



TEST REPORT

Application No.: GZCR2204000425AT
Applicant: GL Technologies (Hong Kong) Limited
Address of Applicant: FLAT/RM 203 2/F BUILDING 19W 19 SCIENCE PARK WEST AVENUE
SHATIN NT Hong Kong
Manufacturer: GL Technologies (Hong Kong) Limited
Address of Manufacturer: FLAT/RM 203 2/F BUILDING 19W 19 SCIENCE PARK WEST AVENUE
SHATIN NT Hong Kong
Factory: Shenzhen Guanglian Zhitong Technology Co., LTD
Address of Factory: Room 305, 306, Chuangwei Digital Building, Songbai Road, Shiyan Street,
Baoan District, Shenzhen
Equipment Under Test (EUT):
EUT Name: AXT1800 Wireless Router
Model No.: GL-AXT1800
Trade Mark: GL.iNET
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2022-03-31
Date of Test: 2022-04-01 to 2022-05-19
Date of Issue: 2022-05-27

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

Kobe Jian
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-05-27		Original

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

2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass
Duty Cycle		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
Transmitter Power Control		KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (h)(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:	DC 5V 4A. Adapter Model: GDB008W3-050400ZX Input: AC 100-240V 50/60Hz 0.8A Output: DC 5V 4A.
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/ax: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(VHT20)/ax(HE20): 20MHz; 802.11n(HT40)/ac(VHT40)/ax(HE40): 40MHz; 802.11ac(VHT80)/ax(HE80): 80MHz
DFS Function:	Master
TPC Function:	Support TPC function
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT1:4.39dBi; ANT2:4.39dBi;

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions (below 1GHz)	±5.00dB (30MHz-1GHz; 3m); ±4.38dB (30MHz-1GHz; 10m);
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m); ± 5.12dB (1GHz-6GHz); ± 5.38dB (6GHz-18GHz); ± 5.61dB (18GHz-40GHz)
Frequency Stability	± 7.25 x 10 ⁻⁸
Radiated Emissions (above 1GHz)	± 5.12dB (1GHz-6GHz); ± 5.38dB (6GHz-18GHz); ± 5.61dB (18GHz-40GHz)

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

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

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-02	2023-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2022-03-12	2023-03-11
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
				2022-05-17	2023-05-16
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
				2022-05-17	2023-05-16
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
				2022-04-13	2023-04-12
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	2022-03-02	2023-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2022-03-12	2023-03-11
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 2022-05-17	2022-05-18 2023-05-16
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19 2022-05-17	2022-05-18 2023-05-16
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15 2022-04-13	2022-04-14 2023-04-12
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	2022-03-02	2023-03-01
ESG Vector Signal Generator(250kHz- 6GHz)	Keysight	E4438C	SEM006-03	2022-03-12	2023-03-11
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 2022-05-17	2022-05-18 2023-05-16
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19 2022-05-17	2022-05-18 2023-05-16
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15 2022-04-13	2022-04-14 2023-04-12
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	2022-03-02	2023-03-01
ESG Vector Signal Generator(250kHz- 6GHz)	Keysight	E4438C	SEM006-03	2022-03-12	2023-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter	Agilent	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18



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(U2021XA_Ch2)	Technologies			2022-05-17	2023-05-16
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
				2022-05-17	2023-05-16
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
				2022-04-13	2023-04-12
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
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-02	2023-03-01
ESG Vector Signal Generator(250kHz- 6GHz)	Keysight	E4438C	SEM006-03	2022-03-12	2023-03-11
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
				2022-05-17	2023-05-16
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
				2022-05-17	2023-05-16
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
				2022-04-13	2023-04-12
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	2022-03-02	2023-03-01
ESG Vector Signal Generator(250kHz- 6GHz)	Keysight	E4438C	SEM006-03	2022-03-12	2023-03-11
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
				2022-05-17	2023-05-16



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Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19 2022-05-17	2022-05-18 2023-05-16
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15 2022-04-13	2022-04-14 2023-04-12
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
EMI Test Receiver(10Hz- 26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)- Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2022-02-22	2025-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19 2022-05-17	2022-05-18 2023-05-16
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-12-17	2022-12-16
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2021-12-26	2023-12-25

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	2021-12-17	2022-12-16
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
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



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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
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-02	2023-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2022-03-12	2023-03-11
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
				2022-05-17	2023-05-16
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
				2022-05-17	2023-05-16
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
				2022-04-13	2023-04-12
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 (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16



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966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05



6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 Requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna 1: 4.39dBi; Antenna 2: 4.39dBi; the directional gain is: 7.40dBi.

Antenna location: Refer to external photo.

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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

7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)

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

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C

Humidity: 51.6 % RH

Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Mode
Final test Code Description

Pre-scan 01 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(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Final test 02 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(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Pre-scan 03 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



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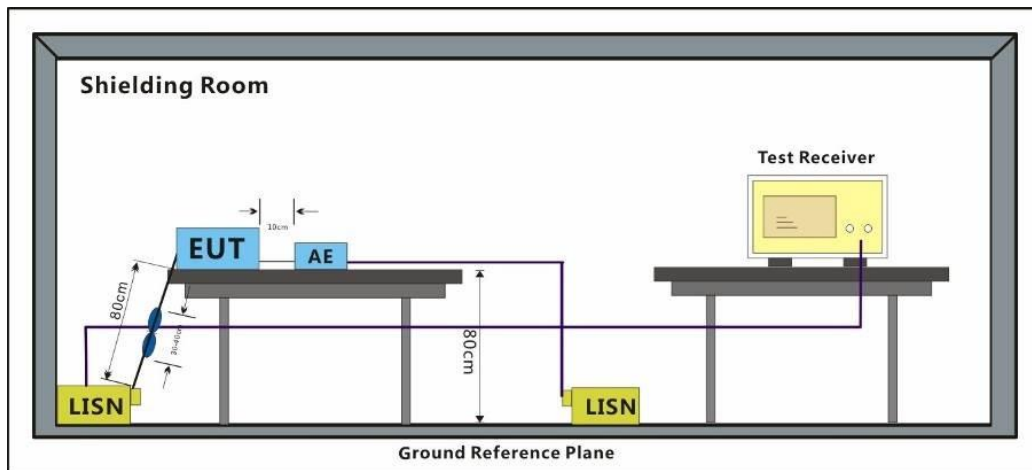
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tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Pre-scan 04

7.1.3 Test Setup Diagram

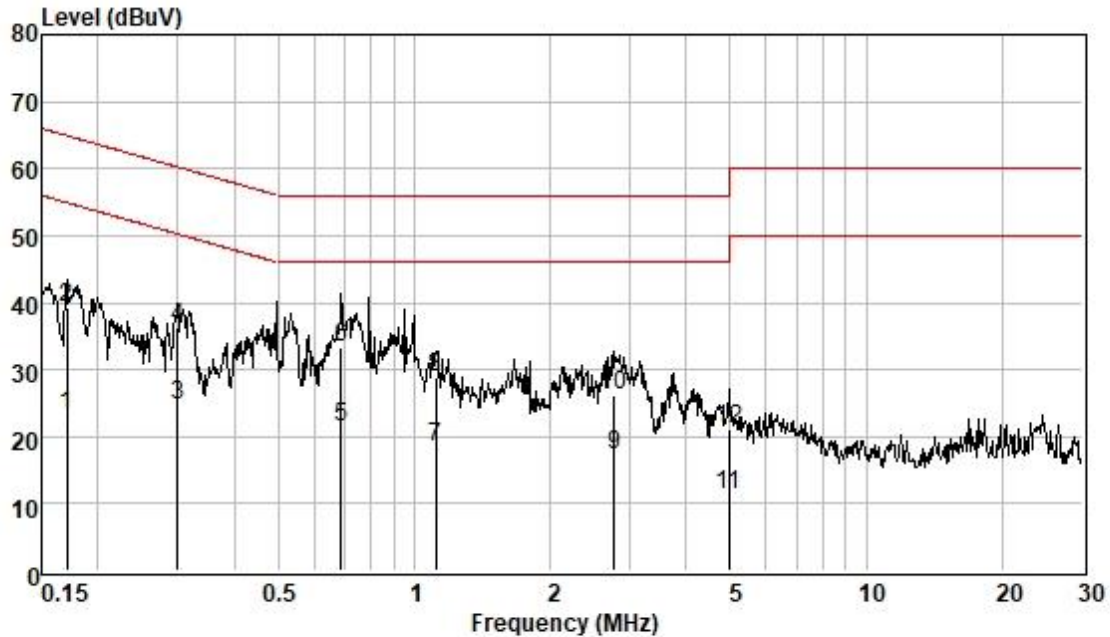


7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

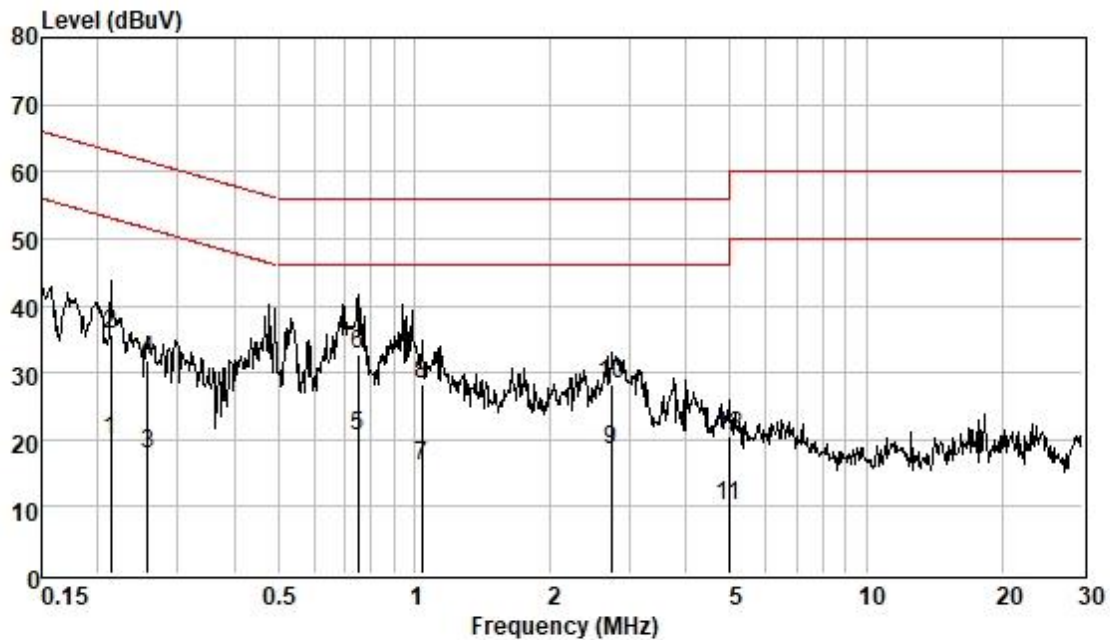
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

Test Mode: 02; Line: Live line Modulation:802.11a; Bandwidth:20MHz; Channel:Low

Pol : LINE
Mode :
Model :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.170	13.46	0.06	9.55	23.07	54.94	-31.87	Average
2	0.170	29.54	0.06	9.55	39.15	64.94	-25.79	QP
3	0.300	15.03	0.06	9.57	24.66	50.24	-25.58	Average
4	0.300	26.69	0.06	9.57	36.32	60.24	-23.92	QP
5	0.690	11.88	0.07	9.59	21.54	46.00	-24.46	Average
6	0.690	23.57	0.07	9.59	33.23	56.00	-22.77	QP
7	1.117	8.78	0.08	9.60	18.46	46.00	-27.54	Average
8	1.117	19.04	0.08	9.60	28.72	56.00	-27.28	QP
9	2.765	7.64	0.14	9.61	17.39	46.00	-28.61	Average
10	2.765	16.41	0.14	9.61	26.16	56.00	-29.84	QP
11	4.952	1.38	0.18	9.66	11.22	46.00	-34.78	Average
12	4.952	11.34	0.18	9.66	21.18	56.00	-34.82	QP

Test Mode: 02; Line: Neutral Line Modulation:802.11a; Bandwidth:20MHz; Channel:Low

Pol : NEUTRAL
Mode :
Model :

	Freque	Read	Cable	LISN	Measured	Limit	Over	Remark
	nc	Level	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.214	10.31	0.06	9.55	19.92	53.05	-33.13	Average
2	0.214	26.09	0.06	9.55	35.70	63.05	-27.35	QP
3	0.258	8.12	0.06	9.56	17.74	51.51	-33.77	Average
4	0.258	22.13	0.06	9.56	31.75	61.51	-29.76	QP
5	0.751	10.99	0.07	9.59	20.65	46.00	-25.35	Average
6	0.751	22.93	0.07	9.59	32.59	56.00	-23.41	QP
7	1.037	6.35	0.07	9.59	16.01	46.00	-29.99	Average
8	1.037	18.72	0.07	9.59	28.38	56.00	-27.62	QP
9	2.721	8.82	0.14	9.60	18.56	46.00	-27.44	Average
10	2.721	18.43	0.14	9.60	28.17	56.00	-27.83	QP
11	4.952	0.40	0.18	9.66	10.24	46.00	-35.76	Average
12	4.952	10.71	0.18	9.66	20.55	56.00	-35.45	QP

7.2 Duty Cycle

Test Requirement

KDB 789033 D02 v02r01 II B 1

Test Method:

ANSI C63.10 (2013) Section 12.2

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C

Humidity: 50.9 % RH

Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Mode
Final test Code

Description

Final test 01

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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Final test 02

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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Final test 03

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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Final test 04

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.

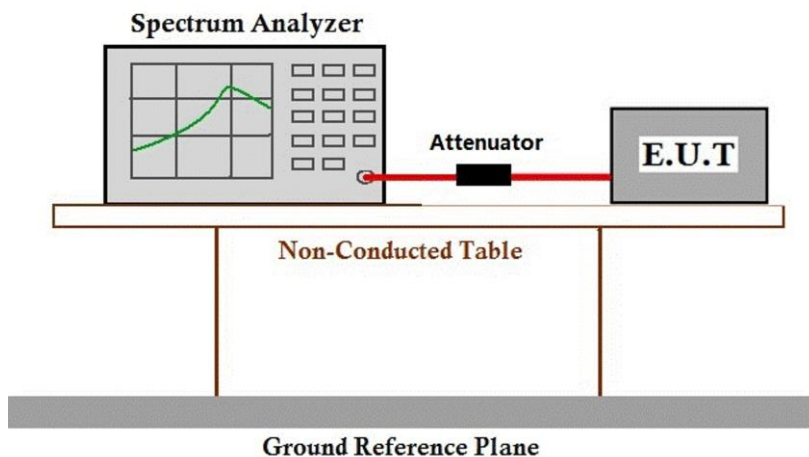


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IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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 99% Bandwidth

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

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 21.3 °C Humidity: 50.9 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
		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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	04	

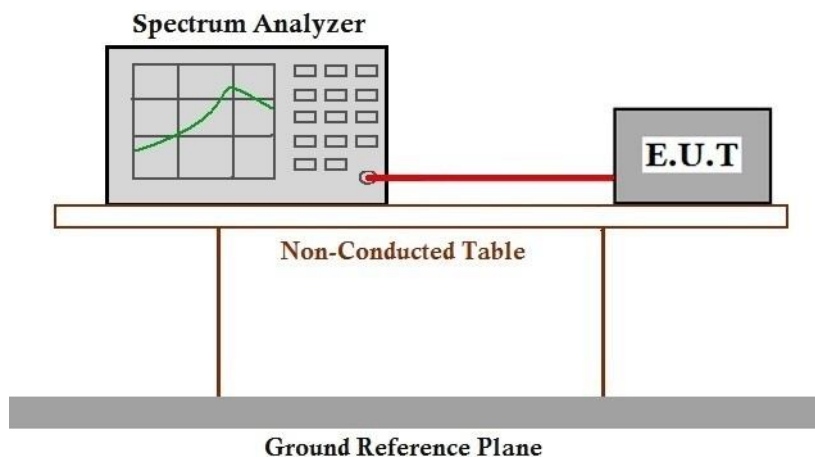


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IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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 26dB Emission bandwidth

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

7.4.1 E.U.T. Operation

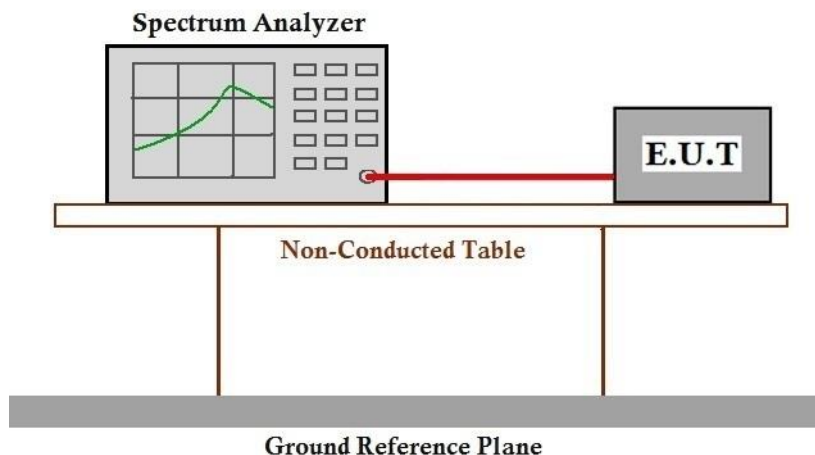
Operating Environment:

Temperature: 21.3 °C Humidity: 50.9 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
		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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	03	

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.5 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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C

Humidity: 50.9 % RH

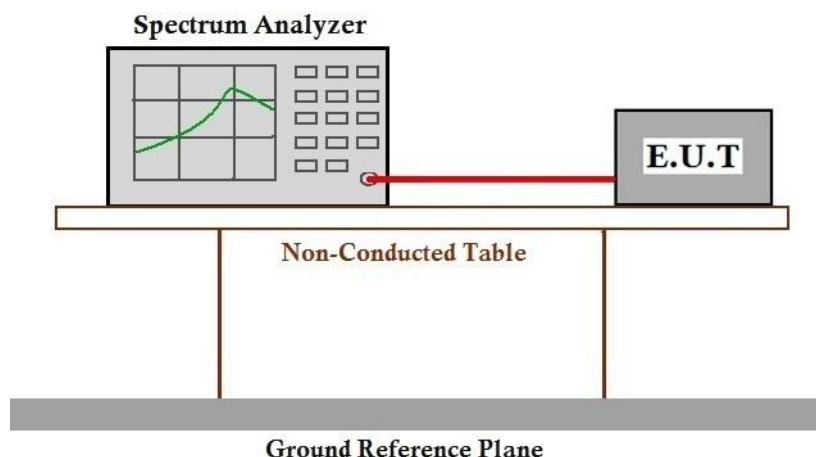
Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	

Final test 04

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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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



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7.6 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 50.9 % RH Atmospheric Pressure: 1015 mbar

7.6.2 Test Mode Description

Pre-scan / Mode
Final test Code Description

Final test 01 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Final test 02 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.



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Final test 03

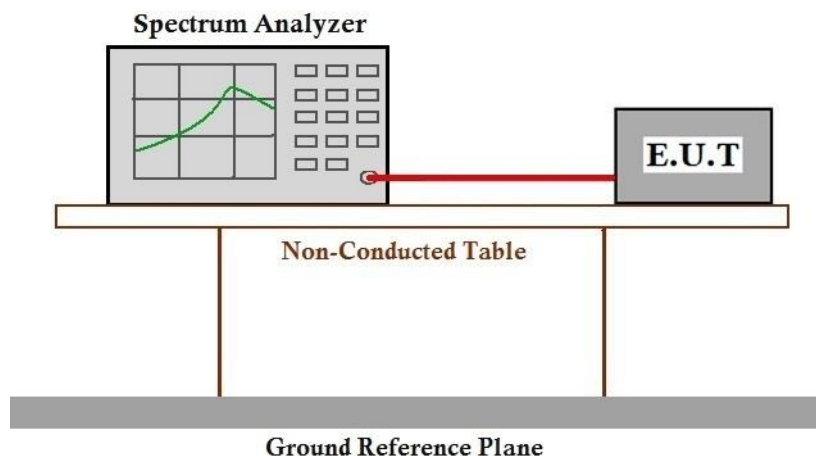
802.11ax(HE80). Only the data of worst case is recorded in the report.

