# TEST REPORT

| | |
|---|---|
| **Application No.:** | GZCR2109021139AT |
| **Applicant:** | PAX Technology Limited |
| **Address of Applicant:** | Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong, China |
| **Manufacturer:** | PAX Computer Technology(Shenzhen) Co., Ltd. |
| **Address of Manufacturer:** | 4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C. |
| **Equipment Under Test (EUT):** | |
| **EUT Name:** | Mobile Payment Cell Phone |
| **Model No.:** | M50 |
| **Trade Mark:** | PAX |
| **Standard(s) :** | 47 CFR Part 15, Subpart E 15.407 |
| **Date of Receipt:** | 2021-09-16 |
| **Date of Test:** | 2021-09-17 to 2021-10-12 |
| **Date of Issue:** | 2021-10-18 |
| **Test Result:** | **Pass*** |

* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian
EMC Laboratory Manager

| Revision Record | | | | |
|---|---|---|---|---|
| **Version** | **Chapter** | **Date** | **Modifier** | **Remark** |
| *01* | | *2021-10-18* | | *Original* |
| | | | | |
| | | | | |

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|---|---|---|---|---|
| **Authorized for issue by** | | | | |
| | | **Curry Wu/Project Engineer** | | |
| | | **Ricky Liu/Reviewer** | | |

# 2 Test Summary

| Radio Spectrum Matter Part | | | | |
|---|---|---|---|---|
| **Item** | **Standard** | **Method** | **Requirement** | **Result** |
| Radiated Emissions (below 1GHz) | 47 CFR Part 15, Subpart E 15.407 | KDB 789033 D02 II G | 47 CFR Part 15, Subpart C 15.209 & 15.407(b) | Pass |
| Radiated Emissions which fall in the restricted bands | | KDB 789033 D02 II G | 47 CFR Part 15, Subpart C 15.209 & 15.407(b) | Pass |
| Radiated Emissions (above 1GHz) | | KDB 789033 D02 II G | 47 CFR Part 15, Subpart C 15.209 & 15.407(b) | Pass |

**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Remark: This report is only valid with SZEM201201302805, by comparison with previous report, this report just changed as below:

1. The middle frame changed from rounded corners to right angles.
2. Power key and volume key position changed.
3. The material of battery cover changed from plastic to glass.

Considering the difference above, Radiated Emissions which fall in the restricted bands & Radiated Spurious Emissions were re-tested.

For other test data, please refer to previous report.

# 3 Contents

# 4 General Information

## 4.1 Details of E.U.T.

| | |
|---|---|
| Power supply: | DC3.85V by li-ion battery(3020mAh)<br>Recharged by power adapter<br>Adapter M/N: SW-0983<br>Adapter input: AC100-240V, 50/60Hz, 0.5A<br>Adapter output: DC5V/2A |
| Cable(s): | USB type C cable: 1m shielded cable without ferrite core |
| Operation Frequency (20MHz): | U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-2C: 5500-5700MHz; U-NII-3: 5745-5825MHz |
| Operation Frequency (40MHz): | U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-2C: 5510-5670MHz; U-NII-3: 5755-5795MHz |
| Operation Frequency (80MHz): | U-NII-1: 5210MHz; U-NII-2A: 5290MHz; U-NII-2C: 5530-5610MHz; U-NII-3: 5775MHz |
| Modulation Type: | 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) |
| Channel Spacing: | 802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz |
| DFS Function: | Slave without Radar detection |
| TPC Function: | Without TPC function |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 1dBi declared by applicant |
| Firmware Version: | 15.1.01 |
| Hardware Version: | M50 |
| Testing Software: | Type in *#*#3646633#*#* in the dial display to enter engineering mode |
| SN | 2250000695 |
| Power Setting: | 14.5dBm for 802.11a/n20/ac20, 13dBm for 802.11n40/ac40/ac80 mode, can not be changed by user. |

## 4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---|---|---|---|
| -- | -- | -- | -- |
| The EUT has been tested as an independent unit. | | | |

## 4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|---|
| Radiated Emissions (below 1GHz) | 5.06dB （30MHz-1GHz；3m）<br>4.46dB （30MHz-1GHz；10m） |
| Radiated Emissions which fall in the restricted bands | ± 4.5dB (below 1GHz); ± 4.8dB (above 1GHz); |
| Radiated Emissions (above 1GHz) | 5.08 dB (1-6GHz); 5.14 (above 6 GHz) |

## 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

## 4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None

# 5 Equipment List

| Radiated Emissions (below 1GHz) | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2020-09-09 | 2022-09-08 |
| Trilog Broadband Antenna(25MHz-1GHz)-Lab | SCHWARZBECK MESS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Amplifier(9kHz-1.3GHz) | HP | 8447F | EMC2065 | 2021-05-19 | 2022-05-18 |
| Active Loop Antenna-RED | ETS-Lindgren | 6502 | EMC2190 | 2019-12-27 | 2021-12-26 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| EMI Test Receiver(1Hz-8GHz) | Rohde & Schwarz | ESW8 | EMC2220 | 2021-05-26 | 2022-05-25 |

| Radiated Emissions which fall in the restricted bands | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| Horn Antenna(14-40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2020-06-28 | 2023-06-27 |
| Chamber cable(Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2020-09-09 | 2022-09-08 |
| Horn Antenna(1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2019-09-25 | 2022-09-24 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |

| Radiated Emissions (above 1GHz) | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| Chamber cable(Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2020-09-09 | 2022-09-08 |
| Horn Antenna(1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2019-09-25 | 2022-09-24 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Notch Filter (5150-5880) | Mico-Tronics | BRM50716 | EMC2168 | 2021-07-29 | 2022-07-28 |
| Horn Antenna(14-40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2020-06-28 | 2023-06-27 |
| Microwave Broadband Preamplifier (18-40GHz) | SCHWARZBECK | BBV 9721 | EMC2172 | 2021-09-08 | 2022-09-07 |

| **General used equipment** | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| DMM | Fluke | 73 | EMC0006 | 2021-07-05 | 2022-07-05 |
| DMM | Fluke | 73 | EMC0007 | 2021-07-05 | 2022-07-05 |

# 6 Radio Spectrum Matter Test Results

## 6.1 Radiated Emissions (below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

* Frequency in CFR 15.205 Restricted Band.

Note: Frequency in non-Restricted Band:

(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:

(i) 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.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 6.1.1 E.U.T. Operation

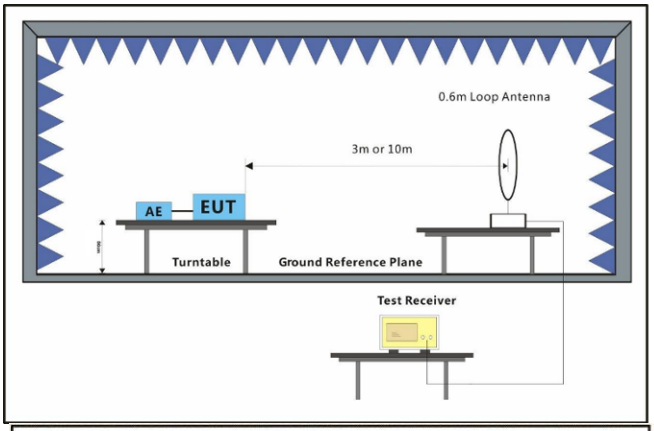
Operating Environment:

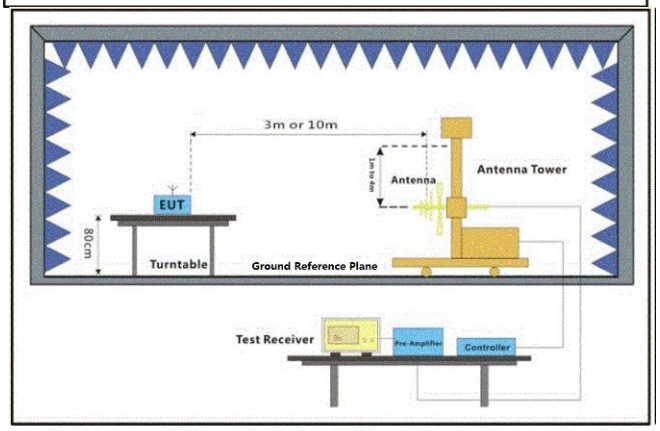
Temperature: 25 °C Humidity: 60 % RH Atmospheric Pressure: 1003 mbar

### 6.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| **Final test** | 11 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |
| **Pre-scan** | 12 | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |
| **Pre-scan** | 13 | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |
| **Pre-scan** | 14 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |

### 6.1.3 Test Setup Diagram




30MHz-1GHz

### 6.1.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

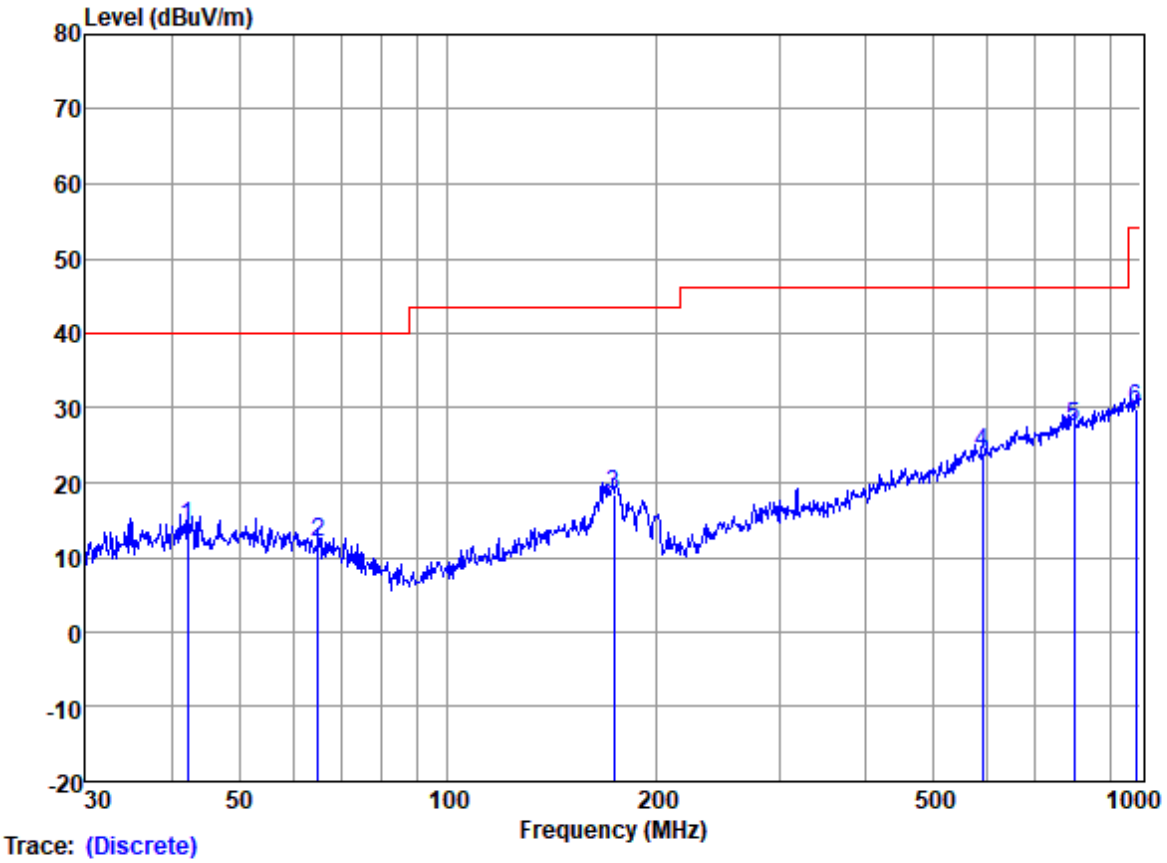
Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.

3. Scan from 9kHz to 1GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test Mode: 11; Polarity: Horizontal

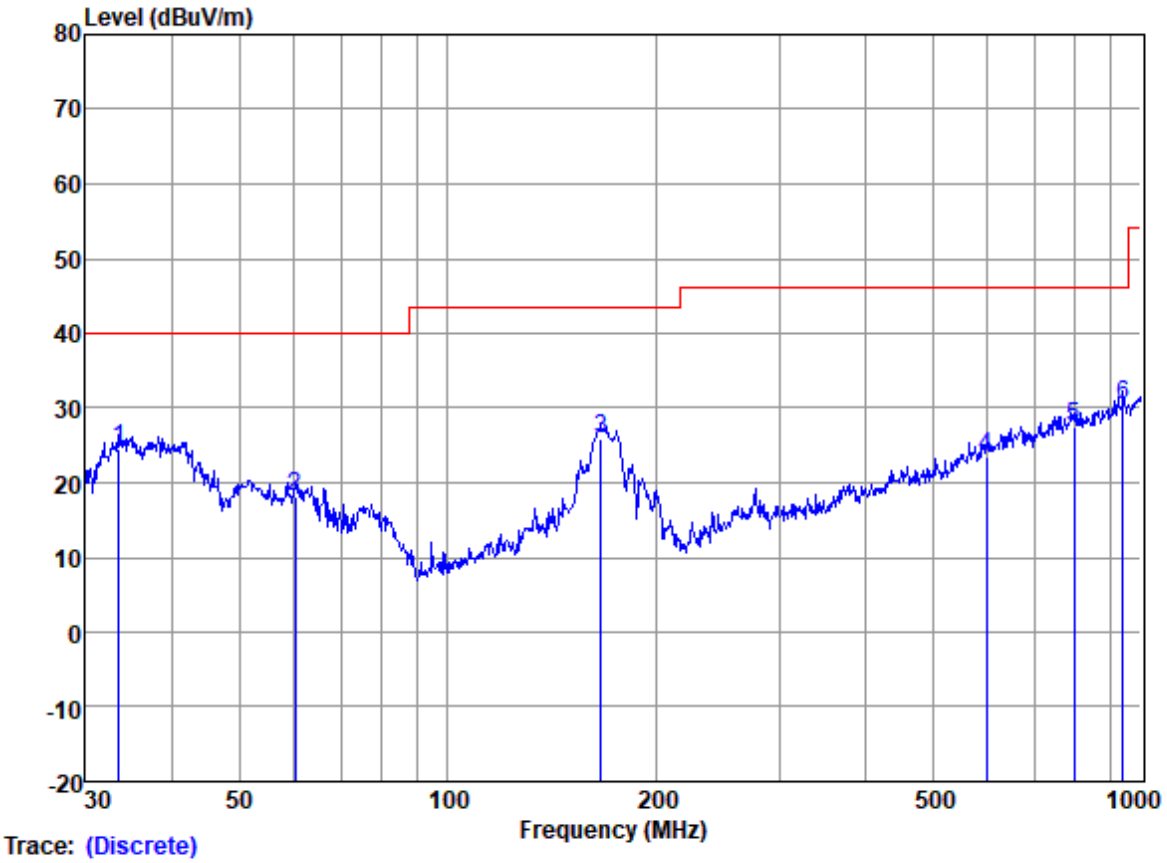



Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode :

| | Freq | Read Level | Anterna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | Pol/ Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dBuV | | |
| 1 | 42.15 | 26.52 | 13.71 | 1.11 | 27.17 | 14.17 | 40.00 | -25.83 | HORIZONTAL | QP |
| 2 | 64.89 | 24.97 | 12.75 | 1.35 | 27.15 | 11.92 | 40.00 | -28.08 | HORIZONTAL | QP |
| 3 | 173.21 | 29.93 | 12.80 | 2.41 | 26.77 | 18.37 | 43.50 | -25.13 | HORIZONTAL | QP |
| 4 | 590.97 | 27.63 | 19.50 | 5.10 | 28.20 | 24.03 | 46.00 | -21.97 | HORIZONTAL | QP |
| 5 | 798.98 | 26.66 | 22.60 | 6.17 | 28.03 | 27.40 | 46.00 | -18.60 | HORIZONTAL | QP |
| 6 | 982.62 | 26.09 | 24.13 | 7.31 | 27.68 | 29.85 | 54.00 | -24.15 | HORIZONTAL | QP |

Test Mode: 11; Polarity: Vertical




Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode :

| | Freq | Read Level | Anterna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | Pol/ Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dBuV | | |
| 1 | 33.56 | 37.84 | 12.78 | 1.06 | 27.19 | 24.49 | 40.00 | -15.51 | VERTICAL | QP |
| 2 | 60.28 | 30.70 | 13.37 | 1.26 | 27.16 | 18.17 | 40.00 | -21.83 | VERTICAL | QP |
| 3 | 166.07 | 36.79 | 13.40 | 2.37 | 26.78 | 25.78 | 43.50 | -17.72 | VERTICAL | QP |
| 4 | 597.22 | 26.85 | 19.80 | 5.14 | 28.21 | 23.58 | 46.00 | -22.42 | VERTICAL | QP |
| 5 | 798.98 | 26.85 | 22.60 | 6.17 | 28.03 | 27.59 | 46.00 | -18.41 | VERTICAL | QP |
| 6 | 942.13 | 27.17 | 23.83 | 7.12 | 27.77 | 30.35 | 46.00 | -15.65 | VERTICAL | QP |

## 6.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

* Frequency in CFR 15.205 Restricted Band.

Note: Frequency in non-Restricted Band:

(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:

(i) 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.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 6.2.1 E.U.T. Operation

Operating Environment:

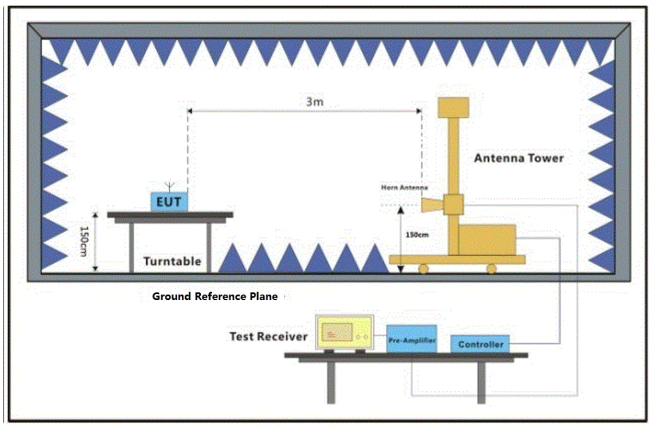
Temperature: 25.5 °C Humidity: 60 % RH Atmospheric Pressure: 1003 mbar

### 6.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 11 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all |

| | | |
|---|---|---|
| | | modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |
| **Final test** | 12 | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |
| **Final test** | 13 | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |
| **Final test** | 14 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |

### 6.2.3 Test Setup Diagram




Above 1GHz

### 6.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

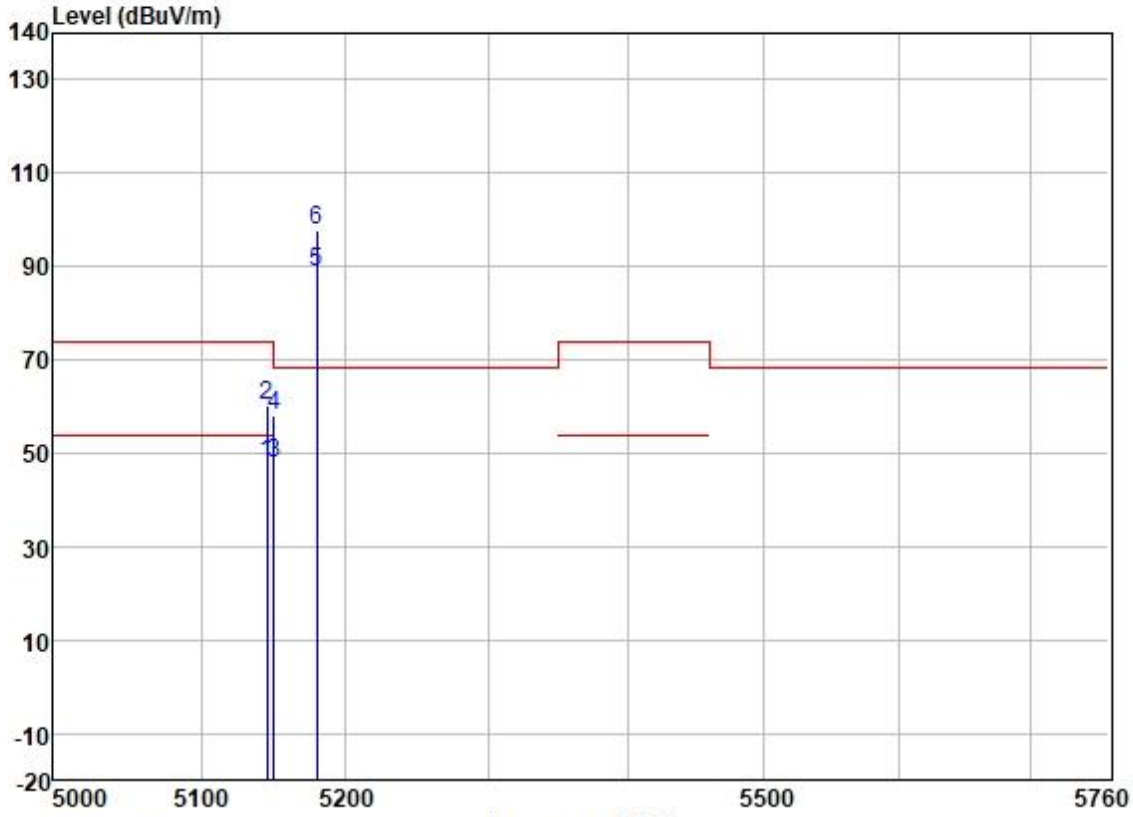
h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

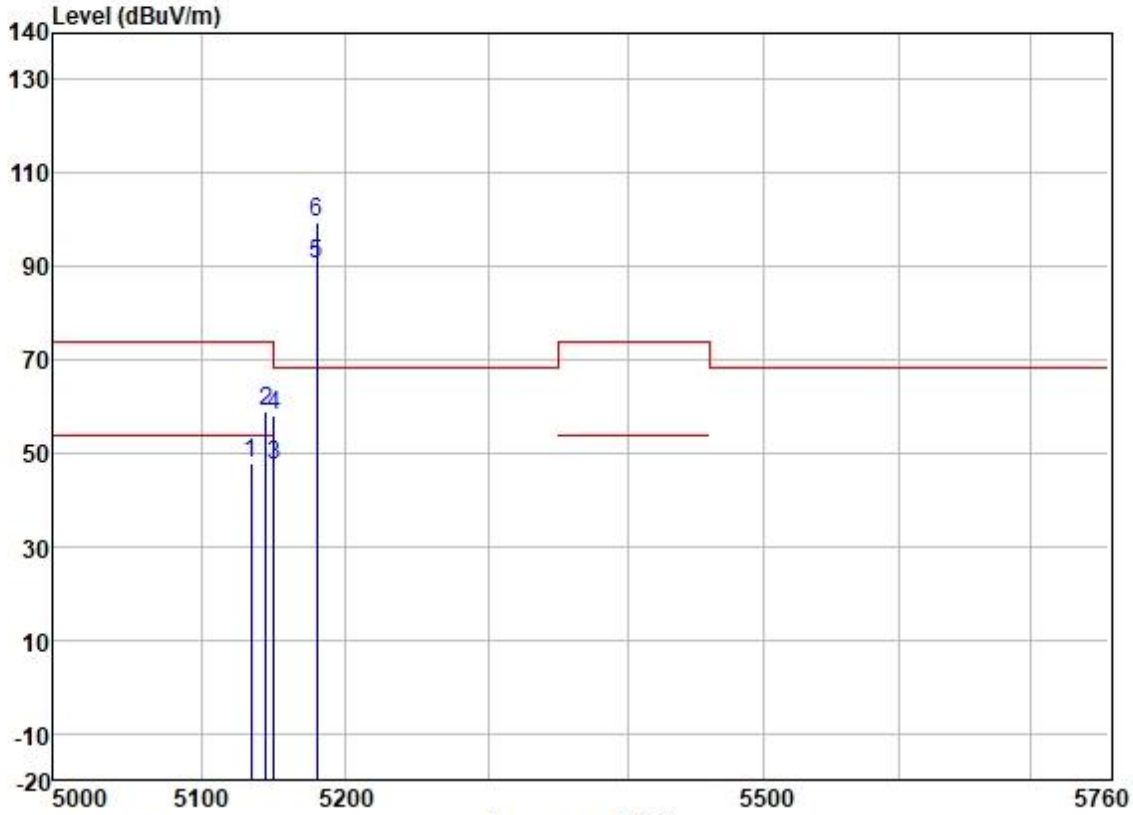
Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




Trace: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5145.060 | 47.35 | 31.72 | 5.62 | 36.86 | 47.83 | 54.00 | -6.17 | HORIZONTAL | Average |
| 2 | | 5145.060 | 59.83 | 31.72 | 5.62 | 36.86 | 60.31 | 74.00 | -13.69 | HORIZONTAL | Peak |
| 3 | | 5149.980 | 47.21 | 31.72 | 5.62 | 36.86 | 47.69 | 54.00 | -6.31 | HORIZONTAL | Average |
| 4 | | 5149.980 | 57.62 | 31.72 | 5.62 | 36.86 | 58.10 | 74.00 | -15.90 | HORIZONTAL | Peak |
| 5 | | 5180.000 | 88.16 | 31.73 | 5.61 | 36.87 | 88.63 | ------ | ------ | HORIZONTAL | Average |
| 6 | * | 5180.000 | 97.27 | 31.73 | 5.61 | 36.87 | 97.74 | 68.20 | 29.54 | HORIZONTAL | Peak |

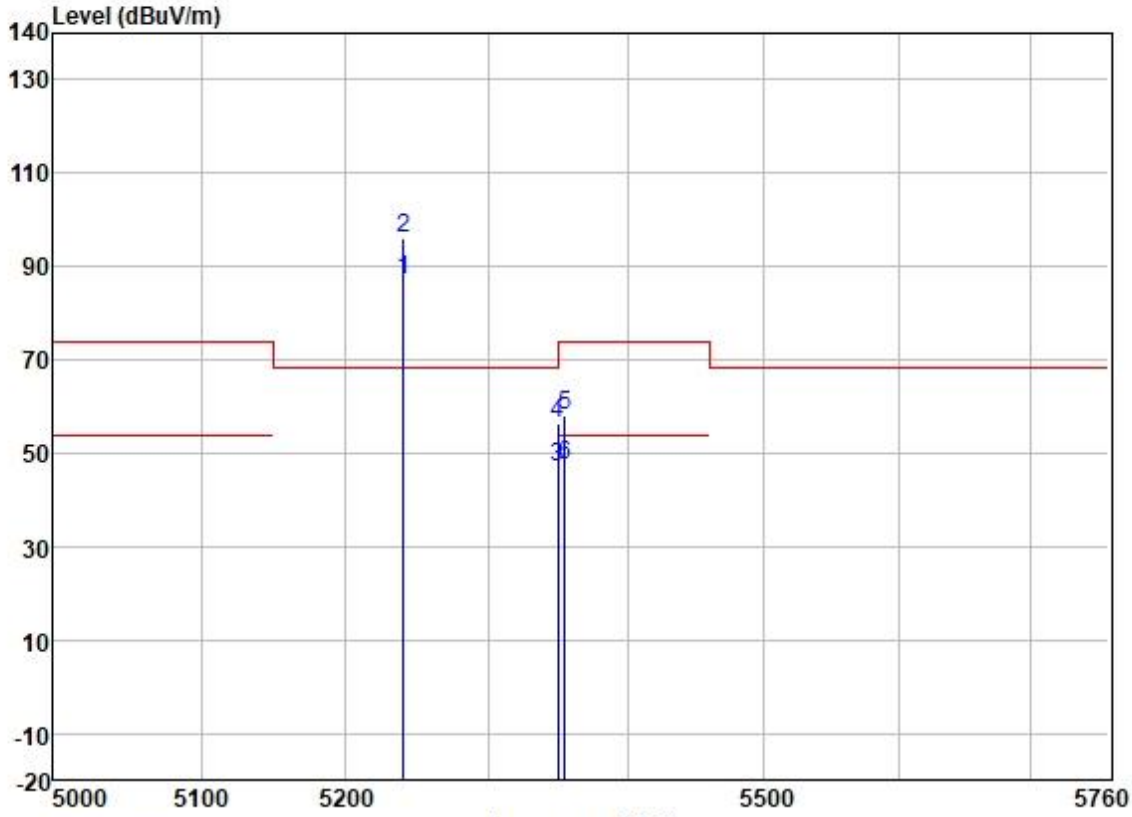
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5134.281 | 47.17 | 31.72 | 5.63 | 36.86 | 47.66 | 54.00 | -6.34 | VERTICAL | Average |
| 2 | | 5144.360 | 58.64 | 31.72 | 5.62 | 36.86 | 59.12 | 74.00 | -14.88 | VERTICAL | Peak |
| 3 | | 5149.980 | 47.12 | 31.72 | 5.62 | 36.86 | 47.60 | 54.00 | -6.40 | VERTICAL | Average |
| 4 | | 5149.980 | 57.61 | 31.72 | 5.62 | 36.86 | 58.09 | 74.00 | -15.91 | VERTICAL | Peak |
| 5 | | 5180.000 | 89.92 | 31.73 | 5.61 | 36.87 | 90.39 | ------ | ------ | VERTICAL | Average |
| 6 | * | 5180.000 | 99.15 | 31.73 | 5.61 | 36.87 | 99.62 | 68.20 | 31.42 | VERTICAL | Peak |

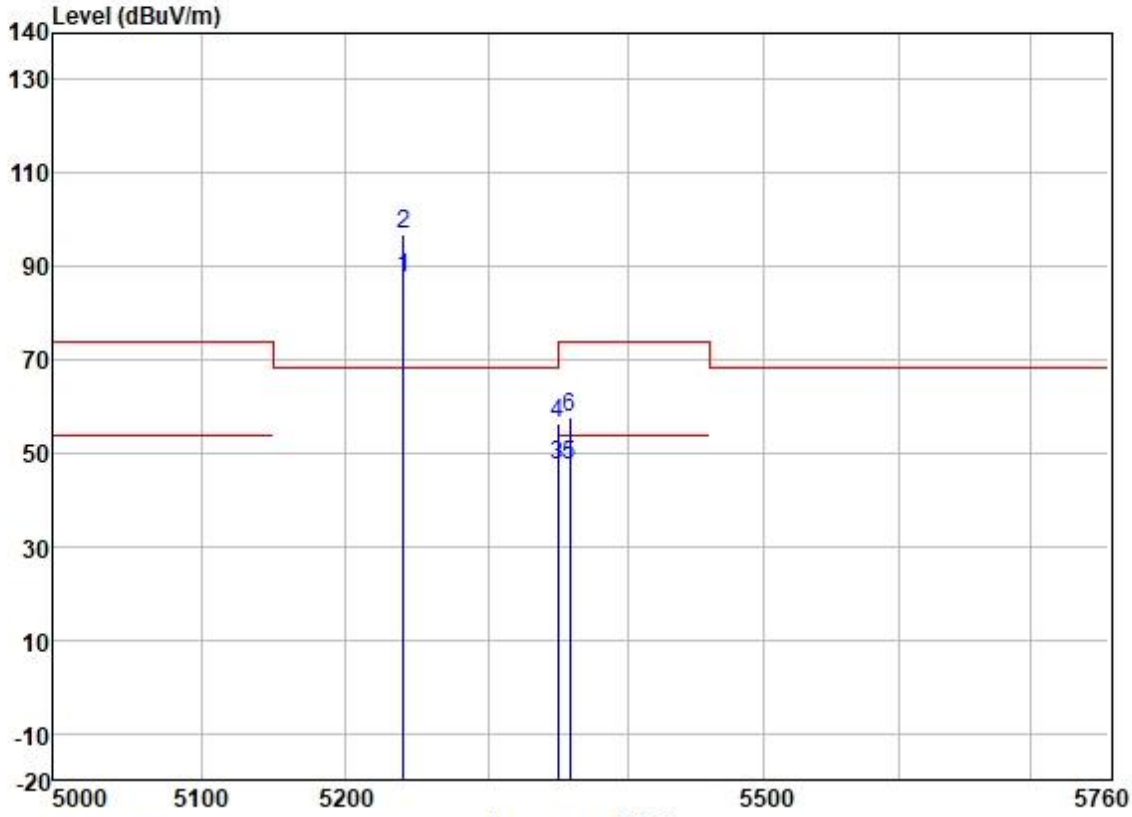
Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5240.000 | 86.33 | 31.75 | 5.74 | 36.87 | 86.95 | ------ | ------ | HORIZONTAL | Average |
| 2 | * | 5240.000 | 95.33 | 31.75 | 5.74 | 36.87 | 95.95 | 68.20 | 27.75 | HORIZONTAL | Peak |
| 3 | | 5350.020 | 46.26 | 31.77 | 6.05 | 36.88 | 47.20 | 54.00 | -6.80 | HORIZONTAL | Average |
| 4 | | 5350.020 | 55.38 | 31.77 | 6.05 | 36.88 | 56.32 | 74.00 | -17.68 | HORIZONTAL | Peak |
| 5 | | 5354.470 | 57.30 | 31.78 | 6.03 | 36.88 | 58.23 | 74.00 | -15.77 | HORIZONTAL | Peak |
| 6 | | 5355.037 | 46.41 | 31.78 | 6.03 | 36.88 | 47.34 | 54.00 | -6.66 | HORIZONTAL | Average |

