TEST REPORT

Application No.:	GZCR2204000355AT
Applicant:	DT Research, Inc.
Address of Applicant:	3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan
Manufacturer:	DT Research, Inc.
Address of Manufacturer:	2000 Concourse Drive, San Jose, CA 95131, USA
Factory:	DT Research, Inc. Taiwan Branch
Address of Factory:	6F., No.36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan
Equipment Under Test (EUT):	
EUT Name:	Rugged Tablet
Model No.:	300SXX, 301SXX(x= 0-9, A-Z, - or null) ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	DT Research
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2022-04-08
Date of Test:	2022-04-08 to 2022-04-14
Date of Issue:	2022-04-15
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		*2022-04-15*		*Original*

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

2 Test Summary

Radio Spectrum Technical Requirement				
Item	**Standard**	**Method**	**Requirement**	**Result**
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart C 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	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 (below 1GHz)		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.

Declaration of EUT Family Grouping:

Model No.: 300Sxx, 301Sxx(x= 0-9, A-Z, - or null)

Only the model 301SY was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No..

This report is prepared for FCC class II permissive change.

The modular approval by TCB, FCC ID:YE3600-SC66A, Granted on 03/08/2022.

The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. The Original FCC testing on module under FCC ID:YE3600-SC66A was performed with an antenna of lower gain, and the antenna was connected to the module in an open environment. The current host platform under application uses a new antenna of the different type, lower gain and is installed outside the host platform enclosure.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model 301SY and shown the data in this report.

3 Contents

4 General Information

4.1 Details of E.U.T.

Power supply: AC Adapter
Model: A11-065N1A
UP/N: A065R112L
Input: AC 100-240V, 1.7A, 50-60Hz
Output: DC 19V, 3.42A, 65W

Rechargeable lithium-Ion polymer battery
Model: ACC-006-311K(2ICP6/57/60-2)
Rated Capacity: 6000mAh
Volt: 7.6VDC
Watt-Hour: 45.6Wh
Max Charge Voltage: 8.7V

Cable(s): DC cable:175cm with a ferrite core

Operation Frequency:

Band	Mode	Frequency Range(MHz)	Number of channels
UNII Band I	IEEE 802.11a/n(HT20)/ac(HT20)	5180-5240	4
	IEEE 802.11n(HT40)/ac(HT40)	5190-5230	2
	IEEE 802.11ac(HT80)	5210	1
UNII Band II-A	IEEE 802.11a/n(HT20)/ac(HT20)	5260-5320	4
	IEEE 802.11n(HT40)/ac(HT40)	5270-5310	2
	IEEE 802.11ac(HT80)	5290	1
UNII Band II-C	IEEE 802.11a/n(HT20)/ac(HT20)	5500-5700	11
	IEEE 802.11n(HT40)/ac(HT40)	5510-5670	5
	IEEE 802.11ac(HT80)	5530,5610	2
UNII Band III	IEEE 802.11a/n(HT20)/ac(HT20)	5745-5825	5
	IEEE 802.11n(HT40)/ac(HT40)	5755-5795	2
	IEEE 802.11ac(HT80)	5775	1

Modulation Type: IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
IEEE 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)

DFS Function: Slave without radar detection

TPC Function: Not support

Antenna Type: PIFA antenna

Antenna Gain: 3.6dBi

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
Radiated Emissions which fall in the restricted bands	±5.08dB (1GHz-6GHz); ±5.14dB (above 6GHz)
Radiated Spurious Emissions (Below 1GHz)	±5.06dB (3m);±4.46dB (10m)
Radiated Spurious Emissions (Above 1GHz)	±5.08dB (1GHz-6GHz); ±5.14dB (above 6GHz)

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

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-12-23	2022-12-22
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2021-06-01	2022-05-31

Radiated Emissions which fall in the restricted bands					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
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	2021-12-17	2022-12-16
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
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	2021-08-30	2022-08-29

Radiated Spurious Emissions (Below 1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
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
				2022-02-22	2025-02-21
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-12-17	2022-12-16
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
Loop Antenna	ZHINAN	ZN3040	EMC2187	2022-03-27	2024-03-26

Radiated Spurious Emissions (Above 1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
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	2021-12-17	2022-12-16
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
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	2021-08-30	2022-08-29

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 Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna is a IPEX PIFA antenna and no consideration of replacement. The best case gain of the antenna is 3.6 dBi.

Antenna location: Refer to internal photo.

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		

7.1.1 E.U.T. Operation

Operating Environment:

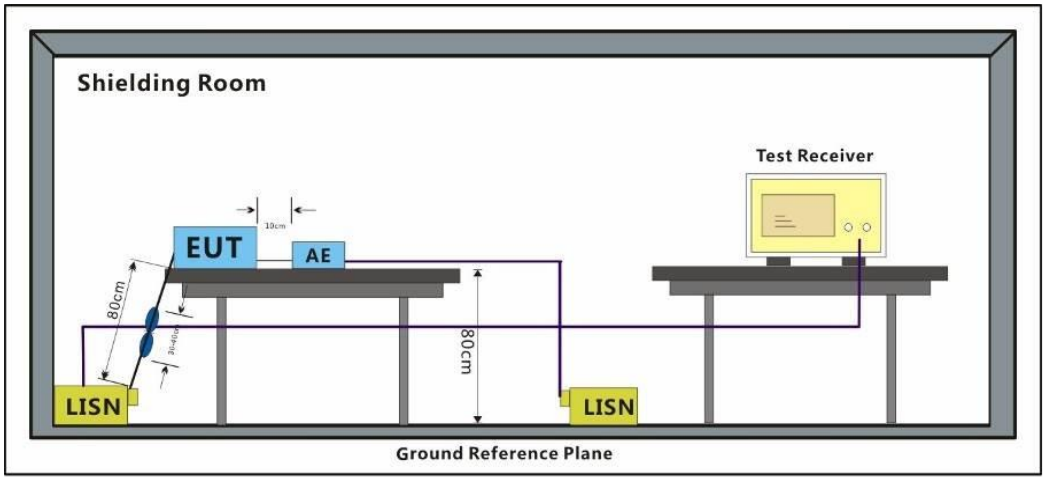
Temperature: 22.3 °C Humidity: 47.2 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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	18	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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	20	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and 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	22	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

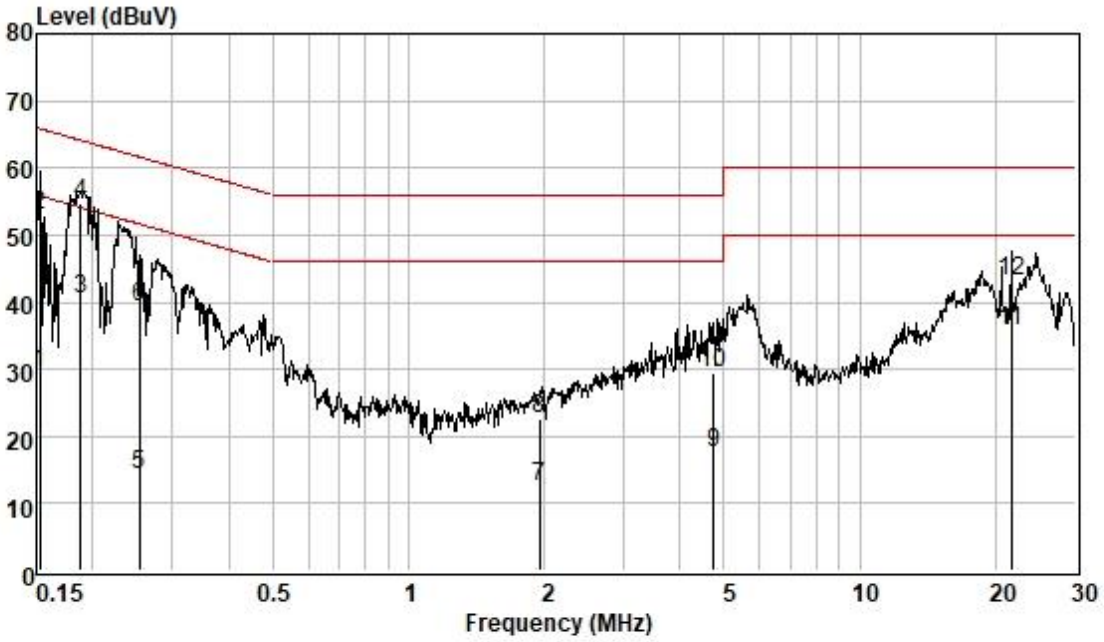
3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

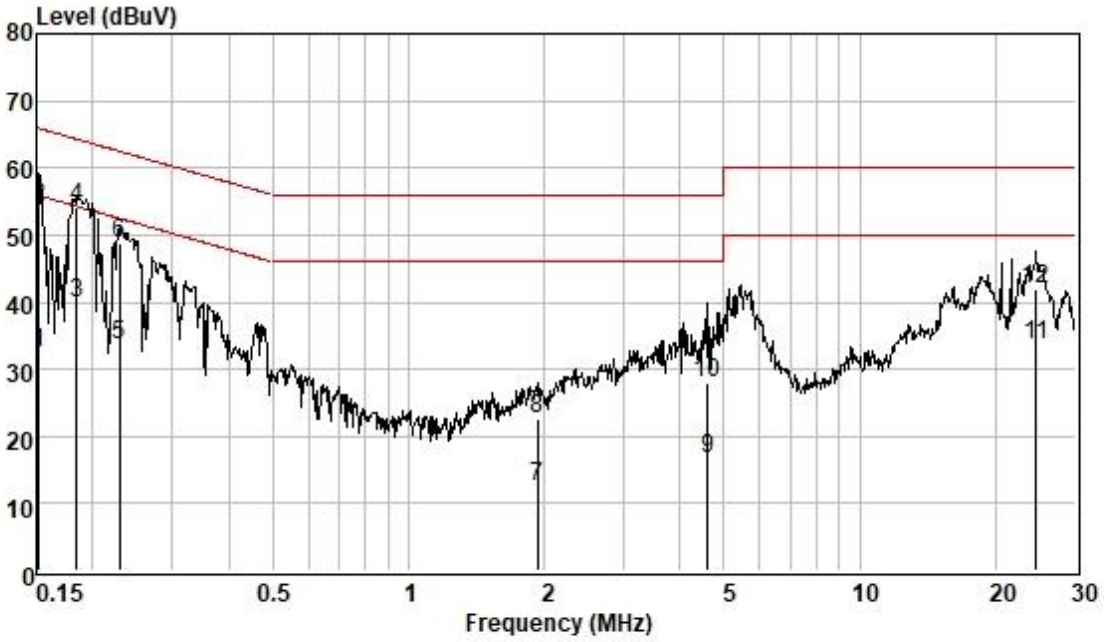
Test Mode: 16; Line: Live line



Pol :LINE
Mode :
Model :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.152	19.92	0.06	9.54	29.52	55.87	-26.35	Average
2	0.152	43.24	0.06	9.54	52.84	65.87	-13.03	QP
3	0.188	30.82	0.06	9.56	40.44	54.11	-13.67	Average
4	0.188	45.08	0.06	9.56	54.70	64.11	-9.41	QP
5	0.253	4.67	0.06	9.57	14.30	51.64	-37.34	Average
6	0.253	29.54	0.06	9.57	39.17	61.64	-22.47	QP
7	1.949	2.72	0.12	9.60	12.44	46.00	-33.56	Average
8	1.949	12.74	0.12	9.60	22.46	56.00	-33.54	QP
9	4.746	7.78	0.18	9.66	17.62	46.00	-28.38	Average
10	4.746	19.48	0.18	9.66	29.32	56.00	-26.68	QP
11	21.600	25.45	0.38	9.82	35.65	50.00	-14.35	Average
12	21.600	33.03	0.38	9.82	43.23	60.00	-16.77	QP

Test Mode: 16; Line: Neutral Line



Pol :NEUTRAL
Mode :
Model :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.152	22.74	0.06	9.53	32.33	55.91	-23.58	Average
2	0.152	44.49	0.06	9.53	54.08	65.91	-11.83	QP
3	0.184	30.36	0.06	9.55	39.97	54.28	-14.31	Average
4	0.184	44.37	0.06	9.55	53.98	64.28	-10.30	QP
5	0.229	23.98	0.06	9.56	33.60	52.48	-18.88	Average
6	0.229	39.23	0.06	9.56	48.85	62.48	-13.63	QP
7	1.928	2.66	0.12	9.59	12.37	46.00	-33.63	Average
8	1.928	12.86	0.12	9.59	22.57	56.00	-33.43	QP
9	4.598	6.87	0.18	9.65	16.70	46.00	-29.30	Average
10	4.598	18.00	0.18	9.65	27.83	56.00	-28.17	QP
11	24.529	23.24	0.40	9.90	33.54	50.00	-16.46	Average
12	24.529	31.75	0.40	9.90	42.05	60.00	-17.95	QP

7.2 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

Measurement Distance: 3m

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

*(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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 54.1 % RH Atmospheric Pressure: 1020 mbar

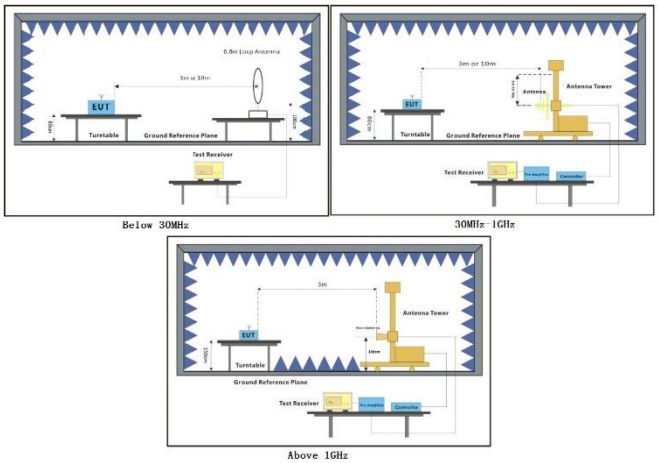
7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	15	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	16	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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	17	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	18	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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	19	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	20	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and 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	21	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.

Final test	22	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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.

7.2.3 Test Setup Diagram



7.2.4 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.

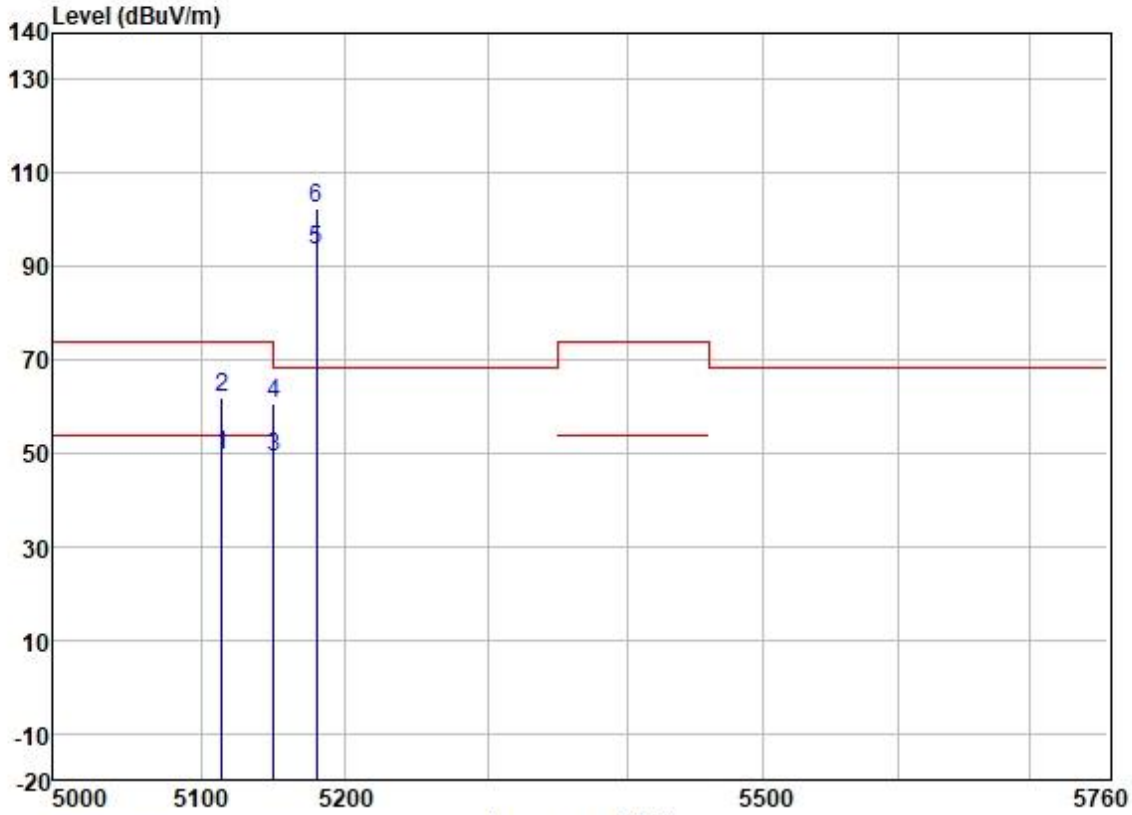
h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

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

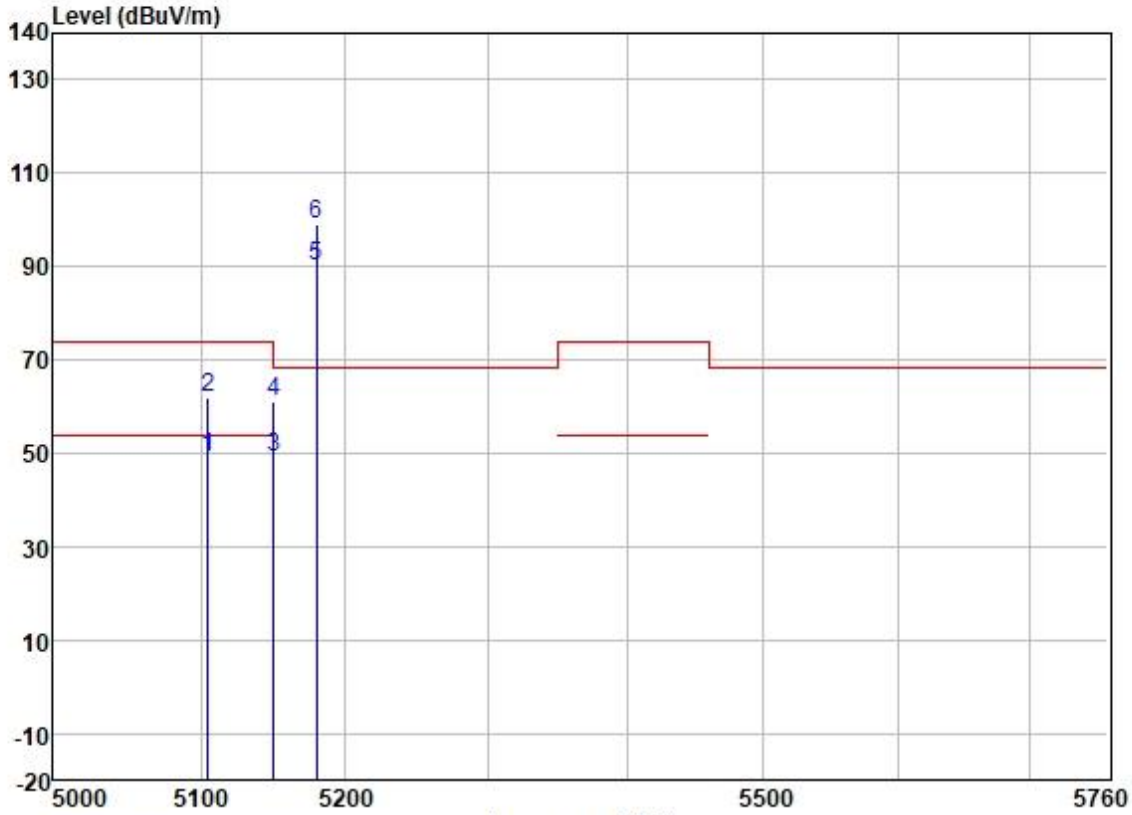
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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	5114.380	48.90	31.72	5.64	36.86	49.40	54.00	-4.60	HORIZONTAL	Average
2	5114.380	61.44	31.72	5.64	36.86	61.94	74.00	-12.06	HORIZONTAL	Peak
3	5149.980	48.57	31.72	5.62	36.86	49.05	54.00	-4.95	HORIZONTAL	Average
4	5149.980	59.97	31.72	5.62	36.86	60.45	74.00	-13.55	HORIZONTAL	Peak
5	5180.000	93.18	31.73	5.61	36.87	93.65	------	------	HORIZONTAL	Average
6 *	5180.000	102.01	31.73	5.61	36.87	102.48	68.20	34.28	HORIZONTAL	Peak

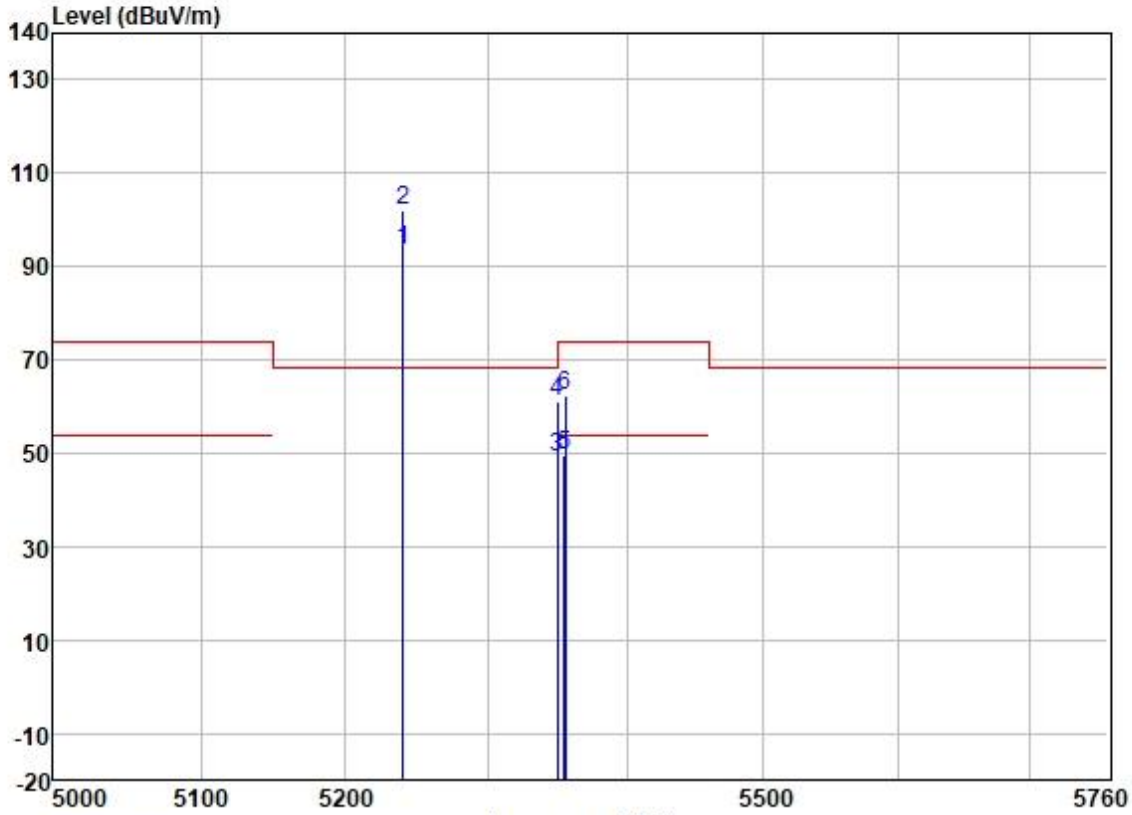
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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	5104.756	48.80	31.72	5.65	36.86	49.31	54.00	-4.69	VERTICAL	Average
2	5104.756	61.33	31.72	5.65	36.86	61.84	74.00	-12.16	VERTICAL	Peak
3	5149.980	48.45	31.72	5.62	36.86	48.93	54.00	-5.07	VERTICAL	Average
4	5149.980	60.45	31.72	5.62	36.86	60.93	74.00	-13.07	VERTICAL	Peak
5	5180.000	89.75	31.73	5.61	36.87	90.22	------	------	VERTICAL	Average
6 *	5180.000	98.36	31.73	5.61	36.87	98.83	68.20	30.63	VERTICAL	Peak

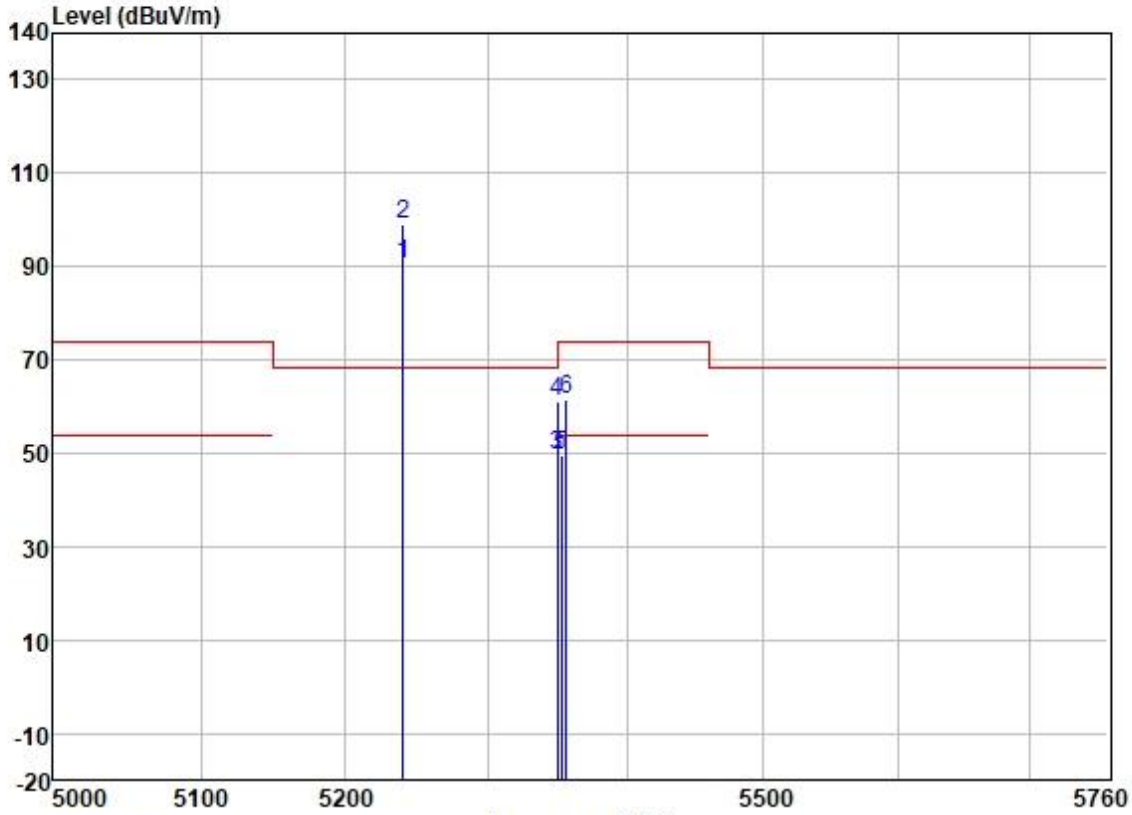
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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	92.77	31.75	5.74	36.87	93.39	------	------	HORIZONTAL	Average
2	*	5240.000	101.49	31.75	5.74	36.87	102.11	68.20	33.91	HORIZONTAL	Peak
3		5350.020	48.39	31.77	6.05	36.88	49.33	54.00	-4.67	HORIZONTAL	Average
4		5350.020	60.06	31.77	6.05	36.88	61.00	74.00	-13.00	HORIZONTAL	Peak
5		5355.037	48.56	31.78	6.03	36.88	49.49	54.00	-4.51	HORIZONTAL	Average
6		5355.179	61.24	31.78	6.03	36.88	62.17	74.00	-11.83	HORIZONTAL	Peak