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(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Final test 04

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(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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 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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C

Humidity: 50.9 % RH

Atmospheric Pressure: 1015 mbar

7.7.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	

Final test 01

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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Final test 02

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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Final test 03

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



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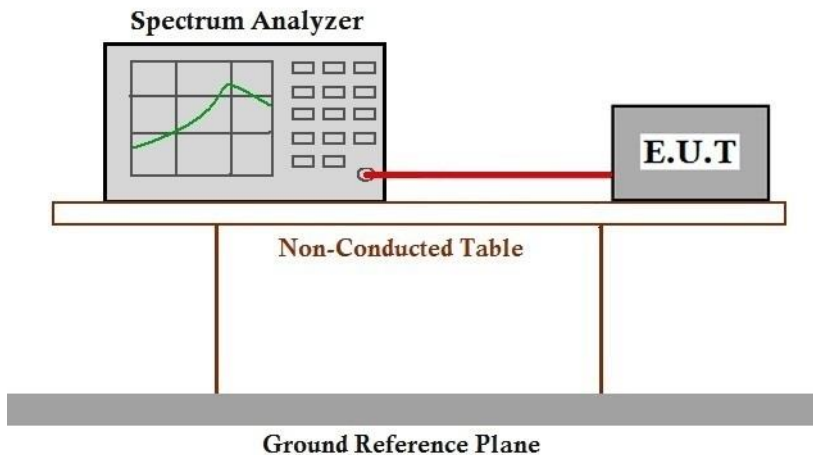
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tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Final test 04

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Radiated Emissions (below 1GHz)

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

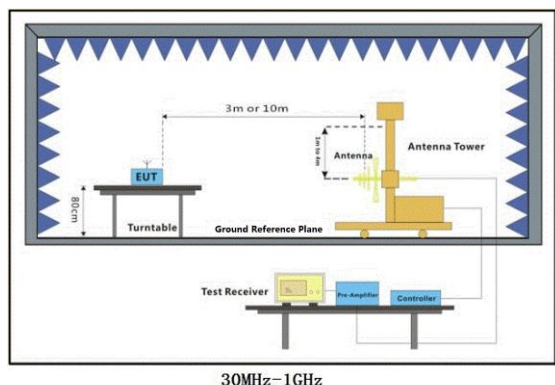
Operating Environment:

Temperature: 20.4 °C Humidity: 50.6 % RH Atmospheric Pressure: 1015 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report. 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report. 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Pre-scan	02	
Pre-scan	03	
Pre-scan	04	

7.8.3 Test Setup Diagram



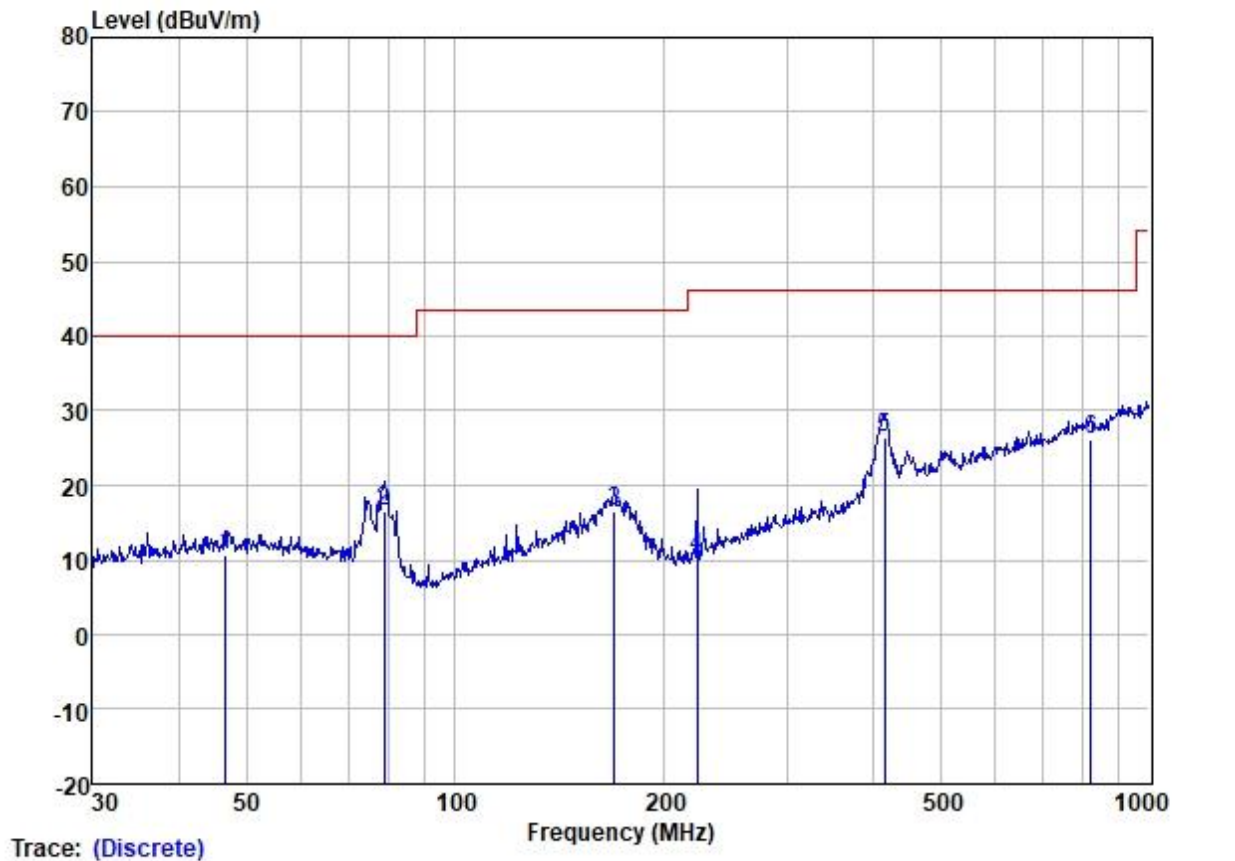
7.8.4 Measurement Procedure and Data

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

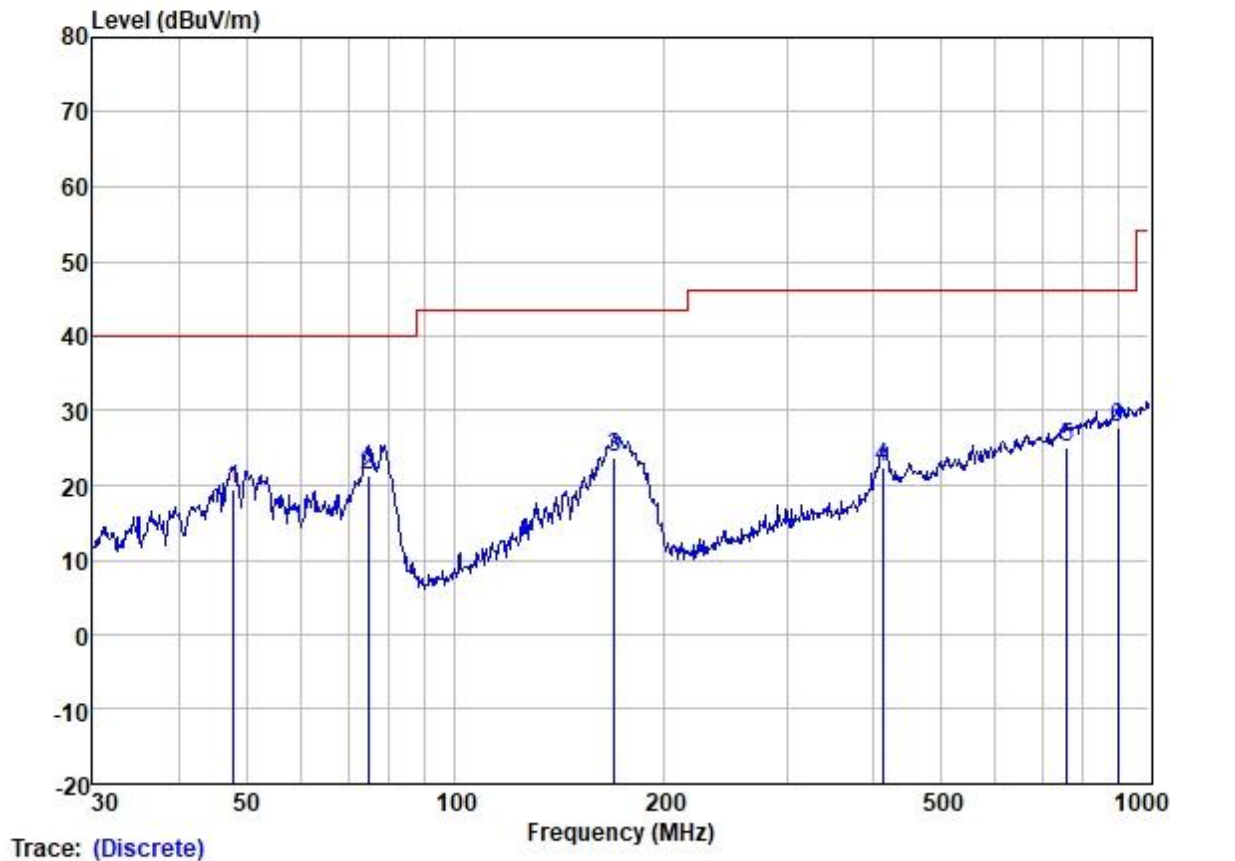
Test Mode: 01; Polarity: Horizontal Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : SGS
Job :
Model :
Power :
Test Mode : 5G WIFI

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	46.666	23.30	13.51	1.13	27.17	10.77	40.00	-29.23	HORIZONTAL	QP
2	78.965	33.00	9.09	1.47	27.10	16.46	40.00	-23.54	HORIZONTAL	QP
3	169.599	28.16	12.76	2.39	26.77	16.54	43.50	-26.96	HORIZONTAL	QP
4	222.950	24.80	9.74	2.67	26.70	10.51	46.00	-35.49	HORIZONTAL	QP
5	416.179	34.11	15.74	4.01	27.40	26.46	46.00	-19.54	HORIZONTAL	QP
6	824.597	25.05	22.66	6.30	27.99	26.02	46.00	-19.98	HORIZONTAL	QP

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



Site : SGS
Job :
Model :
Power :
Test Mode : 5G WIFI

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	47.826	31.96	13.55	1.13	27.17	19.47	40.00	-20.53	VERTICAL	QP
2	74.919	36.76	10.15	1.45	27.11	21.25	40.00	-18.75	VERTICAL	QP
3	169.599	35.32	12.76	2.39	26.77	23.70	43.50	-19.80	VERTICAL	QP
4	413.271	30.26	15.66	3.99	27.39	22.52	46.00	-23.48	VERTICAL	QP
5	760.704	25.22	22.03	6.01	28.07	25.19	46.00	-20.81	VERTICAL	QP
6	900.147	25.21	23.32	6.92	27.85	27.60	46.00	-18.40	VERTICAL	QP

7.9 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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 50.6 % RH Atmospheric Pressure: 1015 mbar

7.9.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	

Final test 01	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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
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Final test 02	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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
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Final test 03	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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
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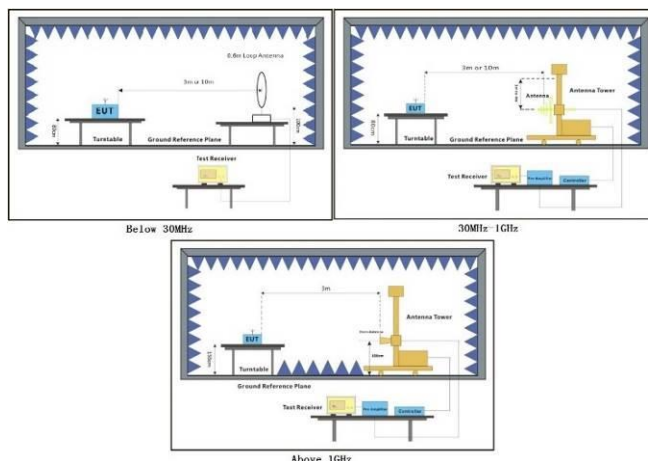
Final test 04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
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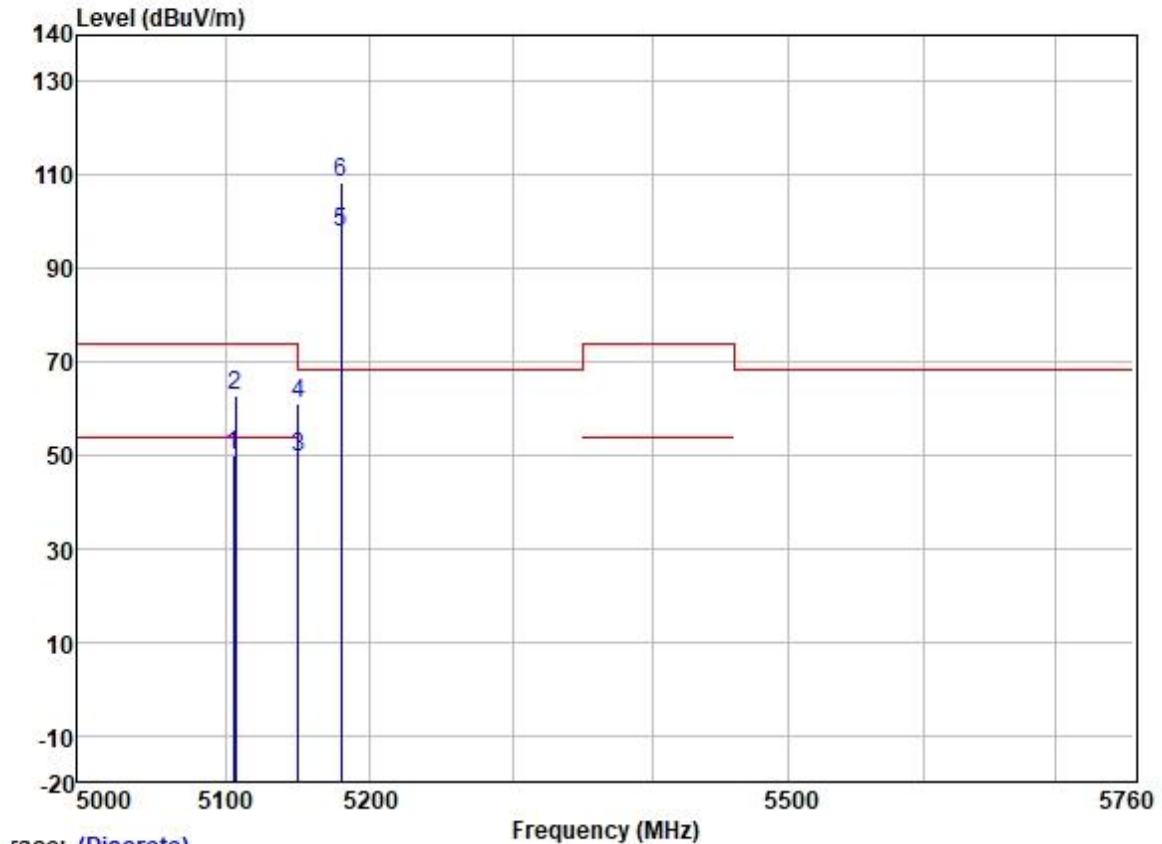
7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

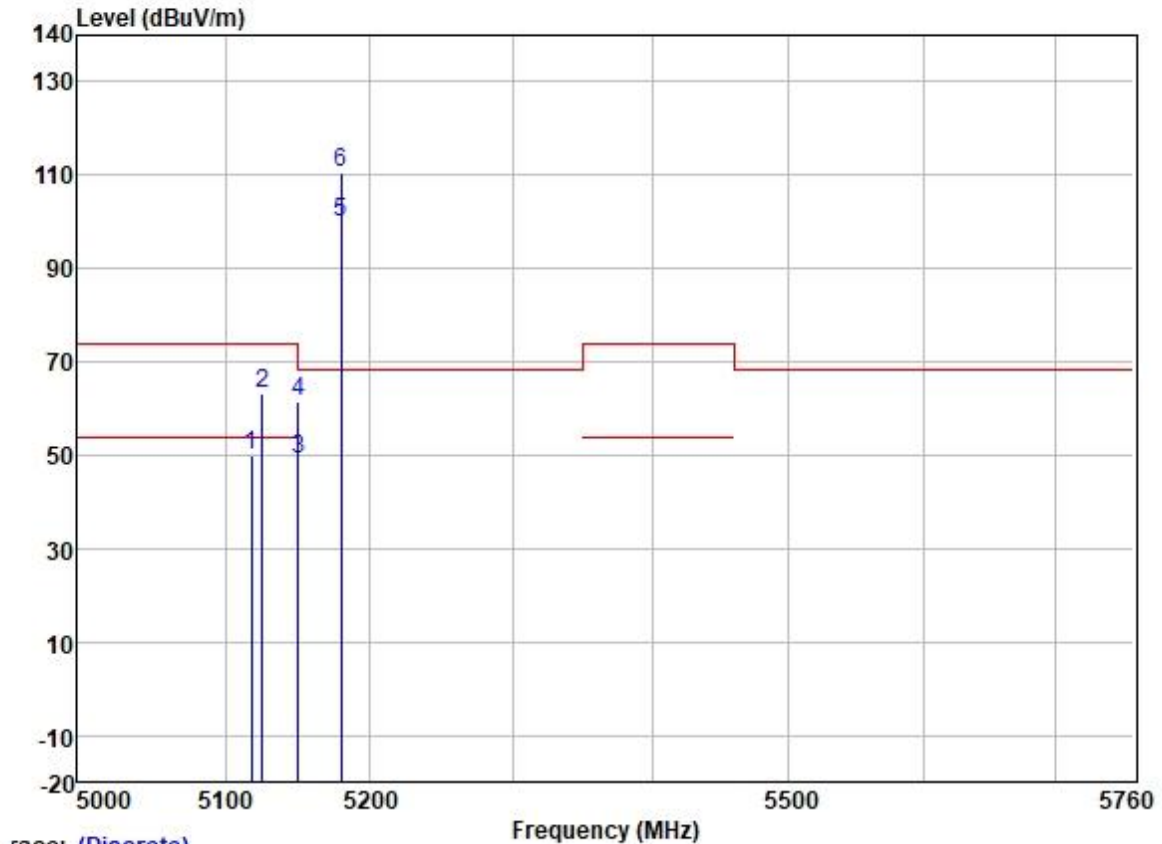
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters 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: 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	5105.549	49.30	31.72	5.65	36.86	49.81	54.00	-4.19	HORIZONTAL Average
2	5107.036	62.44	31.72	5.65	36.86	62.95	74.00	-11.05	HORIZONTAL Peak
3	5149.980	48.88	31.72	5.62	36.86	49.36	54.00	-4.64	HORIZONTAL Average
4	5149.980	60.61	31.72	5.62	36.86	61.09	74.00	-12.91	HORIZONTAL Peak
5	5180.000	97.46	31.73	5.61	36.87	97.93	-----	-----	HORIZONTAL Average
6 *	5180.000	107.82	31.73	5.61	36.87	108.29	68.20	40.09	HORIZONTAL Peak

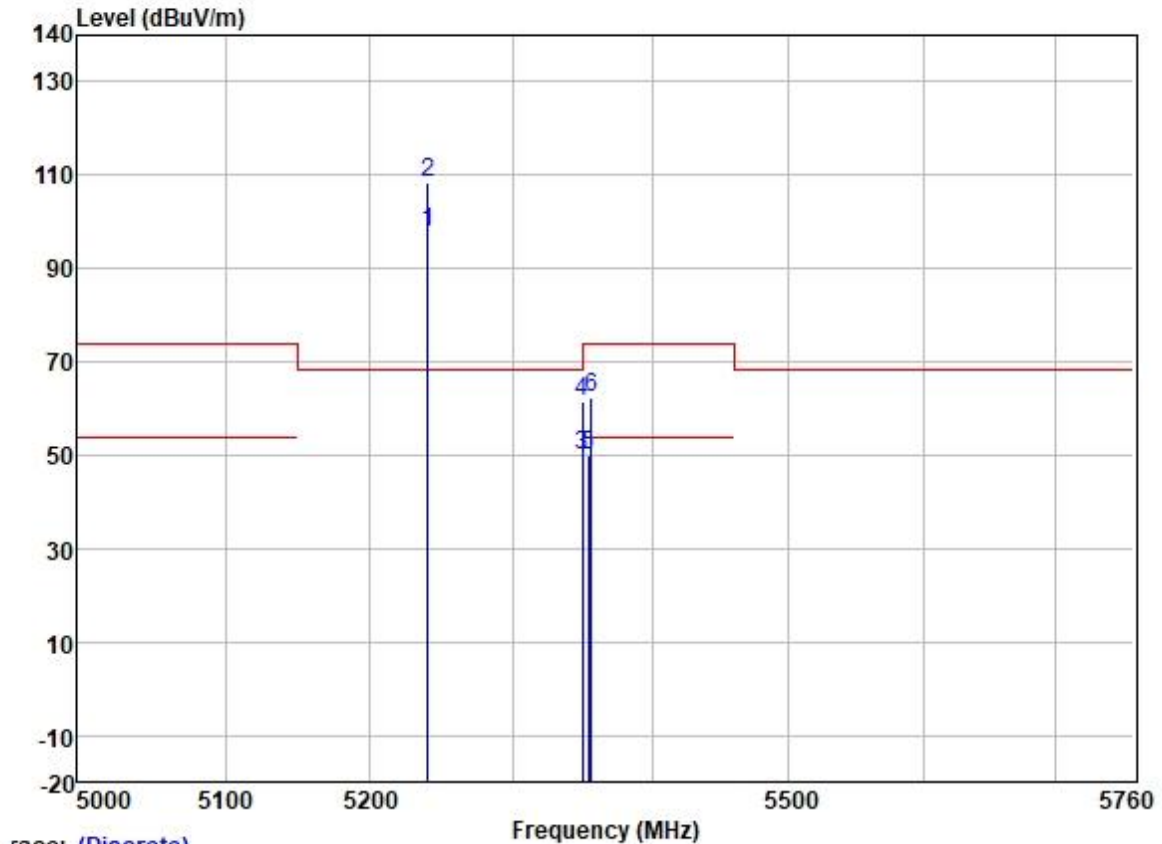
Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	dBuV/m	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5117.658	49.31	31.72	5.64	36.86	49.81	54.00	-4.19	VERTICAL	Average
2	5125.316	62.56	31.72	5.64	36.86	63.06	74.00	-10.94	VERTICAL	Peak
3	5149.980	48.80	31.72	5.62	36.86	49.28	54.00	-4.72	VERTICAL	Average
4	5149.980	61.04	31.72	5.62	36.86	61.52	74.00	-12.48	VERTICAL	Peak
5	5180.000	99.21	31.73	5.61	36.87	99.68	-----	-----	VERTICAL	Average
6 *	5180.000	109.99	31.73	5.61	36.87	110.46	68.20	42.26	VERTICAL	Peak