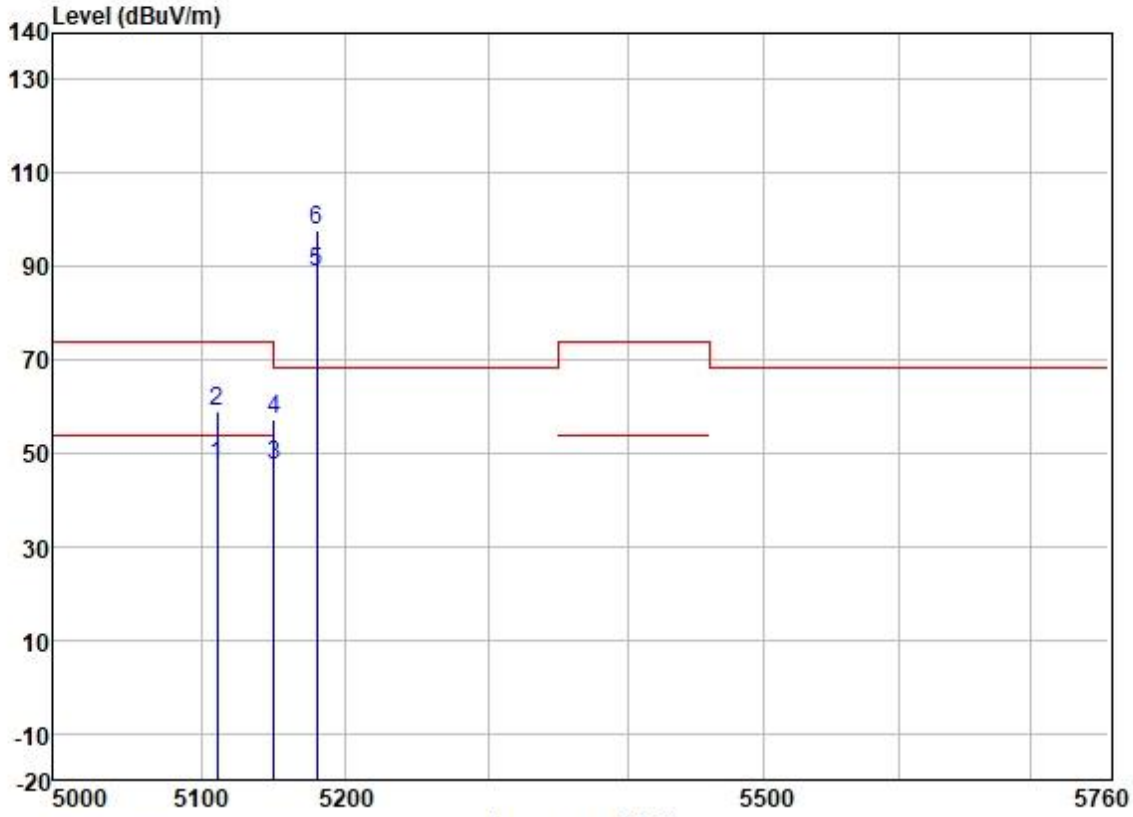
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High




Trace: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5240.000 | 86.89 | 31.75 | 5.74 | 36.87 | 87.51 | ------ | ------ | VERTICAL | Average |
| 2 * | 5240.000 | 96.24 | 31.75 | 5.74 | 36.87 | 96.86 | 68.20 | 28.66 | VERTICAL | Peak |
| 3 | 5350.020 | 46.30 | 31.77 | 6.05 | 36.88 | 47.24 | 54.00 | -6.76 | VERTICAL | Average |
| 4 | 5350.020 | 55.55 | 31.77 | 6.05 | 36.88 | 56.49 | 74.00 | -17.51 | VERTICAL | Peak |
| 5 | 5358.298 | 46.40 | 31.78 | 6.03 | 36.88 | 47.33 | 54.00 | -6.67 | VERTICAL | Average |
| 6 | 5358.582 | 56.71 | 31.78 | 6.03 | 36.88 | 57.64 | 74.00 | -16.36 | VERTICAL | Peak |

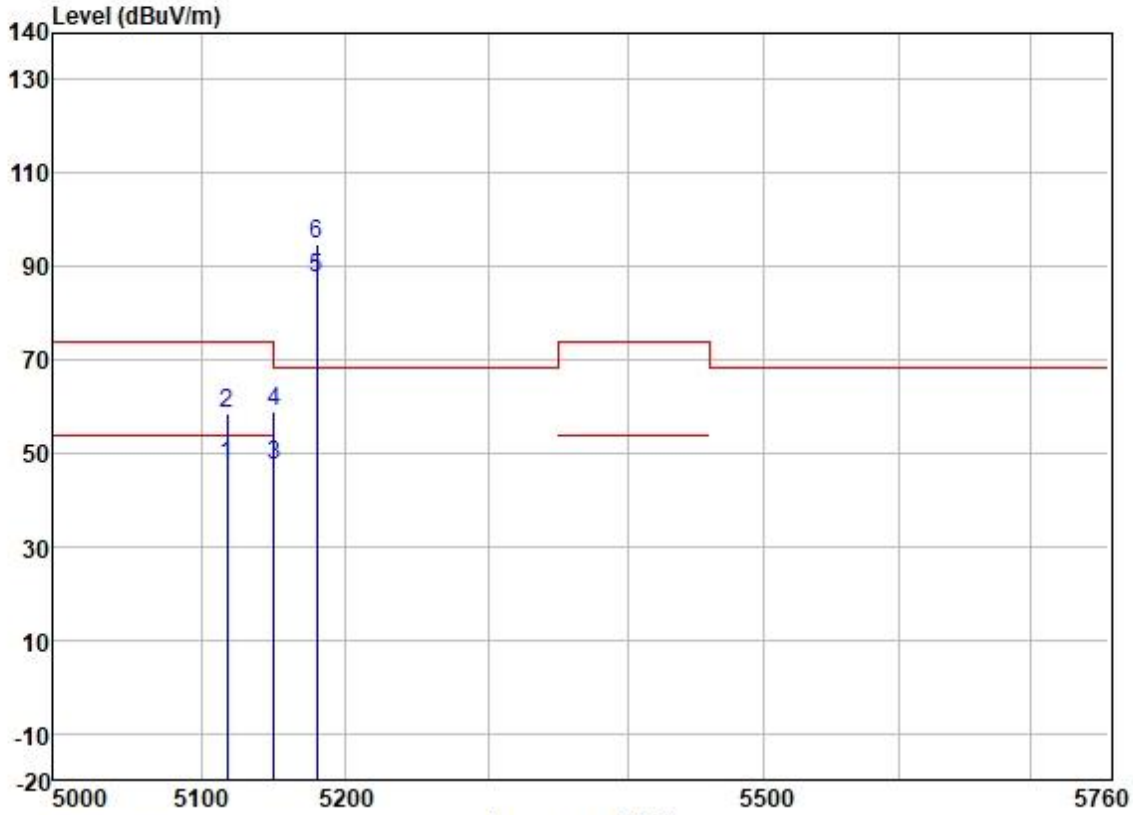
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




Trace: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5111.203 | 46.91 | 31.72 | 5.65 | 36.86 | 47.42 | 54.00 | -6.58 | HORIZONTAL | Average |
| 2 | 5111.203 | 58.22 | 31.72 | 5.65 | 36.86 | 58.73 | 74.00 | -15.27 | HORIZONTAL | Peak |
| 3 | 5149.980 | 46.79 | 31.72 | 5.62 | 36.86 | 47.27 | 54.00 | -6.73 | HORIZONTAL | Average |
| 4 | 5149.980 | 56.69 | 31.72 | 5.62 | 36.86 | 57.17 | 74.00 | -16.83 | HORIZONTAL | Peak |
| 5 | 5180.000 | 88.30 | 31.73 | 5.61 | 36.87 | 88.77 | ------ | ------ | HORIZONTAL | Average |
| 6 * | 5180.000 | 97.27 | 31.73 | 5.61 | 36.87 | 97.74 | 68.20 | 29.54 | HORIZONTAL | Peak |

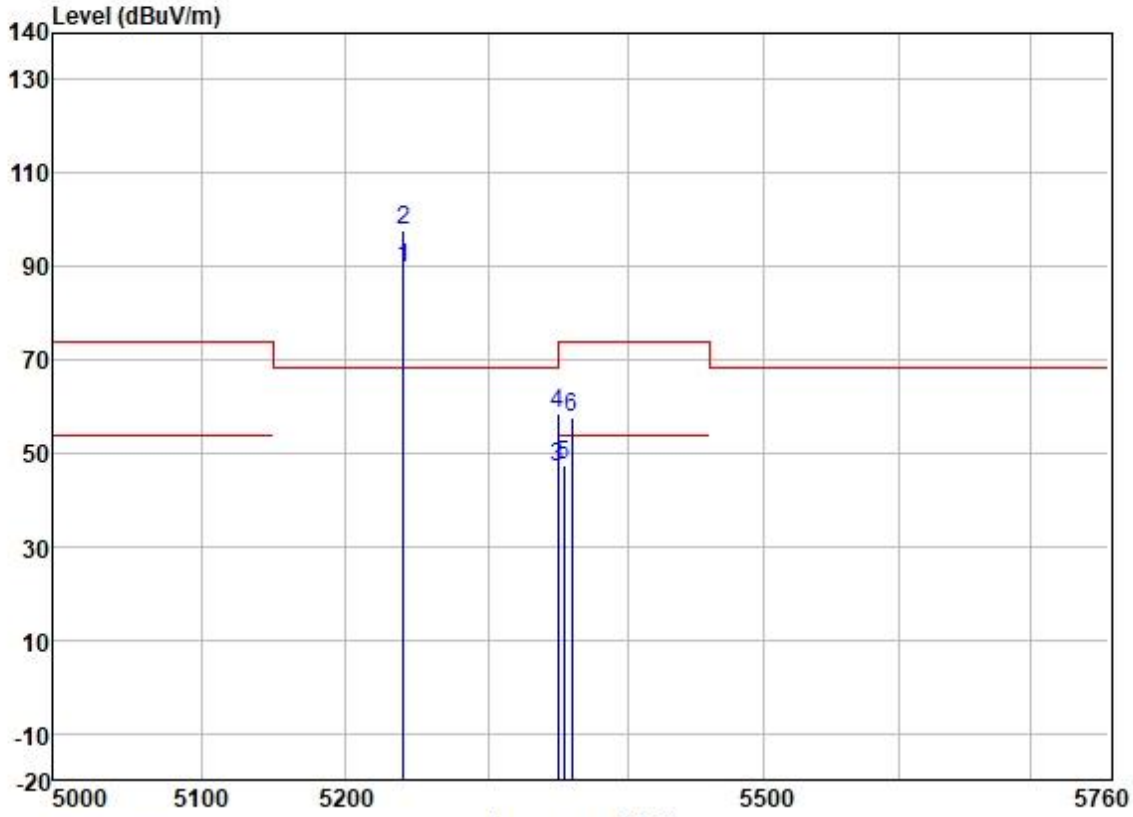
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




Trace: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5117.857 | 46.91 | 31.72 | 5.64 | 36.86 | 47.41 | 54.00 | -6.59 | VERTICAL | Average |
| 2 | | 5117.857 | 57.93 | 31.72 | 5.64 | 36.86 | 58.43 | 74.00 | -15.57 | VERTICAL | Peak |
| 3 | | 5149.980 | 46.77 | 31.72 | 5.62 | 36.86 | 47.25 | 54.00 | -6.75 | VERTICAL | Average |
| 4 | | 5149.980 | 58.63 | 31.72 | 5.62 | 36.86 | 59.11 | 74.00 | -14.89 | VERTICAL | Peak |
| 5 | | 5180.000 | 87.17 | 31.73 | 5.61 | 36.87 | 87.64 | ------ | ------ | VERTICAL | Average |
| 6 | * | 5180.000 | 94.42 | 31.73 | 5.61 | 36.87 | 94.89 | 68.20 | 26.69 | VERTICAL | Peak |

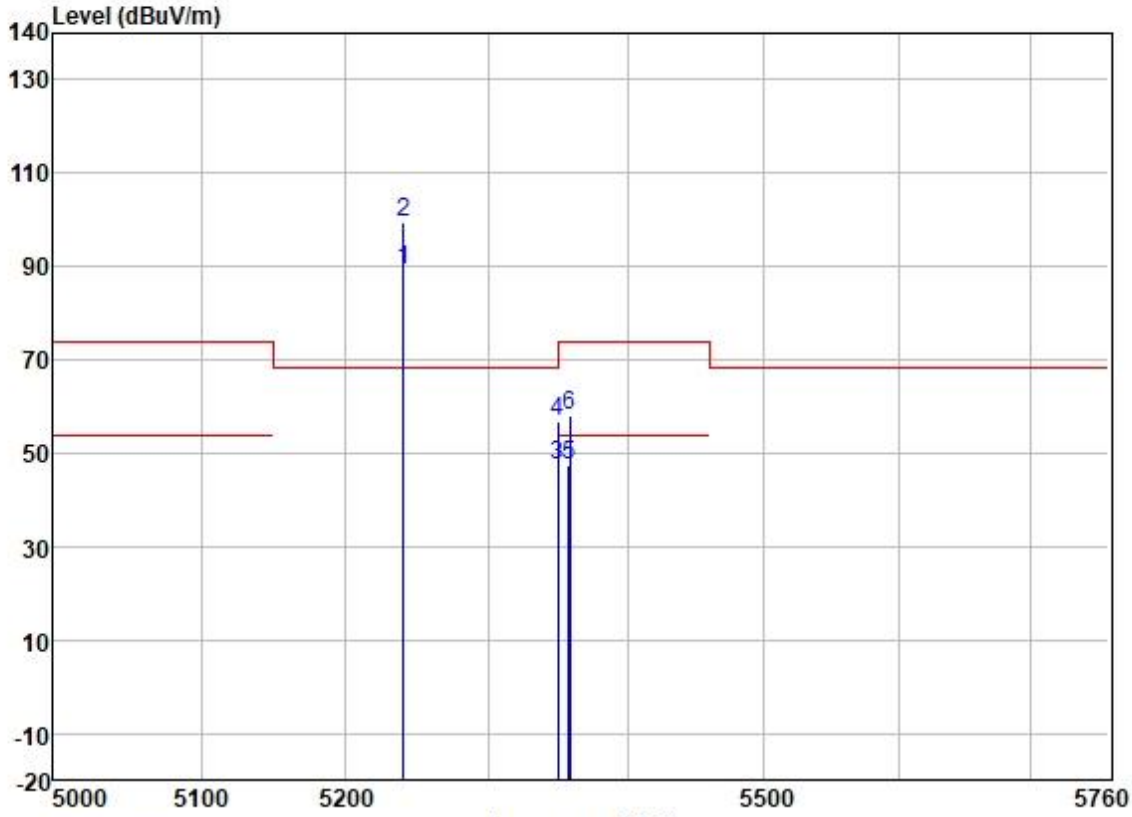
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5240.000 | 89.05 | 31.75 | 5.74 | 36.87 | 89.67 | ------ | ------ | HORIZONTAL | Average |
| 2 | * | 5240.000 | 96.95 | 31.75 | 5.74 | 36.87 | 97.57 | 68.20 | 29.37 | HORIZONTAL | Peak |
| 3 | | 5350.020 | 46.20 | 31.77 | 6.05 | 36.88 | 47.14 | 54.00 | -6.86 | HORIZONTAL | Average |
| 4 | | 5350.020 | 57.44 | 31.77 | 6.05 | 36.88 | 58.38 | 74.00 | -15.62 | HORIZONTAL | Peak |
| 5 | | 5353.762 | 46.53 | 31.77 | 6.05 | 36.88 | 47.47 | 54.00 | -6.53 | HORIZONTAL | Average |
| 6 | | 5359.716 | 56.74 | 31.78 | 6.03 | 36.88 | 57.67 | 74.00 | -16.33 | HORIZONTAL | Peak |

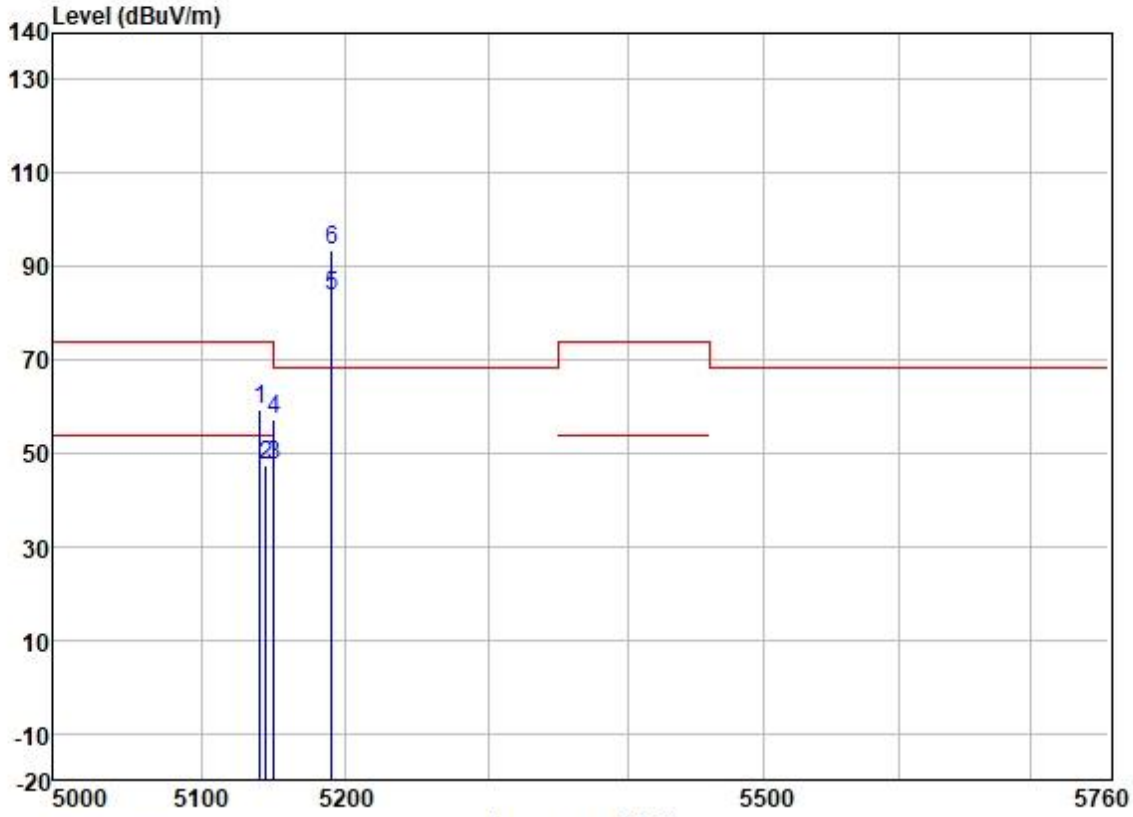
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High




Trace: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5240.000 | 88.66 | 31.75 | 5.74 | 36.87 | 89.28 | ------ | ------ | VERTICAL | Average |
| 2 * | 5240.000 | 98.81 | 31.75 | 5.74 | 36.87 | 99.43 | 68.20 | 31.23 | VERTICAL | Peak |
| 3 | 5350.020 | 46.32 | 31.77 | 6.05 | 36.88 | 47.26 | 54.00 | -6.74 | VERTICAL | Average |
| 4 | 5350.020 | 55.80 | 31.77 | 6.05 | 36.88 | 56.74 | 74.00 | -17.26 | VERTICAL | Peak |
| 5 | 5357.589 | 46.44 | 31.78 | 6.03 | 36.88 | 47.37 | 54.00 | -6.63 | VERTICAL | Average |
| 6 | 5358.156 | 57.27 | 31.78 | 6.03 | 36.88 | 58.20 | 74.00 | -15.80 | VERTICAL | Peak |

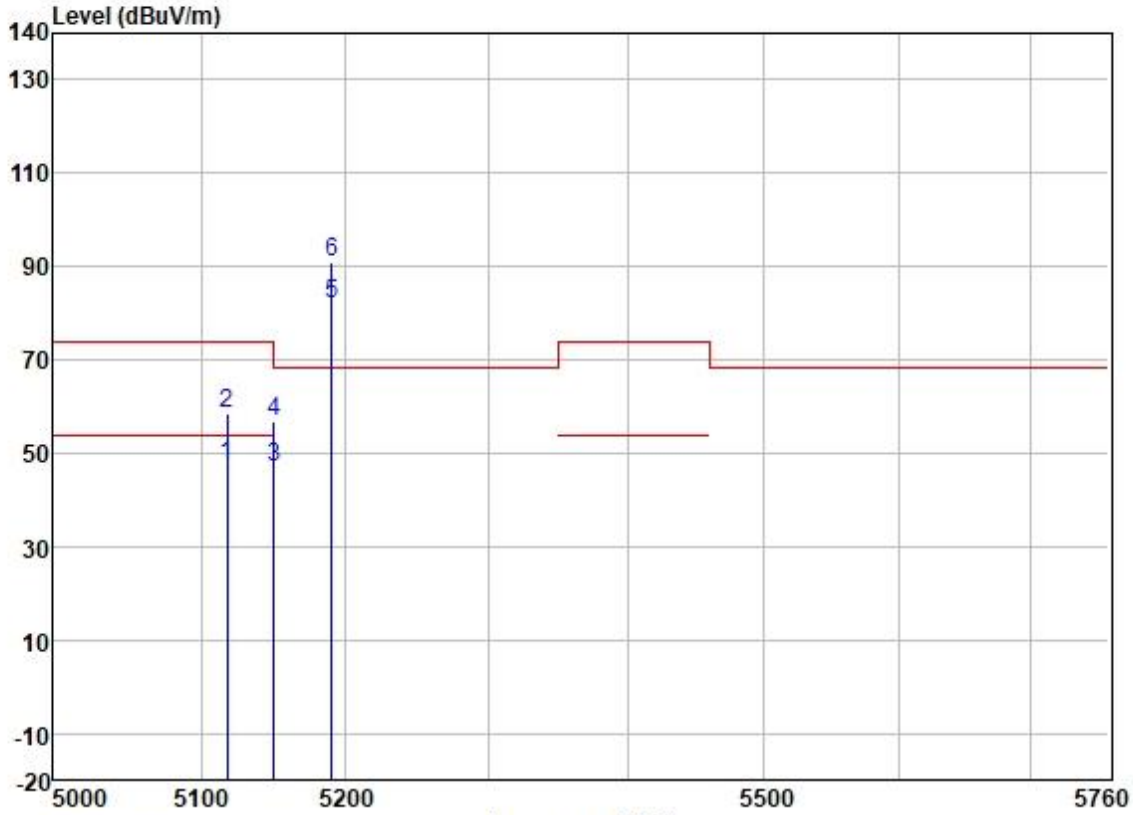
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5140.248 | 58.73 | 31.72 | 5.63 | 36.86 | 59.22 | 74.00 | -14.78 | HORIZONTAL | Peak |
| 2 | | 5144.554 | 46.91 | 31.72 | 5.62 | 36.86 | 47.39 | 54.00 | -6.61 | HORIZONTAL | Average |
| 3 | | 5149.980 | 46.84 | 31.72 | 5.62 | 36.86 | 47.32 | 54.00 | -6.68 | HORIZONTAL | Average |
| 4 | | 5149.980 | 56.86 | 31.72 | 5.62 | 36.86 | 57.34 | 74.00 | -16.66 | HORIZONTAL | Peak |
| 5 | | 5190.000 | 83.35 | 31.73 | 5.60 | 36.87 | 83.81 | ------ | ------ | HORIZONTAL | Average |
| 6 | * | 5190.000 | 92.84 | 31.73 | 5.60 | 36.87 | 93.30 | 68.20 | 25.10 | HORIZONTAL | Peak |

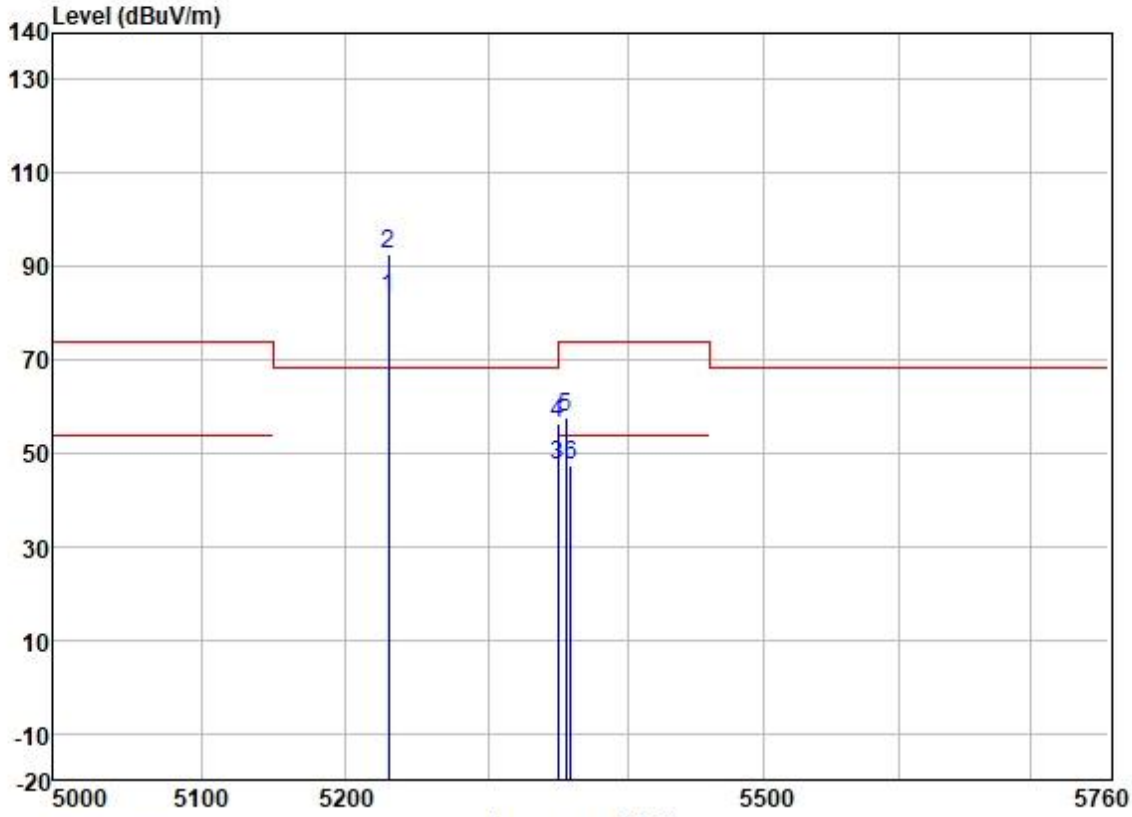
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




Trace: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5117.704 | 46.84 | 31.72 | 5.64 | 36.86 | 47.34 | 54.00 | -6.66 | VERTICAL | Average |
| 2 | | 5117.704 | 58.03 | 31.72 | 5.64 | 36.86 | 58.53 | 74.00 | -15.47 | VERTICAL | Peak |
| 3 | | 5149.980 | 46.72 | 31.72 | 5.62 | 36.86 | 47.20 | 54.00 | -6.80 | VERTICAL | Average |
| 4 | | 5149.980 | 56.17 | 31.72 | 5.62 | 36.86 | 56.65 | 74.00 | -17.35 | VERTICAL | Peak |
| 5 | | 5190.000 | 81.36 | 31.73 | 5.60 | 36.87 | 81.82 | ------ | ------ | VERTICAL | Average |
| 6 | * | 5190.000 | 90.35 | 31.73 | 5.60 | 36.87 | 90.81 | 68.20 | 22.61 | VERTICAL | Peak |

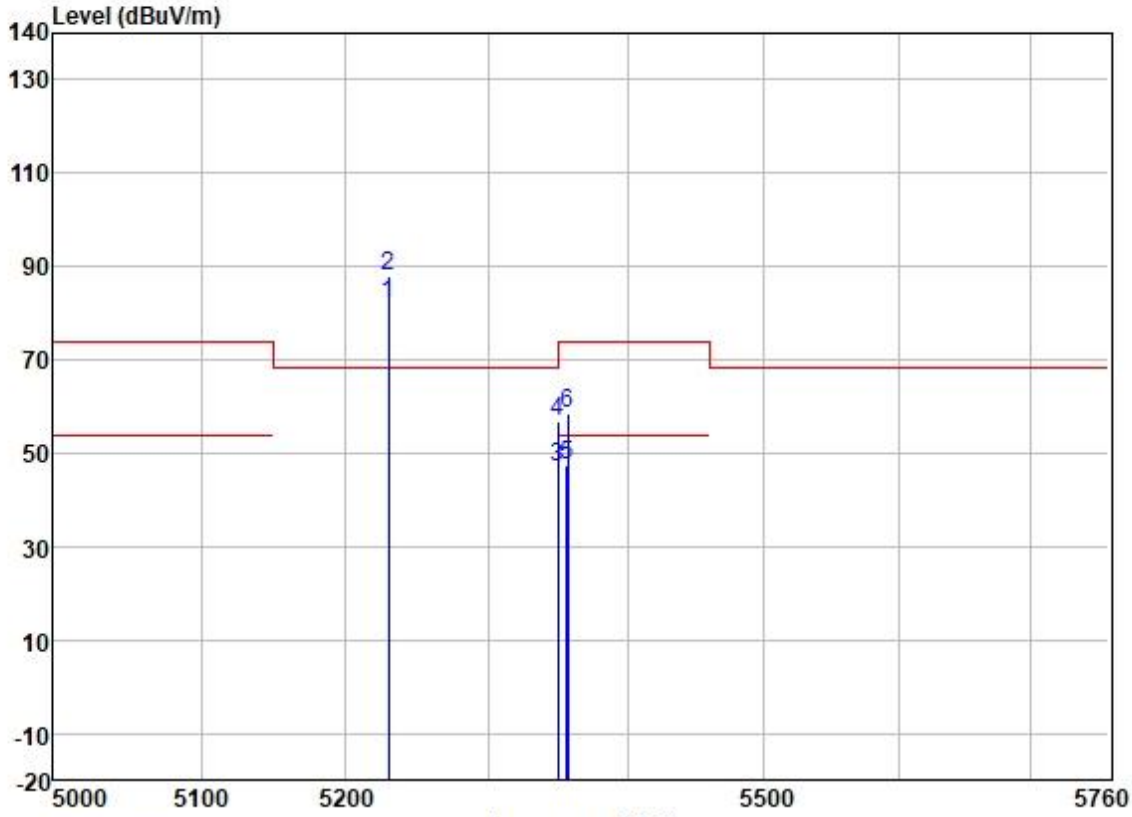
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High




race: (Discrete)

| | | Freq | ReadLevel | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5230.000 | 82.89 | 31.74 | 5.70 | 36.87 | 83.46 | ------ | ------ | HORIZONTAL | Average |
| 2 | * | 5230.000 | 91.86 | 31.74 | 5.70 | 36.87 | 92.43 | 68.20 | 24.23 | HORIZONTAL | Peak |
| 3 | | 5350.020 | 46.40 | 31.77 | 6.05 | 36.88 | 47.34 | 54.00 | -6.66 | HORIZONTAL | Average |
| 4 | | 5350.020 | 55.41 | 31.77 | 6.05 | 36.88 | 56.35 | 74.00 | -17.65 | HORIZONTAL | Peak |
| 5 | | 5355.616 | 56.90 | 31.78 | 6.03 | 36.88 | 57.83 | 74.00 | -16.17 | HORIZONTAL | Peak |
| 6 | | 5359.025 | 46.37 | 31.78 | 6.03 | 36.88 | 47.30 | 54.00 | -6.70 | HORIZONTAL | Average |

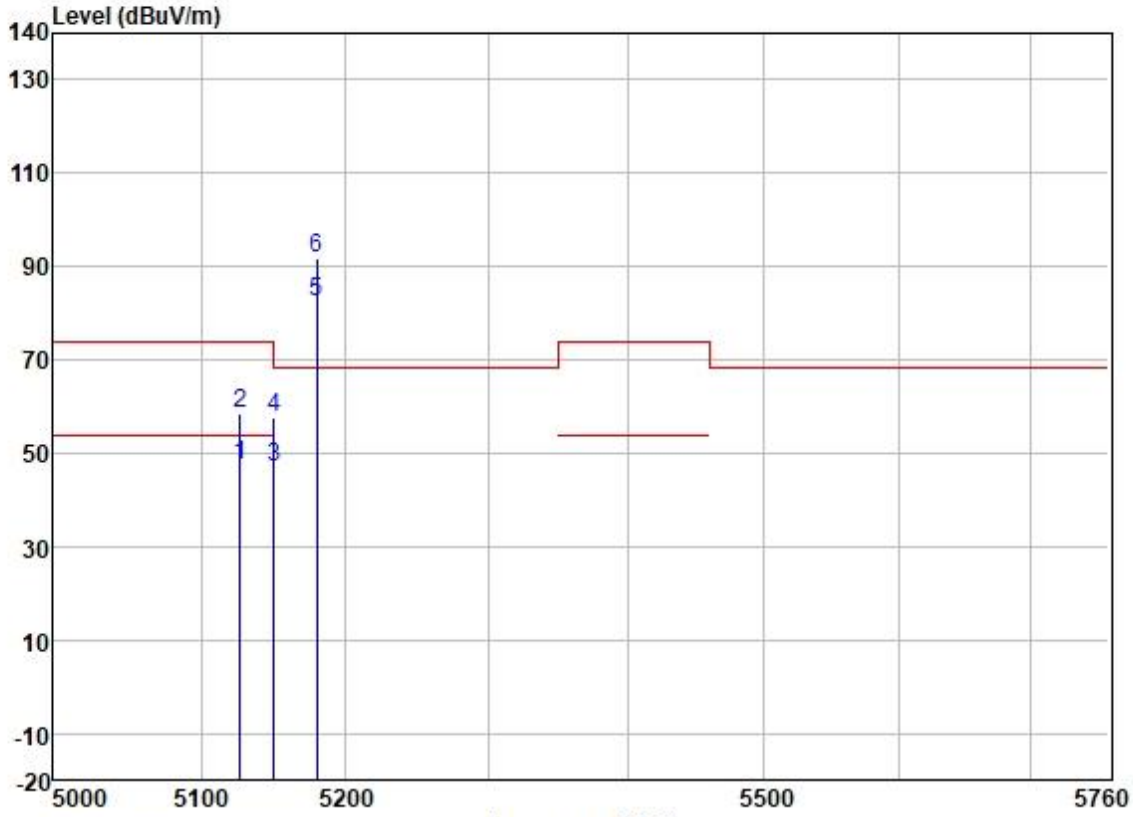
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




Trace: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5230.000 | 81.56 | 31.74 | 5.70 | 36.87 | 82.13 | ------ | ------ | VERTICAL | Average |
| 2 * | 5230.000 | 87.20 | 31.74 | 5.70 | 36.87 | 87.77 | 68.20 | 19.57 | VERTICAL | Peak |
| 3 | 5350.020 | 46.25 | 31.77 | 6.05 | 36.88 | 47.19 | 54.00 | -6.81 | VERTICAL | Average |
| 4 | 5350.020 | 55.67 | 31.77 | 6.05 | 36.88 | 56.61 | 74.00 | -17.39 | VERTICAL | Peak |
| 5 | 5356.265 | 46.42 | 31.78 | 6.03 | 36.88 | 47.35 | 54.00 | -6.65 | VERTICAL | Average |
| 6 | 5356.915 | 57.43 | 31.78 | 6.03 | 36.88 | 58.36 | 74.00 | -15.64 | VERTICAL | Peak |