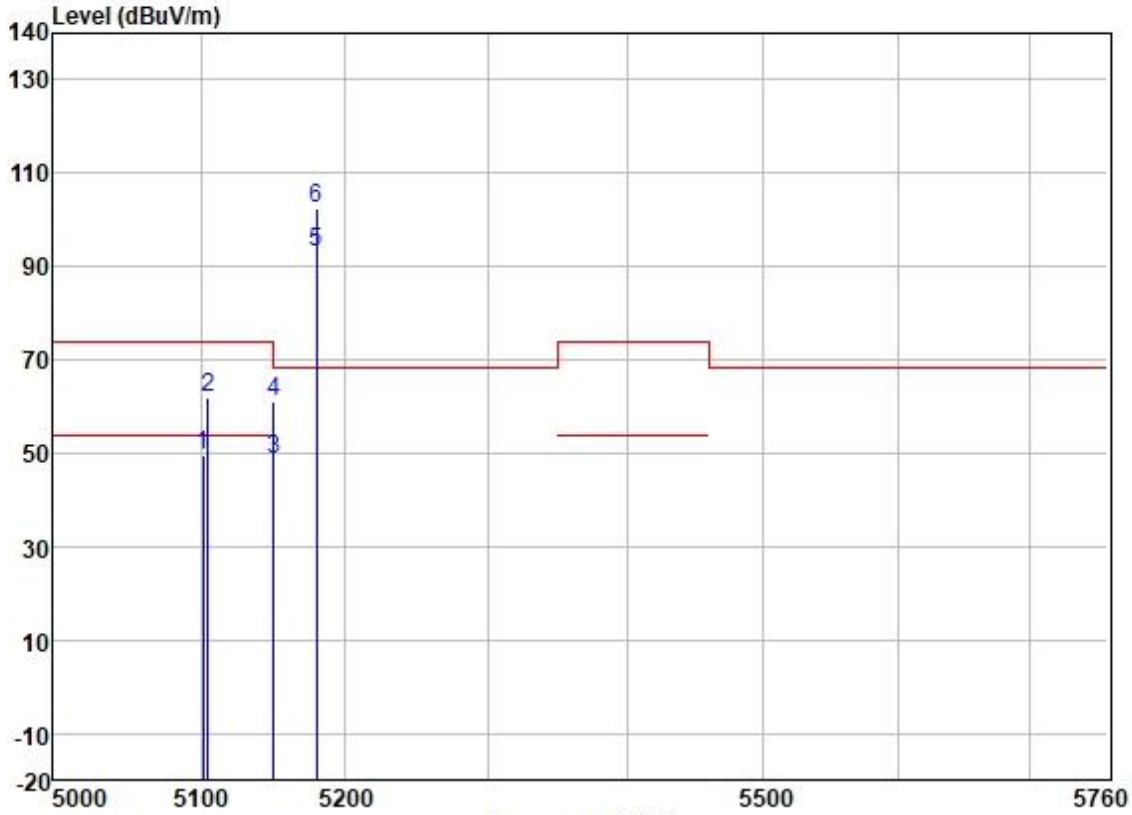
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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	89.90	31.75	5.74	36.87	90.52	------	------	VERTICAL	Average
2	*	5240.000	98.57	31.75	5.74	36.87	99.19	68.20	30.99	VERTICAL	Peak
3		5350.020	48.44	31.77	6.05	36.88	49.38	54.00	-4.62	VERTICAL	Average
4		5350.020	59.98	31.77	6.05	36.88	60.92	74.00	-13.08	VERTICAL	Peak
5		5352.770	48.55	31.77	6.05	36.88	49.49	54.00	-4.51	VERTICAL	Average
6		5356.029	60.73	31.78	6.03	36.88	61.66	74.00	-12.34	VERTICAL	Peak

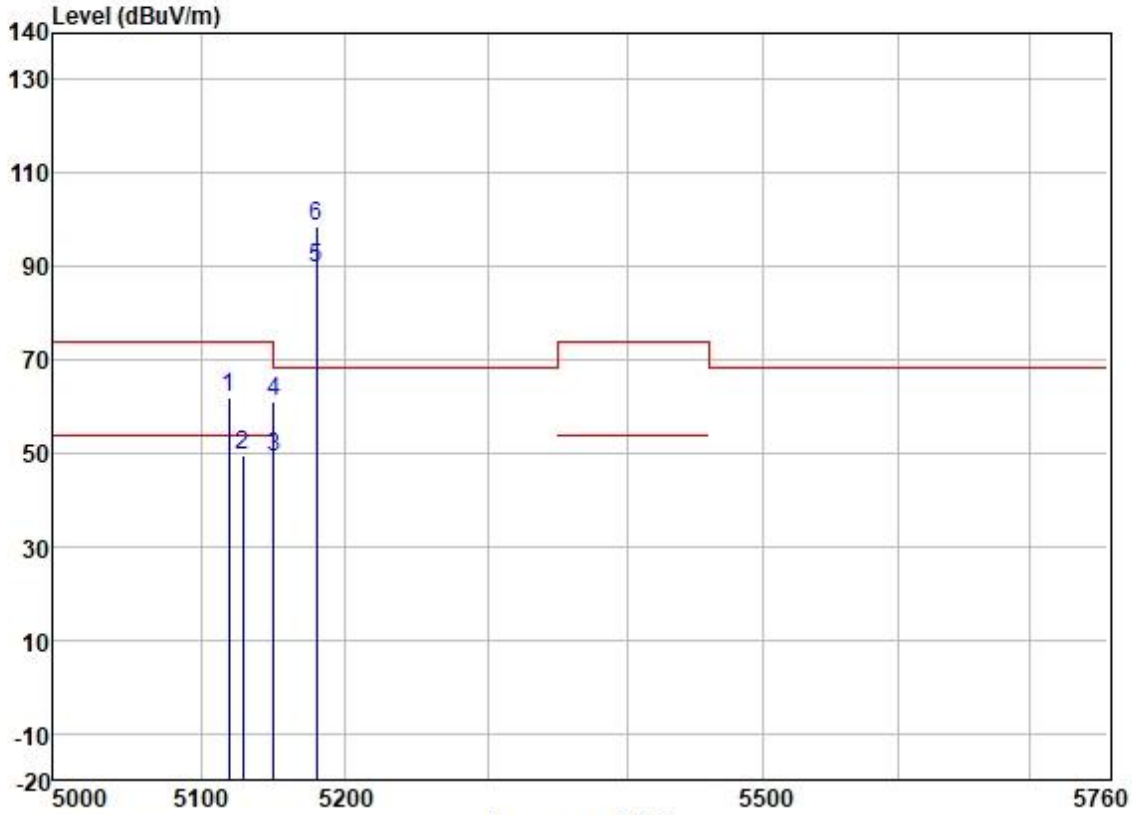
Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	5101.585	48.90	31.72	5.65	36.86	49.41	54.00	-4.59	HORIZONTAL	Average
2	5104.657	61.59	31.72	5.65	36.86	62.10	74.00	-11.90	HORIZONTAL	Peak
3	5149.980	48.42	31.72	5.62	36.86	48.90	54.00	-5.10	HORIZONTAL	Average
4	5149.980	60.38	31.72	5.62	36.86	60.86	74.00	-13.14	HORIZONTAL	Peak
5	5180.000	92.78	31.73	5.61	36.87	93.25	------	------	HORIZONTAL	Average
6 *	5180.000	102.15	31.73	5.61	36.87	102.62	68.20	34.42	HORIZONTAL	Peak

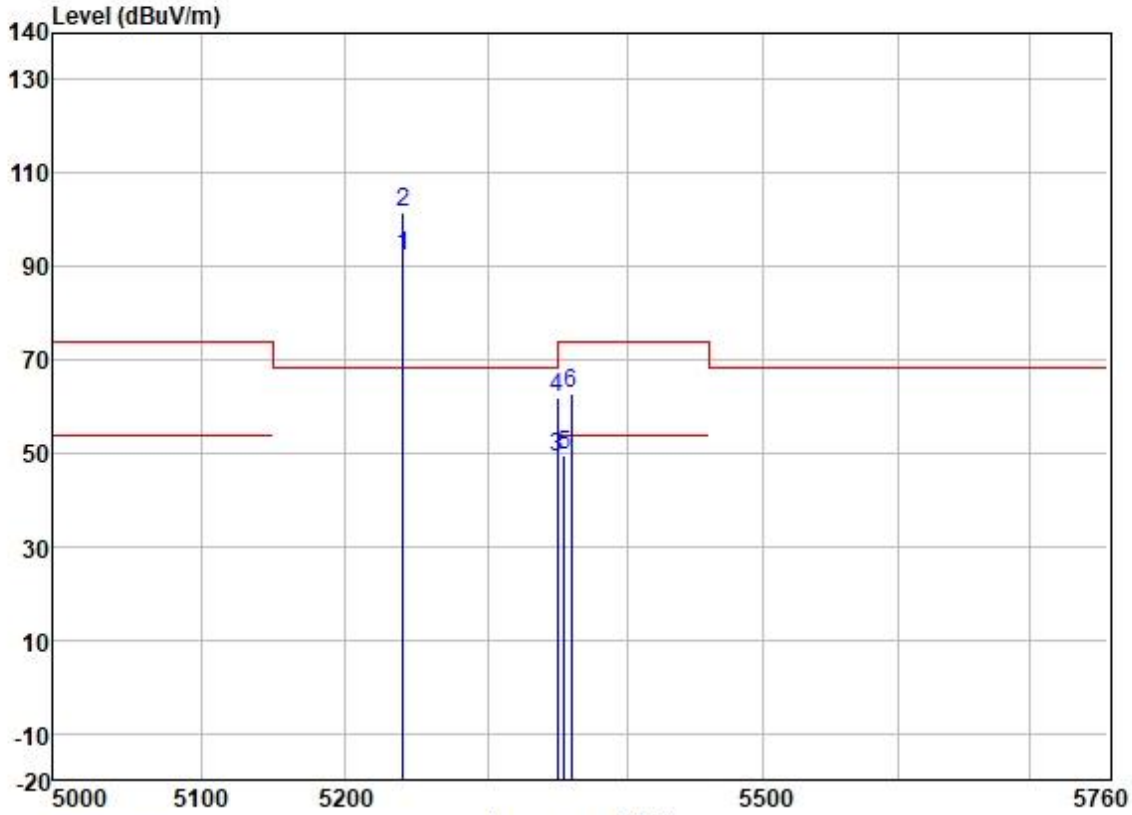
Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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		5119.050	61.39	31.72	5.64	36.86	61.89	74.00	-12.11	VERTICAL	Peak
2		5128.501	48.86	31.72	5.63	36.86	49.35	54.00	-4.65	VERTICAL	Average
3		5149.980	48.48	31.72	5.62	36.86	48.96	54.00	-5.04	VERTICAL	Average
4		5149.980	60.56	31.72	5.62	36.86	61.04	74.00	-12.96	VERTICAL	Peak
5		5180.000	89.13	31.73	5.61	36.87	89.60	------	------	VERTICAL	Average
6	*	5180.000	97.98	31.73	5.61	36.87	98.45	68.20	30.25	VERTICAL	Peak

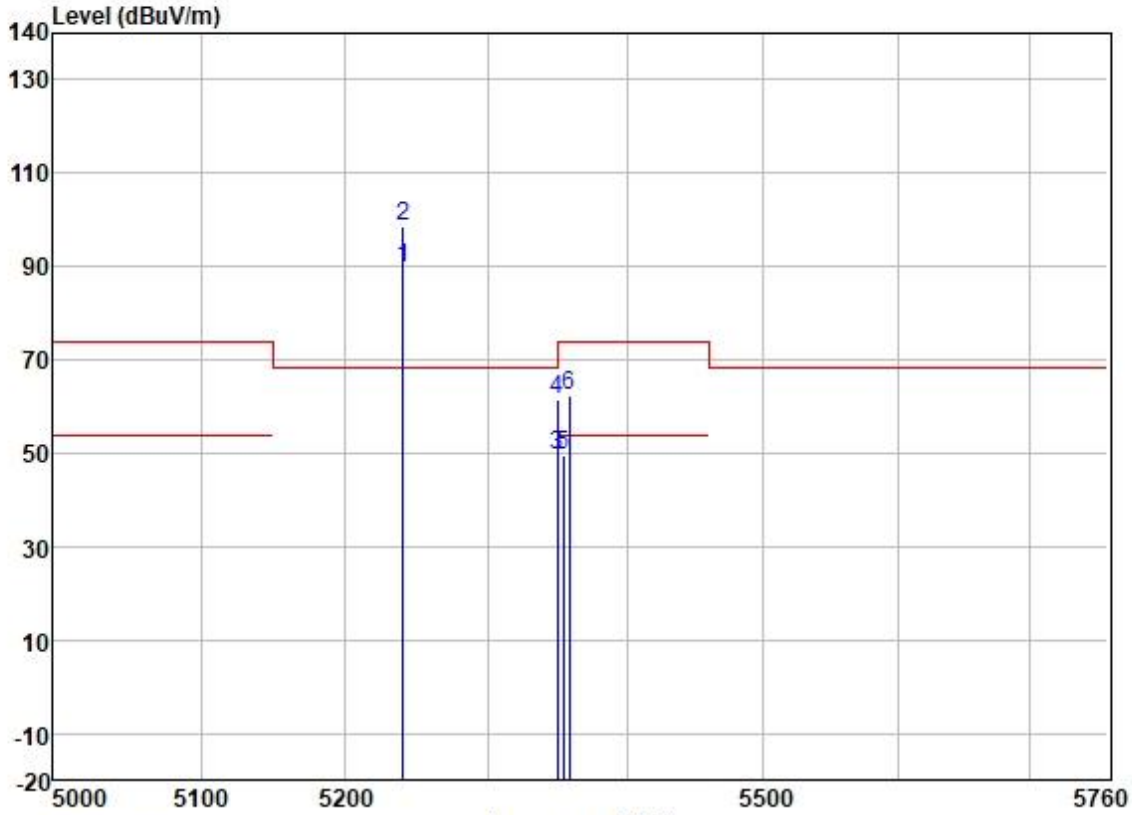
Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	91.59	31.75	5.74	36.87	92.21	------	------	HORIZONTAL	Average
2	*	5240.000	100.79	31.75	5.74	36.87	101.41	68.20	33.21	HORIZONTAL	Peak
3		5350.020	48.33	31.77	6.05	36.88	49.27	54.00	-4.73	HORIZONTAL	Average
4		5350.020	61.00	31.77	6.05	36.88	61.94	74.00	-12.06	HORIZONTAL	Peak
5		5354.470	48.48	31.78	6.03	36.88	49.41	54.00	-4.59	HORIZONTAL	Average
6		5360.000	61.79	31.78	6.03	36.88	62.72	74.00	-11.28	HORIZONTAL	Peak

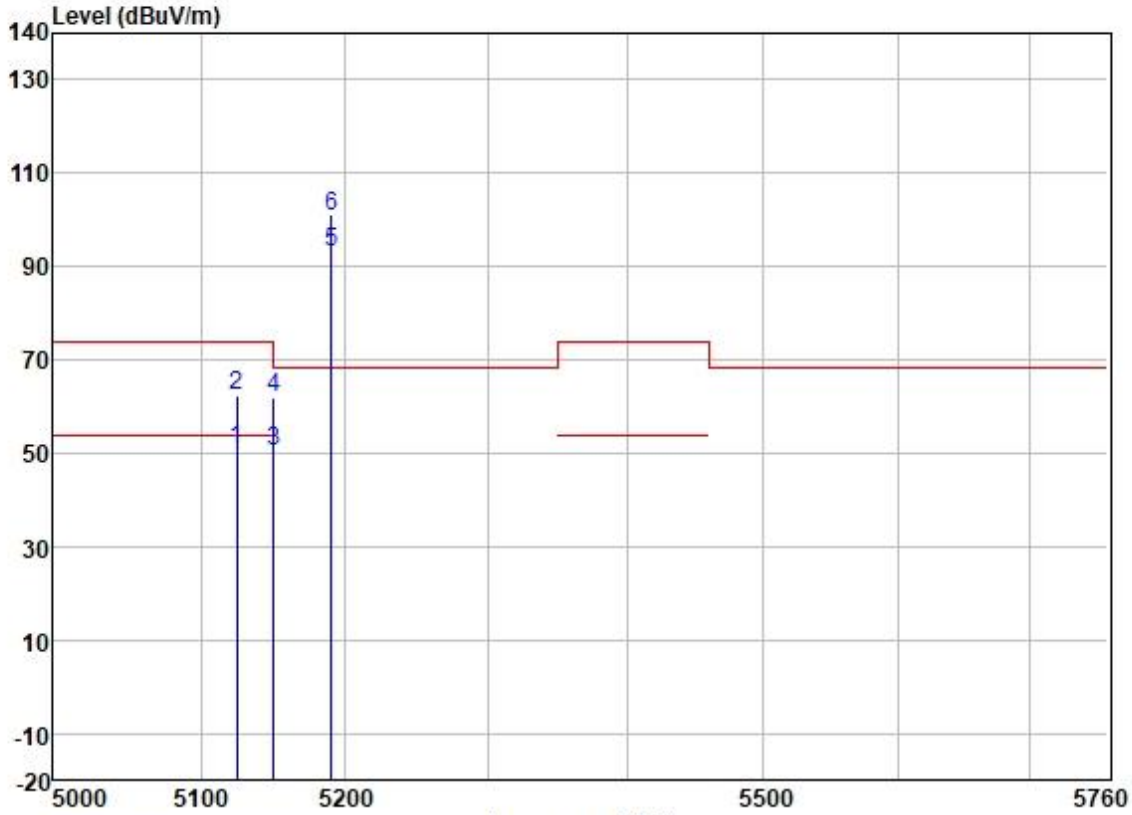
Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	88.98	31.75	5.74	36.87	89.60	------	------	VERTICAL	Average
2	*	5240.000	98.00	31.75	5.74	36.87	98.62	68.20	30.42	VERTICAL	Peak
3		5350.020	48.43	31.77	6.05	36.88	49.37	54.00	-4.63	VERTICAL	Average
4		5350.020	60.68	31.77	6.05	36.88	61.62	74.00	-12.38	VERTICAL	Peak
5		5353.762	48.44	31.77	6.05	36.88	49.38	54.00	-4.62	VERTICAL	Average
6		5358.156	61.45	31.78	6.03	36.88	62.38	74.00	-11.62	VERTICAL	Peak

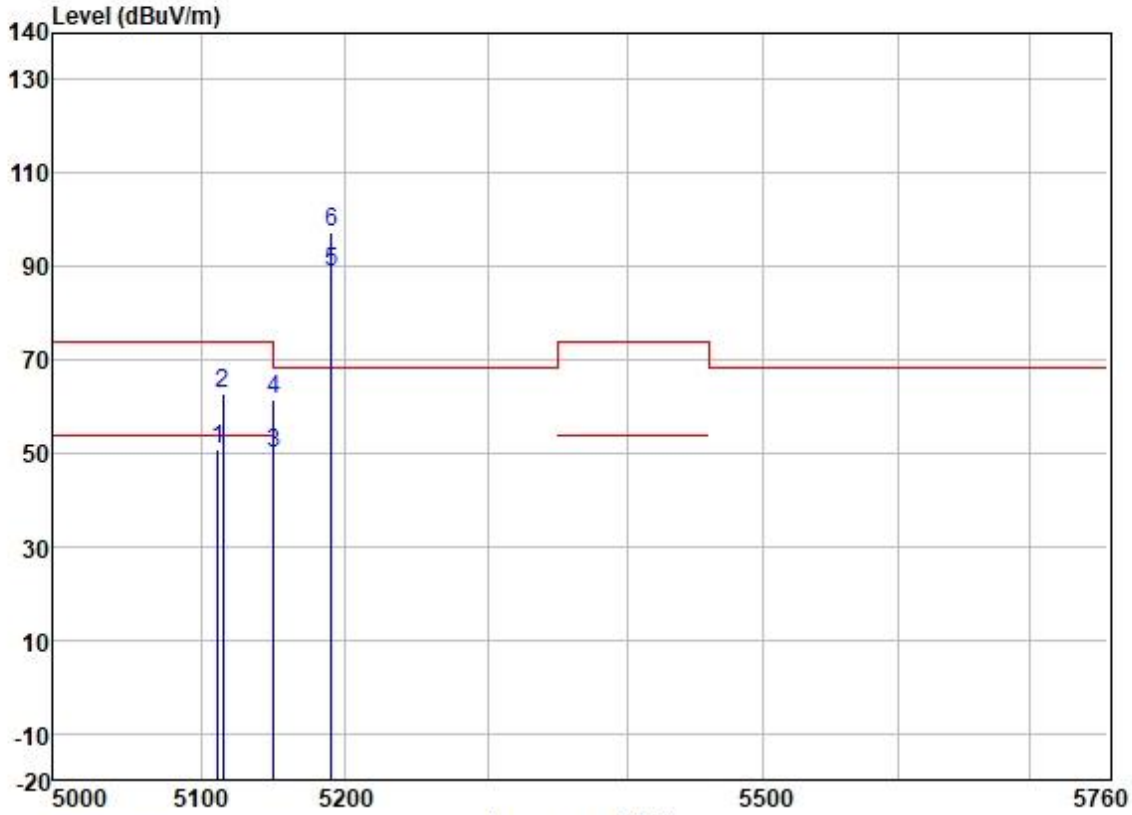
Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	5124.611	50.28	31.72	5.64	36.86	50.78	54.00	-3.22	HORIZONTAL	Average
2	5124.611	62.03	31.72	5.64	36.86	62.53	74.00	-11.47	HORIZONTAL	Peak
3	5149.980	50.03	31.72	5.62	36.86	50.51	54.00	-3.49	HORIZONTAL	Average
4	5149.980	61.36	31.72	5.62	36.86	61.84	74.00	-12.16	HORIZONTAL	Peak
5	5190.000	92.79	31.73	5.60	36.87	93.25	------	------	HORIZONTAL	Average
6 *	5190.000	100.50	31.73	5.60	36.87	100.96	68.20	32.76	HORIZONTAL	Peak

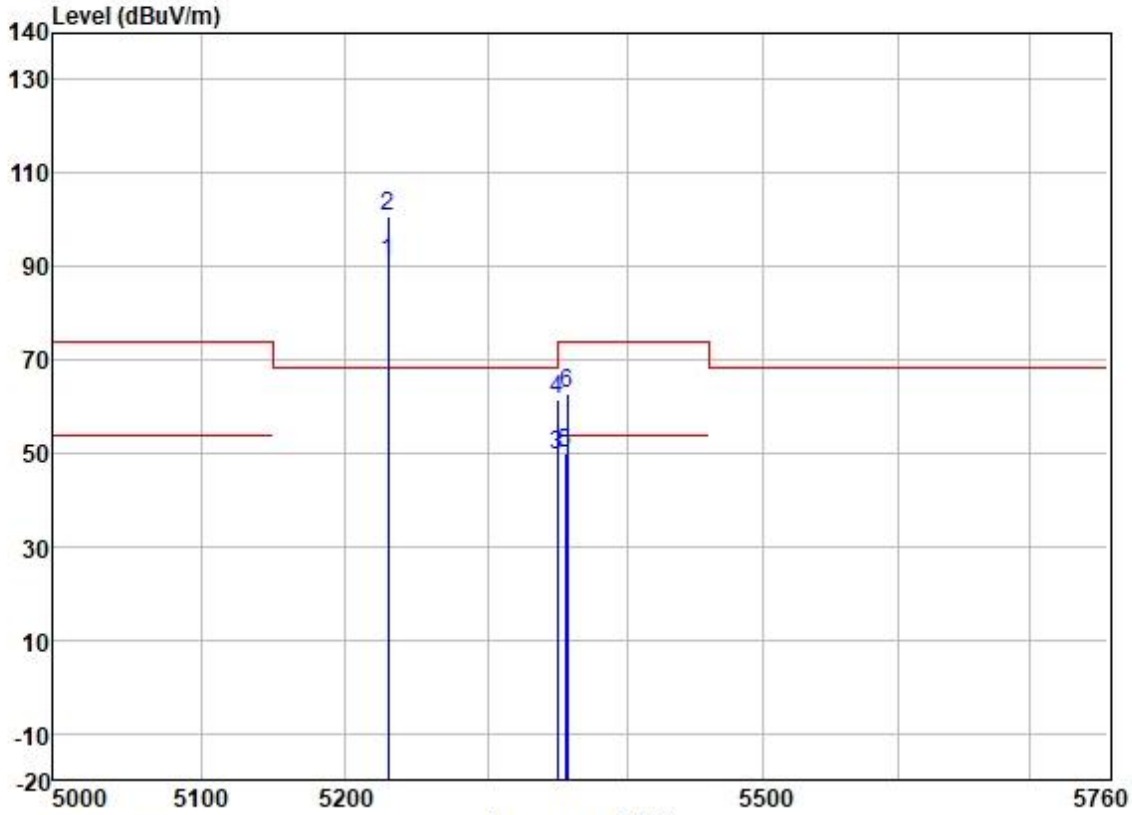
Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	5111.637	50.27	31.72	5.65	36.86	50.78	54.00	-3.22	VERTICAL	Average
2	5115.324	62.10	31.72	5.64	36.86	62.60	74.00	-11.40	VERTICAL	Peak
3	5149.980	49.69	31.72	5.62	36.86	50.17	54.00	-3.83	VERTICAL	Average
4	5149.980	60.92	31.72	5.62	36.86	61.40	74.00	-12.60	VERTICAL	Peak
5	5190.000	88.34	31.73	5.60	36.87	88.80	------	------	VERTICAL	Average
6 *	5190.000	96.99	31.73	5.60	36.87	97.45	68.20	29.25	VERTICAL	Peak