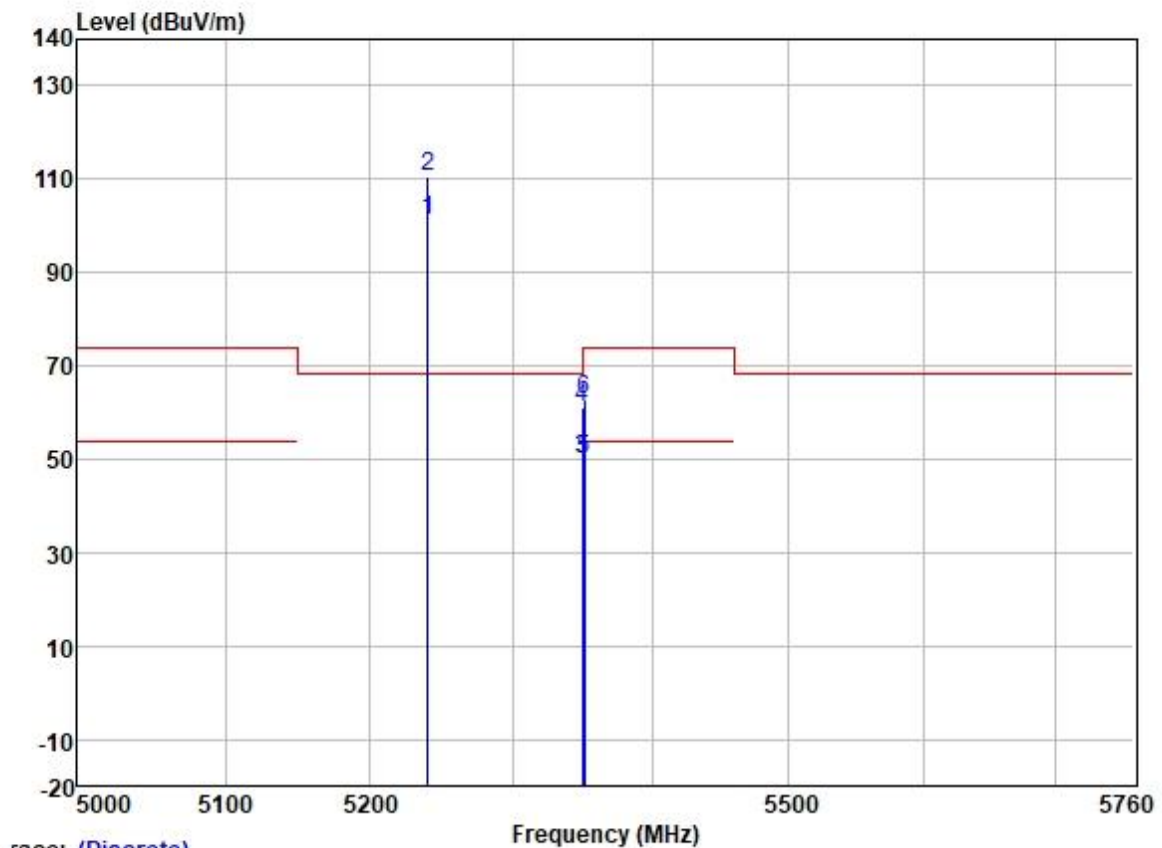
Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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	5240.000	97.04	31.75	5.74	36.87	97.66	-----	-----	HORIZONTAL Average
2 *	5240.000	107.80	31.75	5.74	36.87	108.42	68.20	40.22	HORIZONTAL Peak
3	5350.020	48.85	31.77	6.05	36.88	49.79	54.00	-4.21	HORIZONTAL Average
4	5350.020	60.46	31.77	6.05	36.88	61.40	74.00	-12.60	HORIZONTAL Peak
5	5354.187	49.00	31.78	6.03	36.88	49.93	54.00	-4.07	HORIZONTAL Average
6	5356.313	61.55	31.78	6.03	36.88	62.48	74.00	-11.52	HORIZONTAL Peak

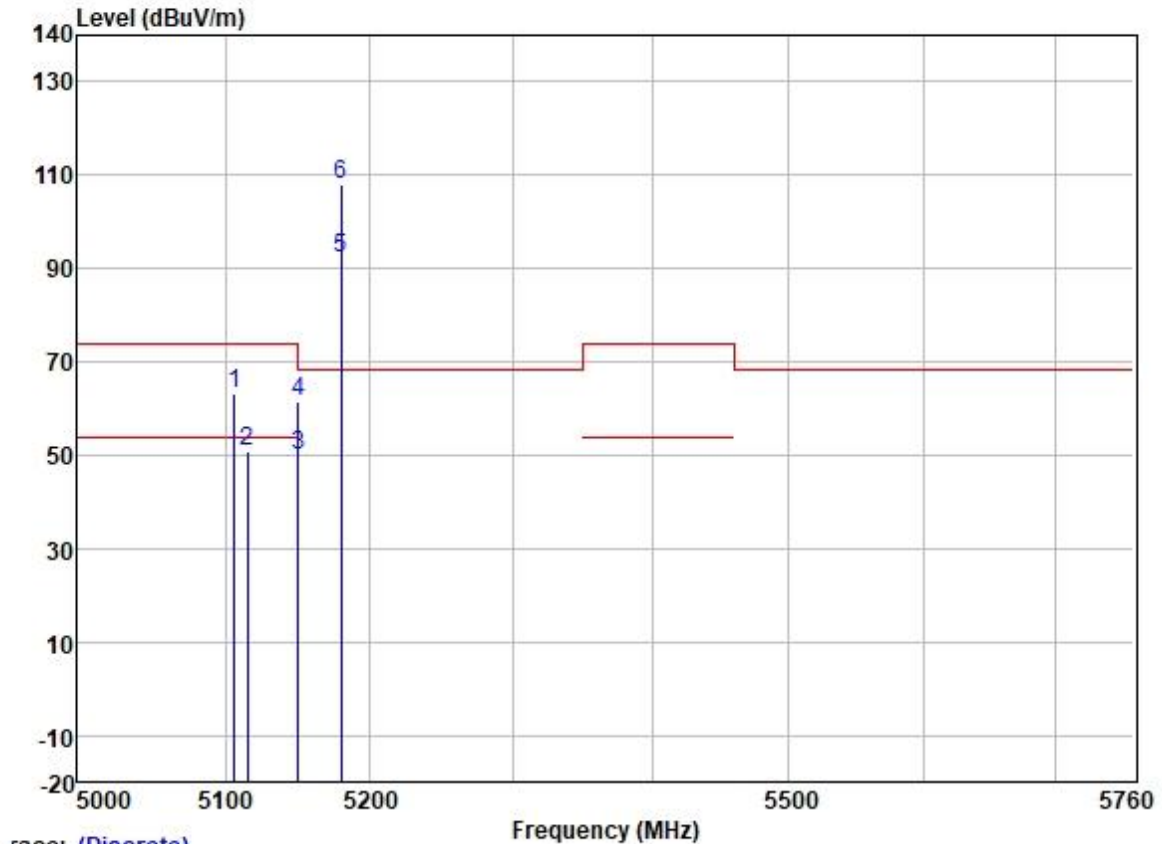
Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

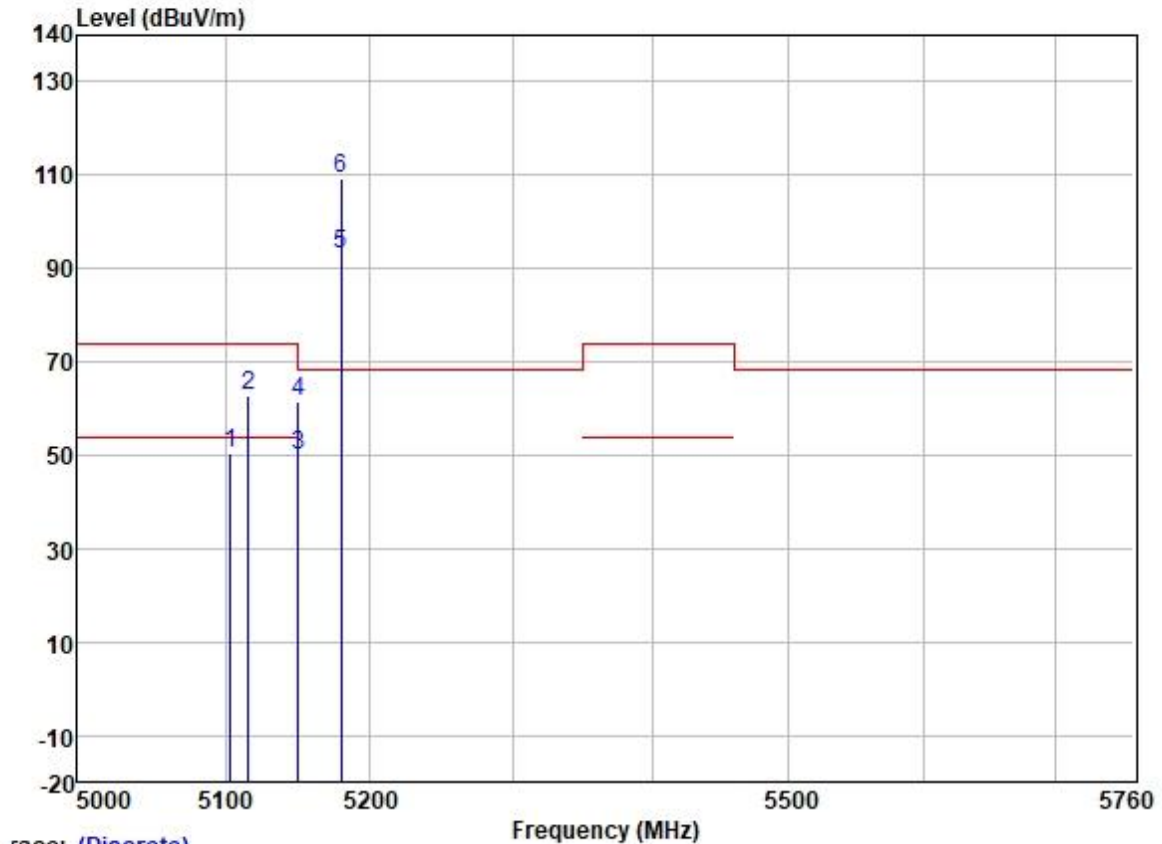
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	100.47	31.75	5.74	36.87	101.09	-----	-----	VERTICAL Average
2	* 5240.000	109.82	31.75	5.74	36.87	110.44	68.20	42.24	VERTICAL Peak
3	5350.020	48.91	31.77	6.05	36.88	49.85	54.00	-4.15	VERTICAL Average
4	5350.020	60.27	31.77	6.05	36.88	61.21	74.00	-12.79	VERTICAL Peak
5	5350.787	48.92	31.77	6.05	36.88	49.86	54.00	-4.14	VERTICAL Average
6	5351.354	62.04	31.77	6.05	36.88	62.98	74.00	-11.02	VERTICAL Peak

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; 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	5105.945	62.71	31.72	5.65	36.86	63.22	74.00	-10.78	HORIZONTAL Peak
2	5115.075	50.28	31.72	5.64	36.86	50.78	54.00	-3.22	HORIZONTAL Average
3	5149.980	49.55	31.72	5.62	36.86	50.03	54.00	-3.97	HORIZONTAL Average
4	5149.980	60.99	31.72	5.62	36.86	61.47	74.00	-12.53	HORIZONTAL Peak
5	5180.000	91.87	31.73	5.61	36.87	92.34	-----	-----	HORIZONTAL Average
6 *	5180.000	107.34	31.73	5.61	36.87	107.81	68.20	39.61	HORIZONTAL Peak

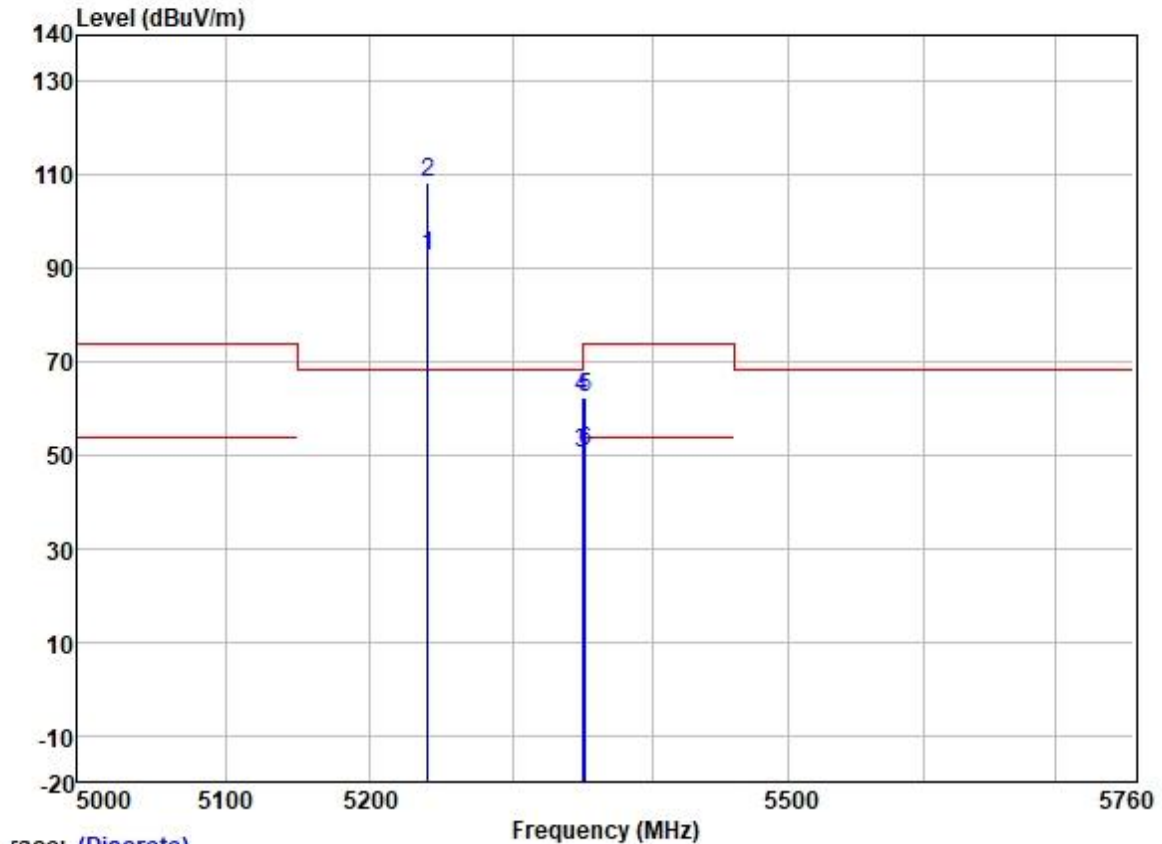
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5103.566	49.97	31.72	5.65	36.86	50.48	54.00	-3.52	VERTICAL	Average
2	5115.870	62.20	31.72	5.64	36.86	62.70	74.00	-11.30	VERTICAL	Peak
3	5149.980	49.43	31.72	5.62	36.86	49.91	54.00	-4.09	VERTICAL	Average
4	5149.980	61.10	31.72	5.62	36.86	61.58	74.00	-12.42	VERTICAL	Peak
5	5180.000	92.47	31.73	5.61	36.87	92.94	-----	-----	VERTICAL	Average
6 *	5180.000	109.02	31.73	5.61	36.87	109.49	68.20	41.29	VERTICAL	Peak

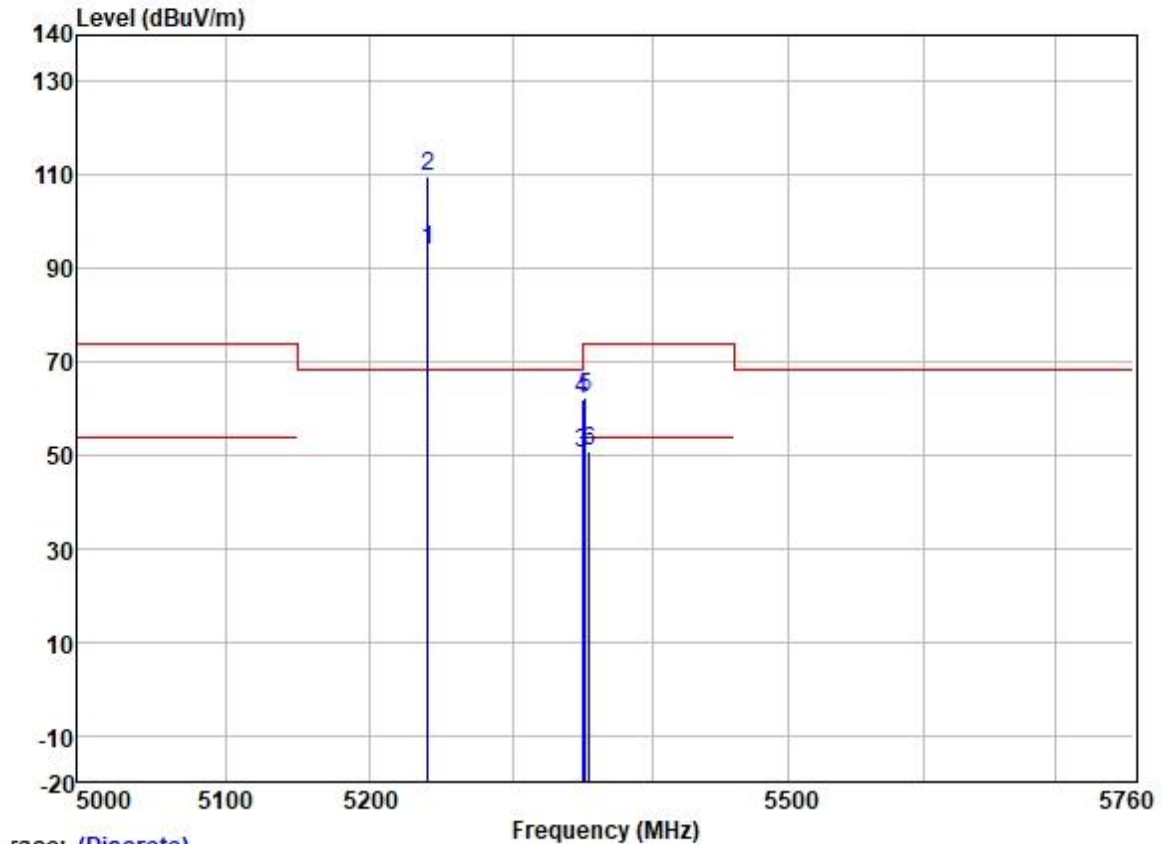
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	92.11	31.75	5.74	36.87	92.73	-----	-----	HORIZONTAL Average
2 *	5240.000	107.94	31.75	5.74	36.87	108.56	68.20	40.36	HORIZONTAL Peak
3	5350.020	49.58	31.77	6.05	36.88	50.52	54.00	-3.48	HORIZONTAL Average
4	5350.020	61.51	31.77	6.05	36.88	62.45	74.00	-11.55	HORIZONTAL Peak
5	5351.637	61.47	31.77	6.05	36.88	62.41	74.00	-11.59	HORIZONTAL Peak
6	5352.203	49.76	31.77	6.05	36.88	50.70	54.00	-3.30	HORIZONTAL Average

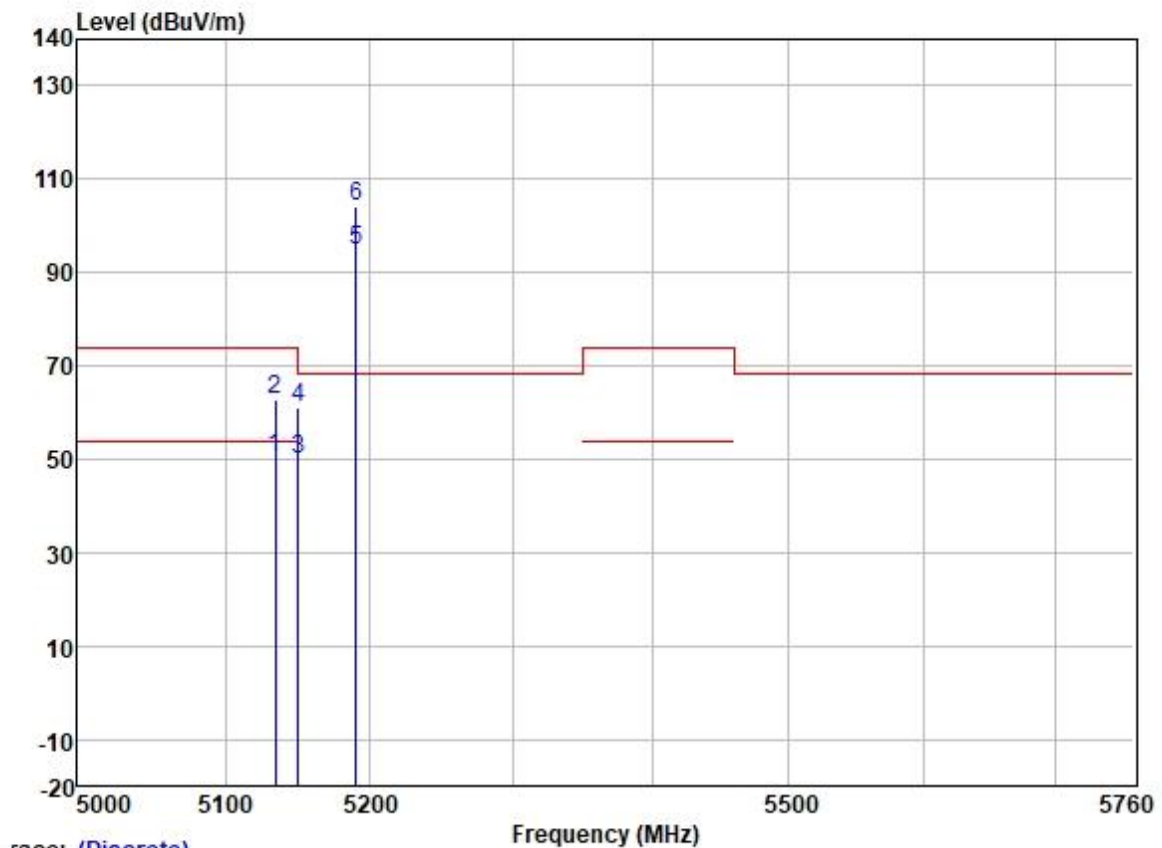
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