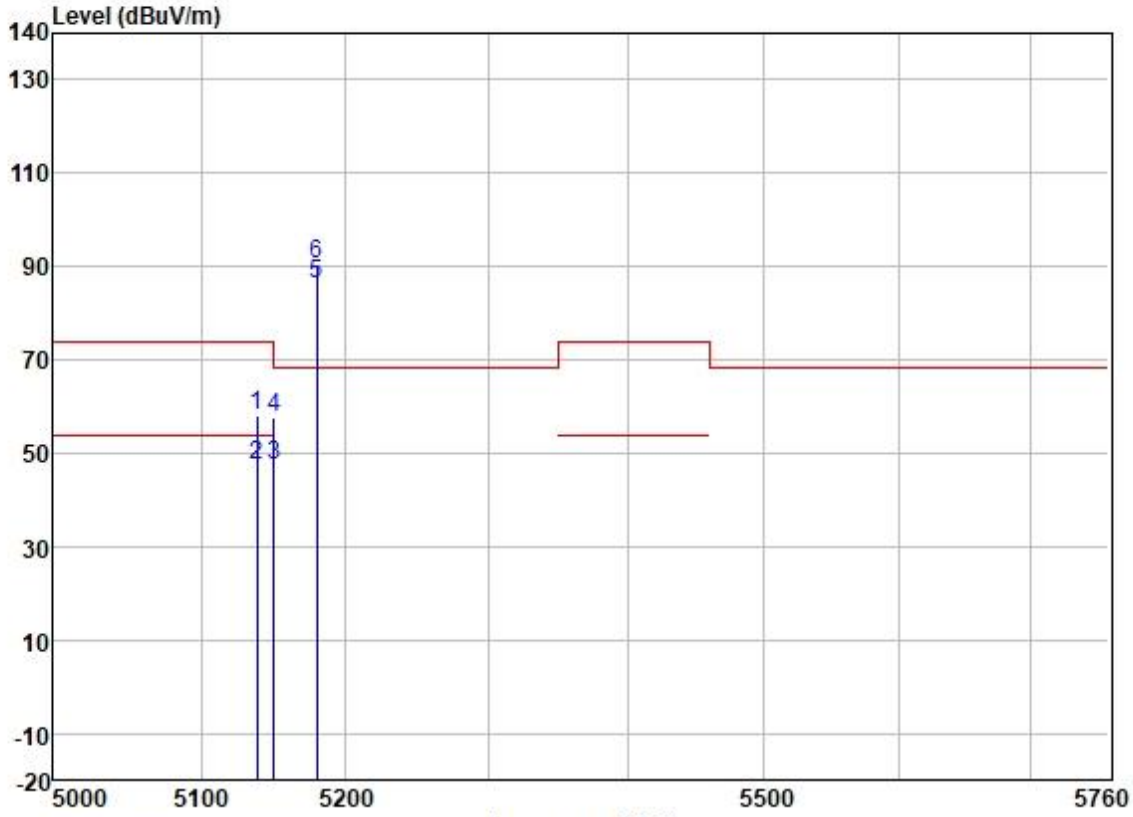
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




Trace: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5127.008 | 46.84 | 31.72 | 5.63 | 36.86 | 47.33 | 54.00 | -6.67 | HORIZONTAL | Average |
| 2 | | 5127.008 | 57.81 | 31.72 | 5.63 | 36.86 | 58.30 | 74.00 | -15.70 | HORIZONTAL | Peak |
| 3 | | 5149.980 | 46.70 | 31.72 | 5.62 | 36.86 | 47.18 | 54.00 | -6.82 | HORIZONTAL | Average |
| 4 | | 5149.980 | 57.14 | 31.72 | 5.62 | 36.86 | 57.62 | 74.00 | -16.38 | HORIZONTAL | Peak |
| 5 | | 5180.000 | 82.14 | 31.73 | 5.61 | 36.87 | 82.61 | ------ | ------ | HORIZONTAL | Average |
| 6 | * | 5180.000 | 91.44 | 31.73 | 5.61 | 36.87 | 91.91 | 68.20 | 23.71 | HORIZONTAL | Peak |

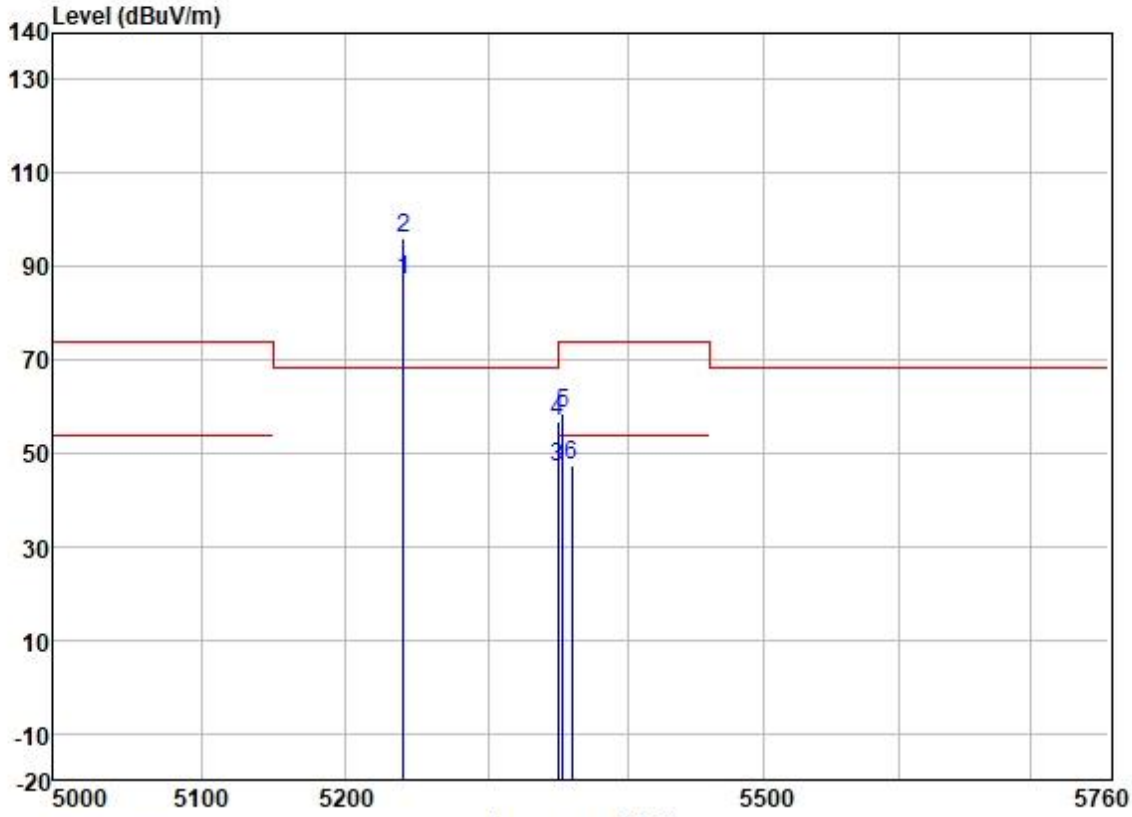
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




Trace: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5138.271 | 57.61 | 31.72 | 5.63 | 36.86 | 58.10 | 74.00 | -15.90 | VERTICAL | Peak |
| 2 | 5138.669 | 46.90 | 31.72 | 5.63 | 36.86 | 47.39 | 54.00 | -6.61 | VERTICAL | Average |
| 3 | 5149.980 | 46.74 | 31.72 | 5.62 | 36.86 | 47.22 | 54.00 | -6.78 | VERTICAL | Average |
| 4 | 5149.980 | 57.28 | 31.72 | 5.62 | 36.86 | 57.76 | 74.00 | -16.24 | VERTICAL | Peak |
| 5 | 5180.000 | 85.77 | 31.73 | 5.61 | 36.87 | 86.24 | ------ | ------ | VERTICAL | Average |
| 6 * | 5180.000 | 89.84 | 31.73 | 5.61 | 36.87 | 90.31 | 68.20 | 22.11 | VERTICAL | Peak |

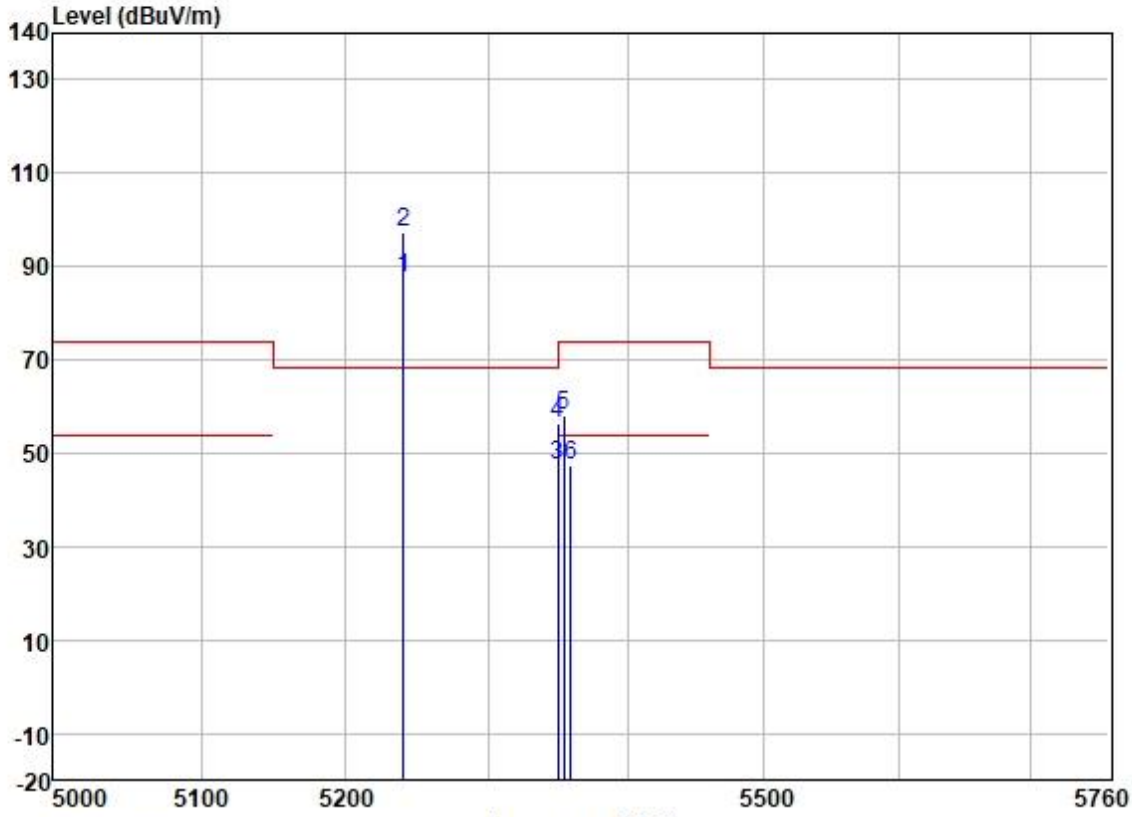
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5240.000 | 86.65 | 31.75 | 5.74 | 36.87 | 87.27 | ------ | ------ | HORIZONTAL | Average |
| 2 | * | 5240.000 | 95.60 | 31.75 | 5.74 | 36.87 | 96.22 | 68.20 | 28.02 | HORIZONTAL | Peak |
| 3 | | 5350.020 | 46.15 | 31.77 | 6.05 | 36.88 | 47.09 | 54.00 | -6.91 | HORIZONTAL | Average |
| 4 | | 5350.020 | 55.97 | 31.77 | 6.05 | 36.88 | 56.91 | 74.00 | -17.09 | HORIZONTAL | Peak |
| 5 | | 5353.053 | 57.44 | 31.77 | 6.05 | 36.88 | 58.38 | 74.00 | -15.62 | HORIZONTAL | Peak |
| 6 | | 5359.433 | 46.40 | 31.78 | 6.03 | 36.88 | 47.33 | 54.00 | -6.67 | HORIZONTAL | Average |

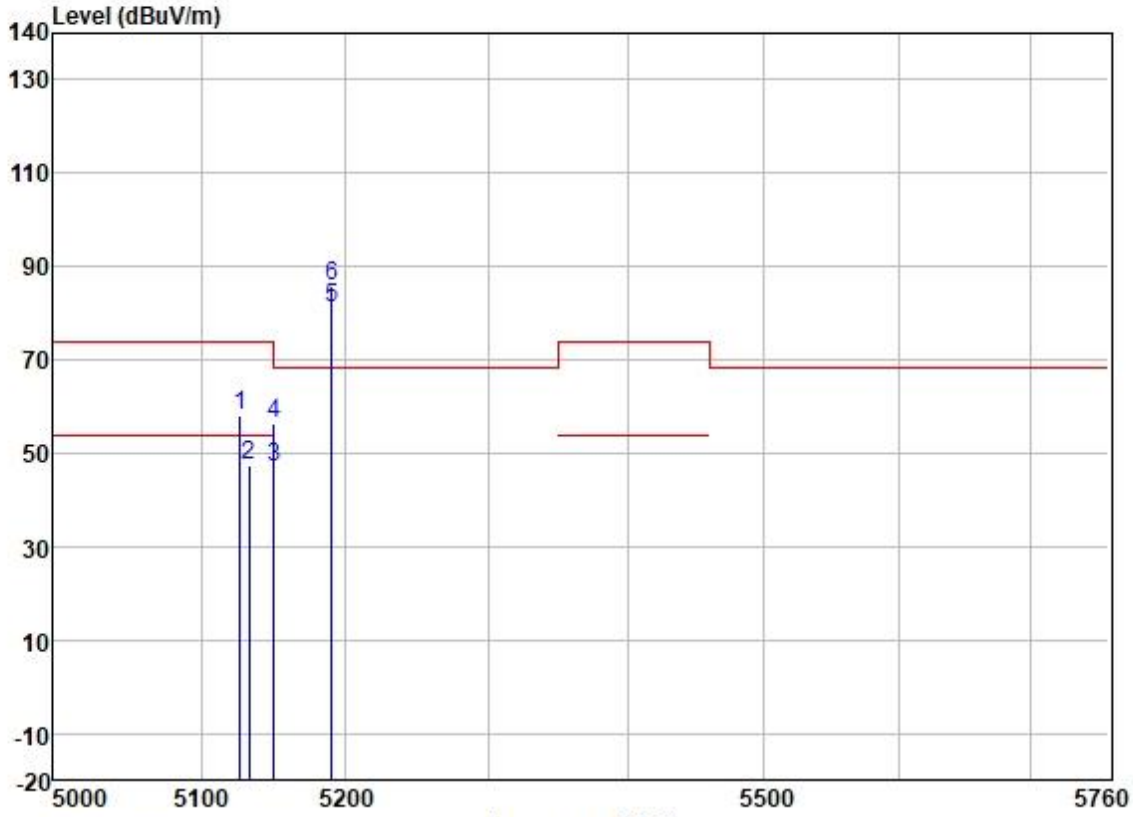
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | ReadLevel | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5240.000 | 86.80 | 31.75 | 5.74 | 36.87 | 87.42 | ------ | ------ | VERTICAL | Average |
| 2 | * | 5240.000 | 96.57 | 31.75 | 5.74 | 36.87 | 97.19 | 68.20 | 28.99 | VERTICAL | Peak |
| 3 | | 5350.020 | 46.32 | 31.77 | 6.05 | 36.88 | 47.26 | 54.00 | -6.74 | VERTICAL | Average |
| 4 | | 5350.020 | 55.62 | 31.77 | 6.05 | 36.88 | 56.56 | 74.00 | -17.44 | VERTICAL | Peak |
| 5 | | 5353.762 | 57.35 | 31.77 | 6.05 | 36.88 | 58.29 | 74.00 | -15.71 | VERTICAL | Peak |
| 6 | | 5359.291 | 46.48 | 31.78 | 6.03 | 36.88 | 47.41 | 54.00 | -6.59 | VERTICAL | Average |

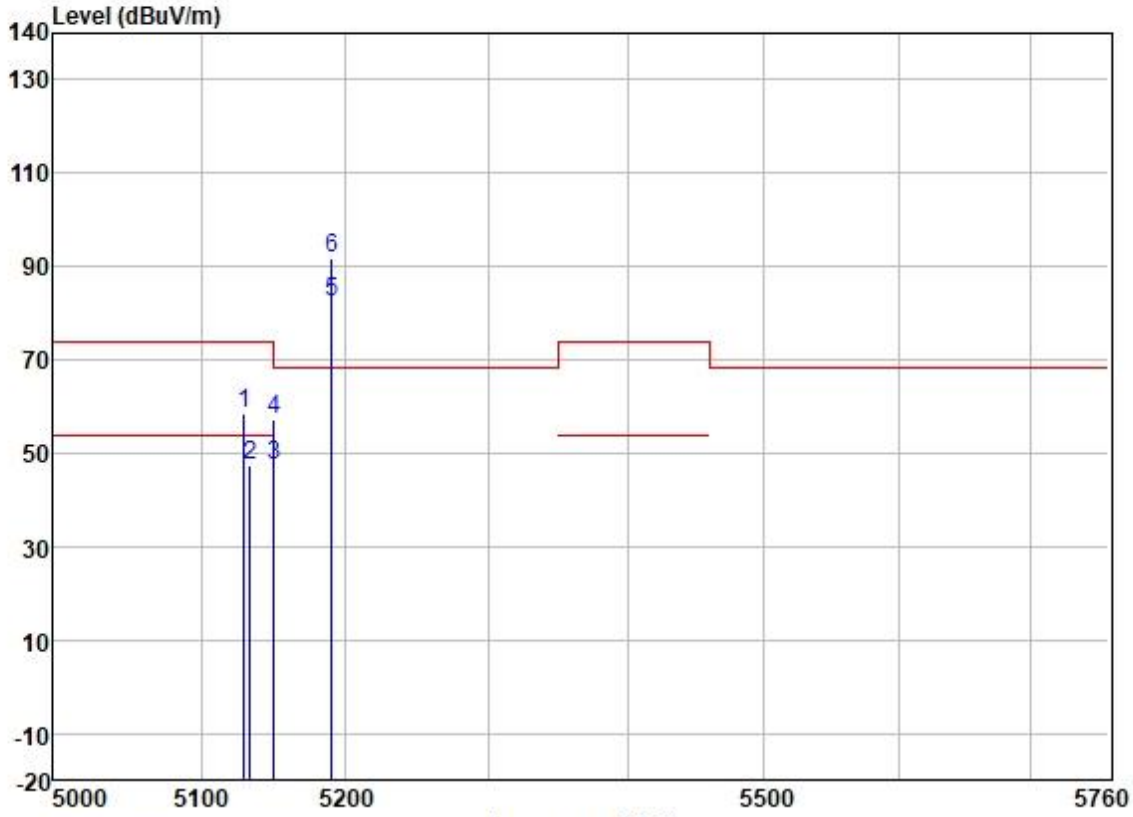
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5126.638 | 57.75 | 31.72 | 5.64 | 36.86 | 58.25 | 74.00 | -15.75 | HORIZONTAL | Peak |
| 2 | | 5133.200 | 46.84 | 31.72 | 5.63 | 36.86 | 47.33 | 54.00 | -6.67 | HORIZONTAL | Average |
| 3 | | 5149.980 | 46.71 | 31.72 | 5.62 | 36.86 | 47.19 | 54.00 | -6.81 | HORIZONTAL | Average |
| 4 | | 5149.980 | 55.91 | 31.72 | 5.62 | 36.86 | 56.39 | 74.00 | -17.61 | HORIZONTAL | Peak |
| 5 | | 5190.000 | 80.60 | 31.73 | 5.60 | 36.87 | 81.06 | ------ | ------ | HORIZONTAL | Average |
| 6 | * | 5190.000 | 85.46 | 31.73 | 5.60 | 36.87 | 85.92 | 68.20 | 17.72 | HORIZONTAL | Peak |

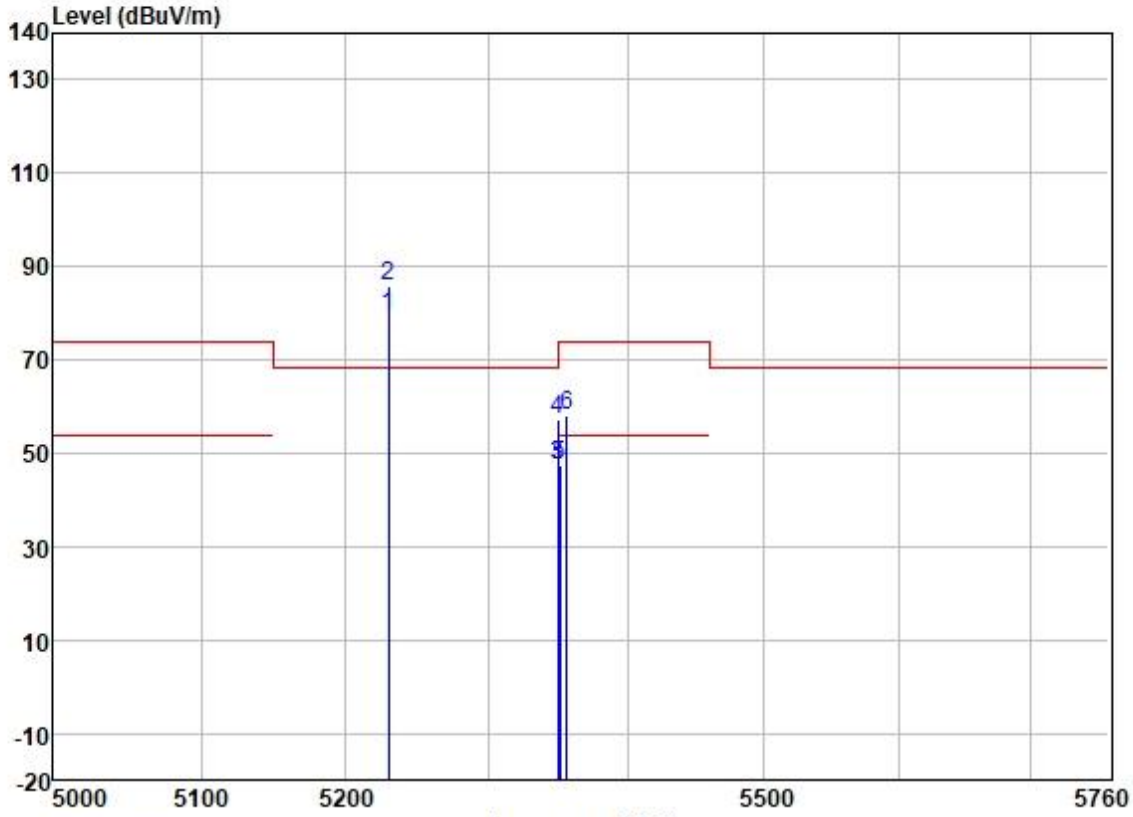
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




Trace: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5129.381 | 58.17 | 31.72 | 5.63 | 36.86 | 58.66 | 74.00 | -15.34 | VERTICAL | Peak |
| 2 | 5133.319 | 46.86 | 31.72 | 5.63 | 36.86 | 47.35 | 54.00 | -6.65 | VERTICAL | Average |
| 3 | 5149.980 | 46.82 | 31.72 | 5.62 | 36.86 | 47.30 | 54.00 | -6.70 | VERTICAL | Average |
| 4 | 5149.980 | 56.70 | 31.72 | 5.62 | 36.86 | 57.18 | 74.00 | -16.82 | VERTICAL | Peak |
| 5 | 5190.000 | 81.79 | 31.73 | 5.60 | 36.87 | 82.25 | ------ | ------ | VERTICAL | Average |
| 6 * | 5190.000 | 91.46 | 31.73 | 5.60 | 36.87 | 91.92 | 68.20 | 23.72 | VERTICAL | Peak |

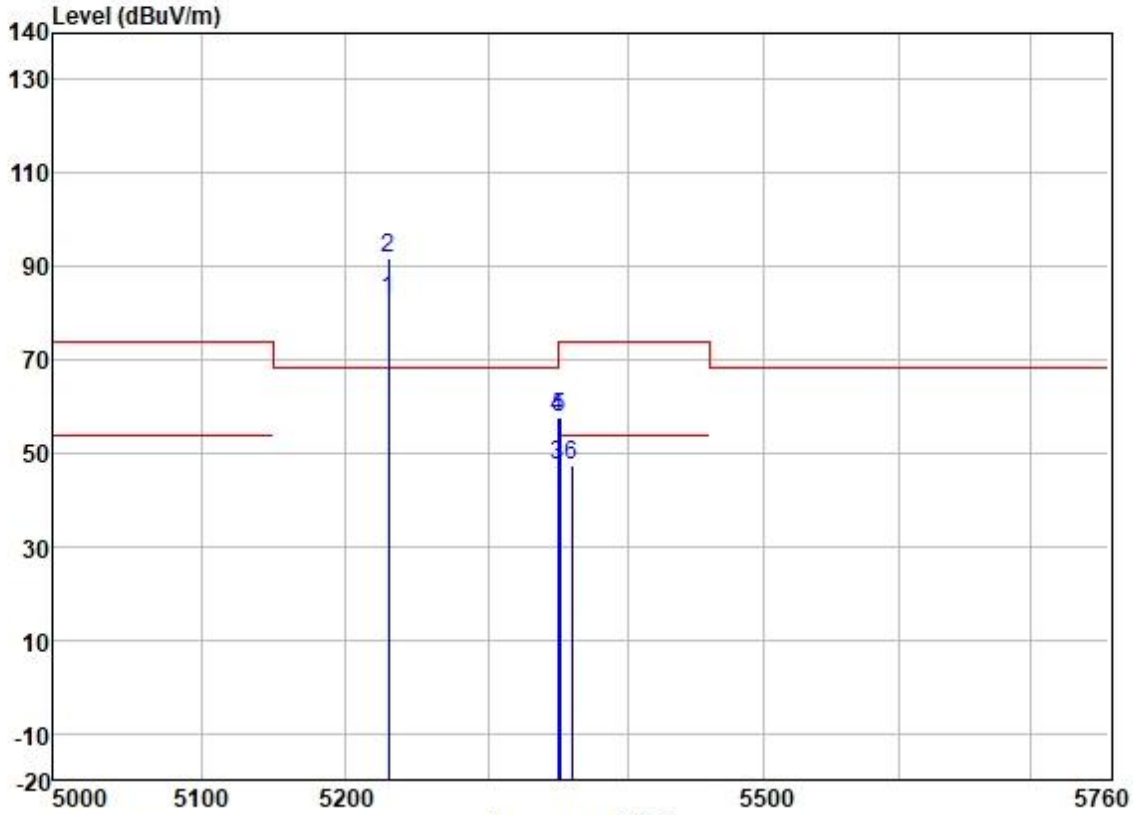
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5230.000 | 79.00 | 31.74 | 5.70 | 36.87 | 79.57 | ------ | ------ | HORIZONTAL | Average |
| 2 | * | 5230.000 | 85.21 | 31.74 | 5.70 | 36.87 | 85.78 | 68.20 | 17.58 | HORIZONTAL | Peak |
| 3 | | 5350.020 | 46.27 | 31.77 | 6.05 | 36.88 | 47.21 | 54.00 | -6.79 | HORIZONTAL | Average |
| 4 | | 5350.020 | 56.35 | 31.77 | 6.05 | 36.88 | 57.29 | 74.00 | -16.71 | HORIZONTAL | Peak |
| 5 | | 5350.911 | 46.40 | 31.77 | 6.05 | 36.88 | 47.34 | 54.00 | -6.66 | HORIZONTAL | Average |
| 6 | | 5355.940 | 56.95 | 31.78 | 6.03 | 36.88 | 57.88 | 74.00 | -16.12 | HORIZONTAL | Peak |

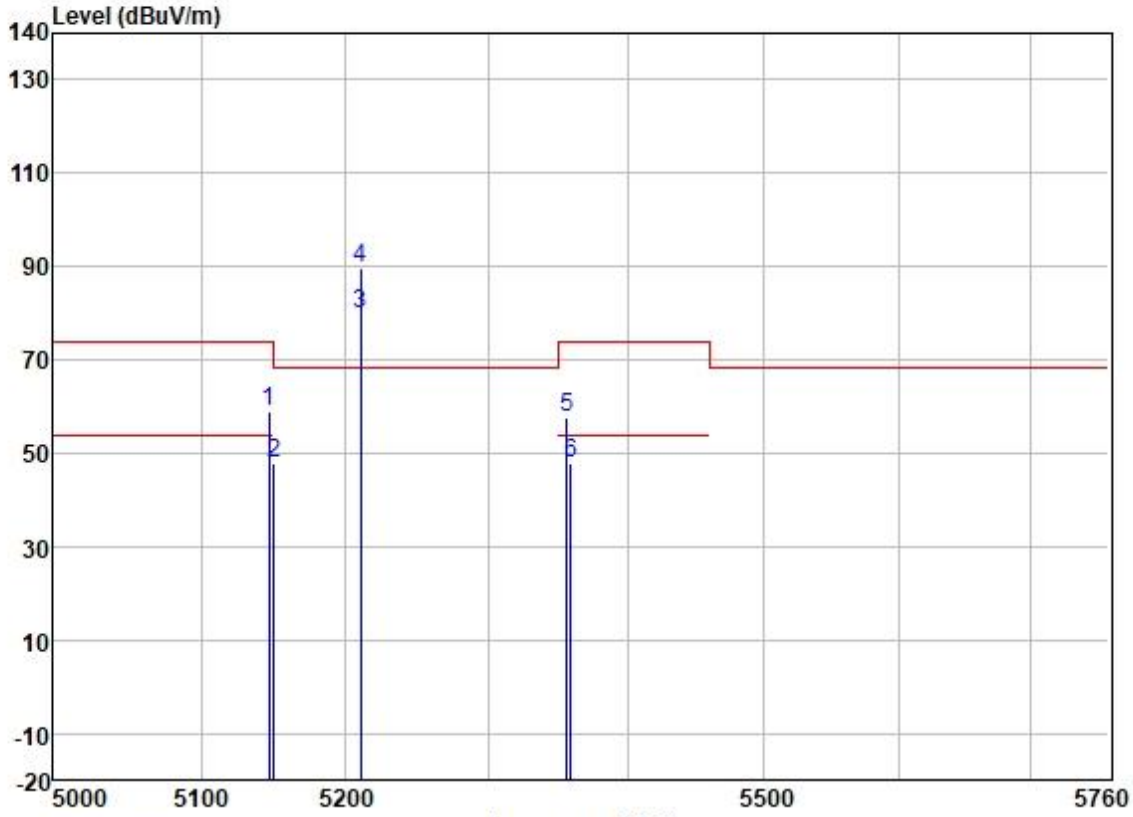
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




Trace: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5230.000 | 82.35 | 31.74 | 5.70 | 36.87 | 82.92 | ------ | ------ | VERTICAL | Average |
| 2 * | 5230.000 | 91.40 | 31.74 | 5.70 | 36.87 | 91.97 | 68.20 | 23.77 | VERTICAL | Peak |
| 3 | 5350.020 | 46.35 | 31.77 | 6.05 | 36.88 | 47.29 | 54.00 | -6.71 | VERTICAL | Average |
| 4 | 5350.020 | 56.83 | 31.77 | 6.05 | 36.88 | 57.77 | 74.00 | -16.23 | VERTICAL | Peak |
| 5 | 5351.073 | 56.81 | 31.77 | 6.05 | 36.88 | 57.75 | 74.00 | -16.25 | VERTICAL | Peak |
| 6 | 5360.000 | 46.48 | 31.78 | 6.03 | 36.88 | 47.41 | 54.00 | -6.59 | VERTICAL | Average |

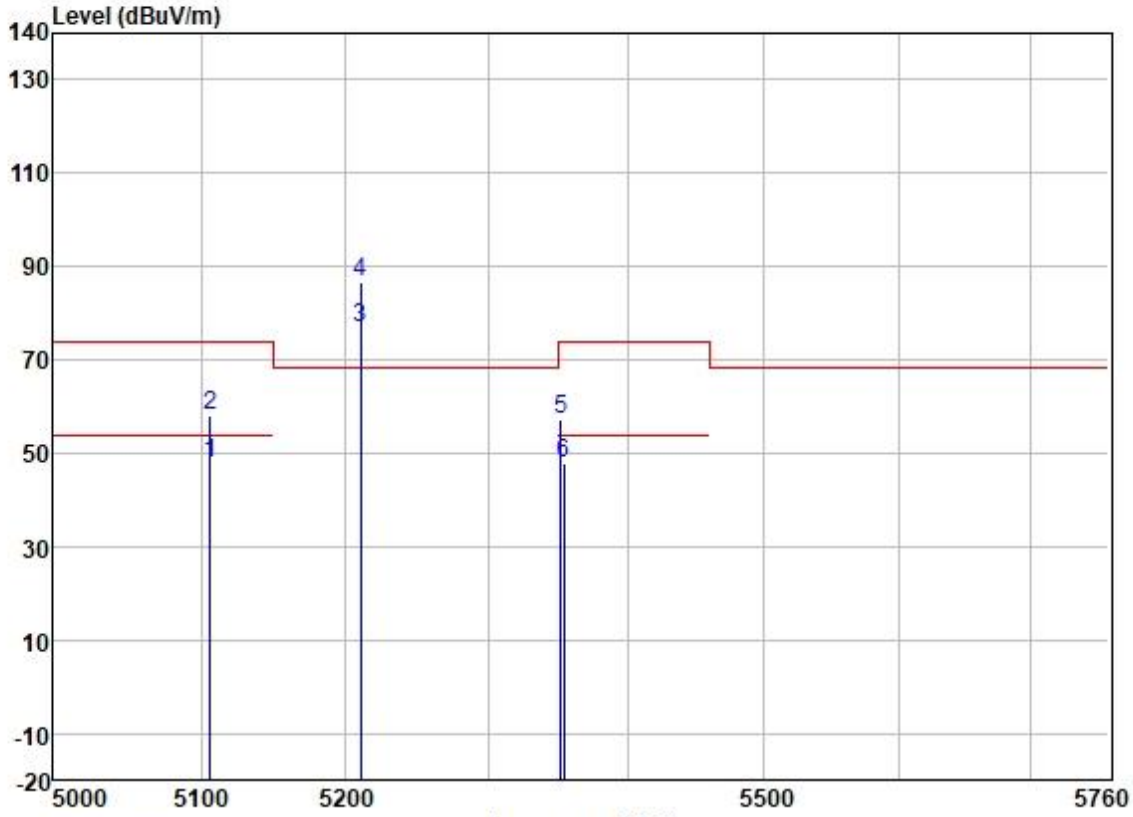
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5146.363 | 58.52 | 31.72 | 5.62 | 36.86 | 59.00 | 74.00 | -15.00 | HORIZONTAL | Peak |
| 2 | | 5149.690 | 47.44 | 31.72 | 5.62 | 36.86 | 47.92 | 54.00 | -6.08 | HORIZONTAL | Average |
| 3 | | 5210.000 | 79.53 | 31.74 | 5.65 | 36.87 | 80.05 | ------ | ------ | HORIZONTAL | Average |
| 4 | * | 5210.000 | 89.19 | 31.74 | 5.65 | 36.87 | 89.71 | 68.20 | 21.51 | HORIZONTAL | Peak |
| 5 | | 5356.537 | 56.84 | 31.78 | 6.03 | 36.88 | 57.77 | 74.00 | -16.23 | HORIZONTAL | Peak |
| 6 | | 5359.201 | 46.96 | 31.78 | 6.03 | 36.88 | 47.89 | 54.00 | -6.11 | HORIZONTAL | Average |

