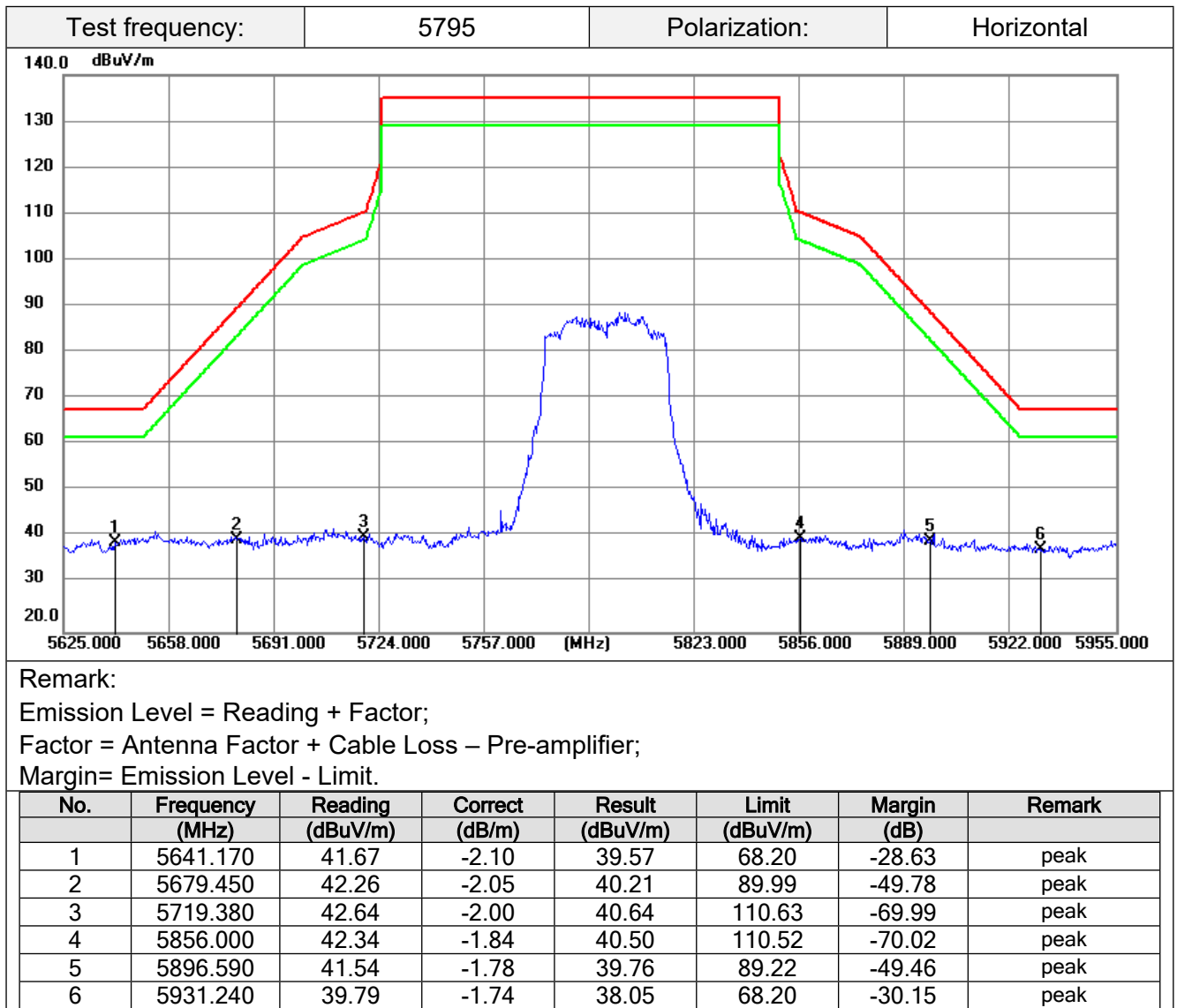
Emission Level = Reading + Factor;