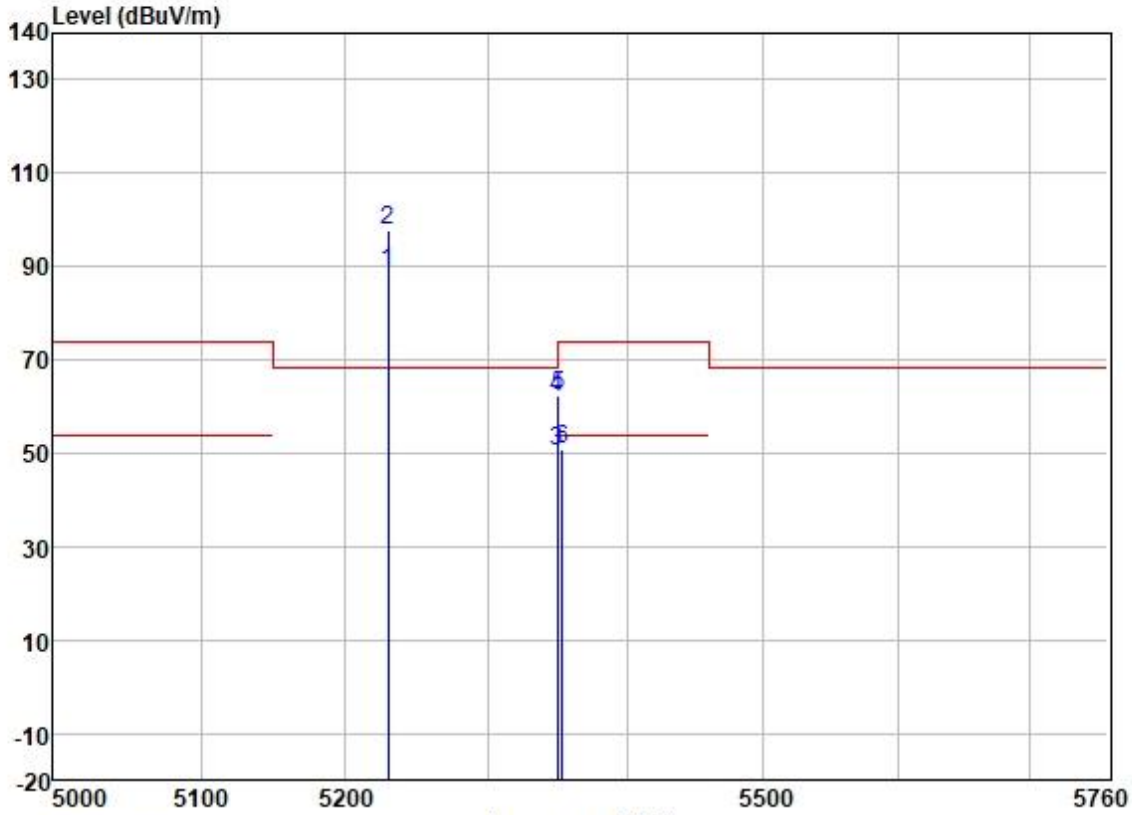
Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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		5230.000	90.56	31.74	5.70	36.87	91.13	------	------	HORIZONTAL	Average
2	*	5230.000	100.35	31.74	5.70	36.87	100.92	68.20	32.72	HORIZONTAL	Peak
3		5350.020	48.70	31.77	6.05	36.88	49.64	54.00	-4.36	HORIZONTAL	Average
4		5350.020	60.56	31.77	6.05	36.88	61.50	74.00	-12.50	HORIZONTAL	Peak
5		5355.129	49.11	31.78	6.03	36.88	50.04	54.00	-3.96	HORIZONTAL	Average
6		5356.752	61.88	31.78	6.03	36.88	62.81	74.00	-11.19	HORIZONTAL	Peak

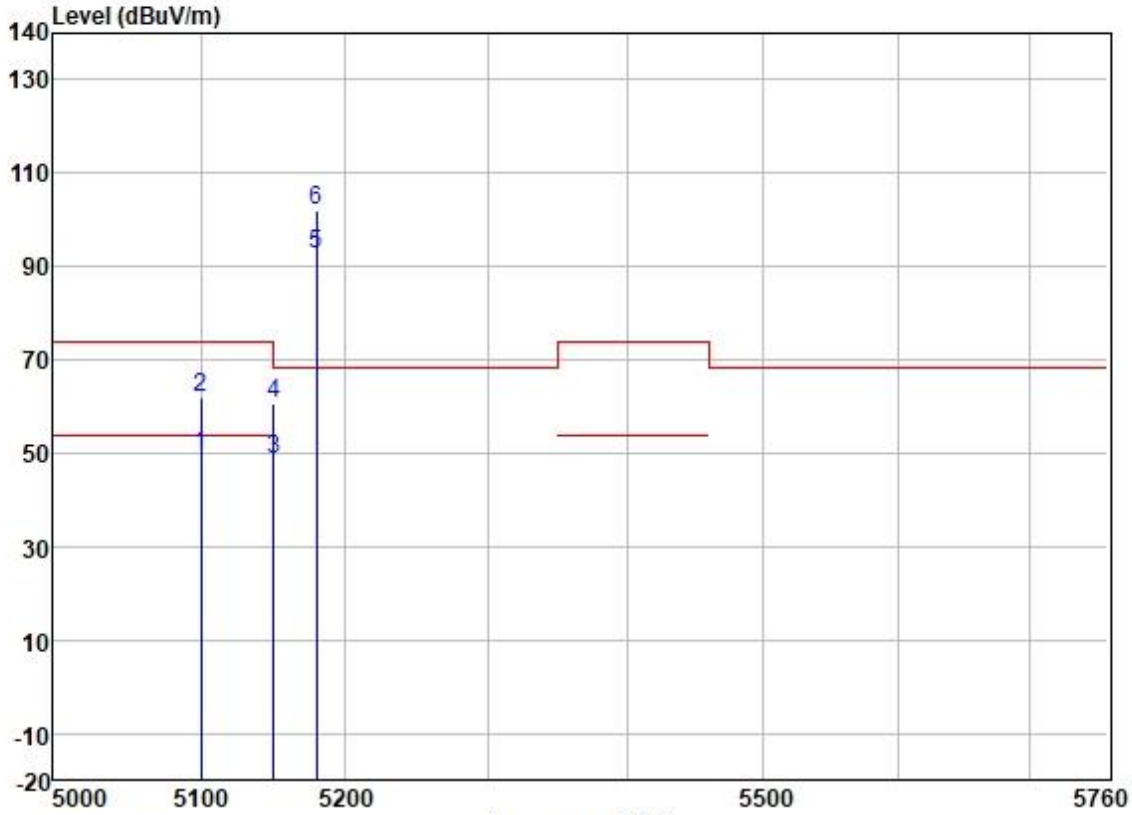
Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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		5230.000	88.17	31.74	5.70	36.87	88.74	------	------	VERTICAL	Average
2	*	5230.000	97.15	31.74	5.70	36.87	97.72	68.20	29.52	VERTICAL	Peak
3		5350.020	49.57	31.77	6.05	36.88	50.51	54.00	-3.49	VERTICAL	Average
4		5350.020	61.19	31.77	6.05	36.88	62.13	74.00	-11.87	VERTICAL	Peak
5		5350.587	61.37	31.77	6.05	36.88	62.31	74.00	-11.69	VERTICAL	Peak
6		5353.344	49.83	31.77	6.05	36.88	50.77	54.00	-3.23	VERTICAL	Average

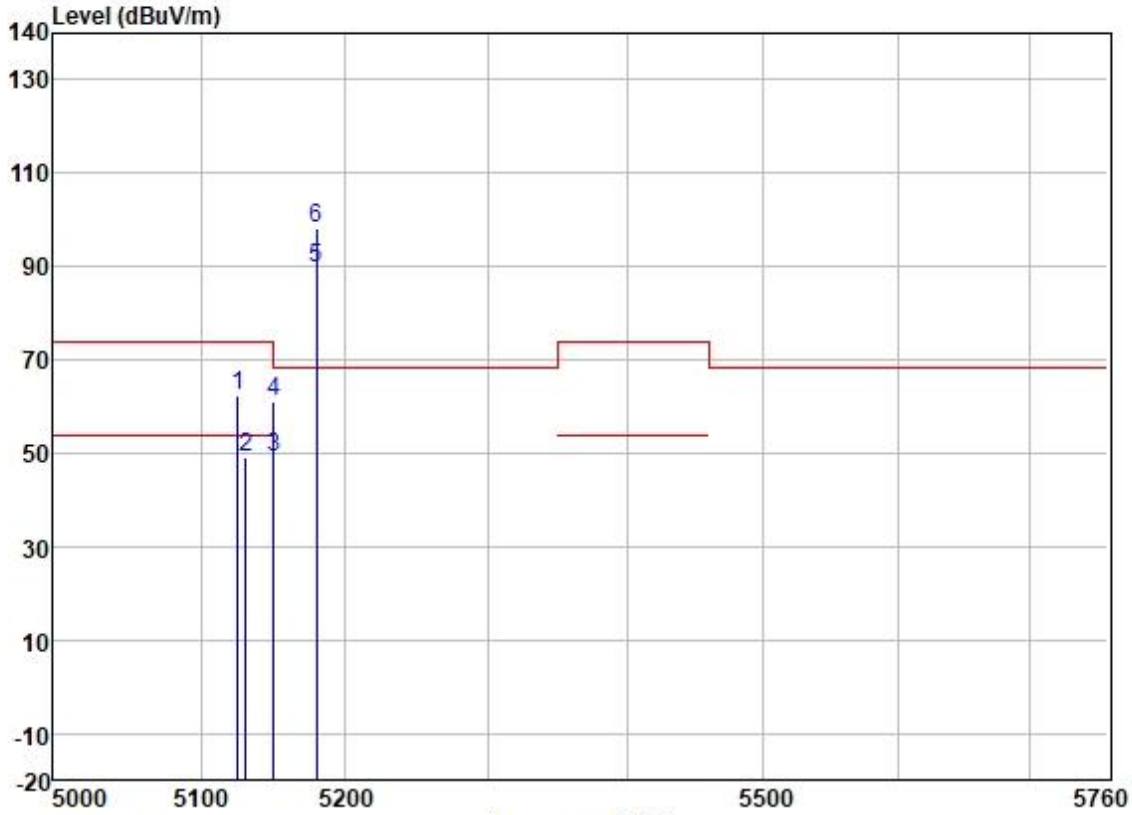
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



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		5100.099	48.92	31.72	5.65	36.86	49.43	54.00	-4.57	HORIZONTAL	Average
2		5100.099	61.46	31.72	5.65	36.86	61.97	74.00	-12.03	HORIZONTAL	Peak
3		5149.980	48.42	31.72	5.62	36.86	48.90	54.00	-5.10	HORIZONTAL	Average
4		5149.980	60.17	31.72	5.62	36.86	60.65	74.00	-13.35	HORIZONTAL	Peak
5		5180.000	92.31	31.73	5.61	36.87	92.78	------	------	HORIZONTAL	Average
6	*	5180.000	101.75	31.73	5.61	36.87	102.22	68.20	34.02	HORIZONTAL	Peak

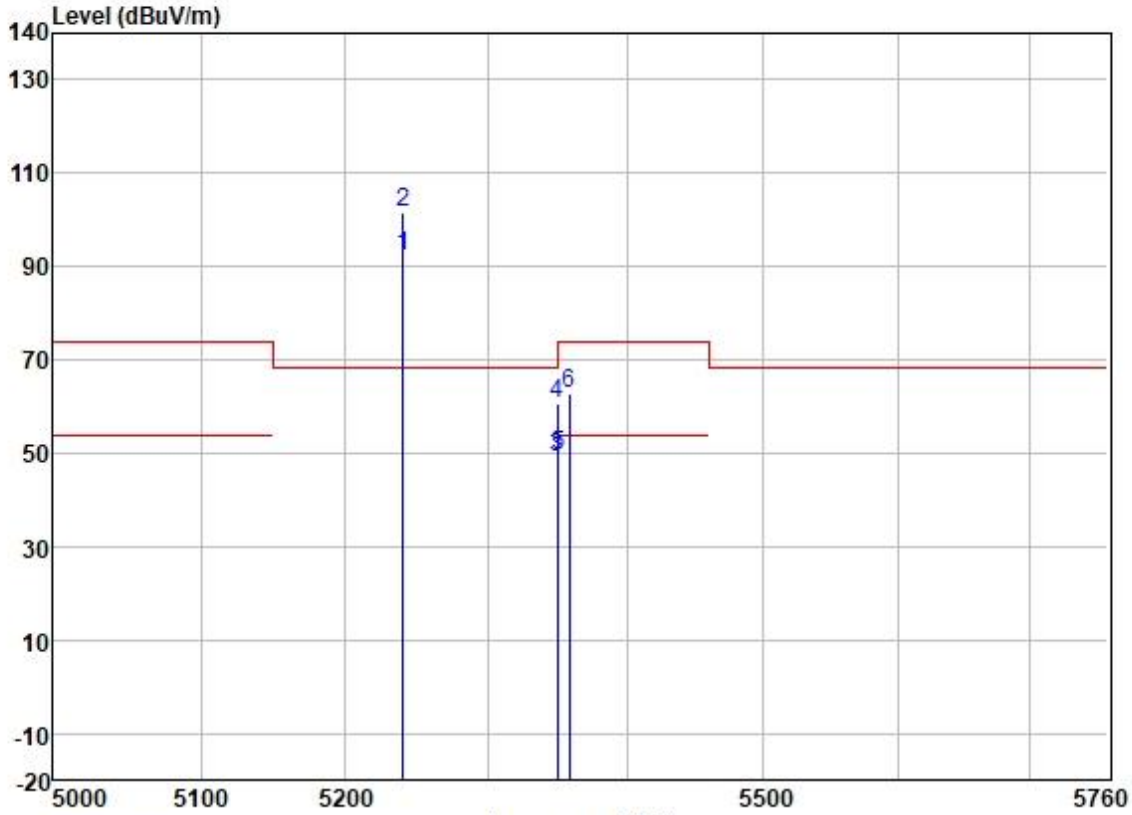
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



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	5125.416	61.70	31.72	5.64	36.86	62.20	74.00	-11.80	VERTICAL	Peak
2	5130.693	48.81	31.72	5.63	36.86	49.30	54.00	-4.70	VERTICAL	Average
3	5149.980	48.56	31.72	5.62	36.86	49.04	54.00	-4.96	VERTICAL	Average
4	5149.980	60.54	31.72	5.62	36.86	61.02	74.00	-12.98	VERTICAL	Peak
5	5180.000	89.02	31.73	5.61	36.87	89.49	------	------	VERTICAL	Average
6 *	5180.000	97.88	31.73	5.61	36.87	98.35	68.20	30.15	VERTICAL	Peak

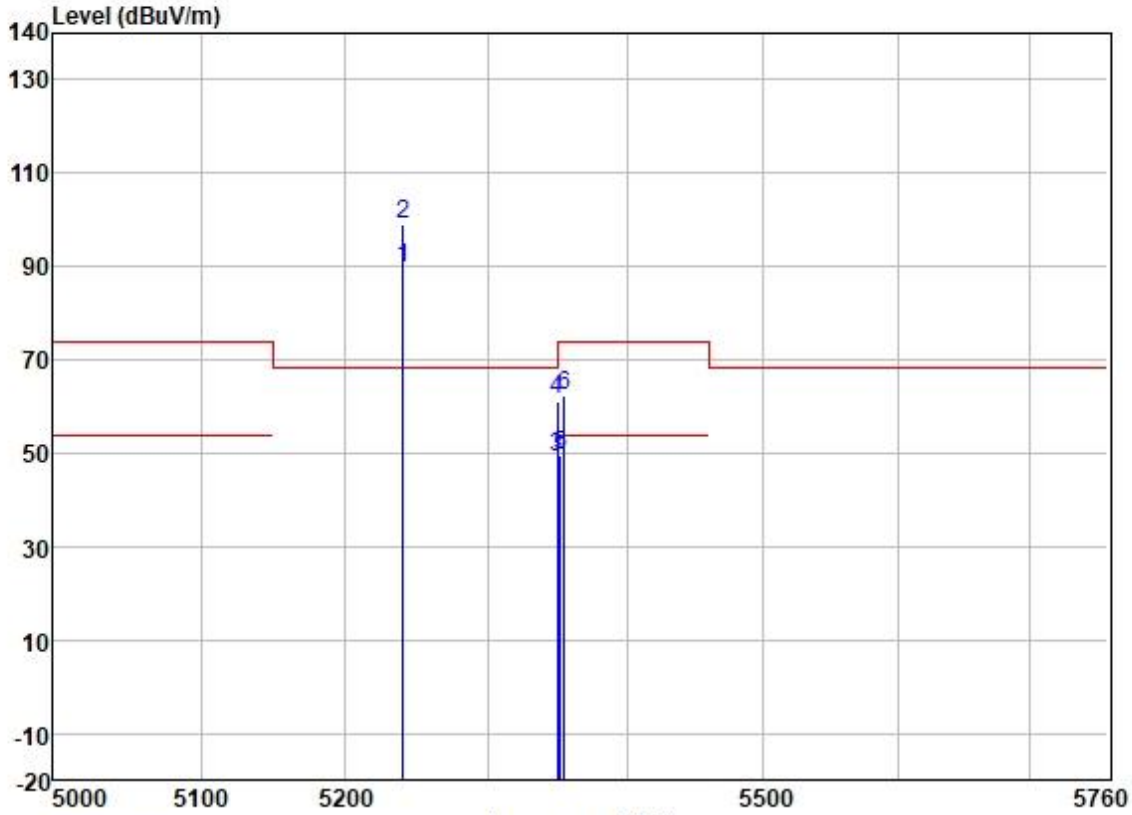
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



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	91.79	31.75	5.74	36.87	92.41	------	------	HORIZONTAL	Average
2	*	5240.000	100.88	31.75	5.74	36.87	101.50	68.20	33.30	HORIZONTAL	Peak
3		5350.020	48.37	31.77	6.05	36.88	49.31	54.00	-4.69	HORIZONTAL	Average
4		5350.020	59.71	31.77	6.05	36.88	60.65	74.00	-13.35	HORIZONTAL	Peak
5		5350.362	48.55	31.77	6.05	36.88	49.49	54.00	-4.51	HORIZONTAL	Average
6		5358.014	61.66	31.78	6.03	36.88	62.59	74.00	-11.41	HORIZONTAL	Peak

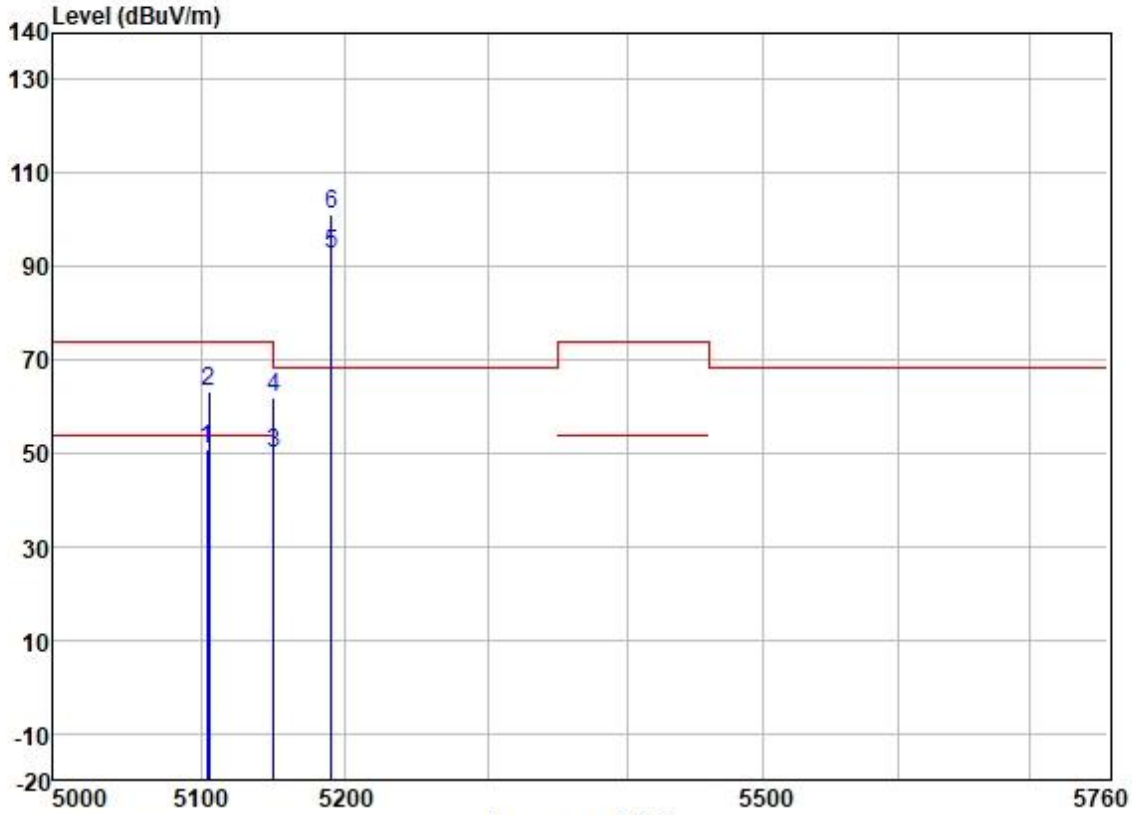
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



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		5240.000	89.15	31.75	5.74	36.87	89.77	------	------	VERTICAL	Average
2	*	5240.000	98.30	31.75	5.74	36.87	98.92	68.20	30.72	VERTICAL	Peak
3		5350.020	48.28	31.77	6.05	36.88	49.22	54.00	-4.78	VERTICAL	Average
4		5350.020	60.34	31.77	6.05	36.88	61.28	74.00	-12.72	VERTICAL	Peak
5		5351.637	48.55	31.77	6.05	36.88	49.49	54.00	-4.51	VERTICAL	Average
6		5354.612	61.28	31.78	6.03	36.88	62.21	74.00	-11.79	VERTICAL	Peak

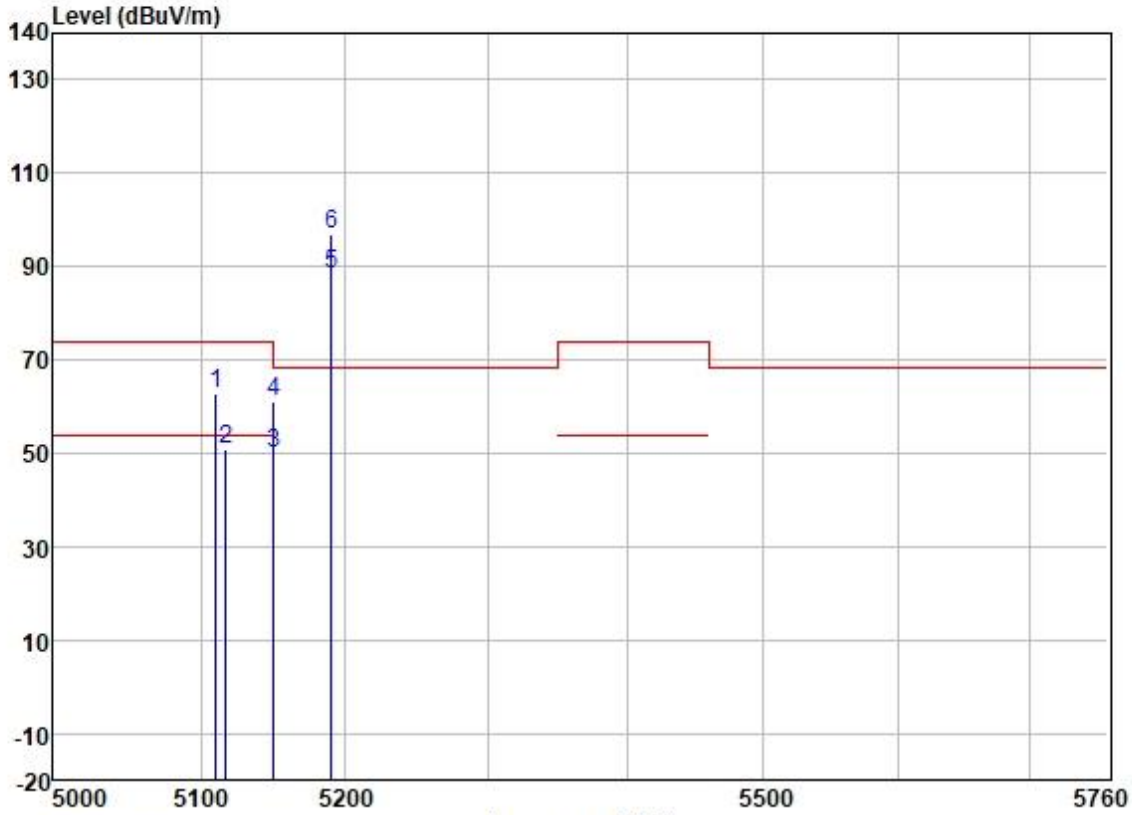
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



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	5104.272	50.25	31.72	5.65	36.86	50.76	54.00	-3.24	HORIZONTAL	Average
2	5105.696	62.66	31.72	5.65	36.86	63.17	74.00	-10.83	HORIZONTAL	Peak
3	5149.980	49.67	31.72	5.62	36.86	50.15	54.00	-3.85	HORIZONTAL	Average
4	5149.980	61.34	31.72	5.62	36.86	61.82	74.00	-12.18	HORIZONTAL	Peak
5	5190.000	92.19	31.73	5.60	36.87	92.65	------	------	HORIZONTAL	Average
6 *	5190.000	100.91	31.73	5.60	36.87	101.37	68.20	33.17	HORIZONTAL	Peak

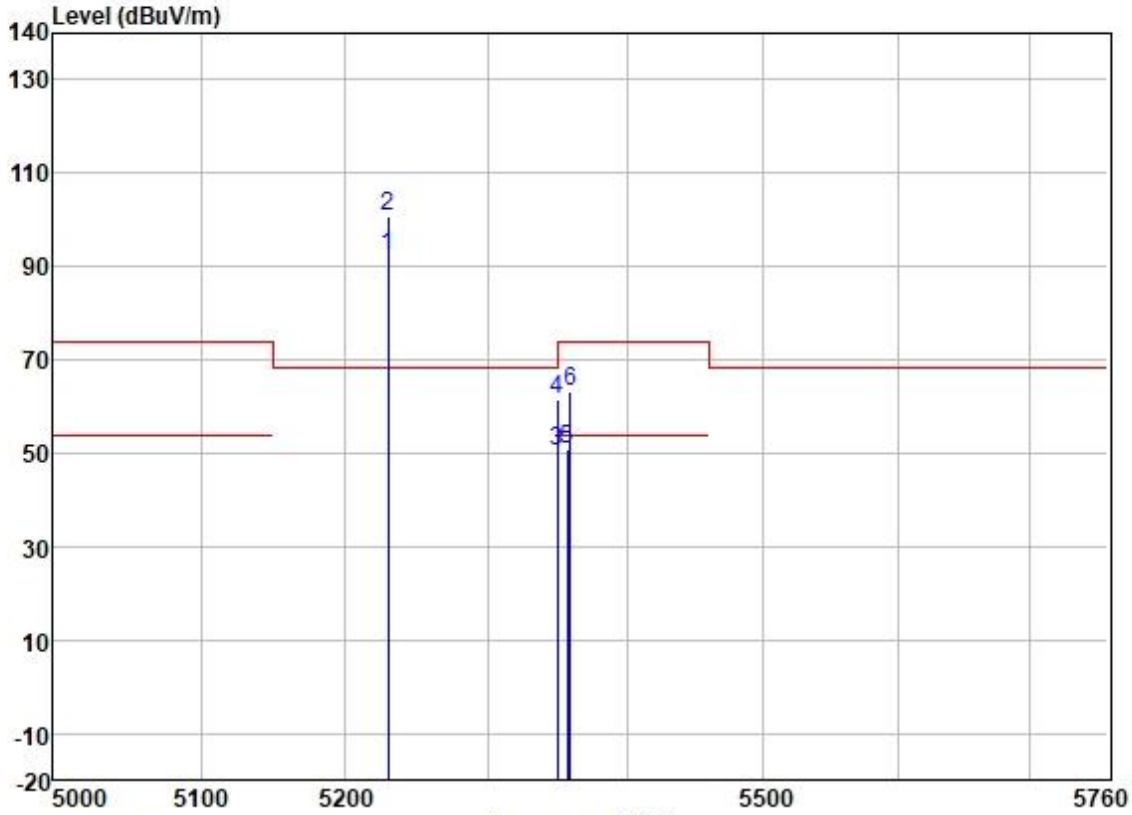
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



