



TEST REPORT

Application No.: GZCR2112021460AT
Applicant: Nexar Inc.
Address of Applicant: 205 Hudson st, New York, NY 10013, USA
Manufacturer: Nexar Inc.
Address of Manufacturer: 205 Hudson st, New York, NY 10013, USA
Factory: SHENZHEN AONI ELECTRONIC CO.LTD.
Address of Factory: No.5 Bldg., Honghui Industrial Park, 2nd Liuxian Rd., Bao'an, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: nexarOne
Model No.: NXONE-1.1
Trade Mark: nexarOne™
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2021-12-11
Date of Test: 2021-12-11 to 2021-12-21
Date of Issue: 2021-12-21

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-12-21		Original

Authorized for issue by				
Tested By				
		Curry Wu/Project Engineer		
Reviewed By				
		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
Duty Cycle	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 12.2	KDB 789033 D02 v02r01 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Radiated Emissions (below 1GHz)		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
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	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.

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4 General Information

4.1 Details of E.U.T.

Power supply:	powered by car charger with Input:DC12V/24V Output: DC5V
Cable(s):	Type C cable(Unshielded, 360cm)
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:	Integral Antenna
Antenna Gain:	1.1dBi
Remark:	DC12V and DC24V had been pre-scan, and the worse case DC12V had been recorded in the report

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Wireless Router	LINKSYS	WRT32X	22C10609709105
Laptop	Lenovo	L480	REF. No.SEA18C01F

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Radiated Emissions (below 1GHz)	5.06dB (30MHz-1GHz ; 3m) 4.46dB (30MHz-1GHz ; 10m)
Radiated Emissions which fall in the restricted bands	$\pm 4.5\text{dB}$ (below 1GHz); $\pm 4.8\text{dB}$ (above 1GHz);
Frequency Stability	$\pm 7.25 \times 10^{-8}$
Radiated Emissions (above 1GHz)	5.08 dB (1-6GHz); 5.14 (above 6 GHz)
Remark: The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech 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.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A



26dB Emission bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Maximum Conducted output power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date



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MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Peak Power spectrum density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

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



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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
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
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
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

Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01



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Non-occupancy period					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Channel Move Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A



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Channel Closing Transmission Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
VARIABLE ATTENUATOR	TAMAGAWA ELECTRONICS CO.LTD	TRA-801	EMC02077	/	/
BENCHTOP ATTENUATOR	JFW INDUSTRIES INC.	50BR-068 SMA	EMC02076	/	/

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	2020-07-30	2021-07-29
				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
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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



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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 integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna: 1.1dBi.

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

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 (AP6256) 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.



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7 Radio Spectrum Matter Test Results

7.1 Duty Cycle

Test Requirement KDB 789033 D02 v02r01 II B 1

Test Method: ANSI C63.10 (2013) Section 12.2

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 48.9 % RH

Atmospheric Pressure: 1003 mbar

7.1.2 Test Mode Description

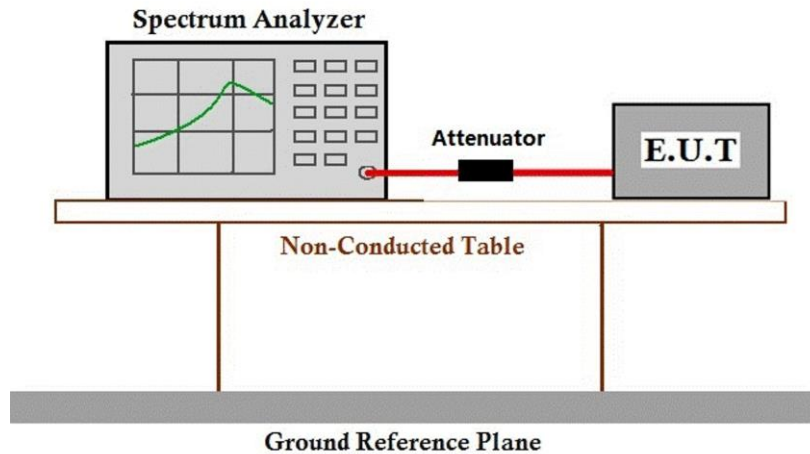
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst 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	01	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	02	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	03	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.



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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.2 99% Bandwidth

Test Requirement N/A
Test Method: KDB 789033 II D

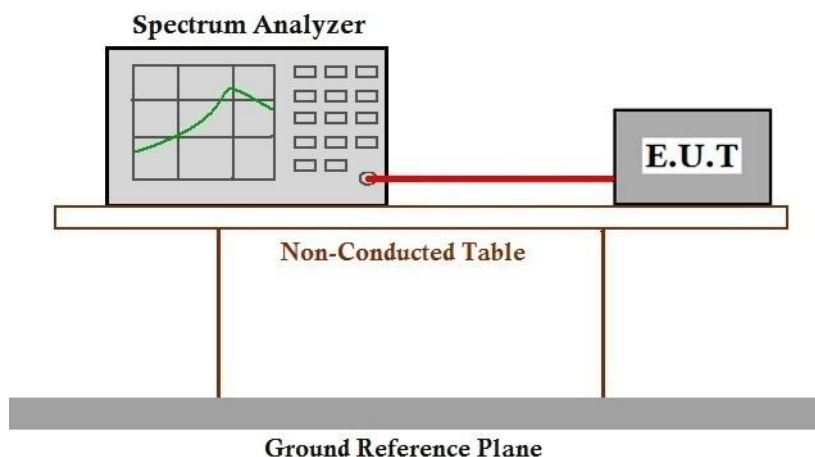
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.4 °C Humidity: 48.9 % RH Atmospheric Pressure: 1003 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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	01	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	02	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	03	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.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.3 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)
Test Method: KDB 789033 D02 II C 1

7.3.1 E.U.T. Operation

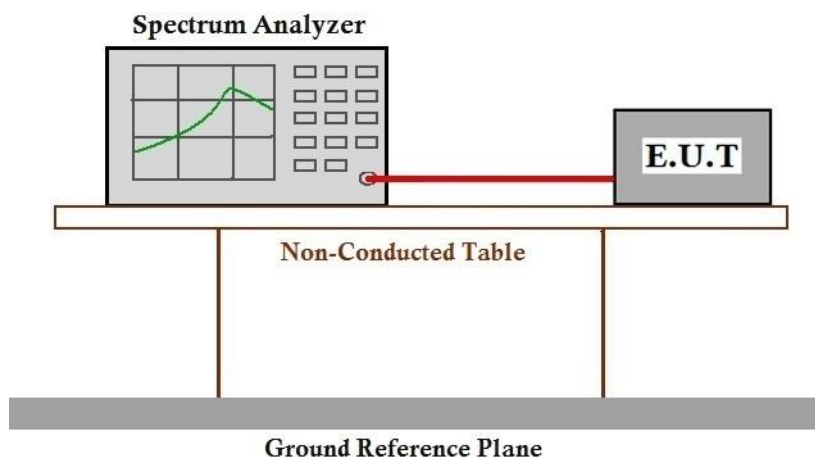
Operating Environment:

Temperature: 23.4 °C Humidity: 48.9 % RH Atmospheric Pressure: 1003 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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	01	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	02	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	03	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.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.4 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

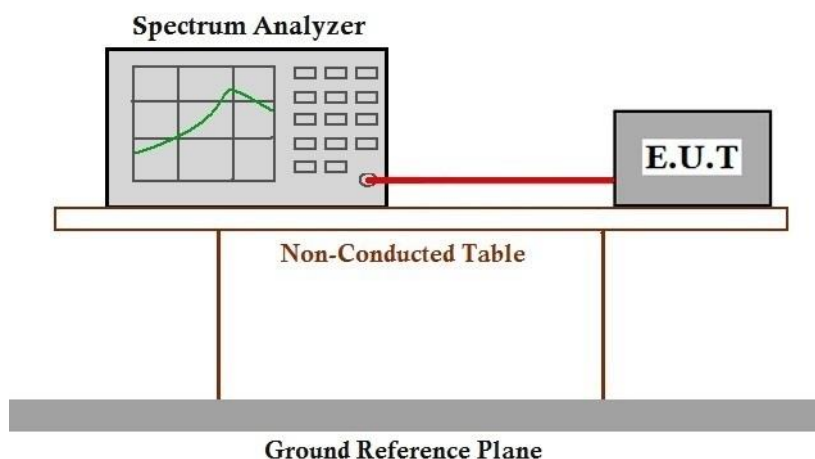
Humidity: 48.9 % RH

Atmospheric Pressure: 1003 mbar

7.4.2 Test Mode Description

Pre-scan / Mode
Final test Code Description

Final test 03 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.

7.4.3 Test Setup Diagram**7.4.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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7.5 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 48.9 % RH Atmospheric Pressure: 1003 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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	01	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	02	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



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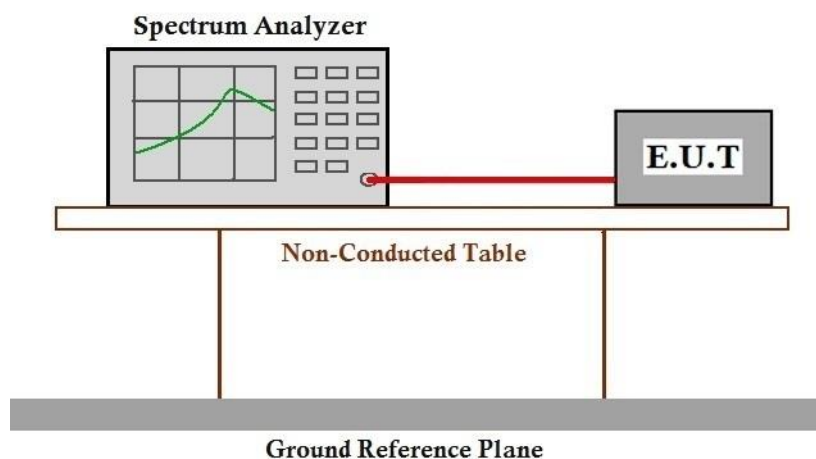
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Final test 03

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.

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.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 48.9 % RH Atmospheric Pressure: 1003 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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Final test	00	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.
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Final test	01	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.
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Final test	02	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.
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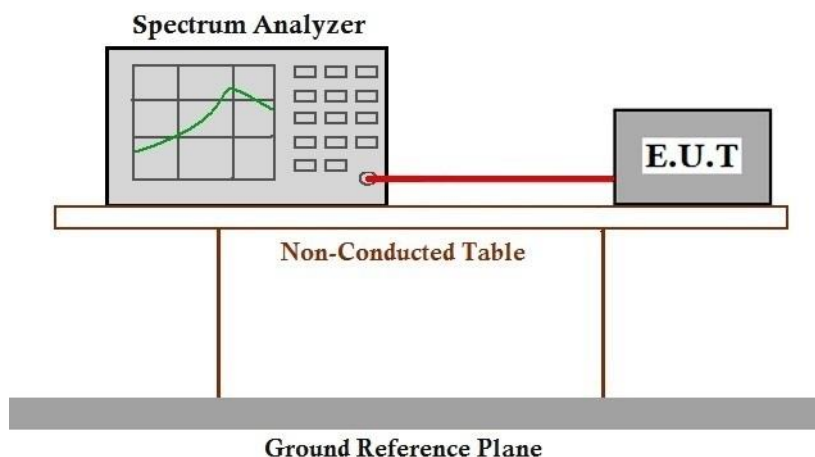
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Final test 03

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.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 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

*(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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 49.8 % RH Atmospheric Pressure: 1003 mbar

7.7.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	



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Final test 00

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 01

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.

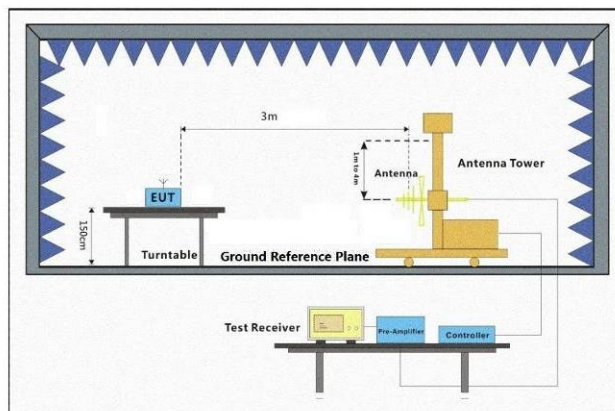
Pre-scan 02

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 03

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.

7.7.3 Test Setup Diagram



7.7.4 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:

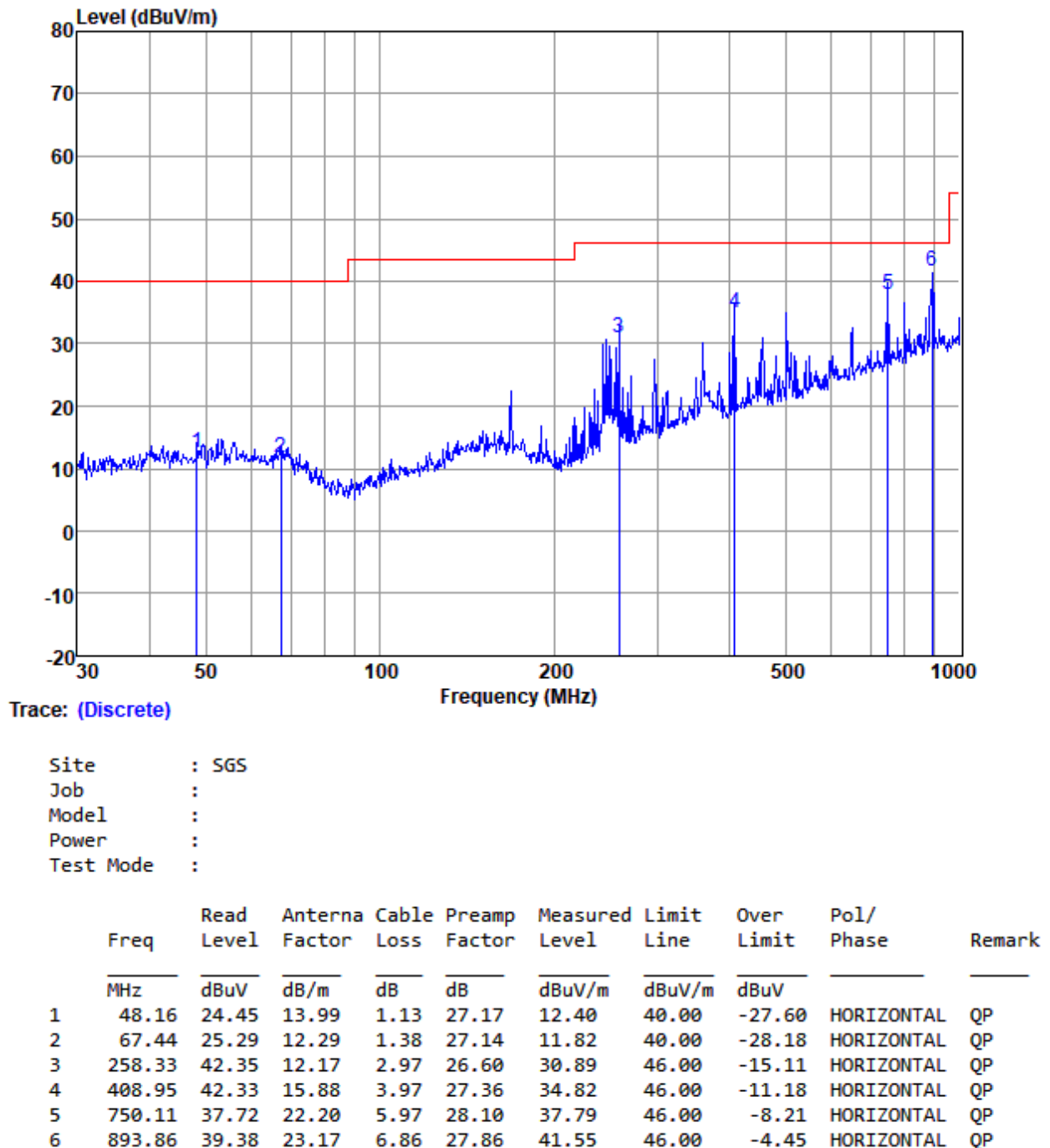
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 1GHz, the disturbance below 30MHz was very low. The points marked 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.



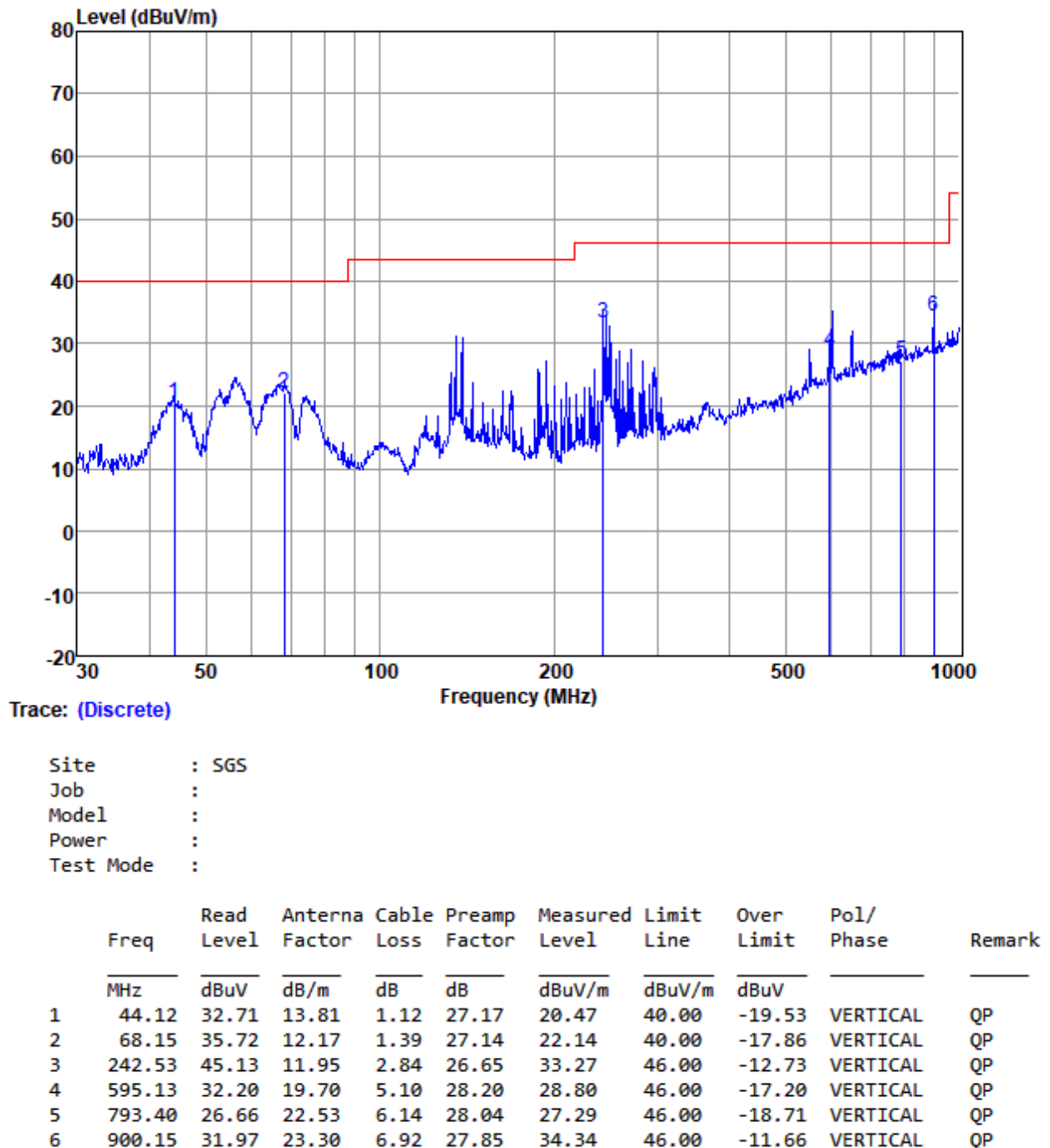
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Test Mode: 00; Polarity: Horizontal



Test Mode: 00; Polarity: Vertical



7.8 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.

7.8.1 E.U.T. Operation

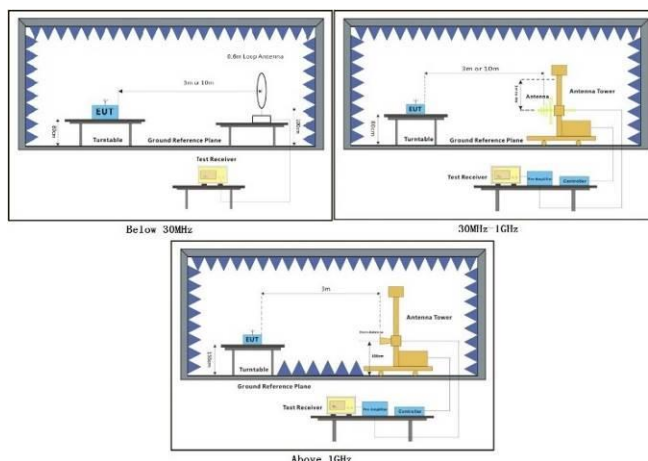
Operating Environment:

Temperature: 23.5 °C Humidity: 49.8 % RH Atmospheric Pressure: 1003 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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	01	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	02	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	03	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.

7.8.3 Test Setup Diagram

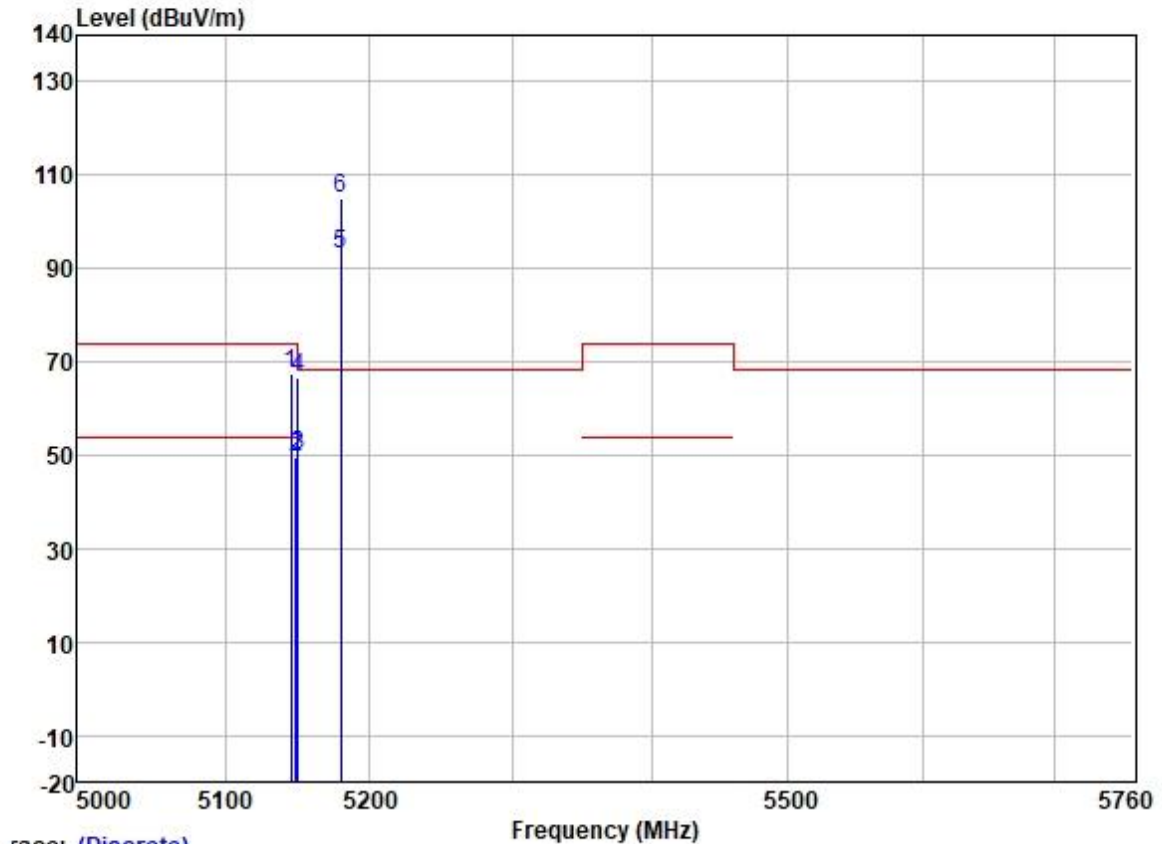


7.8.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

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

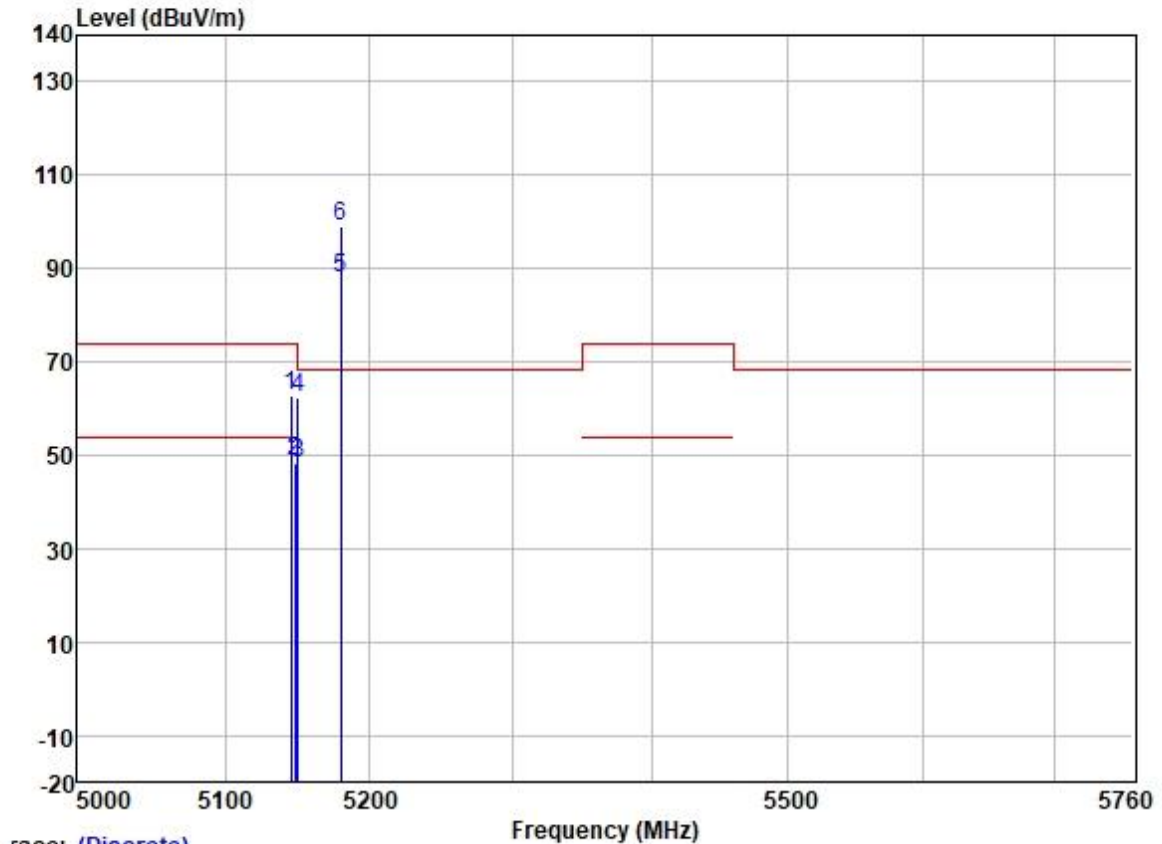
Test Mode: 00; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5144.959	66.80	31.72	5.62	36.86	67.28	74.00	-6.72	HORIZONTAL Peak
2	5148.558	49.17	31.72	5.62	36.86	49.65	54.00	-4.35	HORIZONTAL Average
3	5149.980	49.29	31.72	5.62	36.86	49.77	54.00	-4.23	HORIZONTAL Average
4	5149.980	66.27	31.72	5.62	36.86	66.75	74.00	-7.25	HORIZONTAL Peak
5	5180.000	92.80	31.73	5.61	36.87	93.27	-----	-----	HORIZONTAL Average
6 *	5180.000	104.45	31.73	5.61	36.87	104.92	68.20	36.72	HORIZONTAL Peak

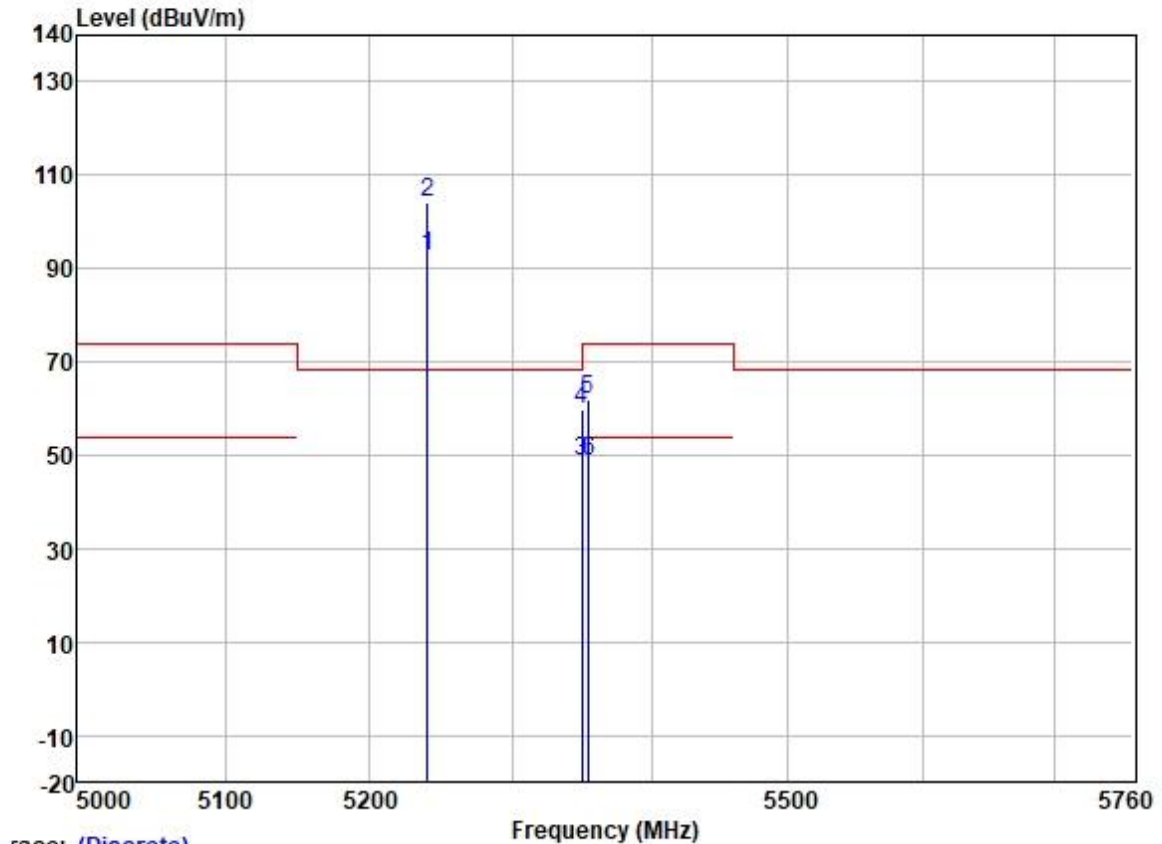
Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



race: (Discrete)