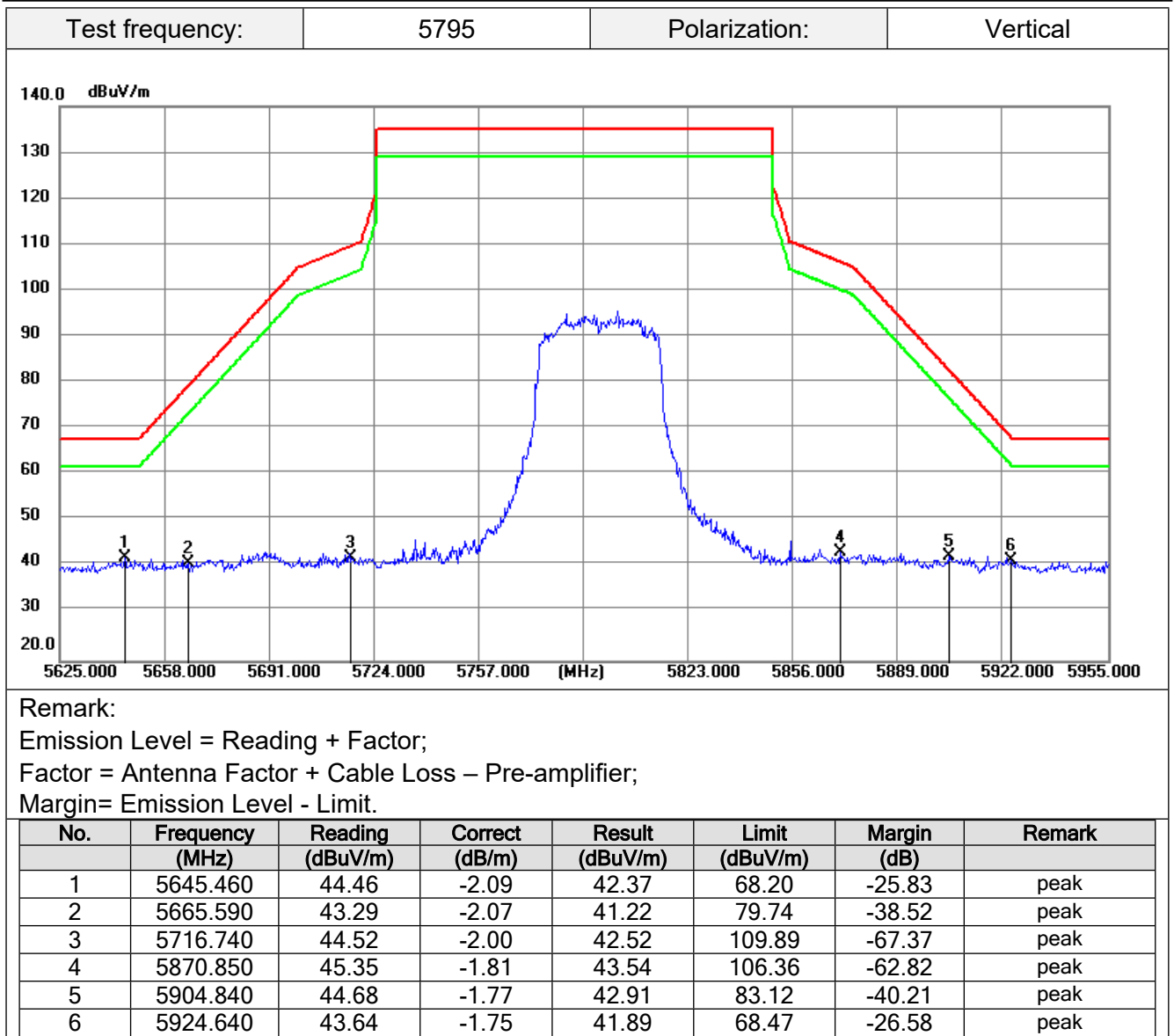
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