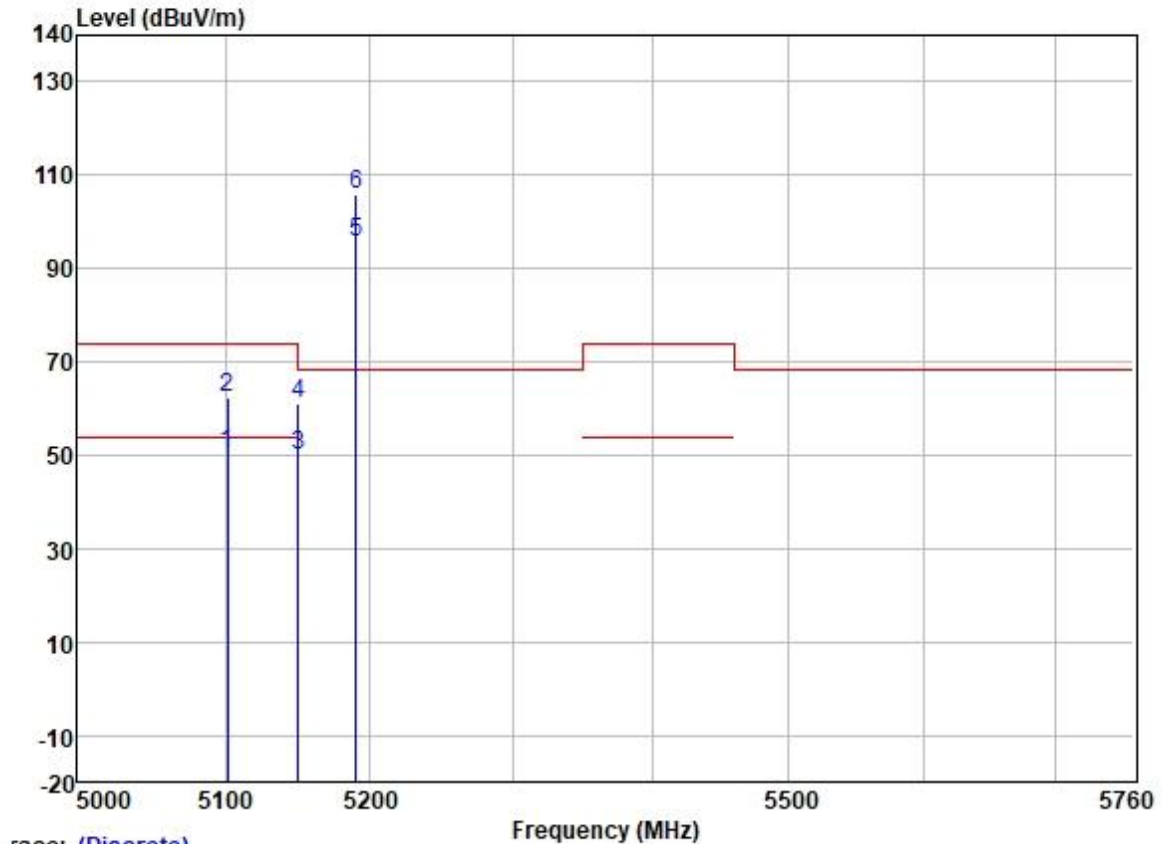
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	93.22	31.75	5.74	36.87	93.84	-----	VERTICAL	Average
2 *	5240.000	109.28	31.75	5.74	36.87	109.90	68.20	41.70 VERTICAL	Peak
3	5350.020	49.43	31.77	6.05	36.88	50.37	54.00	-3.63 VERTICAL	Average
4	5350.020	60.89	31.77	6.05	36.88	61.83	74.00	-12.17 VERTICAL	Peak
5	5352.203	61.46	31.77	6.05	36.88	62.40	74.00	-11.60 VERTICAL	Peak
6	5354.470	49.75	31.78	6.03	36.88	50.68	54.00	-3.32 VERTICAL	Average

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



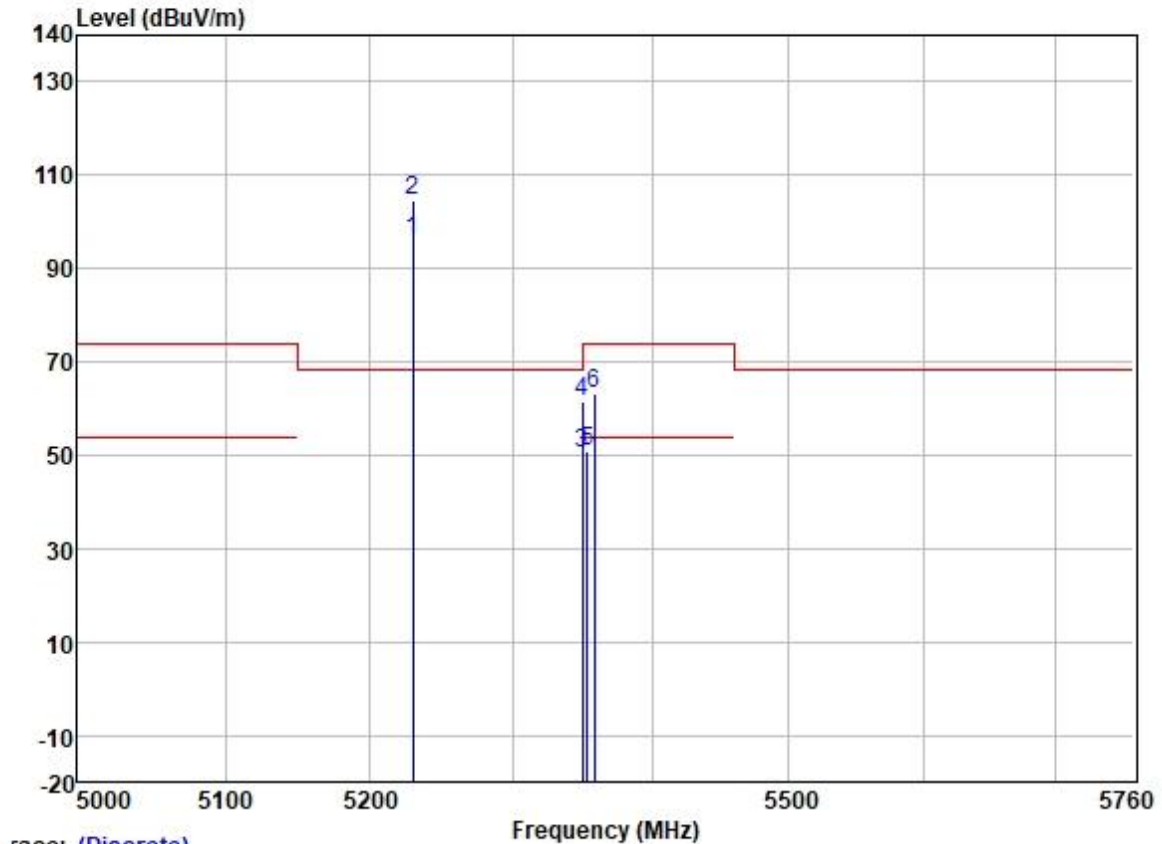
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5134.513	50.06	31.72	5.63	36.86	50.55	54.00	-3.45	HORIZONTAL Average
2	5134.513	62.35	31.72	5.63	36.86	62.84	74.00	-11.16	HORIZONTAL Peak
3	5149.980	49.52	31.72	5.62	36.86	50.00	54.00	-4.00	HORIZONTAL Average
4	5149.980	60.79	31.72	5.62	36.86	61.27	74.00	-12.73	HORIZONTAL Peak
5	5190.000	94.45	31.73	5.60	36.87	94.91	-----	-----	HORIZONTAL Average
6 *	5190.000	103.91	31.73	5.60	36.87	104.37	68.20	36.17	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	5101.305	50.01	31.72	5.65	36.86	50.52	54.00	-3.48	VERTICAL
2	5101.305	61.89	31.72	5.65	36.86	62.40	74.00	-11.60	VERTICAL
3	5149.980	49.56	31.72	5.62	36.86	50.04	54.00	-3.96	VERTICAL
4	5149.980	60.72	31.72	5.62	36.86	61.20	74.00	-12.80	VERTICAL
5	5190.000	95.38	31.73	5.60	36.87	95.84	-----	-----	VERTICAL
6 *	5190.000	105.33	31.73	5.60	36.87	105.79	68.20	37.59	VERTICAL

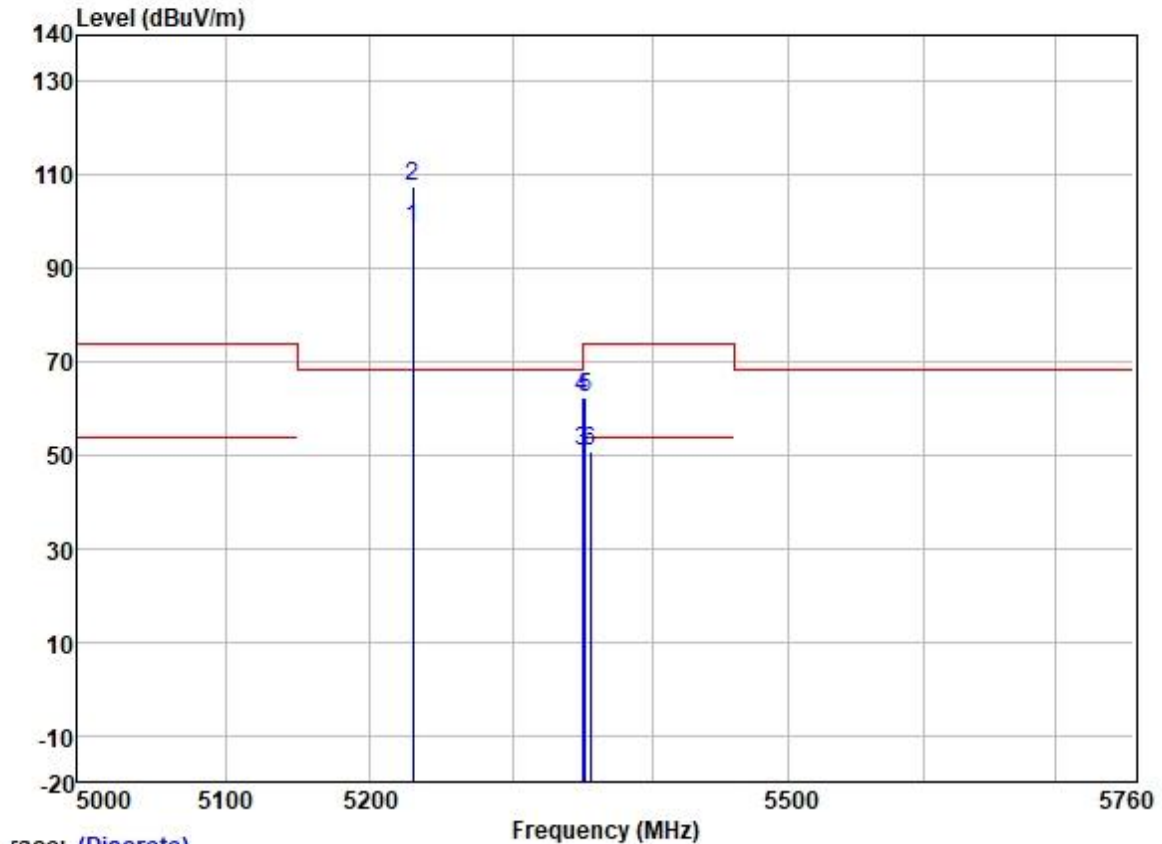
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

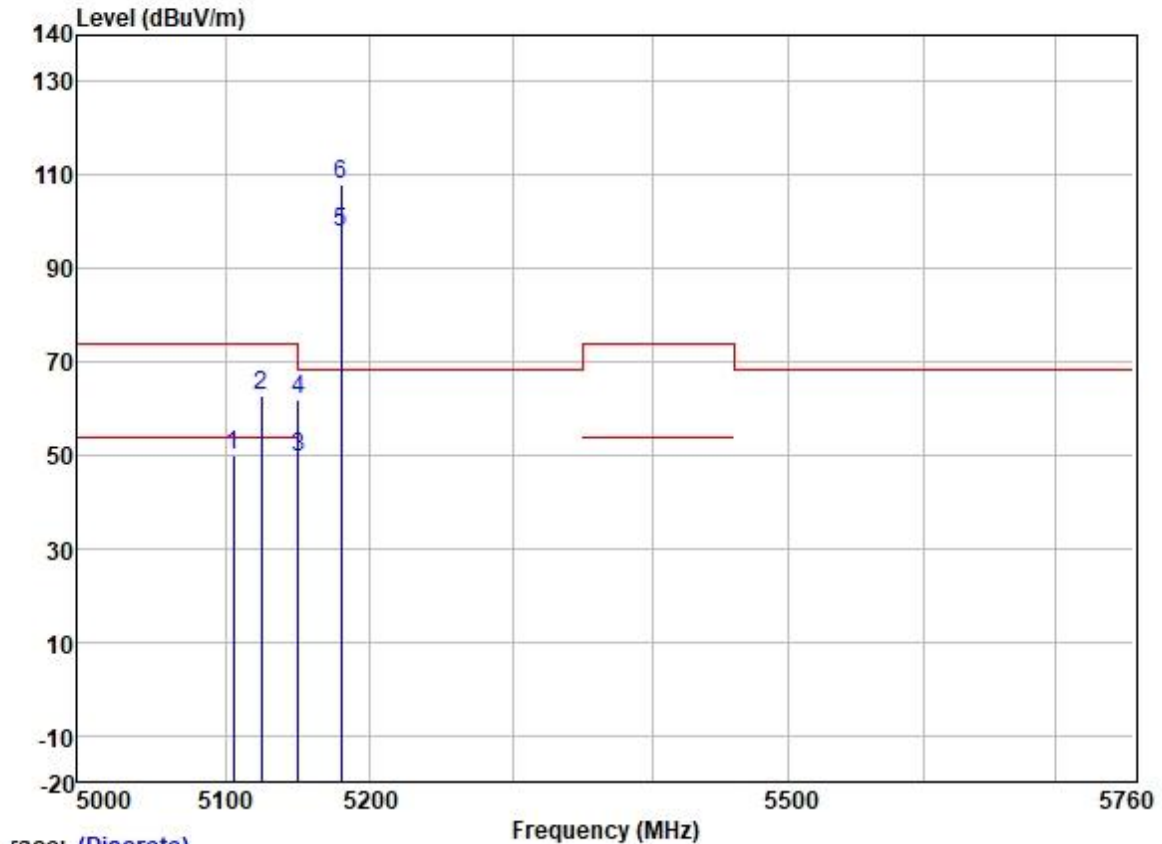
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	95.36	31.74	5.70	36.87	95.93	-----	-----	HORIZONTAL Average
2	* 5230.000	104.18	31.74	5.70	36.87	104.75	68.20	36.55	HORIZONTAL Peak
3	5350.020	49.53	31.77	6.05	36.88	50.47	54.00	-3.53	HORIZONTAL Average
4	5350.020	60.52	31.77	6.05	36.88	61.46	74.00	-12.54	HORIZONTAL Peak
5	5353.344	49.81	31.77	6.05	36.88	50.75	54.00	-3.25	HORIZONTAL Average
6	5358.376	62.29	31.78	6.03	36.88	63.22	74.00	-10.78	HORIZONTAL Peak

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



	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	98.03	31.74	5.70	36.87	98.60	-----	-----	VERTICAL Average
2	* 5230.000	106.93	31.74	5.70	36.87	107.50	68.20	39.30	VERTICAL Peak
3	5350.020	49.72	31.77	6.05	36.88	50.66	54.00	-3.34	VERTICAL Average
4	5350.020	61.44	31.77	6.05	36.88	62.38	74.00	-11.62	VERTICAL Peak
5	5351.560	61.51	31.77	6.05	36.88	62.45	74.00	-11.55	VERTICAL Peak
6	5355.129	49.70	31.78	6.03	36.88	50.63	54.00	-3.37	VERTICAL Average

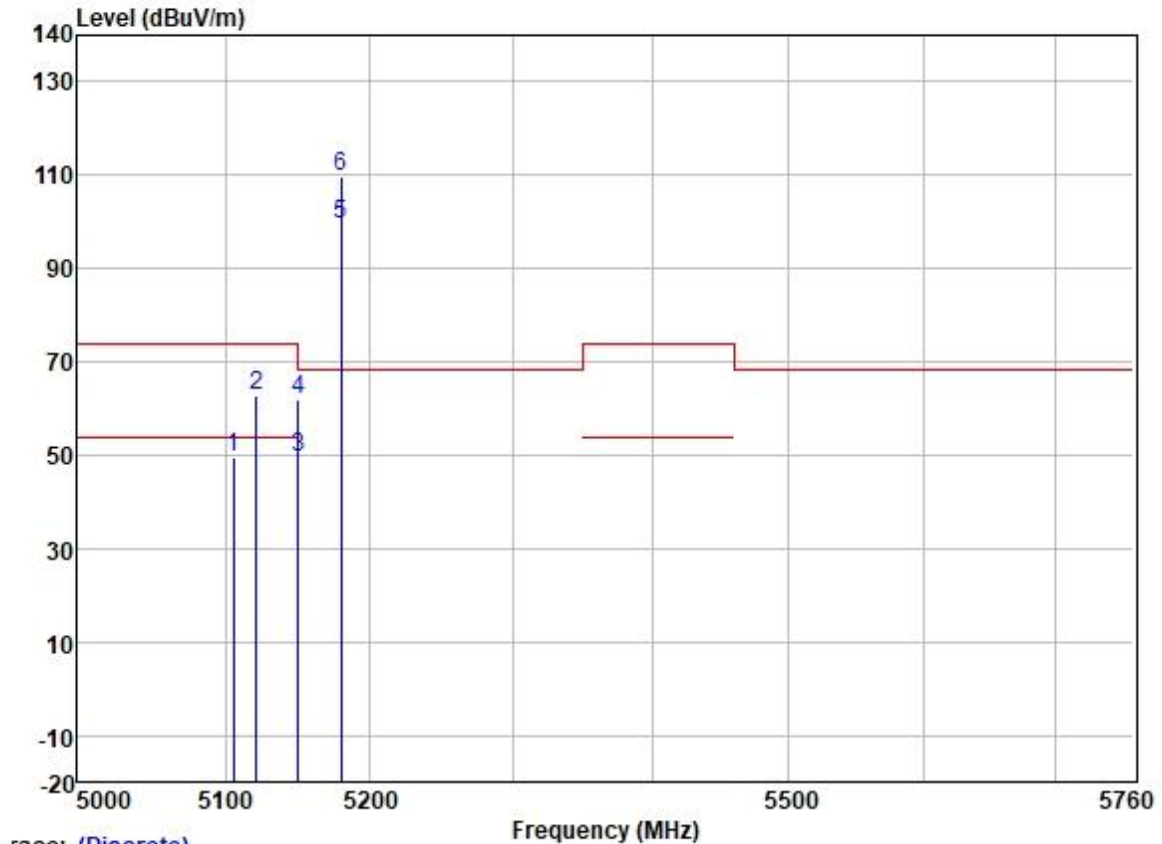
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



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	5105.351	49.27	31.72	5.65	36.86	49.78	54.00	-4.22	HORIZONTAL	Average
2	5124.818	62.07	31.72	5.64	36.86	62.57	74.00	-11.43	HORIZONTAL	Peak
3	5149.980	48.90	31.72	5.62	36.86	49.38	54.00	-4.62	HORIZONTAL	Average
4	5149.980	61.54	31.72	5.62	36.86	62.02	74.00	-11.98	HORIZONTAL	Peak
5	5180.000	97.24	31.73	5.61	36.87	97.71	-----	-----	HORIZONTAL	Average
6 *	5180.000	107.50	31.73	5.61	36.87	107.97	68.20	39.77	HORIZONTAL	Peak

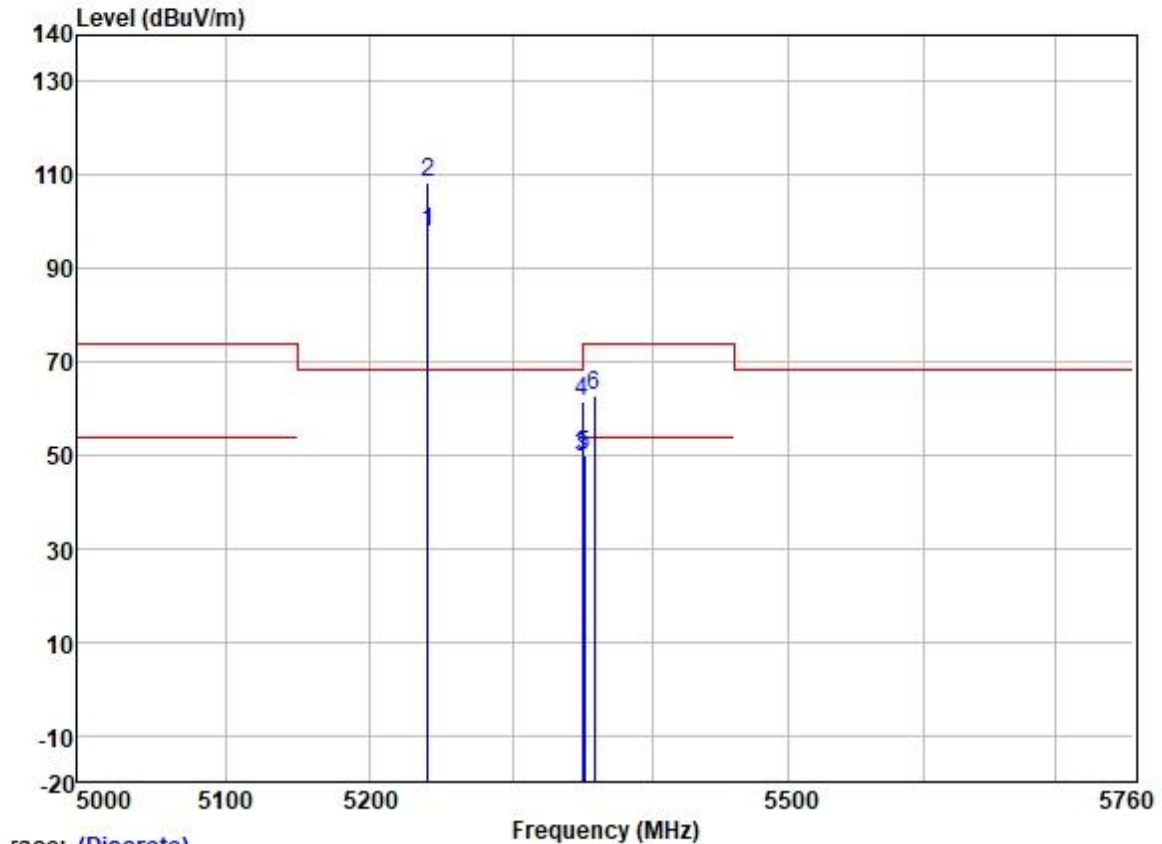
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