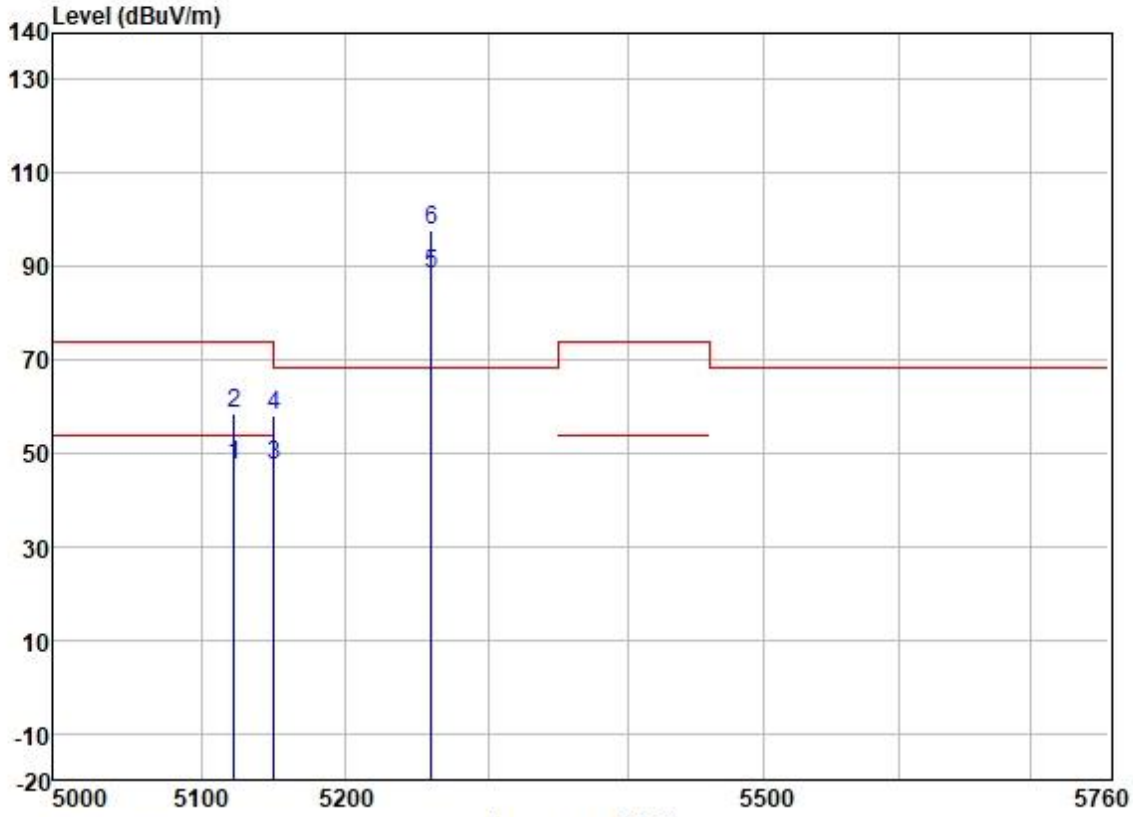
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5106.090 | 47.31 | 31.72 | 5.65 | 36.86 | 47.82 | 54.00 | -6.18 | VERTICAL | Average |
| 2 | | 5106.090 | 57.54 | 31.72 | 5.65 | 36.86 | 58.05 | 74.00 | -15.95 | VERTICAL | Peak |
| 3 | | 5210.000 | 76.21 | 31.74 | 5.65 | 36.87 | 76.73 | ------ | ------ | VERTICAL | Average |
| 4 | * | 5210.000 | 86.24 | 31.74 | 5.65 | 36.87 | 86.76 | 68.20 | 18.56 | VERTICAL | Peak |
| 5 | | 5351.744 | 56.25 | 31.77 | 6.05 | 36.88 | 57.19 | 74.00 | -16.81 | VERTICAL | Peak |
| 6 | | 5353.874 | 46.76 | 31.77 | 6.05 | 36.88 | 47.70 | 54.00 | -6.30 | VERTICAL | Average |

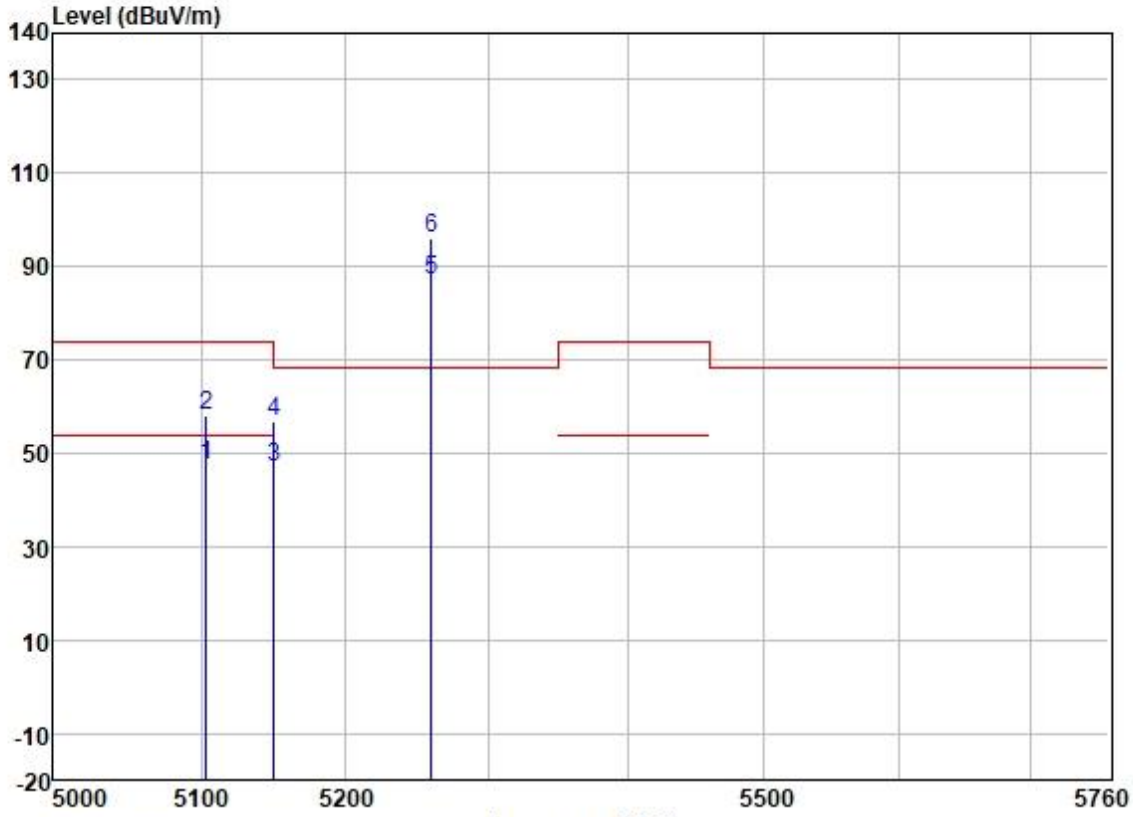
Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5122.338 | 46.79 | 31.72 | 5.64 | 36.86 | 47.29 | 54.00 | -6.71 | HORIZONTAL | Average |
| 2 | | 5122.338 | 57.81 | 31.72 | 5.64 | 36.86 | 58.31 | 74.00 | -15.69 | HORIZONTAL | Peak |
| 3 | | 5149.980 | 46.76 | 31.72 | 5.62 | 36.86 | 47.24 | 54.00 | -6.76 | HORIZONTAL | Average |
| 4 | | 5149.980 | 57.50 | 31.72 | 5.62 | 36.86 | 57.98 | 74.00 | -16.02 | HORIZONTAL | Peak |
| 5 | | 5260.000 | 87.74 | 31.75 | 5.77 | 36.87 | 88.39 | ------ | ------ | HORIZONTAL | Average |
| 6 | * | 5260.000 | 97.02 | 31.75 | 5.77 | 36.87 | 97.67 | 68.20 | 29.47 | HORIZONTAL | Peak |

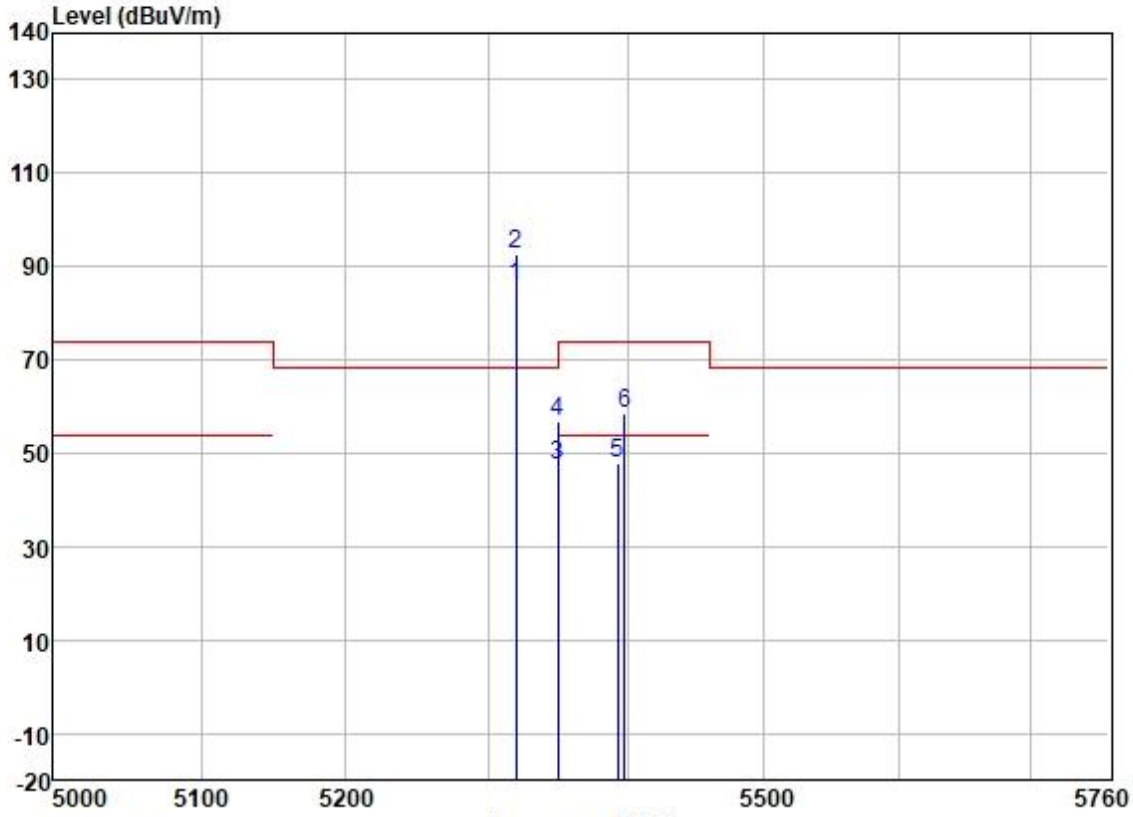
Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | | Freq | ReadLevel | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5103.362 | 46.92 | 31.72 | 5.65 | 36.86 | 47.43 | 54.00 | -6.57 | VERTICAL | Average |
| 2 | | 5103.362 | 57.68 | 31.72 | 5.65 | 36.86 | 58.19 | 74.00 | -15.81 | VERTICAL | Peak |
| 3 | | 5149.980 | 46.66 | 31.72 | 5.62 | 36.86 | 47.14 | 54.00 | -6.86 | VERTICAL | Average |
| 4 | | 5149.980 | 56.23 | 31.72 | 5.62 | 36.86 | 56.71 | 74.00 | -17.29 | VERTICAL | Peak |
| 5 | | 5260.000 | 86.42 | 31.75 | 5.77 | 36.87 | 87.07 | ------ | ------ | VERTICAL | Average |
| 6 | * | 5260.000 | 95.43 | 31.75 | 5.77 | 36.87 | 96.08 | 68.20 | 27.88 | VERTICAL | Peak |

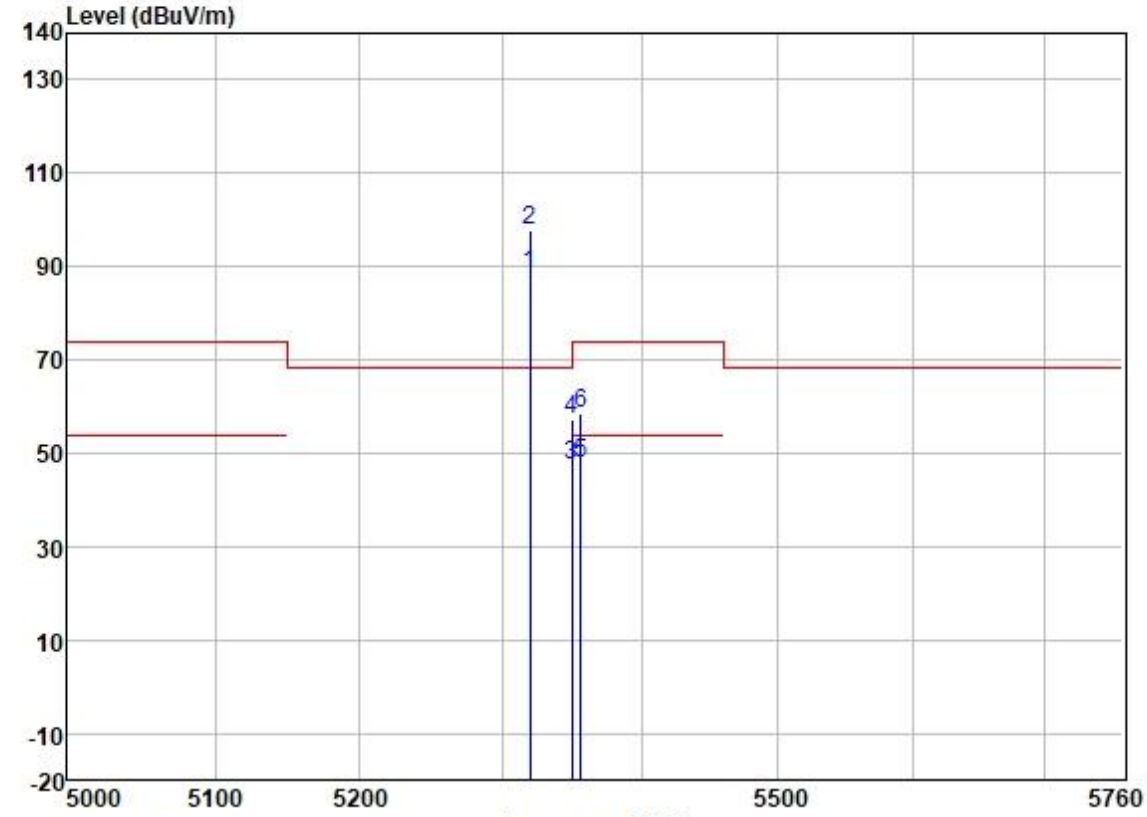
Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5320.000 | 84.92 | 31.77 | 6.08 | 36.88 | 85.89 | ------ | ------ | HORIZONTAL | Average |
| 2 | * | 5320.000 | 91.82 | 31.77 | 6.08 | 36.88 | 92.79 | 68.20 | 24.59 | HORIZONTAL | Peak |
| 3 | | 5350.020 | 46.35 | 31.77 | 6.05 | 36.88 | 47.29 | 54.00 | -6.71 | HORIZONTAL | Average |
| 4 | | 5350.020 | 55.73 | 31.77 | 6.05 | 36.88 | 56.67 | 74.00 | -17.33 | HORIZONTAL | Peak |
| 5 | | 5392.737 | 46.78 | 31.78 | 6.00 | 36.88 | 47.68 | 54.00 | -6.32 | HORIZONTAL | Average |
| 6 | | 5397.780 | 57.61 | 31.78 | 6.00 | 36.88 | 58.51 | 74.00 | -15.49 | HORIZONTAL | Peak |

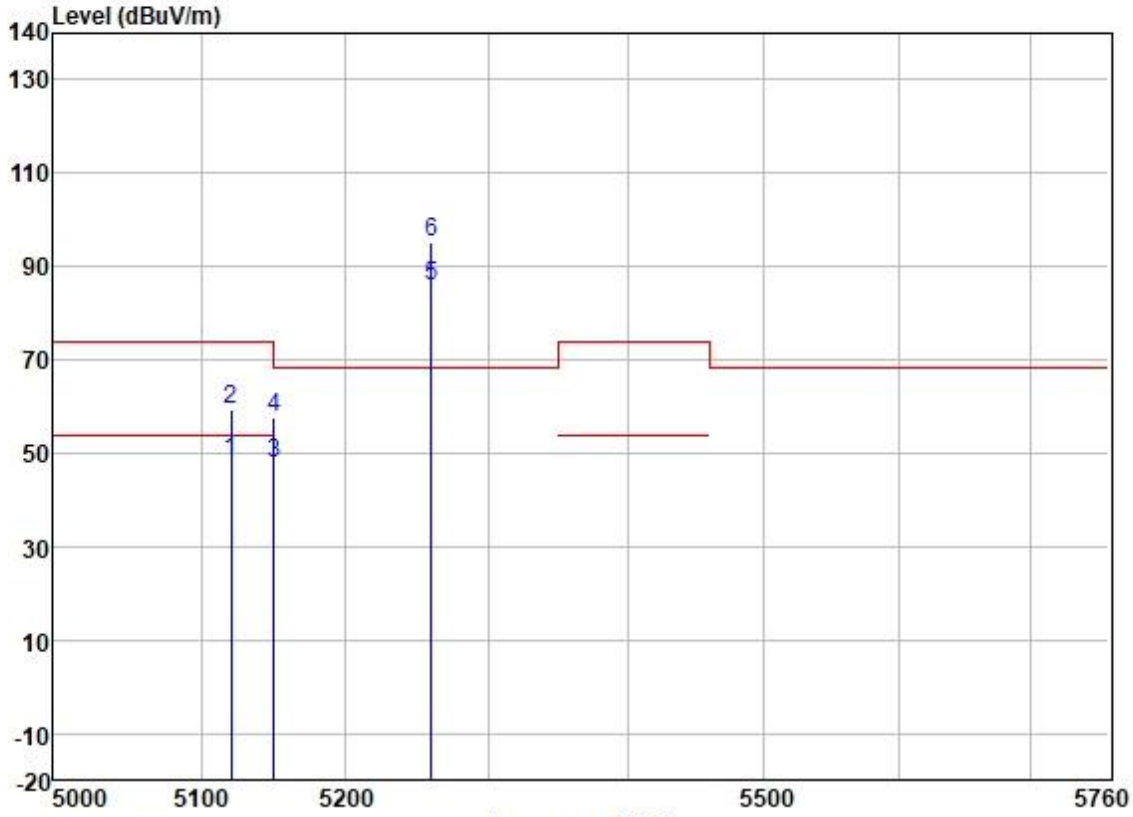
Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High




Trace: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5320.000 | 87.50 | 31.77 | 6.08 | 36.88 | 88.47 | ------ | ------ | VERTICAL | Average |
| 2 | * | 5320.000 | 96.73 | 31.77 | 6.08 | 36.88 | 97.70 | 68.20 | 29.50 | VERTICAL | Peak |
| 3 | | 5350.020 | 46.49 | 31.77 | 6.05 | 36.88 | 47.43 | 54.00 | -6.57 | VERTICAL | Average |
| 4 | | 5350.020 | 56.21 | 31.77 | 6.05 | 36.88 | 57.15 | 74.00 | -16.85 | VERTICAL | Peak |
| 5 | | 5355.970 | 46.74 | 31.78 | 6.03 | 36.88 | 47.67 | 54.00 | -6.33 | VERTICAL | Average |
| 6 | | 5355.970 | 57.47 | 31.78 | 6.03 | 36.88 | 58.40 | 74.00 | -15.60 | VERTICAL | Peak |

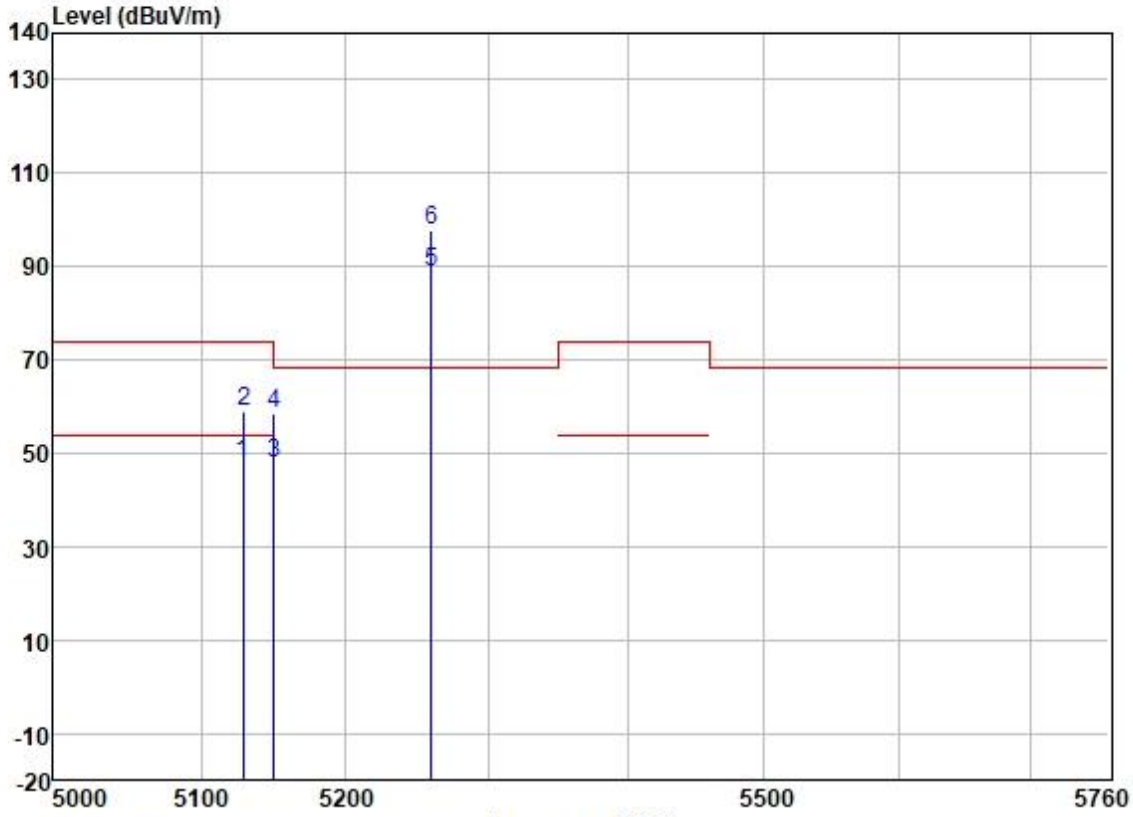
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | | Freq | ReadLevel | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5120.206 | 47.60 | 31.72 | 5.64 | 36.86 | 48.10 | 54.00 | -5.90 | HORIZONTAL | Average |
| 2 | | 5120.206 | 58.77 | 31.72 | 5.64 | 36.86 | 59.27 | 74.00 | -14.73 | HORIZONTAL | Peak |
| 3 | | 5149.980 | 47.47 | 31.72 | 5.62 | 36.86 | 47.95 | 54.00 | -6.05 | HORIZONTAL | Average |
| 4 | | 5149.980 | 57.20 | 31.72 | 5.62 | 36.86 | 57.68 | 74.00 | -16.32 | HORIZONTAL | Peak |
| 5 | | 5260.000 | 85.08 | 31.75 | 5.77 | 36.87 | 85.73 | ------ | ------ | HORIZONTAL | Average |
| 6 | * | 5260.000 | 94.34 | 31.75 | 5.77 | 36.87 | 94.99 | 68.20 | 26.79 | HORIZONTAL | Peak |

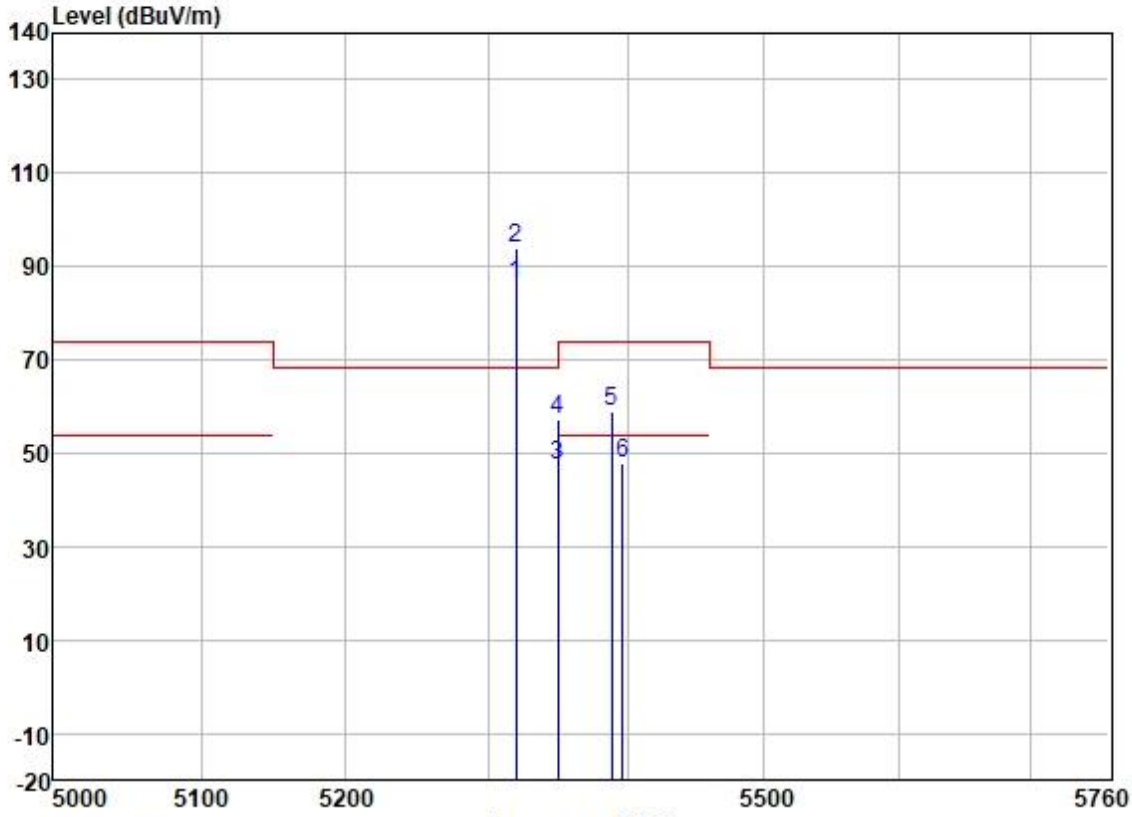
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5129.094 | 47.29 | 31.72 | 5.63 | 36.86 | 47.78 | 54.00 | -6.22 | VERTICAL | Average |
| 2 | 5129.627 | 58.26 | 31.72 | 5.63 | 36.86 | 58.75 | 74.00 | -15.25 | VERTICAL | Peak |
| 3 | 5149.980 | 47.29 | 31.72 | 5.62 | 36.86 | 47.77 | 54.00 | -6.23 | VERTICAL | Average |
| 4 | 5149.980 | 57.86 | 31.72 | 5.62 | 36.86 | 58.34 | 74.00 | -15.66 | VERTICAL | Peak |
| 5 | 5260.000 | 88.26 | 31.75 | 5.77 | 36.87 | 88.91 | ------ | ------ | VERTICAL | Average |
| 6 * | 5260.000 | 97.09 | 31.75 | 5.77 | 36.87 | 97.74 | 68.20 | 29.54 | VERTICAL | Peak |

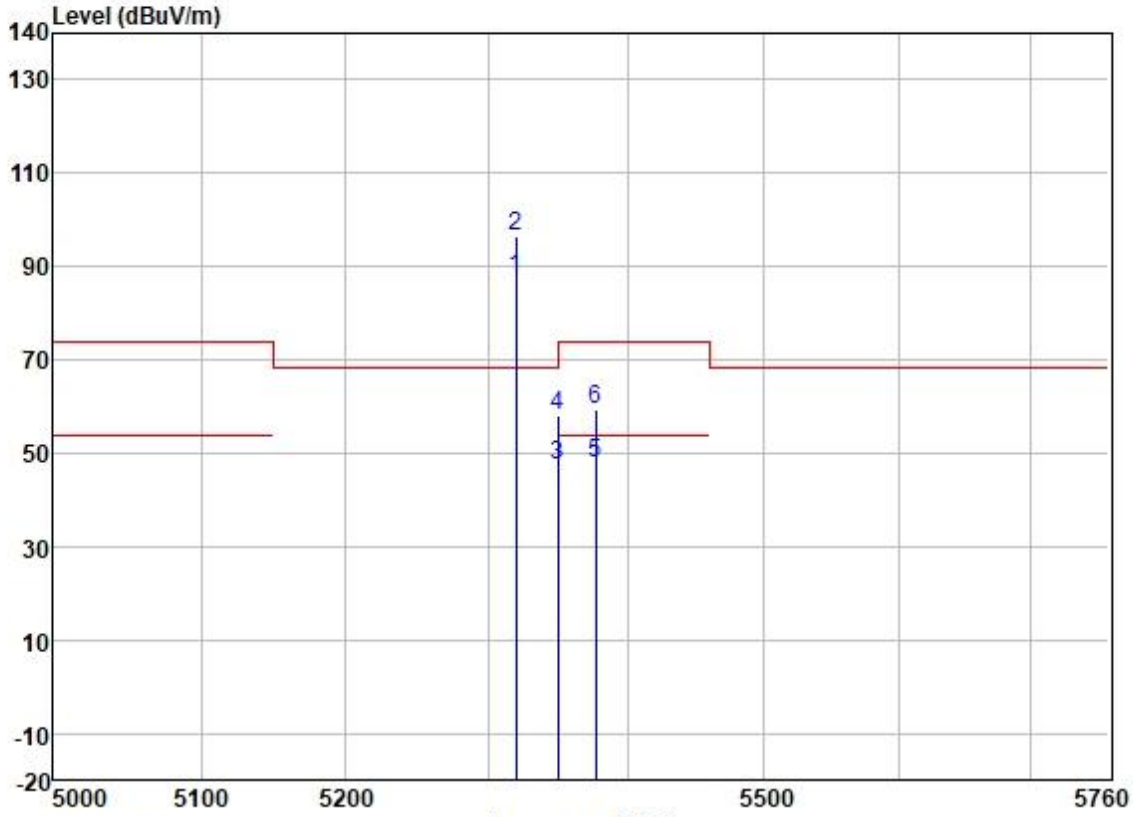
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5320.000 | 85.19 | 31.77 | 6.08 | 36.88 | 86.16 | ------ | ------ | HORIZONTAL | Average |
| 2 | * | 5320.000 | 92.76 | 31.77 | 6.08 | 36.88 | 93.73 | 68.20 | 25.53 | HORIZONTAL | Peak |
| 3 | | 5350.020 | 46.53 | 31.77 | 6.05 | 36.88 | 47.47 | 54.00 | -6.53 | HORIZONTAL | Average |
| 4 | | 5350.020 | 56.19 | 31.77 | 6.05 | 36.88 | 57.13 | 74.00 | -16.87 | HORIZONTAL | Peak |
| 5 | | 5388.707 | 58.08 | 31.78 | 6.00 | 36.88 | 58.98 | 74.00 | -15.02 | HORIZONTAL | Peak |
| 6 | | 5396.267 | 47.09 | 31.78 | 6.00 | 36.88 | 47.99 | 54.00 | -6.01 | HORIZONTAL | Average |