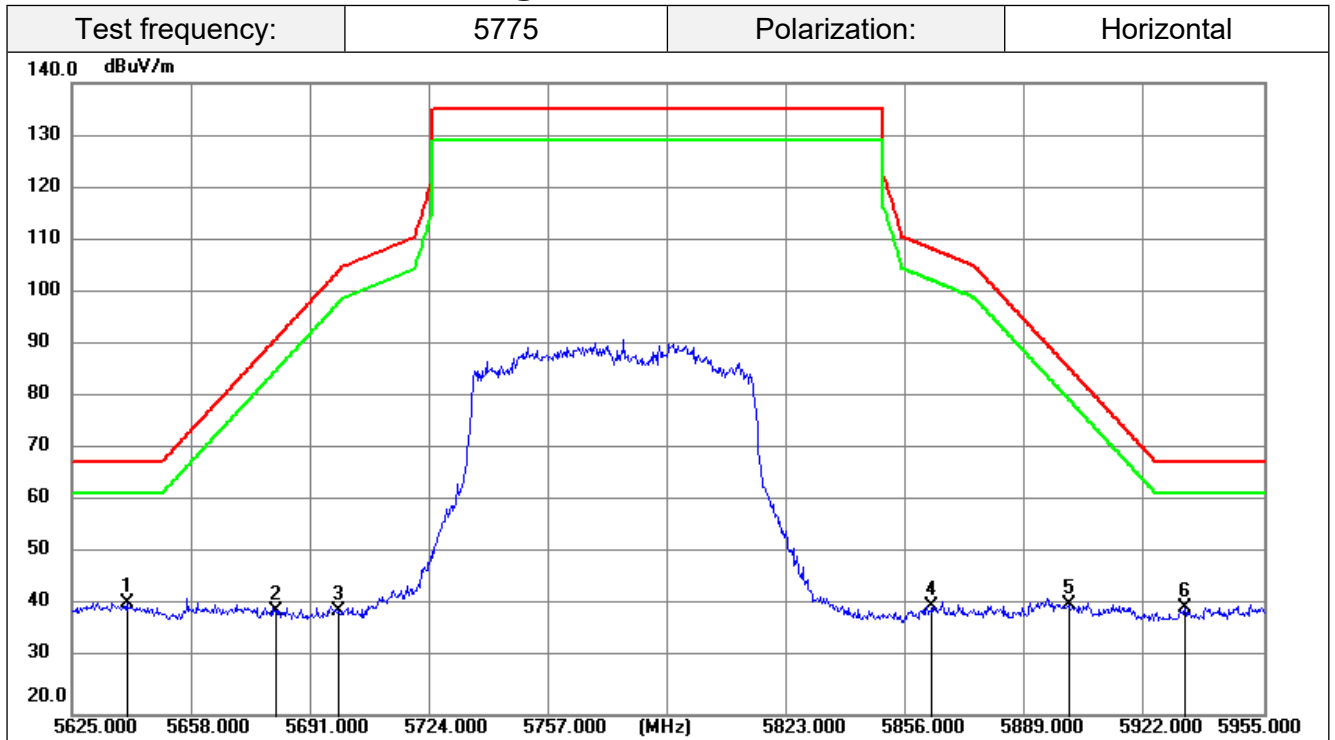
Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5633.910        | 42.59            | -2.12          | 40.47           | 68.20          | -27.73      | peak   |
| 2   | 5663.610        | 43.33            | -2.07          | 41.26           | 78.27          | -37.01      | peak   |
| 3   | 5685.720        | 42.30            | -2.05          | 40.25           | 94.63          | -54.38      | peak   |
| 4   | 5860.290        | 41.81            | -1.83          | 39.98           | 109.32         | -69.34      | peak   |
| 5   | 5907.480        | 42.45            | -1.77          | 40.68           | 81.16          | -40.48      | peak   |
| 6   | 5940.480        | 43.61            | -1.73          | 41.88           | 68.20          | -26.32      | peak   |