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	5105.747	49.19	31.72	5.65	36.86	49.70	54.00	-4.30	VERTICAL
2	5121.336	62.08	31.72	5.64	36.86	62.58	74.00	-11.42	VERTICAL
3	5149.980	48.87	31.72	5.62	36.86	49.35	54.00	-4.65	VERTICAL
4	5149.980	61.29	31.72	5.62	36.86	61.77	74.00	-12.23	VERTICAL
5	5180.000	98.86	31.73	5.61	36.87	99.33	-----	-----	VERTICAL
6 *	5180.000	109.44	31.73	5.61	36.87	109.91	68.20	41.71	VERTICAL

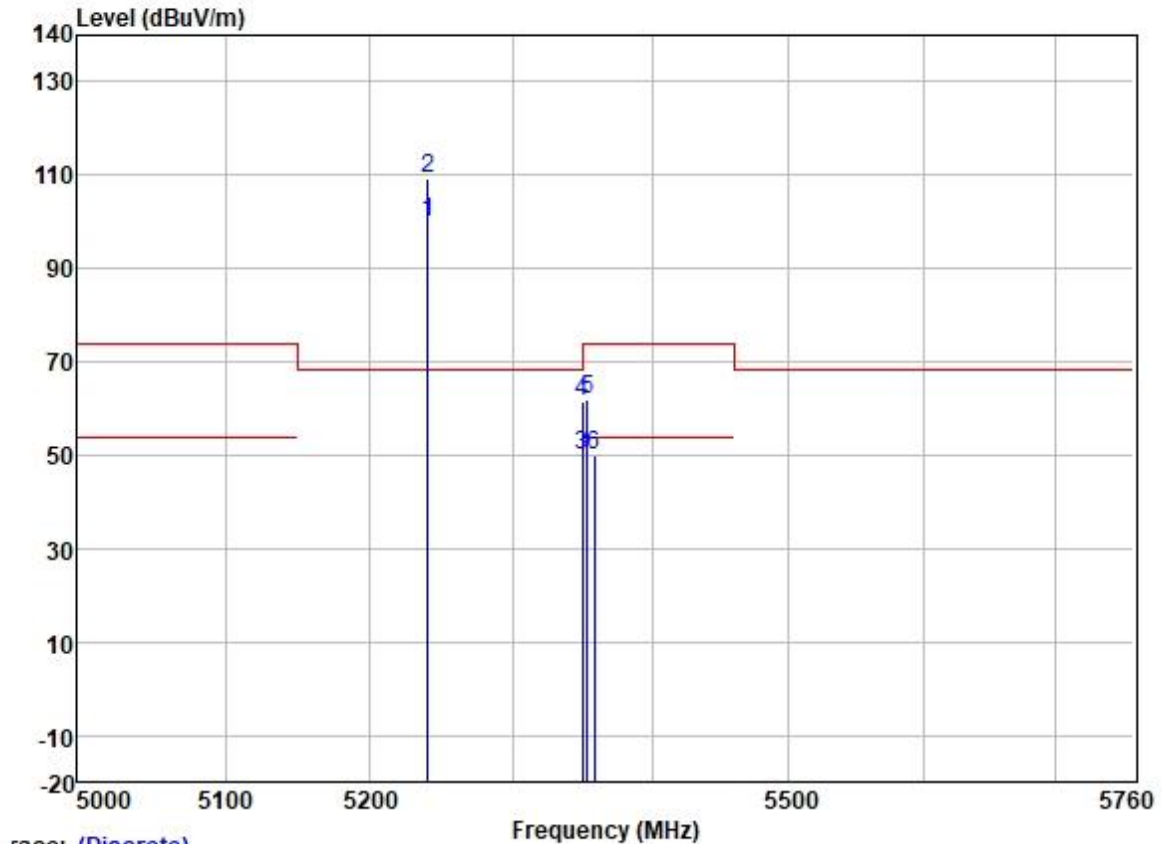
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



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	5240.000	97.00	31.75	5.74	36.87	97.62	-----	-----	HORIZONTAL	Average
2 *	5240.000	107.81	31.75	5.74	36.87	108.43	68.20	40.23	HORIZONTAL	Peak
3	5350.020	48.80	31.77	6.05	36.88	49.74	54.00	-4.26	HORIZONTAL	Average
4	5350.020	60.69	31.77	6.05	36.88	61.63	74.00	-12.37	HORIZONTAL	Peak
5	5351.495	48.96	31.77	6.05	36.88	49.90	54.00	-4.10	HORIZONTAL	Average
6	5358.582	61.88	31.78	6.03	36.88	62.81	74.00	-11.19	HORIZONTAL	Peak

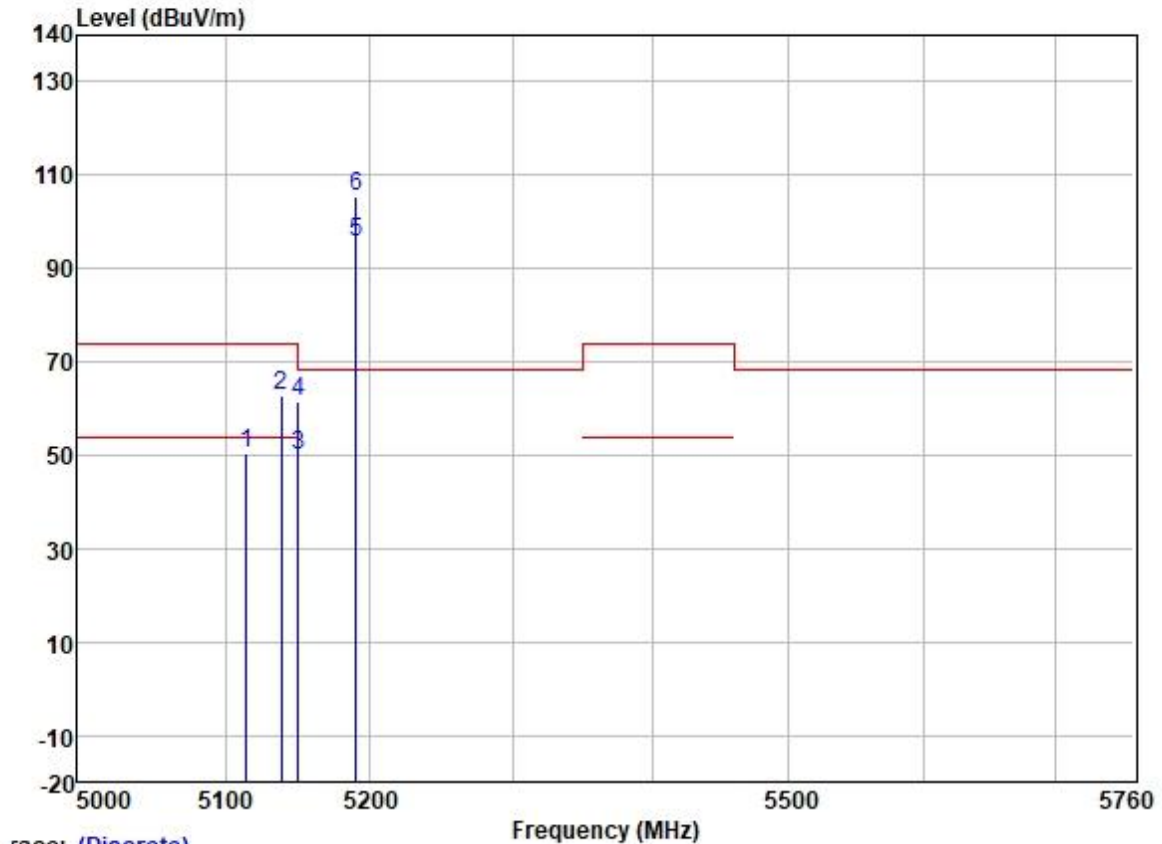
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



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	5240.000	99.34	31.75	5.74	36.87	99.96	-----	VERTICAL	Average
2 *	5240.000	108.54	31.75	5.74	36.87	109.16	68.20	40.96	VERTICAL
3	5350.020	48.88	31.77	6.05	36.88	49.82	54.00	-4.18	VERTICAL
4	5350.020	60.35	31.77	6.05	36.88	61.29	74.00	-12.71	VERTICAL
5	5353.053	61.15	31.77	6.05	36.88	62.09	74.00	-11.91	VERTICAL
6	5358.014	49.03	31.78	6.03	36.88	49.96	54.00	-4.04	VERTICAL

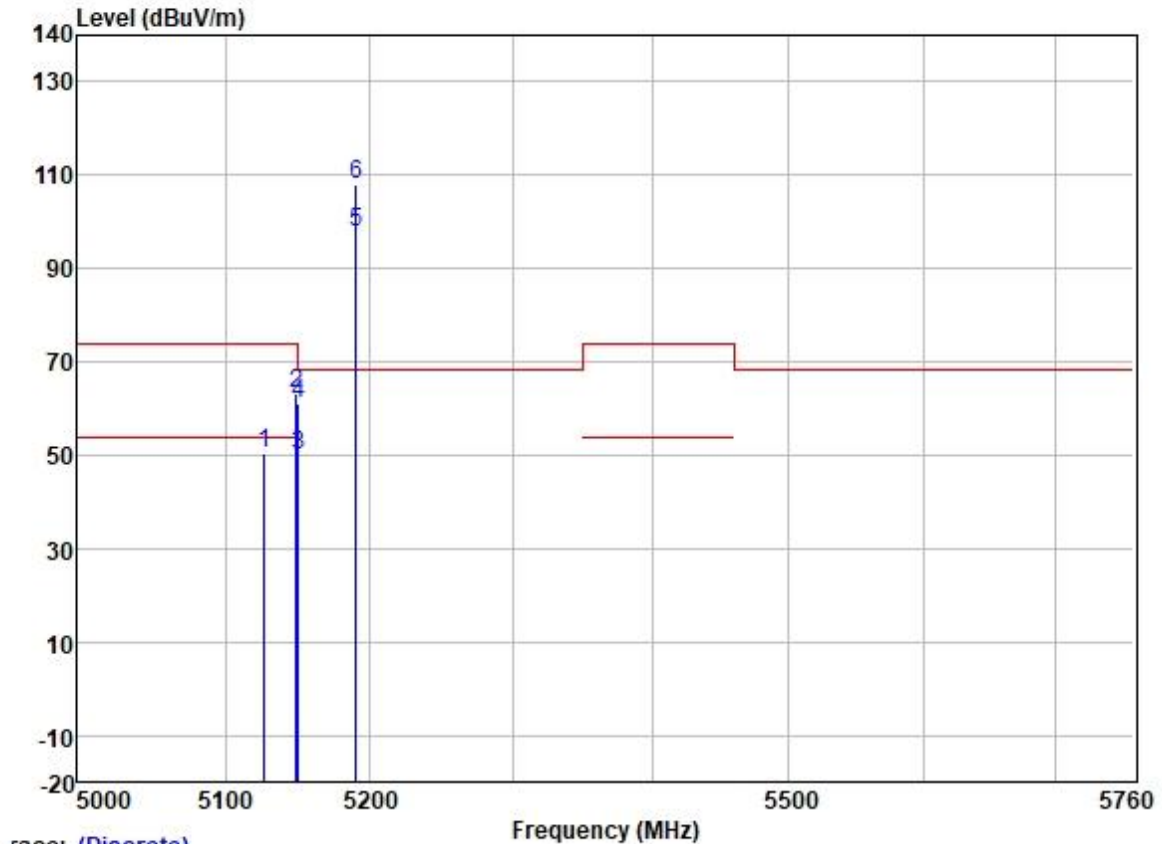
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



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	5114.372	49.98	31.72	5.64	36.86	50.48	54.00	-3.52	HORIZONTAL Average
2	5138.455	62.26	31.72	5.63	36.86	62.75	74.00	-11.25	HORIZONTAL Peak
3	5149.980	49.65	31.72	5.62	36.86	50.13	54.00	-3.87	HORIZONTAL Average
4	5149.980	60.82	31.72	5.62	36.86	61.30	74.00	-12.70	HORIZONTAL Peak
5	5190.000	95.32	31.73	5.60	36.87	95.78	-----	-----	HORIZONTAL Average
6 *	5190.000	105.12	31.73	5.60	36.87	105.58	68.20	37.38	HORIZONTAL Peak

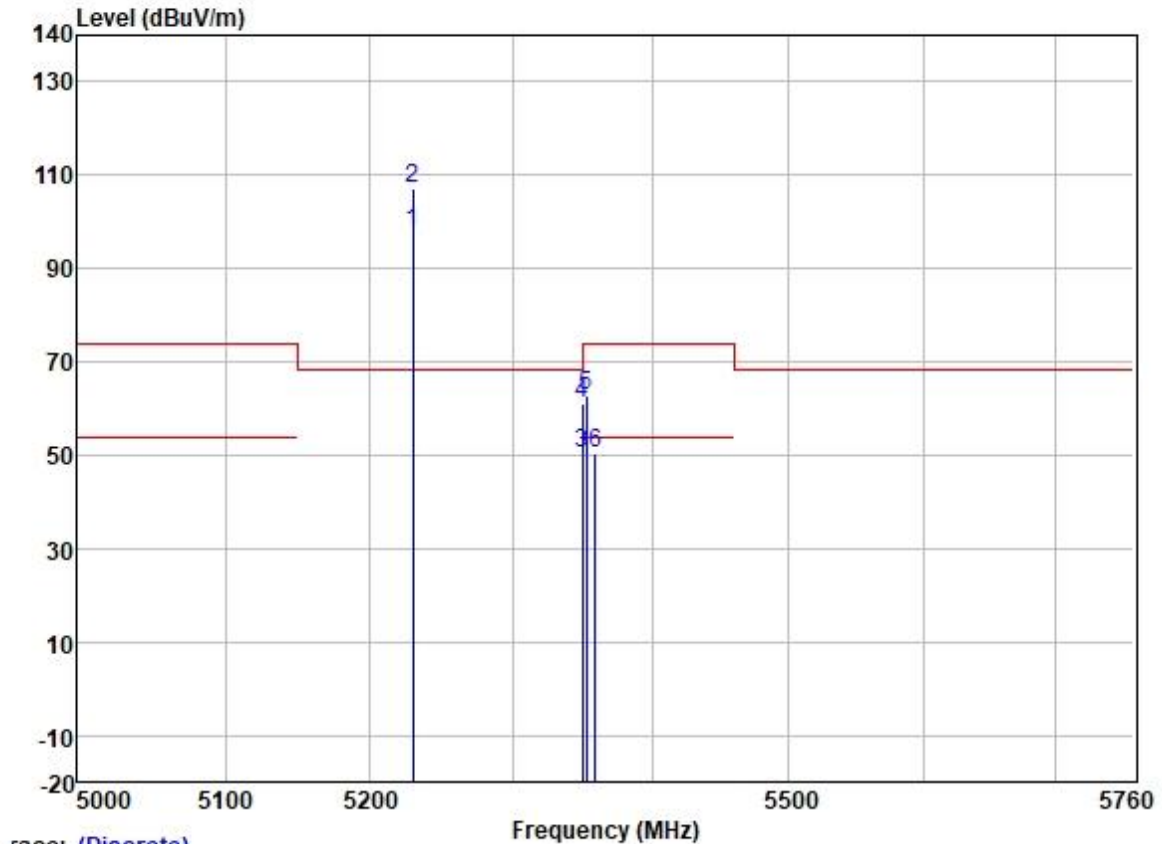
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



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	5126.399	50.03	31.72	5.64	36.86	50.53	54.00	-3.47	VERTICAL	Average
2	5148.623	62.82	31.72	5.62	36.86	63.30	74.00	-10.70	VERTICAL	Peak
3	5149.980	49.63	31.72	5.62	36.86	50.11	54.00	-3.89	VERTICAL	Average
4	5149.980	60.73	31.72	5.62	36.86	61.21	74.00	-12.79	VERTICAL	Peak
5	5190.000	97.40	31.73	5.60	36.87	97.86	-----	-----	VERTICAL	Average
6 *	5190.000	107.70	31.73	5.60	36.87	108.16	68.20	39.96	VERTICAL	Peak

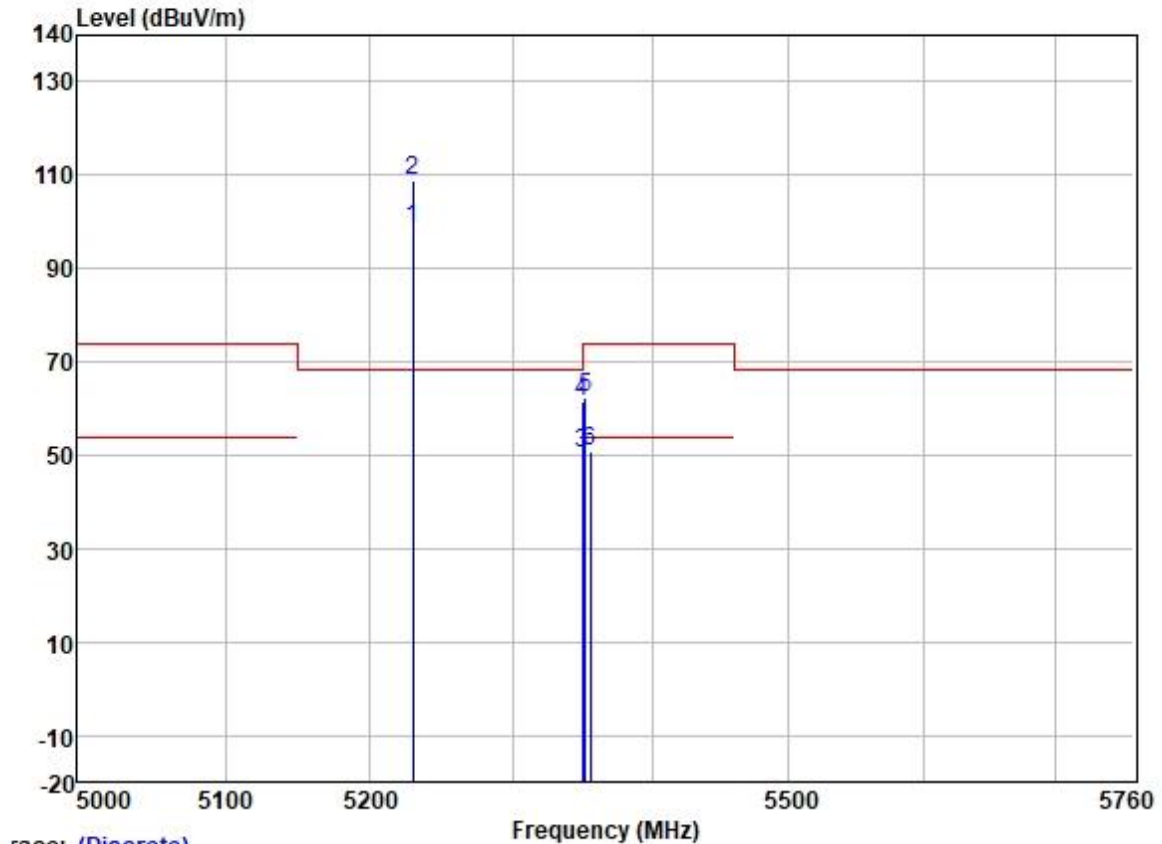
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



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	5230.000	97.26	31.74	5.70	36.87	97.83	-----	-----	HORIZONTAL Average
2 *	5230.000	106.56	31.74	5.70	36.87	107.13	68.20	38.93	HORIZONTAL Peak
3	5350.020	49.39	31.77	6.05	36.88	50.33	54.00	-3.67	HORIZONTAL Average
4	5350.020	60.31	31.77	6.05	36.88	61.25	74.00	-12.75	HORIZONTAL Peak
5	5352.857	61.89	31.77	6.05	36.88	62.83	74.00	-11.17	HORIZONTAL Peak
6	5359.025	49.61	31.78	6.03	36.88	50.54	54.00	-3.46	HORIZONTAL Average