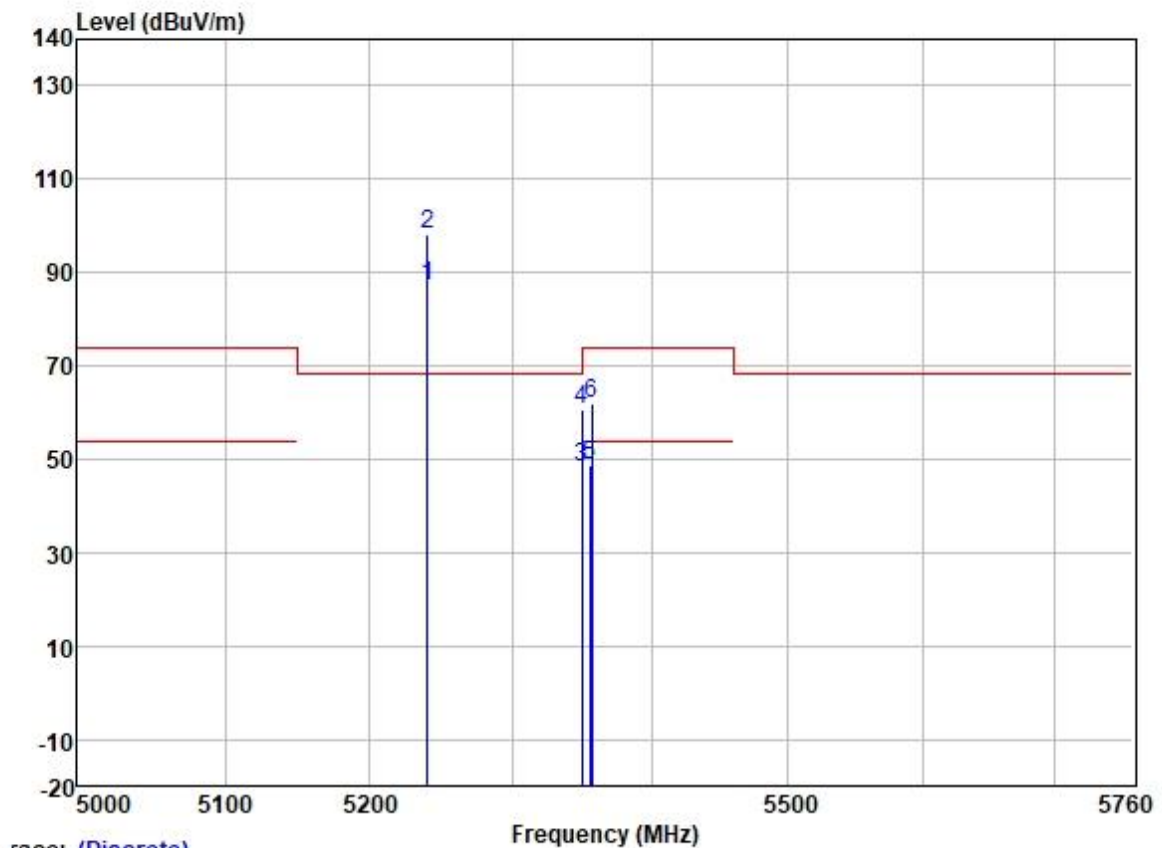
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5145.459	62.36	31.72	5.62	36.86	62.84	74.00	-11.16	VERTICAL
2	5148.257	48.00	31.72	5.62	36.86	48.48	54.00	-5.52	VERTICAL
3	5149.980	47.93	31.72	5.62	36.86	48.41	54.00	-5.59	VERTICAL
4	5149.980	62.07	31.72	5.62	36.86	62.55	74.00	-11.45	VERTICAL
5	5180.000	87.28	31.73	5.61	36.87	87.75	-----	-----	VERTICAL
6 *	5180.000	98.72	31.73	5.61	36.87	99.19	68.20	30.99	VERTICAL

Test Mode: 00; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Race: (Discrete)	Frequency (MHz)								
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor	Level	Line		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	92.12	31.75	5.74	36.87	92.74	-----	-----	HORIZONTAL Average
2 *	5240.000	103.36	31.75	5.74	36.87	103.98	68.20	35.78	HORIZONTAL Peak
3	5350.020	47.55	31.77	6.05	36.88	48.49	54.00	-5.51	HORIZONTAL Average
4	5350.020	59.04	31.77	6.05	36.88	59.98	74.00	-14.02	HORIZONTAL Peak
5	5354.329	60.89	31.78	6.03	36.88	61.82	74.00	-12.18	HORIZONTAL Peak
6	5355.037	47.80	31.78	6.03	36.88	48.73	54.00	-5.27	HORIZONTAL Average

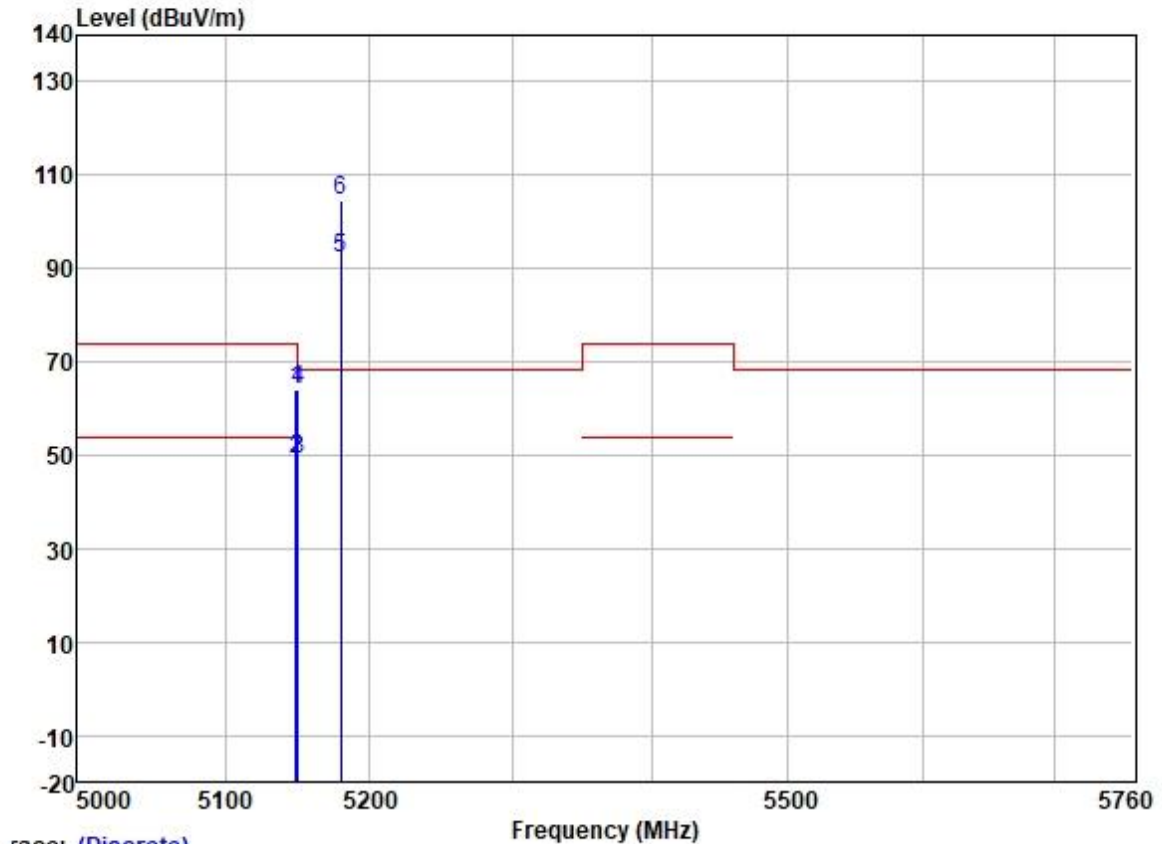
Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5240.000	86.50	31.75	5.74	36.87	87.12	-----	-----	VERTICAL	Average
2 *	5240.000	97.55	31.75	5.74	36.87	98.17	68.20	29.97	VERTICAL	Peak
3	5350.020	47.48	31.77	6.05	36.88	48.42	54.00	-5.58	VERTICAL	Average
4	5350.020	59.68	31.77	6.05	36.88	60.62	74.00	-13.38	VERTICAL	Peak
5	5355.462	47.67	31.78	6.03	36.88	48.60	54.00	-5.40	VERTICAL	Average
6	5356.596	60.96	31.78	6.03	36.88	61.89	74.00	-12.11	VERTICAL	Peak

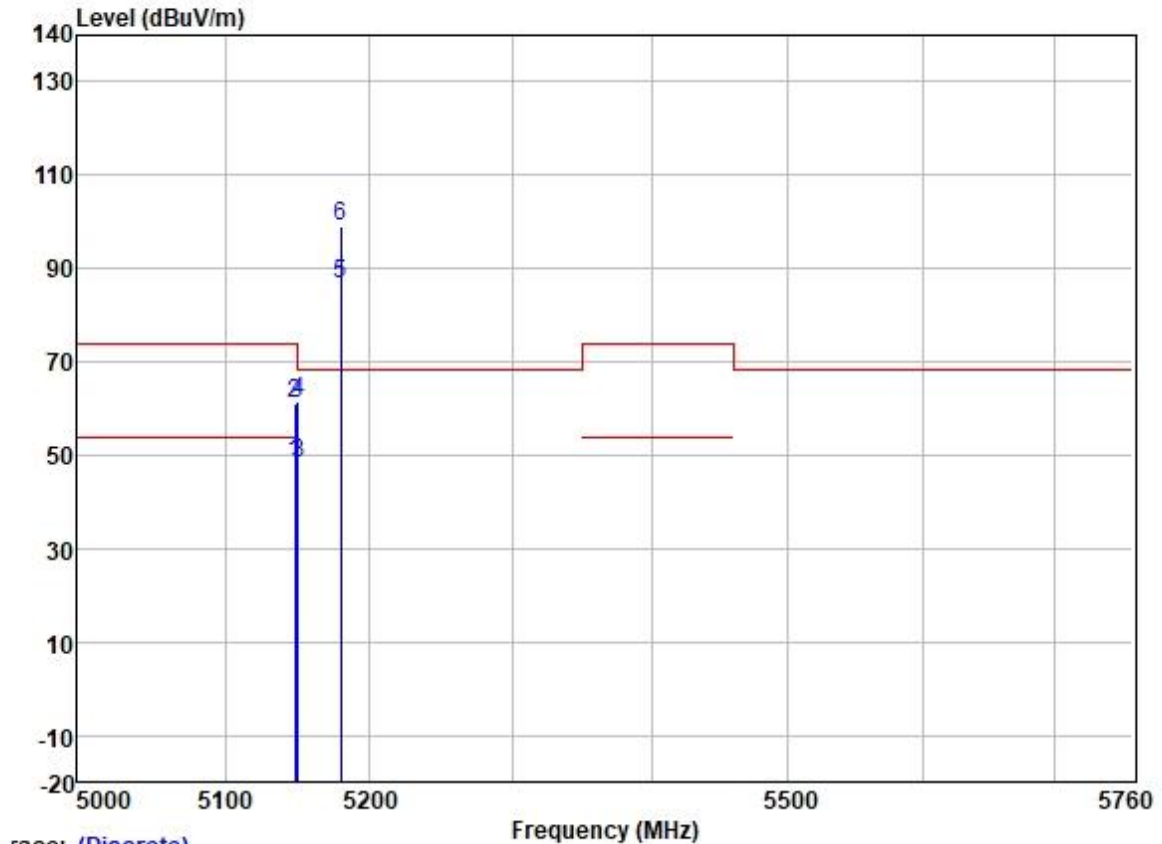
Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5148.757	63.64	31.72	5.62	36.86	64.12	74.00	-9.88	HORIZONTAL	Peak
2	5148.857	48.47	31.72	5.62	36.86	48.95	54.00	-5.05	HORIZONTAL	Average
3	5149.980	48.54	31.72	5.62	36.86	49.02	54.00	-4.98	HORIZONTAL	Average
4	5149.980	63.37	31.72	5.62	36.86	63.85	74.00	-10.15	HORIZONTAL	Peak
5	5180.000	91.83	31.73	5.61	36.87	92.30	-----	-----	HORIZONTAL	Average
6 *	5180.000	103.95	31.73	5.61	36.87	104.42	68.20	36.22	HORIZONTAL	Peak

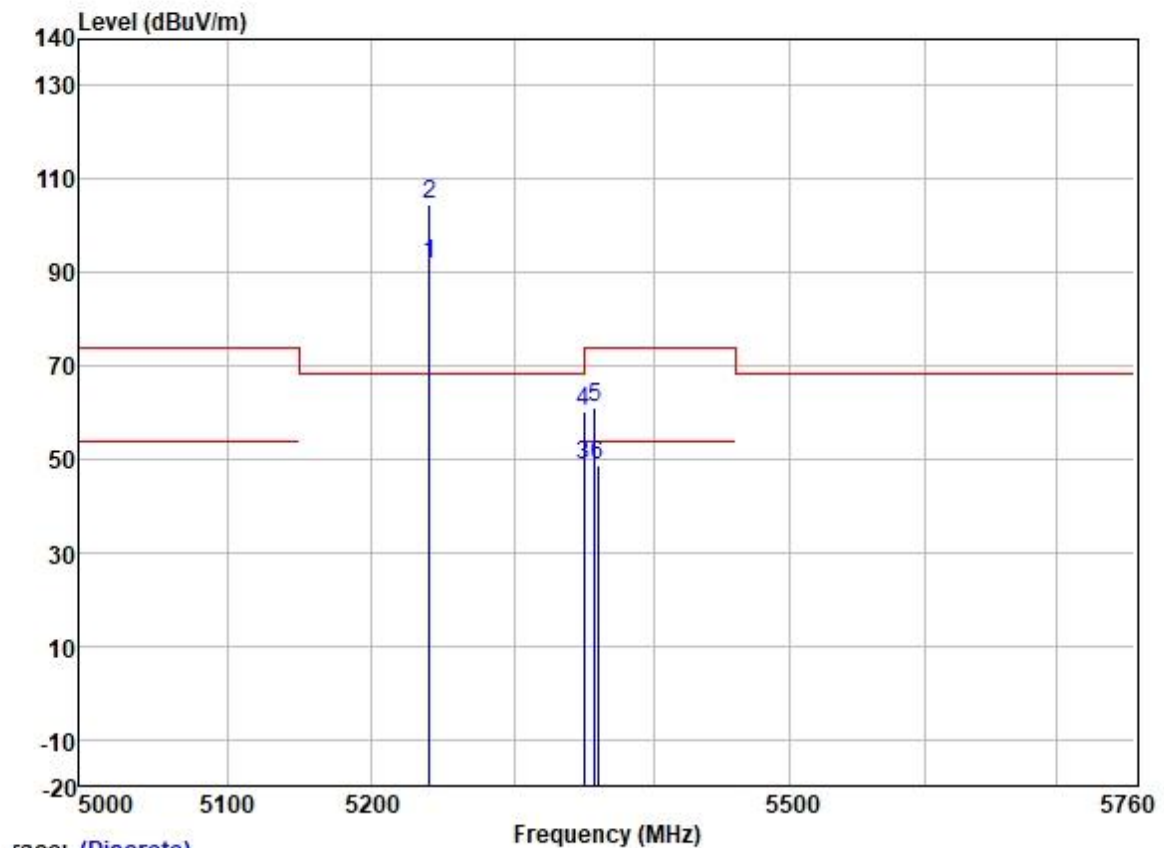
Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5147.758	47.83	31.72	5.62	36.86	48.31	54.00	-5.69	VERTICAL	Average
2	5147.758	60.53	31.72	5.62	36.86	61.01	74.00	-12.99	VERTICAL	Peak
3	5149.980	47.85	31.72	5.62	36.86	48.33	54.00	-5.67	VERTICAL	Average
4	5149.980	60.83	31.72	5.62	36.86	61.31	74.00	-12.69	VERTICAL	Peak
5	5180.000	86.26	31.73	5.61	36.87	86.73	-----	-----	VERTICAL	Average
6 *	5180.000	98.65	31.73	5.61	36.87	99.12	68.20	30.92	VERTICAL	Peak

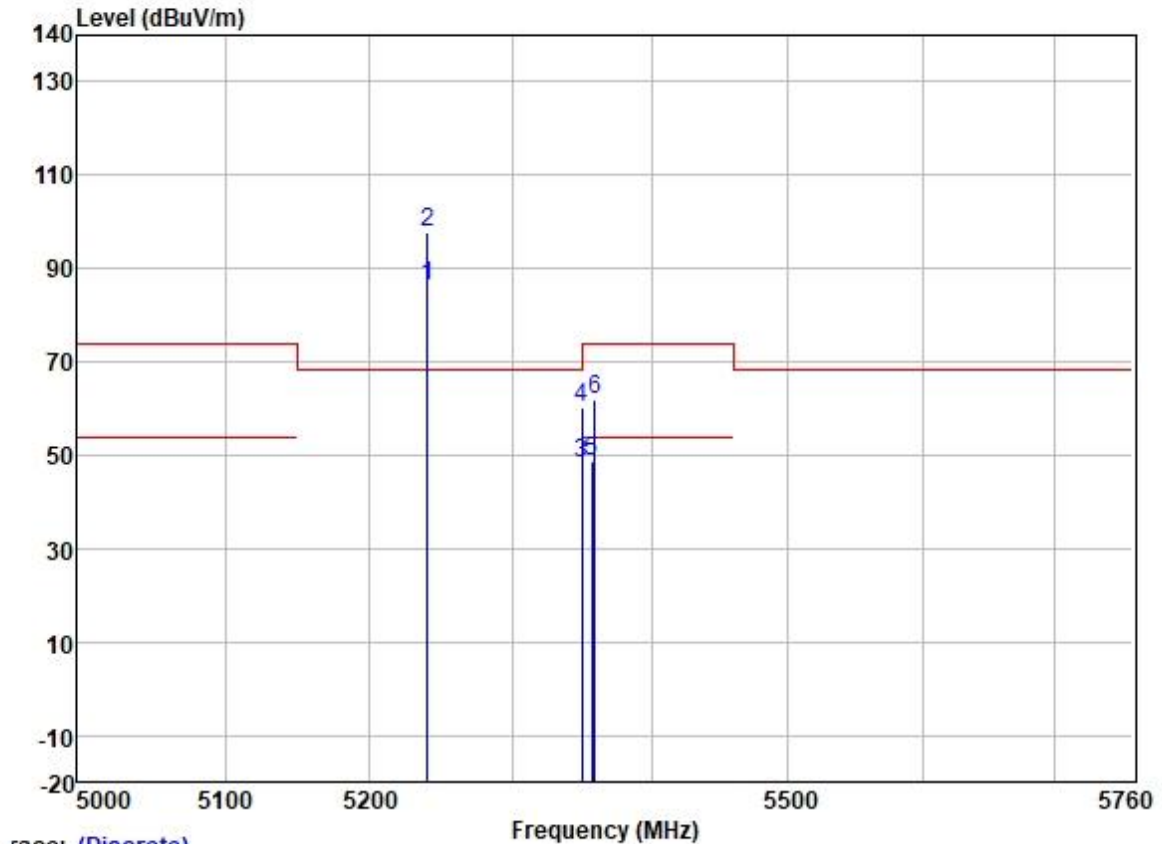
Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	91.35	31.75	5.74	36.87	91.97	-----	-----	HORIZONTAL Average
2 *	5240.000	104.06	31.75	5.74	36.87	104.68	68.20	36.48	HORIZONTAL Peak
3	5350.020	47.63	31.77	6.05	36.88	48.57	54.00	-5.43	HORIZONTAL Average
4	5350.020	59.38	31.77	6.05	36.88	60.32	74.00	-13.68	HORIZONTAL Peak
5	5357.589	60.30	31.78	6.03	36.88	61.23	74.00	-12.77	HORIZONTAL Peak
6	5359.858	47.65	31.78	6.03	36.88	48.58	54.00	-5.42	HORIZONTAL Average

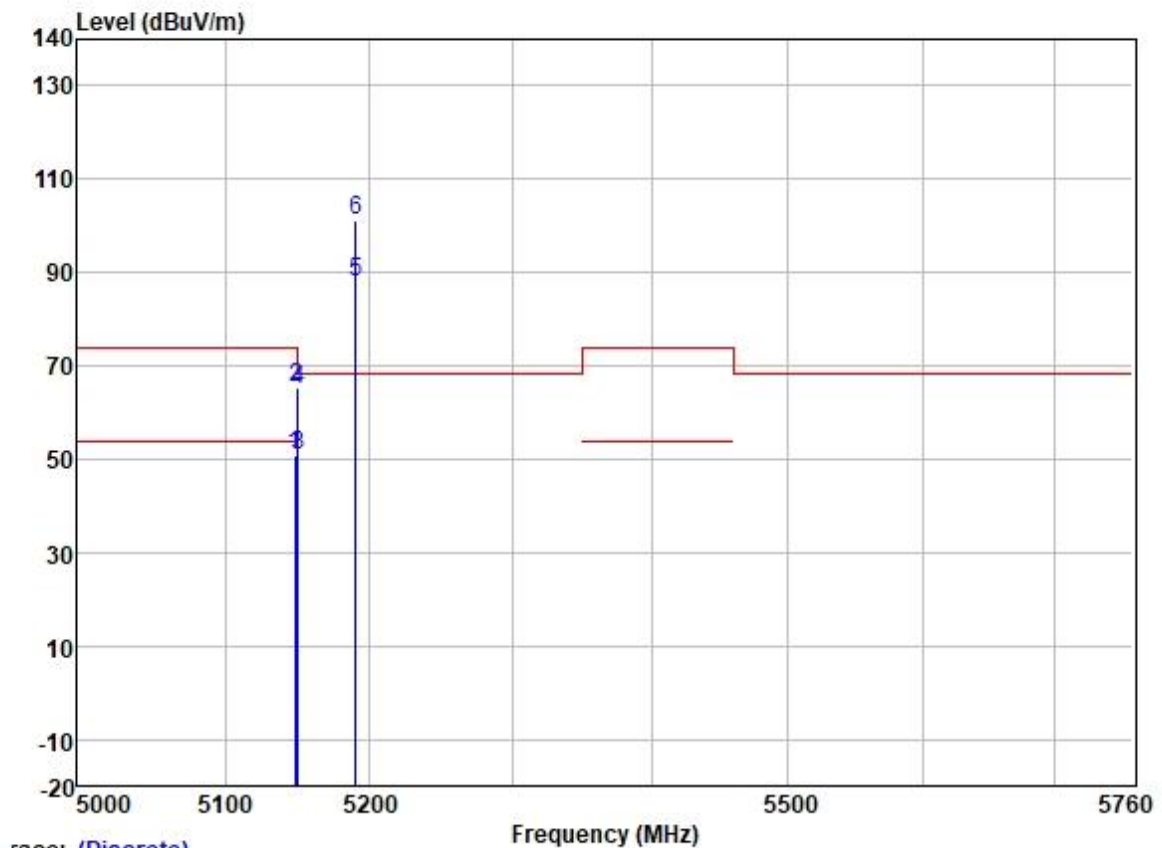
Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

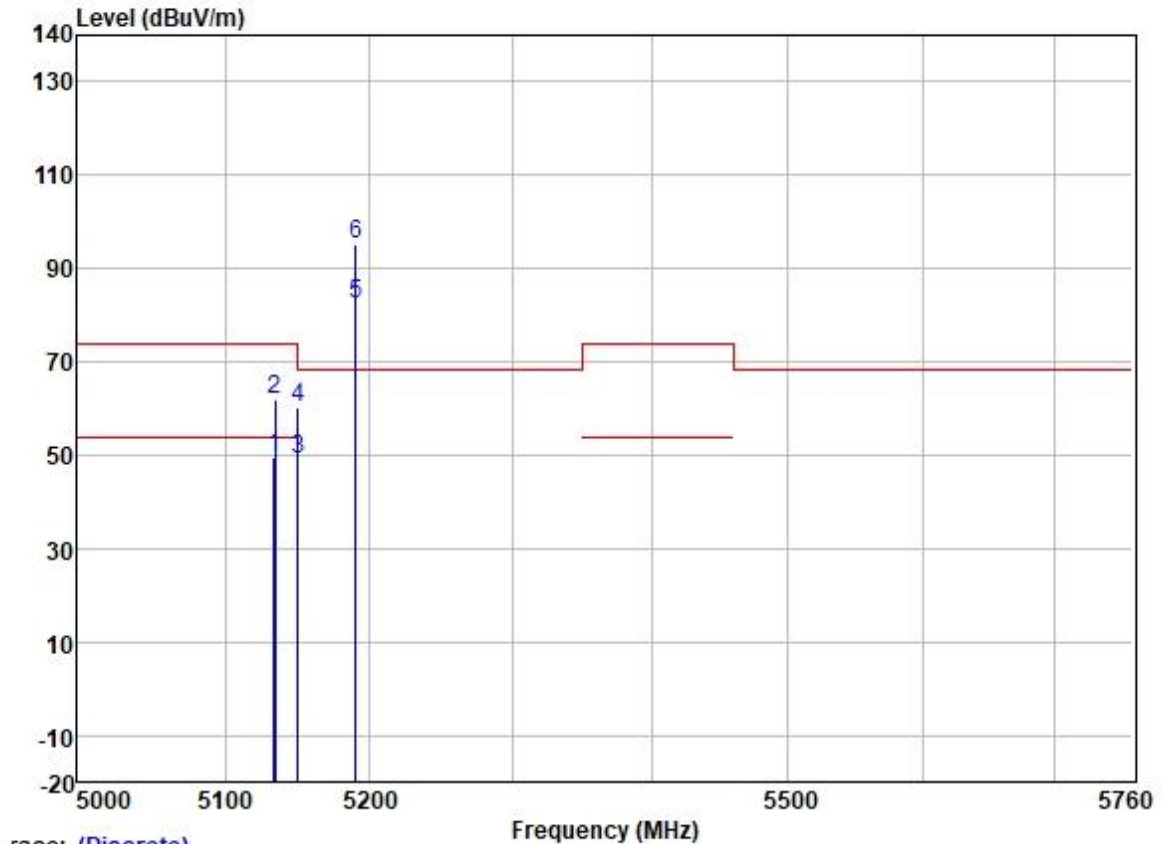
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	85.66	31.75	5.74	36.87	86.28	-----	-----	VERTICAL
2	* 5240.000	97.20	31.75	5.74	36.87	97.82	68.20	29.62	VERTICAL
3	5350.020	47.49	31.77	6.05	36.88	48.43	54.00	-5.57	VERTICAL
4	5350.020	59.11	31.77	6.05	36.88	60.05	74.00	-13.95	VERTICAL
5	5357.022	47.70	31.78	6.03	36.88	48.63	54.00	-5.37	VERTICAL
6	5359.291	60.80	31.78	6.03	36.88	61.73	74.00	-12.27	VERTICAL

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



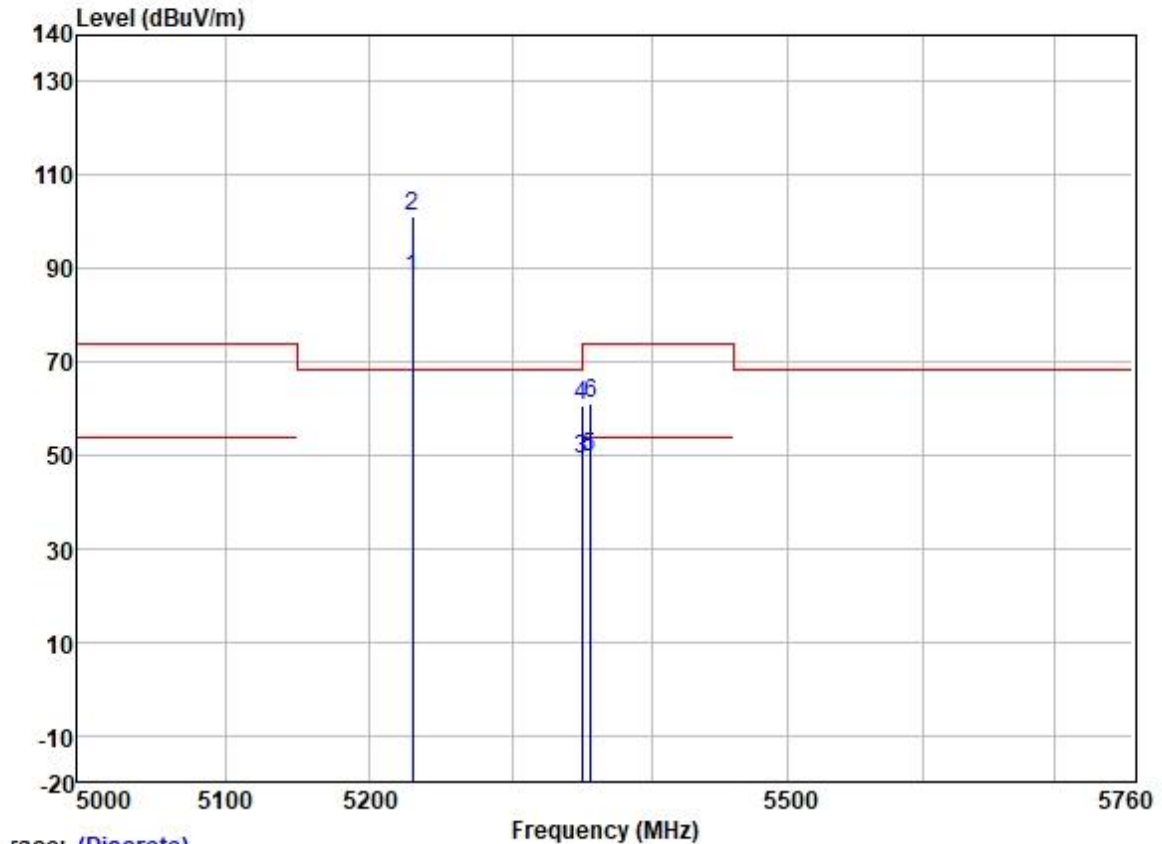
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5147.666	50.42	31.72	5.62	36.86	50.90	54.00	-3.10	HORIZONTAL	Average
2	5149.342	64.68	31.72	5.62	36.86	65.16	74.00	-8.84	HORIZONTAL	Peak
3	5149.980	50.32	31.72	5.62	36.86	50.80	54.00	-3.20	HORIZONTAL	Average
4	5149.980	64.61	31.72	5.62	36.86	65.09	74.00	-8.91	HORIZONTAL	Peak
5	5190.000	87.35	31.73	5.60	36.87	87.81	-----	-----	HORIZONTAL	Average
6 *	5190.000	100.71	31.73	5.60	36.87	101.17	68.20	32.97	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



		Freq	ReadAntenna Level 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		5133.677	48.98	31.72	5.63	36.86	49.47	54.00	-4.53	VERTICAL	Average
2		5133.916	61.41	31.72	5.63	36.86	61.90	74.00	-12.10	VERTICAL	Peak
3		5149.980	48.50	31.72	5.62	36.86	48.98	54.00	-5.02	VERTICAL	Average
4		5149.980	59.87	31.72	5.62	36.86	60.35	74.00	-13.65	VERTICAL	Peak
5		5190.000	82.11	31.73	5.60	36.87	82.57	-----	-----	VERTICAL	Average
6	*	5190.000	94.88	31.73	5.60	36.87	95.34	68.20	27.14	VERTICAL	Peak

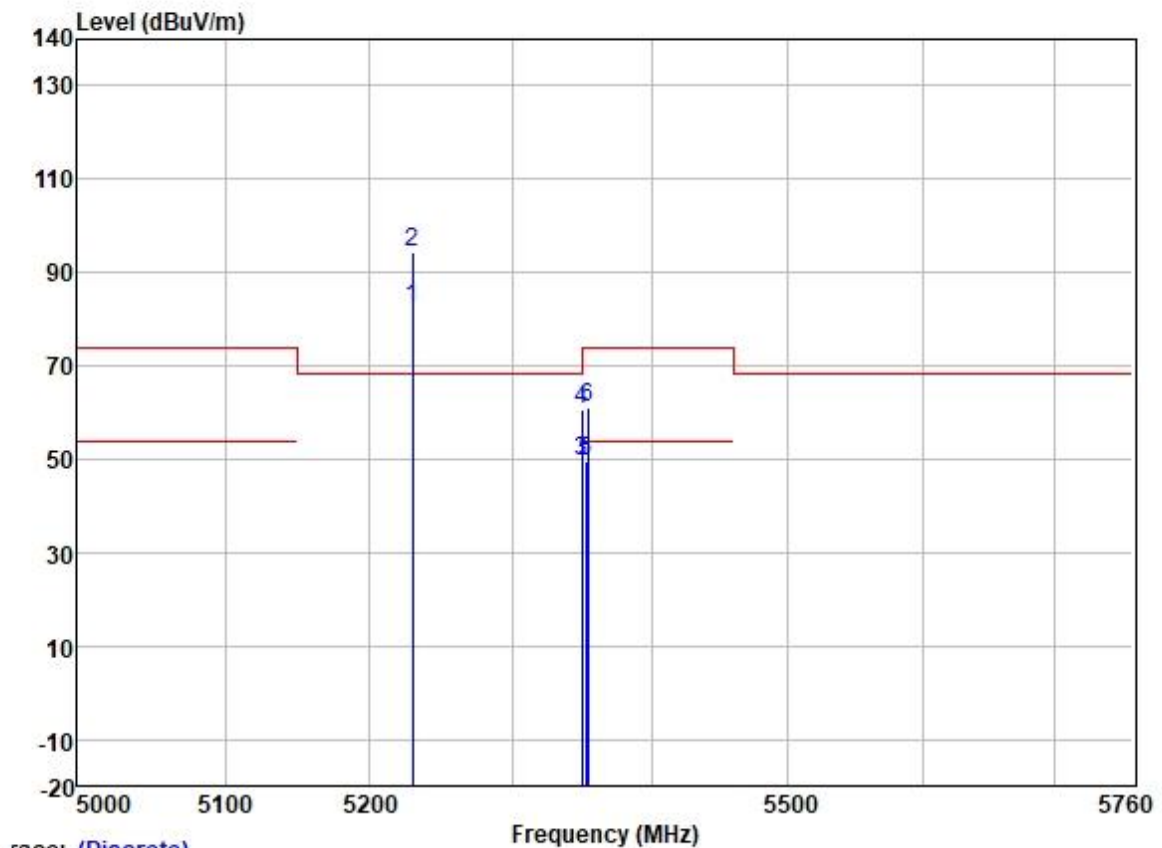
Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	87.41	31.74	5.70	36.87	87.98	-----	-----	HORIZONTAL Average
2 *	5230.000	100.59	31.74	5.70	36.87	101.16	68.20	32.96	HORIZONTAL Peak
3	5350.020	48.39	31.77	6.05	36.88	49.33	54.00	-4.67	HORIZONTAL Average
4	5350.020	59.61	31.77	6.05	36.88	60.55	74.00	-13.45	HORIZONTAL Peak
5	5355.454	48.56	31.78	6.03	36.88	49.49	54.00	-4.51	HORIZONTAL Average
6	5356.428	59.95	31.78	6.03	36.88	60.88	74.00	-13.12	HORIZONTAL Peak