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		5110.567	62.47	31.72	5.65	36.86	62.98	74.00	-11.02	VERTICAL	Peak
2		5117.347	50.16	31.72	5.64	36.86	50.66	54.00	-3.34	VERTICAL	Average
3		5149.980	49.64	31.72	5.62	36.86	50.12	54.00	-3.88	VERTICAL	Average
4		5149.980	60.79	31.72	5.62	36.86	61.27	74.00	-12.73	VERTICAL	Peak
5		5190.000	87.95	31.73	5.60	36.87	88.41	------	------	VERTICAL	Average
6	*	5190.000	96.65	31.73	5.60	36.87	97.11	68.20	28.91	VERTICAL	Peak

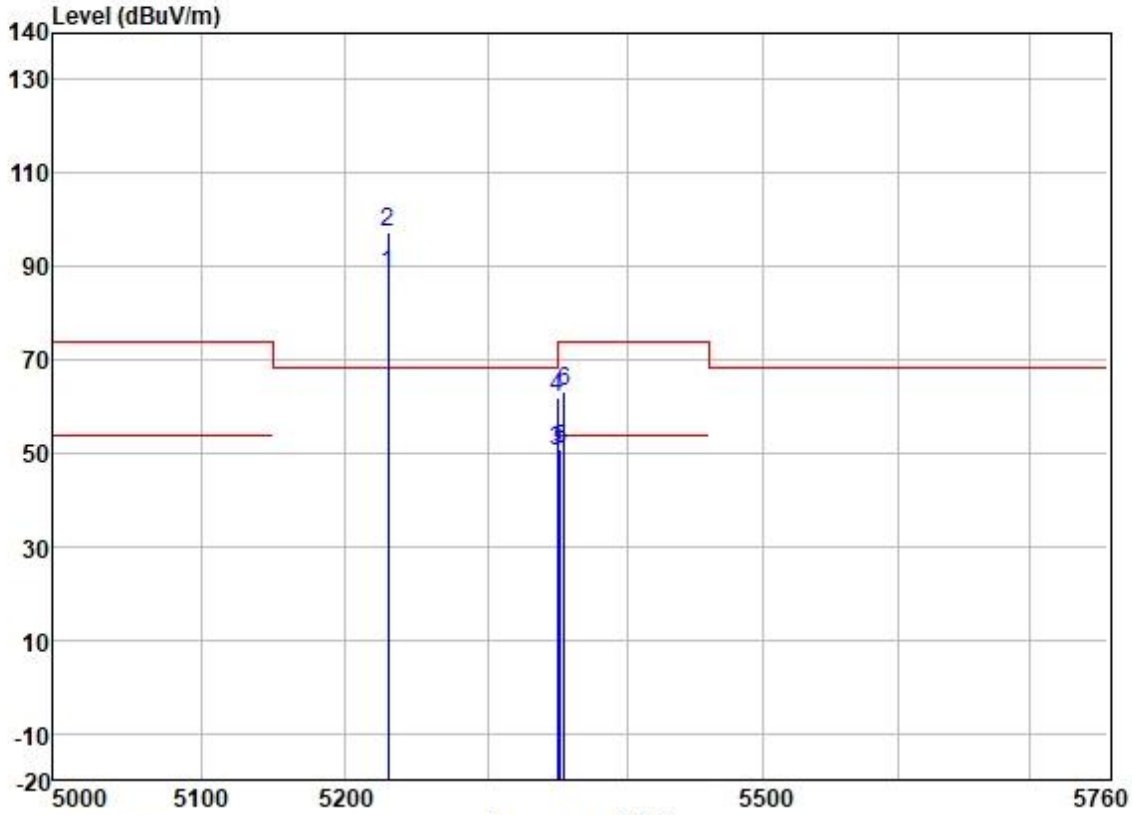
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



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	91.50	31.74	5.70	36.87	92.07	------	------	HORIZONTAL	Average
2	*	5230.000	100.08	31.74	5.70	36.87	100.65	68.20	32.45	HORIZONTAL	Peak
3		5350.020	49.52	31.77	6.05	36.88	50.46	54.00	-3.54	HORIZONTAL	Average
4		5350.020	60.55	31.77	6.05	36.88	61.49	74.00	-12.51	HORIZONTAL	Peak
5		5357.239	49.77	31.78	6.03	36.88	50.70	54.00	-3.30	HORIZONTAL	Average
6		5358.701	62.21	31.78	6.03	36.88	63.14	74.00	-10.86	HORIZONTAL	Peak

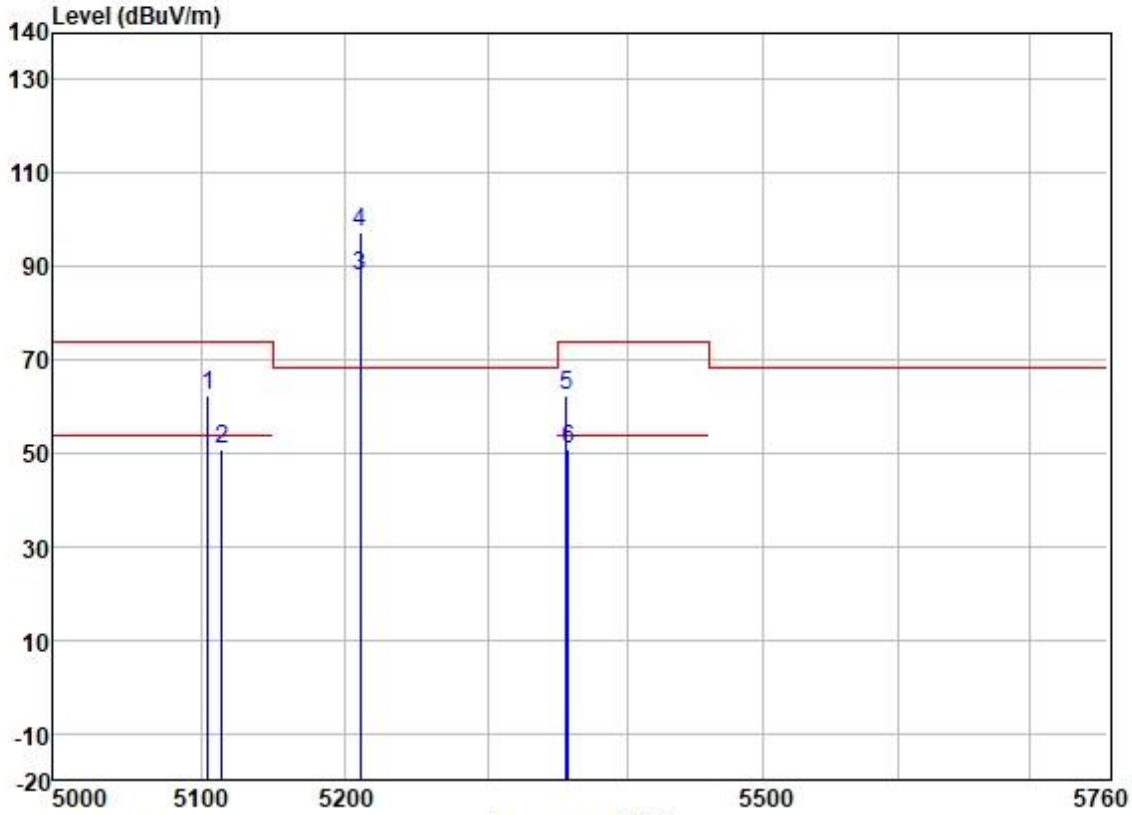
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



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		5230.000	87.80	31.74	5.70	36.87	88.37	------	------	VERTICAL	Average
2	*	5230.000	96.63	31.74	5.70	36.87	97.20	68.20	29.00	VERTICAL	Peak
3		5350.020	49.54	31.77	6.05	36.88	50.48	54.00	-3.52	VERTICAL	Average
4		5350.020	60.95	31.77	6.05	36.88	61.89	74.00	-12.11	VERTICAL	Peak
5		5352.208	49.74	31.77	6.05	36.88	50.68	54.00	-3.32	VERTICAL	Average
6		5354.480	62.16	31.78	6.03	36.88	63.09	74.00	-10.91	VERTICAL	Peak

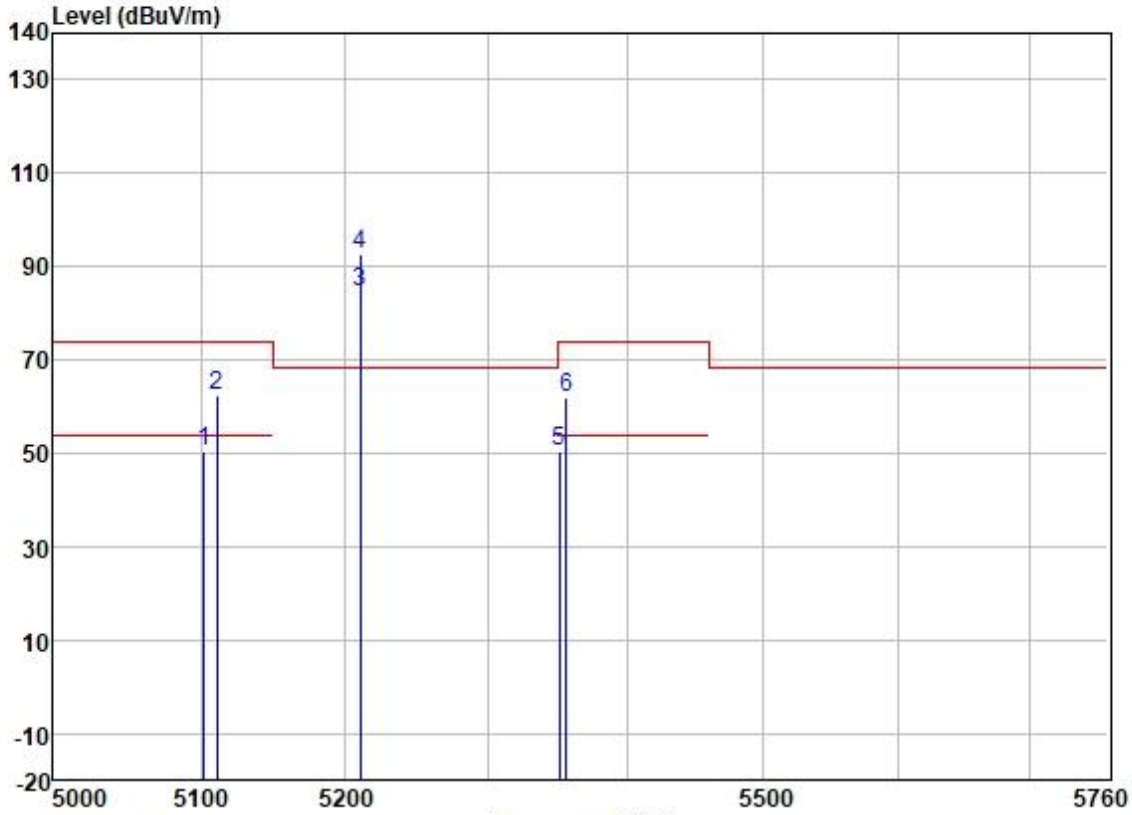
Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



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		5104.820	61.74	31.72	5.65	36.86	62.25	74.00	-11.75	HORIZONTAL	Peak
2		5114.475	50.22	31.72	5.64	36.86	50.72	54.00	-3.28	HORIZONTAL	Average
3		5210.000	87.62	31.74	5.65	36.87	88.14	------	------	HORIZONTAL	Average
4	*	5210.000	96.81	31.74	5.65	36.87	97.33	68.20	29.13	HORIZONTAL	Peak
5		5356.537	61.23	31.78	6.03	36.88	62.16	74.00	-11.84	HORIZONTAL	Peak
6		5357.868	49.71	31.78	6.03	36.88	50.64	54.00	-3.36	HORIZONTAL	Average

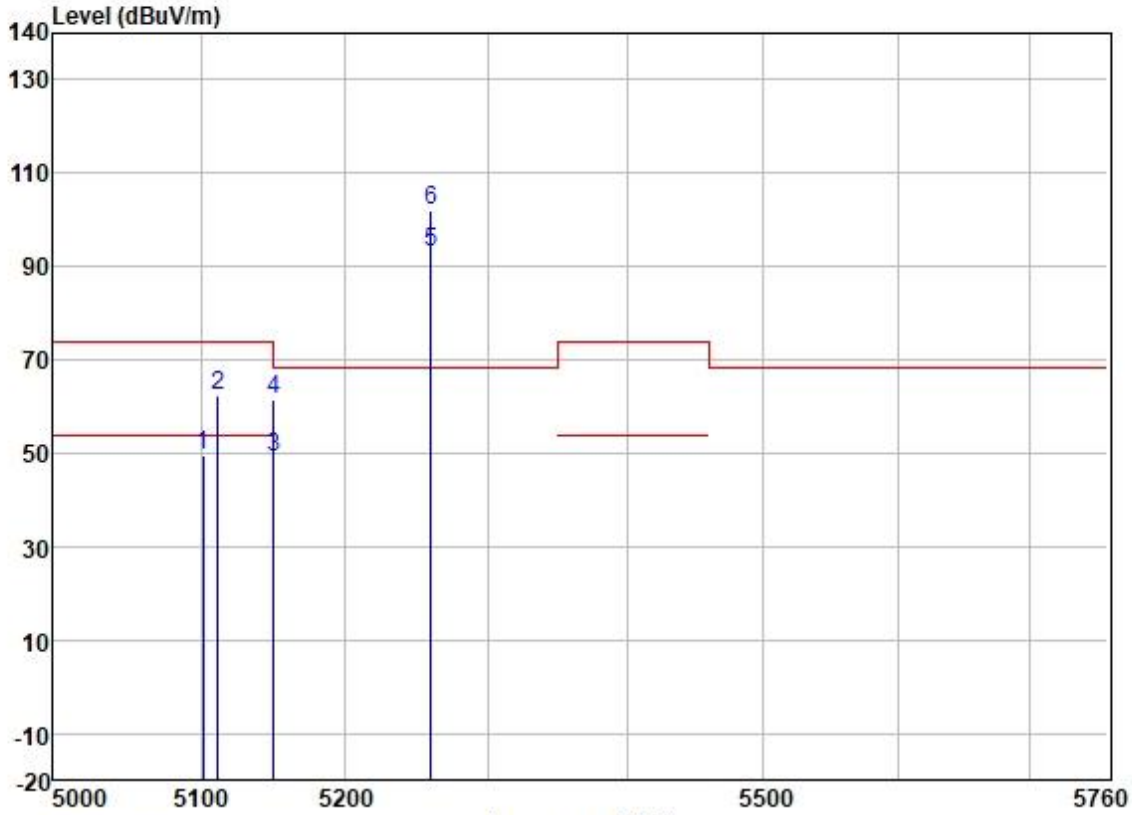
Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



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		5102.283	49.98	31.72	5.65	36.86	50.49	54.00	-3.51	VERTICAL	Average
2		5110.916	61.85	31.72	5.65	36.86	62.36	74.00	-11.64	VERTICAL	Peak
3		5210.000	84.00	31.74	5.65	36.87	84.52	------	------	VERTICAL	Average
4	*	5210.000	92.30	31.74	5.65	36.87	92.82	68.20	24.62	VERTICAL	Peak
5		5351.212	49.58	31.77	6.05	36.88	50.52	54.00	-3.48	VERTICAL	Average
6		5356.004	61.00	31.78	6.03	36.88	61.93	74.00	-12.07	VERTICAL	Peak

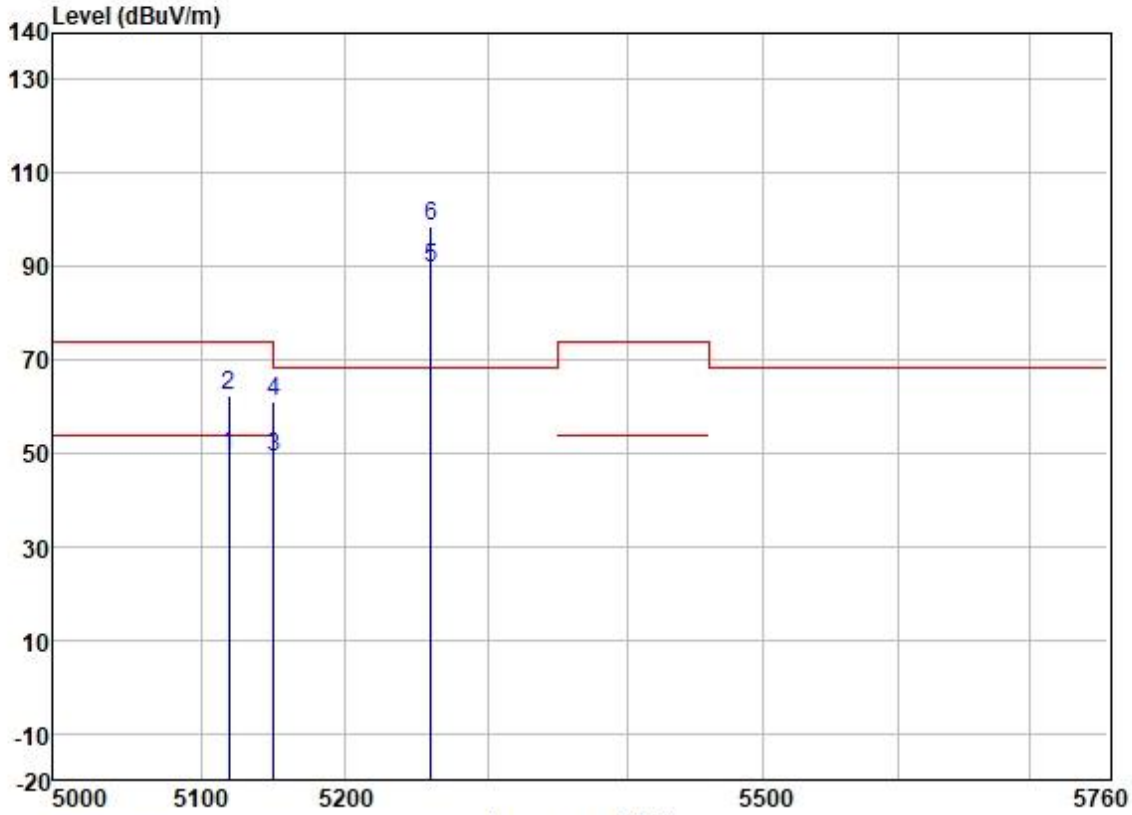
Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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	5101.416	48.95	31.72	5.65	36.86	49.46	54.00	-4.54	HORIZONTAL	Average
2	5111.866	61.84	31.72	5.65	36.86	62.35	74.00	-11.65	HORIZONTAL	Peak
3	5149.980	48.65	31.72	5.62	36.86	49.13	54.00	-4.87	HORIZONTAL	Average
4	5149.980	60.98	31.72	5.62	36.86	61.46	74.00	-12.54	HORIZONTAL	Peak
5	5260.000	92.37	31.75	5.77	36.87	93.02	------	------	HORIZONTAL	Average
6 *	5260.000	101.34	31.75	5.77	36.87	101.99	68.20	33.79	HORIZONTAL	Peak

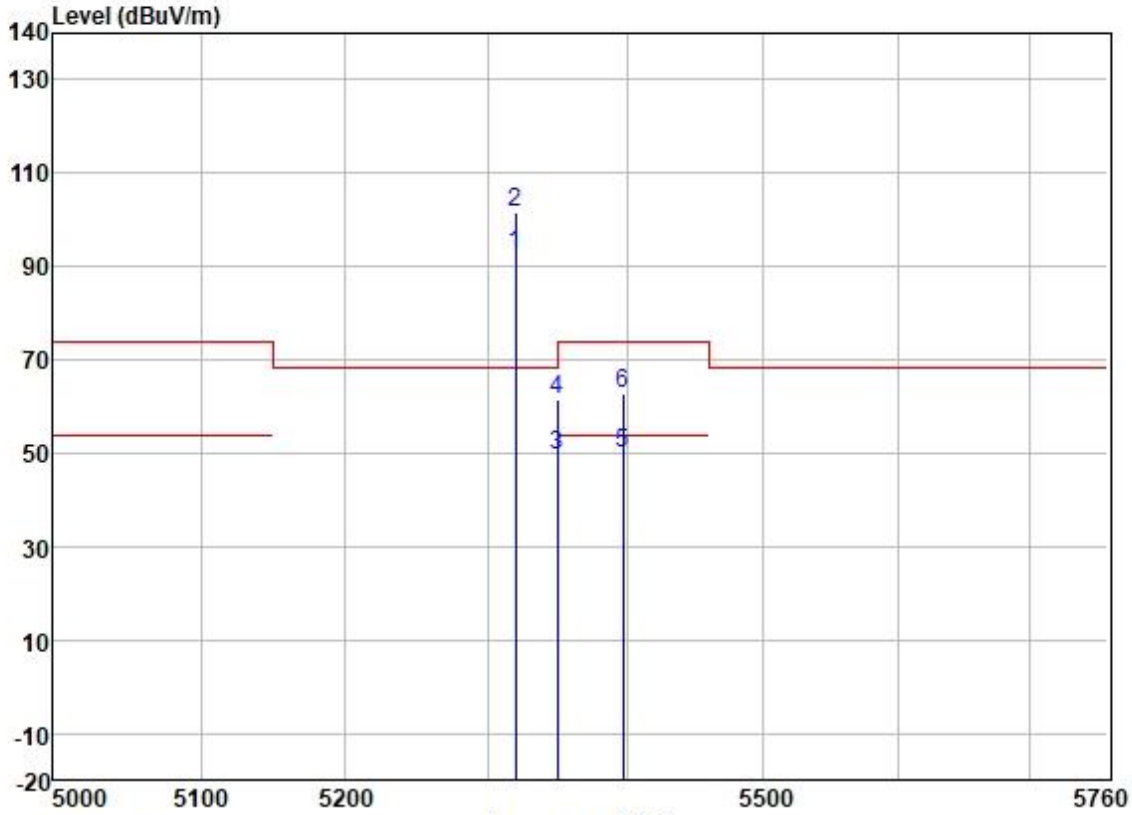
Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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		5118.963	49.01	31.72	5.64	36.86	49.51	54.00	-4.49	VERTICAL	Average
2		5118.963	61.92	31.72	5.64	36.86	62.42	74.00	-11.58	VERTICAL	Peak
3		5149.980	48.61	31.72	5.62	36.86	49.09	54.00	-4.91	VERTICAL	Average
4		5149.980	60.39	31.72	5.62	36.86	60.87	74.00	-13.13	VERTICAL	Peak
5		5260.000	89.09	31.75	5.77	36.87	89.74	------	------	VERTICAL	Average
6	*	5260.000	97.82	31.75	5.77	36.87	98.47	68.20	30.27	VERTICAL	Peak

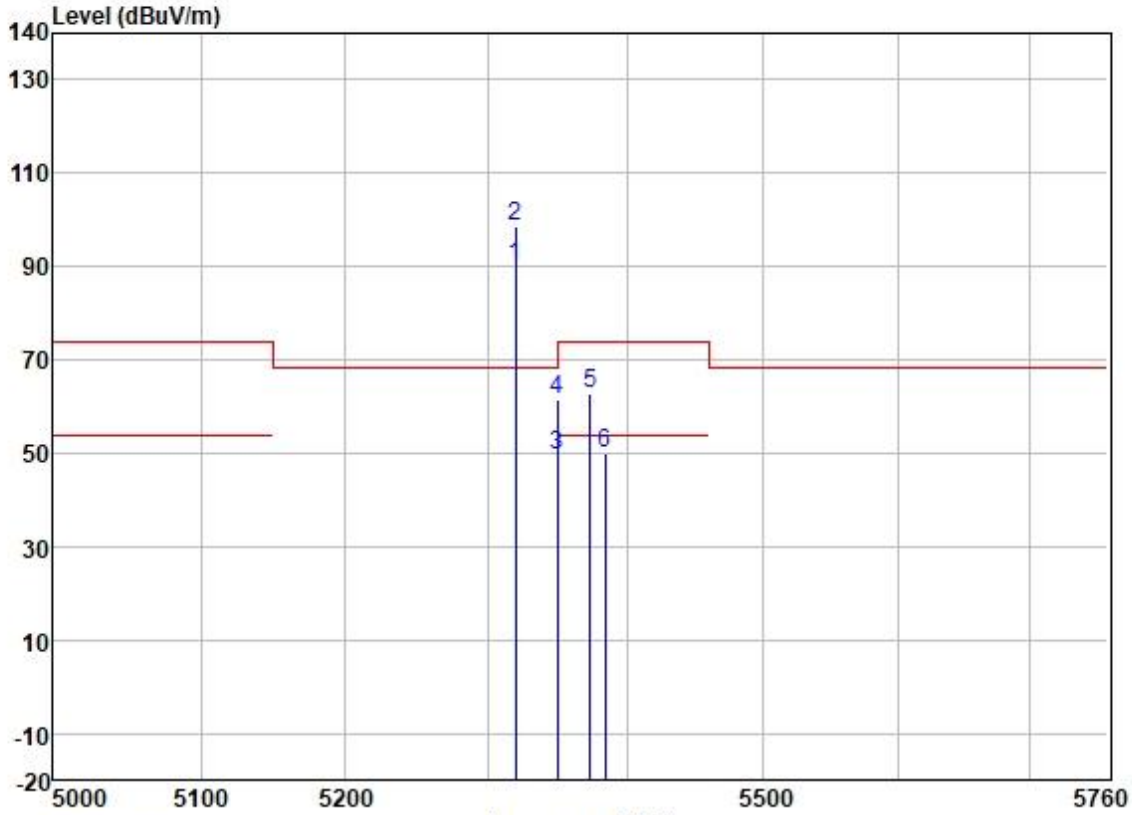
Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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	91.78	31.77	6.08	36.88	92.75	------	------	HORIZONTAL	Average
2	*	5320.000	100.53	31.77	6.08	36.88	101.50	68.20	33.30	HORIZONTAL	Peak
3		5350.020	48.54	31.77	6.05	36.88	49.48	54.00	-4.52	HORIZONTAL	Average
4		5350.020	60.46	31.77	6.05	36.88	61.40	74.00	-12.60	HORIZONTAL	Peak
5		5397.074	48.92	31.78	6.00	36.88	49.82	54.00	-4.18	HORIZONTAL	Average
6		5397.074	62.05	31.78	6.00	36.88	62.95	74.00	-11.05	HORIZONTAL	Peak