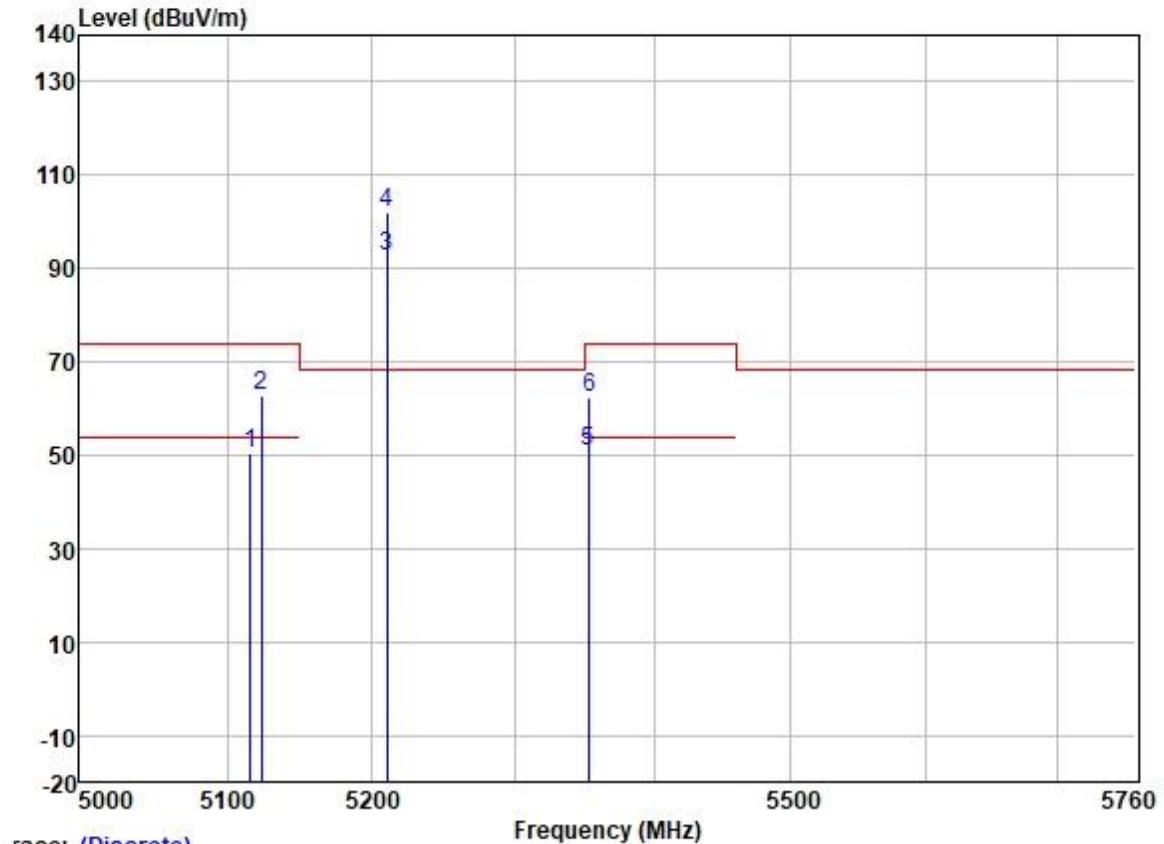
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

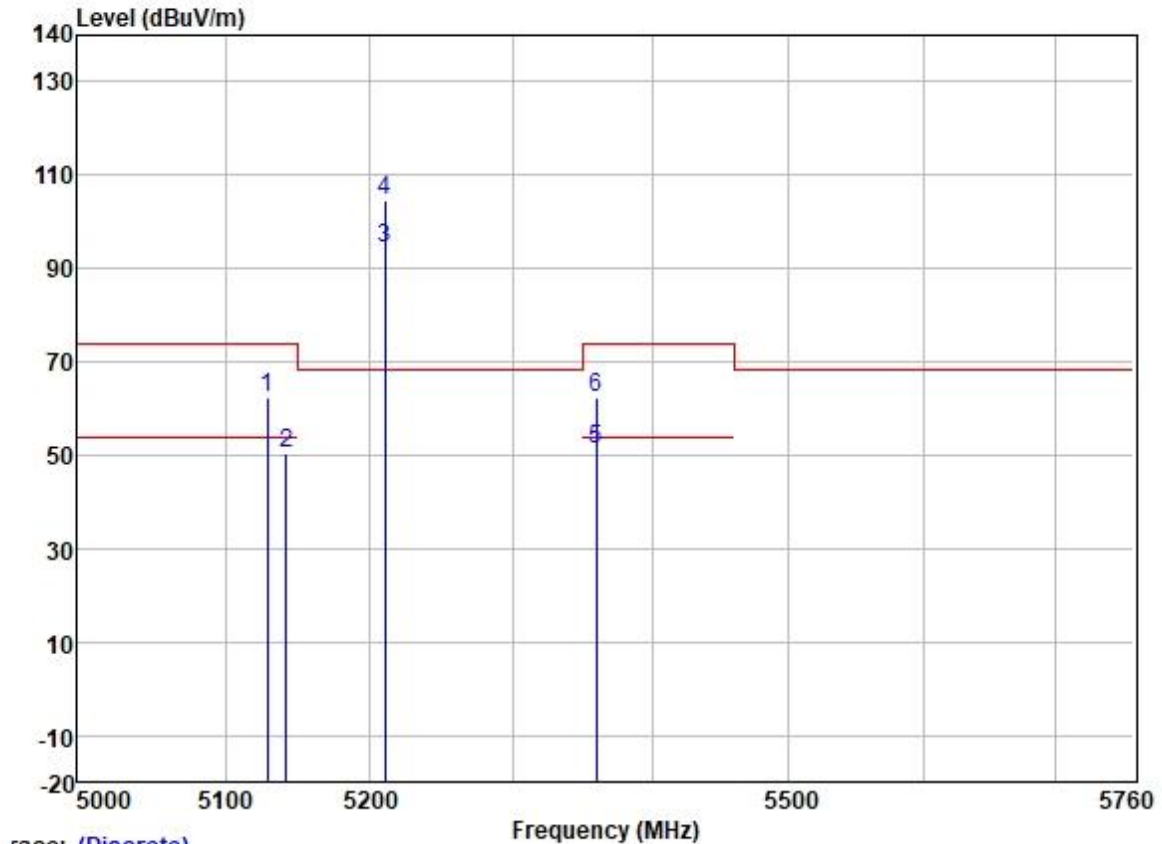
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	97.86	31.74	5.70	36.87	98.43	-----	-----	VERTICAL
2	* 5230.000	108.09	31.74	5.70	36.87	108.66	68.20	40.46	VERTICAL
3	5350.020	49.47	31.77	6.05	36.88	50.41	54.00	-3.59	VERTICAL
4	5350.020	60.37	31.77	6.05	36.88	61.31	74.00	-12.69	VERTICAL
5	5351.884	61.59	31.77	6.05	36.88	62.53	74.00	-11.47	VERTICAL
6	5355.292	49.70	31.78	6.03	36.88	50.63	54.00	-3.37	VERTICAL

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



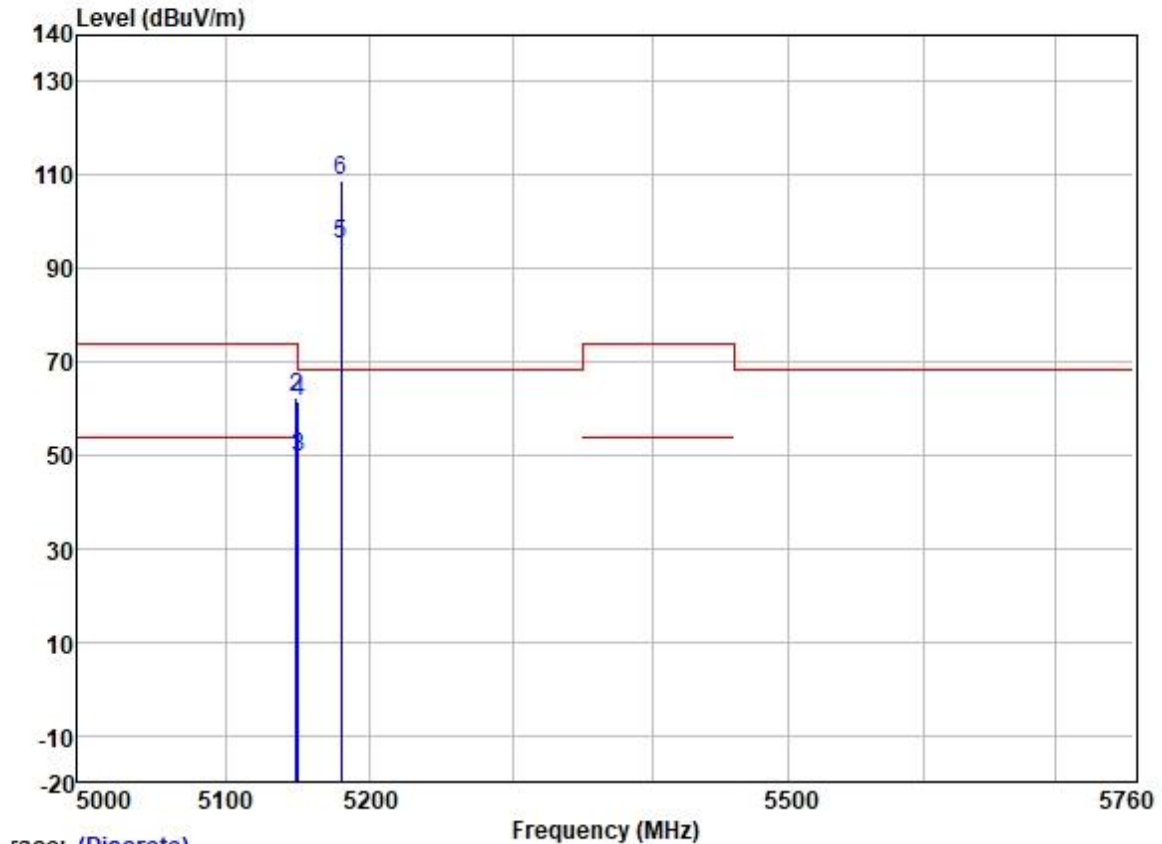
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5115.493	50.01	31.72	5.64	36.86	50.51	54.00	-3.49	HORIZONTAL Average
2	5123.129	62.18	31.72	5.64	36.86	62.68	74.00	-11.32	HORIZONTAL Peak
3	5210.000	91.91	31.74	5.65	36.87	92.43	-----	-----	HORIZONTAL Average
4 *	5210.000	101.43	31.74	5.65	36.87	101.95	68.20	33.75	HORIZONTAL Peak
5	5352.809	49.92	31.77	6.05	36.88	50.86	54.00	-3.14	HORIZONTAL Average
6	5353.341	61.23	31.77	6.05	36.88	62.17	74.00	-11.83	HORIZONTAL Peak

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



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	5128.481	61.84	31.72	5.63	36.86	62.33	74.00	-11.67	VERTICAL	Peak
2	5142.014	49.97	31.72	5.62	36.86	50.45	54.00	-3.55	VERTICAL	Average
3	5210.000	94.02	31.74	5.65	36.87	94.54	-----	-----	VERTICAL	Average
4 *	5210.000	104.16	31.74	5.65	36.87	104.68	68.20	36.48	VERTICAL	Peak
5	5359.467	50.19	31.78	6.03	36.88	51.12	54.00	-2.88	VERTICAL	Average
6	5359.467	61.56	31.78	6.03	36.88	62.49	74.00	-11.51	VERTICAL	Peak

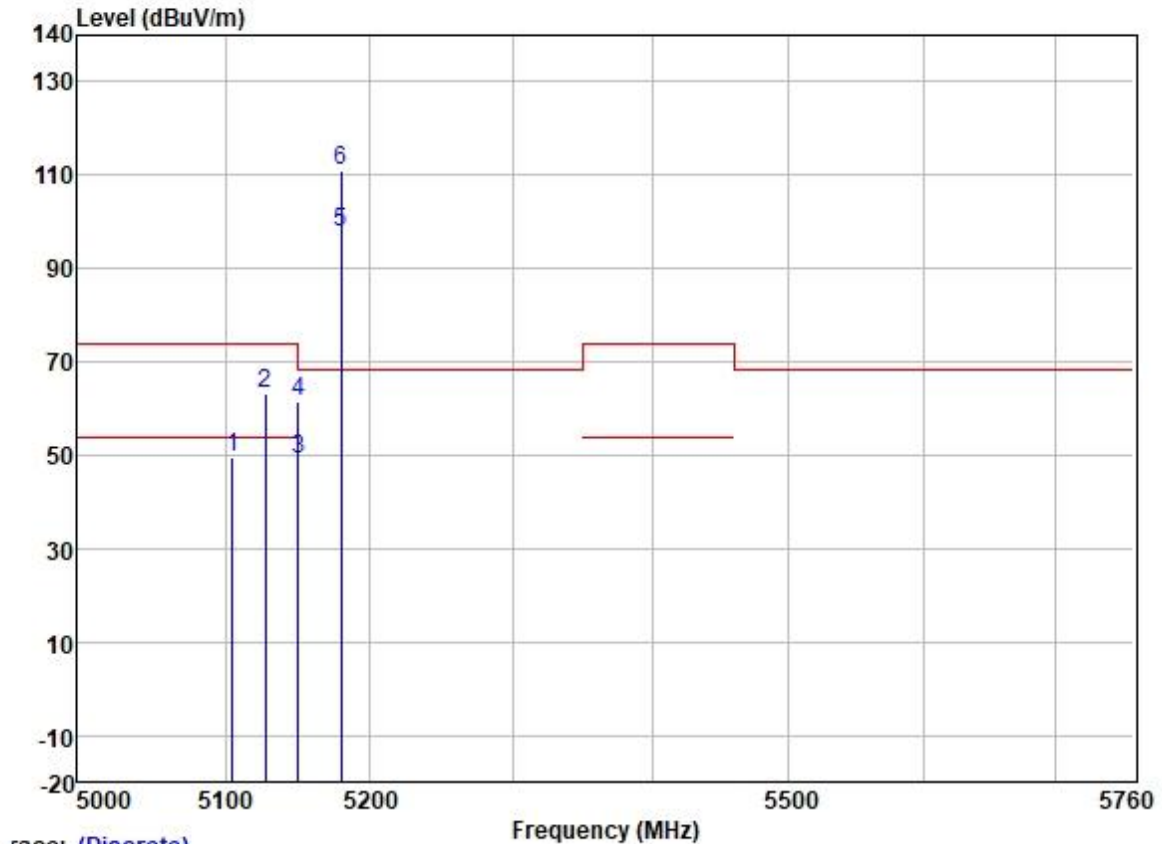
Test Mode: 01; Polarity: Horizontal; Bandwidth:20MHz; Channel:Low



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	5148.857	49.23	31.72	5.62	36.86	49.71	54.00	-4.29	HORIZONTAL Average
2	5148.857	62.03	31.72	5.62	36.86	62.51	74.00	-11.49	HORIZONTAL Peak
3	5149.980	49.07	31.72	5.62	36.86	49.55	54.00	-4.45	HORIZONTAL Average
4	5149.980	60.83	31.72	5.62	36.86	61.31	74.00	-12.69	HORIZONTAL Peak
5	5180.000	94.65	31.73	5.61	36.87	95.12	-----	-----	HORIZONTAL Average
6 *	5180.000	108.29	31.73	5.61	36.87	108.76	68.20	40.56	HORIZONTAL Peak

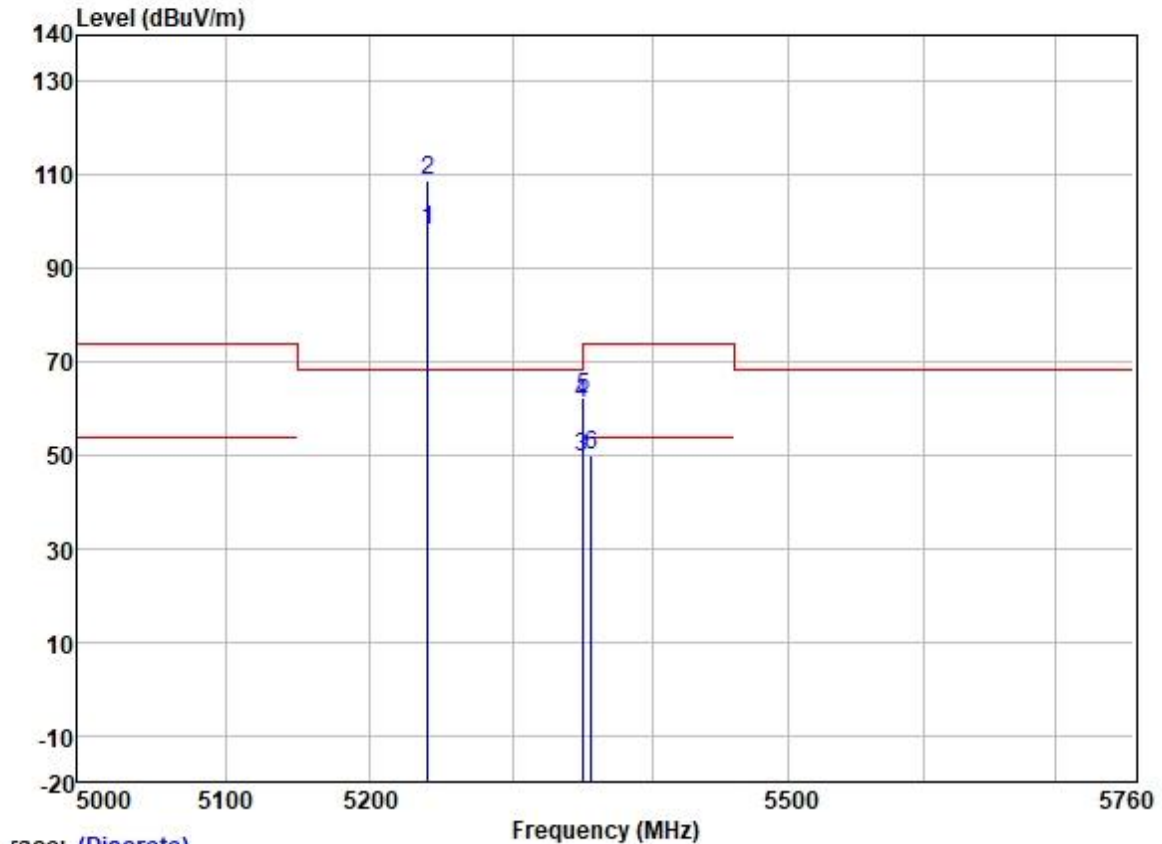
Test Mode: 01; Polarity: Vertical; Bandwidth:20MHz; Channel:Low



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	5104.558	49.17	31.72	5.65	36.86	49.68	54.00	-4.32	VERTICAL
2	5127.207	62.63	31.72	5.63	36.86	63.12	74.00	-10.88	VERTICAL
3	5149.980	48.77	31.72	5.62	36.86	49.25	54.00	-4.75	VERTICAL
4	5149.980	60.94	31.72	5.62	36.86	61.42	74.00	-12.58	VERTICAL
5	5180.000	97.15	31.73	5.61	36.87	97.62	-----	-----	VERTICAL
6 *	5180.000	110.39	31.73	5.61	36.87	110.86	68.20	42.66	VERTICAL

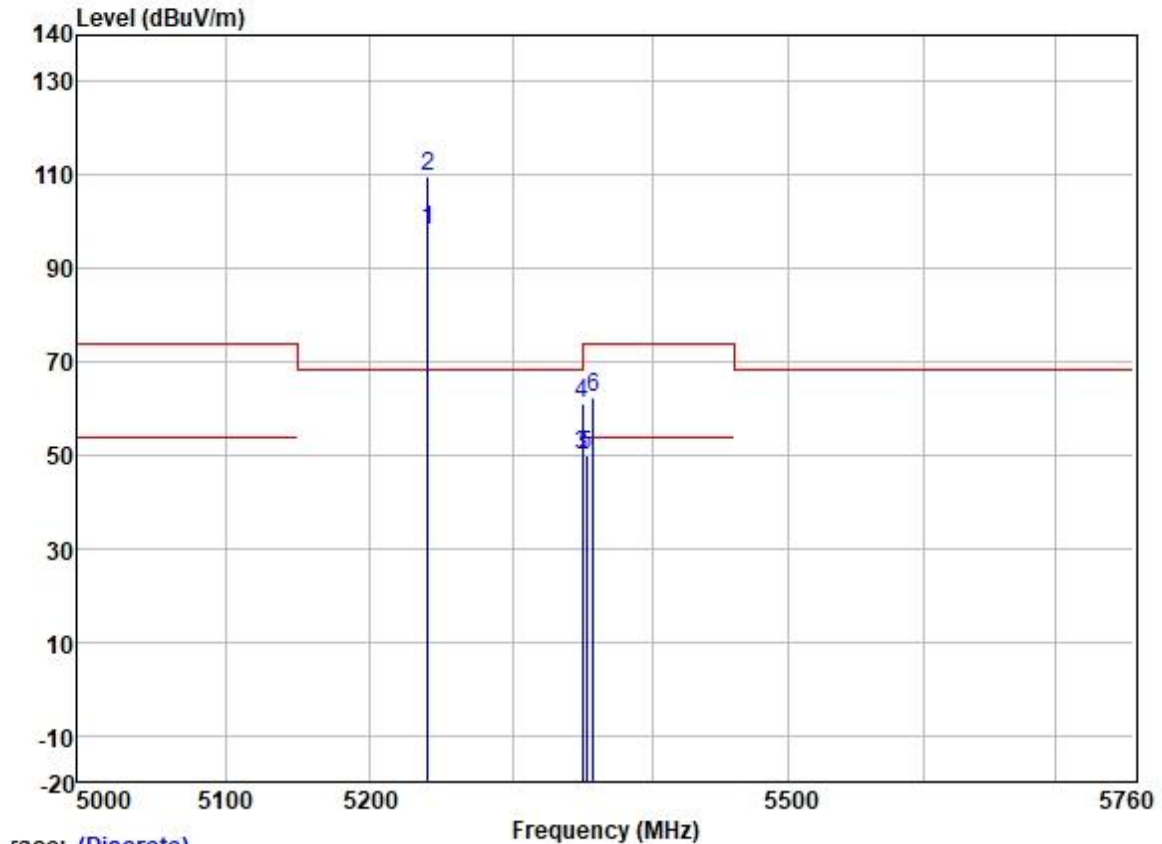
Test Mode: 01; Polarity: Horizontal; Bandwidth:20MHz; Channel:High