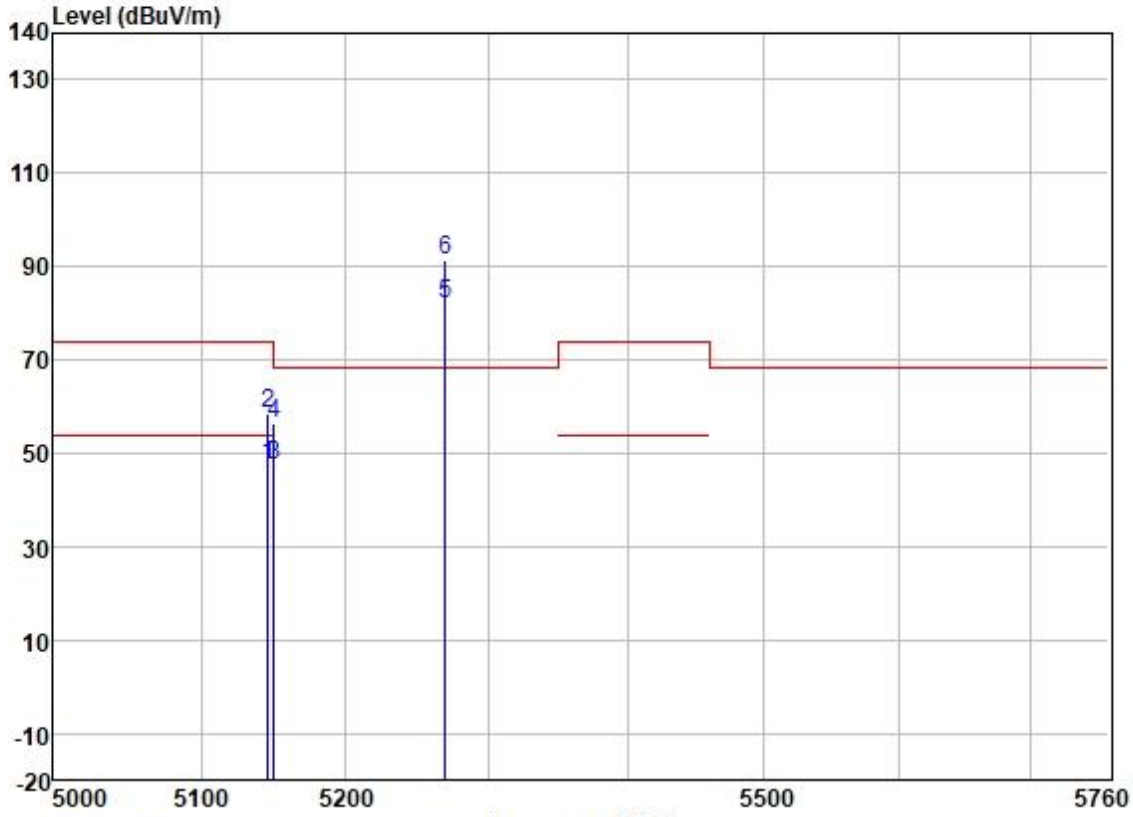
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | ReadLevel | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5320.000 | 86.66 | 31.77 | 6.08 | 36.88 | 87.63 | ------ | ------ | VERTICAL | Average |
| 2 | * | 5320.000 | 95.65 | 31.77 | 6.08 | 36.88 | 96.62 | 68.20 | 28.42 | VERTICAL | Peak |
| 3 | | 5350.020 | 46.57 | 31.77 | 6.05 | 36.88 | 47.51 | 54.00 | -6.49 | VERTICAL | Average |
| 4 | | 5350.020 | 56.97 | 31.77 | 6.05 | 36.88 | 57.91 | 74.00 | -16.09 | VERTICAL | Peak |
| 5 | | 5377.035 | 47.05 | 31.78 | 6.02 | 36.88 | 47.97 | 54.00 | -6.03 | VERTICAL | Average |
| 6 | | 5377.035 | 58.46 | 31.78 | 6.02 | 36.88 | 59.38 | 74.00 | -14.62 | VERTICAL | Peak |

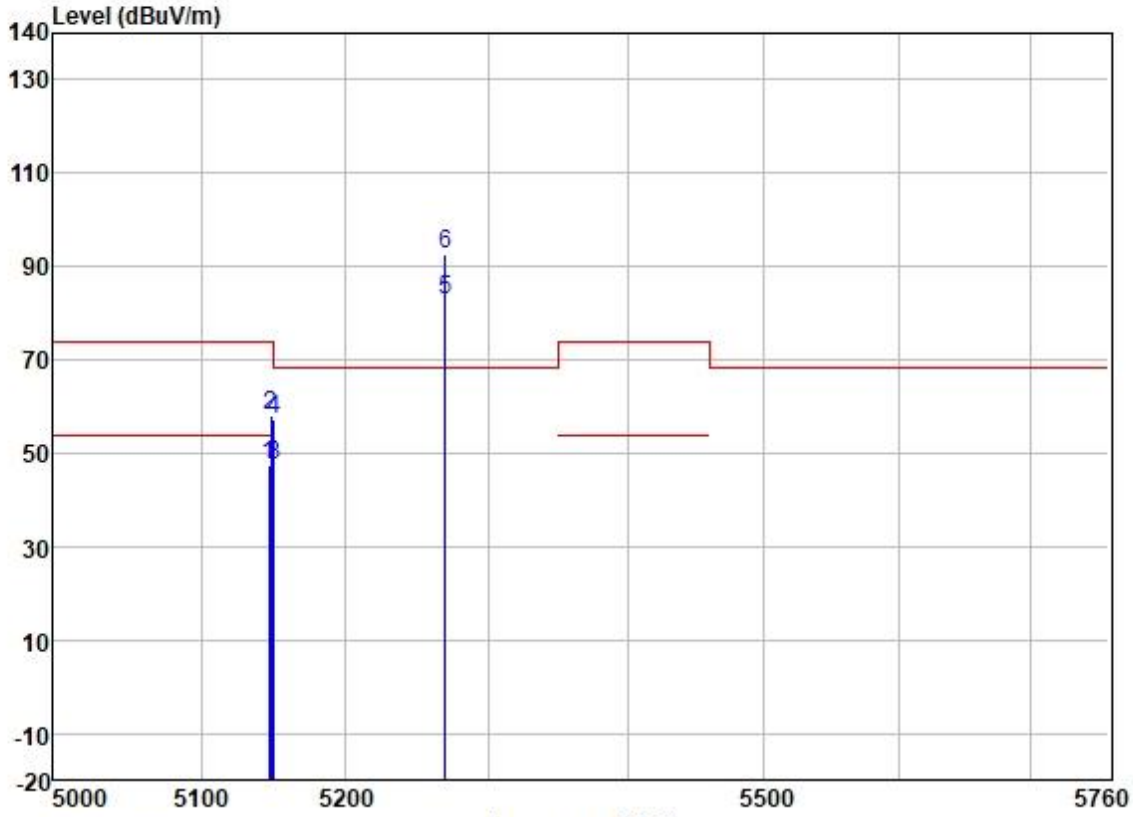
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5145.717 | 47.07 | 31.72 | 5.62 | 36.86 | 47.55 | 54.00 | -6.45 | HORIZONTAL | Average |
| 2 | | 5145.717 | 58.07 | 31.72 | 5.62 | 36.86 | 58.55 | 74.00 | -15.45 | HORIZONTAL | Peak |
| 3 | | 5149.980 | 46.85 | 31.72 | 5.62 | 36.86 | 47.33 | 54.00 | -6.67 | HORIZONTAL | Average |
| 4 | | 5149.980 | 56.09 | 31.72 | 5.62 | 36.86 | 56.57 | 74.00 | -17.43 | HORIZONTAL | Peak |
| 5 | | 5270.000 | 81.39 | 31.75 | 5.80 | 36.87 | 82.07 | ------ | ------ | HORIZONTAL | Average |
| 6 | * | 5270.000 | 90.80 | 31.75 | 5.80 | 36.87 | 91.48 | 68.20 | 23.28 | HORIZONTAL | Peak |

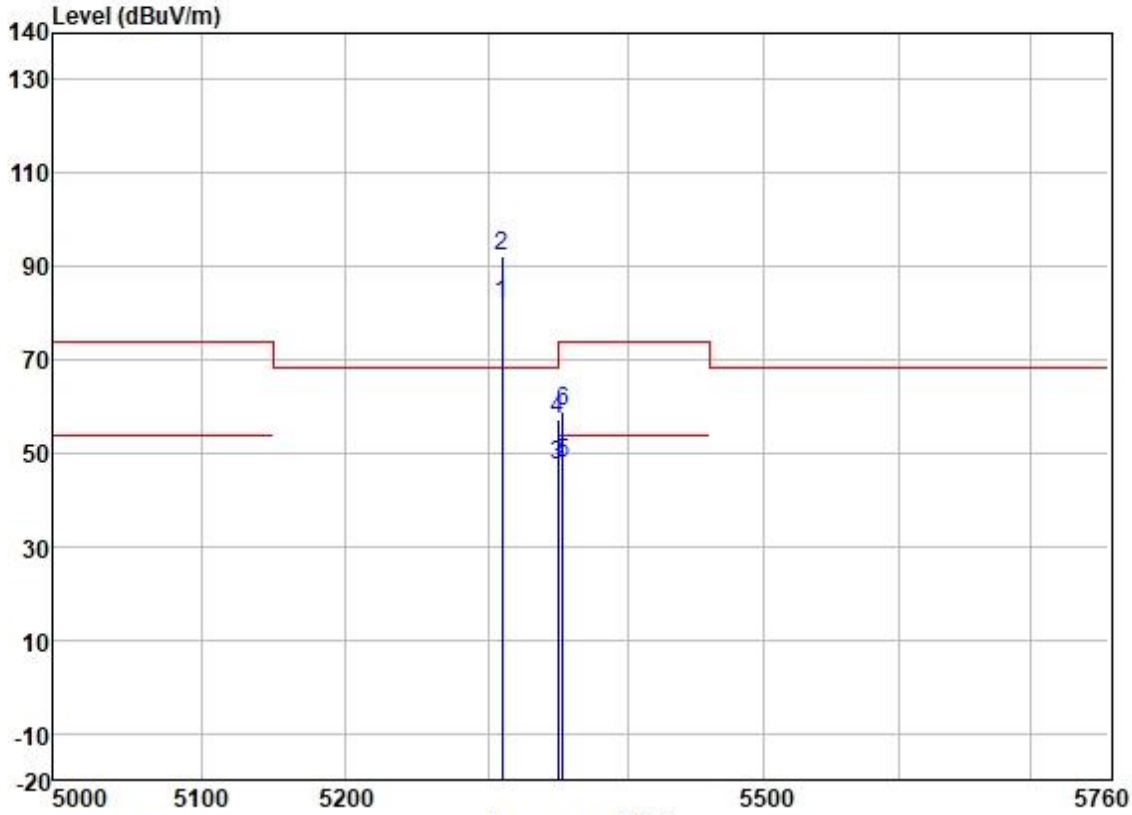
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




race: (Discrete)

| | | Freq | ReadLevel | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5146.905 | 47.01 | 31.72 | 5.62 | 36.86 | 47.49 | 54.00 | -6.51 | VERTICAL | Average |
| 2 | | 5147.697 | 57.61 | 31.72 | 5.62 | 36.86 | 58.09 | 74.00 | -15.91 | VERTICAL | Peak |
| 3 | | 5149.980 | 46.78 | 31.72 | 5.62 | 36.86 | 47.26 | 54.00 | -6.74 | VERTICAL | Average |
| 4 | | 5149.980 | 56.57 | 31.72 | 5.62 | 36.86 | 57.05 | 74.00 | -16.95 | VERTICAL | Peak |
| 5 | | 5270.000 | 82.28 | 31.75 | 5.80 | 36.87 | 82.96 | ------ | ------ | VERTICAL | Average |
| 6 | * | 5270.000 | 91.79 | 31.75 | 5.80 | 36.87 | 92.47 | 68.20 | 24.27 | VERTICAL | Peak |

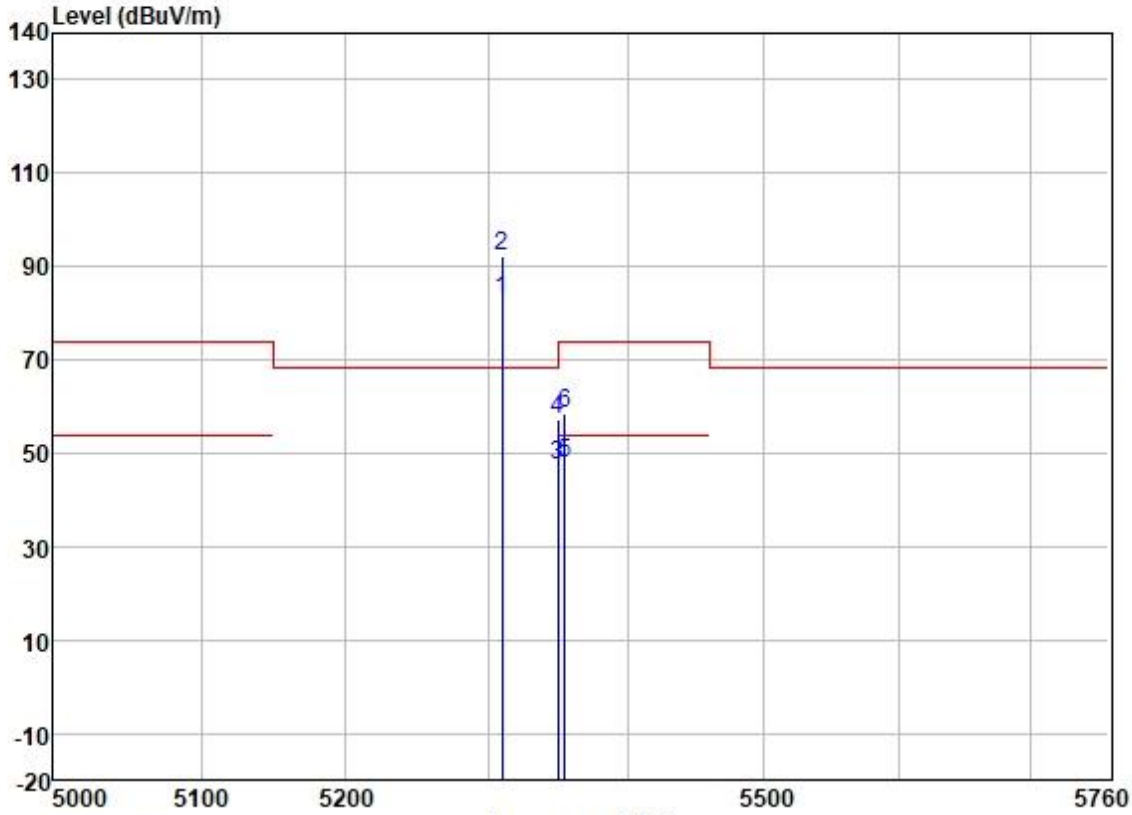
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5310.000 | 81.01 | 31.77 | 6.08 | 36.87 | 81.99 | ------ | ------ | HORIZONTAL | Average |
| 2 | * | 5310.000 | 91.05 | 31.77 | 6.08 | 36.87 | 92.03 | 68.20 | 23.83 | HORIZONTAL | Peak |
| 3 | | 5350.020 | 46.45 | 31.77 | 6.05 | 36.88 | 47.39 | 54.00 | -6.61 | HORIZONTAL | Average |
| 4 | | 5350.020 | 56.26 | 31.77 | 6.05 | 36.88 | 57.20 | 74.00 | -16.80 | HORIZONTAL | Peak |
| 5 | | 5353.120 | 46.87 | 31.77 | 6.05 | 36.88 | 47.81 | 54.00 | -6.19 | HORIZONTAL | Average |
| 6 | | 5353.120 | 57.81 | 31.77 | 6.05 | 36.88 | 58.75 | 74.00 | -15.25 | HORIZONTAL | Peak |

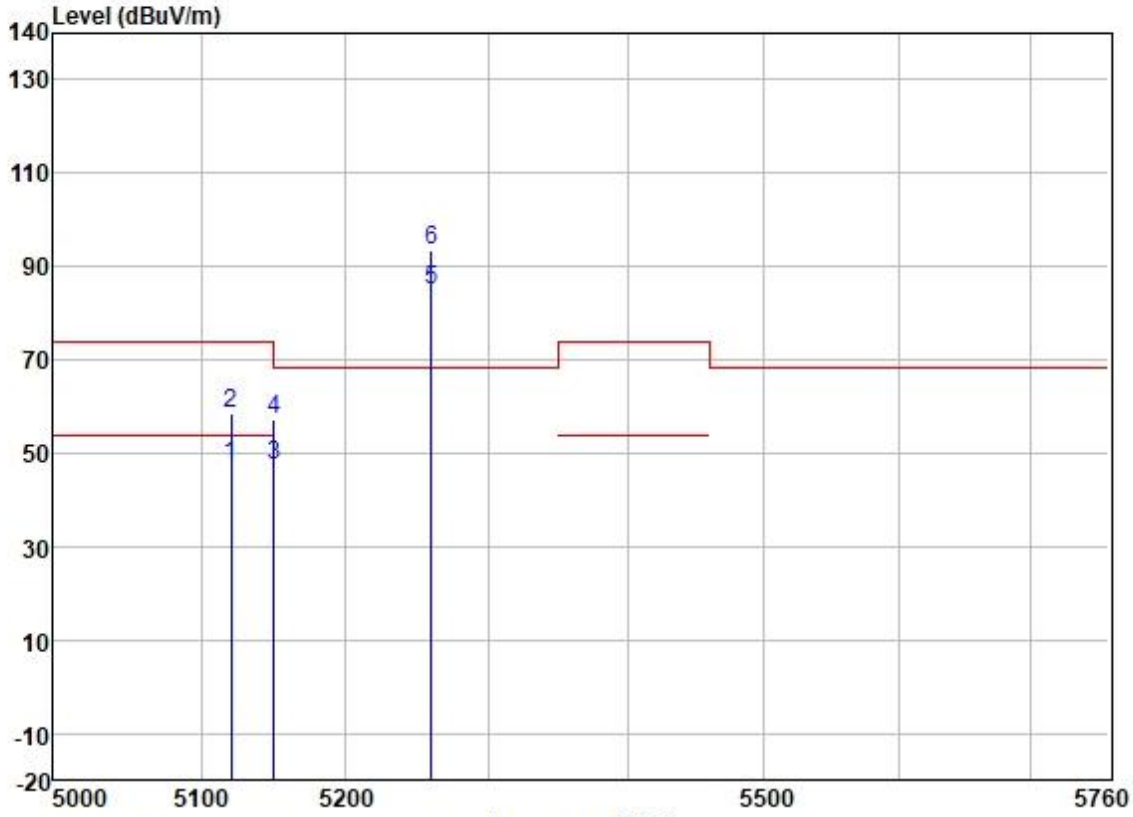
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




Trace: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5310.000 | 81.88 | 31.77 | 6.08 | 36.87 | 82.86 | ------ | ------ | VERTICAL | Average |
| 2 | * | 5310.000 | 91.12 | 31.77 | 6.08 | 36.87 | 92.10 | 68.20 | 23.90 | VERTICAL | Peak |
| 3 | | 5350.020 | 46.52 | 31.77 | 6.05 | 36.88 | 47.46 | 54.00 | -6.54 | VERTICAL | Average |
| 4 | | 5350.020 | 56.27 | 31.77 | 6.05 | 36.88 | 57.21 | 74.00 | -16.79 | VERTICAL | Peak |
| 5 | | 5355.045 | 46.88 | 31.78 | 6.03 | 36.88 | 47.81 | 54.00 | -6.19 | VERTICAL | Average |
| 6 | | 5355.045 | 57.61 | 31.78 | 6.03 | 36.88 | 58.54 | 74.00 | -15.46 | VERTICAL | Peak |

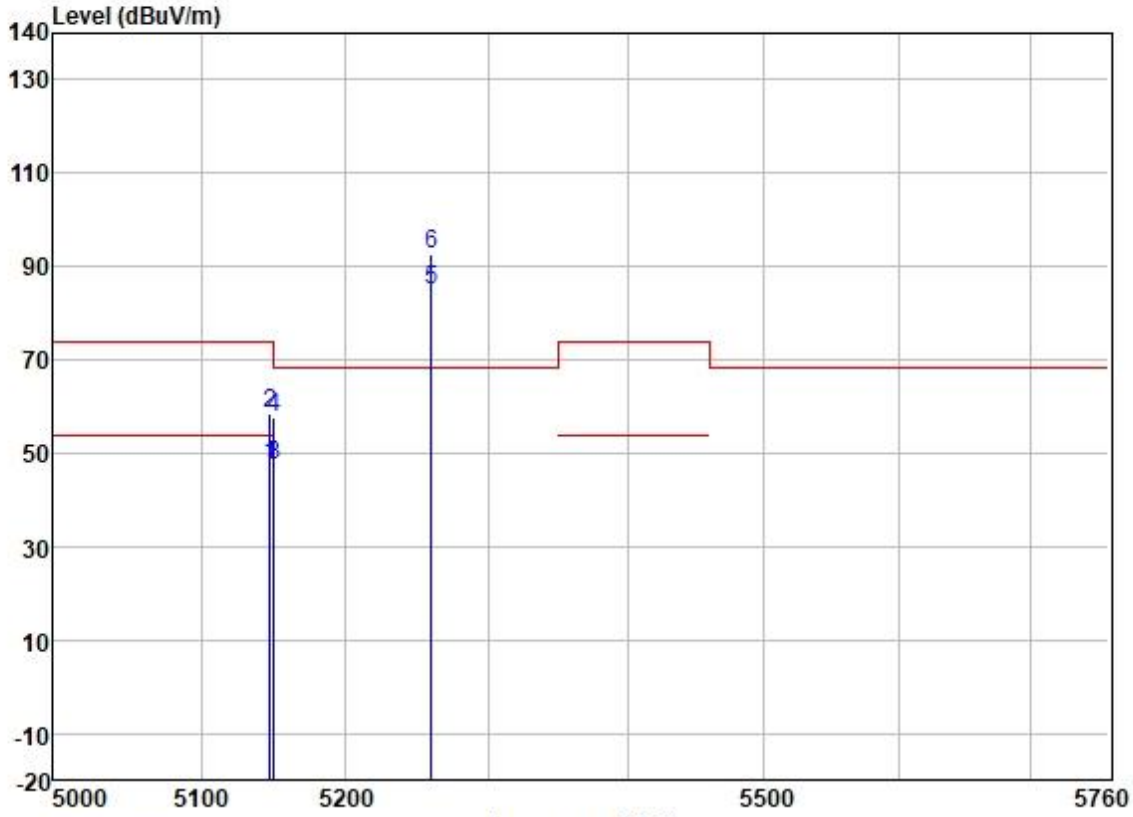
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5120.384 | 46.93 | 31.72 | 5.64 | 36.86 | 47.43 | 54.00 | -6.57 | HORIZONTAL | Average |
| 2 | | 5120.384 | 57.92 | 31.72 | 5.64 | 36.86 | 58.42 | 74.00 | -15.58 | HORIZONTAL | Peak |
| 3 | | 5149.980 | 46.82 | 31.72 | 5.62 | 36.86 | 47.30 | 54.00 | -6.70 | HORIZONTAL | Average |
| 4 | | 5149.980 | 56.59 | 31.72 | 5.62 | 36.86 | 57.07 | 74.00 | -16.93 | HORIZONTAL | Peak |
| 5 | | 5260.000 | 84.20 | 31.75 | 5.77 | 36.87 | 84.85 | ------ | ------ | HORIZONTAL | Average |
| 6 | * | 5260.000 | 92.94 | 31.75 | 5.77 | 36.87 | 93.59 | 68.20 | 25.39 | HORIZONTAL | Peak |

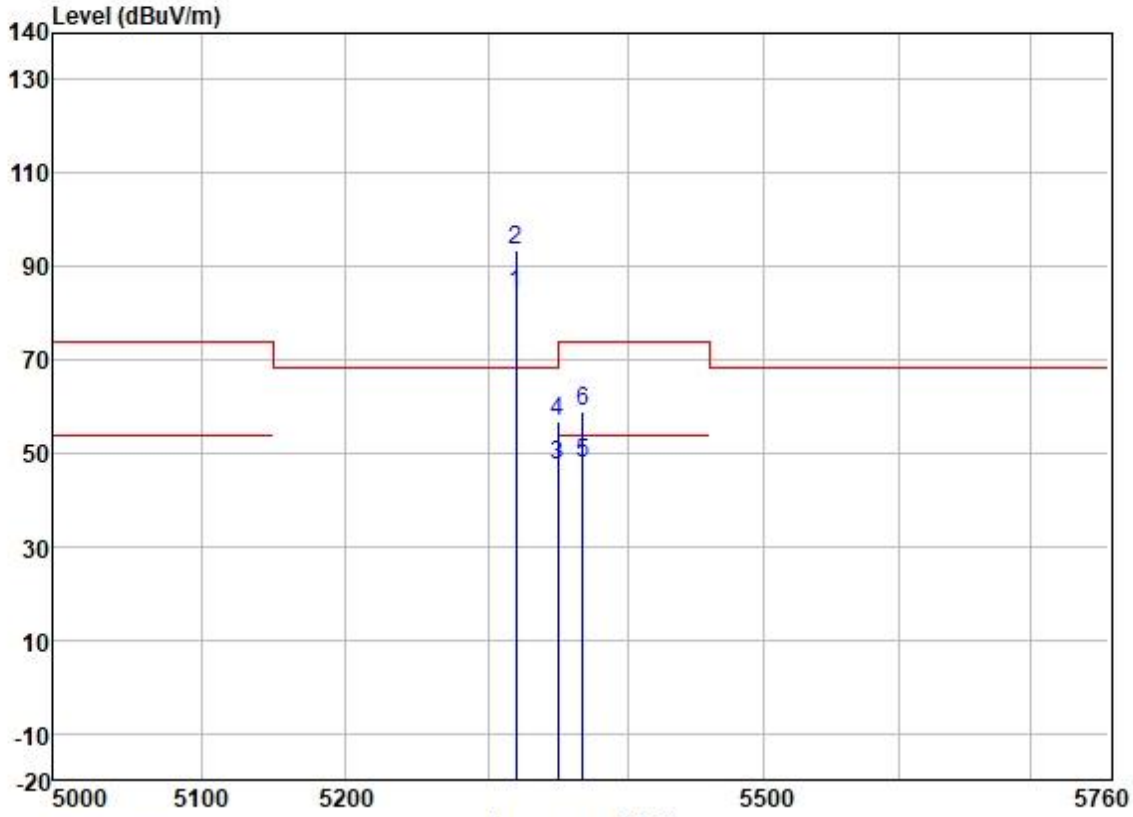
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5147.094 | 46.97 | 31.72 | 5.62 | 36.86 | 47.45 | 54.00 | -6.55 | VERTICAL | Average |
| 2 | 5147.094 | 57.98 | 31.72 | 5.62 | 36.86 | 58.46 | 74.00 | -15.54 | VERTICAL | Peak |
| 3 | 5149.980 | 46.87 | 31.72 | 5.62 | 36.86 | 47.35 | 54.00 | -6.65 | VERTICAL | Average |
| 4 | 5149.980 | 57.10 | 31.72 | 5.62 | 36.86 | 57.58 | 74.00 | -16.42 | VERTICAL | Peak |
| 5 | 5260.000 | 84.33 | 31.75 | 5.77 | 36.87 | 84.98 | ------ | ------ | VERTICAL | Average |
| 6 * | 5260.000 | 92.06 | 31.75 | 5.77 | 36.87 | 92.71 | 68.20 | 24.51 | VERTICAL | Peak |

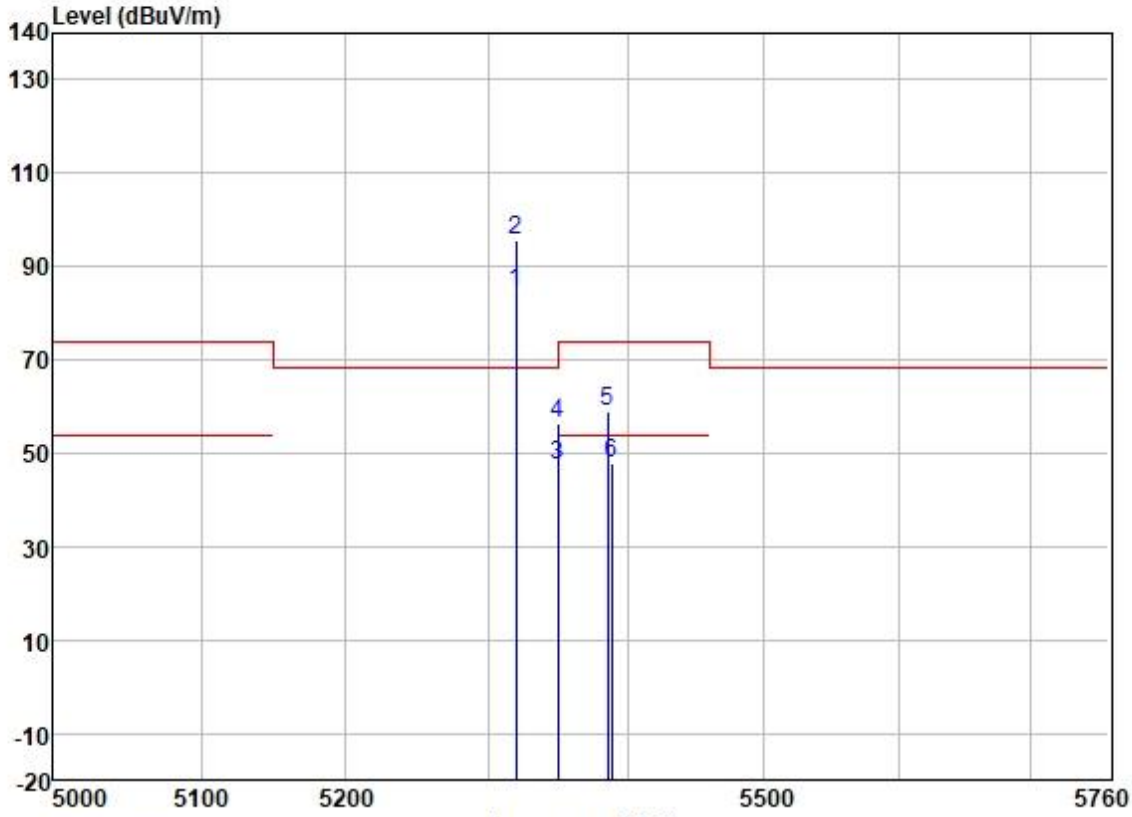
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5320.000 | 83.24 | 31.77 | 6.08 | 36.88 | 84.21 | ------ | ------ | HORIZONTAL | Average |
| 2 | * | 5320.000 | 92.46 | 31.77 | 6.08 | 36.88 | 93.43 | 68.20 | 25.23 | HORIZONTAL | Peak |
| 3 | | 5350.020 | 46.42 | 31.77 | 6.05 | 36.88 | 47.36 | 54.00 | -6.64 | HORIZONTAL | Average |
| 4 | | 5350.020 | 56.06 | 31.77 | 6.05 | 36.88 | 57.00 | 74.00 | -17.00 | HORIZONTAL | Peak |
| 5 | | 5367.596 | 46.85 | 31.78 | 6.03 | 36.88 | 47.78 | 54.00 | -6.22 | HORIZONTAL | Average |
| 6 | | 5367.596 | 58.21 | 31.78 | 6.03 | 36.88 | 59.14 | 74.00 | -14.86 | HORIZONTAL | Peak |

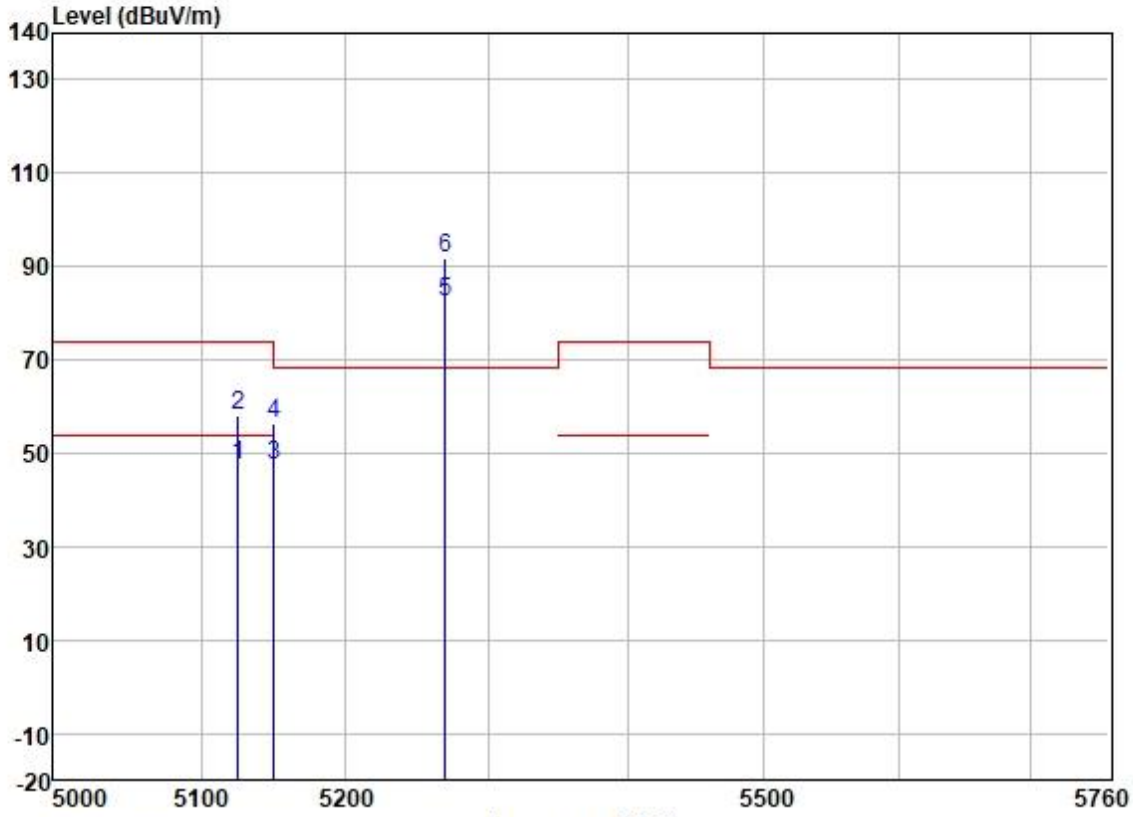
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5320.000 | 83.63 | 31.77 | 6.08 | 36.88 | 84.60 | ------ | ------ | VERTICAL | Average |
| 2 | * | 5320.000 | 94.72 | 31.77 | 6.08 | 36.88 | 95.69 | 68.20 | 27.49 | VERTICAL | Peak |
| 3 | | 5350.020 | 46.41 | 31.77 | 6.05 | 36.88 | 47.35 | 54.00 | -6.65 | VERTICAL | Average |
| 4 | | 5350.020 | 55.52 | 31.77 | 6.05 | 36.88 | 56.46 | 74.00 | -17.54 | VERTICAL | Peak |
| 5 | | 5385.484 | 57.95 | 31.78 | 6.00 | 36.88 | 58.85 | 74.00 | -15.15 | VERTICAL | Peak |
| 6 | | 5388.505 | 46.84 | 31.78 | 6.00 | 36.88 | 47.74 | 54.00 | -6.26 | VERTICAL | Average |