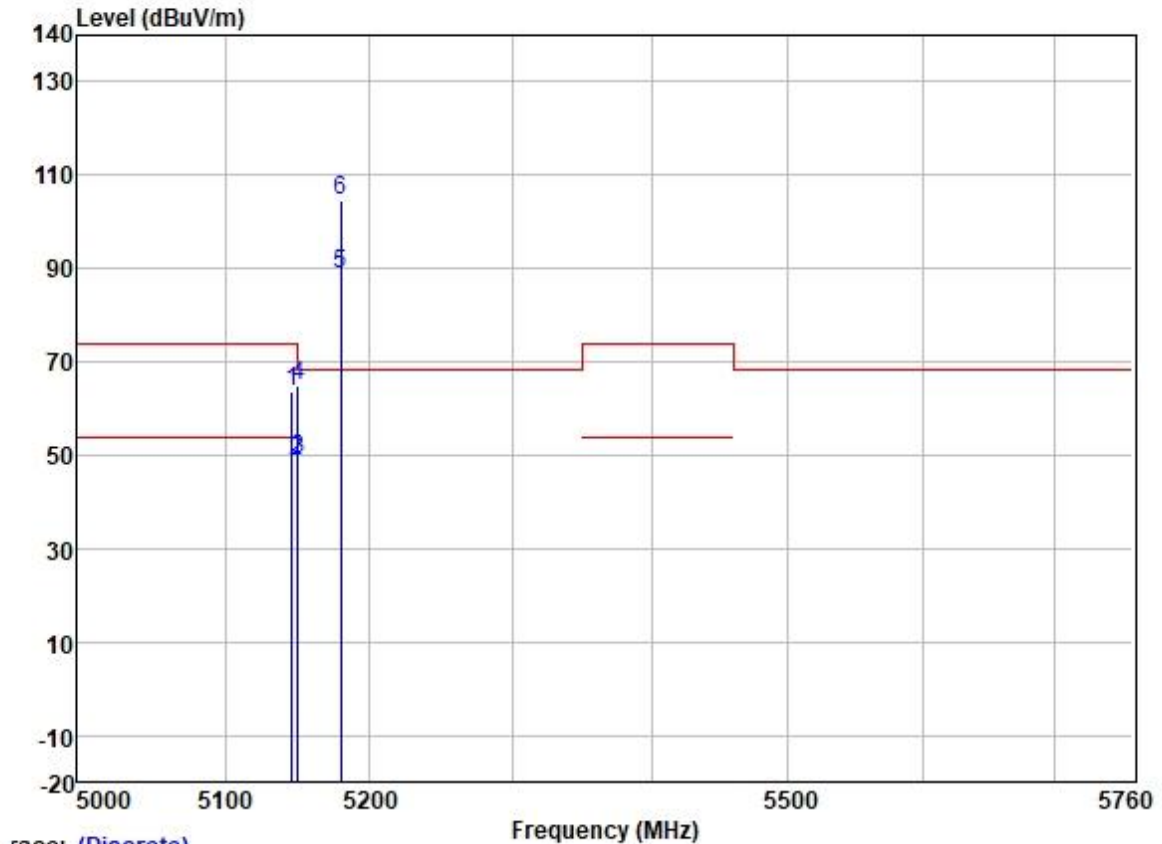
Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5230.000	81.80	31.74	5.70	36.87	82.37	-----	VERTICAL	Average
2 *	5230.000	93.77	31.74	5.70	36.87	94.34	68.20	26.14 VERTICAL	Peak
3	5350.020	48.42	31.77	6.05	36.88	49.36	54.00	-4.64 VERTICAL	Average
4	5350.020	59.78	31.77	6.05	36.88	60.72	74.00	-13.28 VERTICAL	Peak
5	5352.857	48.67	31.77	6.05	36.88	49.61	54.00	-4.39 VERTICAL	Average
6	5354.155	60.23	31.78	6.03	36.88	61.16	74.00	-12.84 VERTICAL	Peak

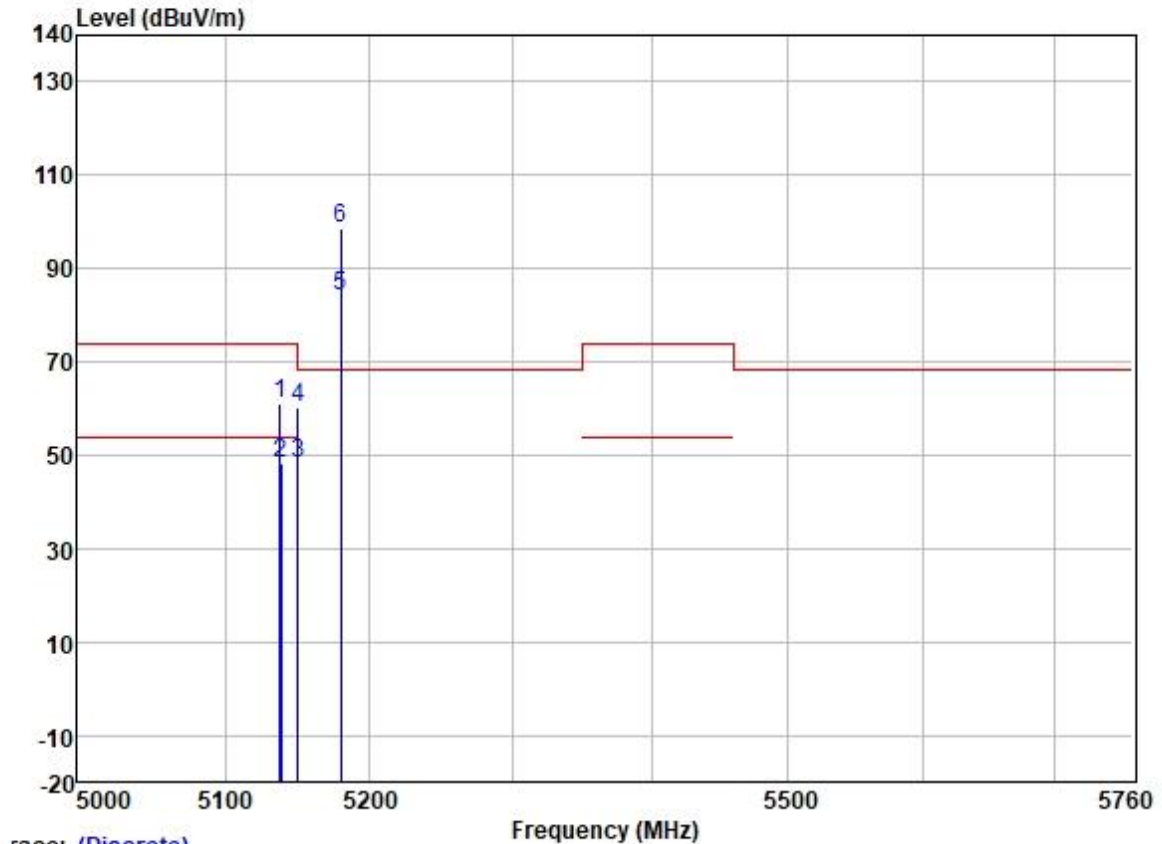
Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Trace: (Discrete)

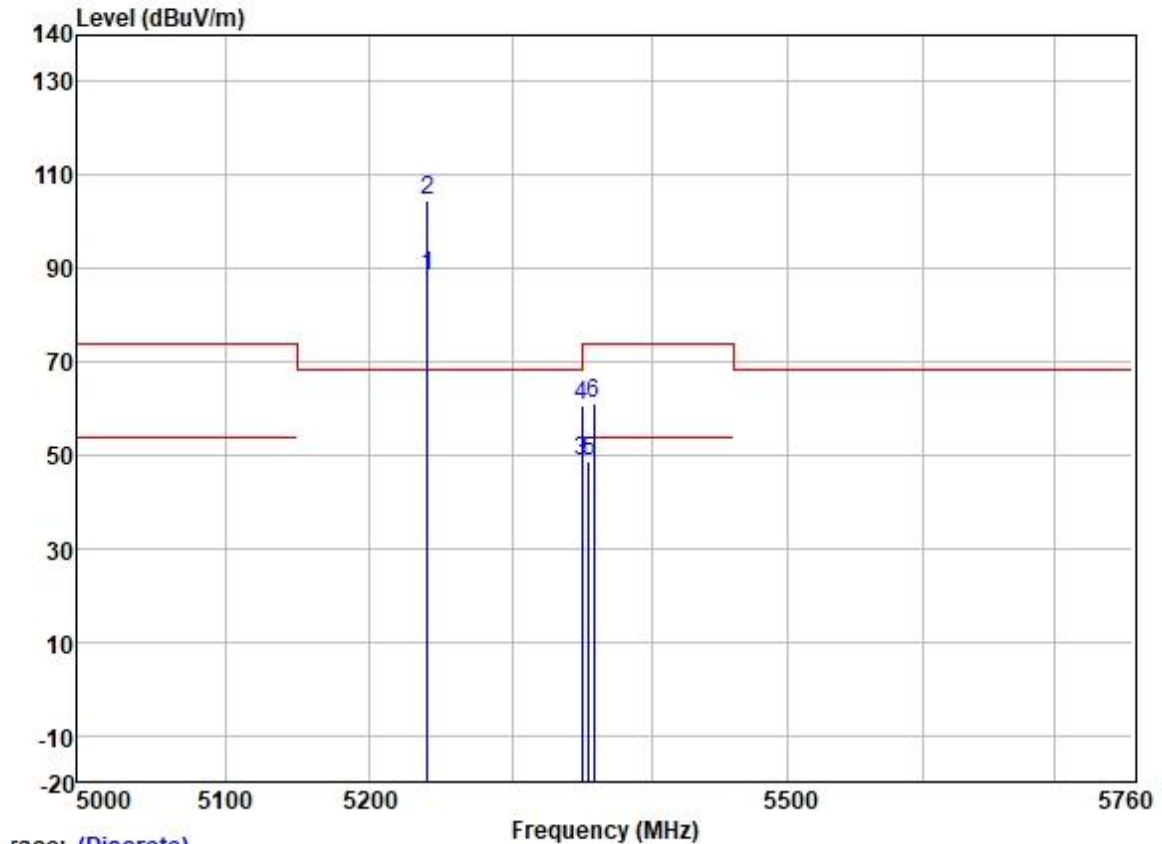
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5145.559	63.35	31.72	5.62	36.86	63.83	74.00	-10.17	HORIZONTAL	Peak
2	5149.257	48.34	31.72	5.62	36.86	48.82	54.00	-5.18	HORIZONTAL	Average
3	5149.980	48.51	31.72	5.62	36.86	48.99	54.00	-5.01	HORIZONTAL	Average
4	5149.980	64.23	31.72	5.62	36.86	64.71	74.00	-9.29	HORIZONTAL	Peak
5	5180.000	88.31	31.73	5.61	36.87	88.78	-----	-----	HORIZONTAL	Average
6 *	5180.000	104.04	31.73	5.61	36.87	104.51	68.20	36.31	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5137.971	60.45	31.72	5.63	36.86	60.94	74.00	-13.06	VERTICAL	Peak
2	5138.470	47.72	31.72	5.63	36.86	48.21	54.00	-5.79	VERTICAL	Average
3	5149.980	47.85	31.72	5.62	36.86	48.33	54.00	-5.67	VERTICAL	Average
4	5149.980	59.69	31.72	5.62	36.86	60.17	74.00	-13.83	VERTICAL	Peak
5	5180.000	83.53	31.73	5.61	36.87	84.00	-----	-----	VERTICAL	Average
6 *	5180.000	98.13	31.73	5.61	36.87	98.60	68.20	30.40	VERTICAL	Peak

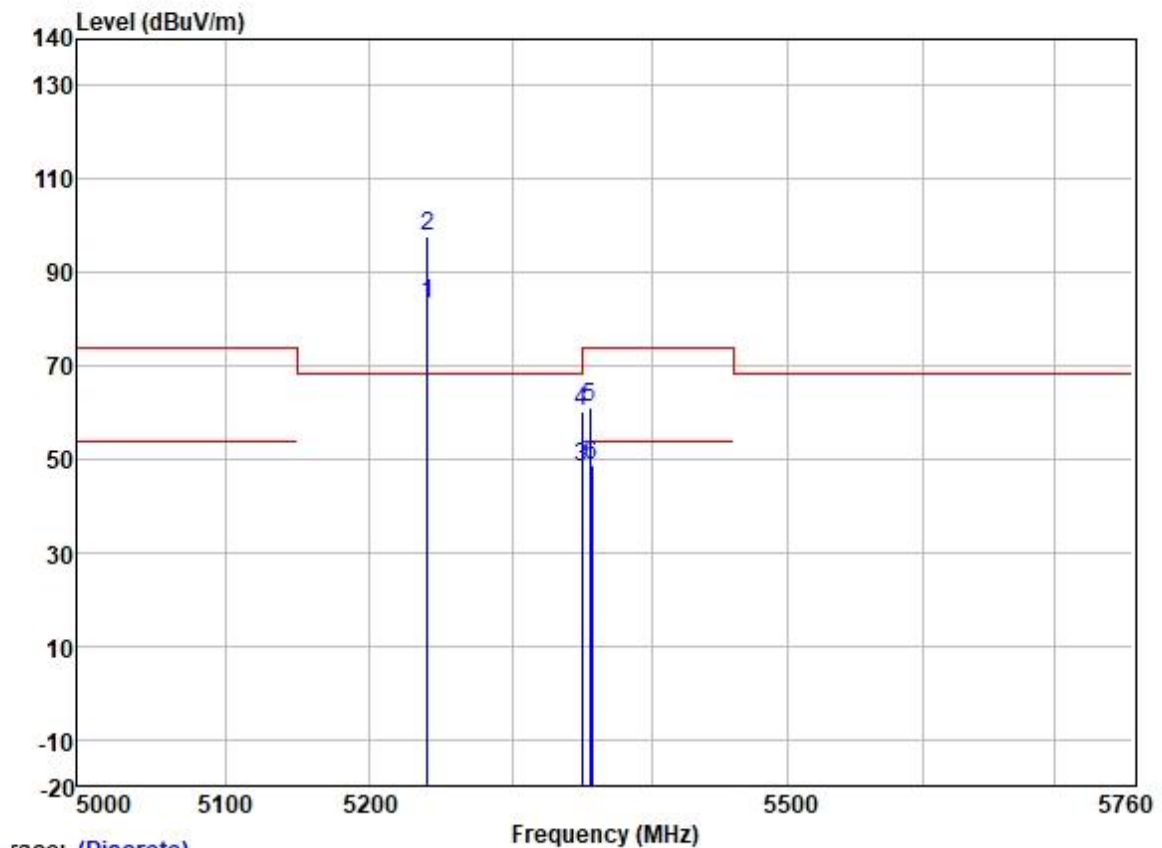
Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	87.76	31.75	5.74	36.87	88.38	-----	-----	HORIZONTAL Average
2	* 5240.000	104.15	31.75	5.74	36.87	104.77	68.20	36.57	HORIZONTAL Peak
3	5350.020	47.54	31.77	6.05	36.88	48.48	54.00	-5.52	HORIZONTAL Average
4	5350.020	59.81	31.77	6.05	36.88	60.75	74.00	-13.25	HORIZONTAL Peak
5	5354.754	47.83	31.78	6.03	36.88	48.76	54.00	-5.24	HORIZONTAL Average
6	5358.156	60.28	31.78	6.03	36.88	61.21	74.00	-12.79	HORIZONTAL Peak

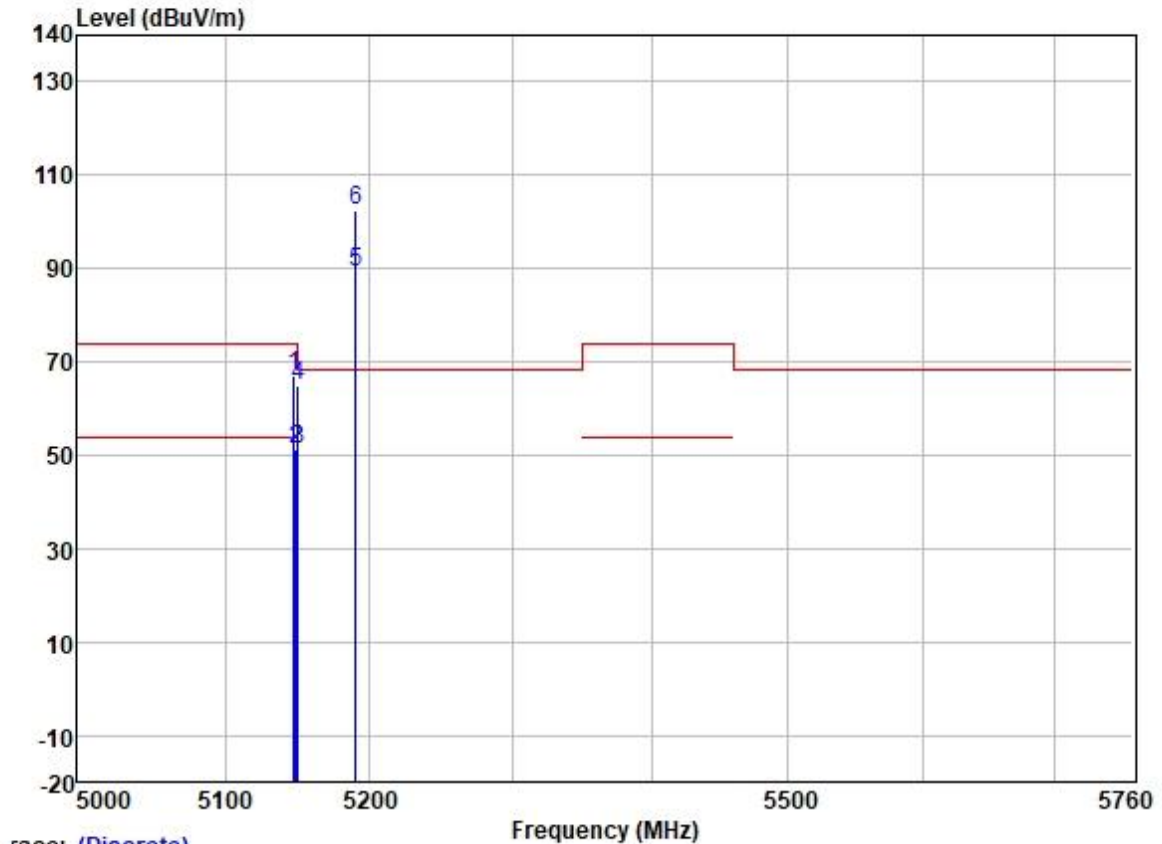
Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	82.64	31.75	5.74	36.87	83.26	-----	-----	VERTICAL Average
2 *	5240.000	96.93	31.75	5.74	36.87	97.55	68.20	29.35	VERTICAL Peak
3	5350.020	47.41	31.77	6.05	36.88	48.35	54.00	-5.65	VERTICAL Average
4	5350.020	59.14	31.77	6.05	36.88	60.08	74.00	-13.92	VERTICAL Peak
5	5355.179	60.25	31.78	6.03	36.88	61.18	74.00	-12.82	VERTICAL Peak
6	5356.738	47.62	31.78	6.03	36.88	48.55	54.00	-5.45	VERTICAL Average

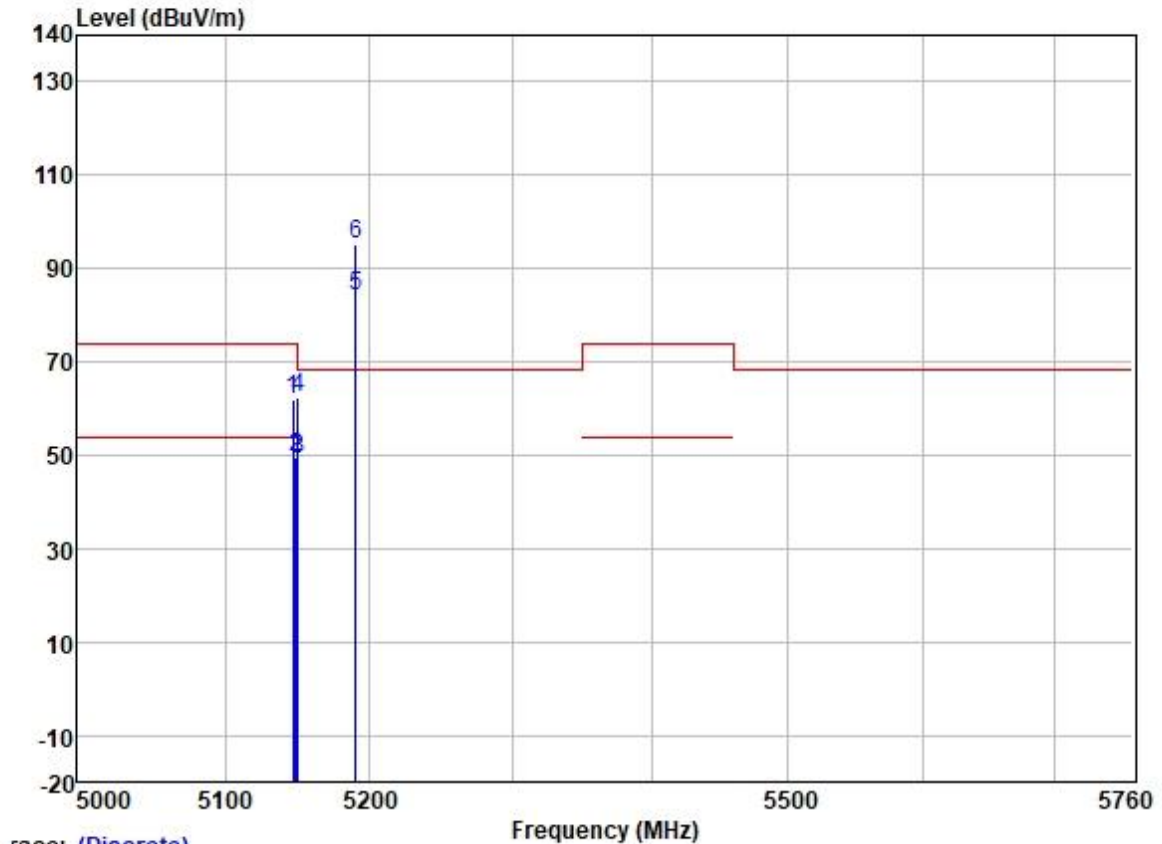
Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5147.187	66.66	31.72	5.62	36.86	67.14	74.00	-6.86	HORIZONTAL Peak
2	5148.743	50.77	31.72	5.62	36.86	51.25	54.00	-2.75	HORIZONTAL Average
3	5149.980	50.64	31.72	5.62	36.86	51.12	54.00	-2.88	HORIZONTAL Average
4	5149.980	64.55	31.72	5.62	36.86	65.03	74.00	-8.97	HORIZONTAL Peak
5	5190.000	88.64	31.73	5.60	36.87	89.10	-----	-----	HORIZONTAL Average
6 *	5190.000	102.08	31.73	5.60	36.87	102.54	68.20	34.34	HORIZONTAL Peak

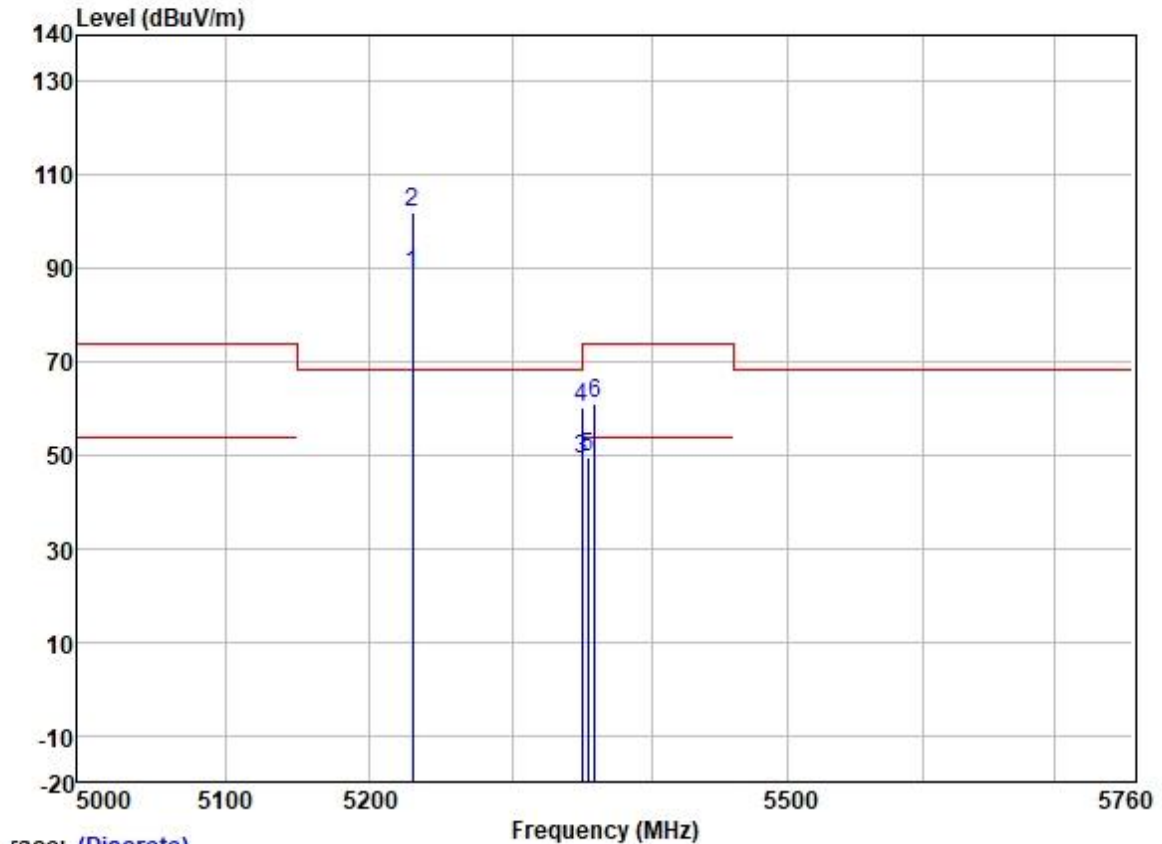
Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5146.349	61.31	31.72	5.62	36.86	61.79	74.00	-12.21	VERTICAL Peak
2	5148.982	48.98	31.72	5.62	36.86	49.46	54.00	-4.54	VERTICAL Average
3	5149.980	48.73	31.72	5.62	36.86	49.21	54.00	-4.79	VERTICAL Average
4	5149.980	61.74	31.72	5.62	36.86	62.22	74.00	-11.78	VERTICAL Peak
5	5190.000	83.67	31.73	5.60	36.87	84.13	-----	-----	VERTICAL Average
6 *	5190.000	94.68	31.73	5.60	36.87	95.14	68.20	26.94	VERTICAL Peak

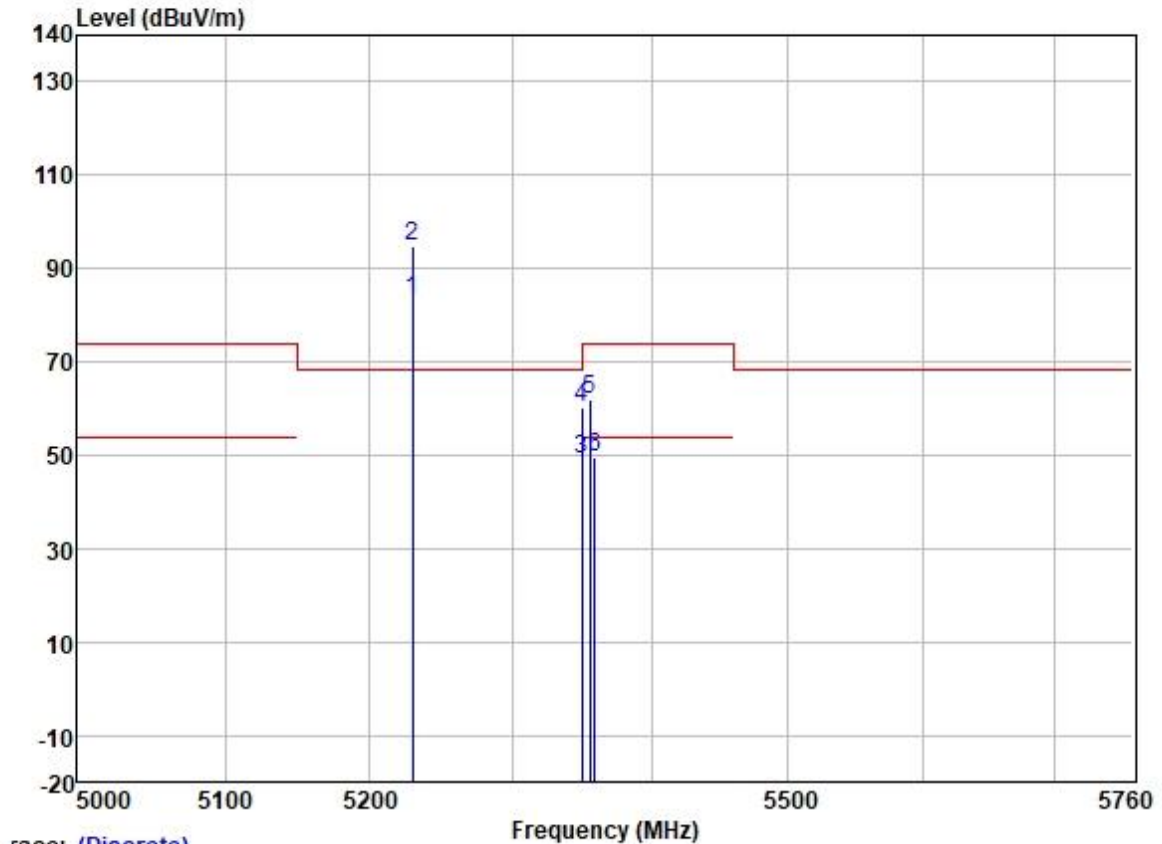
Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

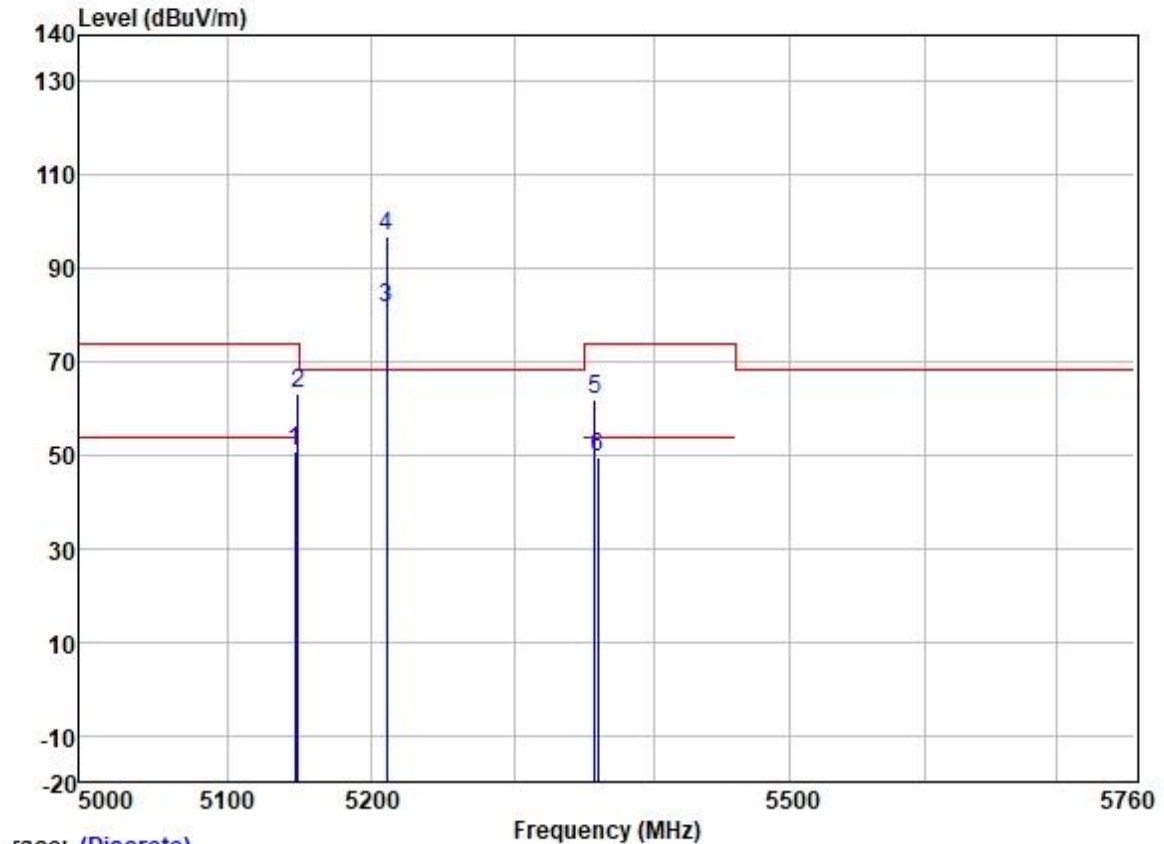
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	88.41	31.74	5.70	36.87	88.98	-----	-----	HORIZONTAL Average
2 *	5230.000	101.49	31.74	5.70	36.87	102.06	68.20	33.86	HORIZONTAL Peak
3	5350.020	48.22	31.77	6.05	36.88	49.16	54.00	-4.84	HORIZONTAL Average
4	5350.020	59.09	31.77	6.05	36.88	60.03	74.00	-13.97	HORIZONTAL Peak
5	5353.831	48.51	31.77	6.05	36.88	49.45	54.00	-4.55	HORIZONTAL Average
6	5358.701	60.26	31.78	6.03	36.88	61.19	74.00	-12.81	HORIZONTAL Peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)	Frequency (MHz)									
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark	
		Level	Factor	Loss	Factor	Level	Line			Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5230.000	82.79	31.74	5.70	36.87	83.36	-----	-----	VERTICAL	Average
2 *	5230.000	94.17	31.74	5.70	36.87	94.74	68.20	26.54	VERTICAL	Peak
3	5350.020	48.35	31.77	6.05	36.88	49.29	54.00	-4.71	VERTICAL	Average
4	5350.020	59.24	31.77	6.05	36.88	60.18	74.00	-13.82	VERTICAL	Peak
5	5355.616	60.97	31.78	6.03	36.88	61.90	74.00	-12.10	VERTICAL	Peak
6	5358.863	48.47	31.78	6.03	36.88	49.40	54.00	-4.60	VERTICAL	Average