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	97.51	31.75	5.74	36.87	98.13	-----	-----	HORIZONTAL Average
2 *	5240.000	108.38	31.75	5.74	36.87	109.00	68.20	40.80	HORIZONTAL Peak
3	5350.020	48.74	31.77	6.05	36.88	49.68	54.00	-4.32	HORIZONTAL Average
4	5350.020	60.11	31.77	6.05	36.88	61.05	74.00	-12.95	HORIZONTAL Peak
5	5350.362	61.54	31.77	6.05	36.88	62.48	74.00	-11.52	HORIZONTAL Peak
6	5356.455	49.00	31.78	6.03	36.88	49.93	54.00	-4.07	HORIZONTAL Average

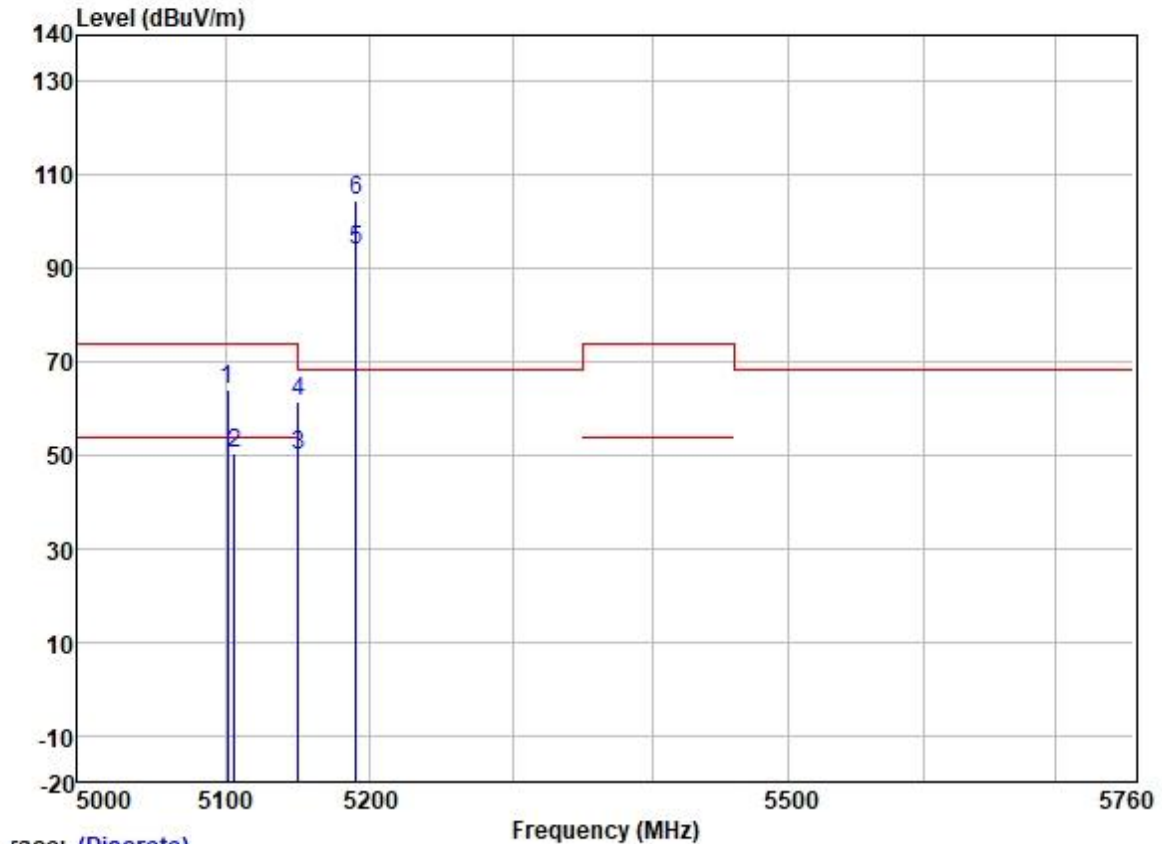
Test Mode: 01; Polarity: Vertical; Bandwidth:20MHz; Channel:High



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	97.49	31.75	5.74	36.87	98.11	-----	-----	VERTICAL Average
2	* 5240.000	109.29	31.75	5.74	36.87	109.91	68.20	41.71	VERTICAL Peak
3	5350.020	48.83	31.77	6.05	36.88	49.77	54.00	-4.23	VERTICAL Average
4	5350.020	59.99	31.77	6.05	36.88	60.93	74.00	-13.07	VERTICAL Peak
5	5352.487	48.84	31.77	6.05	36.88	49.78	54.00	-4.22	VERTICAL Average
6	5357.447	61.54	31.78	6.03	36.88	62.47	74.00	-11.53	VERTICAL Peak

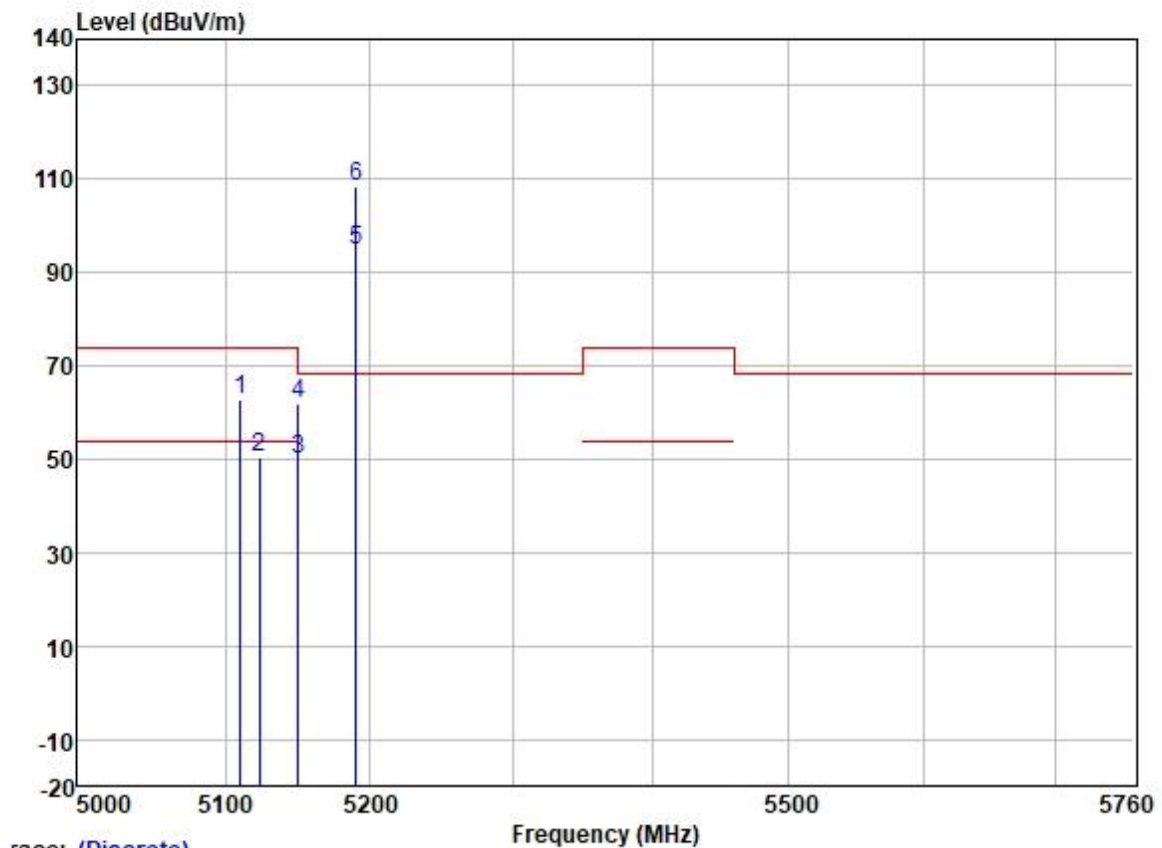
Test Mode: 01; Polarity: Horizontal; Bandwidth:40MHz; Channel:Low



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	5101.542	63.38	31.72	5.65	36.86	63.89	74.00	-10.11	HORIZONTAL Peak
2	5105.934	49.92	31.72	5.65	36.86	50.43	54.00	-3.57	HORIZONTAL Average
3	5149.980	49.47	31.72	5.62	36.86	49.95	54.00	-4.05	HORIZONTAL Average
4	5149.980	61.05	31.72	5.62	36.86	61.53	74.00	-12.47	HORIZONTAL Peak
5	5190.000	93.28	31.73	5.60	36.87	93.74	-----	-----	HORIZONTAL Average
6 *	5190.000	104.19	31.73	5.60	36.87	104.65	68.20	36.45	HORIZONTAL Peak

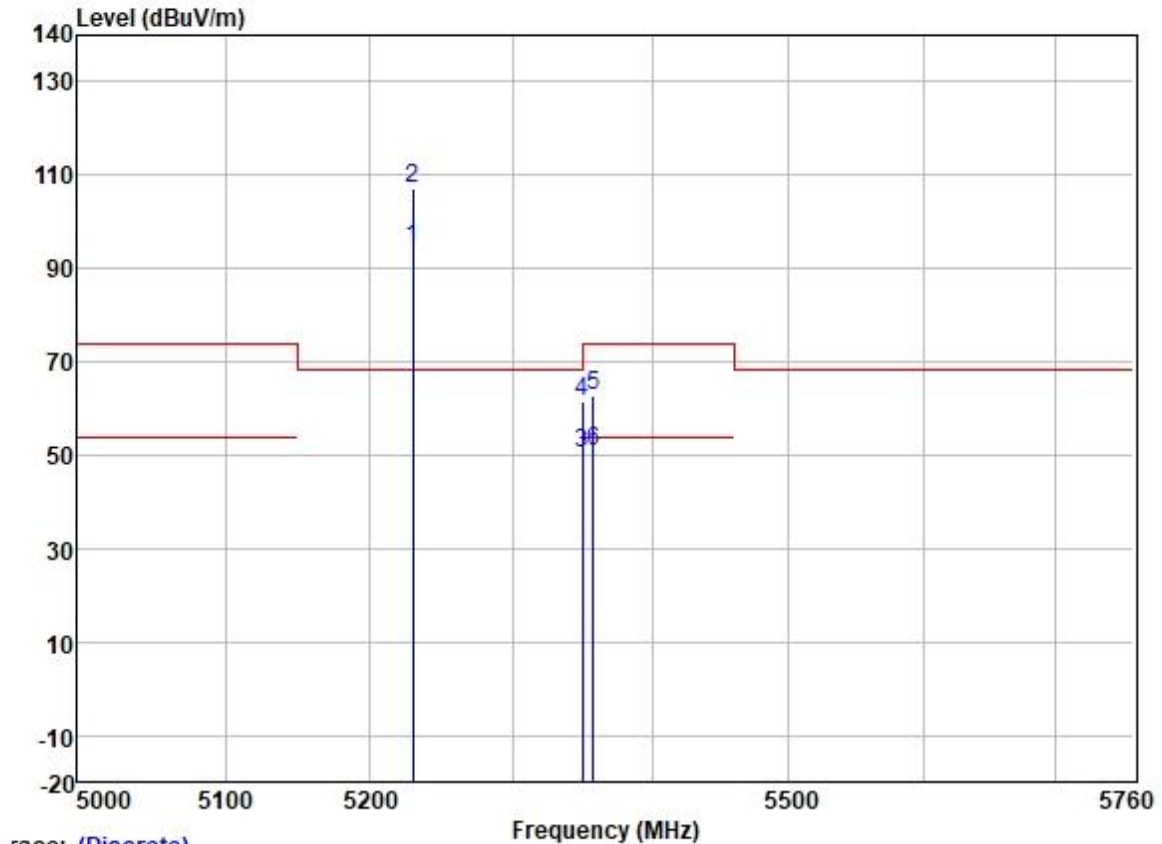
Test Mode: 01; Polarity: Vertical; Bandwidth:40MHz; Channel:Low



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	5109.973	62.27	31.72	5.65	36.86	62.78	74.00	-11.22	VERTICAL
2	5123.420	49.94	31.72	5.64	36.86	50.44	54.00	-3.56	VERTICAL
3	5149.980	49.49	31.72	5.62	36.86	49.97	54.00	-4.03	VERTICAL
4	5149.980	61.49	31.72	5.62	36.86	61.97	74.00	-12.03	VERTICAL
5	5190.000	94.45	31.73	5.60	36.87	94.91	-----	-----	VERTICAL
6 *	5190.000	107.91	31.73	5.60	36.87	108.37	68.20	40.17	VERTICAL

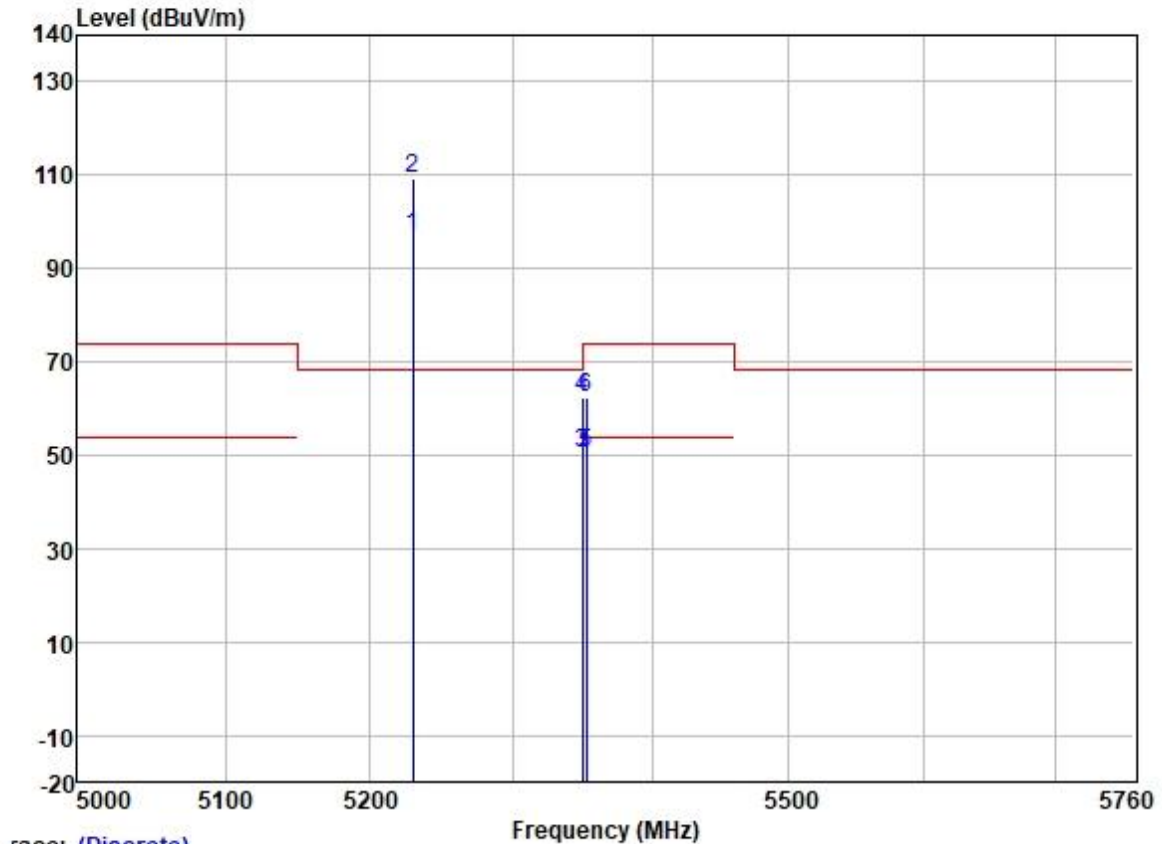
Test Mode: 01; Polarity: Horizontal; Bandwidth:40MHz; Channel:High



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	93.73	31.74	5.70	36.87	94.30	-----	-----	HORIZONTAL Average
2 *	5230.000	106.37	31.74	5.70	36.87	106.94	68.20	38.74	HORIZONTAL Peak
3	5350.020	49.37	31.77	6.05	36.88	50.31	54.00	-3.69	HORIZONTAL Average
4	5350.020	60.68	31.77	6.05	36.88	61.62	74.00	-12.38	HORIZONTAL Peak
5	5357.402	61.88	31.78	6.03	36.88	62.81	74.00	-11.19	HORIZONTAL Peak
6	5357.727	49.72	31.78	6.03	36.88	50.65	54.00	-3.35	HORIZONTAL Average

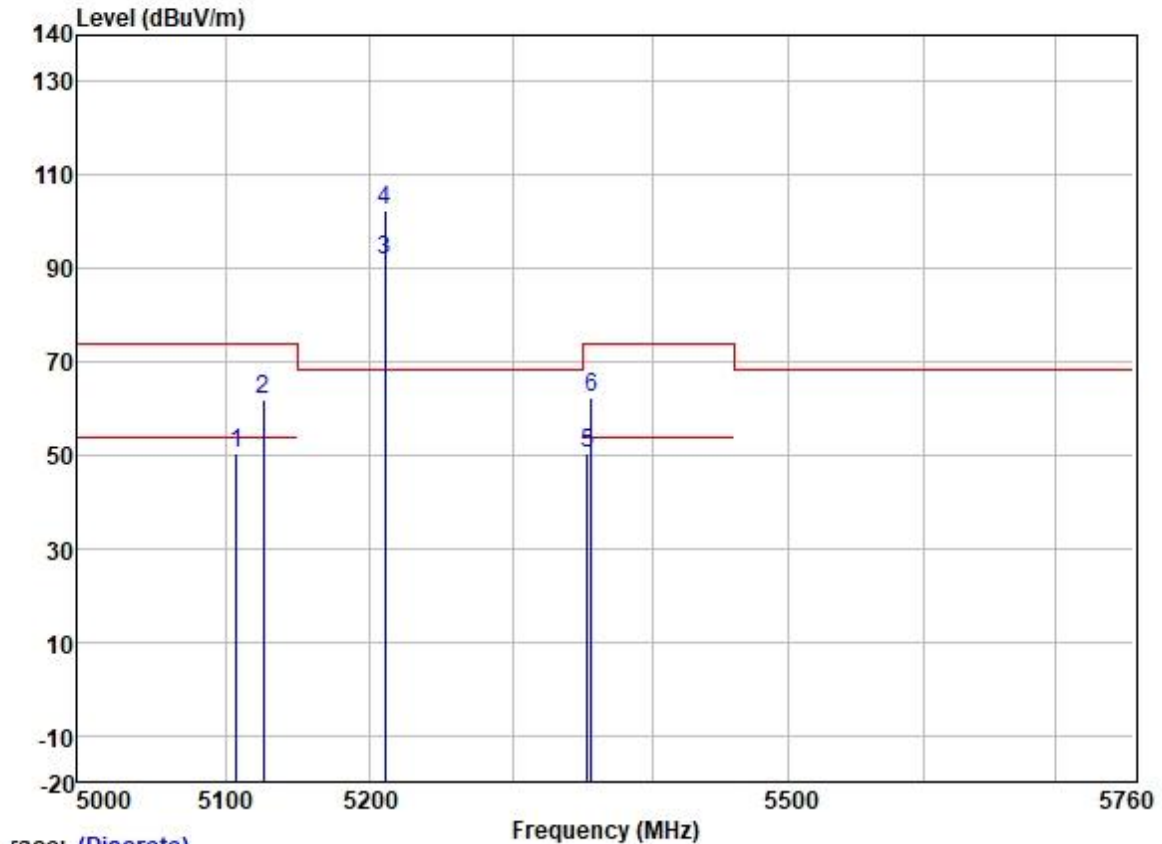
Test Mode: 01; Polarity: Vertical; Bandwidth:40MHz; Channel:High



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	96.41	31.74	5.70	36.87	96.98	-----	-----	VERTICAL Average
2	* 5230.000	108.67	31.74	5.70	36.87	109.24	68.20	41.04	VERTICAL Peak
3	5350.020	49.44	31.77	6.05	36.88	50.38	54.00	-3.62	VERTICAL Average
4	5350.020	61.34	31.77	6.05	36.88	62.28	74.00	-11.72	VERTICAL Peak
5	5352.857	49.67	31.77	6.05	36.88	50.61	54.00	-3.39	VERTICAL Average
6	5352.857	61.57	31.77	6.05	36.88	62.51	74.00	-11.49	VERTICAL Peak