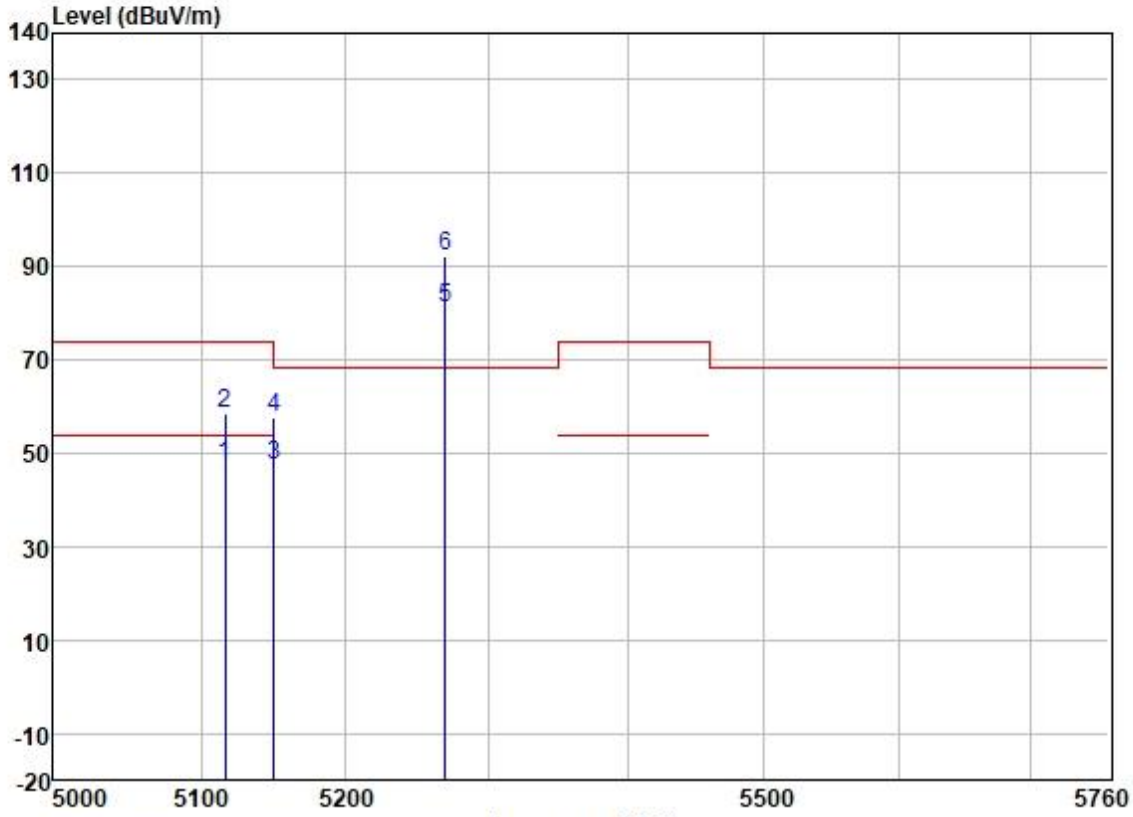
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




race: (Discrete)

| | | Freq | ReadLevel | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5125.370 | 46.95 | 31.72 | 5.64 | 36.86 | 47.45 | 54.00 | -6.55 | HORIZONTAL | Average |
| 2 | | 5125.370 | 57.52 | 31.72 | 5.64 | 36.86 | 58.02 | 74.00 | -15.98 | HORIZONTAL | Peak |
| 3 | | 5149.980 | 46.84 | 31.72 | 5.62 | 36.86 | 47.32 | 54.00 | -6.68 | HORIZONTAL | Average |
| 4 | | 5149.980 | 55.96 | 31.72 | 5.62 | 36.86 | 56.44 | 74.00 | -17.56 | HORIZONTAL | Peak |
| 5 | | 5270.000 | 81.52 | 31.75 | 5.80 | 36.87 | 82.20 | ------ | ------ | HORIZONTAL | Average |
| 6 | * | 5270.000 | 90.97 | 31.75 | 5.80 | 36.87 | 91.65 | 68.20 | 23.45 | HORIZONTAL | Peak |

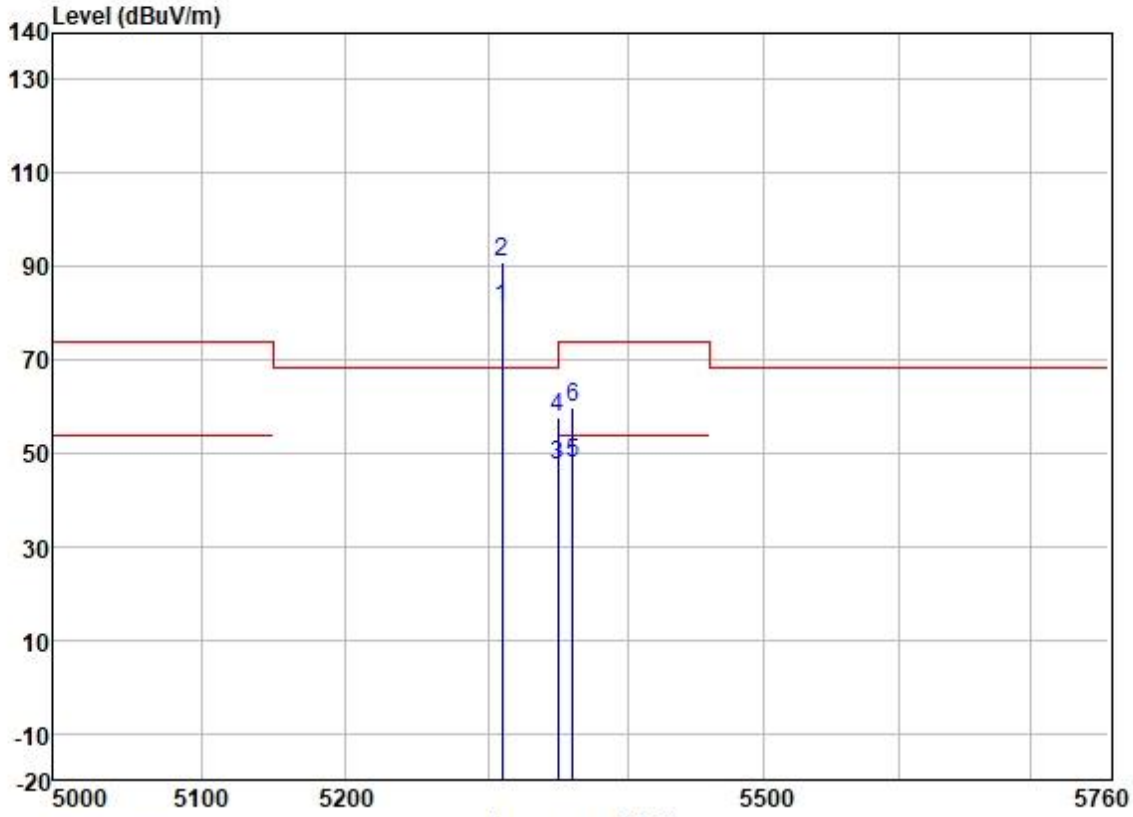
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5116.703 | 46.93 | 31.72 | 5.64 | 36.86 | 47.43 | 54.00 | -6.57 | VERTICAL | Average |
| 2 | | 5116.703 | 58.17 | 31.72 | 5.64 | 36.86 | 58.67 | 74.00 | -15.33 | VERTICAL | Peak |
| 3 | | 5149.980 | 46.76 | 31.72 | 5.62 | 36.86 | 47.24 | 54.00 | -6.76 | VERTICAL | Average |
| 4 | | 5149.980 | 57.30 | 31.72 | 5.62 | 36.86 | 57.78 | 74.00 | -16.22 | VERTICAL | Peak |
| 5 | | 5270.000 | 80.60 | 31.75 | 5.80 | 36.87 | 81.28 | ------ | ------ | VERTICAL | Average |
| 6 | * | 5270.000 | 91.33 | 31.75 | 5.80 | 36.87 | 92.01 | 68.20 | 23.81 | VERTICAL | Peak |

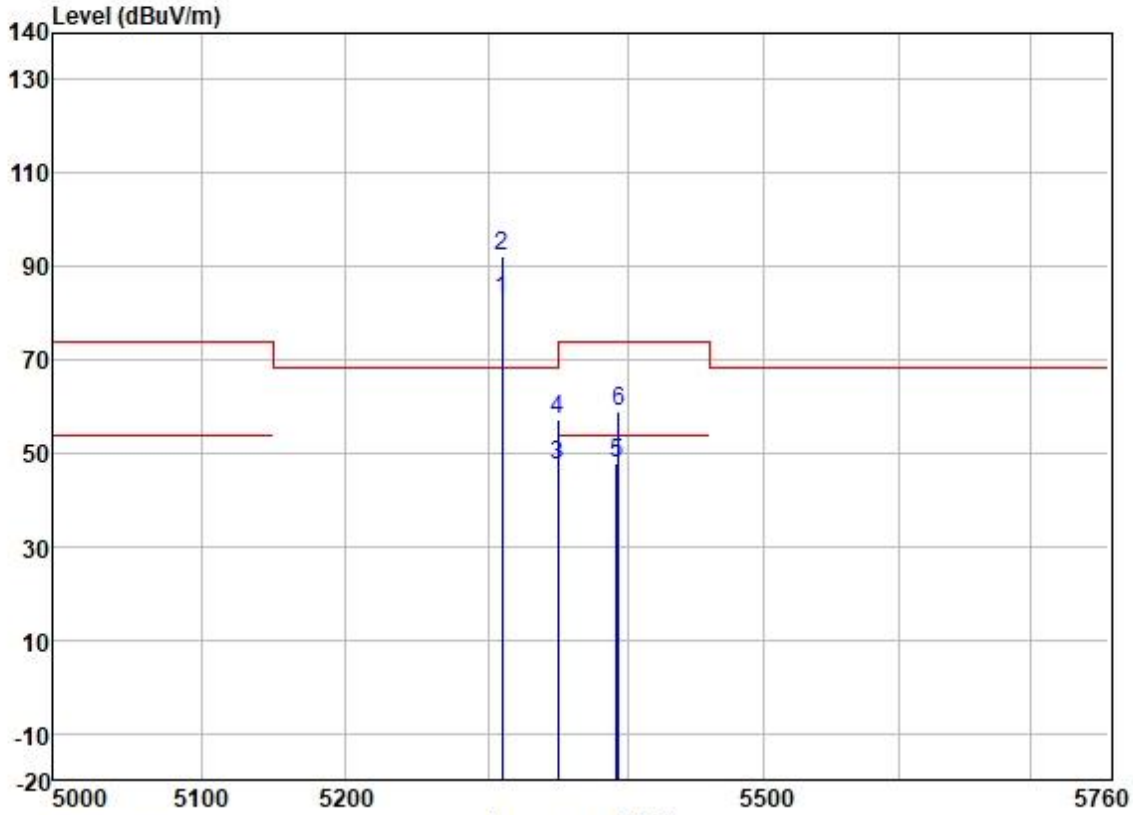
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5310.000 | 80.01 | 31.77 | 6.08 | 36.87 | 80.99 | ------ | ------ | HORIZONTAL | Average |
| 2 | * | 5310.000 | 89.78 | 31.77 | 6.08 | 36.87 | 90.76 | 68.20 | 22.56 | HORIZONTAL | Peak |
| 3 | | 5350.020 | 46.35 | 31.77 | 6.05 | 36.88 | 47.29 | 54.00 | -6.71 | HORIZONTAL | Average |
| 4 | | 5350.020 | 56.73 | 31.77 | 6.05 | 36.88 | 57.67 | 74.00 | -16.33 | HORIZONTAL | Peak |
| 5 | | 5360.463 | 46.84 | 31.78 | 6.03 | 36.88 | 47.77 | 54.00 | -6.23 | HORIZONTAL | Average |
| 6 | | 5360.463 | 58.81 | 31.78 | 6.03 | 36.88 | 59.74 | 74.00 | -14.26 | HORIZONTAL | Peak |

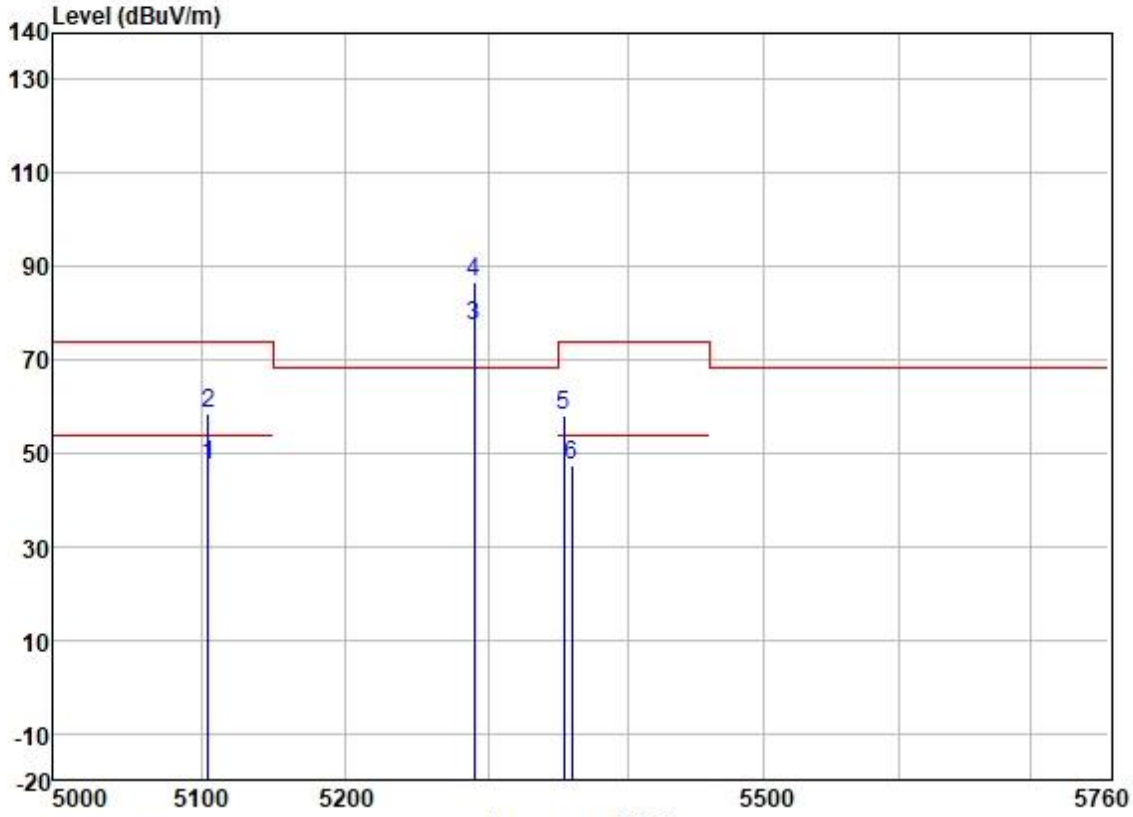
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




Trace: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5310.000 | 81.85 | 31.77 | 6.08 | 36.87 | 82.83 | ------ | ------ | VERTICAL | Average |
| 2 | * | 5310.000 | 91.06 | 31.77 | 6.08 | 36.87 | 92.04 | 68.20 | 23.84 | VERTICAL | Peak |
| 3 | | 5350.020 | 46.56 | 31.77 | 6.05 | 36.88 | 47.50 | 54.00 | -6.50 | VERTICAL | Average |
| 4 | | 5350.020 | 56.40 | 31.77 | 6.05 | 36.88 | 57.34 | 74.00 | -16.66 | VERTICAL | Peak |
| 5 | | 5392.239 | 46.94 | 31.78 | 6.00 | 36.88 | 47.84 | 54.00 | -6.16 | VERTICAL | Average |
| 6 | | 5393.572 | 57.97 | 31.78 | 6.00 | 36.88 | 58.87 | 74.00 | -15.13 | VERTICAL | Peak |

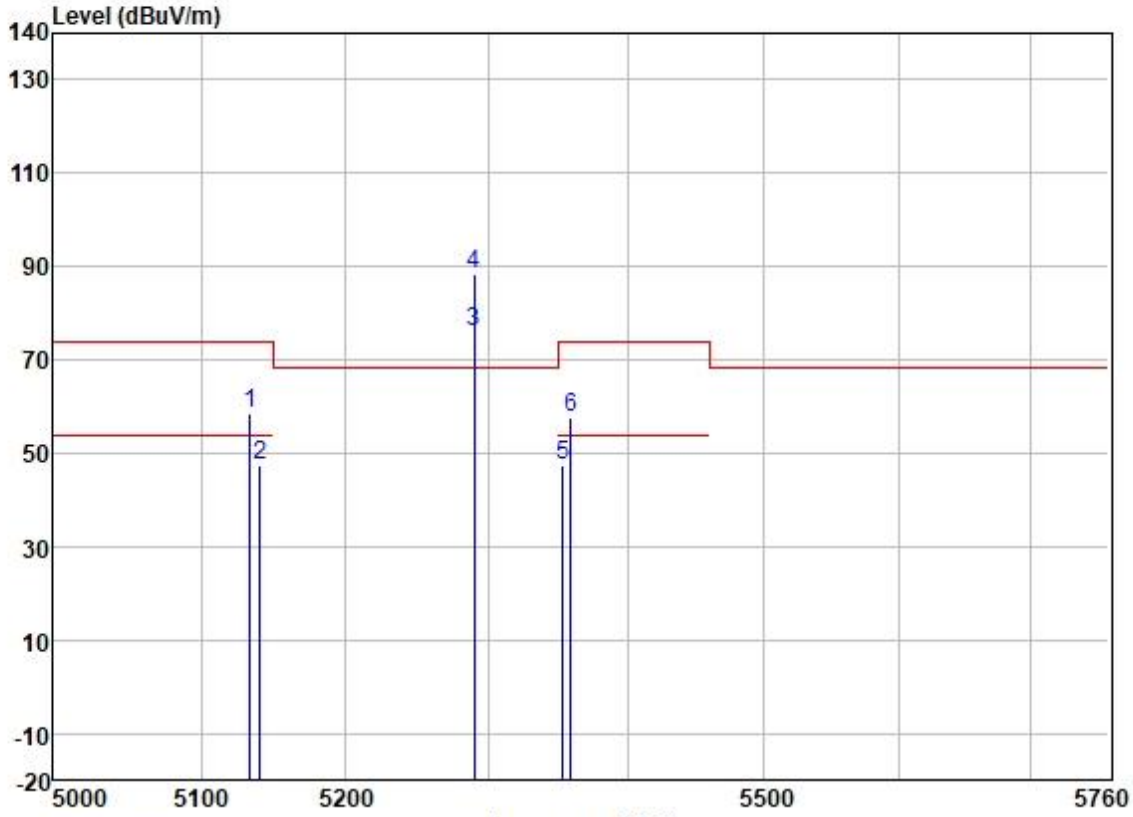
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5104.667 | 46.91 | 31.72 | 5.65 | 36.86 | 47.42 | 54.00 | -6.58 | HORIZONTAL | Average |
| 2 | | 5104.667 | 57.92 | 31.72 | 5.65 | 36.86 | 58.43 | 74.00 | -15.57 | HORIZONTAL | Peak |
| 3 | | 5290.000 | 76.21 | 31.76 | 6.00 | 36.87 | 77.10 | ------ | ------ | HORIZONTAL | Average |
| 4 | * | 5290.000 | 85.65 | 31.76 | 6.00 | 36.87 | 86.54 | 68.20 | 18.34 | HORIZONTAL | Peak |
| 5 | | 5354.206 | 57.08 | 31.78 | 6.03 | 36.88 | 58.01 | 74.00 | -15.99 | HORIZONTAL | Peak |
| 6 | | 5359.411 | 46.67 | 31.78 | 6.03 | 36.88 | 47.60 | 54.00 | -6.40 | HORIZONTAL | Average |

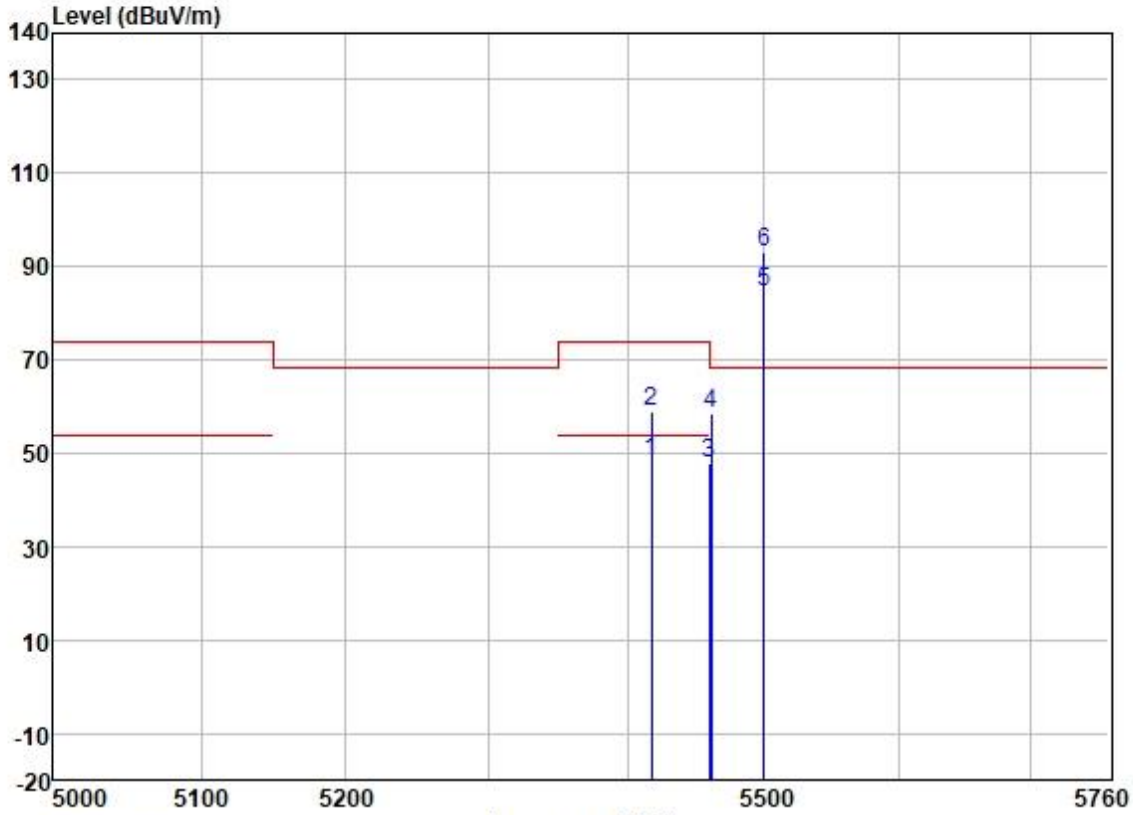
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5133.340 | 57.85 | 31.72 | 5.63 | 36.86 | 58.34 | 74.00 | -15.66 | VERTICAL | Peak |
| 2 | | 5140.093 | 46.88 | 31.72 | 5.63 | 36.86 | 47.37 | 54.00 | -6.63 | VERTICAL | Average |
| 3 | | 5290.000 | 75.14 | 31.76 | 6.00 | 36.87 | 76.03 | ------ | ------ | VERTICAL | Average |
| 4 | * | 5290.000 | 87.58 | 31.76 | 6.00 | 36.87 | 88.47 | 68.20 | 20.27 | VERTICAL | Peak |
| 5 | | 5352.981 | 46.65 | 31.77 | 6.05 | 36.88 | 47.59 | 54.00 | -6.41 | VERTICAL | Average |
| 6 | | 5358.798 | 56.67 | 31.78 | 6.03 | 36.88 | 57.60 | 74.00 | -16.40 | VERTICAL | Peak |

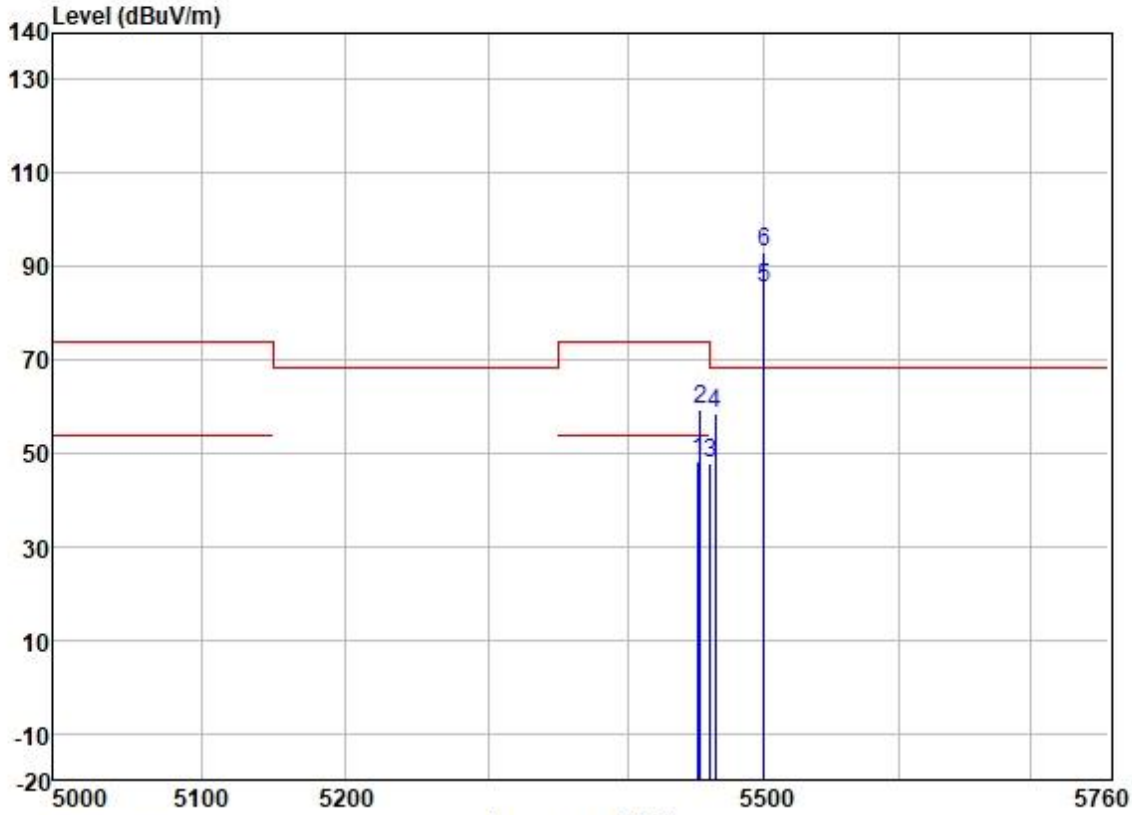
Test Mode: 13; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5417.475 | 47.02 | 31.79 | 6.13 | 36.88 | 48.06 | 54.00 | -5.94 | HORIZONTAL | Average |
| 2 | | 5417.475 | 57.92 | 31.79 | 6.13 | 36.88 | 58.96 | 74.00 | -15.04 | HORIZONTAL | Peak |
| 3 | | 5459.550 | 46.69 | 31.79 | 6.26 | 36.88 | 47.86 | 54.00 | -6.14 | HORIZONTAL | Average |
| 4 | | 5460.990 | 57.27 | 31.79 | 6.26 | 36.88 | 58.44 | 68.20 | -9.76 | HORIZONTAL | Peak |
| 5 | | 5500.000 | 83.26 | 31.80 | 6.40 | 36.88 | 84.58 | ------ | ------ | HORIZONTAL | Average |
| 6 | * | 5500.000 | 91.60 | 31.80 | 6.40 | 36.88 | 92.92 | 68.20 | 24.72 | HORIZONTAL | Peak |

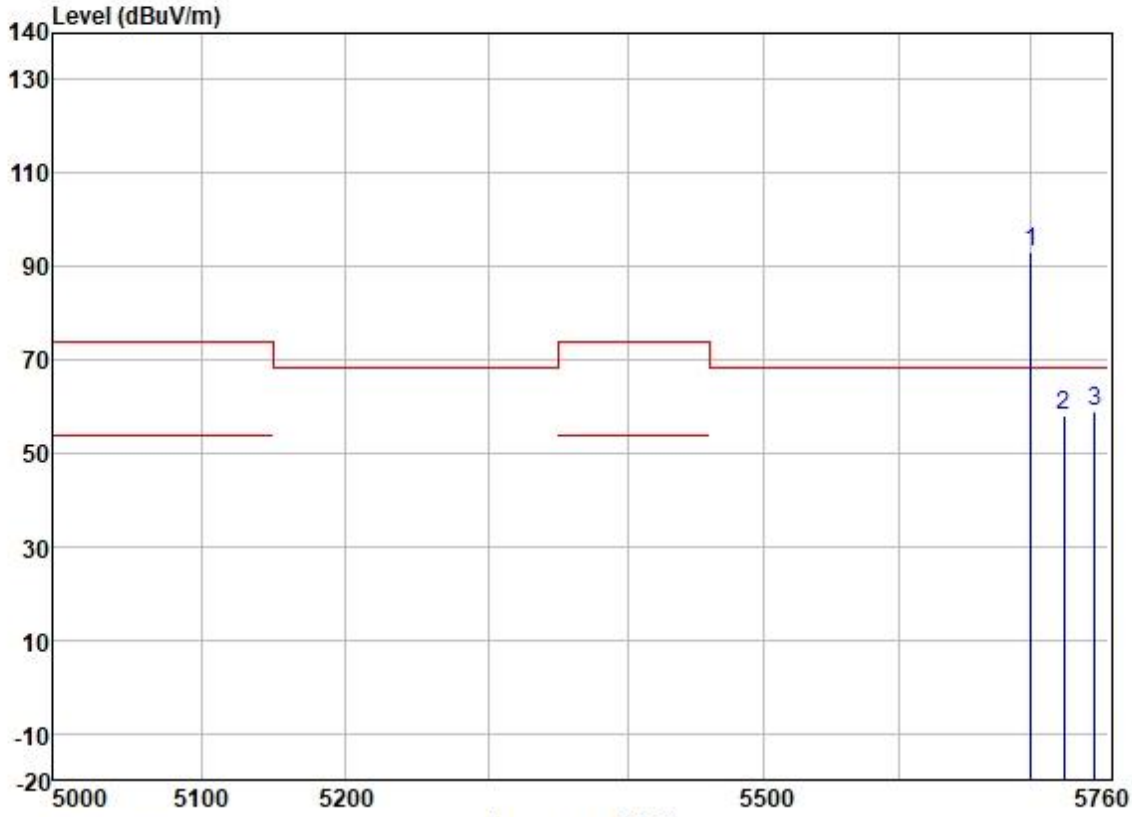
Test Mode: 13; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5451.157 | 46.97 | 31.79 | 6.26 | 36.88 | 48.14 | 54.00 | -5.86 | VERTICAL | Average |
| 2 | 5453.074 | 58.30 | 31.79 | 6.26 | 36.88 | 59.47 | 74.00 | -14.53 | VERTICAL | Peak |
| 3 | 5459.791 | 46.75 | 31.79 | 6.26 | 36.88 | 47.92 | 54.00 | -6.08 | VERTICAL | Average |
| 4 | 5464.112 | 57.48 | 31.80 | 6.31 | 36.88 | 58.71 | 68.20 | -9.49 | VERTICAL | Peak |
| 5 | 5500.000 | 84.02 | 31.80 | 6.40 | 36.88 | 85.34 | ------ | ------ | VERTICAL | Average |
| 6 * | 5500.000 | 91.60 | 31.80 | 6.40 | 36.88 | 92.92 | 68.20 | 24.72 | VERTICAL | Peak |

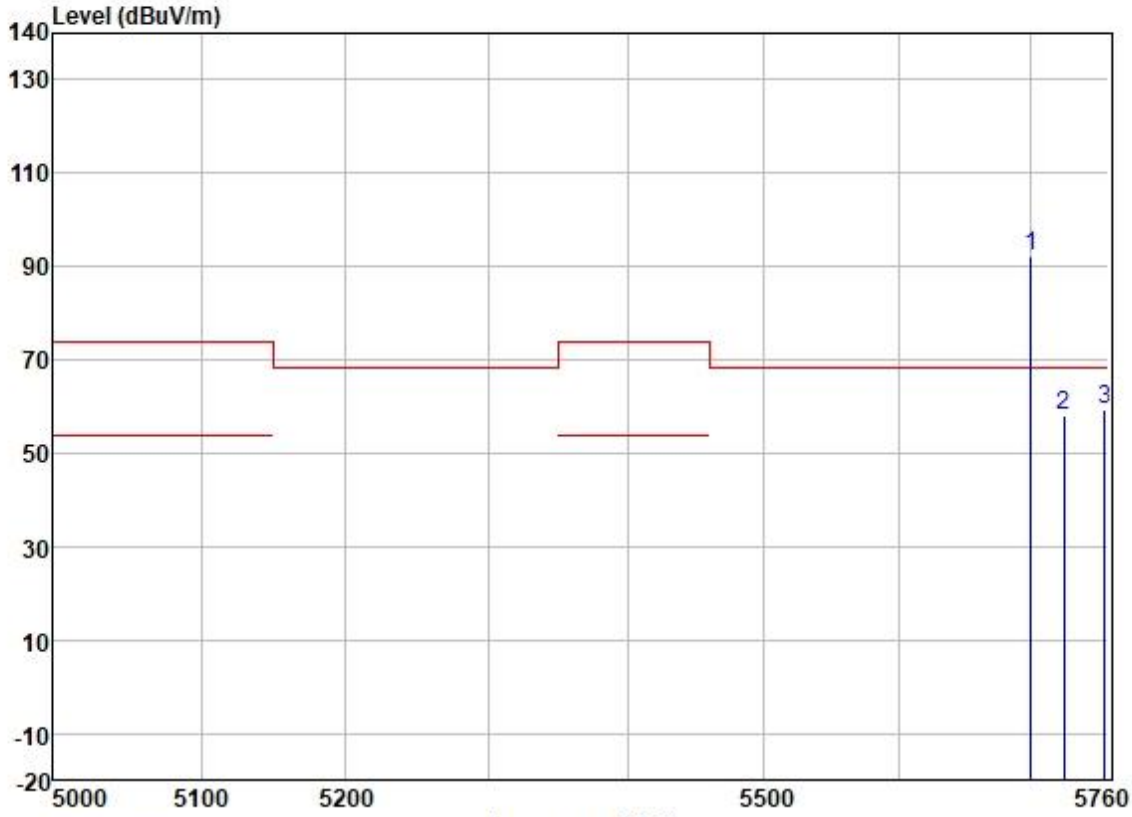
Test Mode: 13; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 5700.000 | 91.45 | 32.01 | 6.40 | 36.89 | 92.97 | 68.20 | 24.77 | HORIZONTAL | Peak |
| 2 | | 5725.000 | 56.66 | 32.07 | 6.25 | 36.89 | 58.09 | 68.20 | -10.11 | HORIZONTAL | Peak |
| 3 | | 5748.713 | 57.49 | 32.10 | 6.20 | 36.89 | 58.90 | 68.20 | -9.30 | HORIZONTAL | Peak |