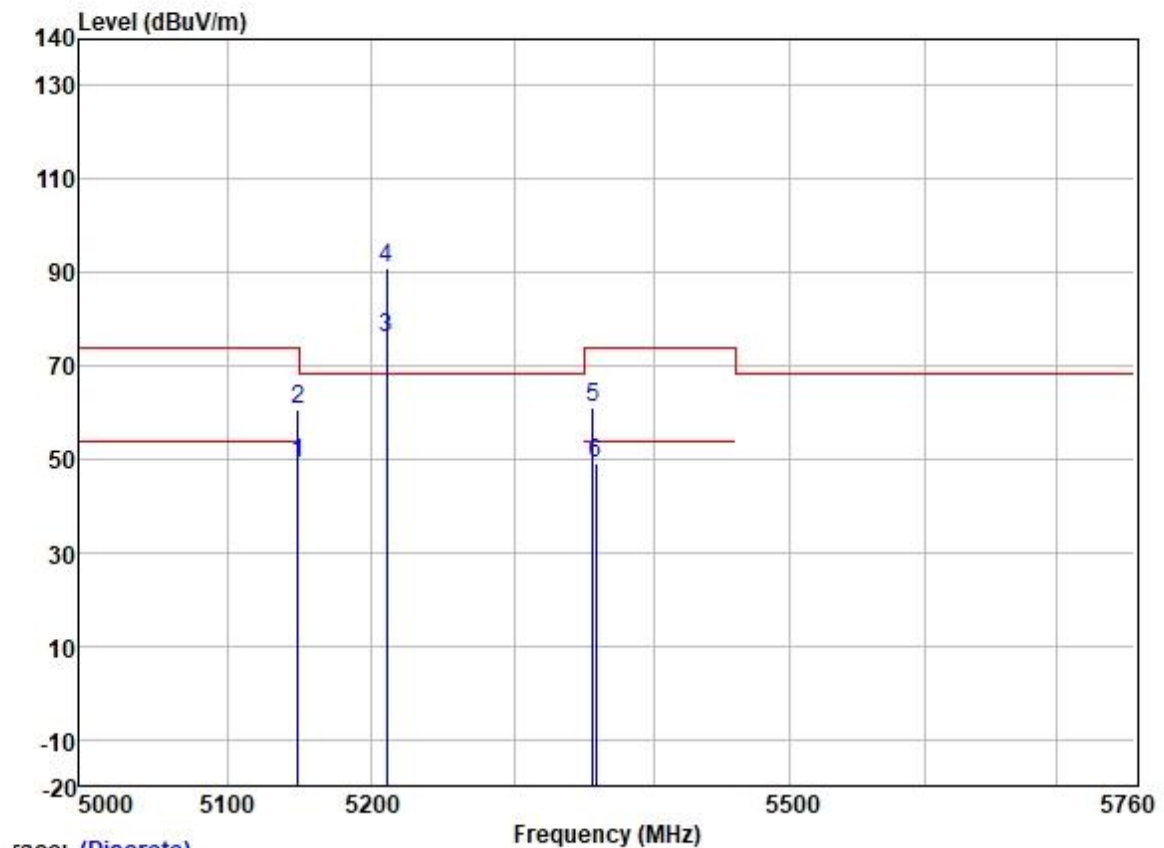
Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Trace: (Discrete)

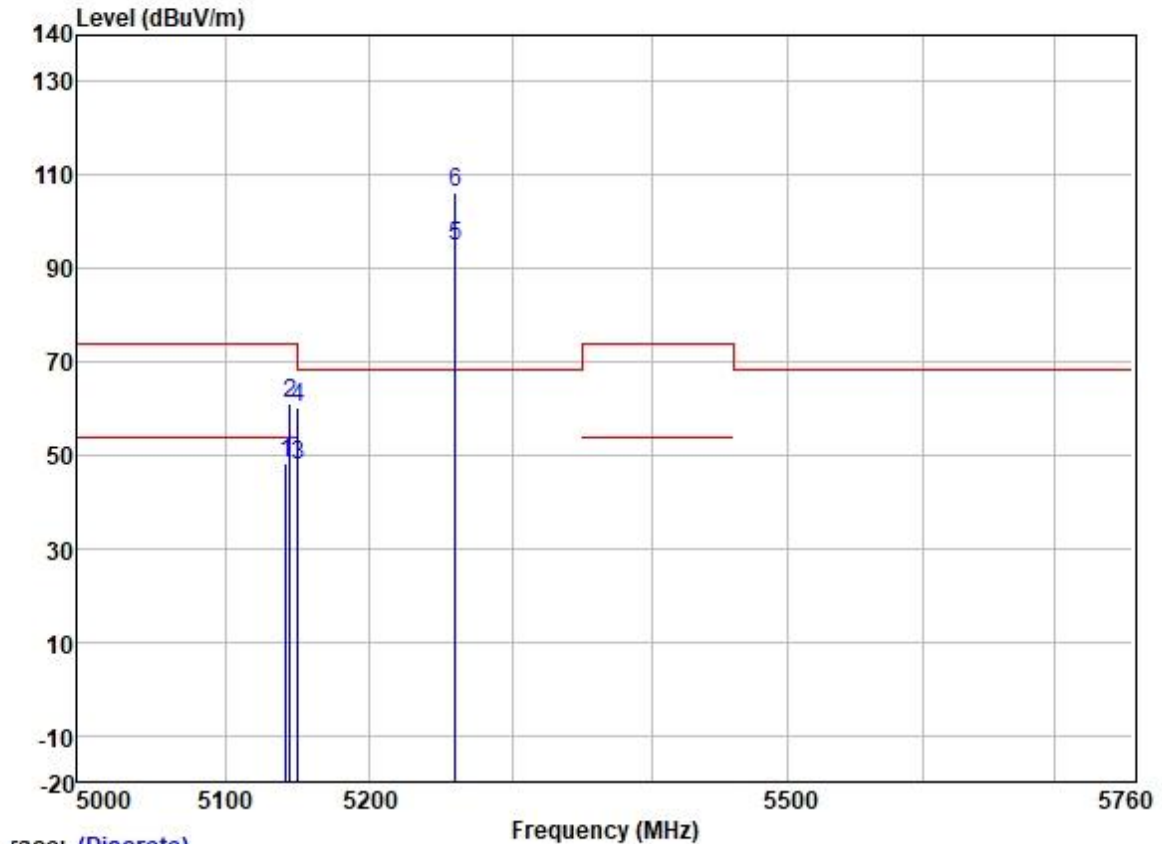
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5146.363	50.25	31.72	5.62	36.86	50.73	54.00	-3.27	HORIZONTAL Average
2	5148.410	62.81	31.72	5.62	36.86	63.29	74.00	-10.71	HORIZONTAL Peak
3	5210.000	81.23	31.74	5.65	36.87	81.75	-----	-----	HORIZONTAL Average
4 *	5210.000	96.56	31.74	5.65	36.87	97.08	68.20	28.88	HORIZONTAL Peak
5	5357.868	60.81	31.78	6.03	36.88	61.74	74.00	-12.26	HORIZONTAL Peak
6	5359.733	48.73	31.78	6.03	36.88	49.66	54.00	-4.34	HORIZONTAL Average

Test Mode: 00; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



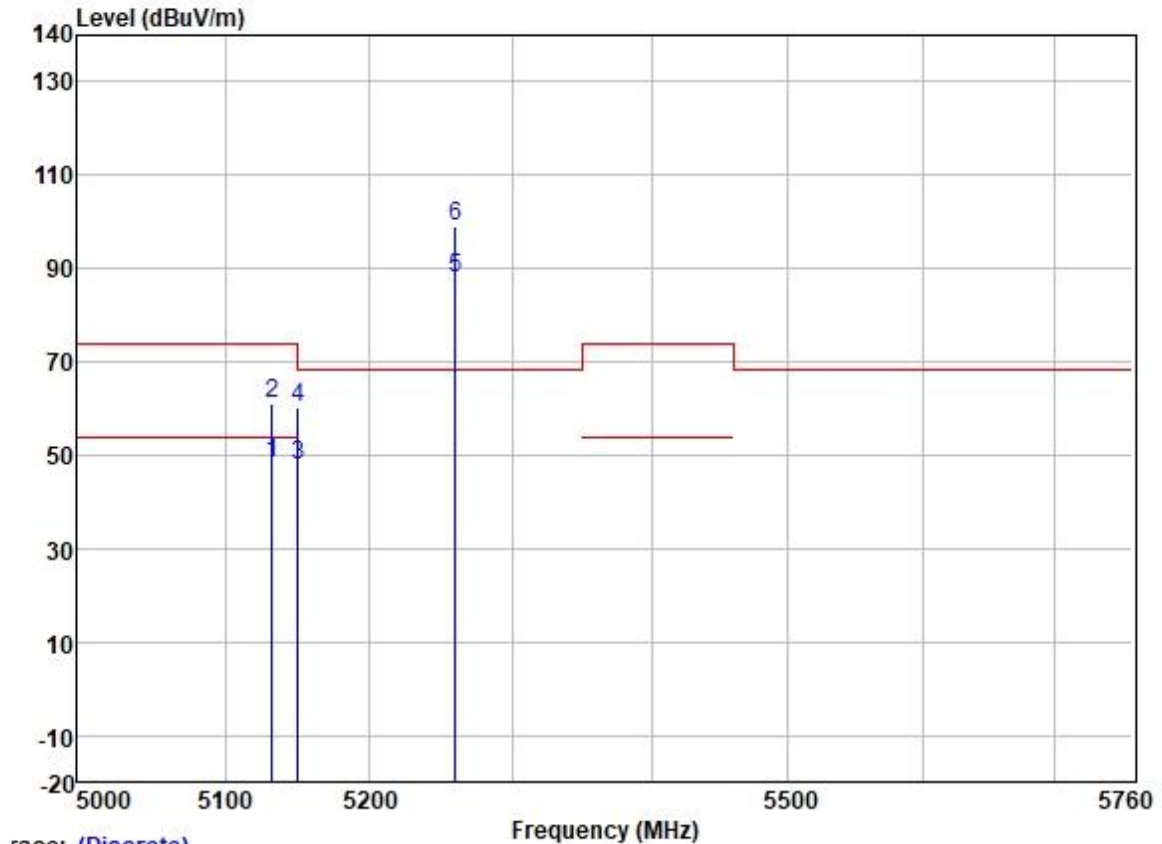
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5148.410	48.73	31.72	5.62	36.86	49.21	54.00	-4.79	VERTICAL Average
2	5148.410	60.26	31.72	5.62	36.86	60.74	74.00	-13.26	VERTICAL Peak
3	5210.000	75.53	31.74	5.65	36.87	76.05	-----	-----	VERTICAL Average
4 *	5210.000	90.26	31.74	5.65	36.87	90.78	68.20	22.58	VERTICAL Peak
5	5356.270	60.04	31.78	6.03	36.88	60.97	74.00	-13.03	VERTICAL Peak
6	5358.667	48.37	31.78	6.03	36.88	49.30	54.00	-4.70	VERTICAL Average

Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



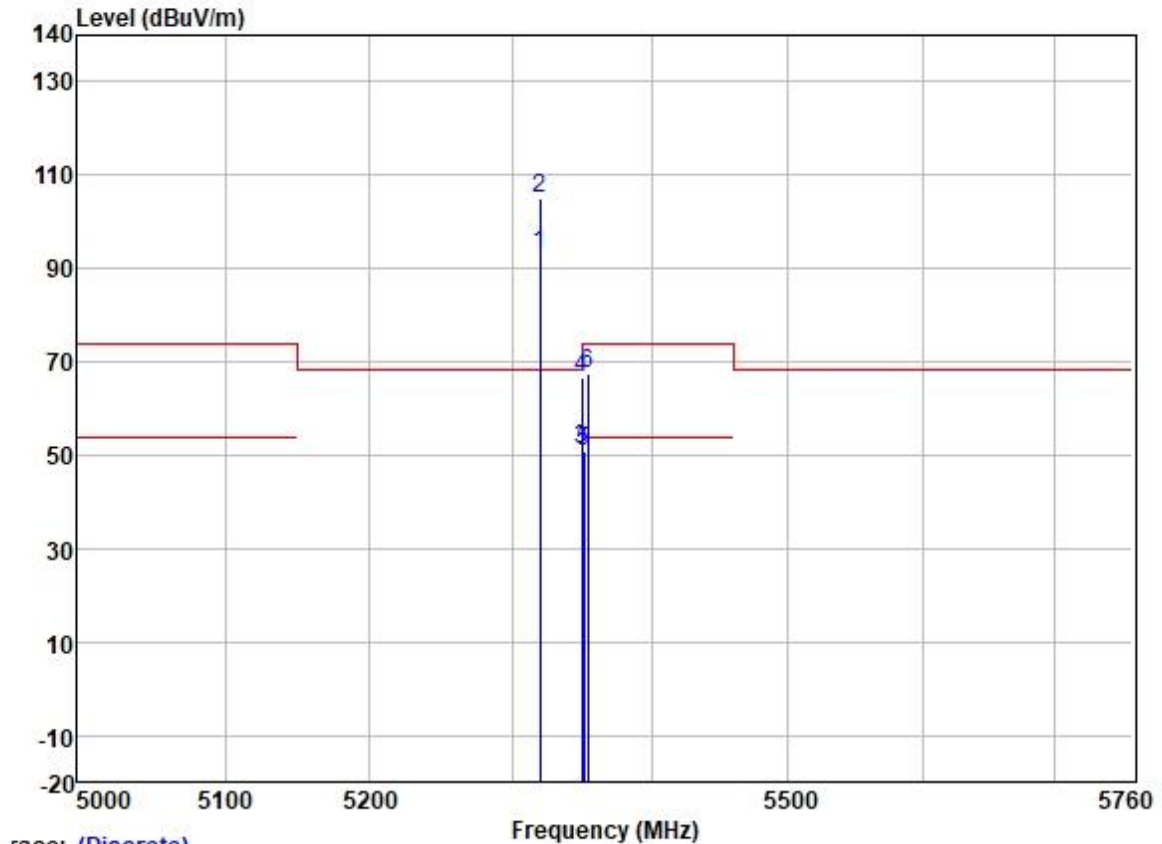
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5142.097	47.66	31.72	5.62	36.86	48.14	54.00	-5.86	HORIZONTAL Average
2	5144.417	60.61	31.72	5.62	36.86	61.09	74.00	-12.91	HORIZONTAL Peak
3	5149.980	47.57	31.72	5.62	36.86	48.05	54.00	-5.95	HORIZONTAL Average
4	5149.980	59.89	31.72	5.62	36.86	60.37	74.00	-13.63	HORIZONTAL Peak
5	5260.000	94.08	31.75	5.77	36.87	94.73	-----	-----	HORIZONTAL Average
6 *	5260.000	105.61	31.75	5.77	36.87	106.26	68.20	38.06	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5131.941	47.72	31.72	5.63	36.86	48.21	54.00	-5.79	VERTICAL
2	5131.941	60.43	31.72	5.63	36.86	60.92	74.00	-13.08	VERTICAL
3	5149.980	47.47	31.72	5.62	36.86	47.95	54.00	-6.05	VERTICAL
4	5149.980	59.92	31.72	5.62	36.86	60.40	74.00	-13.60	VERTICAL
5	5260.000	87.49	31.75	5.77	36.87	88.14	-----	-----	VERTICAL
6 *	5260.000	98.31	31.75	5.77	36.87	98.96	68.20	30.76	VERTICAL

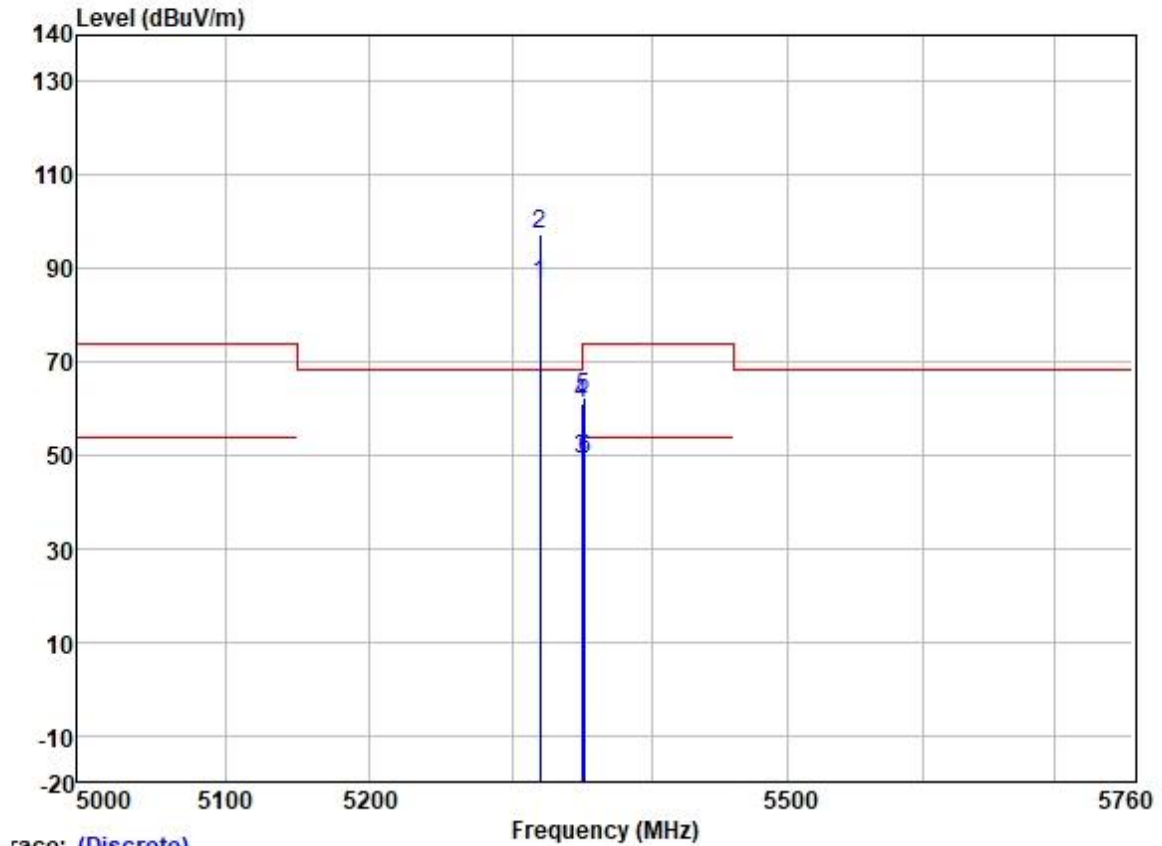
Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

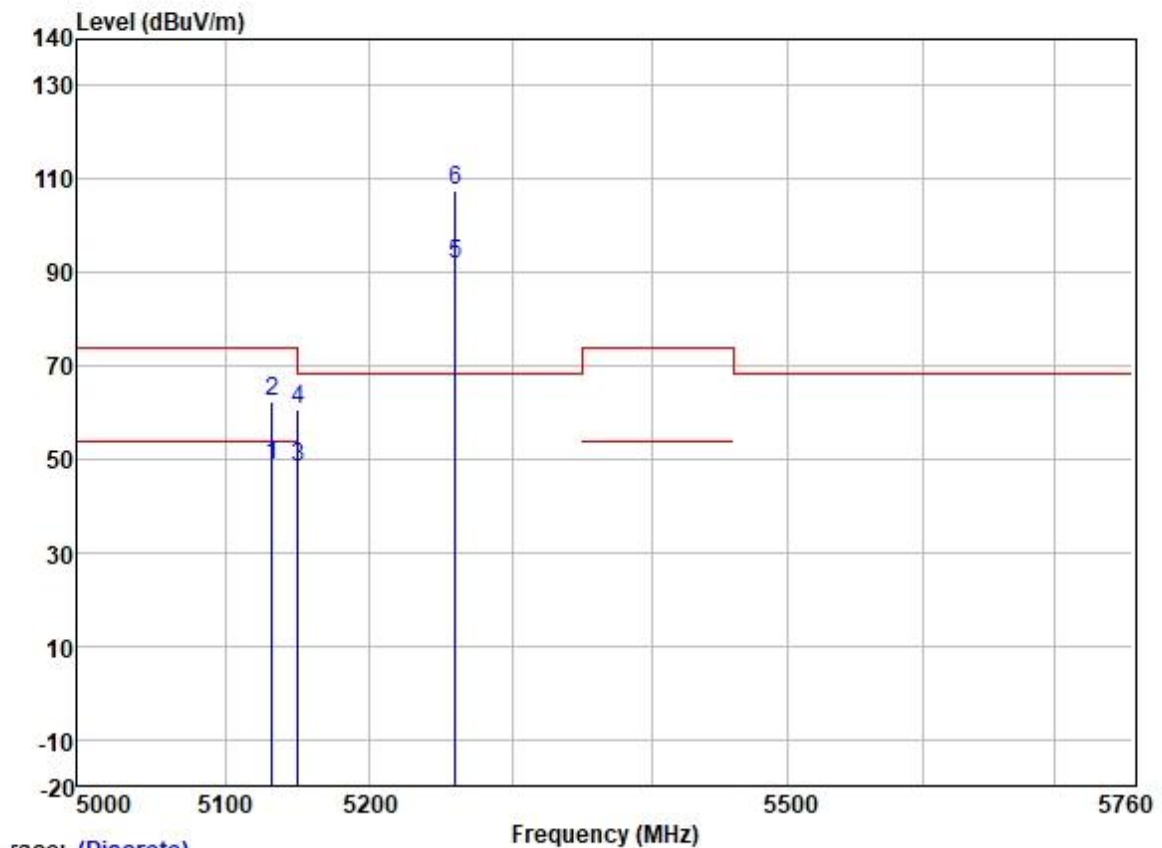
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5320.000	92.15	31.77	6.08	36.88	93.12	-----	-----	HORIZONTAL Average
2 *	5320.000	103.96	31.77	6.08	36.88	104.93	68.20	36.73	HORIZONTAL Peak
3	5350.020	50.35	31.77	6.05	36.88	51.29	54.00	-2.71	HORIZONTAL Average
4	5350.020	65.51	31.77	6.05	36.88	66.45	74.00	-7.55	HORIZONTAL Peak
5	5351.367	50.07	31.77	6.05	36.88	51.01	54.00	-2.99	HORIZONTAL Average
6	5354.068	66.62	31.77	6.05	36.88	67.56	74.00	-6.44	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5320.000	85.50	31.77	6.08	36.88	86.47	-----	-----	VERTICAL	Average
2 *	5320.000	96.56	31.77	6.08	36.88	97.53	68.20	29.33	VERTICAL	Peak
3	5350.020	48.13	31.77	6.05	36.88	49.07	54.00	-4.93	VERTICAL	Average
4	5350.020	59.92	31.77	6.05	36.88	60.86	74.00	-13.14	VERTICAL	Peak
5	5351.267	61.54	31.77	6.05	36.88	62.48	74.00	-11.52	VERTICAL	Peak
6	5352.167	48.05	31.77	6.05	36.88	48.99	54.00	-5.01	VERTICAL	Average

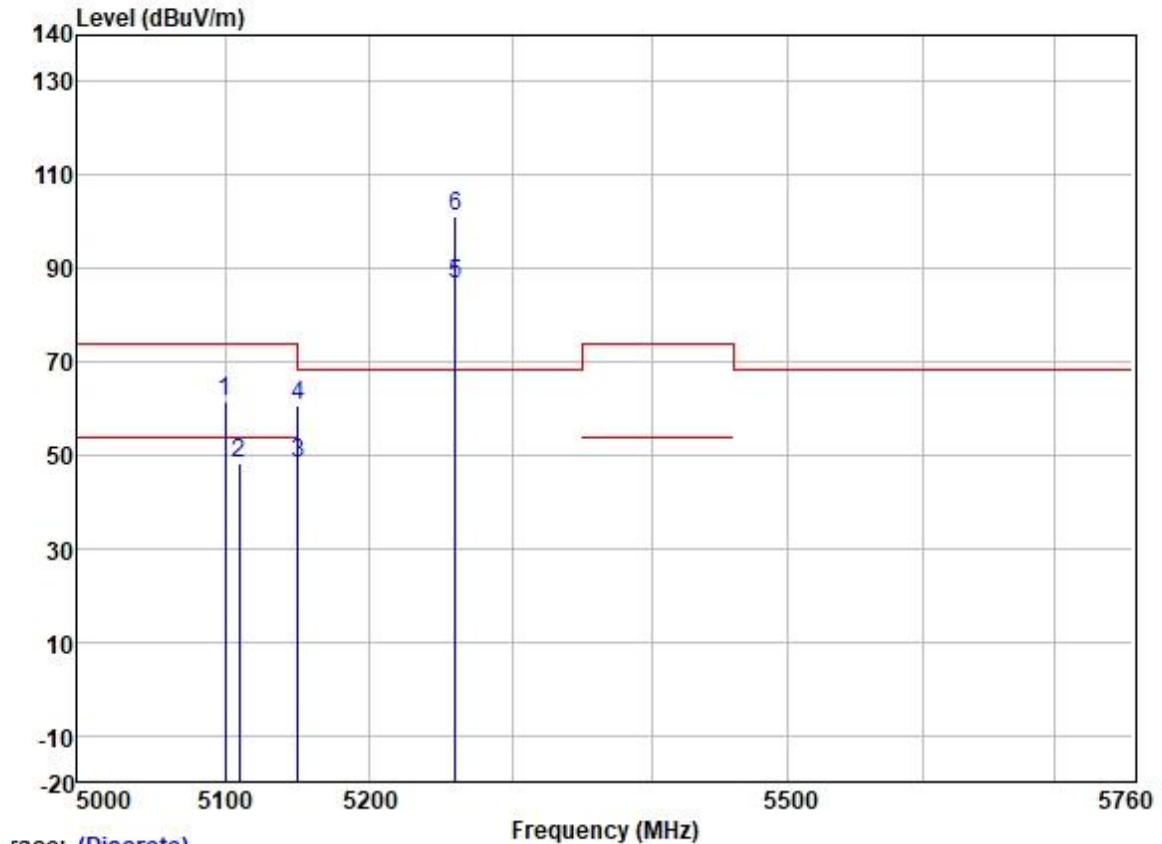
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

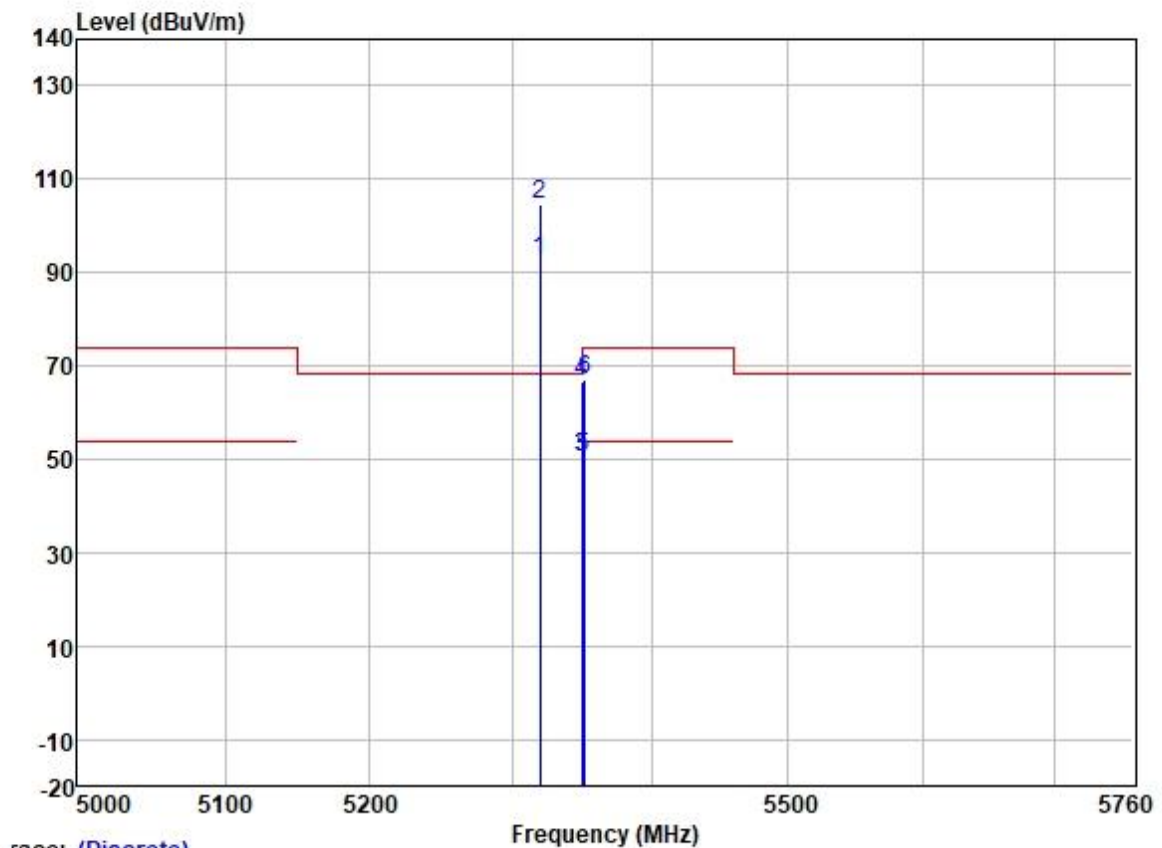
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5131.941	48.15	31.72	5.63	36.86	48.64	54.00	-5.36	HORIZONTAL Average
2	5131.941	62.01	31.72	5.63	36.86	62.50	74.00	-11.50	HORIZONTAL Peak
3	5149.980	47.99	31.72	5.62	36.86	48.47	54.00	-5.53	HORIZONTAL Average
4	5149.980	60.12	31.72	5.62	36.86	60.60	74.00	-13.40	HORIZONTAL Peak
5	5260.000	91.10	31.75	5.77	36.87	91.75	-----	-----	HORIZONTAL Average
6 *	5260.000	106.79	31.75	5.77	36.87	107.44	68.20	39.24	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna Level	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	5100.354	60.91	31.72	5.65	36.86	61.42	74.00	-12.58	VERTICAL	Peak
2	5109.562	47.66	31.72	5.65	36.86	48.17	54.00	-5.83	VERTICAL	Average
3	5149.980	47.59	31.72	5.62	36.86	48.07	54.00	-5.93	VERTICAL	Average
4	5149.980	60.33	31.72	5.62	36.86	60.81	74.00	-13.19	VERTICAL	Peak
5	5260.000	86.03	31.75	5.77	36.87	86.68	-----	-----	VERTICAL	Average
6 *	5260.000	100.70	31.75	5.77	36.87	101.35	68.20	33.15	VERTICAL	Peak