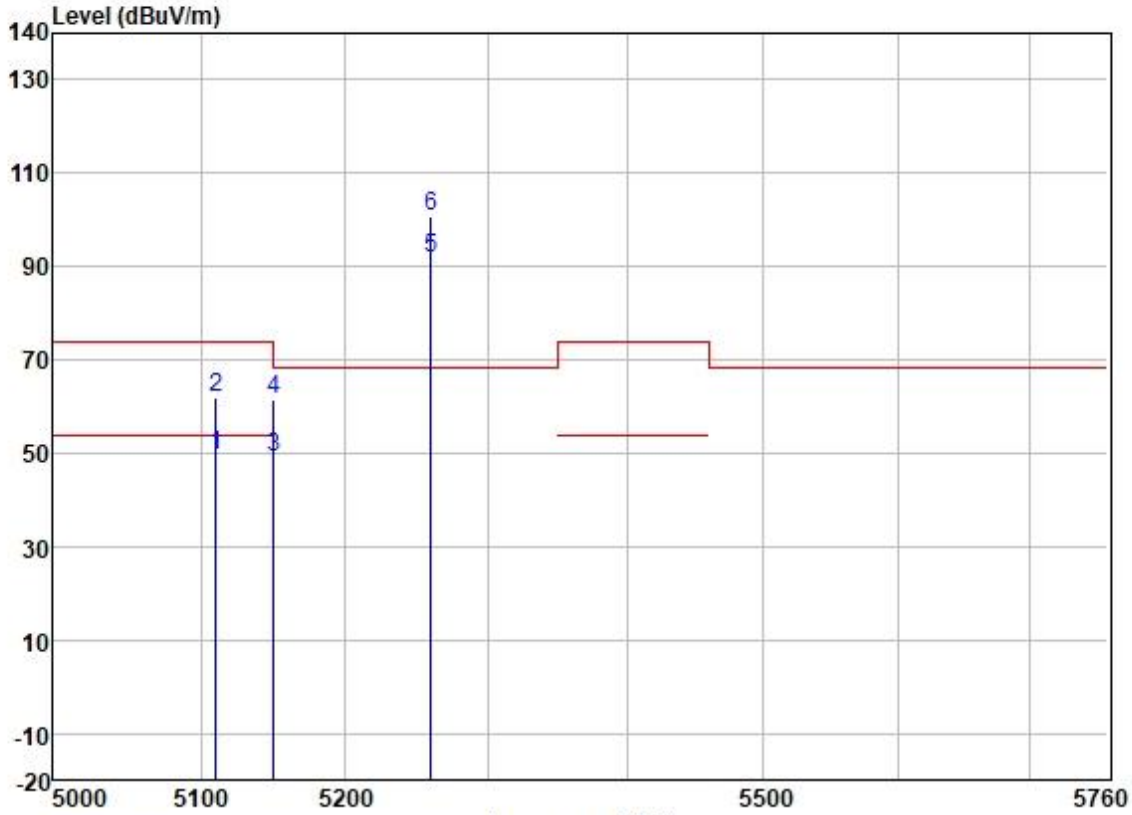
Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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		5320.000	89.01	31.77	6.08	36.88	89.98	------	------	VERTICAL	Average
2	*	5320.000	97.82	31.77	6.08	36.88	98.79	68.20	30.59	VERTICAL	Peak
3		5350.020	48.62	31.77	6.05	36.88	49.56	54.00	-4.44	VERTICAL	Average
4		5350.020	60.48	31.77	6.05	36.88	61.42	74.00	-12.58	VERTICAL	Peak
5		5373.117	61.88	31.78	6.02	36.88	62.80	74.00	-11.20	VERTICAL	Peak
6		5384.176	48.88	31.78	6.02	36.88	49.80	54.00	-4.20	VERTICAL	Average

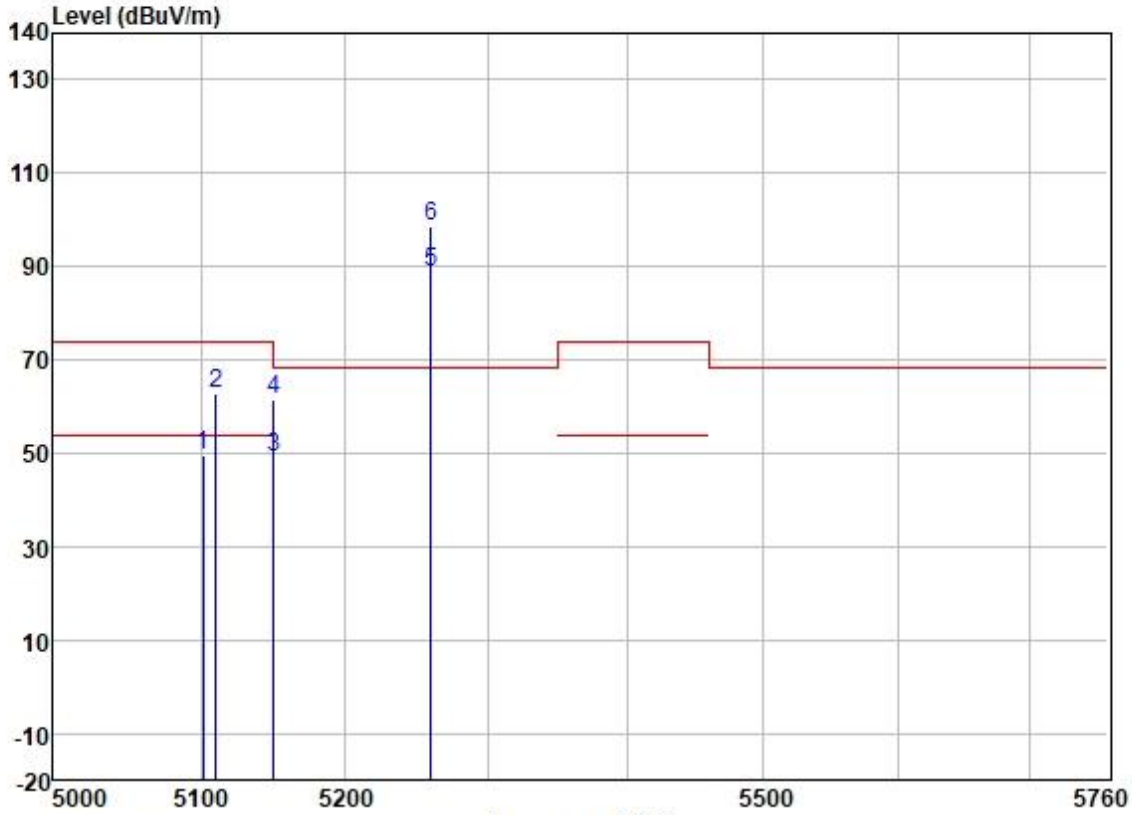
Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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		5110.271	48.94	31.72	5.65	36.86	49.45	54.00	-4.55	HORIZONTAL	Average
2		5110.271	61.28	31.72	5.65	36.86	61.79	74.00	-12.21	HORIZONTAL	Peak
3		5149.980	48.61	31.72	5.62	36.86	49.09	54.00	-4.91	HORIZONTAL	Average
4		5149.980	61.22	31.72	5.62	36.86	61.70	74.00	-12.30	HORIZONTAL	Peak
5		5260.000	91.30	31.75	5.77	36.87	91.95	------	------	HORIZONTAL	Average
6	*	5260.000	100.26	31.75	5.77	36.87	100.91	68.20	32.71	HORIZONTAL	Peak

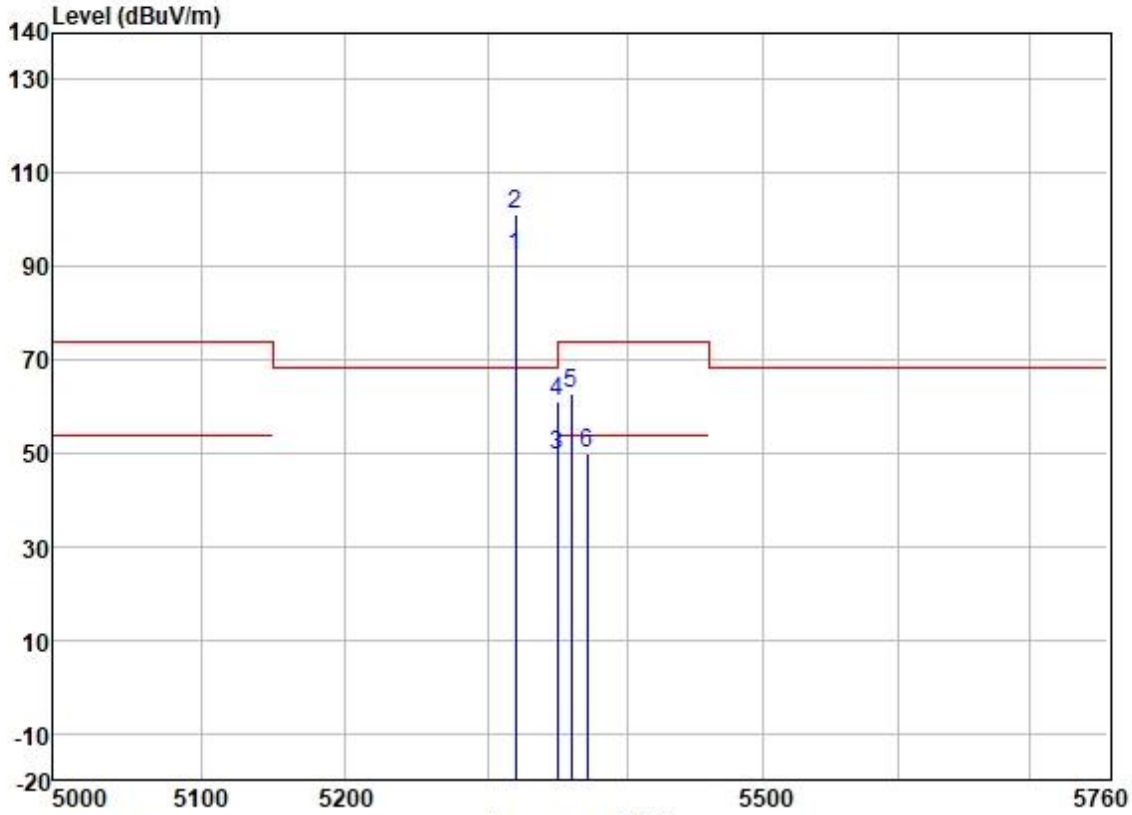
Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	5101.238	49.03	31.72	5.65	36.86	49.54	54.00	-4.46	VERTICAL	Average
2	5110.448	62.19	31.72	5.65	36.86	62.70	74.00	-11.30	VERTICAL	Peak
3	5149.980	48.62	31.72	5.62	36.86	49.10	54.00	-4.90	VERTICAL	Average
4	5149.980	61.16	31.72	5.62	36.86	61.64	74.00	-12.36	VERTICAL	Peak
5	5260.000	88.17	31.75	5.77	36.87	88.82	------	------	VERTICAL	Average
6 *	5260.000	98.07	31.75	5.77	36.87	98.72	68.20	30.52	VERTICAL	Peak

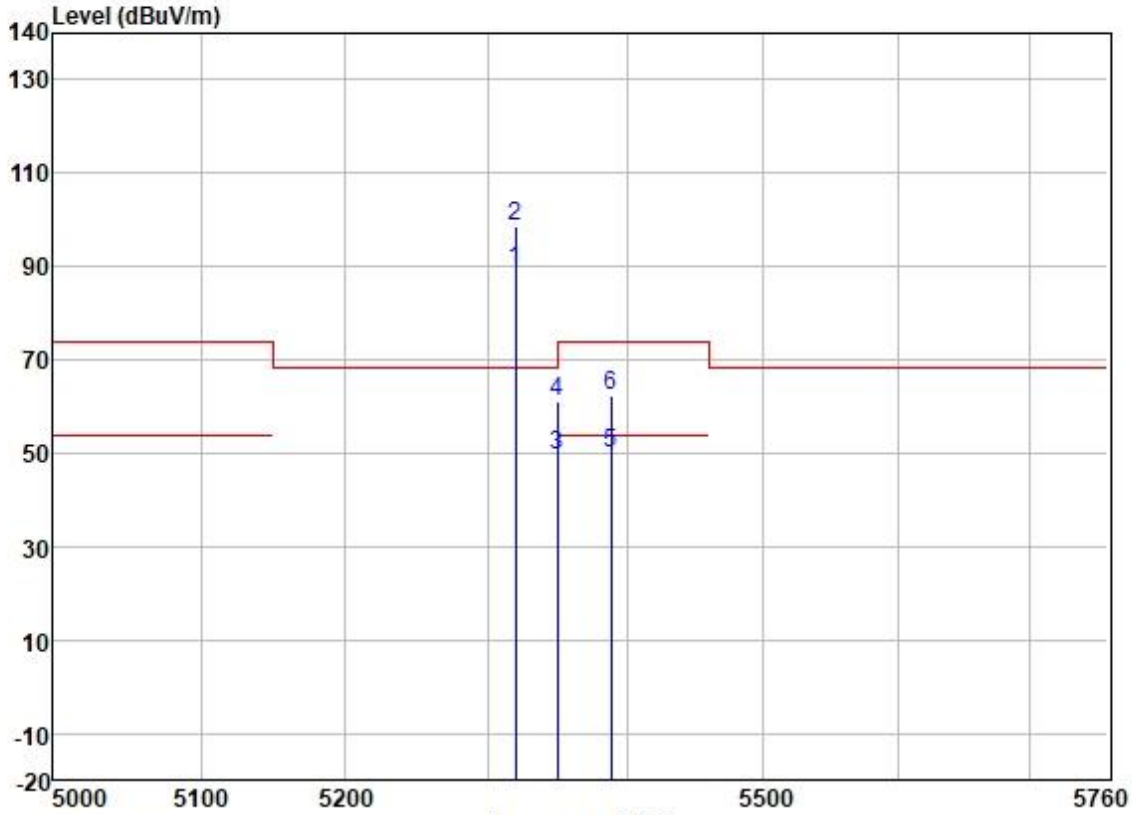
Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	91.22	31.77	6.08	36.88	92.19	------	------	HORIZONTAL	Average
2	*	5320.000	100.03	31.77	6.08	36.88	101.00	68.20	32.80	HORIZONTAL	Peak
3		5350.020	48.62	31.77	6.05	36.88	49.56	54.00	-4.44	HORIZONTAL	Average
4		5350.020	60.17	31.77	6.05	36.88	61.11	74.00	-12.89	HORIZONTAL	Peak
5		5359.775	61.80	31.78	6.03	36.88	62.73	74.00	-11.27	HORIZONTAL	Peak
6		5371.209	48.87	31.78	6.02	36.88	49.79	54.00	-4.21	HORIZONTAL	Average

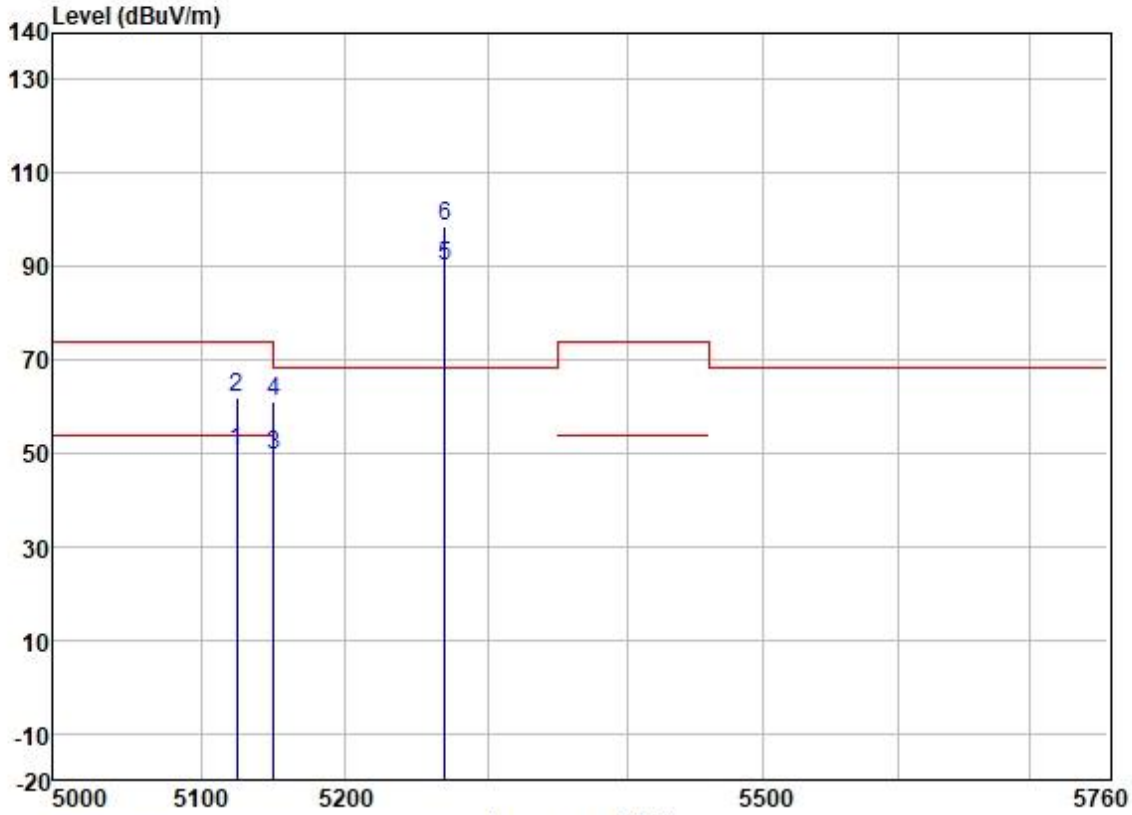
Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	88.41	31.77	6.08	36.88	89.38	------	------	VERTICAL	Average
2	*	5320.000	97.72	31.77	6.08	36.88	98.69	68.20	30.49	VERTICAL	Peak
3		5350.020	48.53	31.77	6.05	36.88	49.47	54.00	-4.53	VERTICAL	Average
4		5350.020	60.18	31.77	6.05	36.88	61.12	74.00	-12.88	VERTICAL	Peak
5		5388.808	48.90	31.78	6.00	36.88	49.80	54.00	-4.20	VERTICAL	Average
6		5388.808	61.45	31.78	6.00	36.88	62.35	74.00	-11.65	VERTICAL	Peak

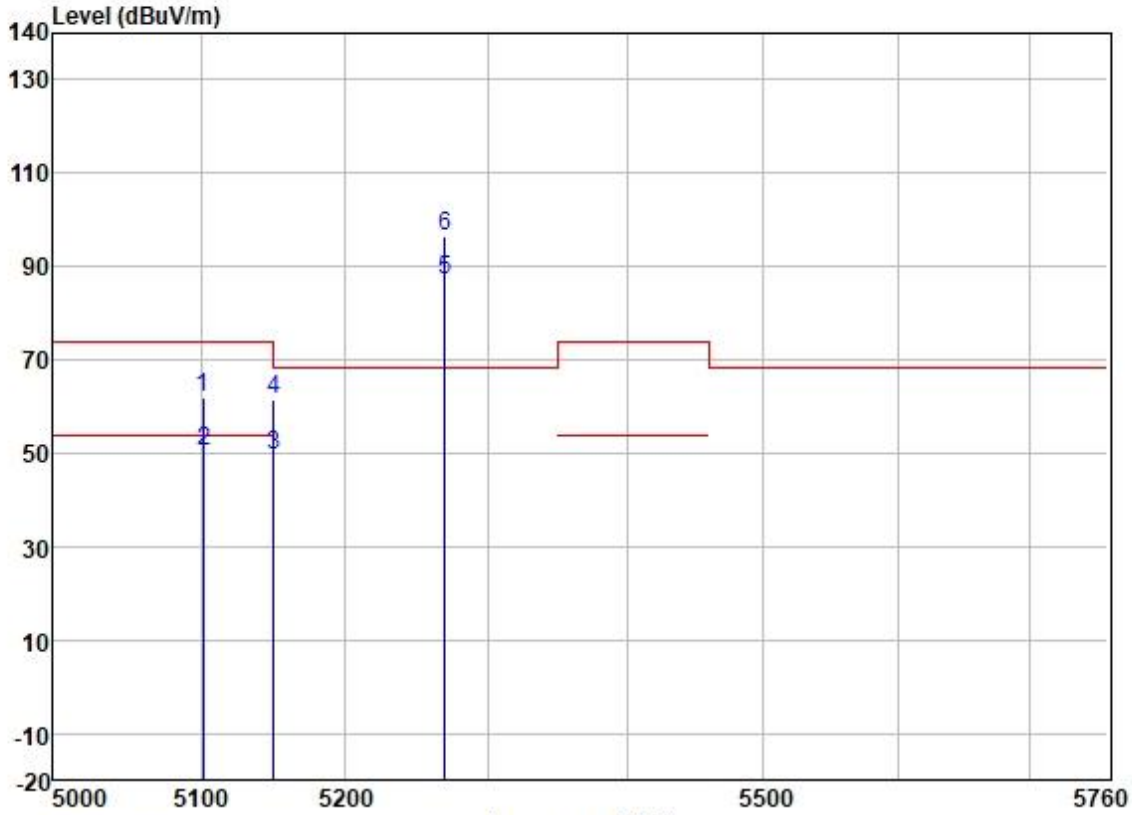
Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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		5124.778	49.83	31.72	5.64	36.86	50.33	54.00	-3.67	HORIZONTAL	Average
2		5124.778	61.59	31.72	5.64	36.86	62.09	74.00	-11.91	HORIZONTAL	Peak
3		5149.980	49.21	31.72	5.62	36.86	49.69	54.00	-4.31	HORIZONTAL	Average
4		5149.980	60.49	31.72	5.62	36.86	60.97	74.00	-13.03	HORIZONTAL	Peak
5		5270.000	89.56	31.75	5.80	36.87	90.24	------	------	HORIZONTAL	Average
6	*	5270.000	98.14	31.75	5.80	36.87	98.82	68.20	30.62	HORIZONTAL	Peak

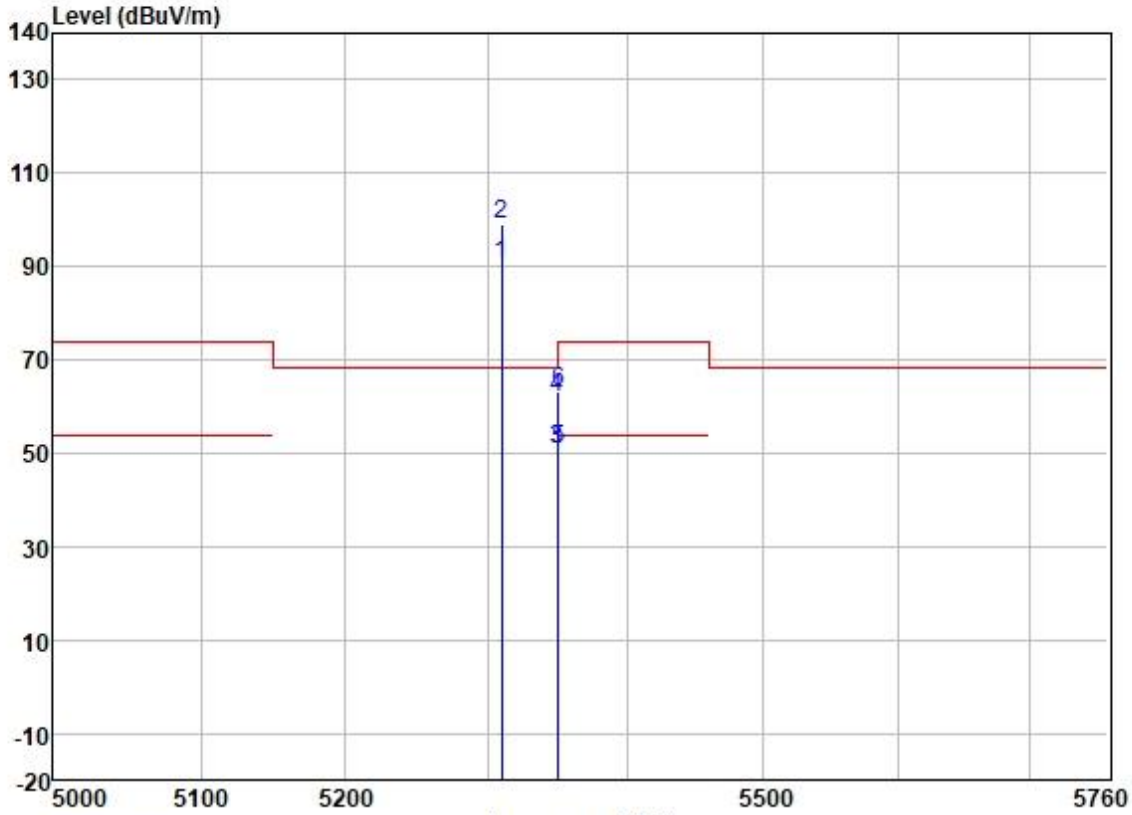
Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	5101.766	61.40	31.72	5.65	36.86	61.91	74.00	-12.09	VERTICAL	Peak
2	5102.158	49.74	31.72	5.65	36.86	50.25	54.00	-3.75	VERTICAL	Average
3	5149.980	49.12	31.72	5.62	36.86	49.60	54.00	-4.40	VERTICAL	Average
4	5149.980	61.20	31.72	5.62	36.86	61.68	74.00	-12.32	VERTICAL	Peak
5	5270.000	86.50	31.75	5.80	36.87	87.18	------	------	VERTICAL	Average
6 *	5270.000	95.77	31.75	5.80	36.87	96.45	68.20	28.25	VERTICAL	Peak

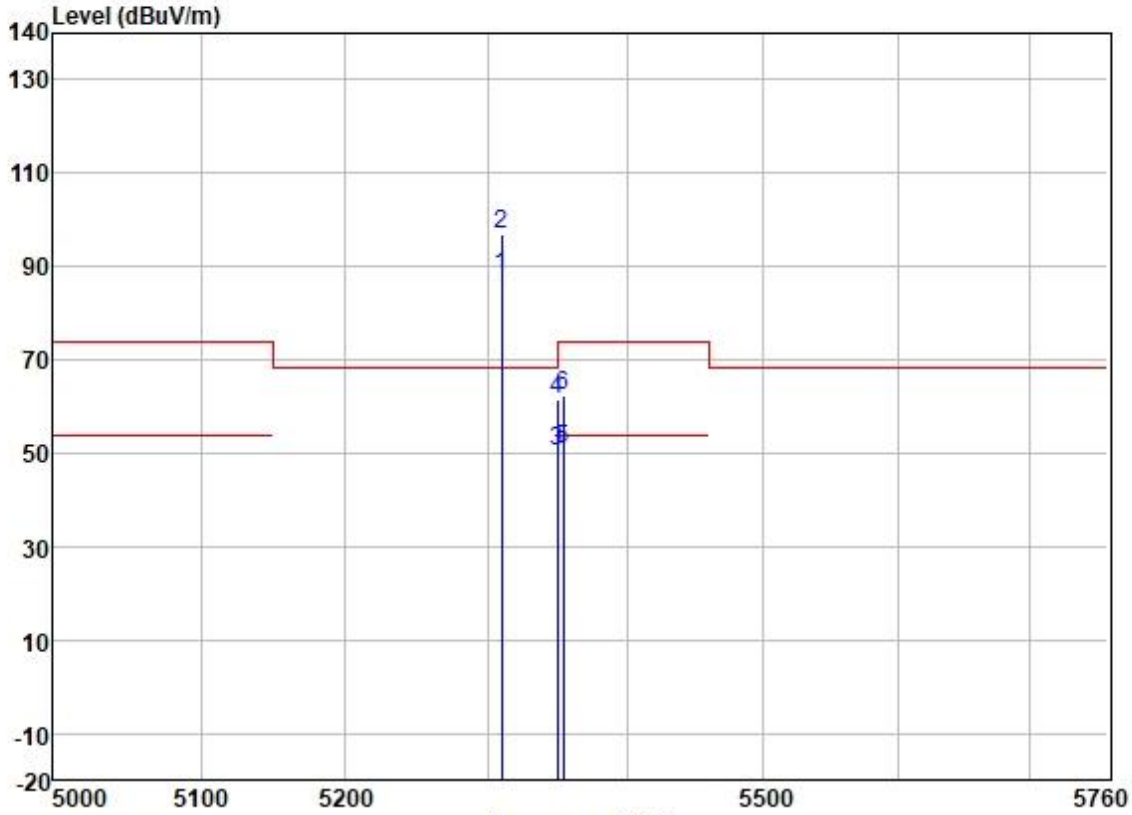
Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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	89.36	31.77	6.08	36.87	90.34	------	------	HORIZONTAL	Average
2	*	5310.000	98.10	31.77	6.08	36.87	99.08	68.20	30.88	HORIZONTAL	Peak
3		5350.020	49.85	31.77	6.05	36.88	50.79	54.00	-3.21	HORIZONTAL	Average
4		5350.020	60.78	31.77	6.05	36.88	61.72	74.00	-12.28	HORIZONTAL	Peak
5		5350.474	49.86	31.77	6.05	36.88	50.80	54.00	-3.20	HORIZONTAL	Average
6		5350.474	62.19	31.77	6.05	36.88	63.13	74.00	-10.87	HORIZONTAL	Peak