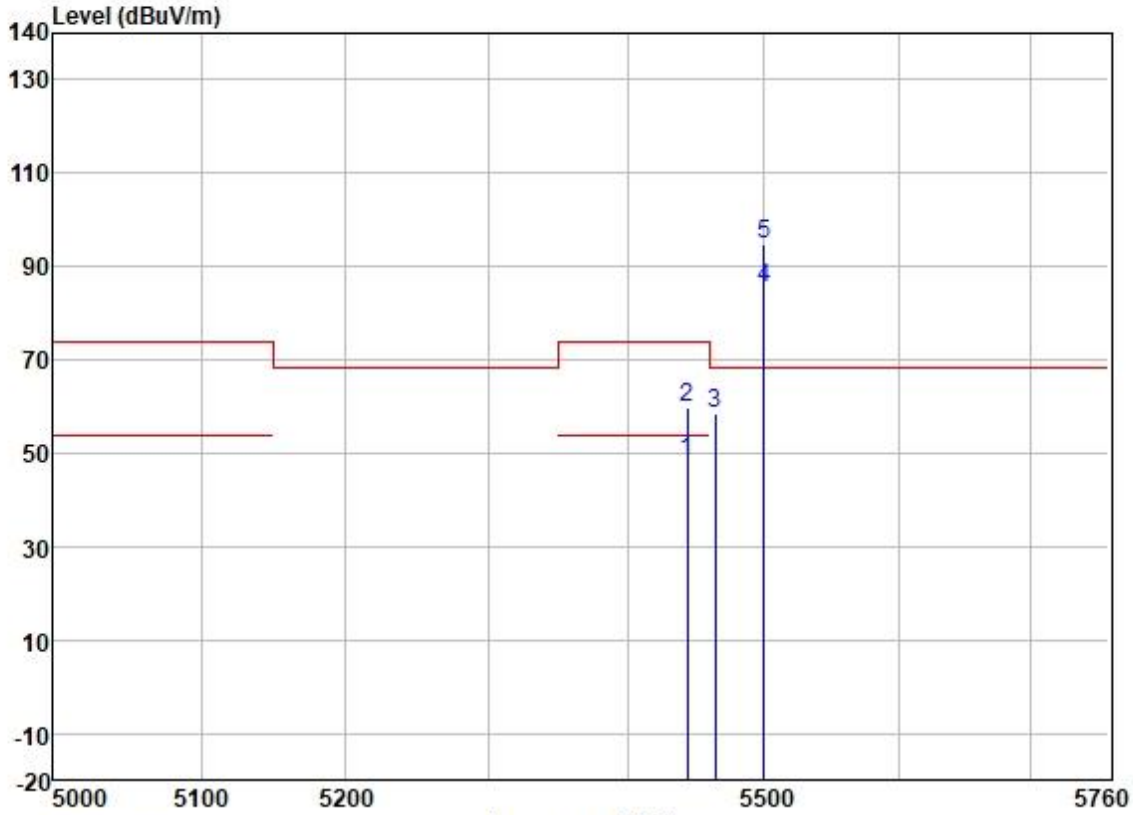
Test Mode: 13; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 5700.000 | 90.87 | 32.01 | 6.40 | 36.89 | 92.39 | 68.20 | 24.19 | VERTICAL | Peak |
| 2 | | 5725.000 | 56.62 | 32.07 | 6.25 | 36.89 | 58.05 | 68.20 | -10.15 | VERTICAL | Peak |
| 3 | | 5756.946 | 57.96 | 32.13 | 6.15 | 36.89 | 59.35 | 68.20 | -8.85 | VERTICAL | Peak |

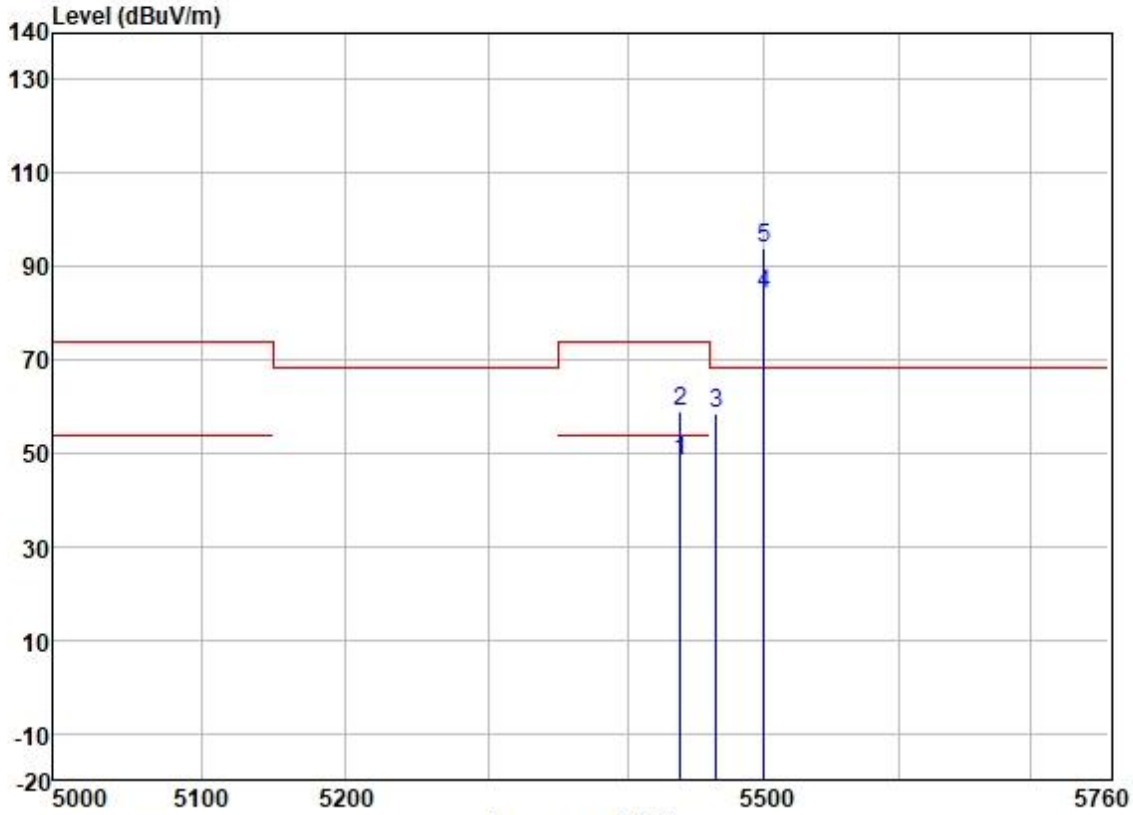
Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | | Freq | ReadLevel | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 5443.375 | 46.98 | 31.79 | 6.20 | 36.88 | 48.09 | 54.00 | -5.91 | HORIZONTAL | Average |
| 2 | | 5443.375 | 58.54 | 31.79 | 6.20 | 36.88 | 59.65 | 74.00 | -14.35 | HORIZONTAL | Peak |
| 3 | | 5463.752 | 57.24 | 31.80 | 6.31 | 36.88 | 58.47 | 68.20 | -9.73 | HORIZONTAL | Peak |
| 4 | | 5500.000 | 83.95 | 31.80 | 6.40 | 36.88 | 85.27 | ------ | ------ | HORIZONTAL | Average |
| 5 | * | 5500.000 | 93.35 | 31.80 | 6.40 | 36.88 | 94.67 | 68.20 | 26.47 | HORIZONTAL | Peak |

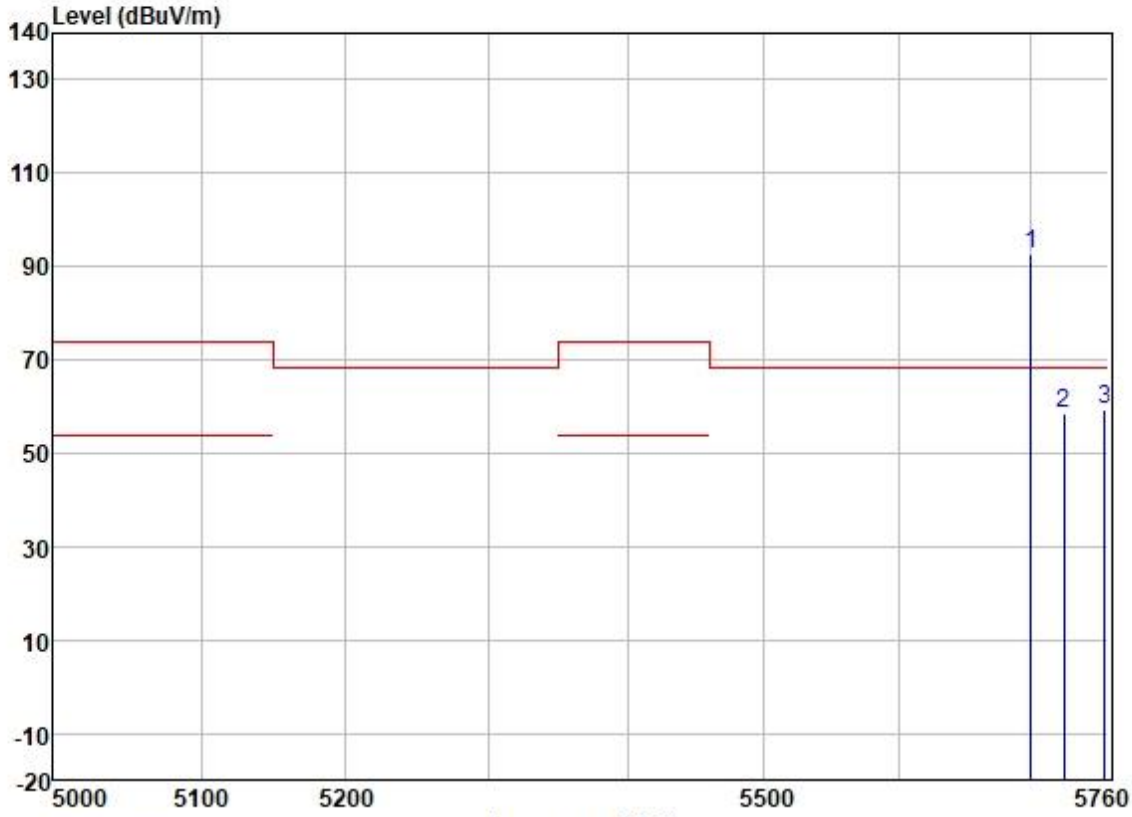
Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5438.233 | 46.96 | 31.79 | 6.20 | 36.88 | 48.07 | 54.00 | -5.93 | VERTICAL | Average |
| 2 | 5438.233 | 58.03 | 31.79 | 6.20 | 36.88 | 59.14 | 74.00 | -14.86 | VERTICAL | Peak |
| 3 | 5464.712 | 57.29 | 31.80 | 6.31 | 36.88 | 58.52 | 68.20 | -9.68 | VERTICAL | Peak |
| 4 | 5500.000 | 82.63 | 31.80 | 6.40 | 36.88 | 83.95 | ------ | ------ | VERTICAL | Average |
| 5 * | 5500.000 | 92.50 | 31.80 | 6.40 | 36.88 | 93.82 | 68.20 | 25.62 | VERTICAL | Peak |

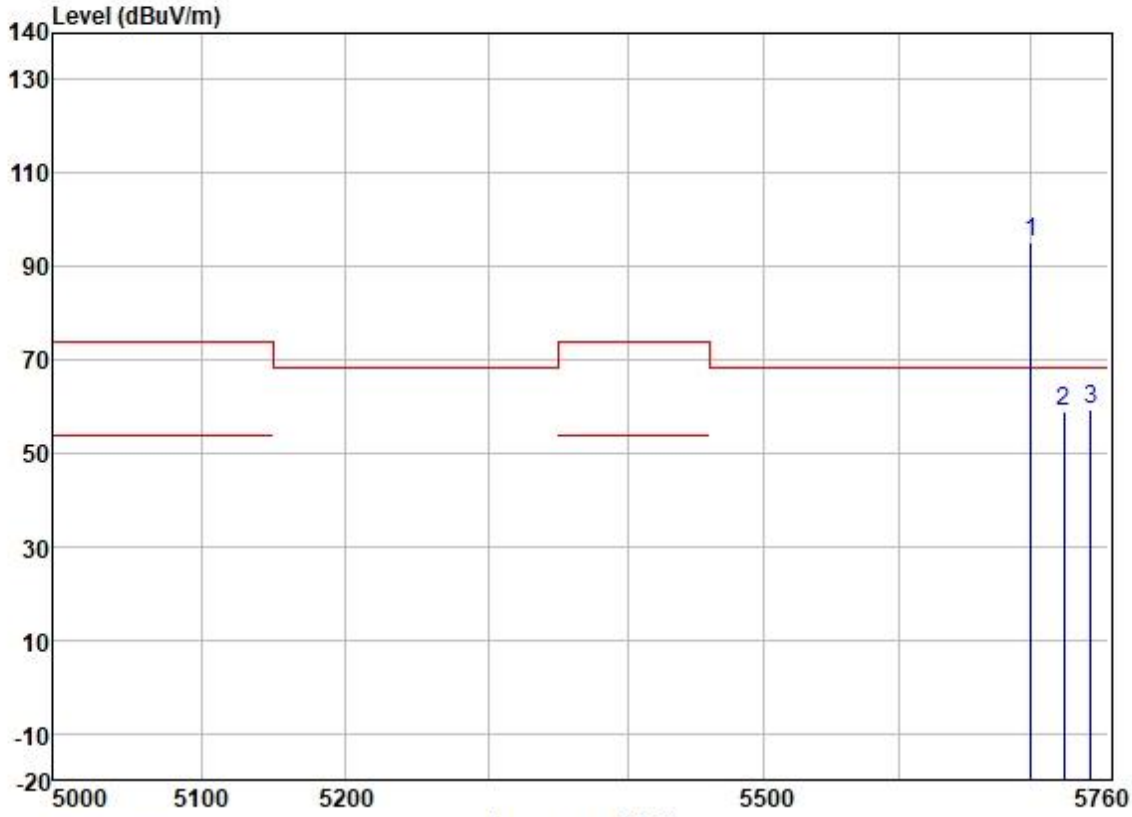
Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 5700.000 | 91.09 | 32.01 | 6.40 | 36.89 | 92.61 | 68.20 | 24.41 | HORIZONTAL | Peak |
| 2 | | 5725.000 | 57.15 | 32.07 | 6.25 | 36.89 | 58.58 | 68.20 | -9.62 | HORIZONTAL | Peak |
| 3 | | 5756.242 | 57.80 | 32.13 | 6.15 | 36.89 | 59.19 | 68.20 | -9.01 | HORIZONTAL | Peak |

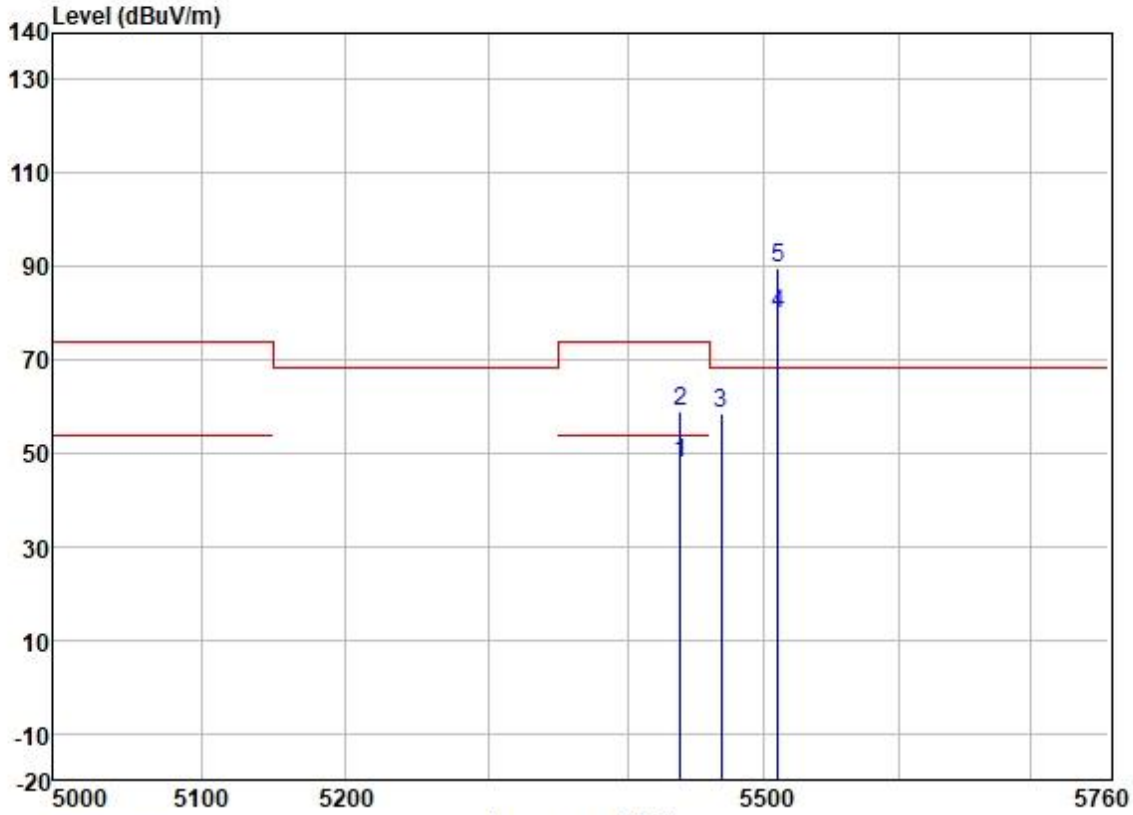
Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | ReadLevel | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 5700.000 | 93.78 | 32.01 | 6.40 | 36.89 | 95.30 | 68.20 | 27.10 | VERTICAL | Peak |
| 2 | | 5725.000 | 57.30 | 32.07 | 6.25 | 36.89 | 58.73 | 68.20 | -9.47 | VERTICAL | Peak |
| 3 | | 5745.904 | 58.16 | 32.10 | 6.20 | 36.89 | 59.57 | 68.20 | -8.63 | VERTICAL | Peak |

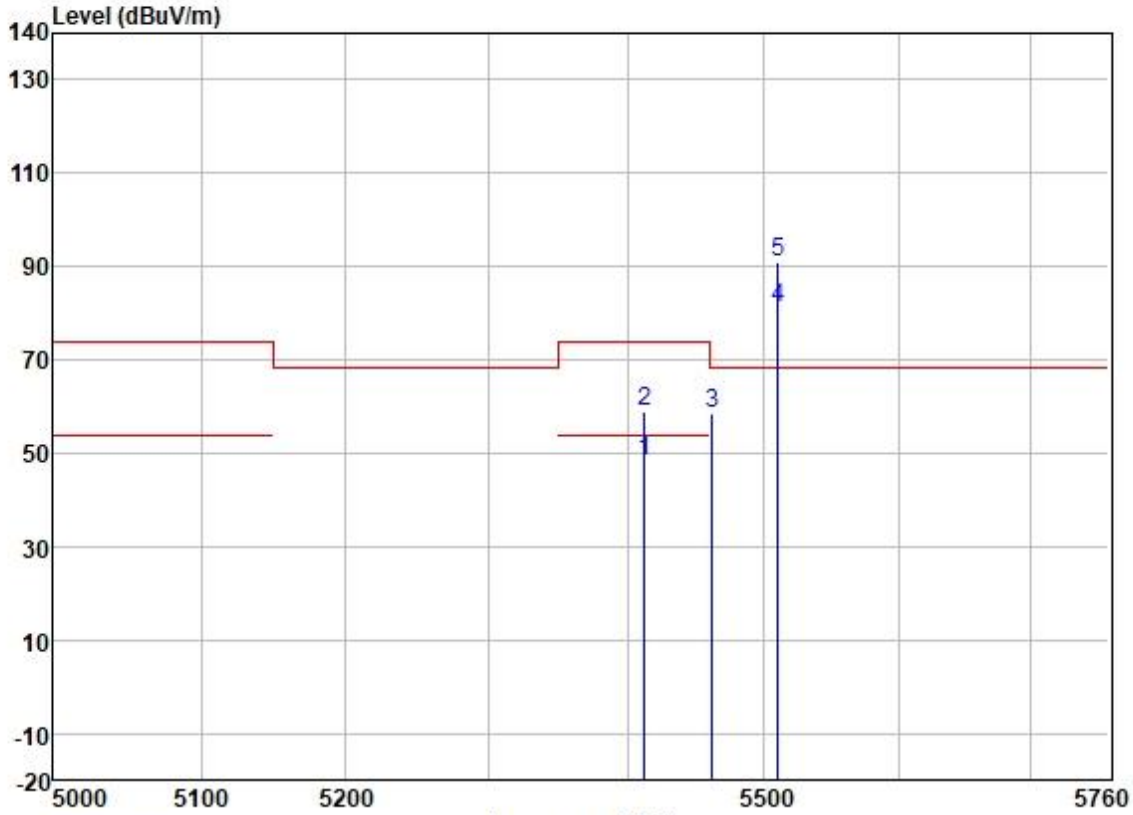
Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5438.283 | 46.93 | 31.79 | 6.20 | 36.88 | 48.04 | 54.00 | -5.96 | HORIZONTAL | Average |
| 2 | 5438.283 | 57.70 | 31.79 | 6.20 | 36.88 | 58.81 | 74.00 | -15.19 | HORIZONTAL | Peak |
| 3 | 5468.152 | 57.26 | 31.80 | 6.31 | 36.88 | 58.49 | 68.20 | -9.71 | HORIZONTAL | Peak |
| 4 | 5510.000 | 78.71 | 31.80 | 6.40 | 36.88 | 80.03 | ------ | ------ | HORIZONTAL | Average |
| 5 * | 5510.000 | 88.28 | 31.80 | 6.40 | 36.88 | 89.60 | 68.20 | 21.40 | HORIZONTAL | Peak |

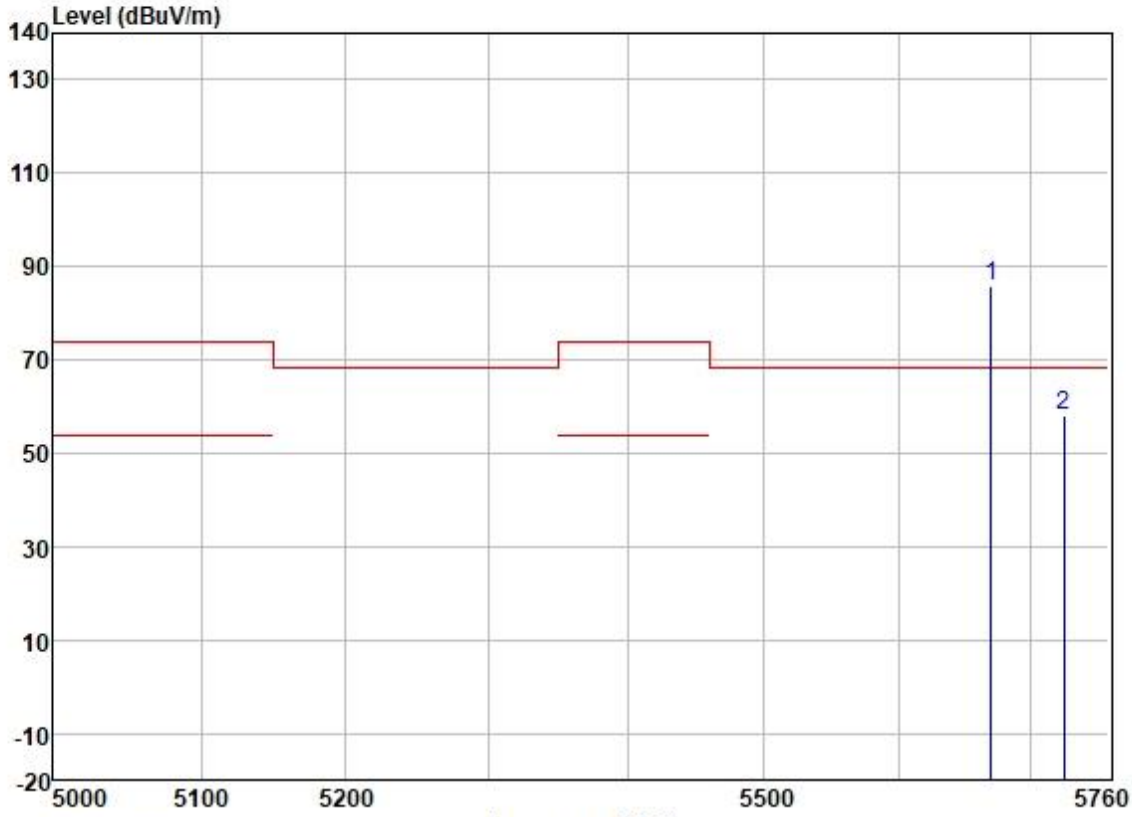
Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5412.177 | 47.17 | 31.79 | 6.06 | 36.88 | 48.14 | 54.00 | -5.86 | VERTICAL | Average |
| 2 | 5412.177 | 58.14 | 31.79 | 6.06 | 36.88 | 59.11 | 74.00 | -14.89 | VERTICAL | Peak |
| 3 | 5461.718 | 57.13 | 31.79 | 6.26 | 36.88 | 58.30 | 68.20 | -9.90 | VERTICAL | Peak |
| 4 | 5510.000 | 79.93 | 31.80 | 6.40 | 36.88 | 81.25 | ------ | ------ | VERTICAL | Average |
| 5 * | 5510.000 | 89.42 | 31.80 | 6.40 | 36.88 | 90.74 | 68.20 | 22.54 | VERTICAL | Peak |

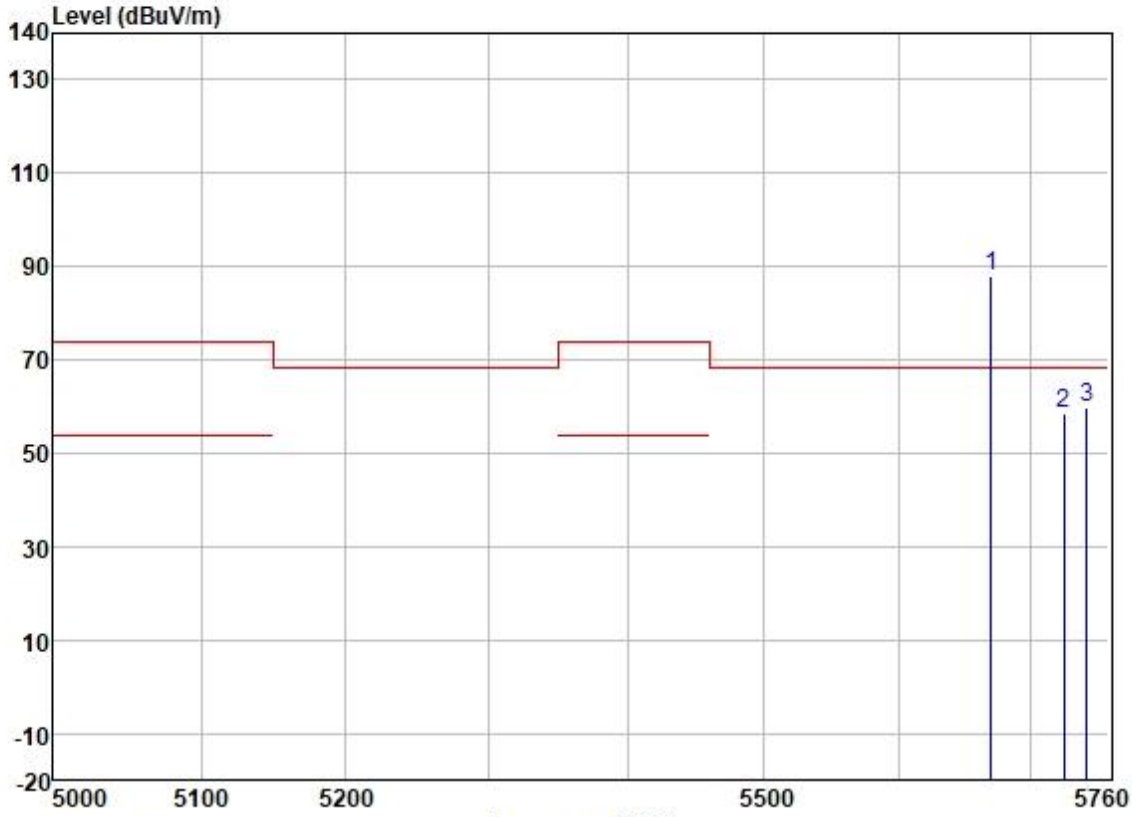
Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 * | 5670.000 | 84.20 | 31.97 | 6.37 | 36.89 | 85.65 | 68.20 | 17.45 | HORIZONTAL | Peak |
| 2 | 5725.000 | 56.49 | 32.07 | 6.25 | 36.89 | 57.92 | 68.20 | -10.28 | HORIZONTAL | Peak |

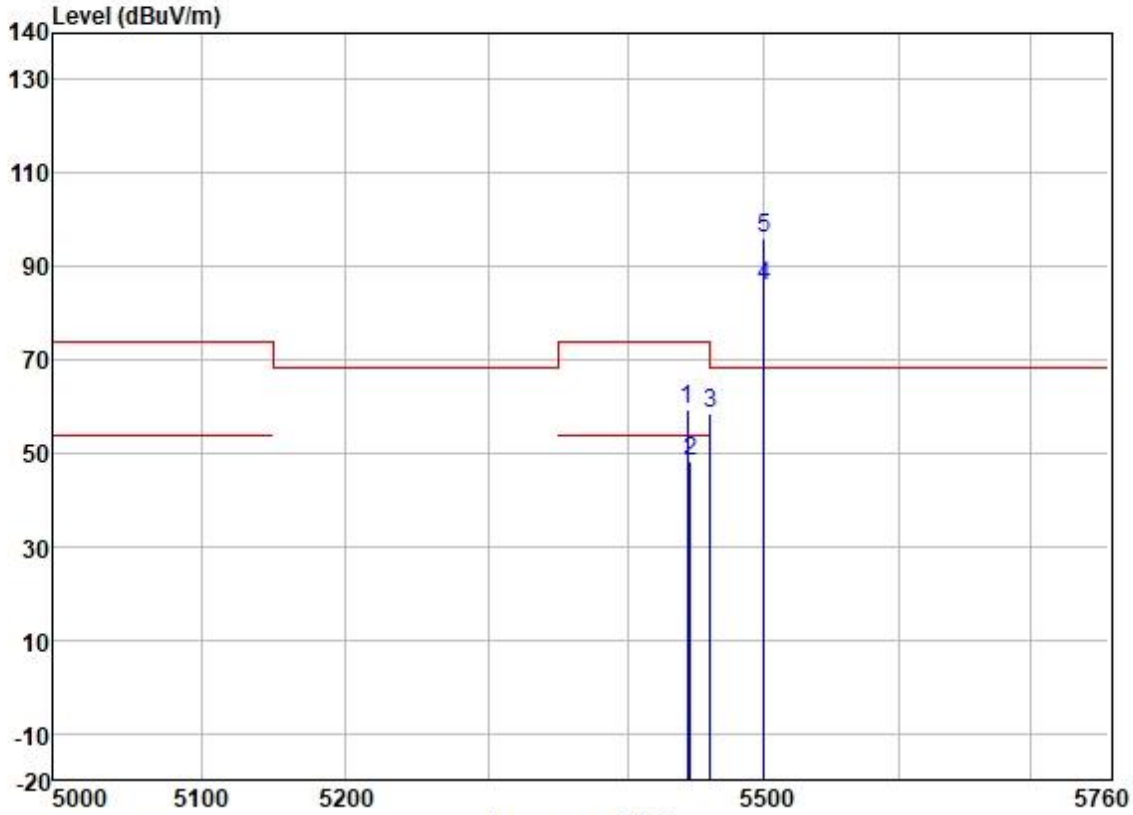
Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 5670.000 | 86.60 | 31.97 | 6.37 | 36.89 | 88.05 | 68.20 | 19.85 | VERTICAL | Peak |
| 2 | | 5725.000 | 57.08 | 32.07 | 6.25 | 36.89 | 58.51 | 68.20 | -9.69 | VERTICAL | Peak |
| 3 | | 5742.706 | 58.18 | 32.10 | 6.20 | 36.89 | 59.59 | 68.20 | -8.61 | VERTICAL | Peak |

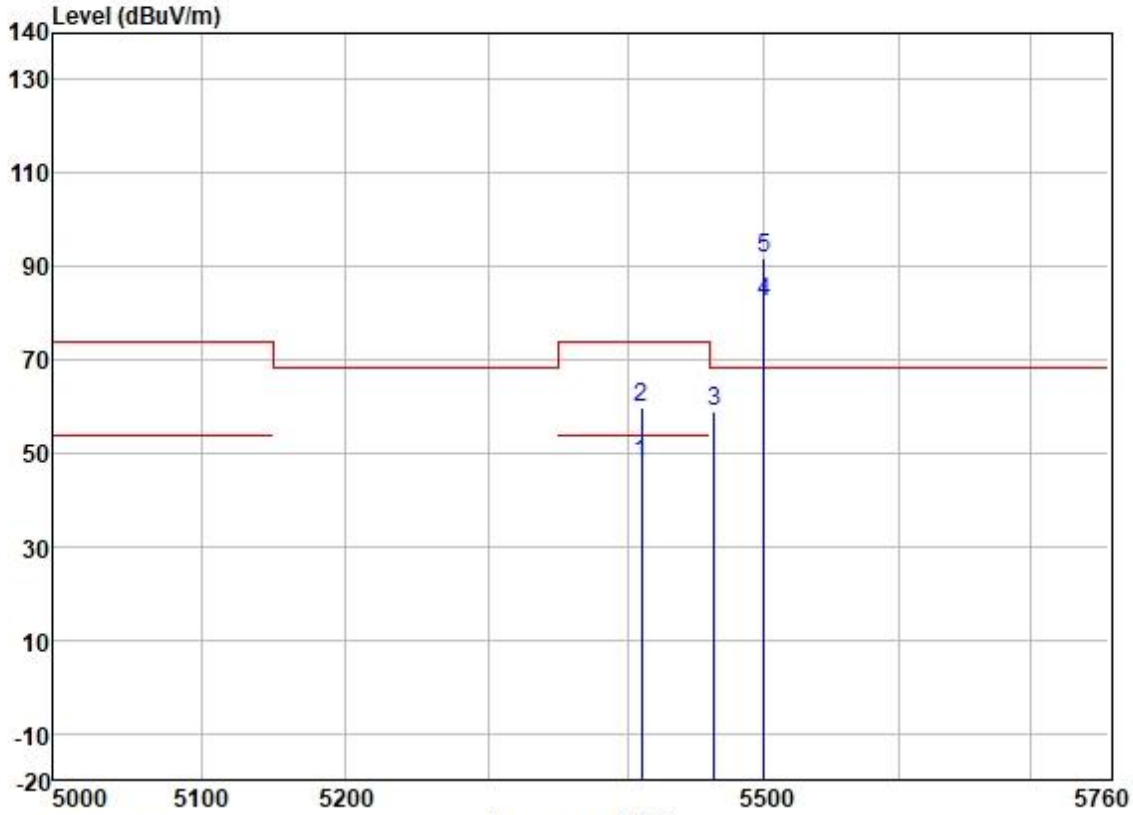
Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5443.255 | 58.25 | 31.79 | 6.20 | 36.88 | 59.36 | 74.00 | -14.64 | HORIZONTAL | Peak |
| 2 | 5445.529 | 46.97 | 31.79 | 6.20 | 36.88 | 48.08 | 54.00 | -5.92 | HORIZONTAL | Average |
| 3 | 5460.510 | 57.41 | 31.79 | 6.26 | 36.88 | 58.58 | 68.20 | -9.62 | HORIZONTAL | Peak |
| 4 | 5500.000 | 84.68 | 31.80 | 6.40 | 36.88 | 86.00 | ------ | ------ | HORIZONTAL | Average |
| 5 * | 5500.000 | 94.54 | 31.80 | 6.40 | 36.88 | 95.86 | 68.20 | 27.66 | HORIZONTAL | Peak |