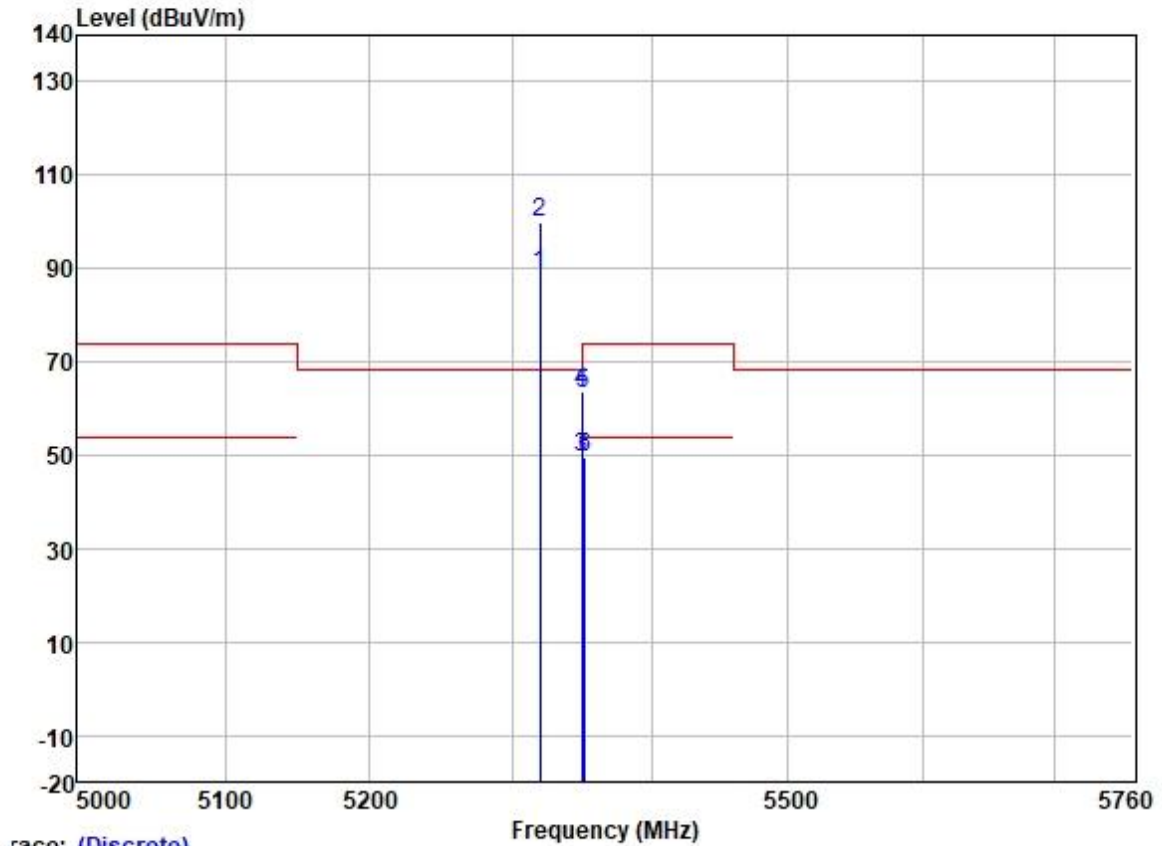
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

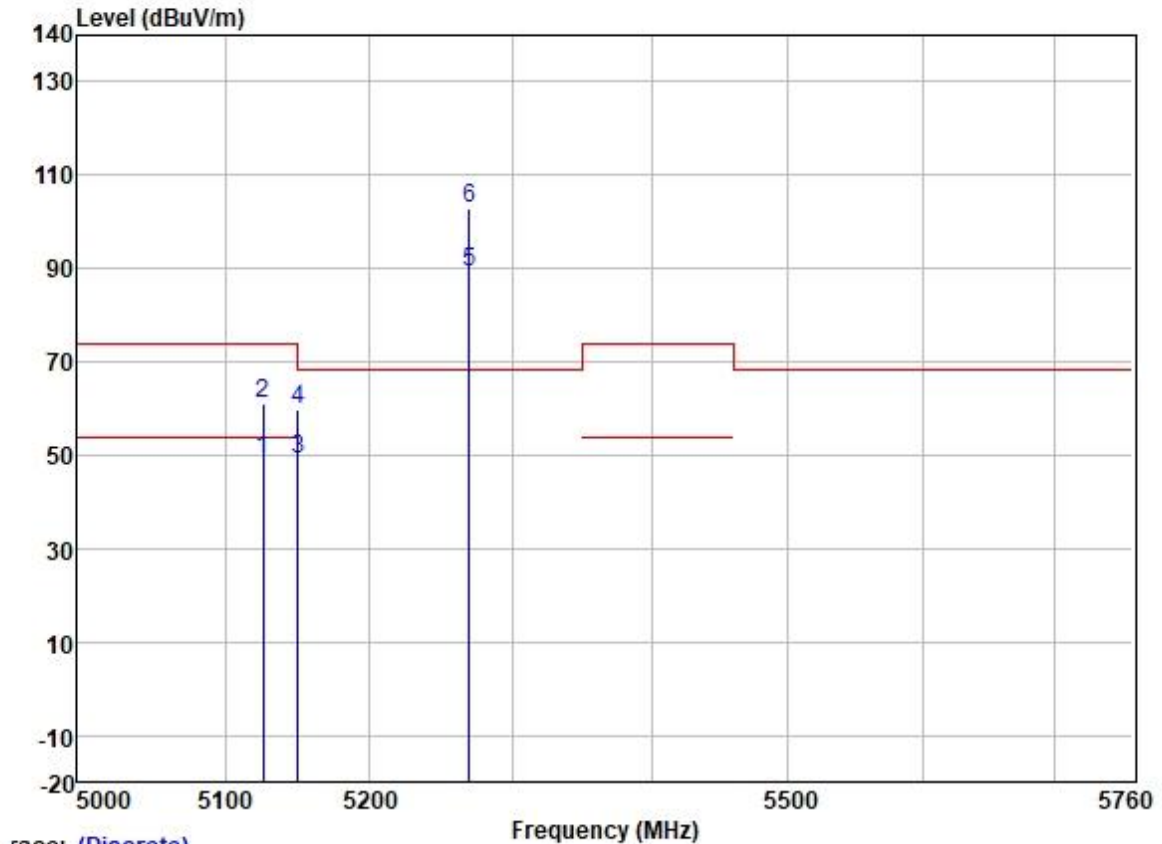
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5320.000	91.53	31.77	6.08	36.88	92.50	-----	-----	HORIZONTAL	Average
2 *	5320.000	103.77	31.77	6.08	36.88	104.74	68.20	36.54	HORIZONTAL	Peak
3	5350.020	49.48	31.77	6.05	36.88	50.42	54.00	-3.58	HORIZONTAL	Average
4	5350.020	65.74	31.77	6.05	36.88	66.68	74.00	-7.32	HORIZONTAL	Peak
5	5350.667	49.47	31.77	6.05	36.88	50.41	54.00	-3.59	HORIZONTAL	Average
6	5351.667	66.23	31.77	6.05	36.88	67.17	74.00	-6.83	HORIZONTAL	Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5320.000	87.63	31.77	6.08	36.88	88.60	-----	-----	VERTICAL	Average
2 *	5320.000	98.92	31.77	6.08	36.88	99.89	68.20	31.69	VERTICAL	Peak
3	5350.020	48.46	31.77	6.05	36.88	49.40	54.00	-4.60	VERTICAL	Average
4	5350.020	62.58	31.77	6.05	36.88	63.52	74.00	-10.48	VERTICAL	Peak
5	5350.667	62.28	31.77	6.05	36.88	63.22	74.00	-10.78	VERTICAL	Peak
6	5351.566	48.55	31.77	6.05	36.88	49.49	54.00	-4.51	VERTICAL	Average

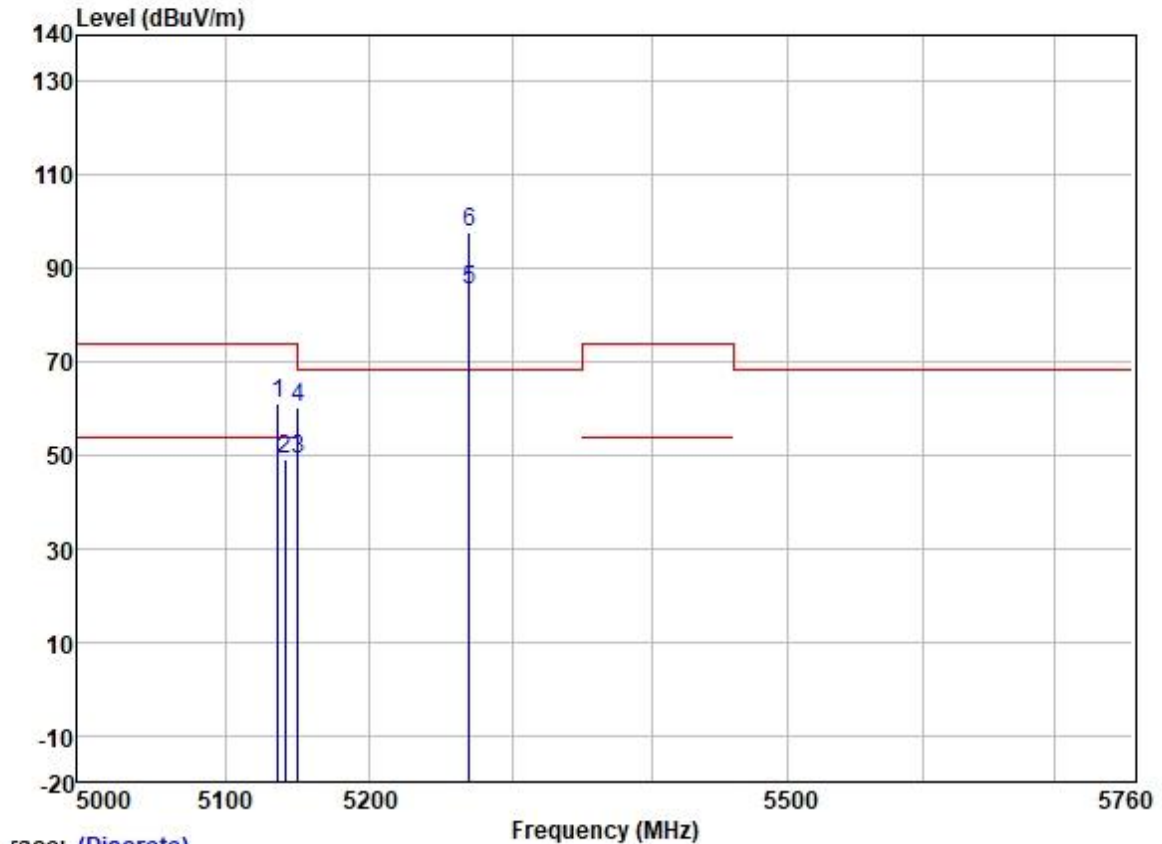
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

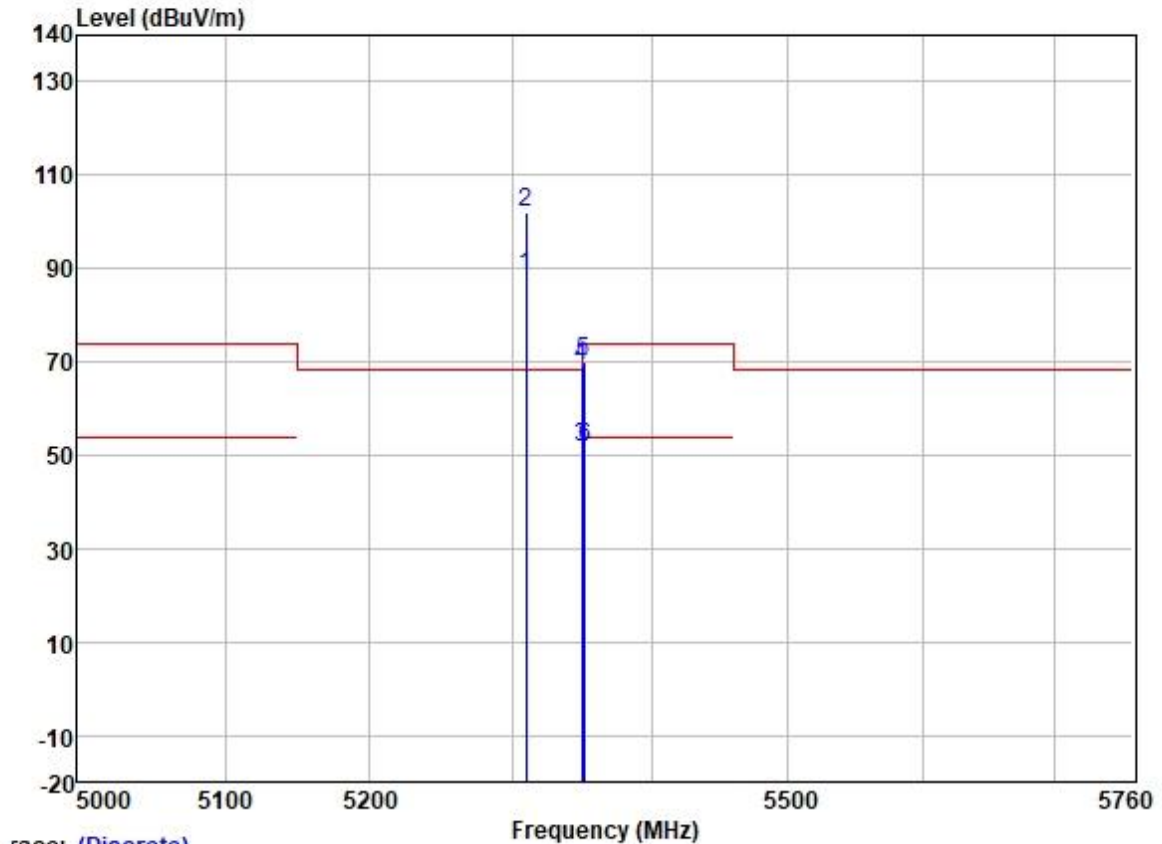
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5126.159	48.63	31.72	5.64	36.86	49.13	54.00	-4.87	HORIZONTAL Average
2	5126.159	60.58	31.72	5.64	36.86	61.08	74.00	-12.92	HORIZONTAL Peak
3	5149.980	48.45	31.72	5.62	36.86	48.93	54.00	-5.07	HORIZONTAL Average
4	5149.980	59.27	31.72	5.62	36.86	59.75	74.00	-14.25	HORIZONTAL Peak
5	5270.000	88.37	31.75	5.80	36.87	89.05	-----	-----	HORIZONTAL Average
6 *	5270.000	102.01	31.75	5.80	36.87	102.69	68.20	34.49	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



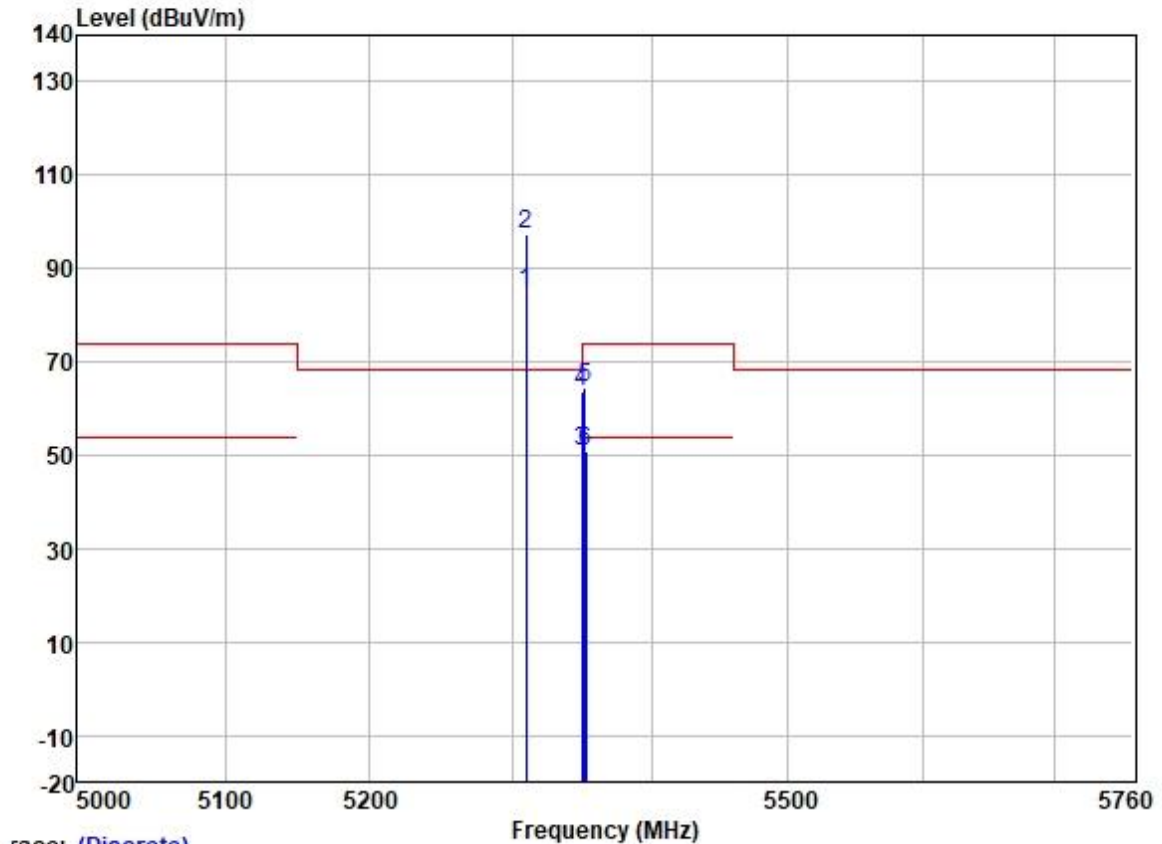
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5136.422	60.59	31.72	5.63	36.86	61.08	74.00	-12.92	VERTICAL
2	5141.167	48.62	31.72	5.63	36.86	49.11	54.00	-4.89	VERTICAL
3	5149.980	48.72	31.72	5.62	36.86	49.20	54.00	-4.80	VERTICAL
4	5149.980	59.75	31.72	5.62	36.86	60.23	74.00	-13.77	VERTICAL
5	5270.000	84.75	31.75	5.80	36.87	85.43	-----	-----	VERTICAL
6 *	5270.000	97.08	31.75	5.80	36.87	97.76	68.20	29.56	VERTICAL

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)	Frequency (MHz)								
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor	Level	Line		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5310.000	87.50	31.77	6.08	36.87	88.48	-----	-----	HORIZONTAL Average
2 *	5310.000	100.84	31.77	6.08	36.87	101.82	68.20	33.62	HORIZONTAL Peak
3	5350.020	50.87	31.77	6.05	36.88	51.81	54.00	-2.19	HORIZONTAL Average
4	5350.020	68.05	31.77	6.05	36.88	68.99	74.00	-5.01	HORIZONTAL Peak
5	5351.315	69.04	31.77	6.05	36.88	69.98	74.00	-4.02	HORIZONTAL Peak
6	5351.556	50.54	31.77	6.05	36.88	51.48	54.00	-2.52	HORIZONTAL Average

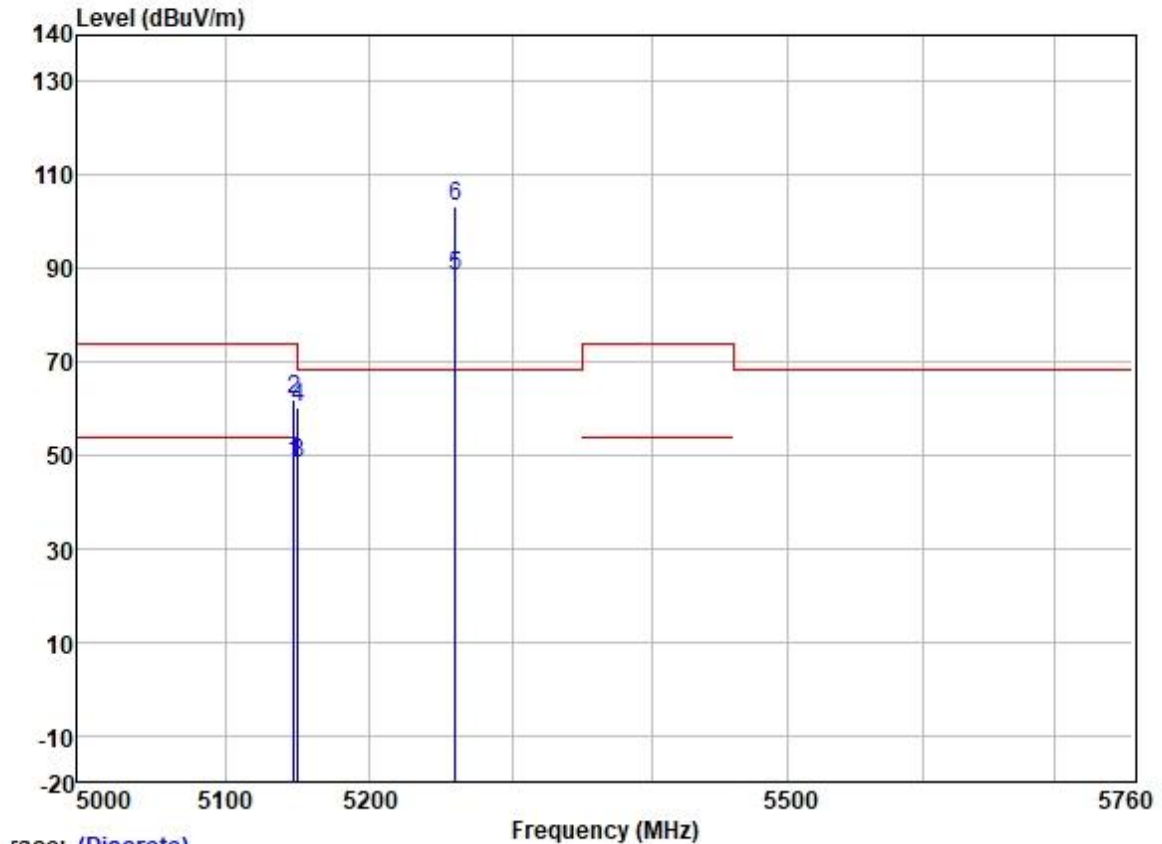
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

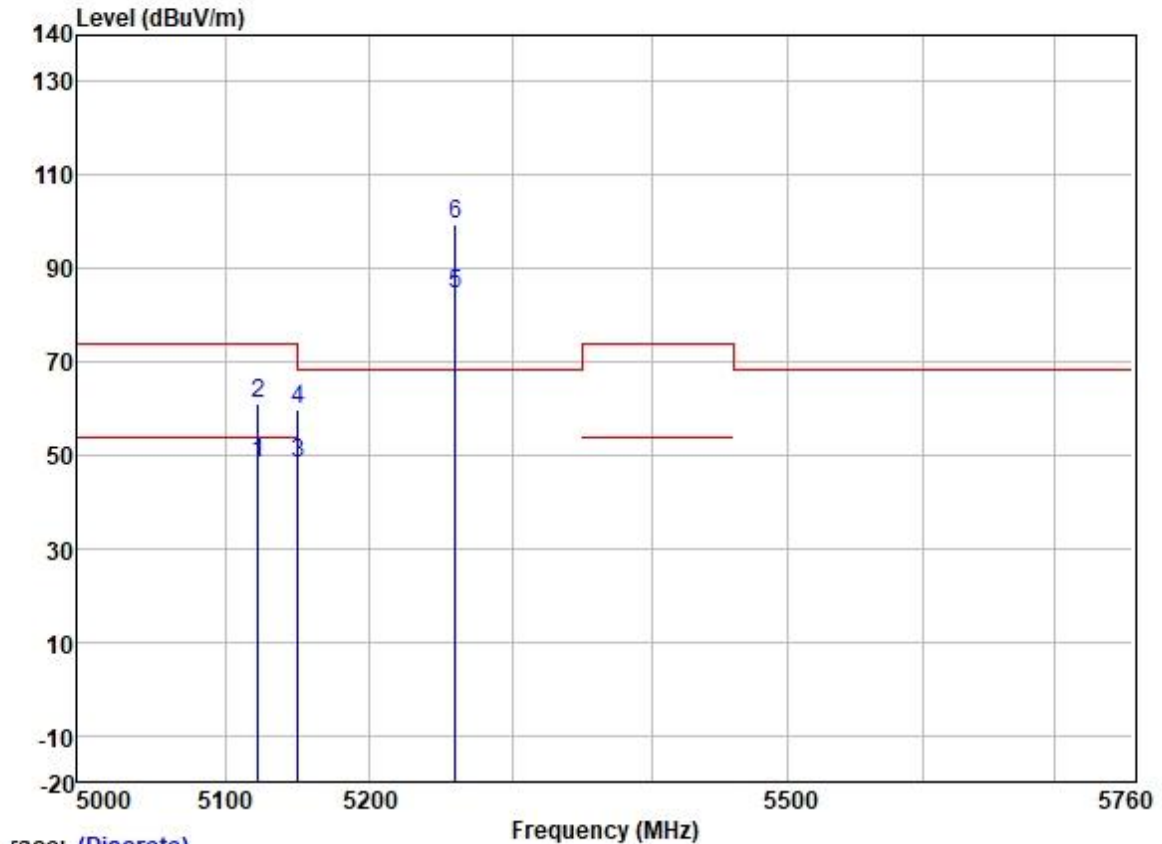
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5310.000	83.77	31.77	6.08	36.87	84.75	-----	-----	VERTICAL Average
2 *	5310.000	96.33	31.77	6.08	36.87	97.31	68.20	29.11	VERTICAL Peak
3	5350.020	49.69	31.77	6.05	36.88	50.63	54.00	-3.37	VERTICAL Average
4	5350.020	62.76	31.77	6.05	36.88	63.70	74.00	-10.30	VERTICAL Peak
5	5352.157	63.58	31.77	6.05	36.88	64.52	74.00	-9.48	VERTICAL Peak
6	5352.518	49.94	31.77	6.05	36.88	50.88	54.00	-3.12	VERTICAL Average

Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



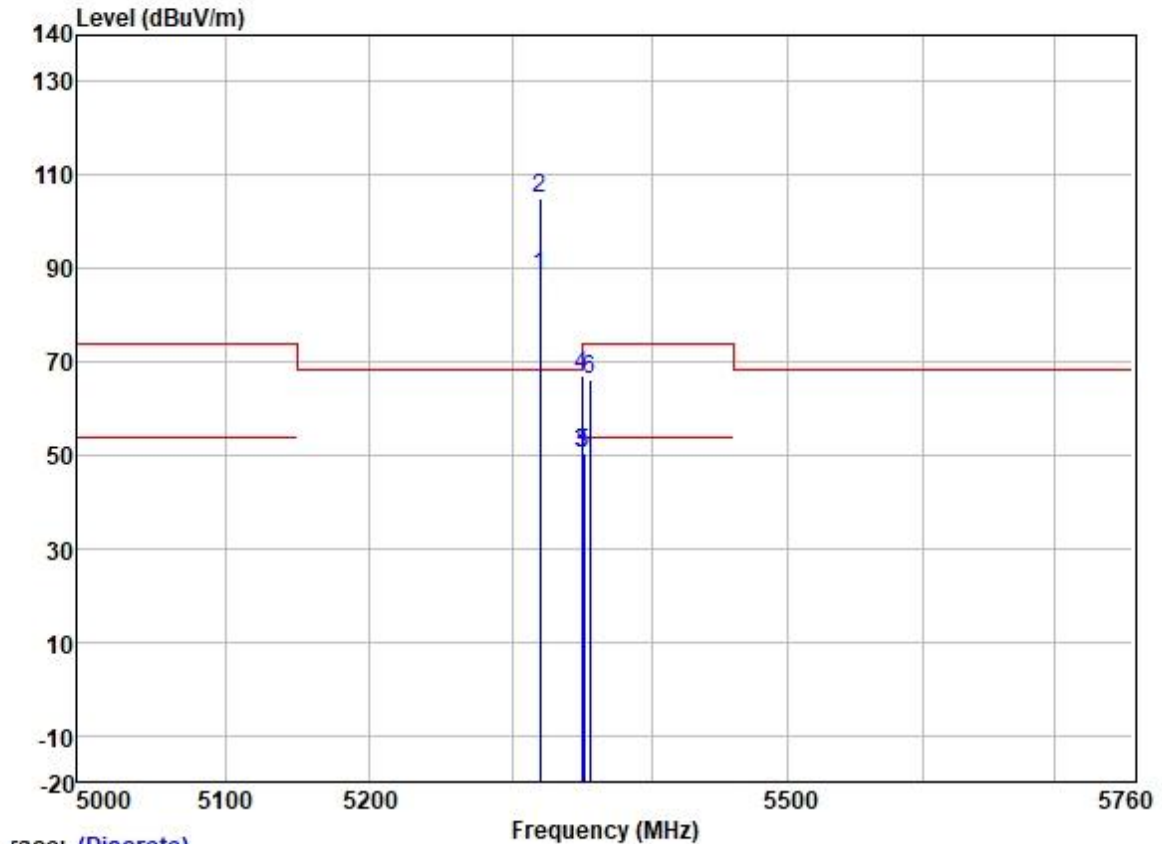
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5147.272	47.76	31.72	5.62	36.86	48.24	54.00	-5.76	HORIZONTAL Average
2	5147.272	61.27	31.72	5.62	36.86	61.75	74.00	-12.25	HORIZONTAL Peak
3	5149.980	47.75	31.72	5.62	36.86	48.23	54.00	-5.77	HORIZONTAL Average
4	5149.980	59.73	31.72	5.62	36.86	60.21	74.00	-13.79	HORIZONTAL Peak
5	5260.000	87.60	31.75	5.77	36.87	88.25	-----	-----	HORIZONTAL Average
6 *	5260.000	102.46	31.75	5.77	36.87	103.11	68.20	34.91	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



		Freq	ReadAntenna Level 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		5122.871	47.73	31.72	5.64	36.86	48.23	54.00	-5.77	VERTICAL	Average
2		5122.871	60.51	31.72	5.64	36.86	61.01	74.00	-12.99	VERTICAL	Peak
3		5149.980	47.79	31.72	5.62	36.86	48.27	54.00	-5.73	VERTICAL	Average
4		5149.980	59.19	31.72	5.62	36.86	59.67	74.00	-14.33	VERTICAL	Peak
5		5260.000	83.91	31.75	5.77	36.87	84.56	-----	-----	VERTICAL	Average
6	*	5260.000	98.62	31.75	5.77	36.87	99.27	68.20	31.07	VERTICAL	Peak

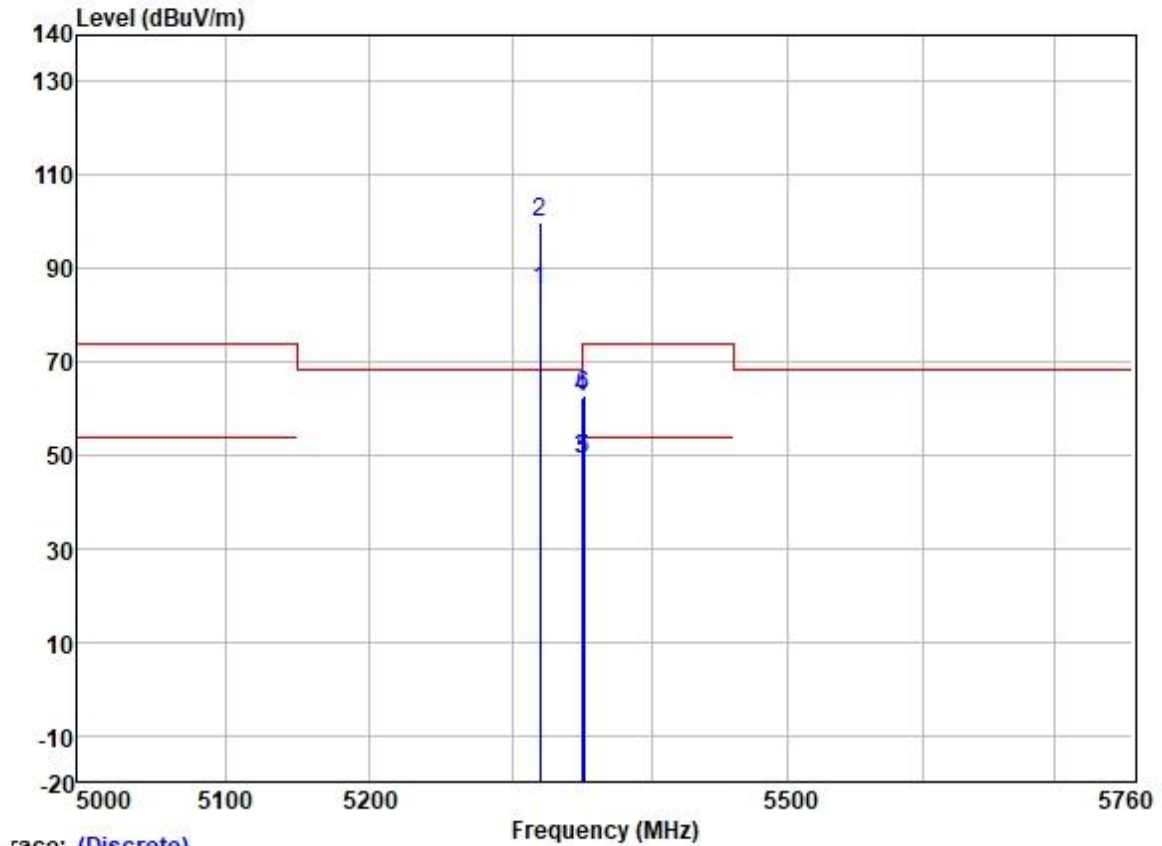
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5320.000	87.42	31.77	6.08	36.88	88.39	-----	-----	HORIZONTAL Average
2 *	5320.000	103.90	31.77	6.08	36.88	104.87	68.20	36.67	HORIZONTAL Peak
3	5350.020	49.32	31.77	6.05	36.88	50.26	54.00	-3.74	HORIZONTAL Average
4	5350.020	66.06	31.77	6.05	36.88	67.00	74.00	-7.00	HORIZONTAL Peak
5	5350.966	49.41	31.77	6.05	36.88	50.35	54.00	-3.65	HORIZONTAL Average
6	5355.669	65.07	31.78	6.03	36.88	66.00	74.00	-8.00	HORIZONTAL Peak