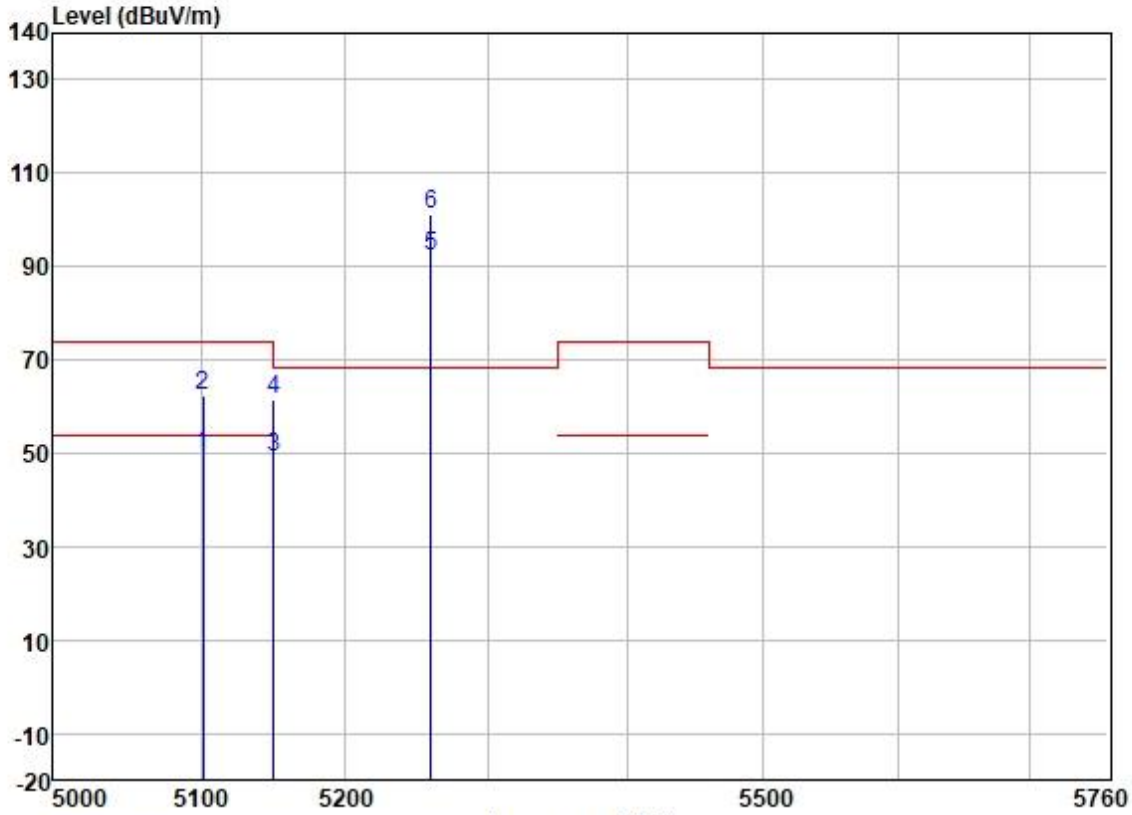
Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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		5310.000	87.00	31.77	6.08	36.87	87.98	------	------	VERTICAL	Average
2	*	5310.000	95.85	31.77	6.08	36.87	96.83	68.20	28.63	VERTICAL	Peak
3		5350.020	49.54	31.77	6.05	36.88	50.48	54.00	-3.52	VERTICAL	Average
4		5350.020	60.69	31.77	6.05	36.88	61.63	74.00	-12.37	VERTICAL	Peak
5		5354.082	49.80	31.77	6.05	36.88	50.74	54.00	-3.26	VERTICAL	Average
6		5354.082	61.55	31.77	6.05	36.88	62.49	74.00	-11.51	VERTICAL	Peak

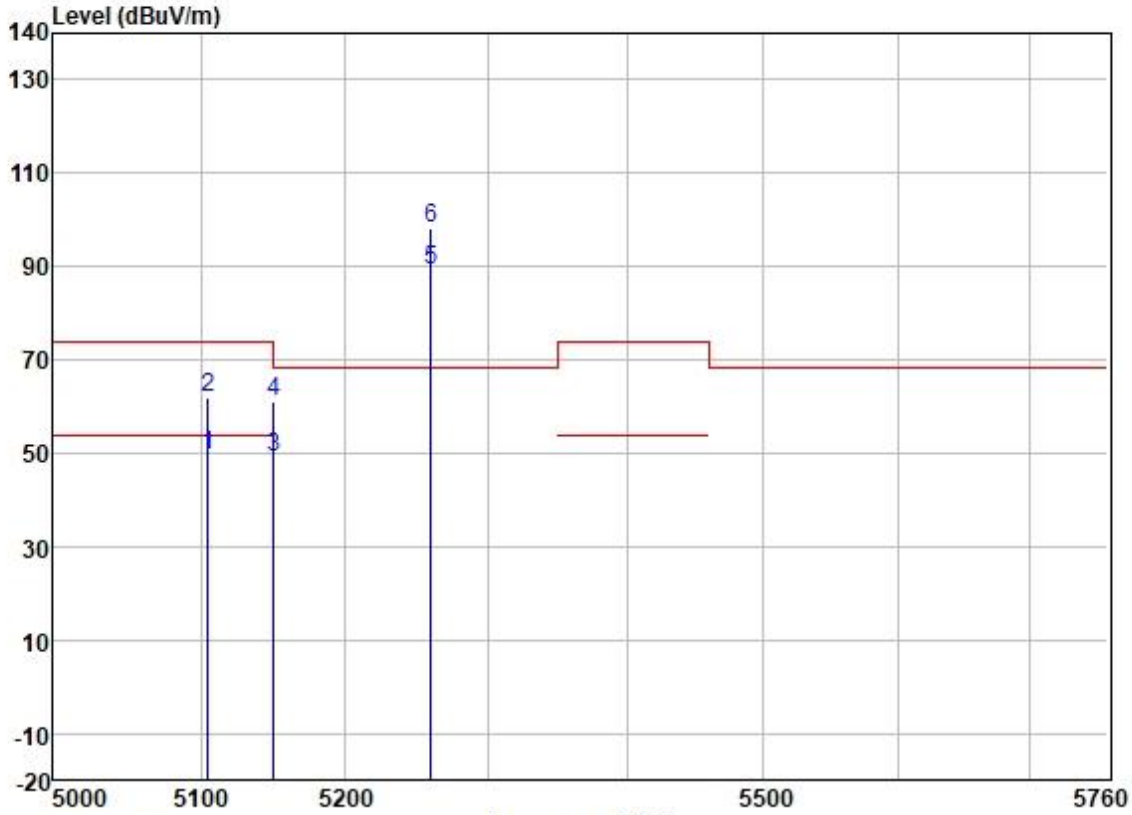
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



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	5101.592	49.04	31.72	5.65	36.86	49.55	54.00	-4.45	HORIZONTAL	Average
2	5101.592	61.76	31.72	5.65	36.86	62.27	74.00	-11.73	HORIZONTAL	Peak
3	5149.980	48.55	31.72	5.62	36.86	49.03	54.00	-4.97	HORIZONTAL	Average
4	5149.980	60.83	31.72	5.62	36.86	61.31	74.00	-12.69	HORIZONTAL	Peak
5	5260.000	91.53	31.75	5.77	36.87	92.18	------	------	HORIZONTAL	Average
6 *	5260.000	100.67	31.75	5.77	36.87	101.32	68.20	33.12	HORIZONTAL	Peak

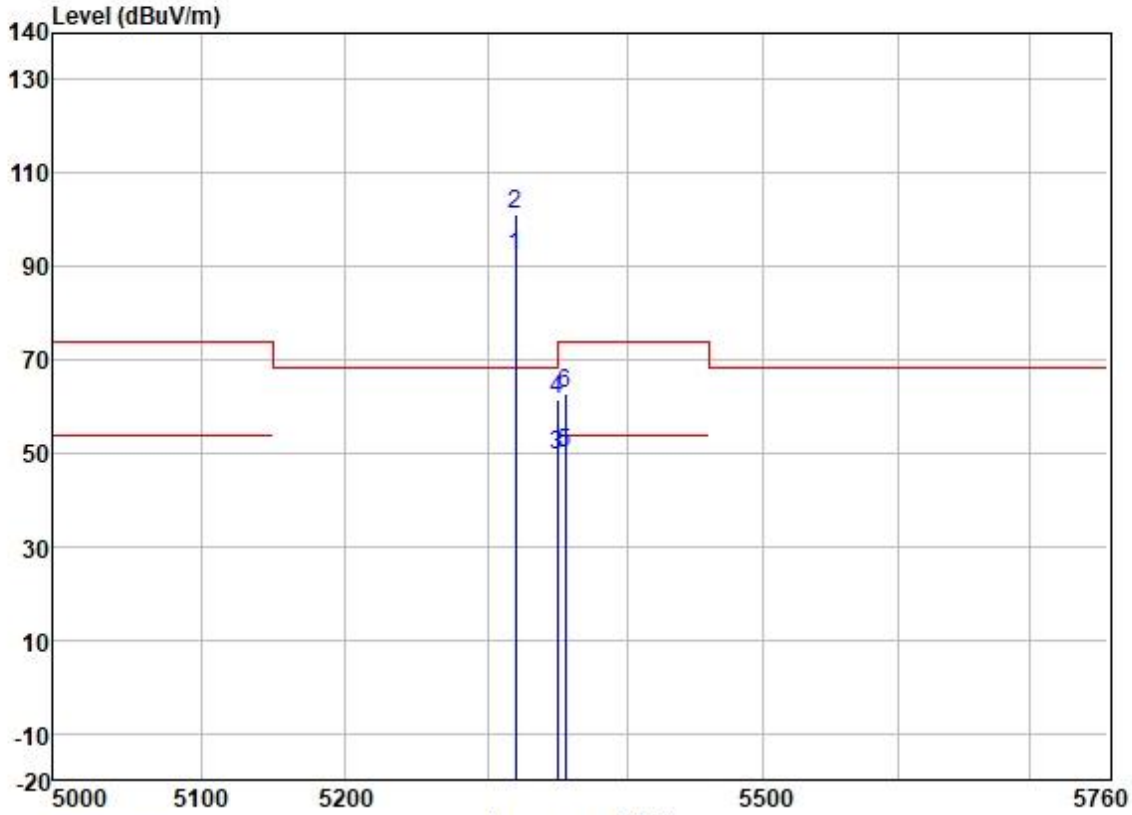
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



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		5104.602	48.98	31.72	5.65	36.86	49.49	54.00	-4.51	VERTICAL	Average
2		5104.602	61.60	31.72	5.65	36.86	62.11	74.00	-11.89	VERTICAL	Peak
3		5149.980	48.60	31.72	5.62	36.86	49.08	54.00	-4.92	VERTICAL	Average
4		5149.980	60.58	31.72	5.62	36.86	61.06	74.00	-12.94	VERTICAL	Peak
5		5260.000	88.46	31.75	5.77	36.87	89.11	------	------	VERTICAL	Average
6	*	5260.000	97.72	31.75	5.77	36.87	98.37	68.20	30.17	VERTICAL	Peak

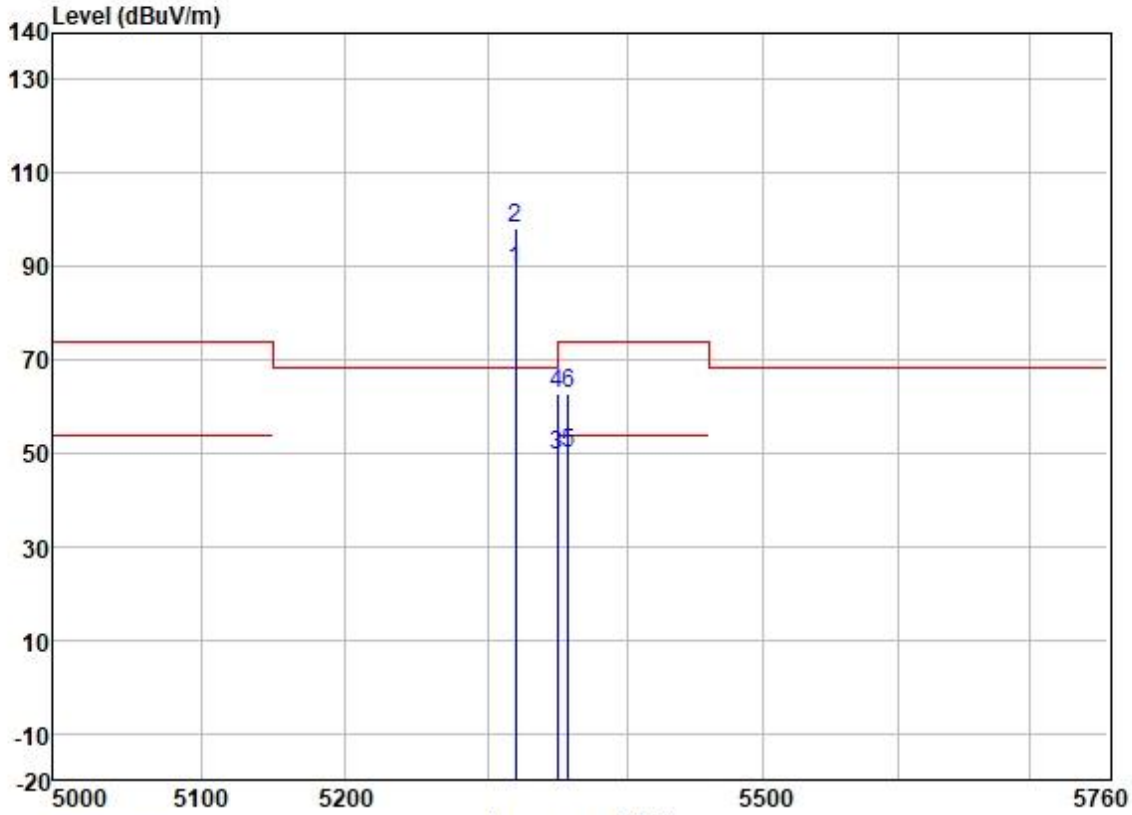
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



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	91.11	31.77	6.08	36.88	92.08	------	------	HORIZONTAL	Average
2	*	5320.000	100.15	31.77	6.08	36.88	101.12	68.20	32.92	HORIZONTAL	Peak
3		5350.020	48.73	31.77	6.05	36.88	49.67	54.00	-4.33	HORIZONTAL	Average
4		5350.020	60.42	31.77	6.05	36.88	61.36	74.00	-12.64	HORIZONTAL	Peak
5		5355.269	48.93	31.78	6.03	36.88	49.86	54.00	-4.14	HORIZONTAL	Average
6		5355.269	61.94	31.78	6.03	36.88	62.87	74.00	-11.13	HORIZONTAL	Peak

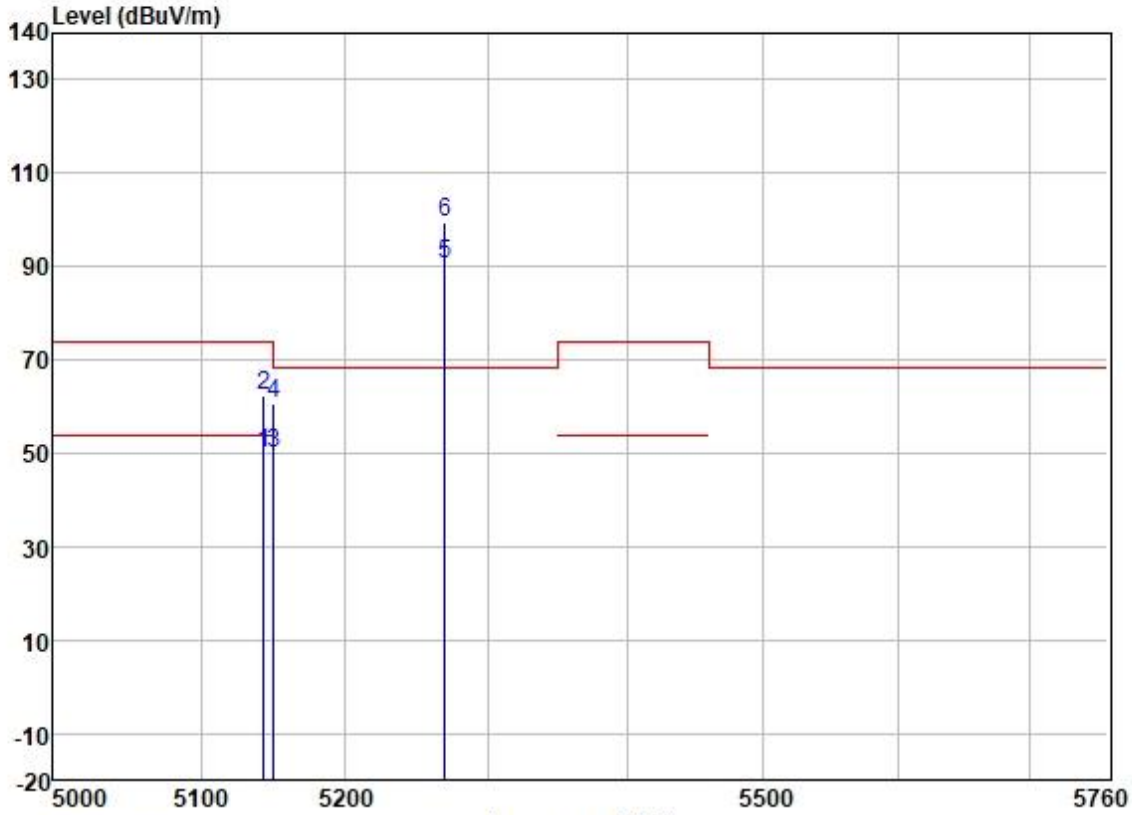
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



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	88.13	31.77	6.08	36.88	89.10	------	------	VERTICAL	Average
2	*	5320.000	97.32	31.77	6.08	36.88	98.29	68.20	30.09	VERTICAL	Peak
3		5350.020	48.66	31.77	6.05	36.88	49.60	54.00	-4.40	VERTICAL	Average
4		5350.020	61.78	31.77	6.05	36.88	62.72	74.00	-11.28	VERTICAL	Peak
5		5357.772	48.91	31.78	6.03	36.88	49.84	54.00	-4.16	VERTICAL	Average
6		5357.772	61.96	31.78	6.03	36.88	62.89	74.00	-11.11	VERTICAL	Peak

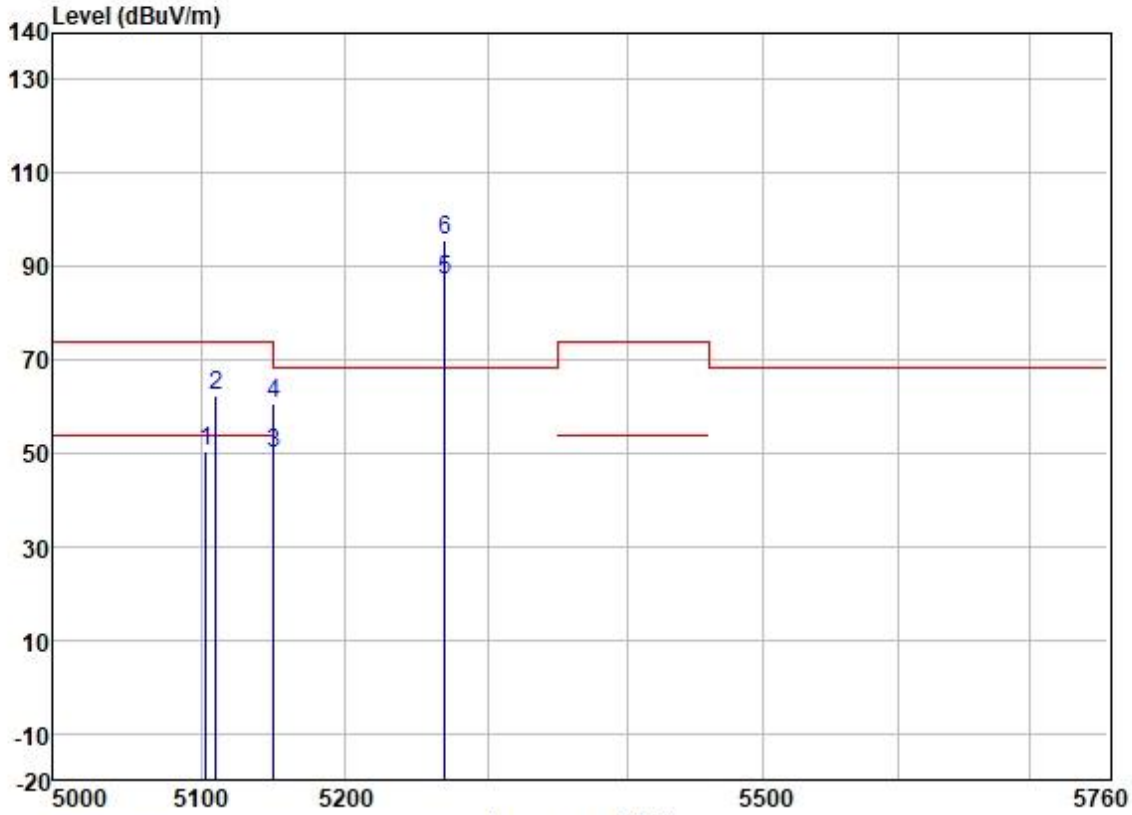
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



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		5143.145	49.69	31.72	5.62	36.86	50.17	54.00	-3.83	HORIZONTAL	Average
2		5143.145	61.93	31.72	5.62	36.86	62.41	74.00	-11.59	HORIZONTAL	Peak
3		5149.980	49.42	31.72	5.62	36.86	49.90	54.00	-4.10	HORIZONTAL	Average
4		5149.980	60.17	31.72	5.62	36.86	60.65	74.00	-13.35	HORIZONTAL	Peak
5		5270.000	89.86	31.75	5.80	36.87	90.54	------	------	HORIZONTAL	Average
6	*	5270.000	98.58	31.75	5.80	36.87	99.26	68.20	31.06	HORIZONTAL	Peak

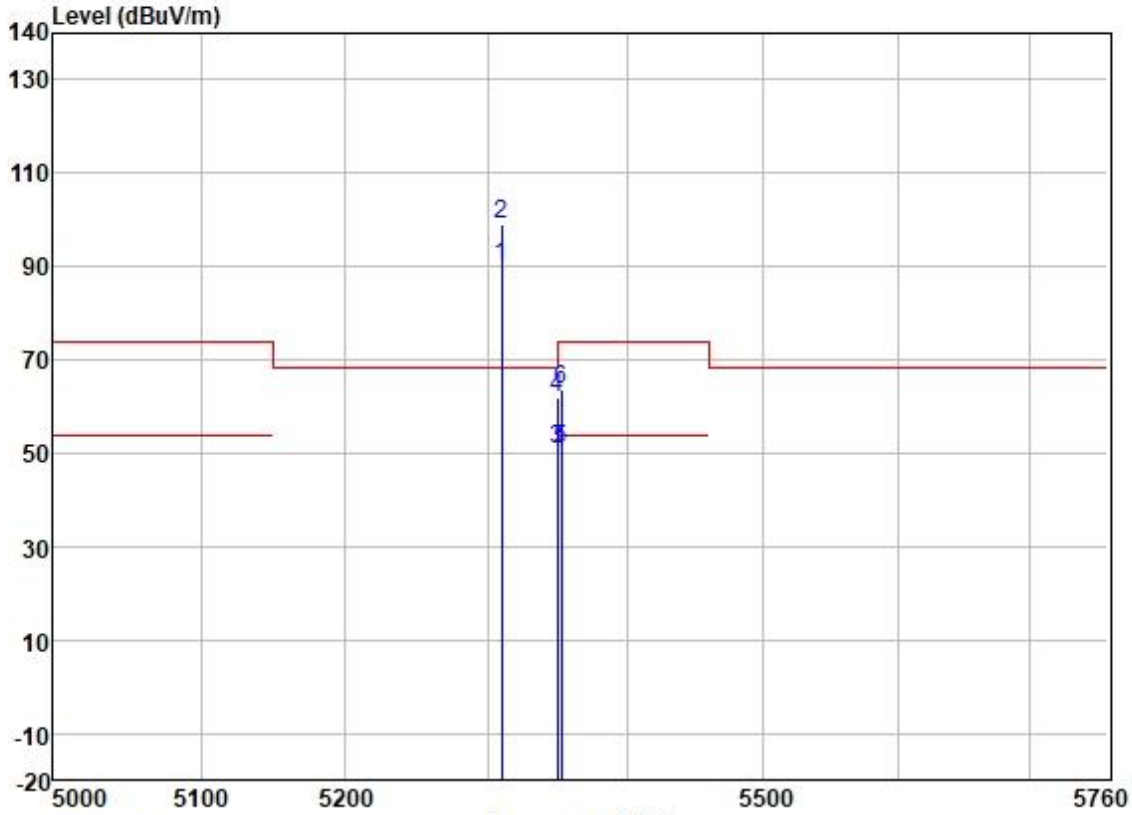
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



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		5103.532	49.73	31.72	5.65	36.86	50.24	54.00	-3.76	VERTICAL	Average
2		5110.604	61.97	31.72	5.65	36.86	62.48	74.00	-11.52	VERTICAL	Peak
3		5149.980	49.46	31.72	5.62	36.86	49.94	54.00	-4.06	VERTICAL	Average
4		5149.980	60.13	31.72	5.62	36.86	60.61	74.00	-13.39	VERTICAL	Peak
5		5270.000	86.39	31.75	5.80	36.87	87.07	------	------	VERTICAL	Average
6	*	5270.000	95.06	31.75	5.80	36.87	95.74	68.20	27.54	VERTICAL	Peak

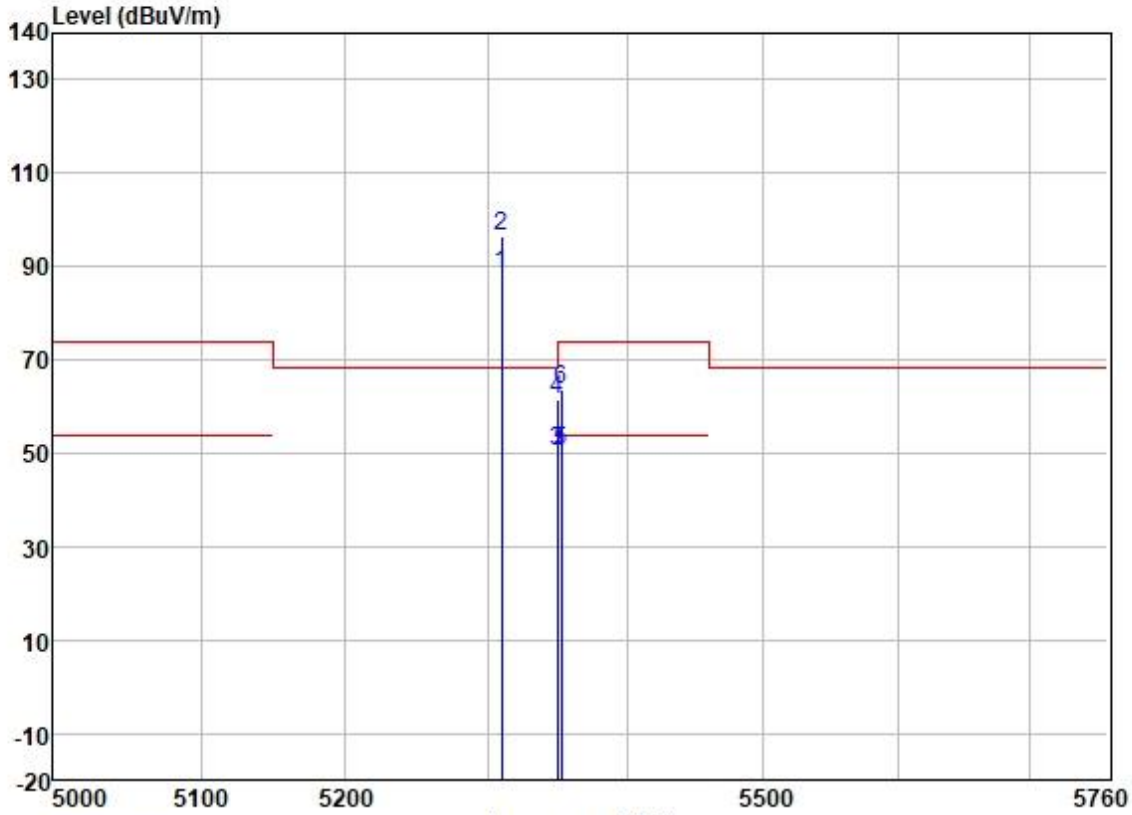
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