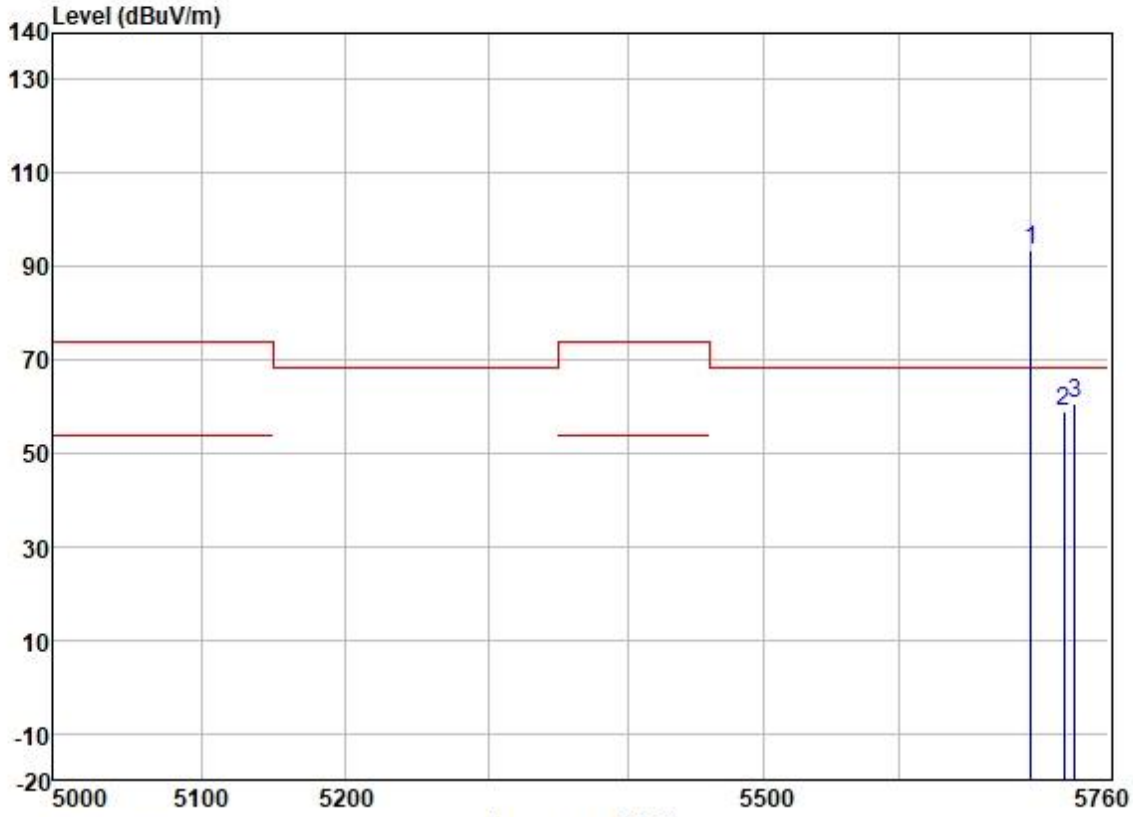
Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5409.860 | 47.06 | 31.79 | 6.06 | 36.88 | 48.03 | 54.00 | -5.97 | VERTICAL | Average |
| 2 | 5409.860 | 58.85 | 31.79 | 6.06 | 36.88 | 59.82 | 74.00 | -14.18 | VERTICAL | Peak |
| 3 | 5463.392 | 57.70 | 31.79 | 6.26 | 36.88 | 58.87 | 68.20 | -9.33 | VERTICAL | Peak |
| 4 | 5500.000 | 81.21 | 31.80 | 6.40 | 36.88 | 82.53 | ------ | ------ | VERTICAL | Average |
| 5 * | 5500.000 | 90.57 | 31.80 | 6.40 | 36.88 | 91.89 | 68.20 | 23.69 | VERTICAL | Peak |

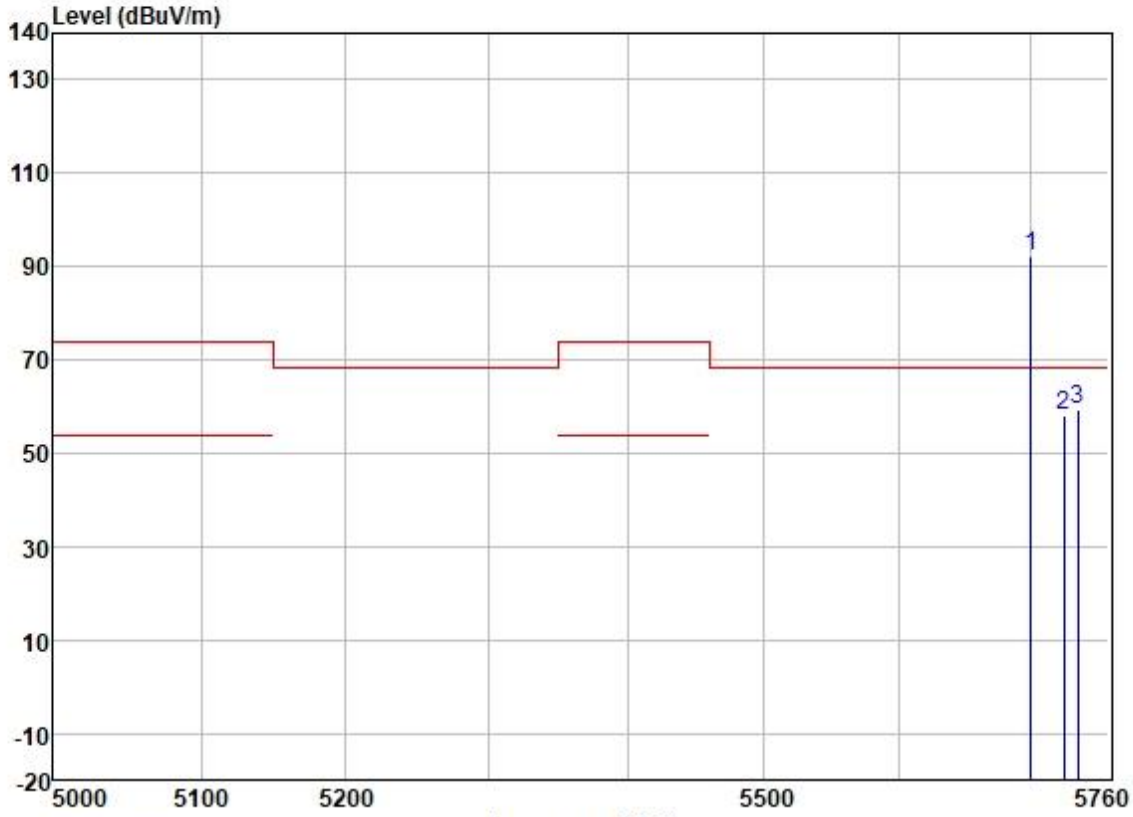
Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 5700.000 | 91.81 | 32.01 | 6.40 | 36.89 | 93.33 | 68.20 | 25.13 | HORIZONTAL | Peak |
| 2 | | 5725.000 | 57.71 | 32.07 | 6.25 | 36.89 | 59.14 | 68.20 | -9.06 | HORIZONTAL | Peak |
| 3 | | 5733.683 | 59.18 | 32.07 | 6.25 | 36.89 | 60.61 | 68.20 | -7.59 | HORIZONTAL | Peak |

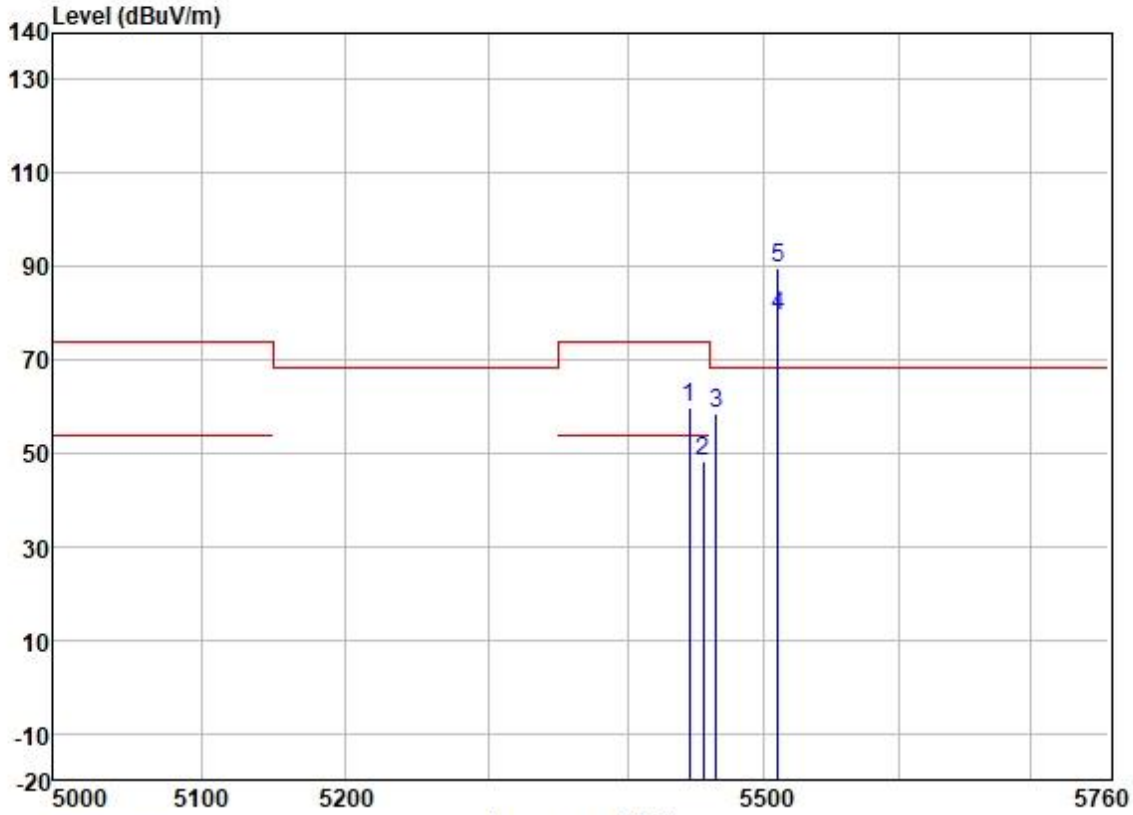
Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 5700.000 | 90.88 | 32.01 | 6.40 | 36.89 | 92.40 | 68.20 | 24.20 | VERTICAL | Peak |
| 2 | | 5725.000 | 56.71 | 32.07 | 6.25 | 36.89 | 58.14 | 68.20 | -10.06 | VERTICAL | Peak |
| 3 | | 5735.885 | 58.13 | 32.07 | 6.25 | 36.89 | 59.56 | 68.20 | -8.64 | VERTICAL | Peak |

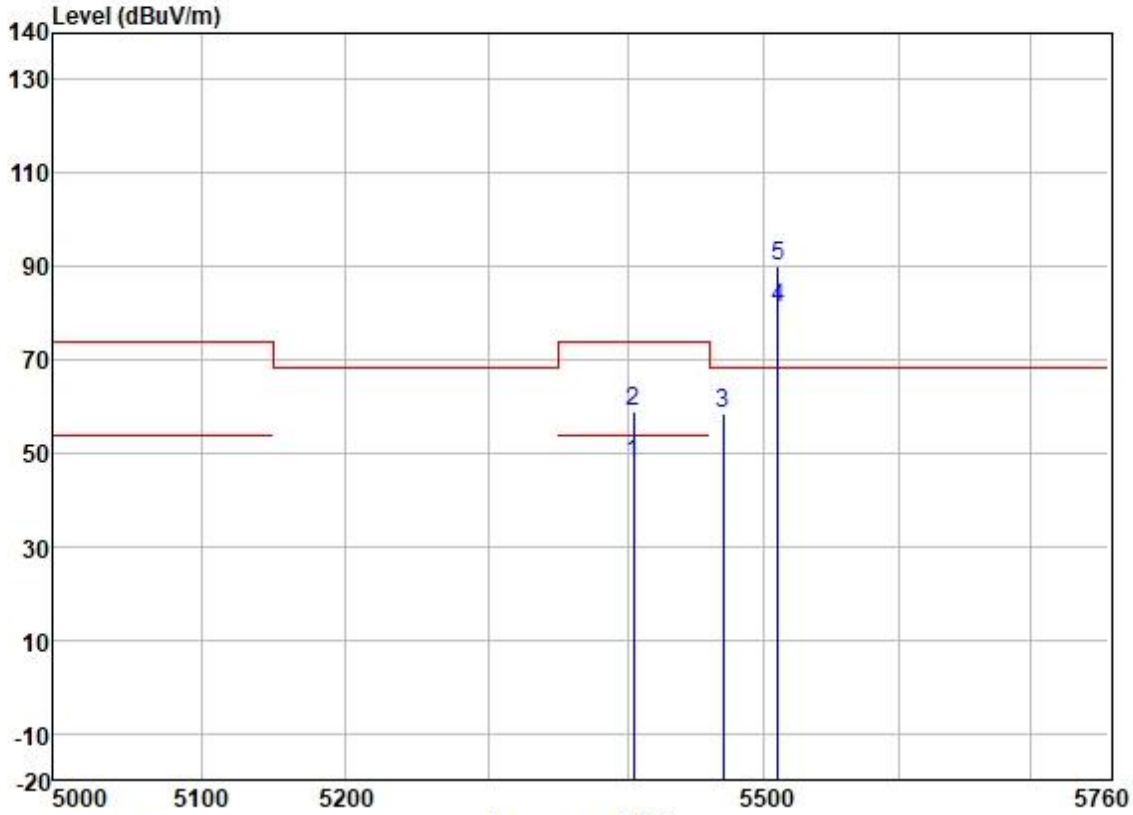
Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5444.829 | 58.83 | 31.79 | 6.20 | 36.88 | 59.94 | 74.00 | -14.06 | HORIZONTAL | Peak |
| 2 | 5454.872 | 46.91 | 31.79 | 6.26 | 36.88 | 48.08 | 54.00 | -5.92 | HORIZONTAL | Average |
| 3 | 5464.375 | 57.13 | 31.80 | 6.31 | 36.88 | 58.36 | 68.20 | -9.84 | HORIZONTAL | Peak |
| 4 | 5510.000 | 78.18 | 31.80 | 6.40 | 36.88 | 79.50 | ------ | ------ | HORIZONTAL | Average |
| 5 * | 5510.000 | 88.35 | 31.80 | 6.40 | 36.88 | 89.67 | 68.20 | 21.47 | HORIZONTAL | Peak |

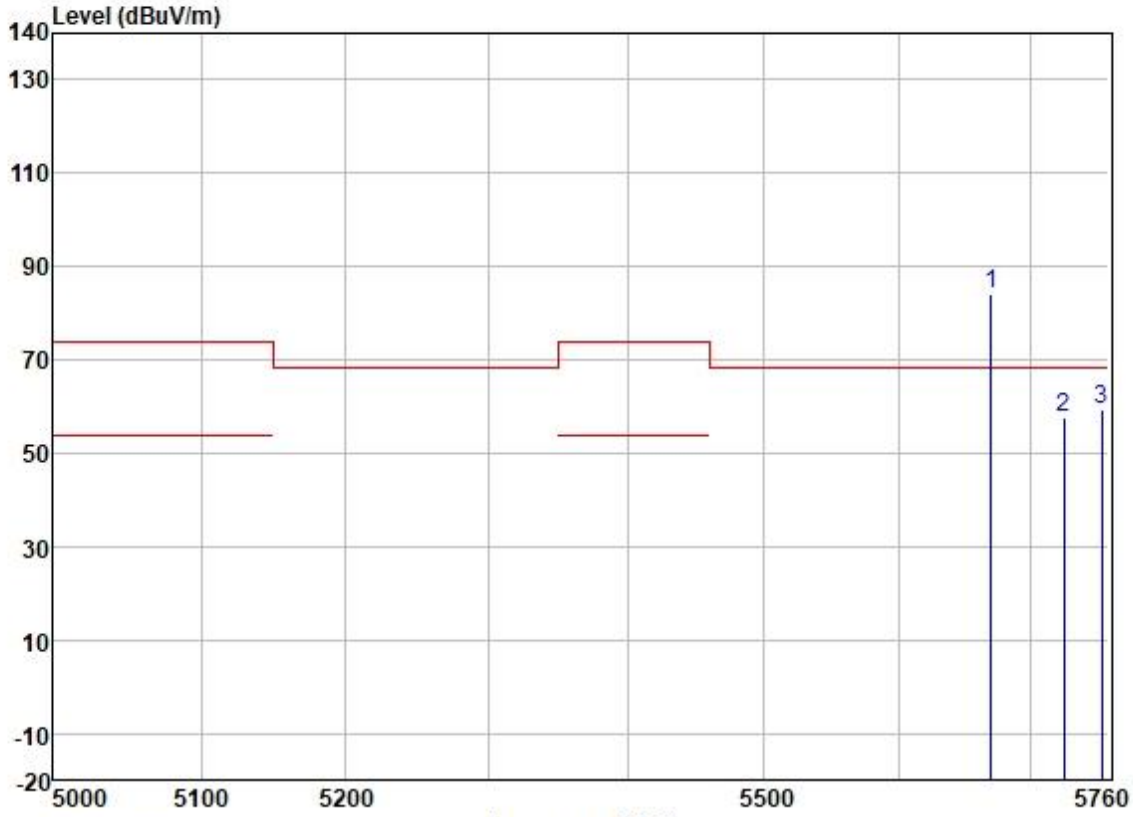
Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5404.148 | 47.08 | 31.79 | 6.06 | 36.88 | 48.05 | 54.00 | -5.95 | VERTICAL | Average |
| 2 | 5404.148 | 58.07 | 31.79 | 6.06 | 36.88 | 59.04 | 74.00 | -14.96 | VERTICAL | Peak |
| 3 | 5469.412 | 57.41 | 31.80 | 6.31 | 36.88 | 58.64 | 68.20 | -9.56 | VERTICAL | Peak |
| 4 | 5510.000 | 79.60 | 31.80 | 6.40 | 36.88 | 80.92 | ------ | ------ | VERTICAL | Average |
| 5 * | 5510.000 | 88.80 | 31.80 | 6.40 | 36.88 | 90.12 | 68.20 | 21.92 | VERTICAL | Peak |

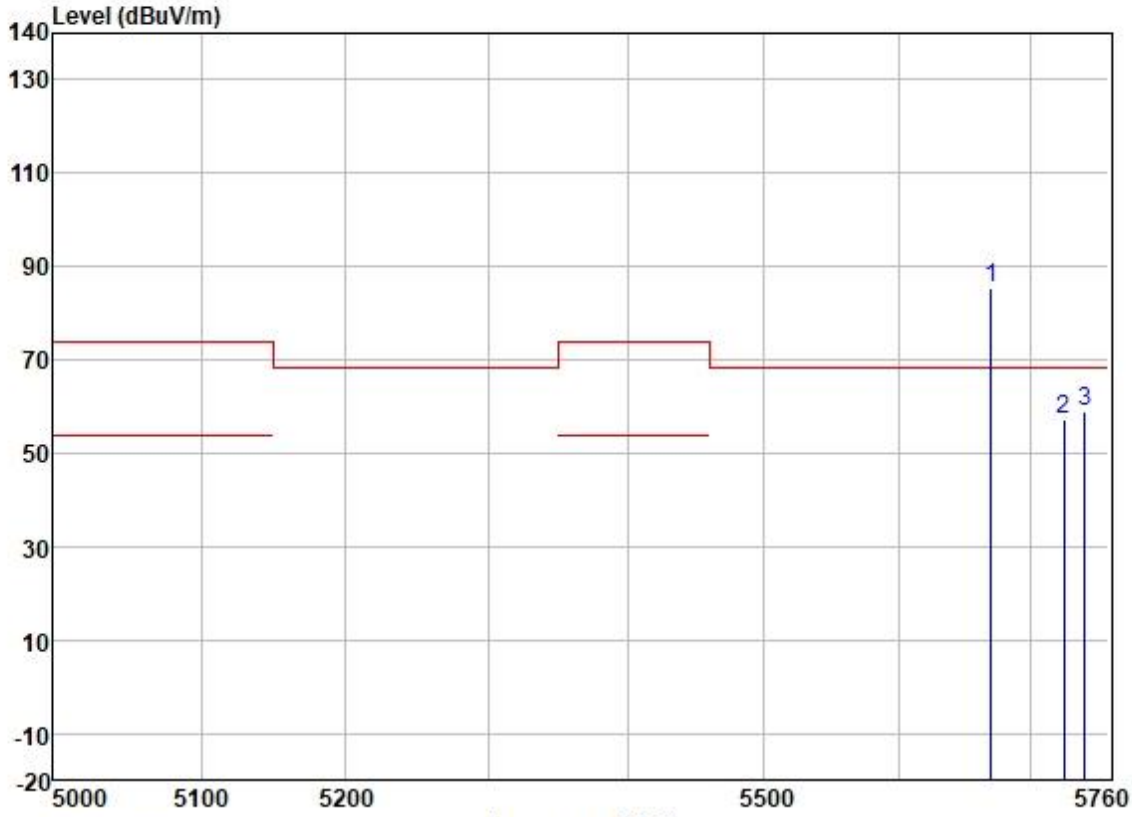
Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




race: (Discrete)

| | | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 5670.000 | 82.66 | 31.97 | 6.37 | 36.89 | 84.11 | 68.20 | 15.91 | HORIZONTAL | Peak |
| 2 | | 5725.000 | 56.29 | 32.07 | 6.25 | 36.89 | 57.72 | 68.20 | -10.48 | HORIZONTAL | Peak |
| 3 | | 5754.405 | 57.96 | 32.10 | 6.20 | 36.89 | 59.37 | 68.20 | -8.83 | HORIZONTAL | Peak |

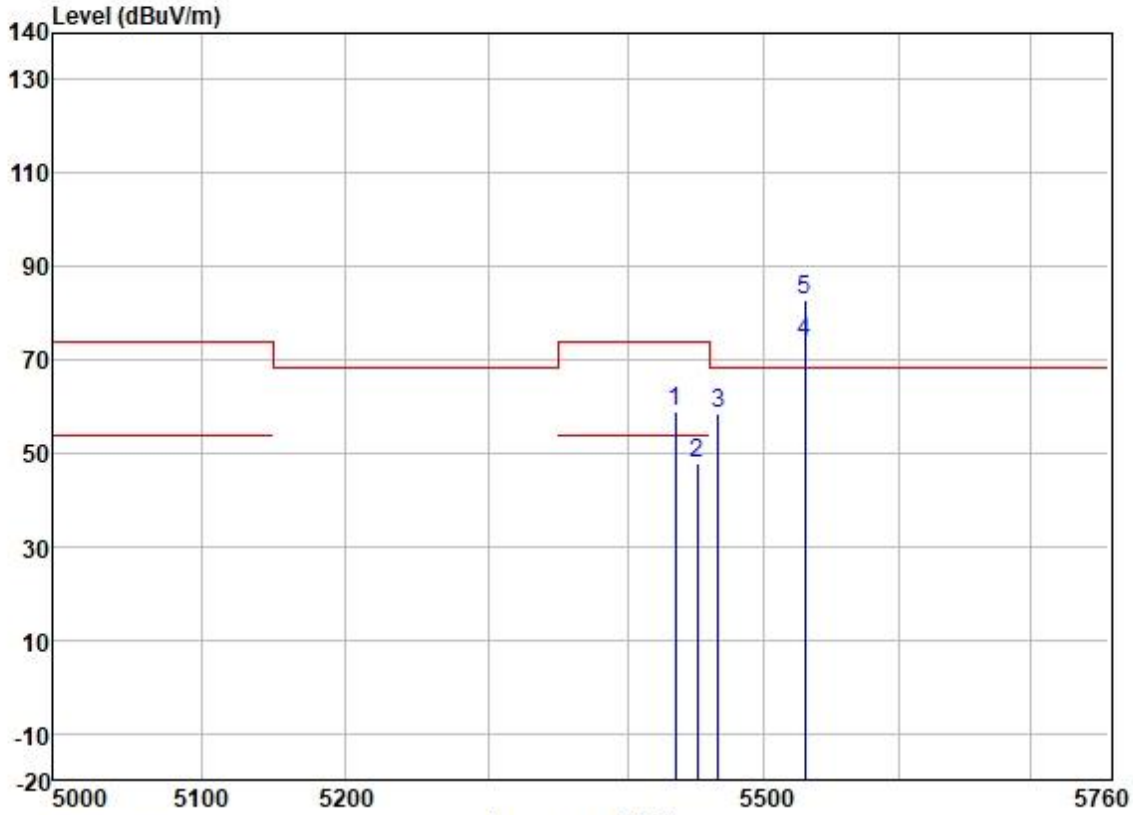
Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 * | 5670.000 | 84.13 | 31.97 | 6.37 | 36.89 | 85.58 | 68.20 | 17.38 | VERTICAL | Peak |
| 2 | 5725.000 | 55.87 | 32.07 | 6.25 | 36.89 | 57.30 | 68.20 | -10.90 | VERTICAL | Peak |
| 3 | 5740.875 | 57.47 | 32.10 | 6.20 | 36.89 | 58.88 | 68.20 | -9.32 | VERTICAL | Peak |

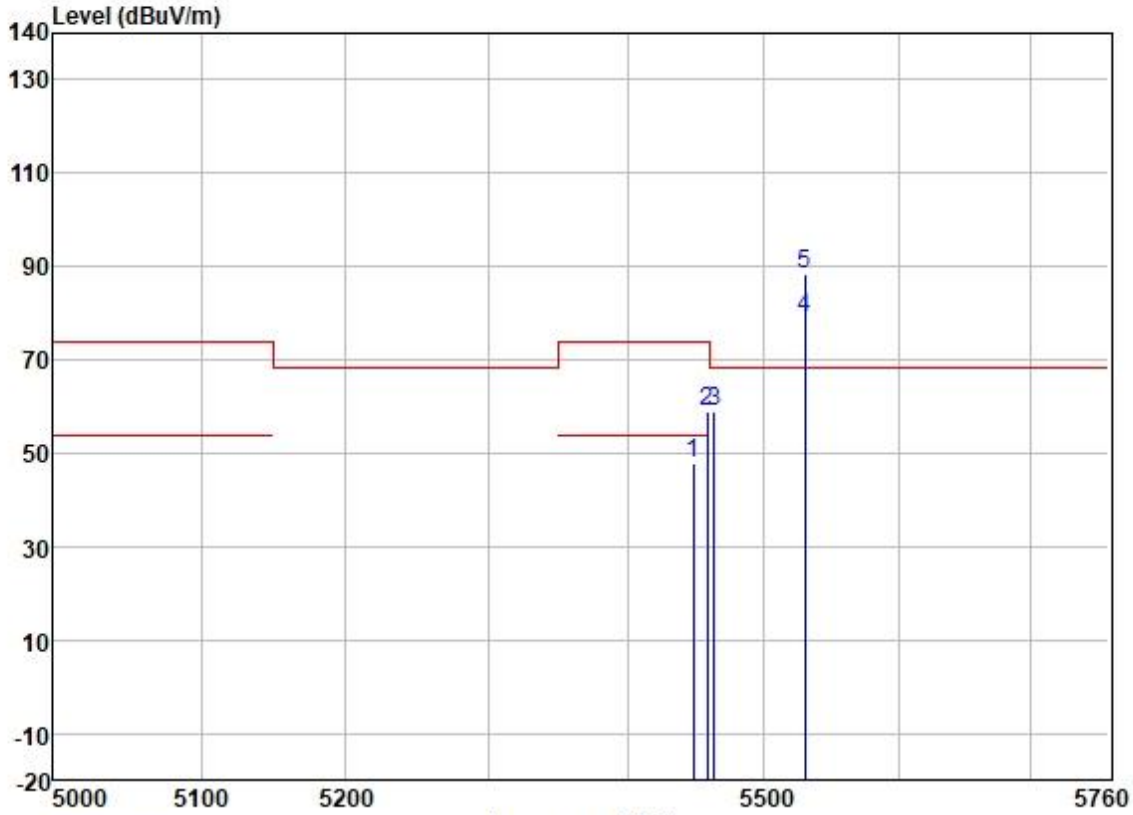
Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5434.460 | 57.65 | 31.79 | 6.20 | 36.88 | 58.76 | 74.00 | -15.24 | HORIZONTAL | Peak |
| 2 | 5450.521 | 46.88 | 31.79 | 6.26 | 36.88 | 48.05 | 54.00 | -5.95 | HORIZONTAL | Average |
| 3 | 5466.271 | 57.30 | 31.80 | 6.31 | 36.88 | 58.53 | 68.20 | -9.67 | HORIZONTAL | Peak |
| 4 | 5530.000 | 72.35 | 31.83 | 6.37 | 36.89 | 73.66 | ------ | ------ | HORIZONTAL | Average |
| 5 * | 5530.000 | 81.71 | 31.83 | 6.37 | 36.89 | 83.02 | 68.20 | 14.82 | HORIZONTAL | Peak |

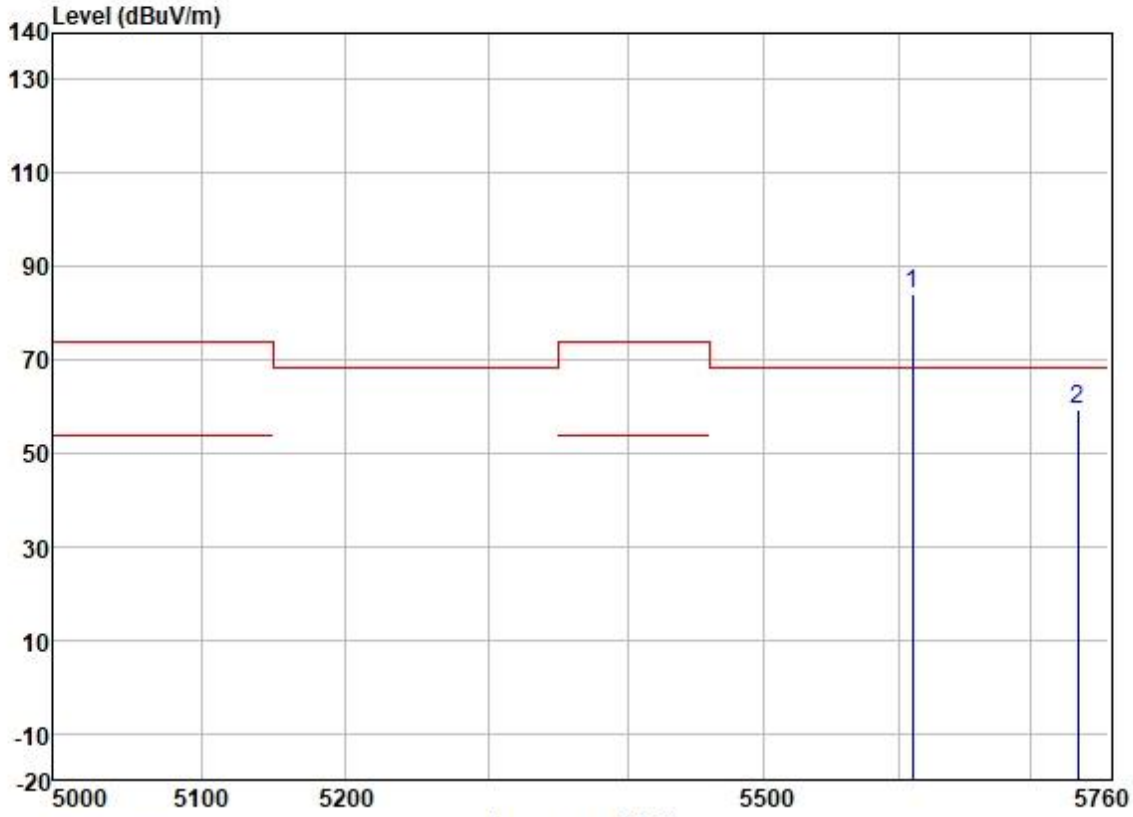
Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 5448.020 | 46.88 | 31.79 | 6.26 | 36.88 | 48.05 | 54.00 | -5.95 | VERTICAL | Average |
| 2 | 5457.675 | 57.90 | 31.79 | 6.26 | 36.88 | 59.07 | 74.00 | -14.93 | VERTICAL | Peak |
| 3 | 5463.046 | 57.65 | 31.79 | 6.26 | 36.88 | 58.82 | 68.20 | -9.38 | VERTICAL | Peak |
| 4 | 5530.000 | 77.67 | 31.83 | 6.37 | 36.89 | 78.98 | ------ | ------ | VERTICAL | Average |
| 5 * | 5530.000 | 87.13 | 31.83 | 6.37 | 36.89 | 88.44 | 68.20 | 20.24 | VERTICAL | Peak |

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High




race: (Discrete)

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 * | 5610.000 | 82.69 | 31.91 | 6.32 | 36.89 | 84.03 | 68.20 | 15.83 | HORIZONTAL | Peak |
| 2 | 5736.233 | 57.96 | 32.07 | 6.25 | 36.89 | 59.39 | 68.20 | -8.81 | HORIZONTAL | Peak |