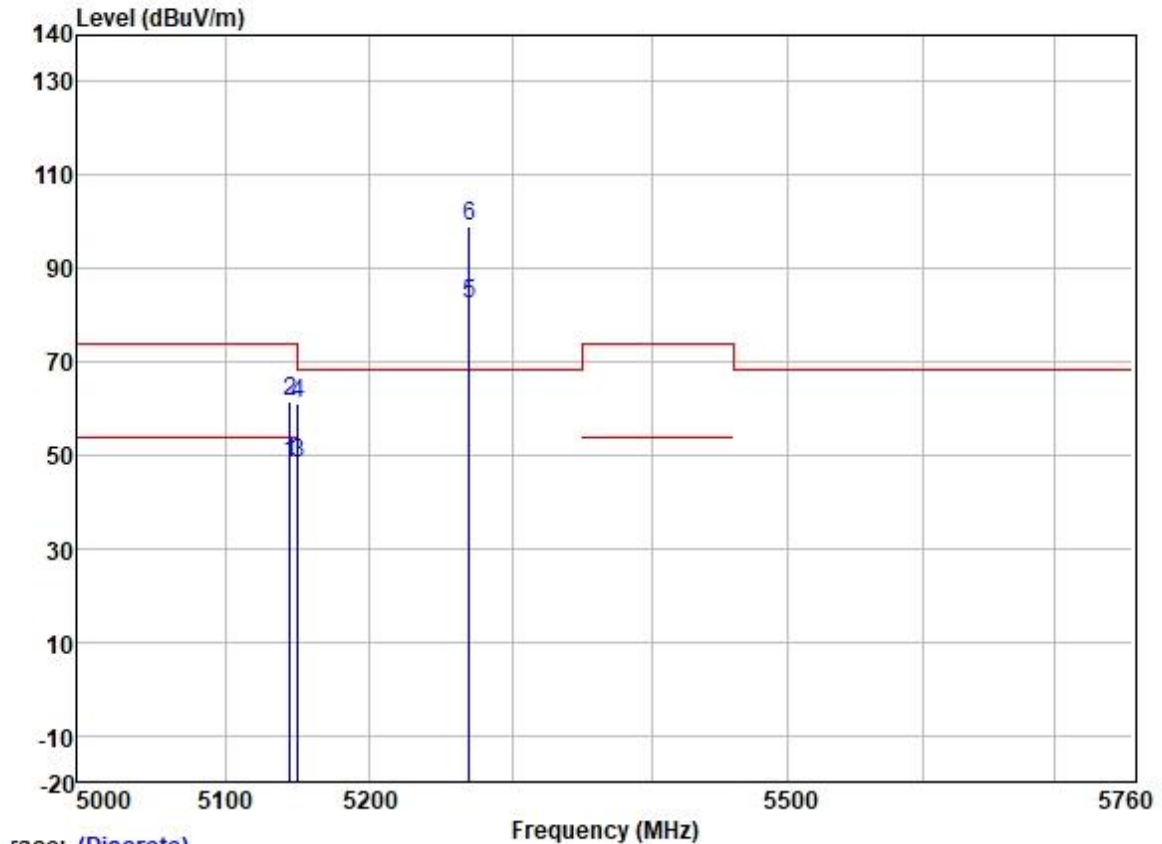
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

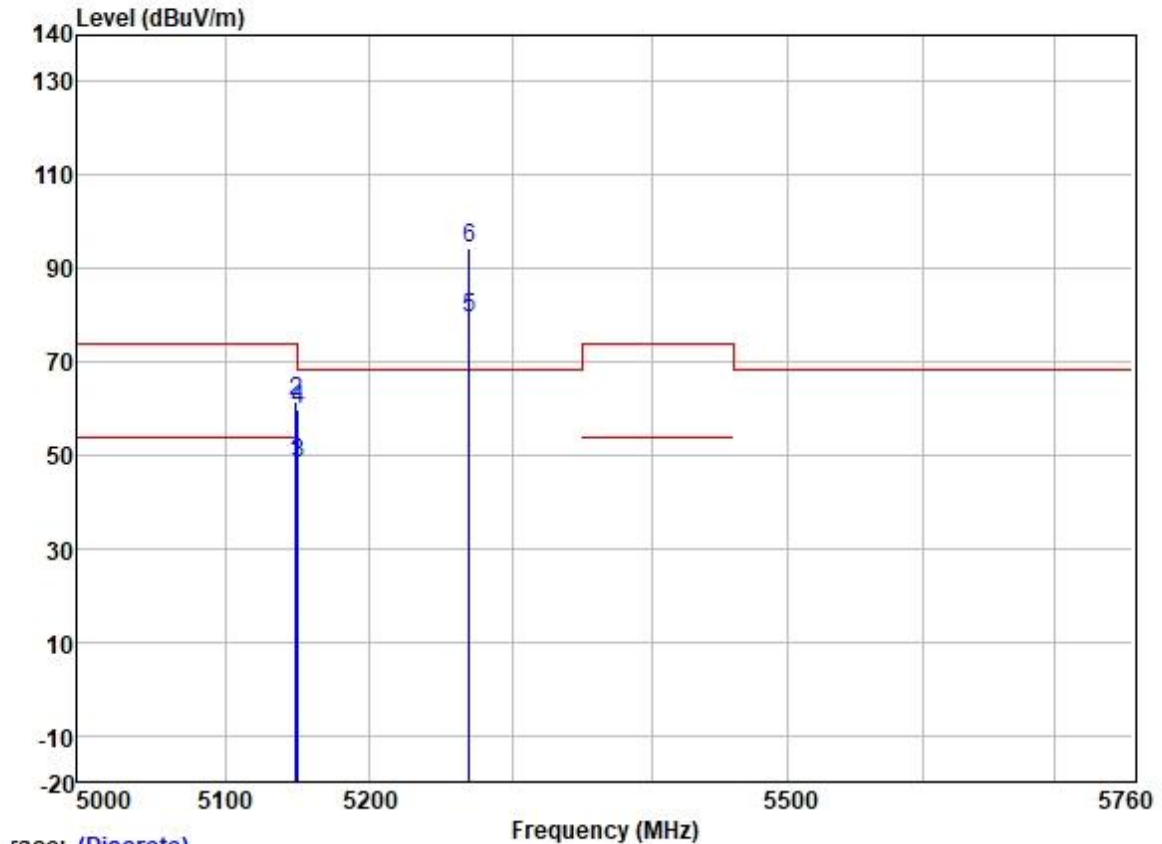
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5320.000	84.25	31.77	6.08	36.88	85.22	-----	-----	VERTICAL Average
2 *	5320.000	98.95	31.77	6.08	36.88	99.92	68.20	31.72	VERTICAL Peak
3	5350.020	48.29	31.77	6.05	36.88	49.23	54.00	-4.77	VERTICAL Average
4	5350.020	61.52	31.77	6.05	36.88	62.46	74.00	-11.54	VERTICAL Peak
5	5350.566	48.28	31.77	6.05	36.88	49.22	54.00	-4.78	VERTICAL Average
6	5350.966	61.97	31.77	6.05	36.88	62.91	74.00	-11.09	VERTICAL Peak

Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



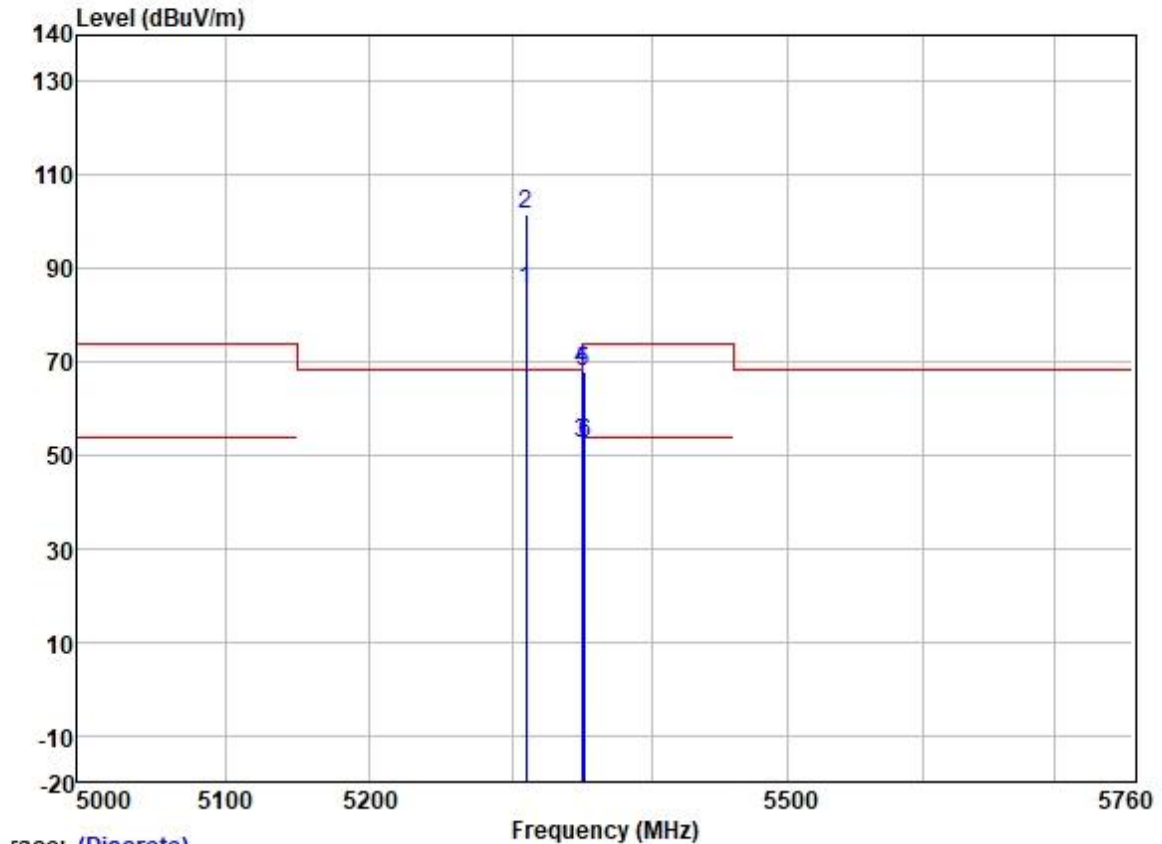
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5144.728	47.77	31.72	5.62	36.86	48.25	54.00	-5.75	HORIZONTAL	Average
2	5144.728	60.87	31.72	5.62	36.86	61.35	74.00	-12.65	HORIZONTAL	Peak
3	5149.980	47.60	31.72	5.62	36.86	48.08	54.00	-5.92	HORIZONTAL	Average
4	5149.980	60.57	31.72	5.62	36.86	61.05	74.00	-12.95	HORIZONTAL	Peak
5	5270.000	81.76	31.75	5.80	36.87	82.44	-----	-----	HORIZONTAL	Average
6 *	5270.000	98.15	31.75	5.80	36.87	98.83	68.20	30.63	HORIZONTAL	Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5148.885	47.83	31.72	5.62	36.86	48.31	54.00	-5.69	VERTICAL Average
2	5148.885	60.88	31.72	5.62	36.86	61.36	74.00	-12.64	VERTICAL Peak
3	5149.980	47.60	31.72	5.62	36.86	48.08	54.00	-5.92	VERTICAL Average
4	5149.980	59.23	31.72	5.62	36.86	59.71	74.00	-14.29	VERTICAL Peak
5	5270.000	78.85	31.75	5.80	36.87	79.53	-----	-----	VERTICAL Average
6 *	5270.000	93.68	31.75	5.80	36.87	94.36	68.20	26.16	VERTICAL Peak

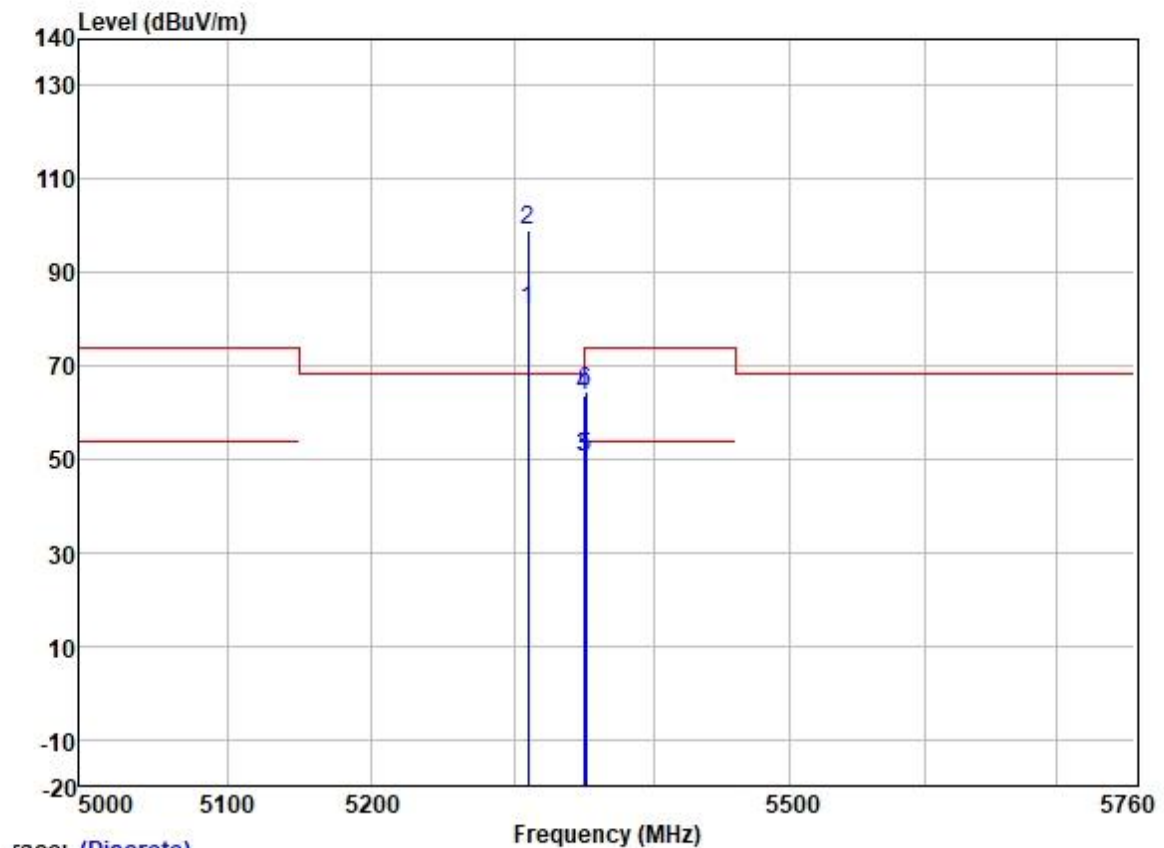
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5310.000	84.30	31.77	6.08	36.87	85.28	-----	-----	HORIZONTAL Average
2 *	5310.000	100.80	31.77	6.08	36.87	101.78	68.20	33.58	HORIZONTAL Peak
3	5350.020	51.51	31.77	6.05	36.88	52.45	54.00	-1.55	HORIZONTAL Average
4	5350.020	67.42	31.77	6.05	36.88	68.36	74.00	-5.64	HORIZONTAL Peak
5	5351.075	67.11	31.77	6.05	36.88	68.05	74.00	-5.95	HORIZONTAL Peak
6	5351.676	51.46	31.77	6.05	36.88	52.40	54.00	-1.60	HORIZONTAL Average

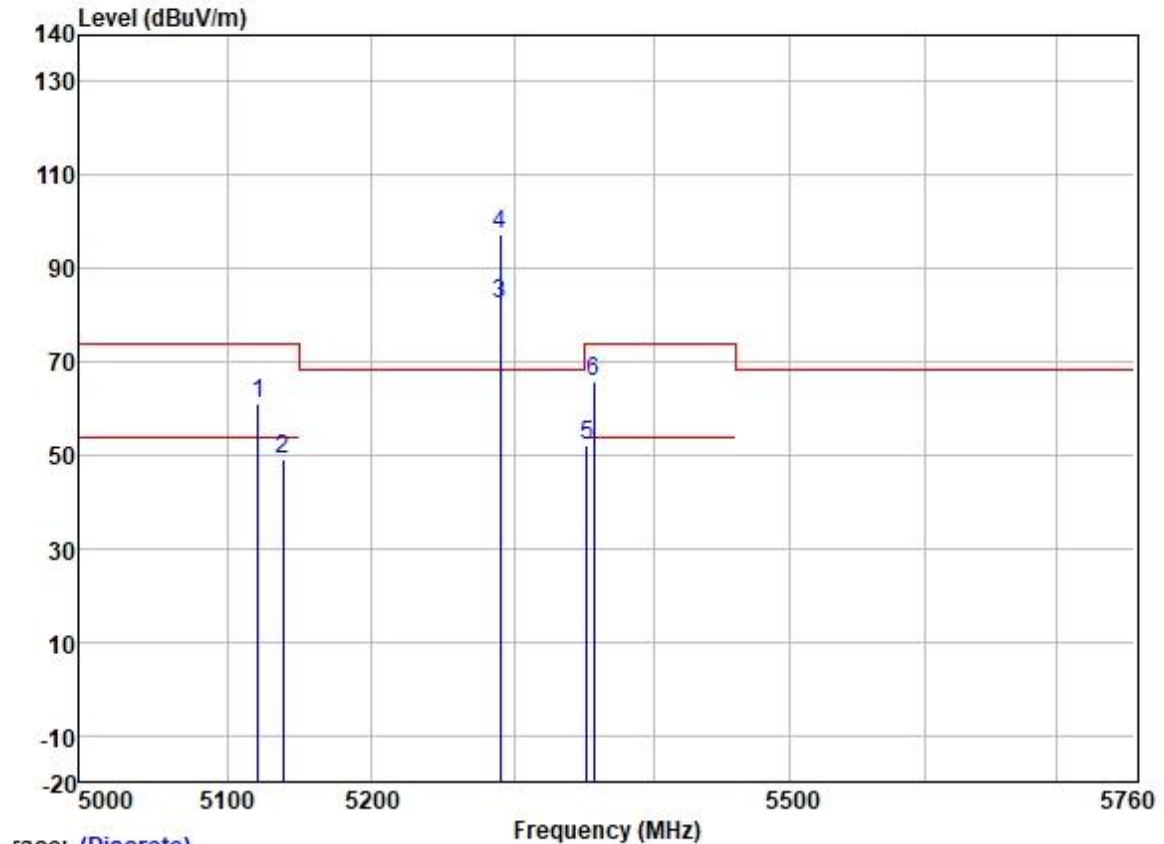
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

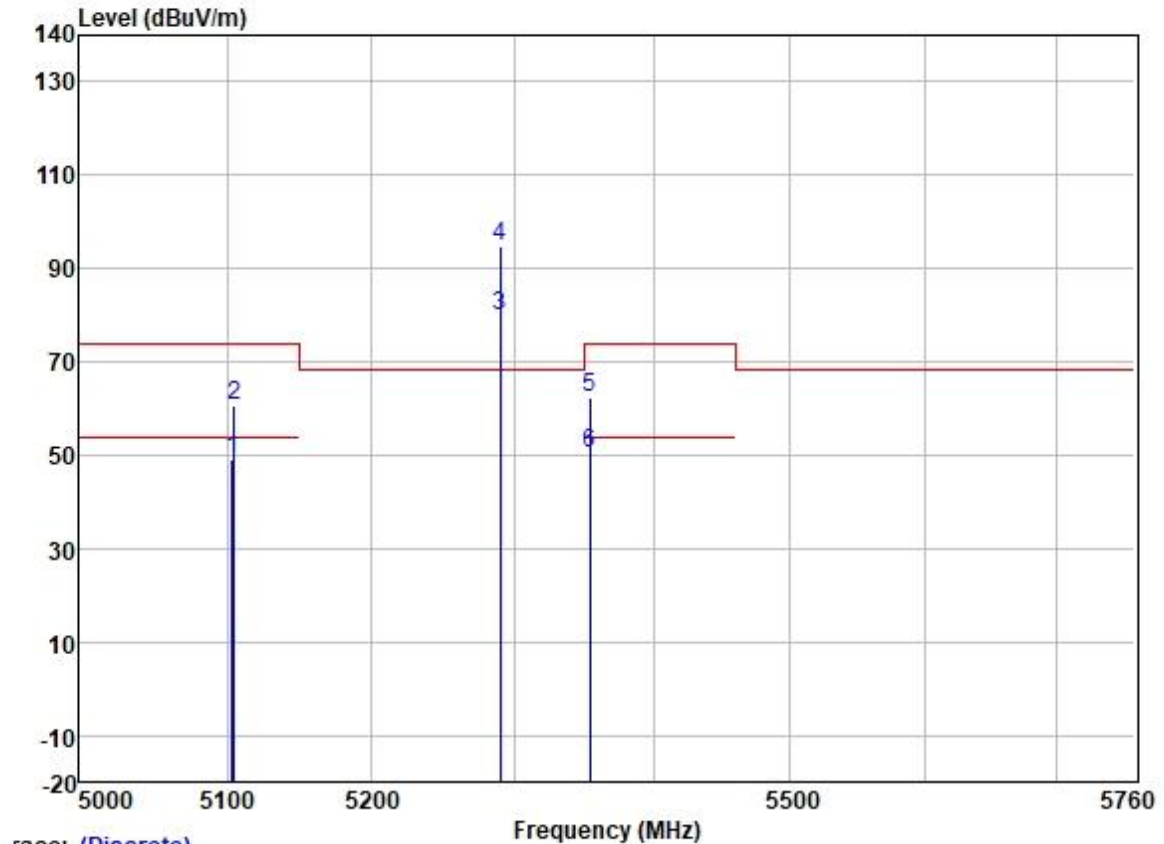
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5310.000	80.81	31.77	6.08	36.87	81.79	-----	-----	VERTICAL Average
2 *	5310.000	97.93	31.77	6.08	36.87	98.91	68.20	30.71	VERTICAL Peak
3	5350.020	49.32	31.77	6.05	36.88	50.26	54.00	-3.74	VERTICAL Average
4	5350.020	62.81	31.77	6.05	36.88	63.75	74.00	-10.25	VERTICAL Peak
5	5350.594	49.34	31.77	6.05	36.88	50.28	54.00	-3.72	VERTICAL Average
6	5350.834	63.54	31.77	6.05	36.88	64.48	74.00	-9.52	VERTICAL Peak

Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



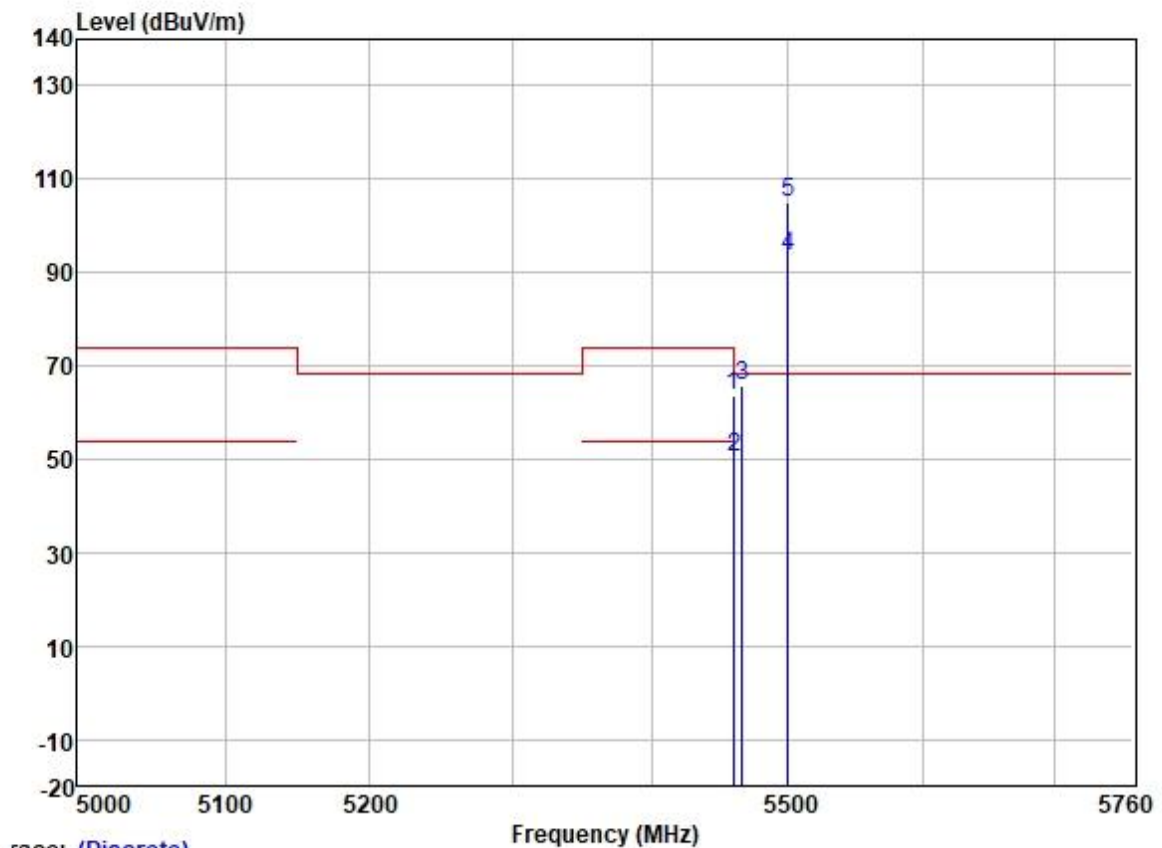
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5121.325	60.43	31.72	5.64	36.86	60.93	74.00	-13.07	HORIZONTAL Peak
2	5138.331	48.51	31.72	5.63	36.86	49.00	54.00	-5.00	HORIZONTAL Average
3	5290.000	81.68	31.76	6.00	36.87	82.57	-----	-----	HORIZONTAL Average
4 *	5290.000	96.55	31.76	6.00	36.87	97.44	68.20	29.24	HORIZONTAL Peak
5	5351.758	51.17	31.77	6.05	36.88	52.11	54.00	-1.89	HORIZONTAL Average
6	5356.654	64.81	31.78	6.03	36.88	65.74	74.00	-8.26	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5103.208	48.48	31.72	5.65	36.86	48.99	54.00	-5.01	VERTICAL Average
2	5104.958	60.19	31.72	5.65	36.86	60.70	74.00	-13.30	VERTICAL Peak
3	5290.000	78.91	31.76	6.00	36.87	79.80	-----	-----	VERTICAL Average
4 *	5290.000	93.69	31.76	6.00	36.87	94.58	68.20	26.38	VERTICAL Peak
5	5353.899	61.23	31.77	6.05	36.88	62.17	74.00	-11.83	VERTICAL Peak
6	5354.206	49.40	31.78	6.03	36.88	50.33	54.00	-3.67	VERTICAL Average

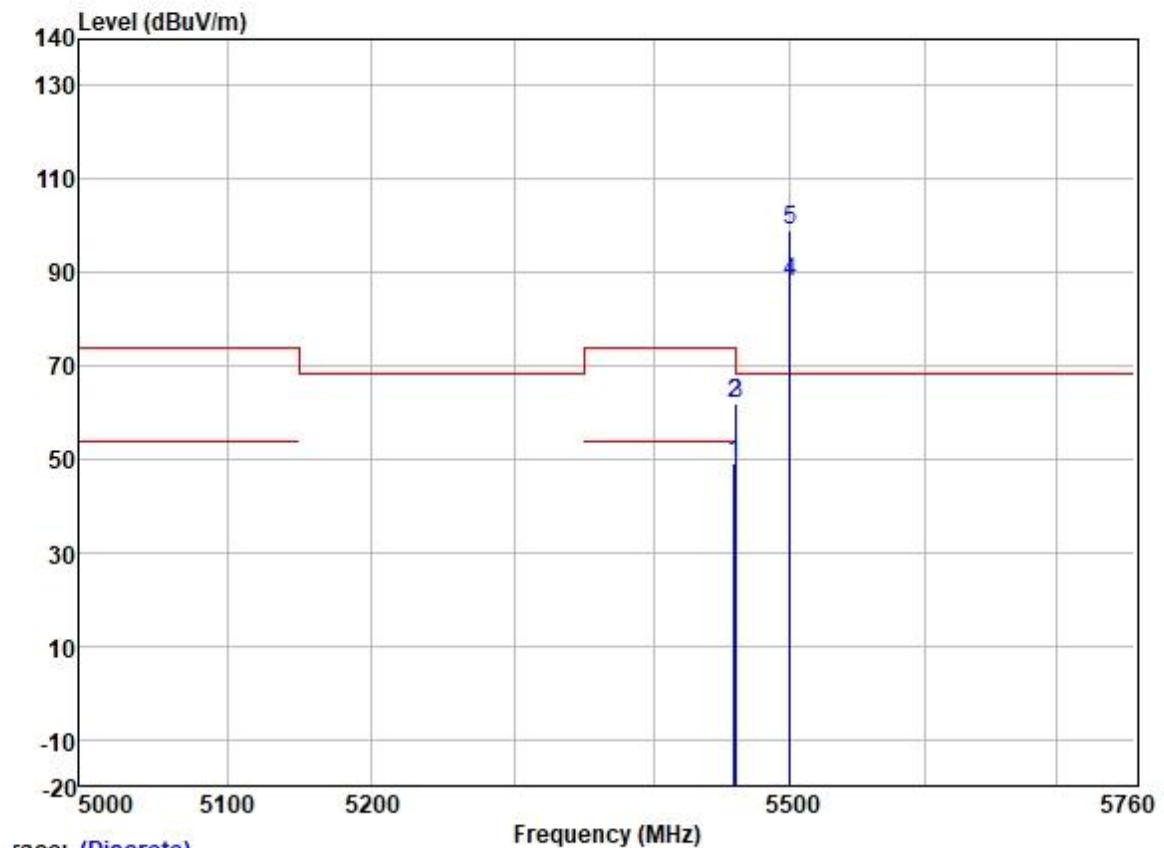
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5459.311	62.28	31.79	6.26	36.88	63.45	74.00	-10.55	HORIZONTAL Peak
2	5459.791	49.11	31.79	6.26	36.88	50.28	54.00	-3.72	HORIZONTAL Average
3	5466.034	64.56	31.80	6.31	36.88	65.79	68.20	-2.41	HORIZONTAL Peak
4	5500.000	92.26	31.80	6.40	36.88	93.58	-----	-----	HORIZONTAL Average
5 *	5500.000	103.53	31.80	6.40	36.88	104.85	68.20	36.65	HORIZONTAL Peak

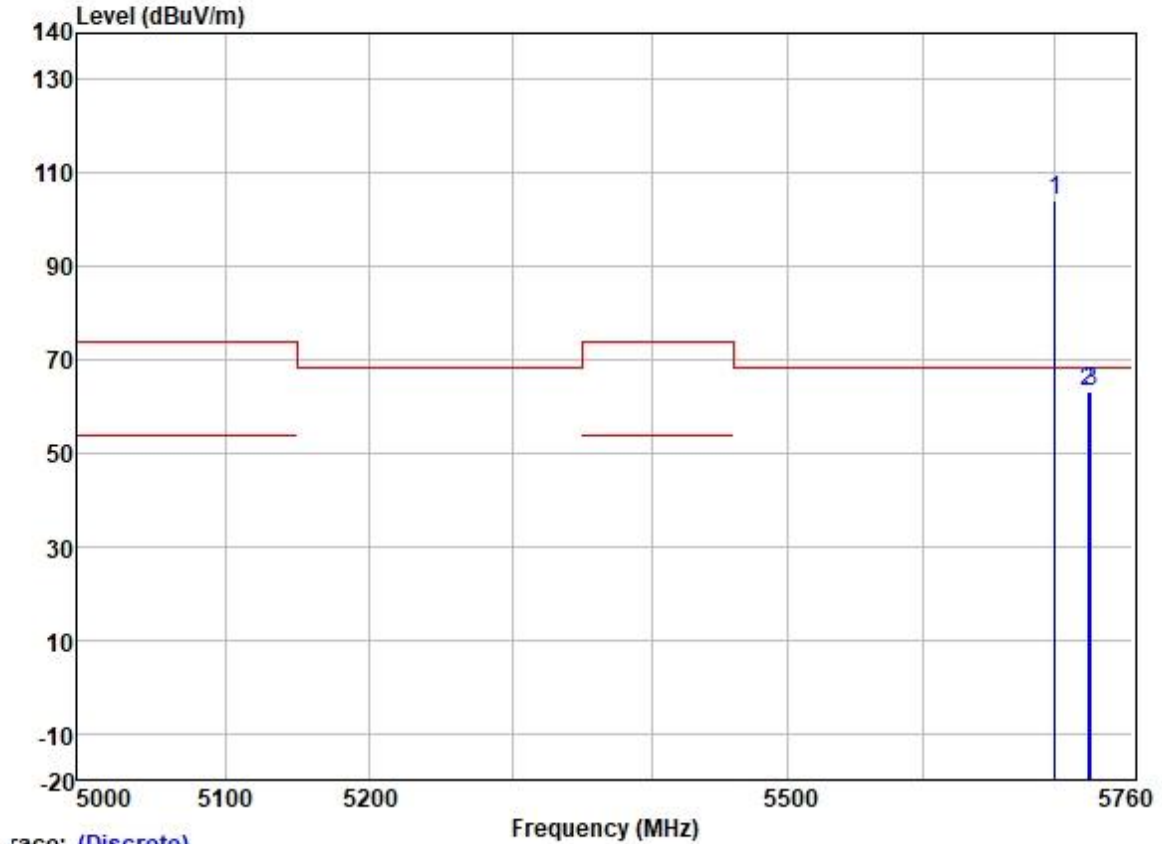
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5458.471	48.15	31.79	6.26	36.88	49.32	54.00	-4.68	VERTICAL Average
2	5459.670	60.74	31.79	6.26	36.88	61.91	74.00	-12.09	VERTICAL Peak
3	5460.271	60.88	31.79	6.26	36.88	62.05	68.20	-6.15	VERTICAL Peak
4	5500.000	86.66	31.80	6.40	36.88	87.98	-----	-----	VERTICAL Average
5 *	5500.000	97.63	31.80	6.40	36.88	98.95	68.20	30.75	VERTICAL Peak