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	89.19	31.77	6.08	36.87	90.17	------	------	HORIZONTAL	Average
2	*	5310.000	97.91	31.77	6.08	36.87	98.89	68.20	30.69	HORIZONTAL	Peak
3		5350.020	49.91	31.77	6.05	36.88	50.85	54.00	-3.15	HORIZONTAL	Average
4		5350.020	60.96	31.77	6.05	36.88	61.90	74.00	-12.10	HORIZONTAL	Peak
5		5352.398	49.75	31.77	6.05	36.88	50.69	54.00	-3.31	HORIZONTAL	Average
6		5352.398	62.49	31.77	6.05	36.88	63.43	74.00	-10.57	HORIZONTAL	Peak

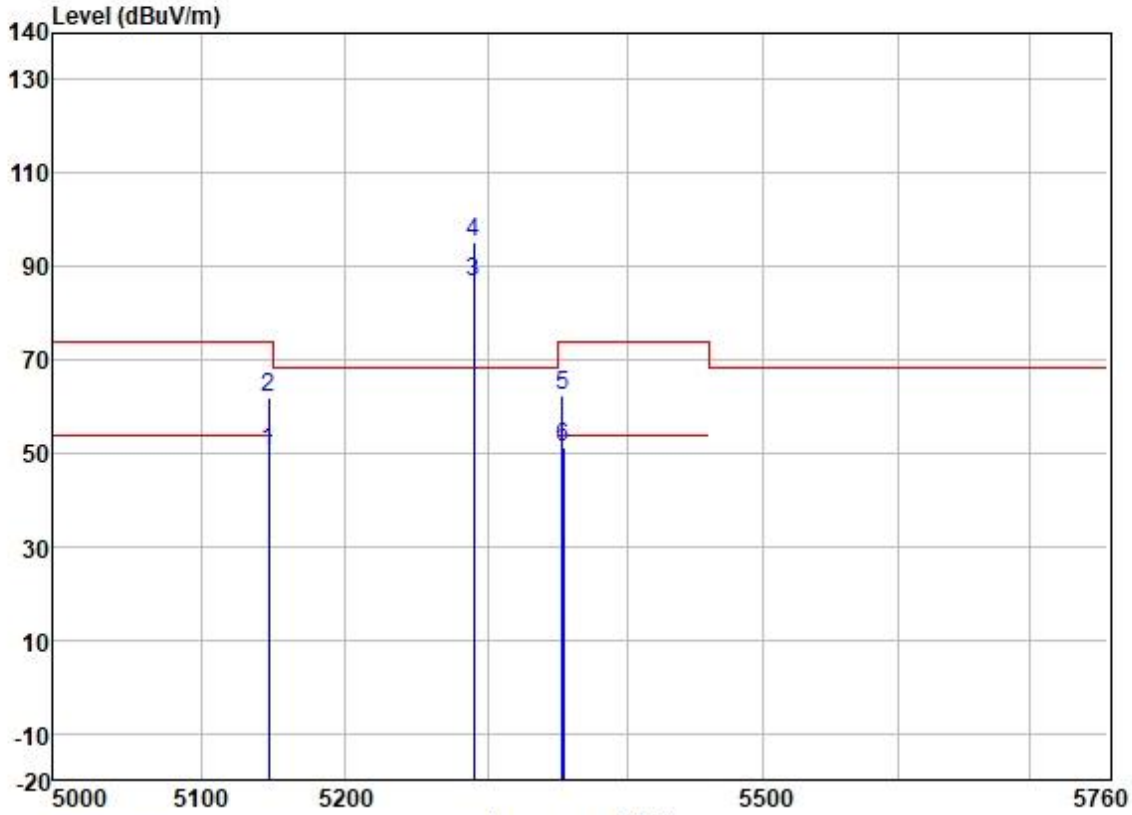
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



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	87.33	31.77	6.08	36.87	88.31	------	------	VERTICAL	Average
2	*	5310.000	95.71	31.77	6.08	36.87	96.69	68.20	28.49	VERTICAL	Peak
3		5350.020	49.35	31.77	6.05	36.88	50.29	54.00	-3.71	VERTICAL	Average
4		5350.020	60.62	31.77	6.05	36.88	61.56	74.00	-12.44	VERTICAL	Peak
5		5352.879	49.66	31.77	6.05	36.88	50.60	54.00	-3.40	VERTICAL	Average
6		5352.879	62.73	31.77	6.05	36.88	63.67	74.00	-10.33	VERTICAL	Peak

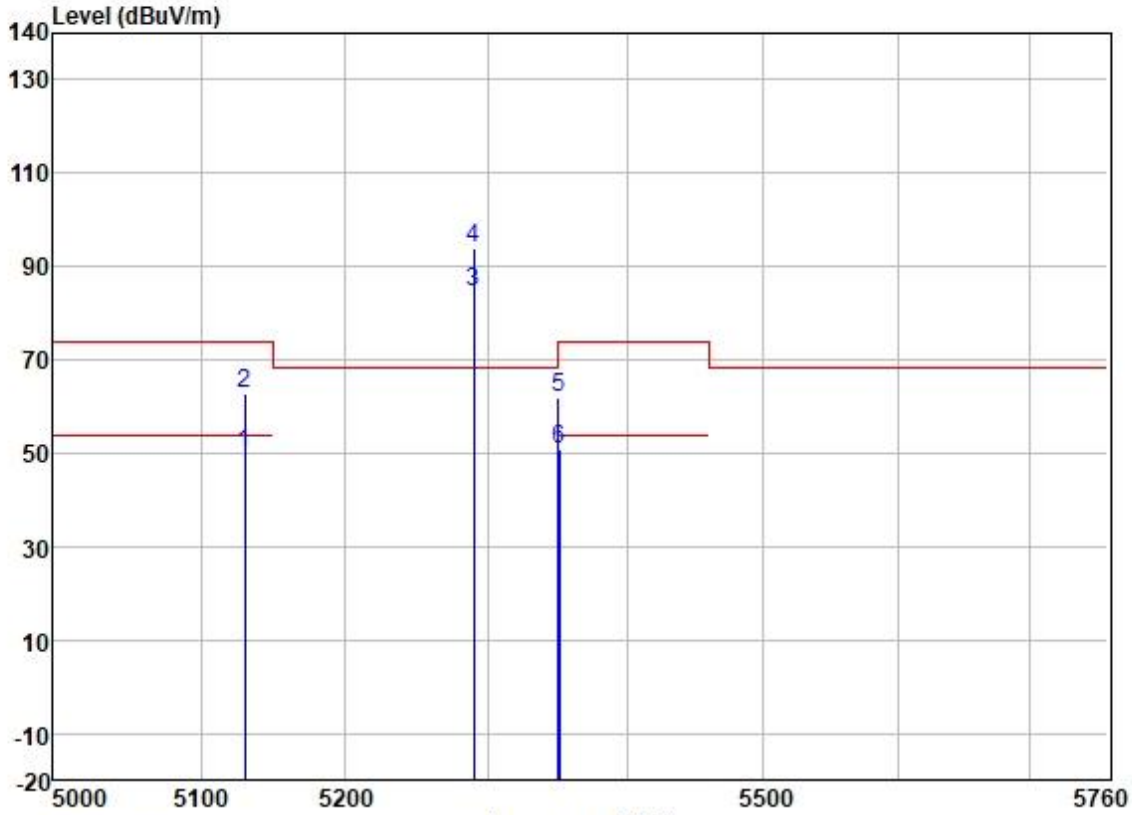
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



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		5146.561	49.83	31.72	5.62	36.86	50.31	54.00	-3.69	HORIZONTAL	Average
2		5146.561	61.48	31.72	5.62	36.86	61.96	74.00	-12.04	HORIZONTAL	Peak
3		5290.000	85.88	31.76	6.00	36.87	86.77	------	------	HORIZONTAL	Average
4	*	5290.000	94.17	31.76	6.00	36.87	95.06	68.20	26.86	HORIZONTAL	Peak
5		5353.594	61.22	31.77	6.05	36.88	62.16	74.00	-11.84	HORIZONTAL	Peak
6		5353.899	50.34	31.77	6.05	36.88	51.28	54.00	-2.72	HORIZONTAL	Average

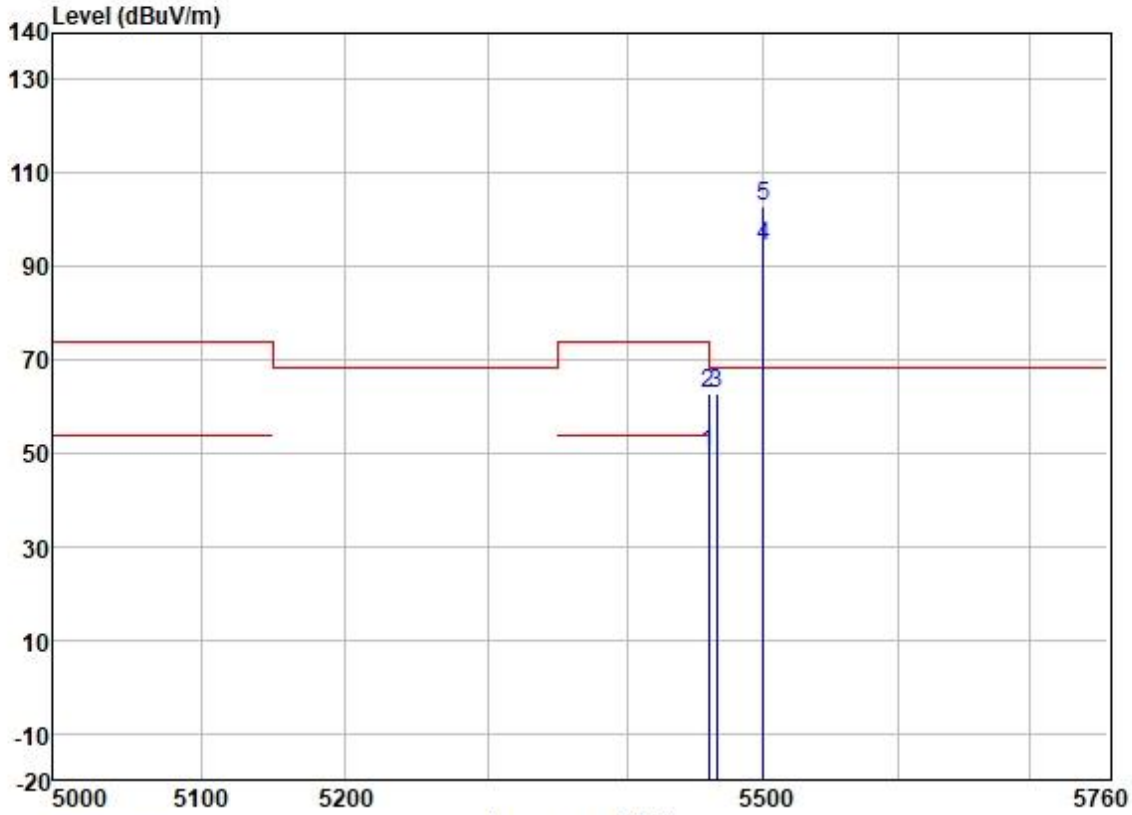
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



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		5129.821	49.66	31.72	5.63	36.86	50.15	54.00	-3.85	VERTICAL	Average
2		5129.821	62.25	31.72	5.63	36.86	62.74	74.00	-11.26	VERTICAL	Peak
3		5290.000	83.62	31.76	6.00	36.87	84.51	------	------	VERTICAL	Average
4	*	5290.000	92.93	31.76	6.00	36.87	93.82	68.20	25.62	VERTICAL	Peak
5		5350.229	60.92	31.77	6.05	36.88	61.86	74.00	-12.14	VERTICAL	Peak
6		5351.146	49.83	31.77	6.05	36.88	50.77	54.00	-3.23	VERTICAL	Average

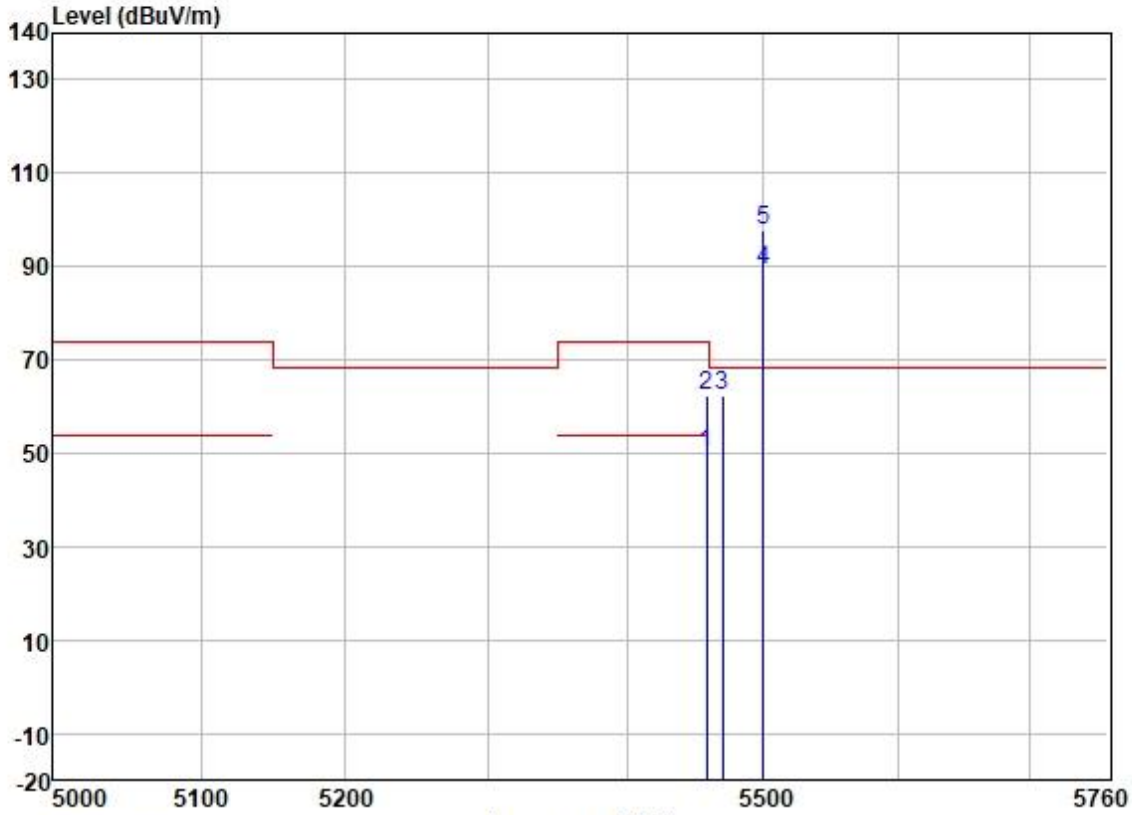
Test Mode: 20; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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		5459.670	48.84	31.79	6.26	36.88	50.01	54.00	-3.99	HORIZONTAL	Average
2		5459.670	61.61	31.79	6.26	36.88	62.78	74.00	-11.22	HORIZONTAL	Peak
3		5465.193	61.65	31.80	6.31	36.88	62.88	68.20	-5.32	HORIZONTAL	Peak
4		5500.000	93.04	31.80	6.40	36.88	94.36	------	------	HORIZONTAL	Average
5	*	5500.000	101.64	31.80	6.40	36.88	102.96	68.20	34.76	HORIZONTAL	Peak

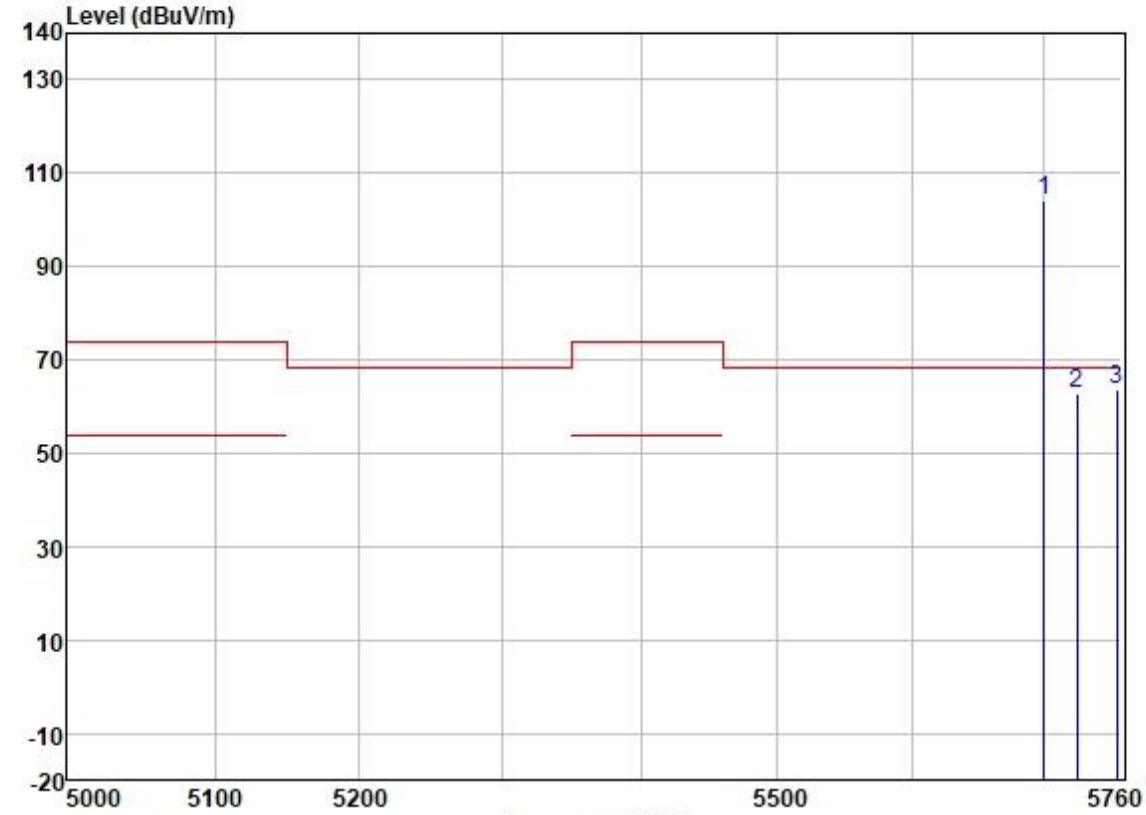
Test Mode: 20; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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		5457.991	48.94	31.79	6.26	36.88	50.11	54.00	-3.89	VERTICAL	Average
2		5457.991	61.31	31.79	6.26	36.88	62.48	74.00	-11.52	VERTICAL	Peak
3		5469.880	61.00	31.80	6.31	36.88	62.23	68.20	-5.97	VERTICAL	Peak
4		5500.000	88.03	31.80	6.40	36.88	89.35	------	------	VERTICAL	Average
5	*	5500.000	96.35	31.80	6.40	36.88	97.67	68.20	29.47	VERTICAL	Peak

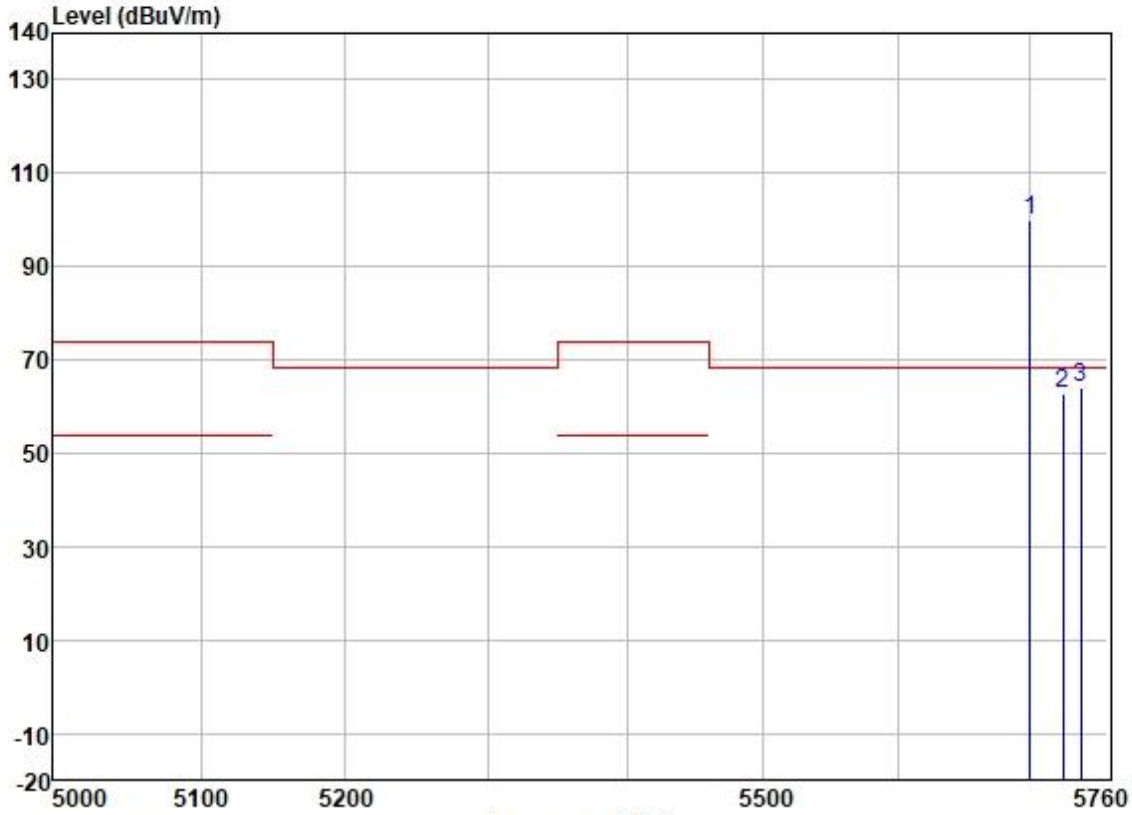
Test Mode: 20; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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	102.44	32.01	6.40	36.89	103.96	68.20	35.76	HORIZONTAL	Peak
2	5725.000	61.16	32.07	6.25	36.89	62.59	68.20	-5.61	HORIZONTAL	Peak
3	5756.042	62.37	32.13	6.15	36.89	63.76	68.20	-4.44	HORIZONTAL	Peak

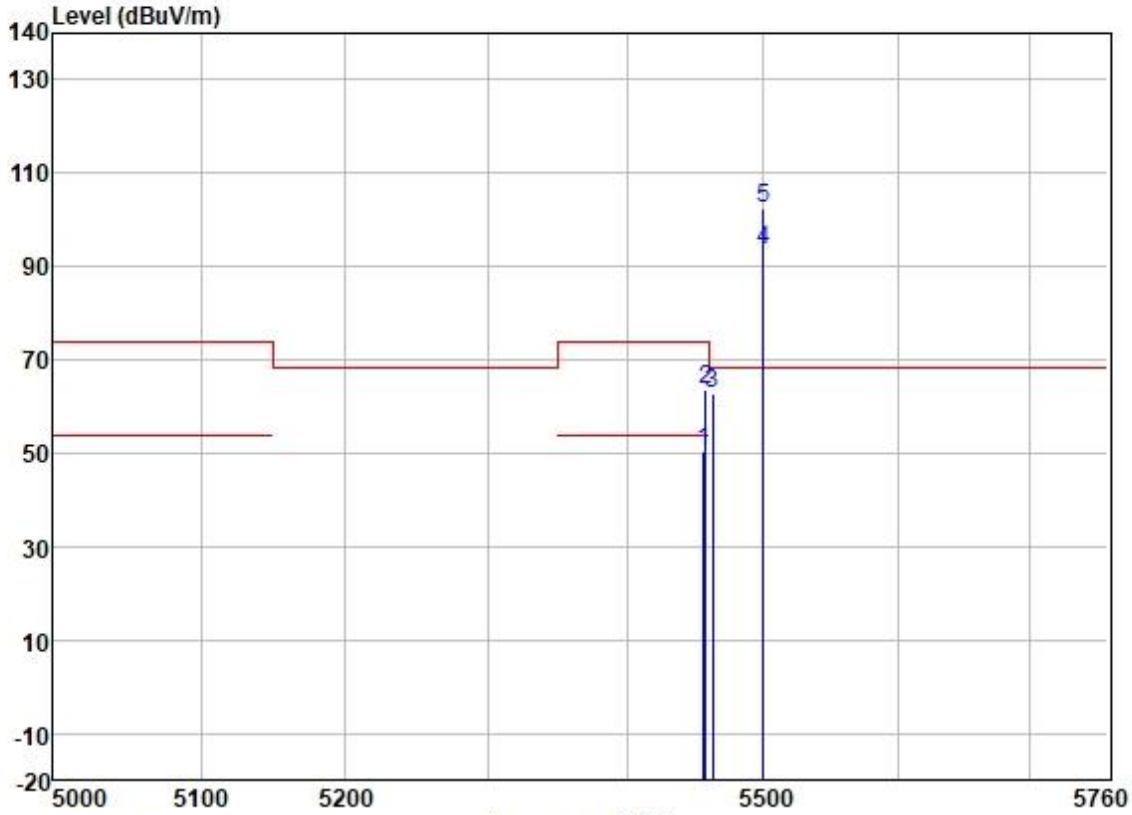
Test Mode: 20; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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	98.22	32.01	6.40	36.89	99.74	68.20	31.54	VERTICAL	Peak
2		5725.000	61.18	32.07	6.25	36.89	62.61	68.20	-5.59	VERTICAL	Peak
3		5738.688	62.52	32.10	6.20	36.89	63.93	68.20	-4.27	VERTICAL	Peak