**U-NII 3 @ 802.11be(EHT80) MIMO mode**


Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

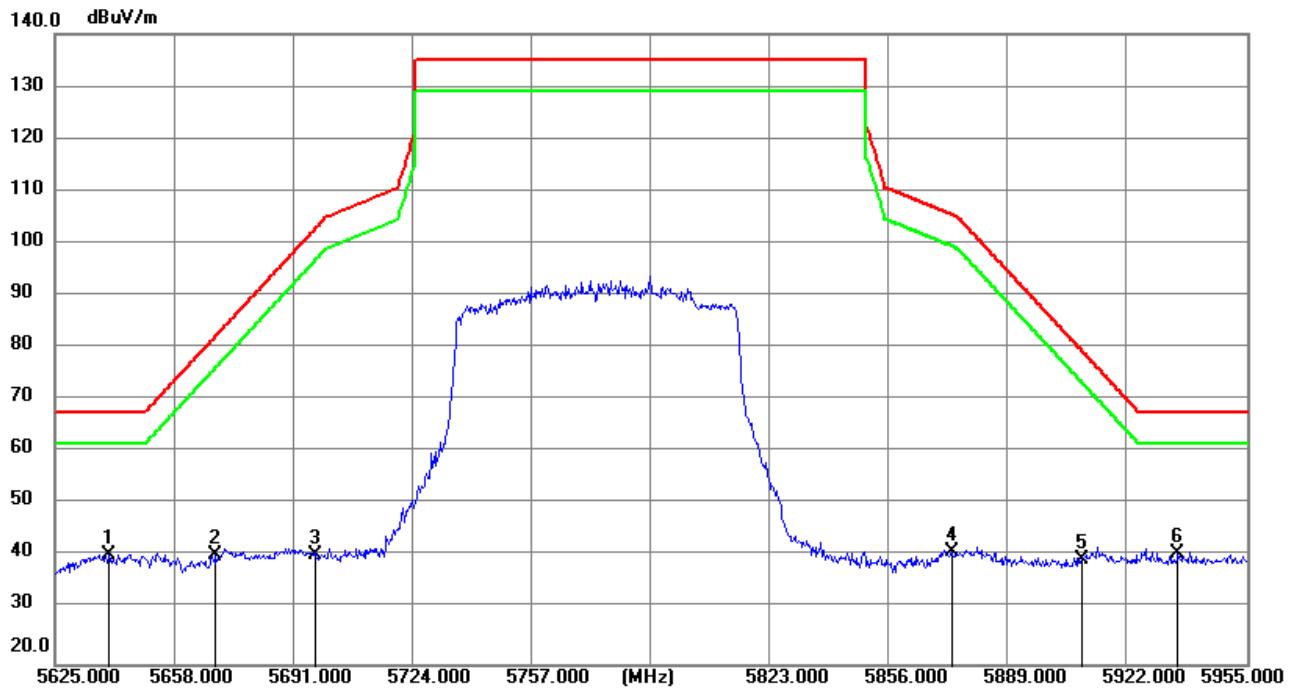
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5640.180        | 43.35            | -2.10          | 41.25           | 68.20          | -26.95      | peak   |
| 2   | 5681.430        | 41.92            | -2.05          | 39.87           | 91.46          | -51.59      | peak   |
| 3   | 5698.920        | 41.96            | -2.03          | 39.93           | 104.40         | -64.47      | peak   |
| 4   | 5863.260        | 42.59            | -1.82          | 40.77           | 108.49         | -67.72      | peak   |
| 5   | 5900.880        | 42.78            | -1.78          | 41.00           | 86.05          | -45.05      | peak   |
| 6   | 5933.220        | 42.24            | -1.74          | 40.50           | 68.20          | -27.70      | peak   |

Test frequency:

5775

Polarization:

Vertical



Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5639.850        | 43.22            | -2.10          | 41.12           | 68.20          | -27.08      | peak   |
| 2   | 5669.550        | 43.07            | -2.07          | 41.00           | 82.67          | -41.67      | peak   |
| 3   | 5697.270        | 43.15            | -2.03          | 41.12           | 103.18         | -62.06      | peak   |
| 4   | 5873.160        | 43.50            | -1.81          | 41.69           | 105.72         | -64.03      | peak   |
| 5   | 5909.460        | 41.98            | -1.76          | 40.22           | 79.70          | -39.48      | peak   |
| 6   | 5935.860        | 43.05            | -1.74          | 41.31           | 68.20          | -26.89      | peak   |

### **3.3 Antenna Requirement**

#### **Standard Applicable**

**For intentional device, according to FCC 47 CFR Section 15.203:**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **Test Result:**

The device used 50Ω FPC Antenna, the maximum gain of antenna is 3.85dBi. There is no consideration of replacement the antenna.

## **4 Test Setup Photographs of EUT**

Please refer to separated files for Test Setup Photos of the EUT.

## **5 External Photographs of EUT**

Please refer to separated files for External Photos of the EUT.

## **6 Internal Photographs of EUT**

Please refer to separated files for Internal Photos of the EUT.

\*\*\*\*\* **End of Report** \*\*\*\*\*