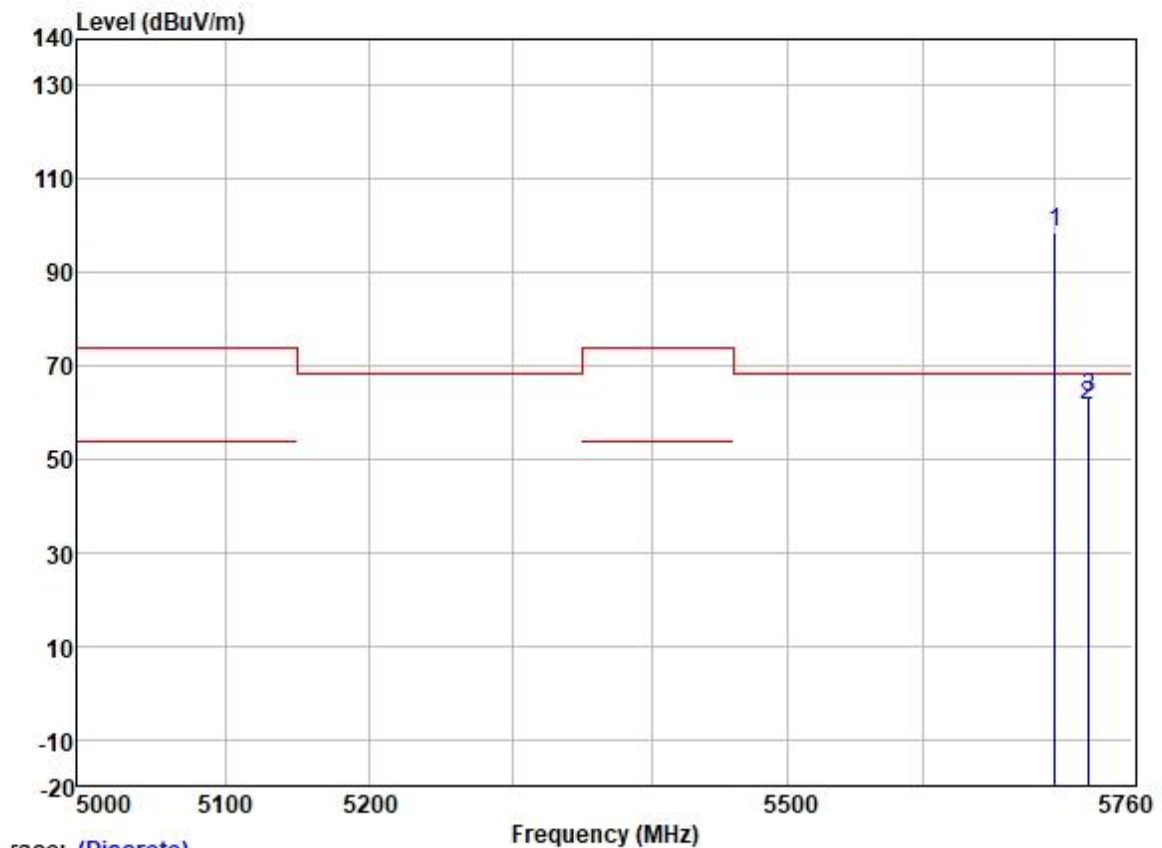
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	* 5700.000	102.66	32.01	6.40	36.89	104.18	68.20	35.98	HORIZONTAL	Peak
2	5725.000	61.90	32.07	6.25	36.89	63.33	68.20	-4.87	HORIZONTAL	Peak
3	5727.183	61.87	32.07	6.25	36.89	63.30	68.20	-4.90	HORIZONTAL	Peak

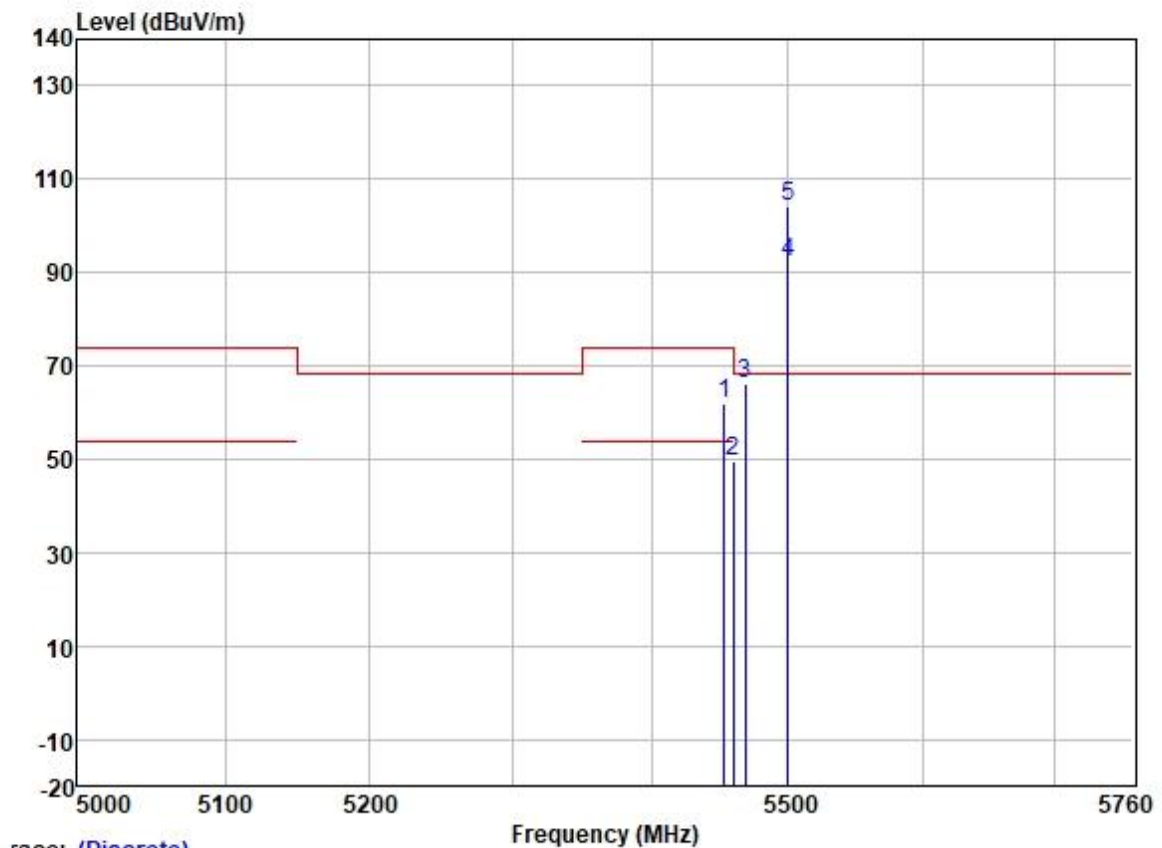
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna Level 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	96.92	32.01	6.40	36.89	98.44	68.20	30.24	VERTICAL Peak
2	5725.000	59.97	32.07	6.25	36.89	61.40	68.20	-6.80	VERTICAL Peak
3	5726.183	61.78	32.07	6.25	36.89	63.21	68.20	-4.99	VERTICAL Peak

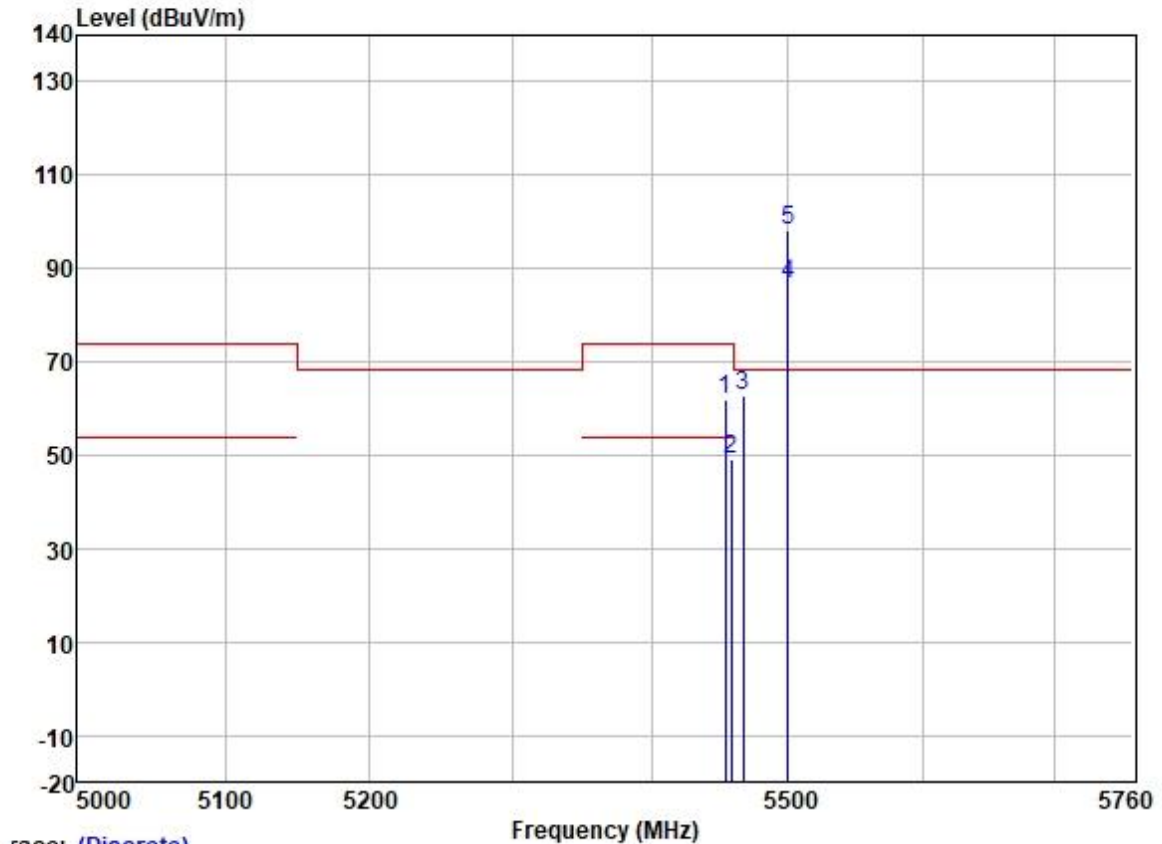
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5453.074	60.88	31.79	6.26	36.88	62.05	74.00	-11.95	HORIZONTAL Peak
2	5459.070	48.40	31.79	6.26	36.88	49.57	54.00	-4.43	HORIZONTAL Average
3	5468.197	64.75	31.80	6.31	36.88	65.98	68.20	-2.22	HORIZONTAL Peak
4	5500.000	90.70	31.80	6.40	36.88	92.02	-----	-----	HORIZONTAL Average
5 *	5500.000	103.03	31.80	6.40	36.88	104.35	68.20	36.15	HORIZONTAL Peak

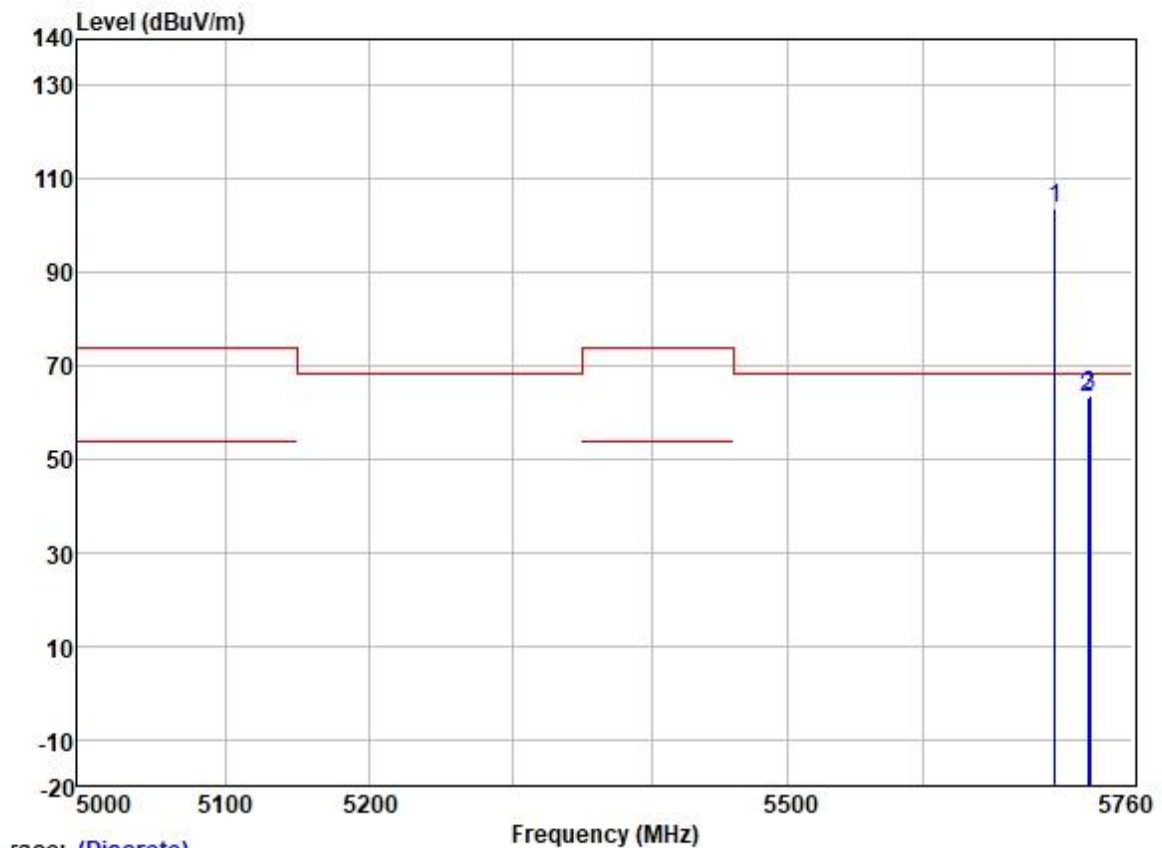
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5453.554	60.65	31.79	6.26	36.88	61.82	74.00	-12.18	VERTICAL Peak
2	5458.230	47.96	31.79	6.26	36.88	49.13	54.00	-4.87	VERTICAL Average
3	5466.875	61.56	31.80	6.31	36.88	62.79	68.20	-5.41	VERTICAL Peak
4	5500.000	85.21	31.80	6.40	36.88	86.53	-----	-----	VERTICAL Average
5 *	5500.000	96.86	31.80	6.40	36.88	98.18	68.20	29.98	VERTICAL Peak

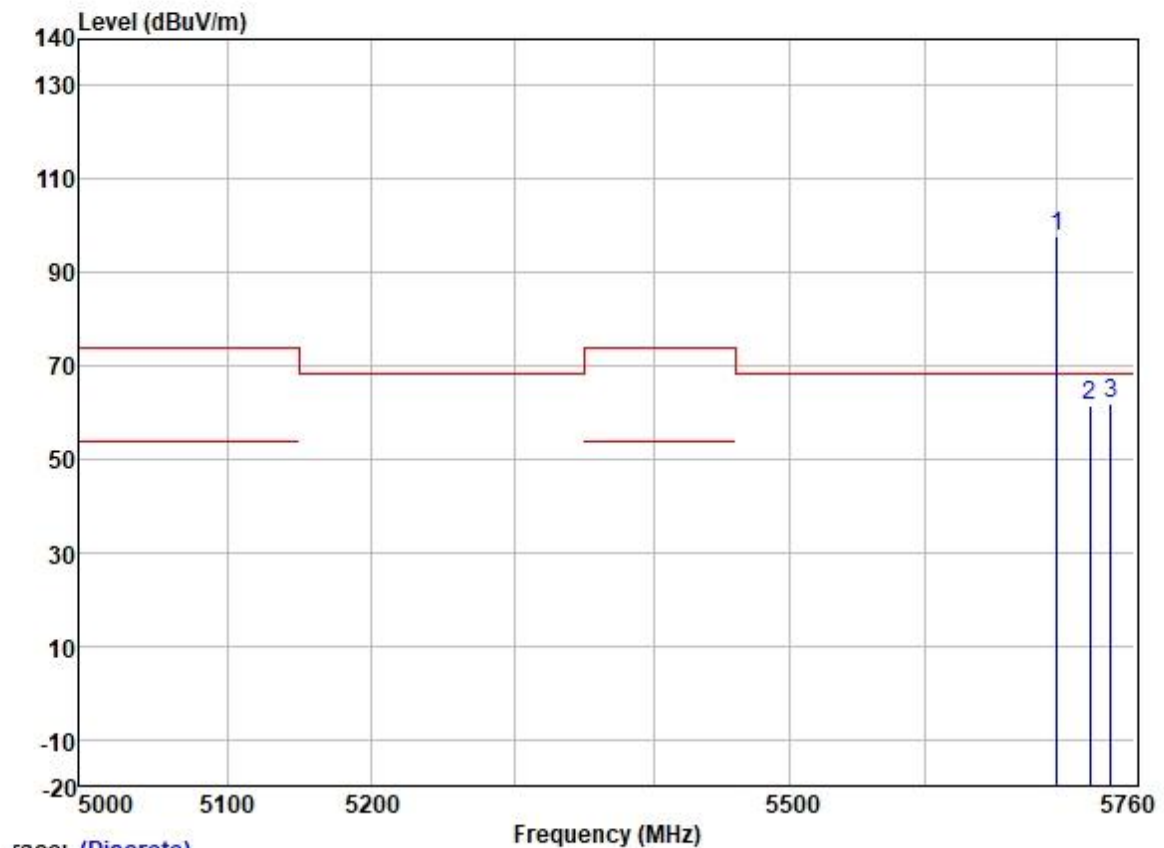
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	5700.000	102.03	32.01	6.40	36.89	103.55	68.20	35.35 HORIZONTAL Peak
2	5725.000	61.78	32.07	6.25	36.89	63.21	68.20	-4.99 HORIZONTAL Peak
3	5726.783	62.03	32.07	6.25	36.89	63.46	68.20	-4.74 HORIZONTAL Peak

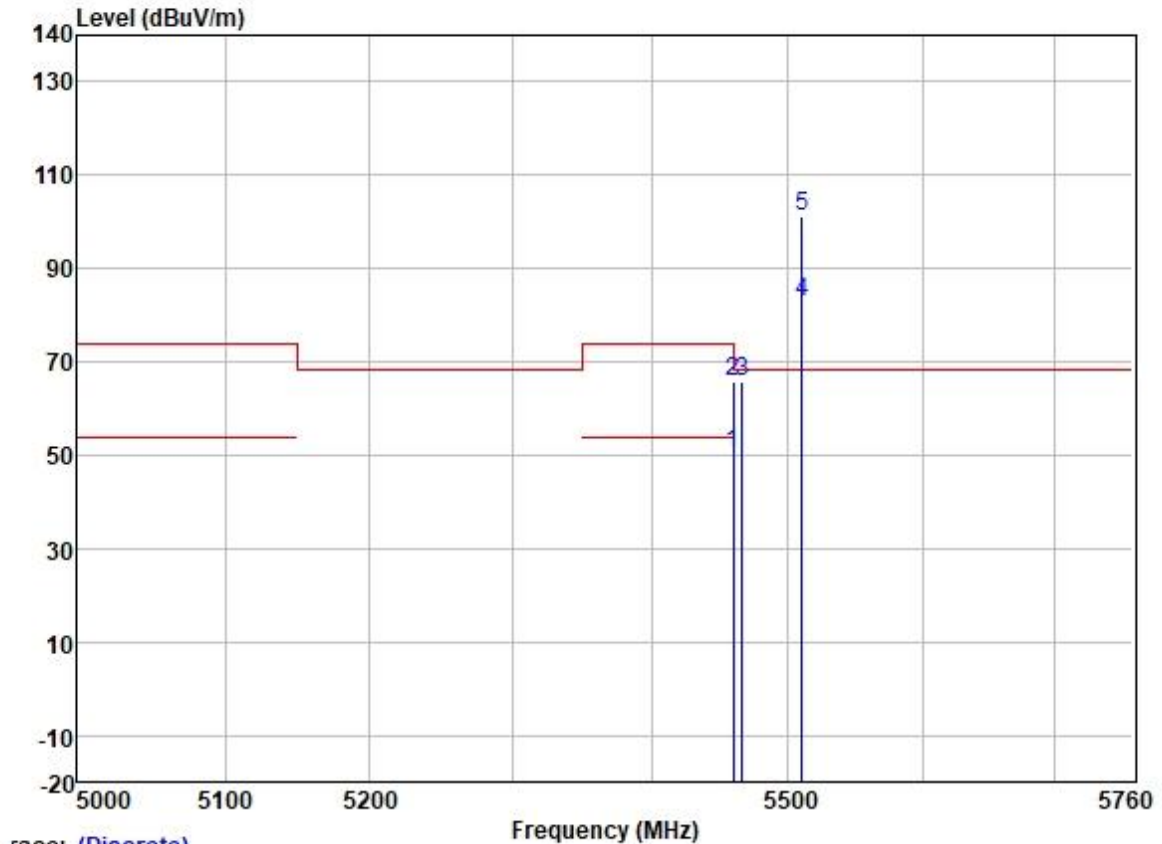
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna Level 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	96.18	32.01	6.40	36.89	97.70	68.20	29.50	VERTICAL Peak
2	5725.000	59.92	32.07	6.25	36.89	61.35	68.20	-6.85	VERTICAL Peak
3	5741.193	60.60	32.10	6.20	36.89	62.01	68.20	-6.19	VERTICAL Peak

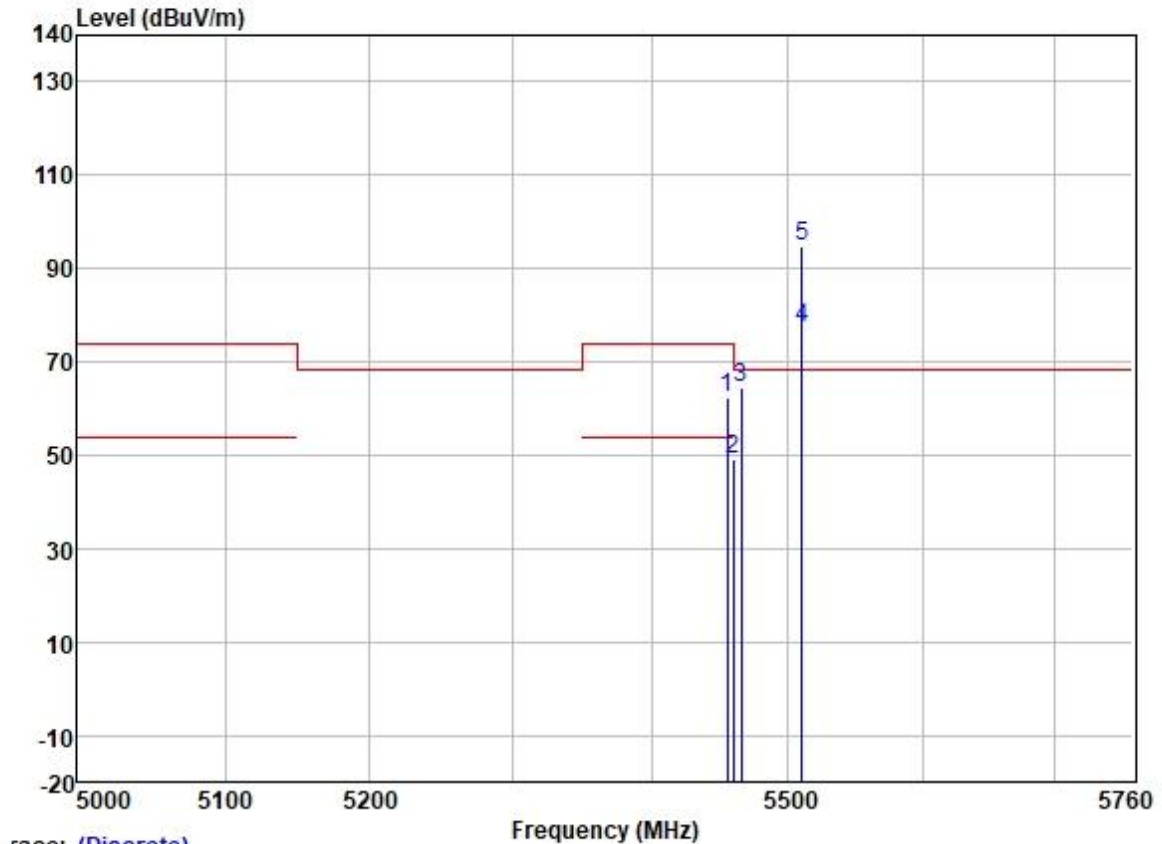
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5459.063	49.18	31.79	6.26	36.88	50.35	54.00	-3.65	HORIZONTAL Average
2	5459.761	64.79	31.79	6.26	36.88	65.96	74.00	-8.04	HORIZONTAL Peak
3	5465.634	64.65	31.80	6.31	36.88	65.88	68.20	-2.32	HORIZONTAL Peak
4	5510.000	81.42	31.80	6.40	36.88	82.74	-----	-----	HORIZONTAL Average
5 *	5510.000	99.86	31.80	6.40	36.88	101.18	68.20	32.98	HORIZONTAL Peak

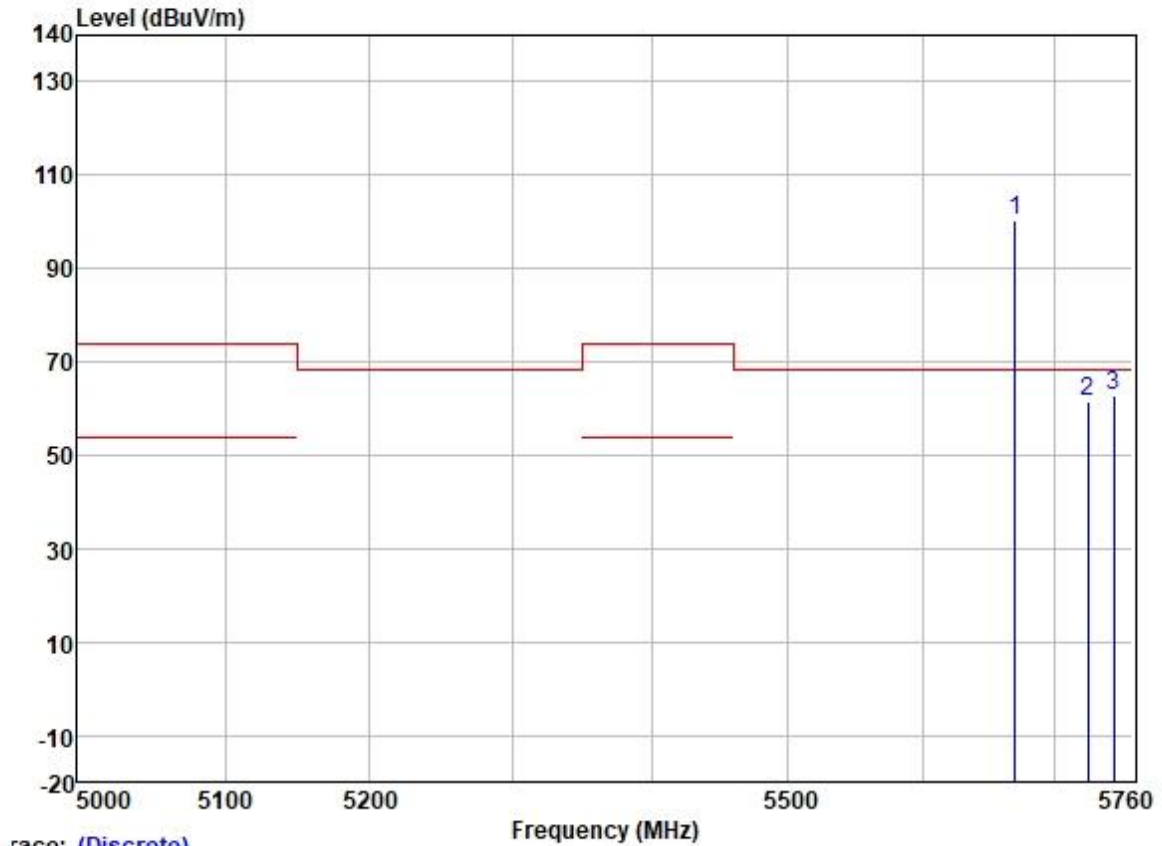
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5454.732	61.11	31.79	6.26	36.88	62.28	74.00	-11.72	VERTICAL Peak
2	5459.622	48.16	31.79	6.26	36.88	49.33	54.00	-4.67	VERTICAL Average
3	5465.214	63.32	31.80	6.31	36.88	64.55	68.20	-3.65	VERTICAL Peak
4	5510.000	76.09	31.80	6.40	36.88	77.41	-----	-----	VERTICAL Average
5 *	5510.000	93.59	31.80	6.40	36.88	94.91	68.20	26.71	VERTICAL Peak

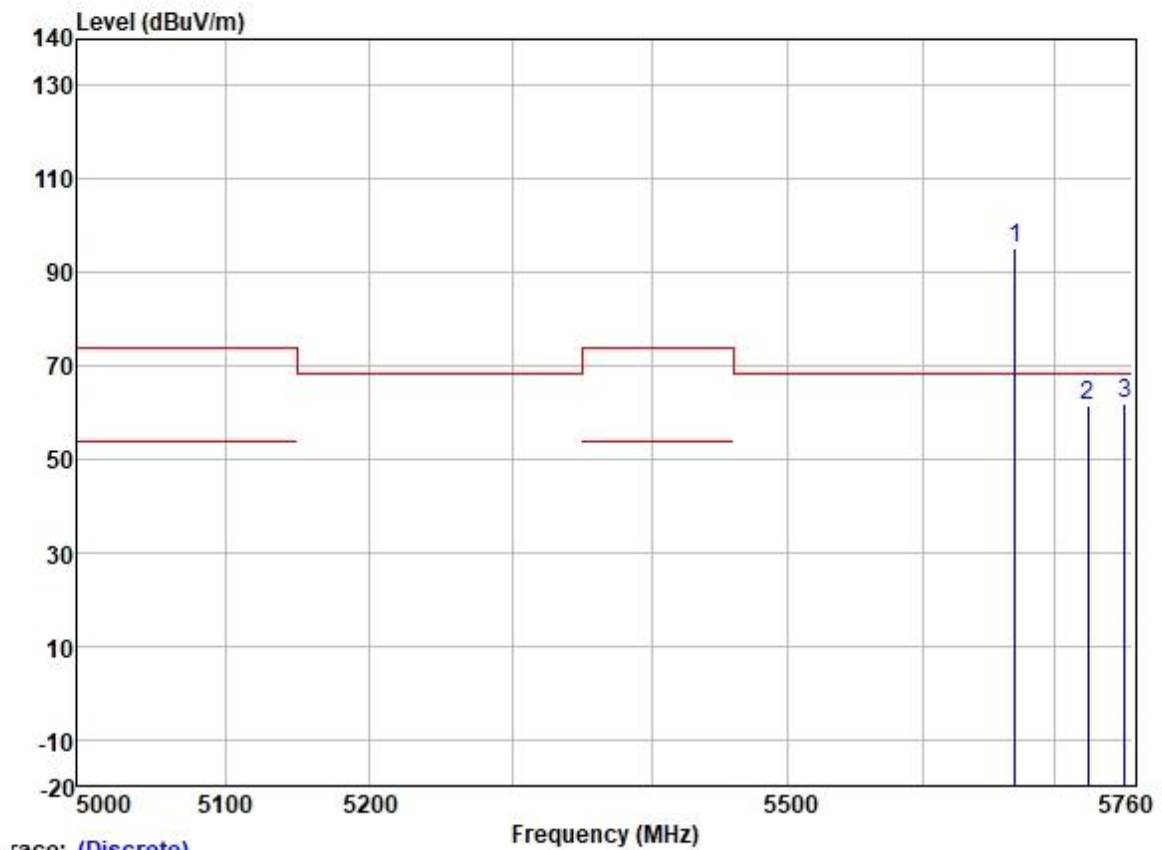
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 *	5670.000	99.08	31.97	6.37	36.89	100.53	68.20	32.33
2	5725.000	59.91	32.07	6.25	36.89	61.34	68.20	-6.86
3	5745.382	61.34	32.10	6.20	36.89	62.75	68.20	-5.45