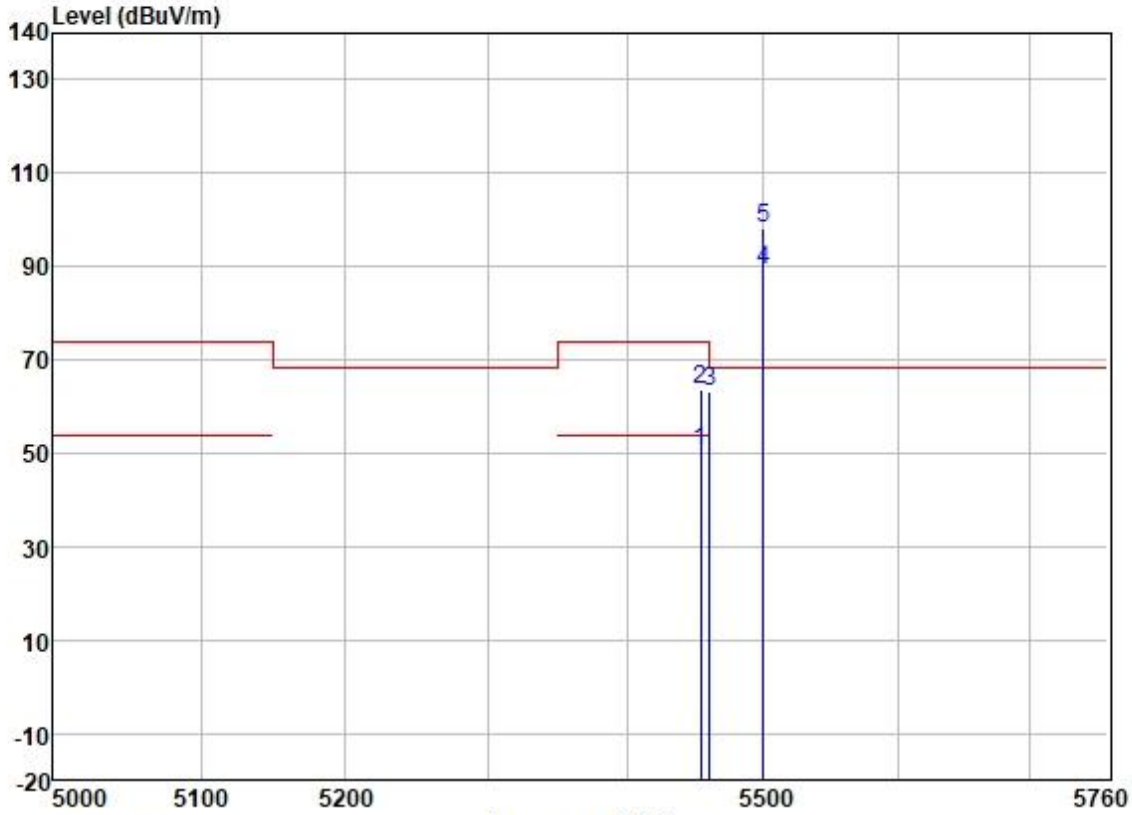
Test Mode: 20; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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		5455.952	49.18	31.79	6.26	36.88	50.35	54.00	-3.65	HORIZONTAL	Average
2		5457.511	62.50	31.79	6.26	36.88	63.67	74.00	-10.33	HORIZONTAL	Peak
3		5462.191	61.76	31.79	6.26	36.88	62.93	68.20	-5.27	HORIZONTAL	Peak
4		5500.000	92.01	31.80	6.40	36.88	93.33	------	------	HORIZONTAL	Average
5	*	5500.000	100.96	31.80	6.40	36.88	102.28	68.20	34.08	HORIZONTAL	Peak

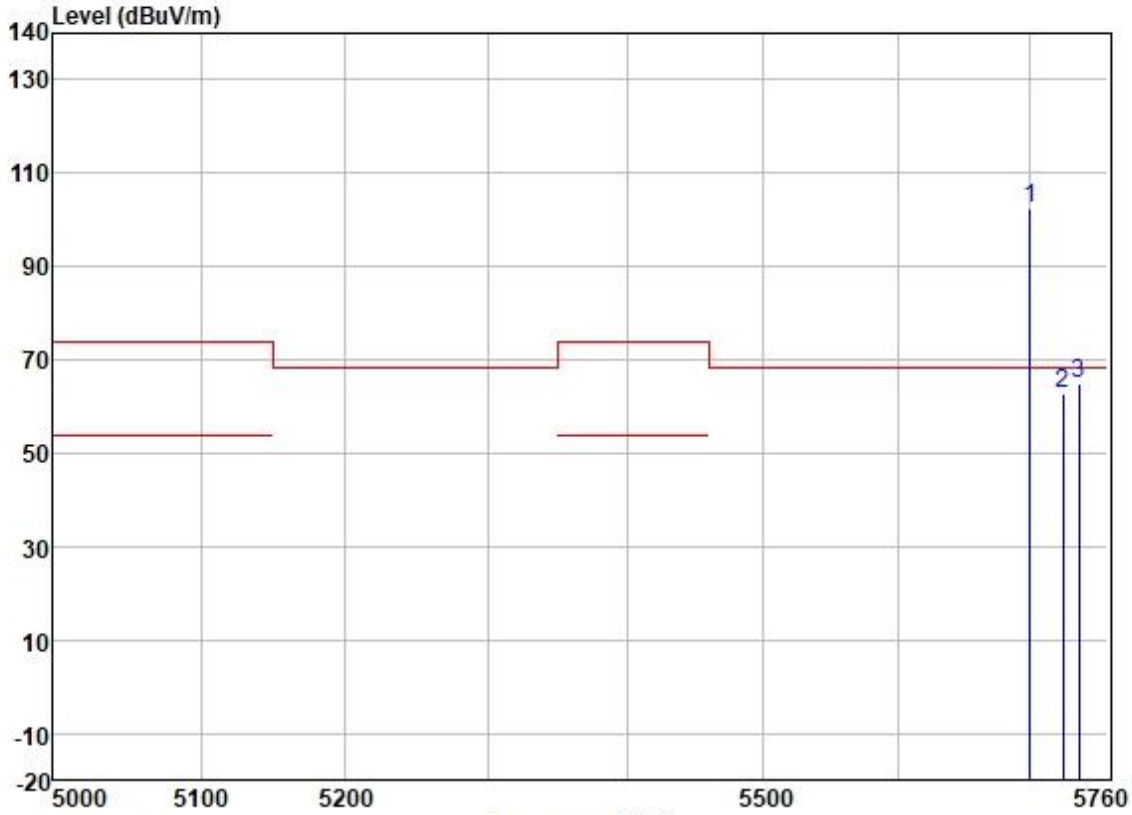
Test Mode: 20; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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		5453.914	49.14	31.79	6.26	36.88	50.31	54.00	-3.69	VERTICAL	Average
2		5453.914	62.47	31.79	6.26	36.88	63.64	74.00	-10.36	VERTICAL	Peak
3		5460.030	61.84	31.79	6.26	36.88	63.01	68.20	-5.19	VERTICAL	Peak
4		5500.000	87.95	31.80	6.40	36.88	89.27	------	------	VERTICAL	Average
5	*	5500.000	96.93	31.80	6.40	36.88	98.25	68.20	30.05	VERTICAL	Peak

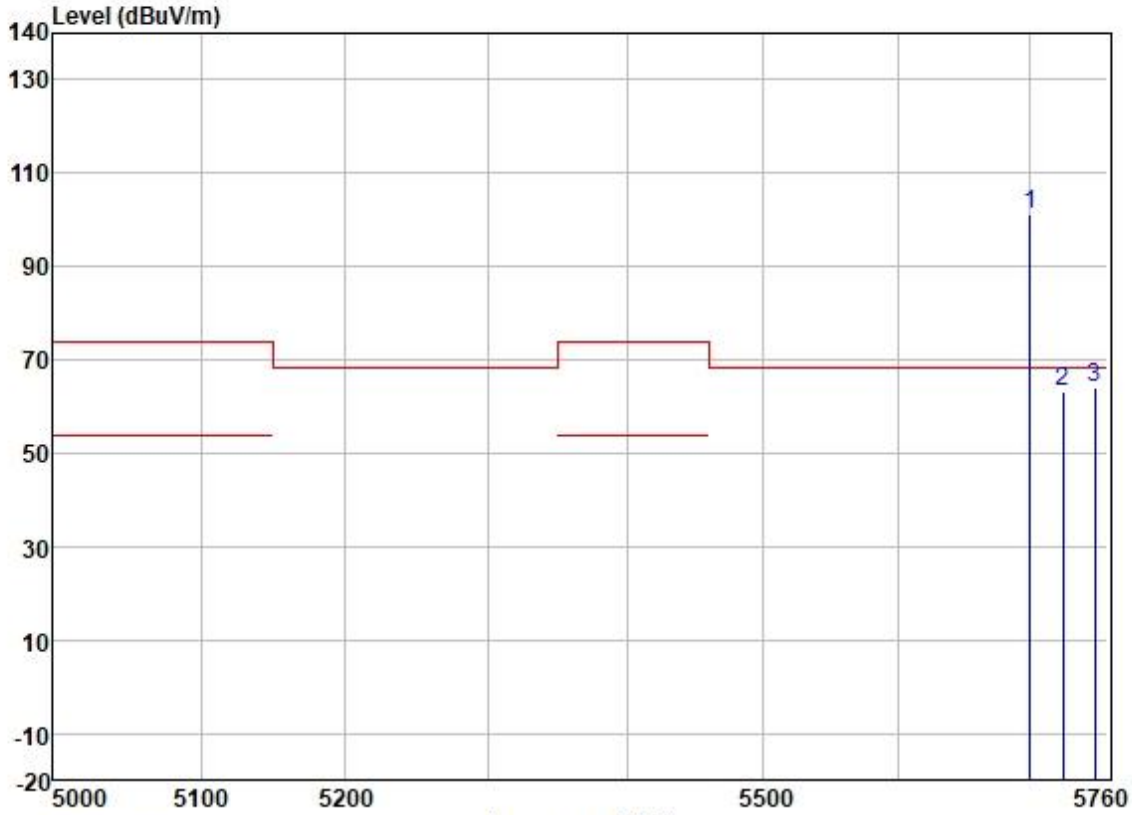
Test Mode: 20; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	101.13	32.01	6.40	36.89	102.65	68.20	34.45	HORIZONTAL	Peak
2	5725.000	61.32	32.07	6.25	36.89	62.75	68.20	-5.45	HORIZONTAL	Peak
3	5737.287	63.45	32.07	6.25	36.89	64.88	68.20	-3.32	HORIZONTAL	Peak

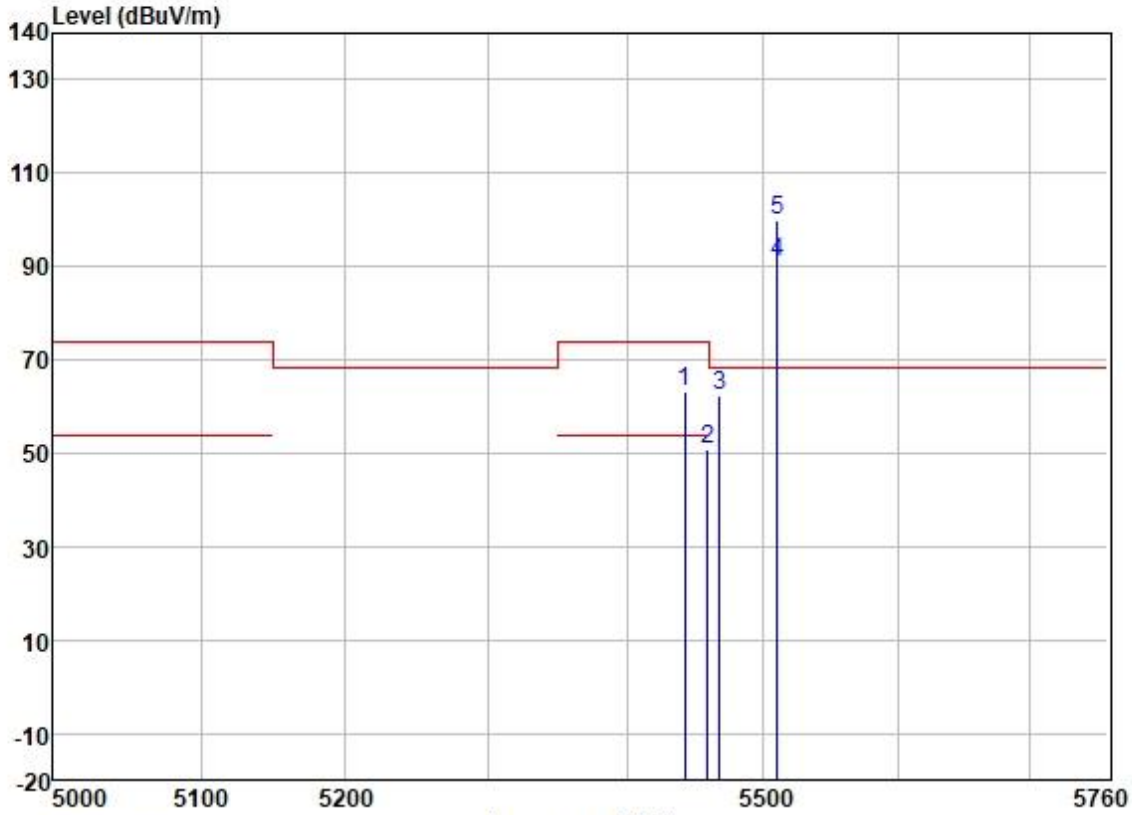
Test Mode: 20; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	99.78	32.01	6.40	36.89	101.30	68.20	33.10	VERTICAL	Peak
2	5725.000	61.72	32.07	6.25	36.89	63.15	68.20	-5.05	VERTICAL	Peak
3	5749.516	62.65	32.10	6.20	36.89	64.06	68.20	-4.14	VERTICAL	Peak

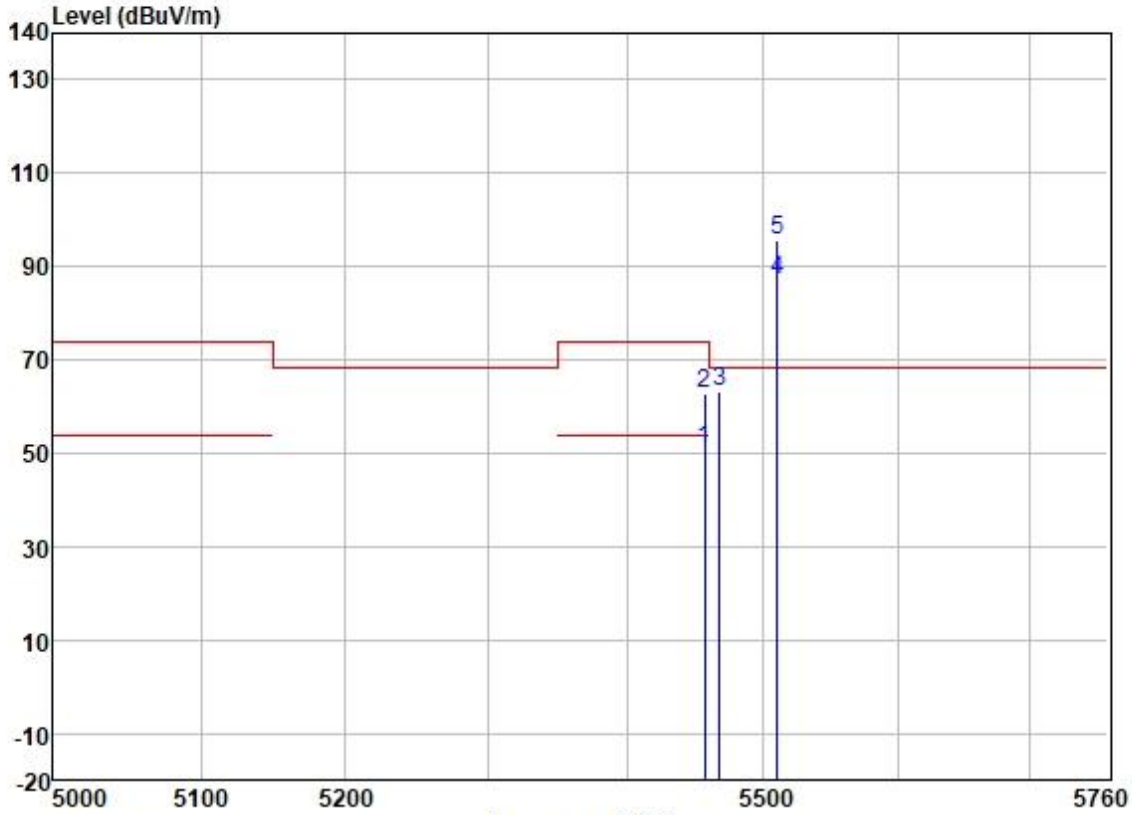
Test Mode: 20; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	5442.182	62.10	31.79	6.20	36.88	63.21	74.00	-10.79	HORIZONTAL	Peak
2	5458.643	49.56	31.79	6.26	36.88	50.73	54.00	-3.27	HORIZONTAL	Average
3	5467.173	61.24	31.80	6.31	36.88	62.47	68.20	-5.73	HORIZONTAL	Peak
4	5510.000	89.61	31.80	6.40	36.88	90.93	------	------	HORIZONTAL	Average
5 *	5510.000	98.49	31.80	6.40	36.88	99.81	68.20	31.61	HORIZONTAL	Peak

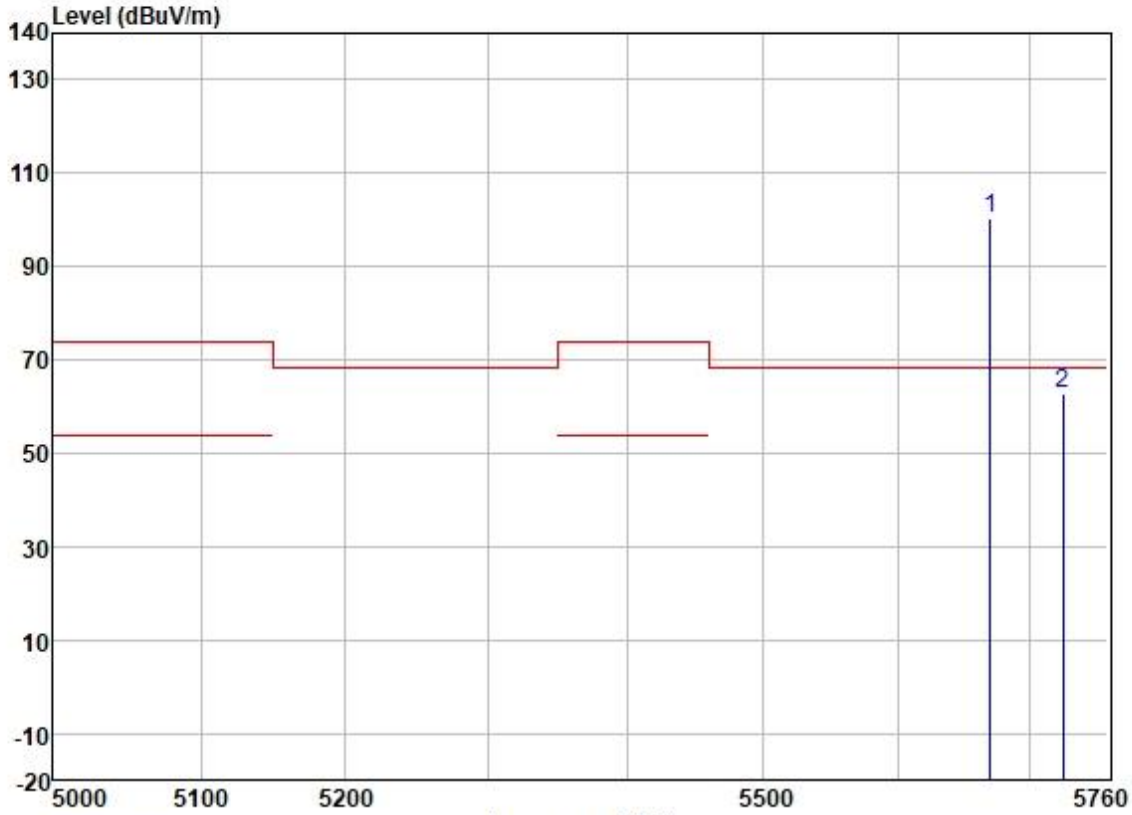
Test Mode: 20; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	5456.688	49.75	31.79	6.26	36.88	50.92	54.00	-3.08	VERTICAL	Average
2	5456.688	61.73	31.79	6.26	36.88	62.90	74.00	-11.10	VERTICAL	Peak
3	5467.592	61.81	31.80	6.31	36.88	63.04	68.20	-5.16	VERTICAL	Peak
4	5510.000	85.88	31.80	6.40	36.88	87.20	------	------	VERTICAL	Average
5 *	5510.000	94.29	31.80	6.40	36.88	95.61	68.20	27.41	VERTICAL	Peak

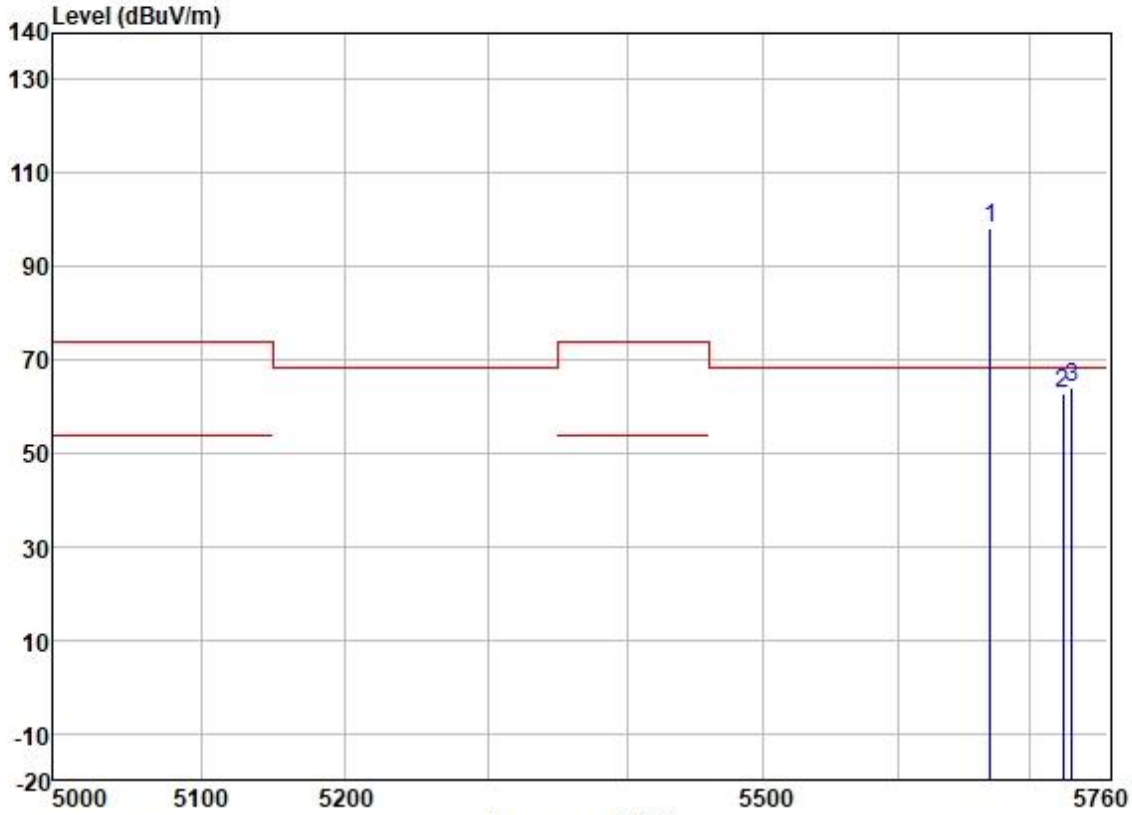
Test Mode: 20; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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	98.91	31.97	6.37	36.89	100.36	68.20	32.16	HORIZONTAL	Peak
2	5725.000	61.15	32.07	6.25	36.89	62.58	68.20	-5.62	HORIZONTAL	Peak

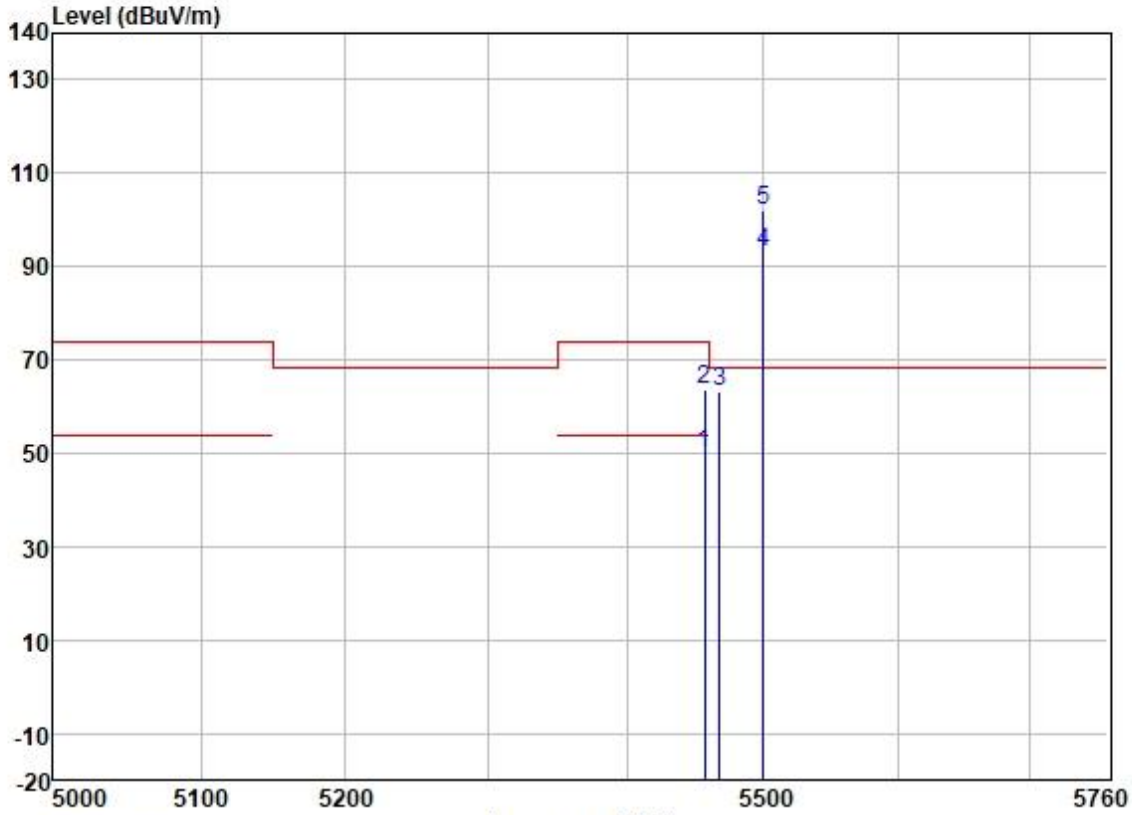
Test Mode: 20; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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	96.80	31.97	6.37	36.89	98.25	68.20	30.05	VERTICAL	Peak
2		5725.000	61.41	32.07	6.25	36.89	62.84	68.20	-5.36	VERTICAL	Peak
3		5731.733	62.66	32.07	6.25	36.89	64.09	68.20	-4.11	VERTICAL	Peak

Test Mode: 20; 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		5456.551	49.01	31.79	6.26	36.88	50.18	54.00	-3.82	HORIZONTAL	Average
2		5456.551	62.51	31.79	6.26	36.88	63.68	74.00	-10.32	HORIZONTAL	Peak
3		5467.115	61.82	31.80	6.31	36.88	63.05	68.20	-5.15	HORIZONTAL	Peak
4		5500.000	91.55	31.80	6.40	36.88	92.87	------	------	HORIZONTAL	Average
5	*	5500.000	100.76	31.80	6.40	36.88	102.08	68.20	33.88	HORIZONTAL	Peak