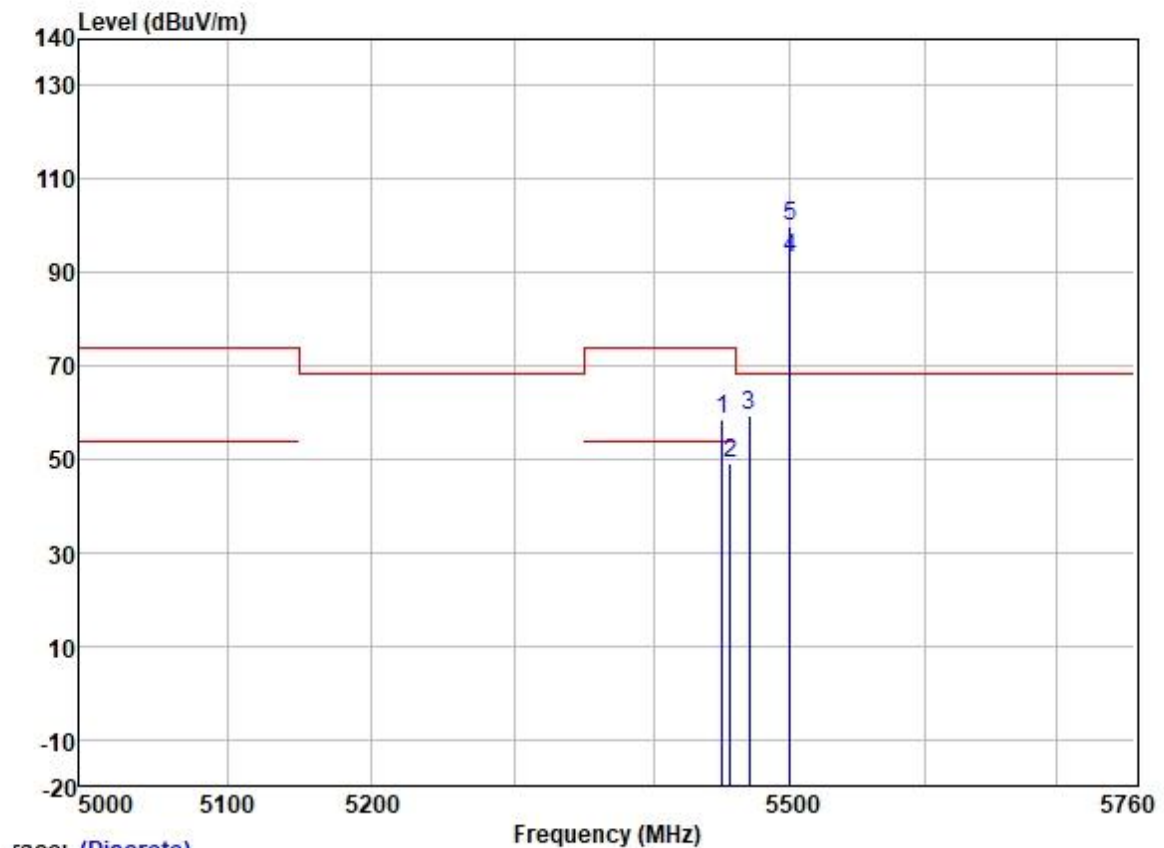
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna Level 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	93.74	31.97	6.37	36.89	95.19	68.20	26.99	VERTICAL Peak
2	5725.000	59.88	32.07	6.25	36.89	61.31	68.20	-6.89	VERTICAL Peak
3	5753.559	60.58	32.10	6.20	36.89	61.99	68.20	-6.21	VERTICAL Peak

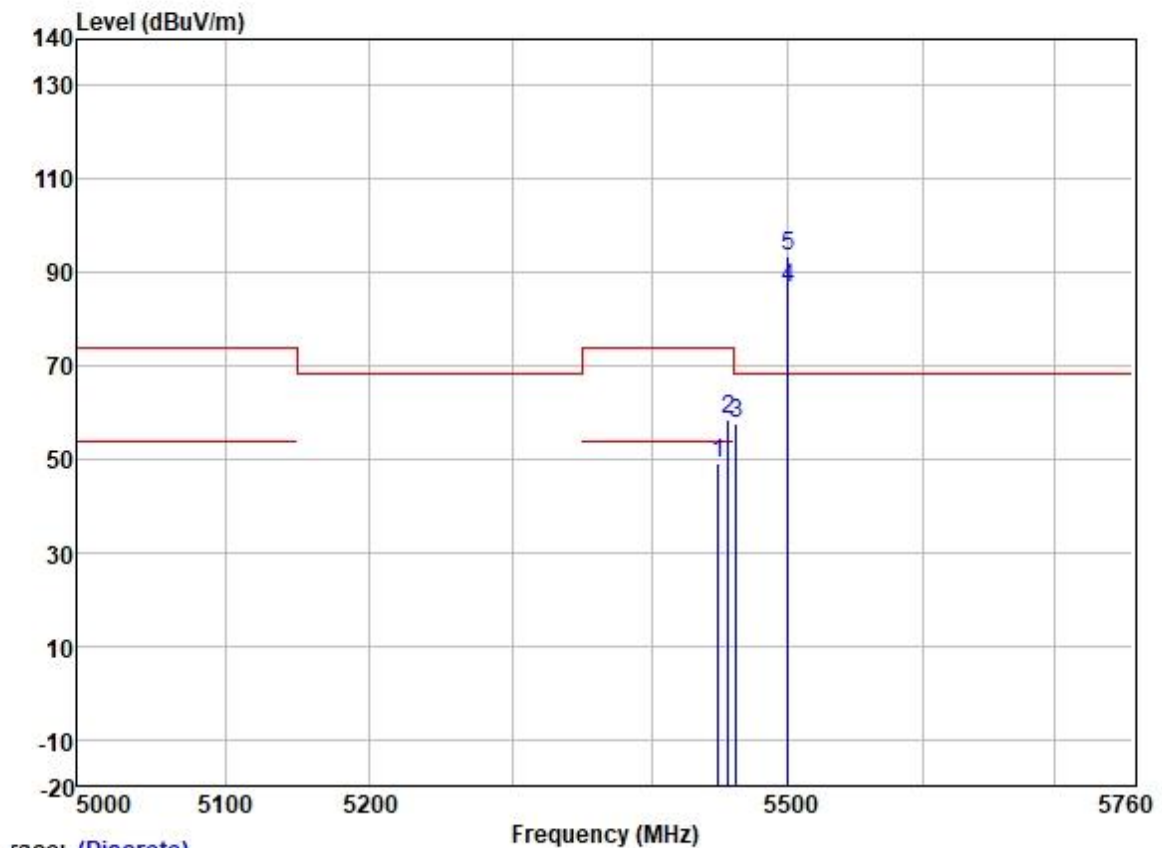
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5450.079	57.52	31.79	6.26	36.88	58.69	74.00	-15.31	HORIZONTAL	Peak
2	5455.592	48.14	31.79	6.26	36.88	49.31	54.00	-4.69	HORIZONTAL	Average
3	5469.639	58.15	31.80	6.31	36.88	59.38	68.20	-8.82	HORIZONTAL	Peak
4	5500.000	91.60	31.80	6.40	36.88	92.92	-----	-----	HORIZONTAL	Average
5 *	5500.000	98.77	31.80	6.40	36.88	100.09	68.20	31.89	HORIZONTAL	Peak

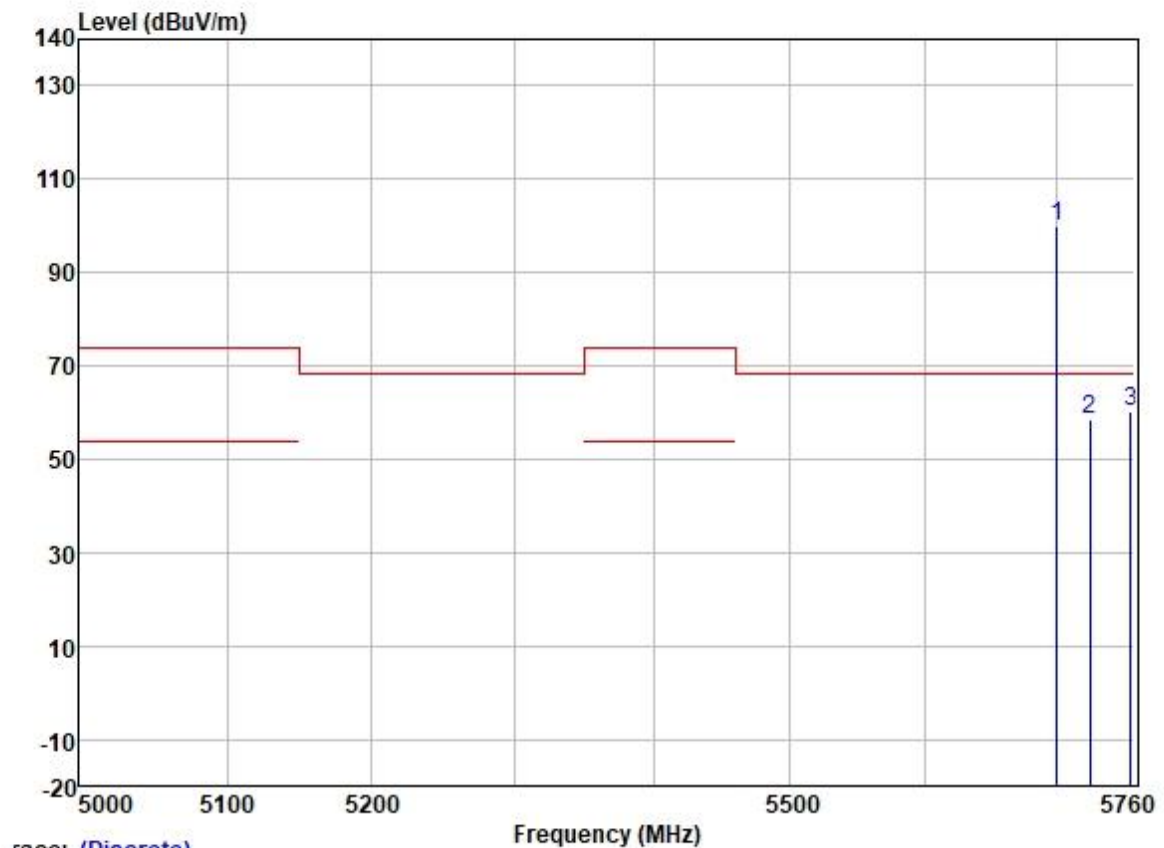
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5448.163	47.94	31.79	6.26	36.88	49.11	54.00	-4.89	VERTICAL Average
2	5455.952	57.28	31.79	6.26	36.88	58.45	74.00	-15.55	VERTICAL Peak
3	5461.710	56.65	31.79	6.26	36.88	57.82	68.20	-10.38	VERTICAL Peak
4	5500.000	85.15	31.80	6.40	36.88	86.47	-----	-----	VERTICAL Average
5 *	5500.000	92.11	31.80	6.40	36.88	93.43	68.20	25.23	VERTICAL Peak

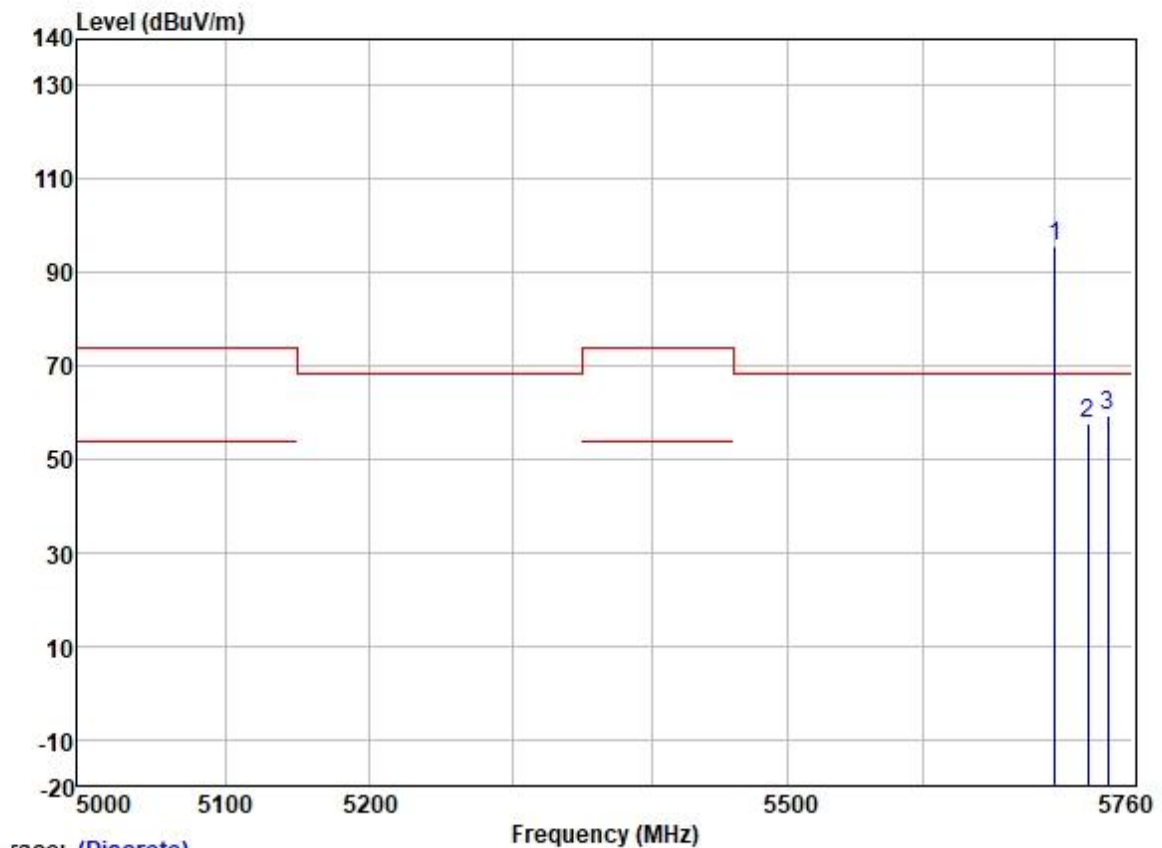
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	* 5700.000	98.21	32.01	6.40	36.89	99.73	68.20	31.53	HORIZONTAL	Peak
2	5725.000	56.91	32.07	6.25	36.89	58.34	68.20	-9.86	HORIZONTAL	Peak
3	5756.343	58.86	32.13	6.15	36.89	60.25	68.20	-7.95	HORIZONTAL	Peak

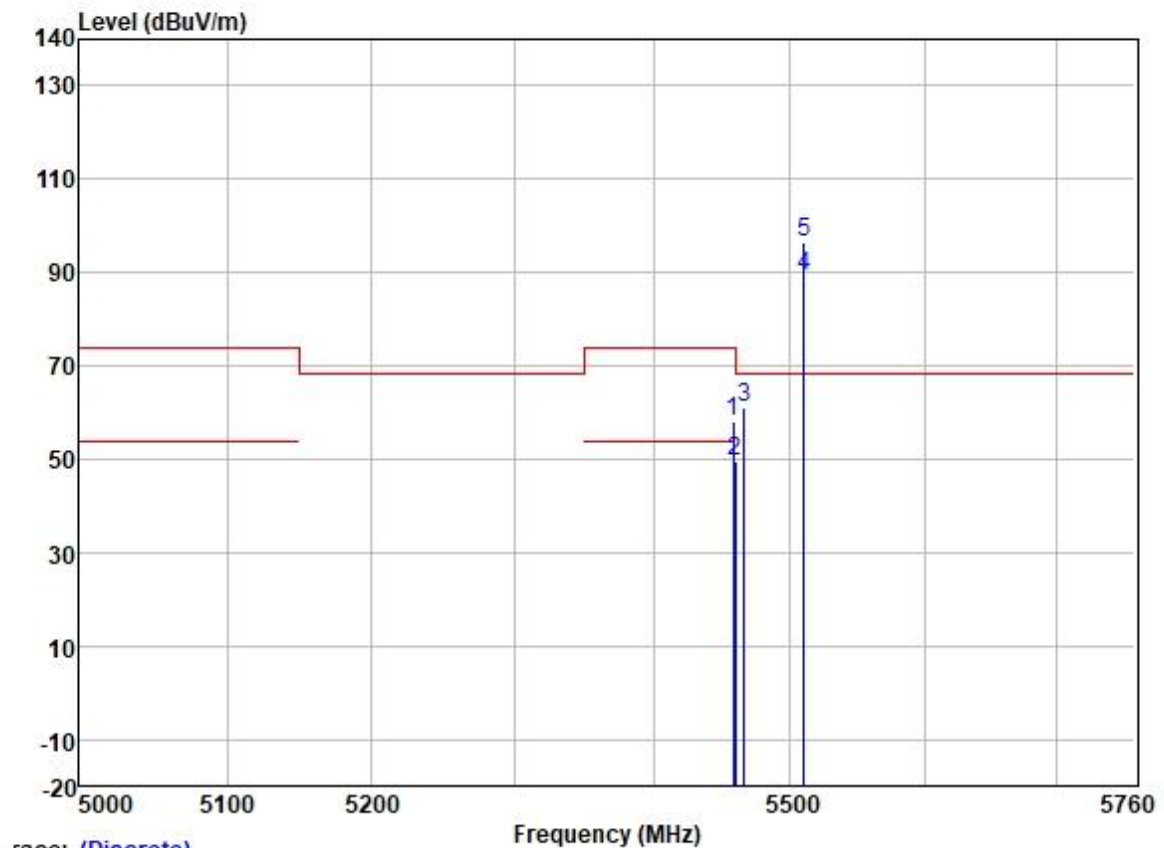
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	5700.000	94.13	32.01	6.40	36.89	95.65	68.20	27.45 VERTICAL Peak
2	5725.000	56.30	32.07	6.25	36.89	57.73	68.20	-10.47 VERTICAL Peak
3	5740.292	58.00	32.10	6.20	36.89	59.41	68.20	-8.79 VERTICAL Peak

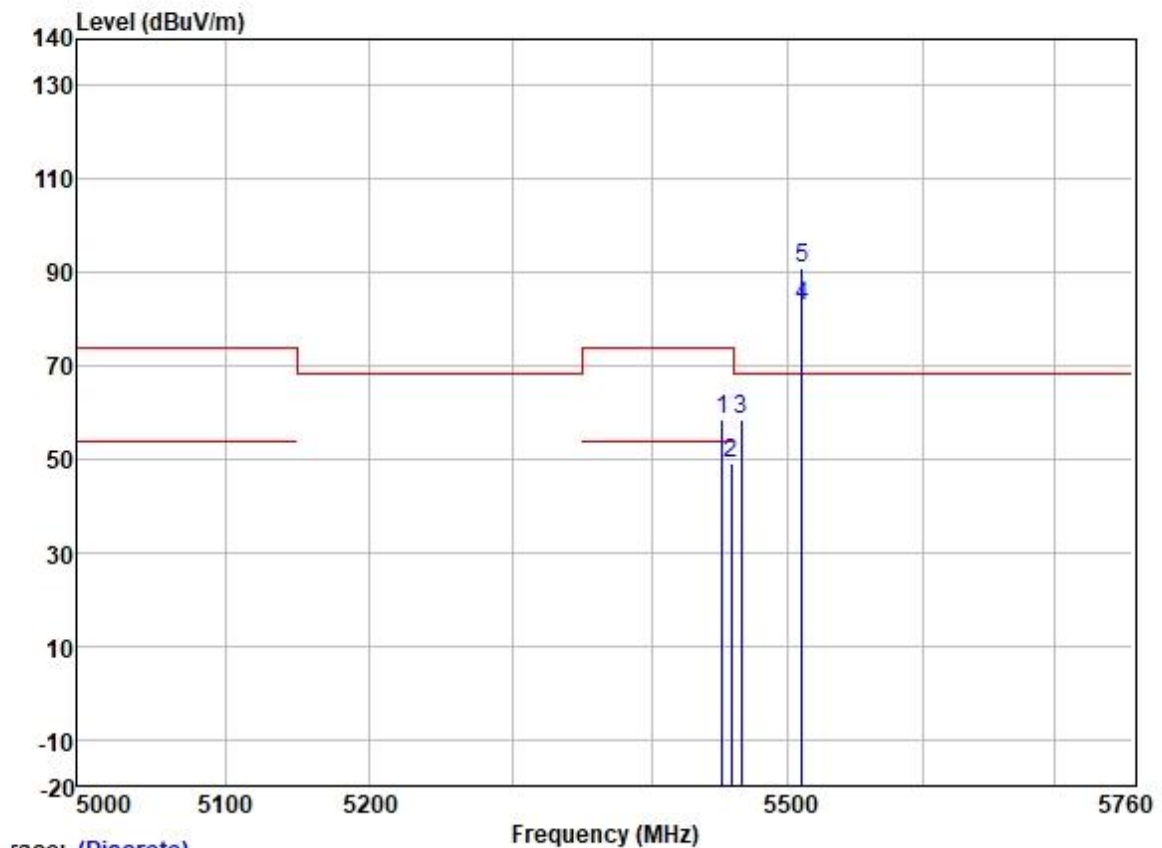
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5457.666	57.10	31.79	6.26	36.88	58.27	74.00	-15.73	HORIZONTAL Peak
2	5459.481	48.55	31.79	6.26	36.88	49.72	54.00	-4.28	HORIZONTAL Average
3	5465.914	59.63	31.80	6.31	36.88	60.86	68.20	-7.34	HORIZONTAL Peak
4	5510.000	87.91	31.80	6.40	36.88	89.23	-----	-----	HORIZONTAL Average
5 *	5510.000	95.37	31.80	6.40	36.88	96.69	68.20	28.49	HORIZONTAL Peak

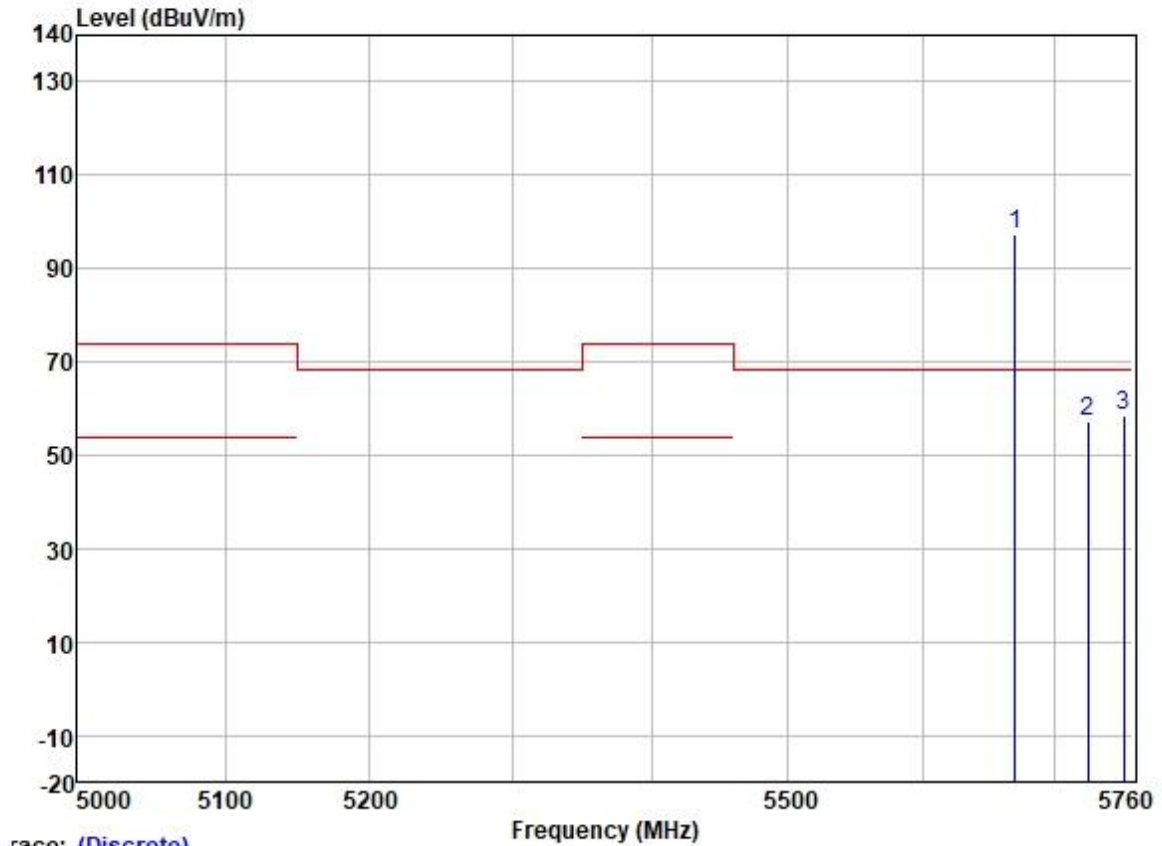
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5451.243	57.17	31.79	6.26	36.88	58.34	74.00	-15.66	VERTICAL Peak
2	5458.084	48.05	31.79	6.26	36.88	49.22	54.00	-4.78	VERTICAL Average
3	5465.354	57.10	31.80	6.31	36.88	58.33	68.20	-9.87	VERTICAL Peak
4	5510.000	81.46	31.80	6.40	36.88	82.78	-----	-----	VERTICAL Average
5 *	5510.000	89.43	31.80	6.40	36.88	90.75	68.20	22.55	VERTICAL Peak

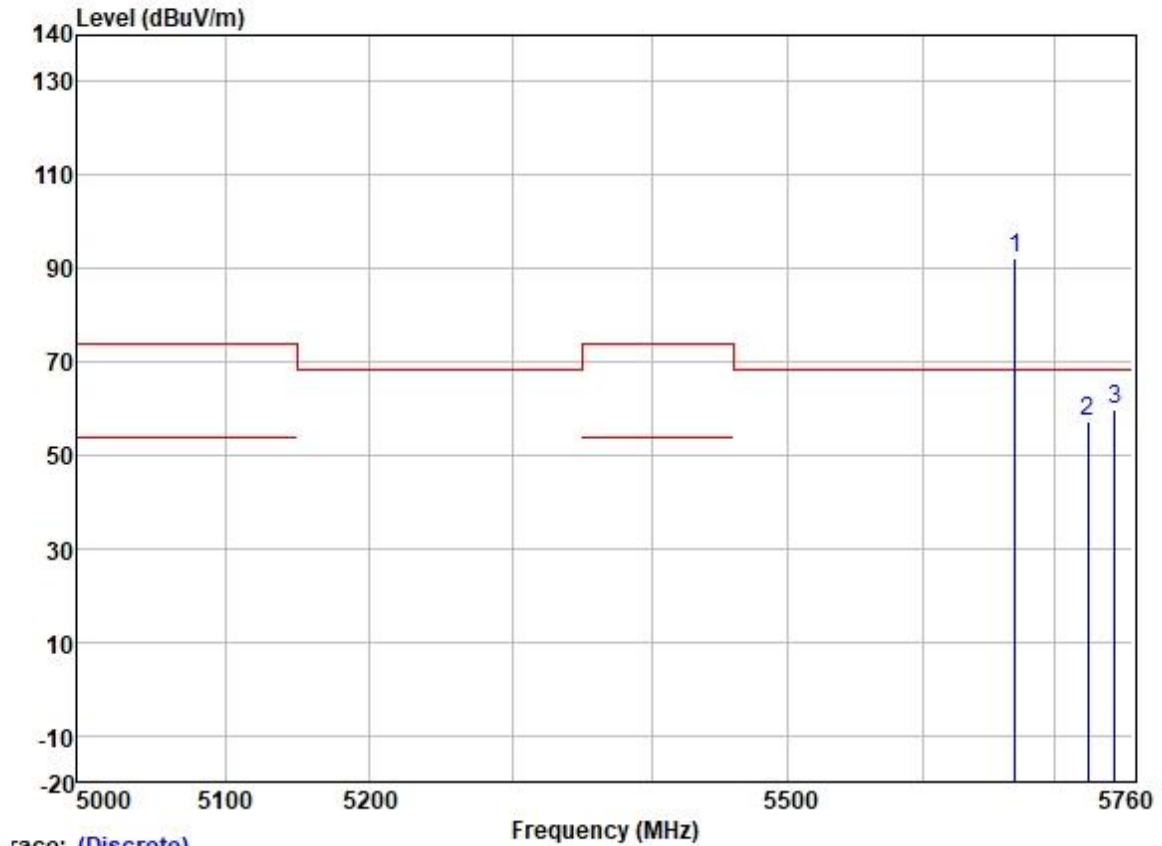
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5670.000	95.99	31.97	6.37	36.89	97.44	68.20	29.24	HORIZONTAL	Peak
2	5725.000	55.85	32.07	6.25	36.89	57.28	68.20	-10.92	HORIZONTAL	Peak
3	5752.571	57.08	32.10	6.20	36.89	58.49	68.20	-9.71	HORIZONTAL	Peak

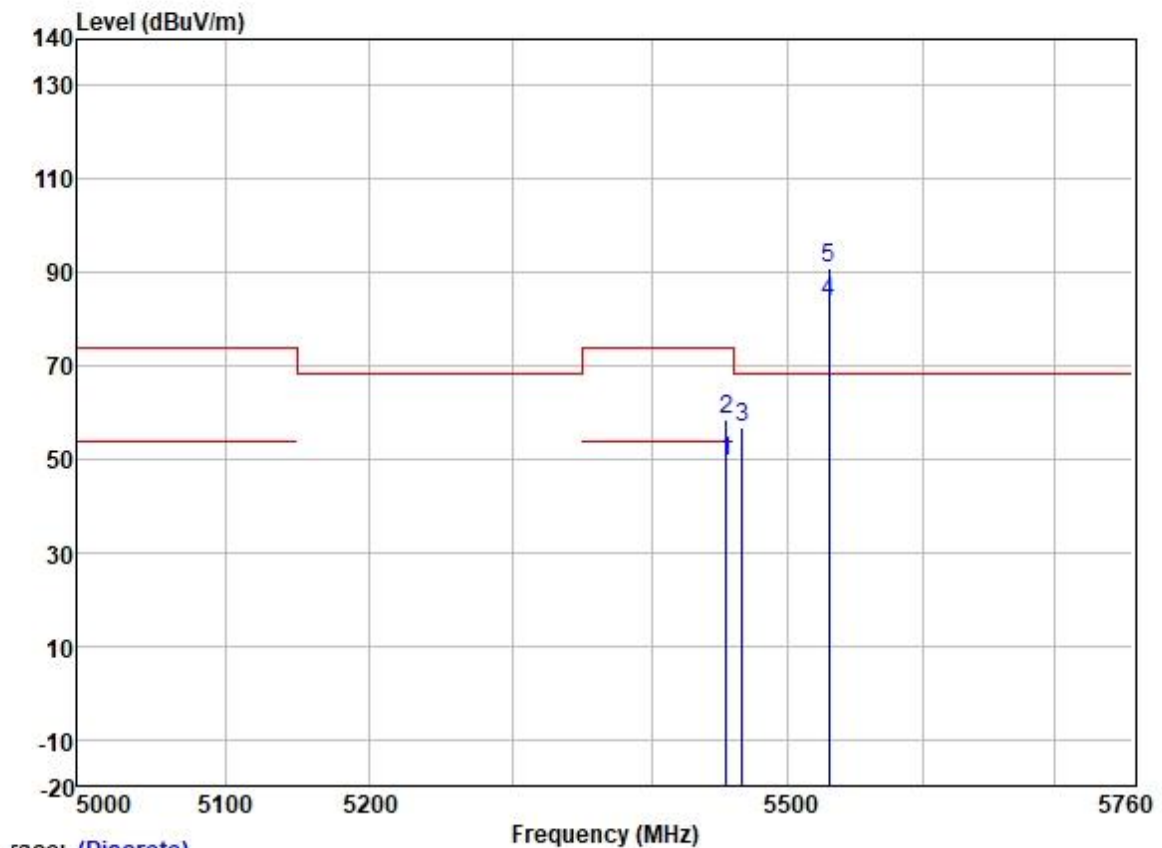
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna Level 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	90.79	31.97	6.37	36.89	92.24	68.20	24.04	VERTICAL Peak
2	5725.000	56.00	32.07	6.25	36.89	57.43	68.20	-10.77	VERTICAL Peak
3	5746.086	58.39	32.10	6.20	36.89	59.80	68.20	-8.40	VERTICAL Peak

Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5454.455	48.52	31.79	6.26	36.88	49.69	54.00	-4.31	HORIZONTAL Average
2	5454.455	57.47	31.79	6.26	36.88	58.64	74.00	-15.36	HORIZONTAL Peak
3	5465.734	55.72	31.80	6.31	36.88	56.95	68.20	-11.25	HORIZONTAL Peak
4	5530.000	82.38	31.83	6.37	36.89	83.69	-----	-----	HORIZONTAL Average
5 *	5530.000	89.59	31.83	6.37	36.89	90.90	68.20	22.70	HORIZONTAL Peak