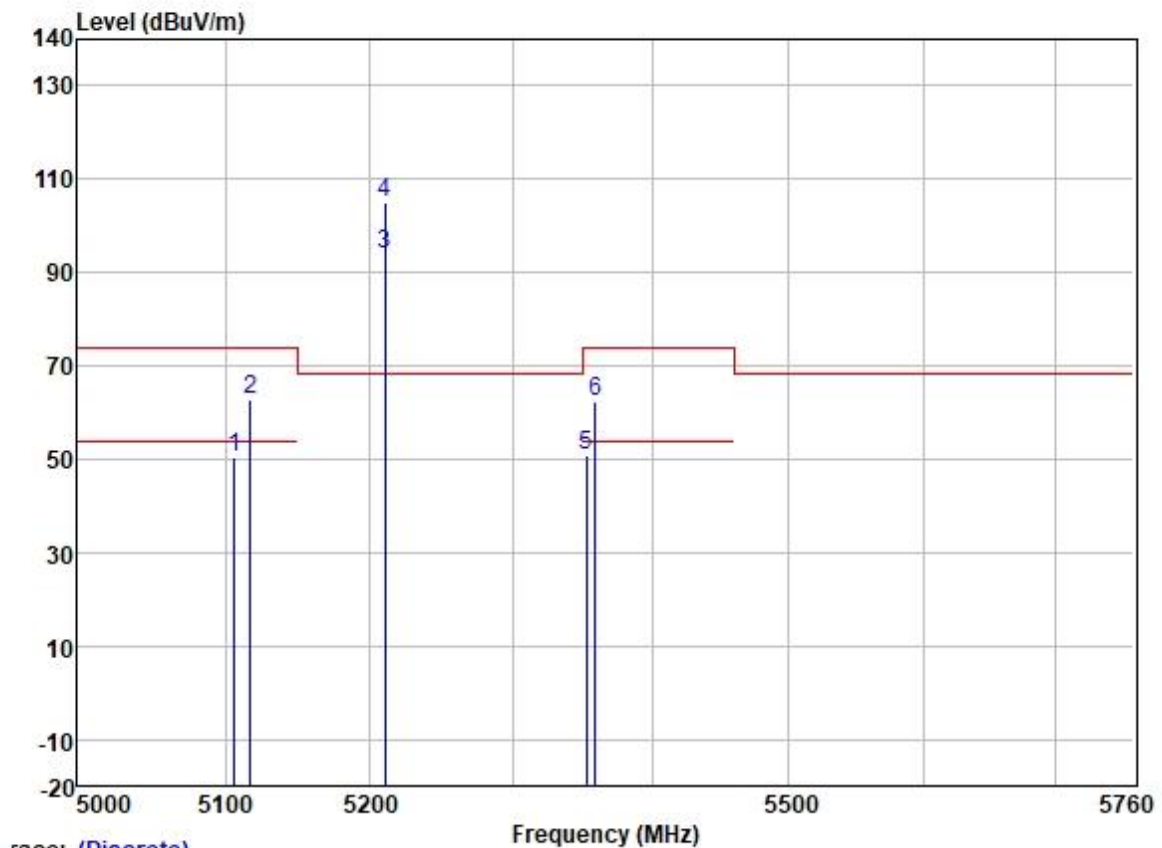
Test Mode: 01; Polarity: Horizontal; Bandwidth:80MHz; Channel:middle



Trace: (Discrete)

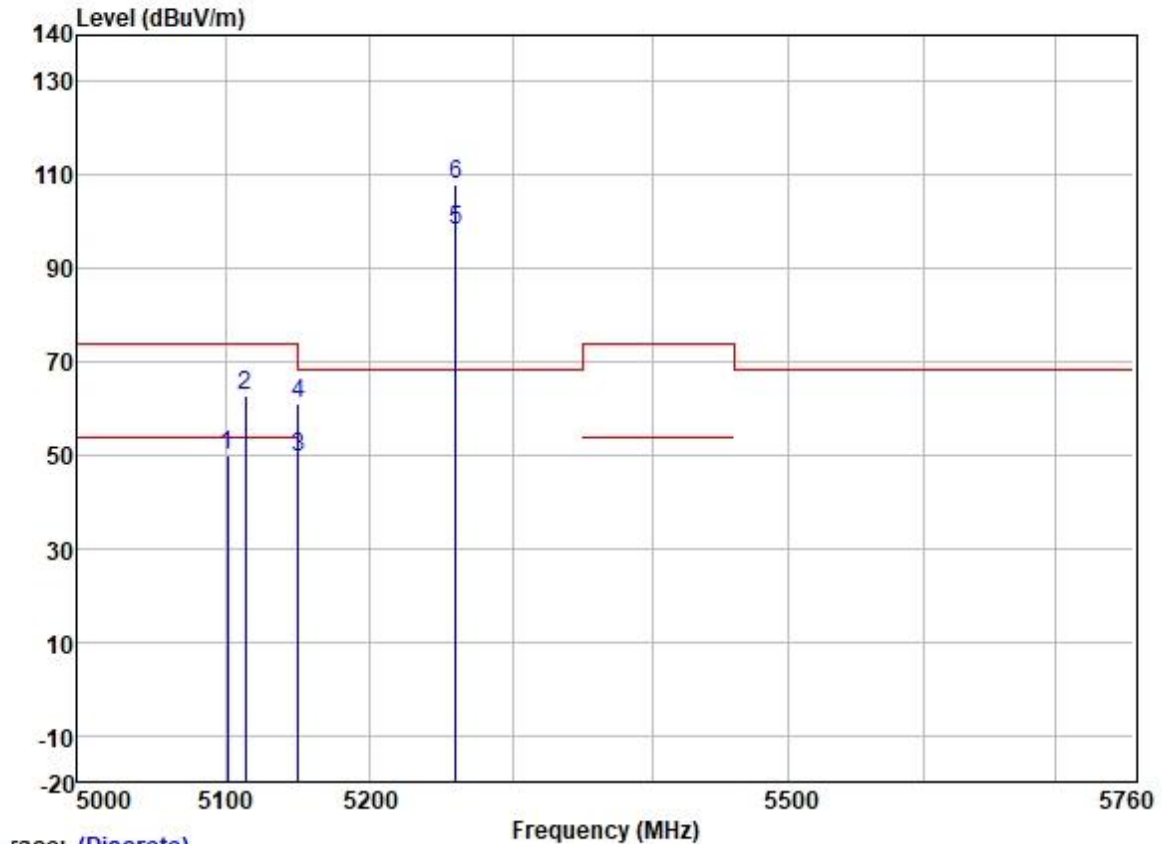
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5107.613	49.88	31.72	5.65	36.86	50.39	54.00	-3.61	HORIZONTAL Average
2	5126.187	61.47	31.72	5.64	36.86	61.97	74.00	-12.03	HORIZONTAL Peak
3	5210.000	91.37	31.74	5.65	36.87	91.89	-----	-----	HORIZONTAL Average
4 *	5210.000	102.07	31.74	5.65	36.87	102.59	68.20	34.39	HORIZONTAL Peak
5	5353.341	49.56	31.77	6.05	36.88	50.50	54.00	-3.50	HORIZONTAL Average
6	5356.270	61.55	31.78	6.03	36.88	62.48	74.00	-11.52	HORIZONTAL Peak

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



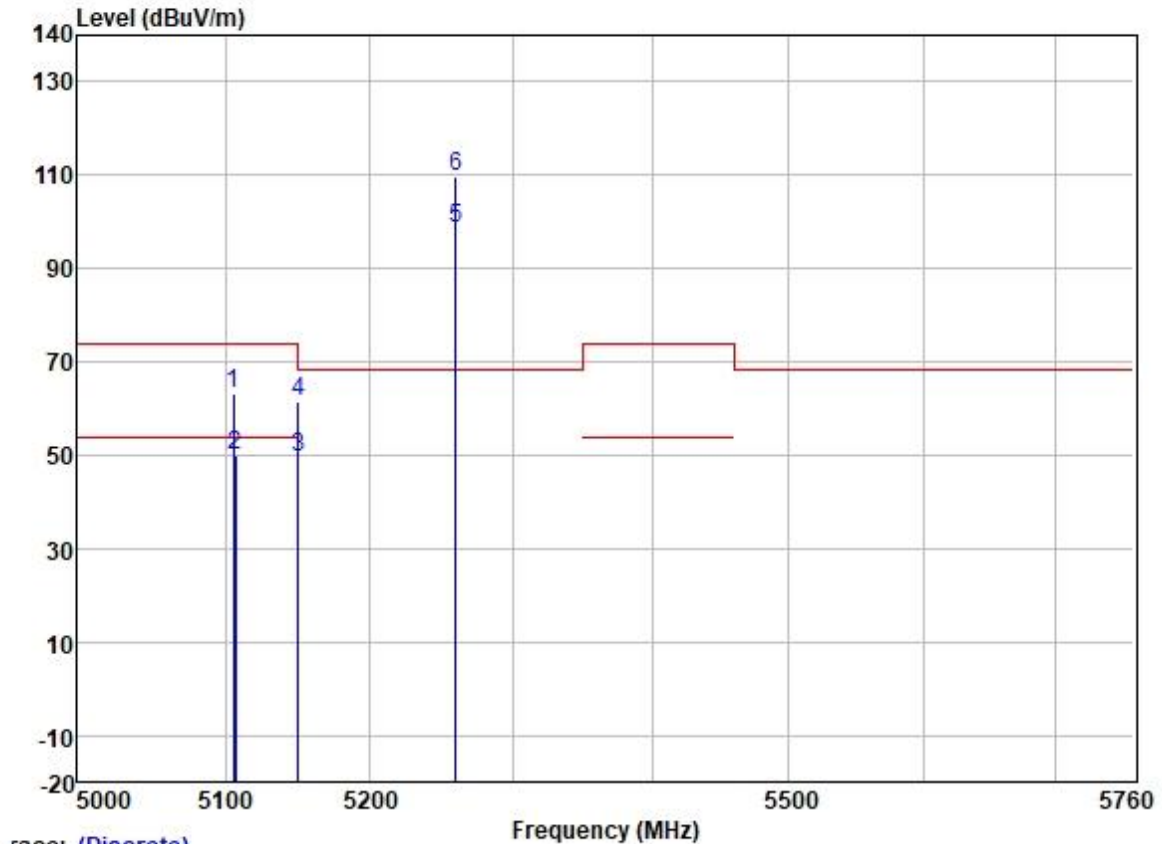
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5106.344	49.93	31.72	5.65	36.86	50.44	54.00	-3.56	VERTICAL
2	5117.019	62.07	31.72	5.64	36.86	62.57	74.00	-11.43	VERTICAL
3	5210.000	93.39	31.74	5.65	36.87	93.91	-----	-----	VERTICAL
4 *	5210.000	104.55	31.74	5.65	36.87	105.07	68.20	36.87	VERTICAL
5	5352.809	49.70	31.77	6.05	36.88	50.64	54.00	-3.36	VERTICAL
6	5358.934	61.29	31.78	6.03	36.88	62.22	74.00	-11.78	VERTICAL

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



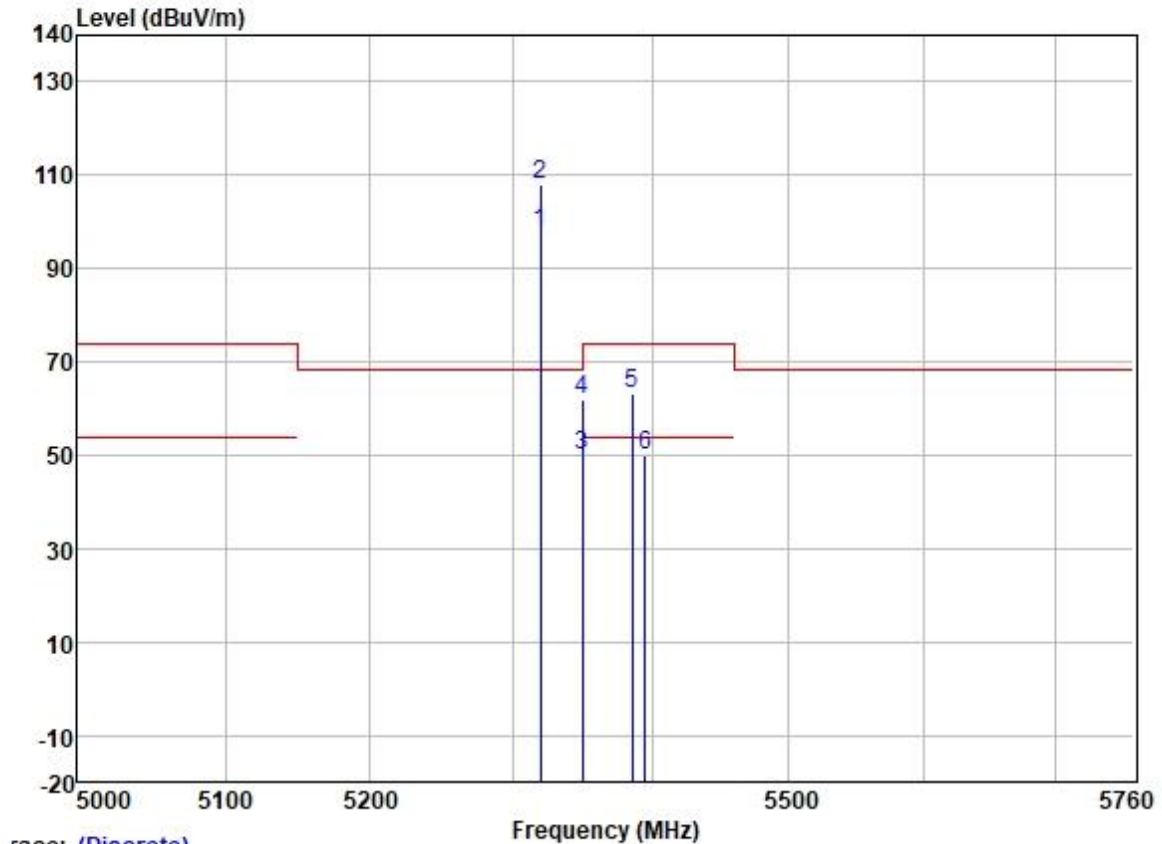
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5101.592	49.54	31.72	5.65	36.86	50.05	54.00	-3.95	HORIZONTAL Average
2	5113.462	62.23	31.72	5.64	36.86	62.73	74.00	-11.27	HORIZONTAL Peak
3	5149.980	48.95	31.72	5.62	36.86	49.43	54.00	-4.57	HORIZONTAL Average
4	5149.980	60.70	31.72	5.62	36.86	61.18	74.00	-12.82	HORIZONTAL Peak
5	5260.000	97.36	31.75	5.77	36.87	98.01	-----	-----	HORIZONTAL Average
6 *	5260.000	107.36	31.75	5.77	36.87	108.01	68.20	39.81	HORIZONTAL Peak

Test Mode: 02; 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	5105.310	62.51	31.72	5.65	36.86	63.02	74.00	-10.98	VERTICAL Peak
2	5106.727	49.27	31.72	5.65	36.86	49.78	54.00	-4.22	VERTICAL Average
3	5149.980	48.97	31.72	5.62	36.86	49.45	54.00	-4.55	VERTICAL Average
4	5149.980	60.89	31.72	5.62	36.86	61.37	74.00	-12.63	VERTICAL Peak
5	5260.000	97.93	31.75	5.77	36.87	98.58	-----	-----	VERTICAL Average
6 *	5260.000	109.17	31.75	5.77	36.87	109.82	68.20	41.62	VERTICAL Peak

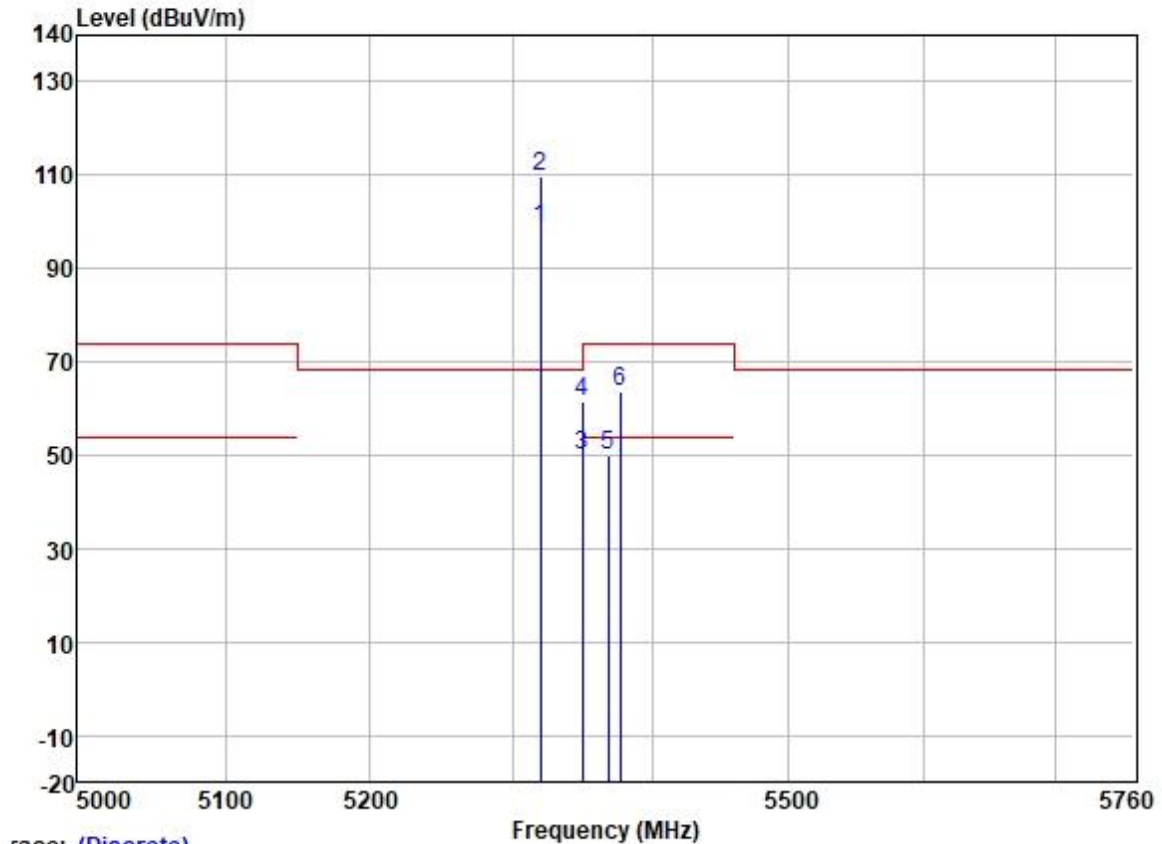
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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	dB		
1	5320.000	96.99	31.77	6.08	36.88	97.96	-----	-----	HORIZONTAL Average
2 *	5320.000	107.03	31.77	6.08	36.88	108.00	68.20	39.80	HORIZONTAL Peak
3	5350.020	48.84	31.77	6.05	36.88	49.78	54.00	-4.22	HORIZONTAL Average
4	5350.020	60.89	31.77	6.05	36.88	61.83	74.00	-12.17	HORIZONTAL Peak
5	5385.887	62.50	31.78	6.00	36.88	63.40	74.00	-10.60	HORIZONTAL Peak
6	5394.956	49.16	31.78	6.00	36.88	50.06	54.00	-3.94	HORIZONTAL Average

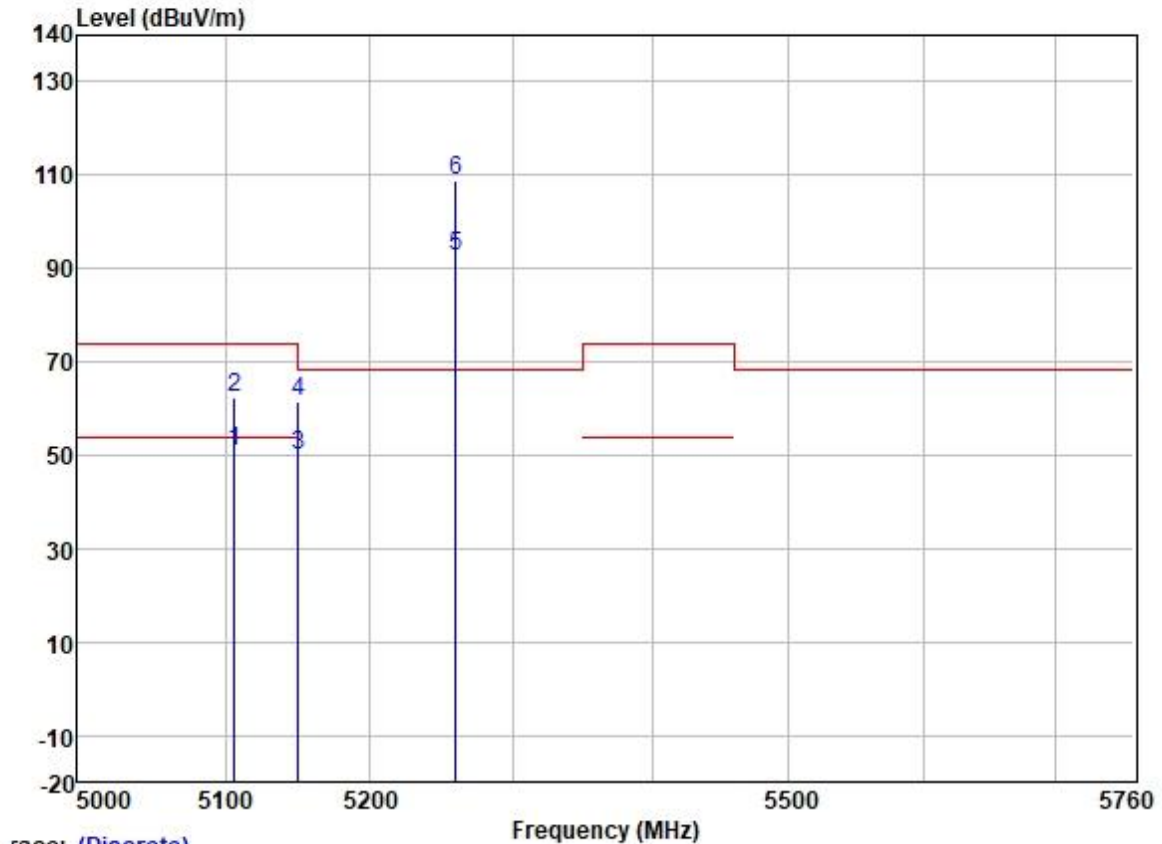
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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	97.53	31.77	6.08	36.88	98.50	-----	-----	VERTICAL Average
2 *	5320.000	108.86	31.77	6.08	36.88	109.83	68.20	-41.63	VERTICAL Peak
3	5350.020	49.02	31.77	6.05	36.88	49.96	54.00	-4.04	VERTICAL Average
4	5350.020	60.39	31.77	6.05	36.88	61.33	74.00	-12.67	VERTICAL Peak
5	5368.398	49.24	31.78	6.03	36.88	50.17	54.00	-3.83	VERTICAL Average
6	5376.734	62.87	31.78	6.02	36.88	63.79	74.00	-10.21	VERTICAL Peak

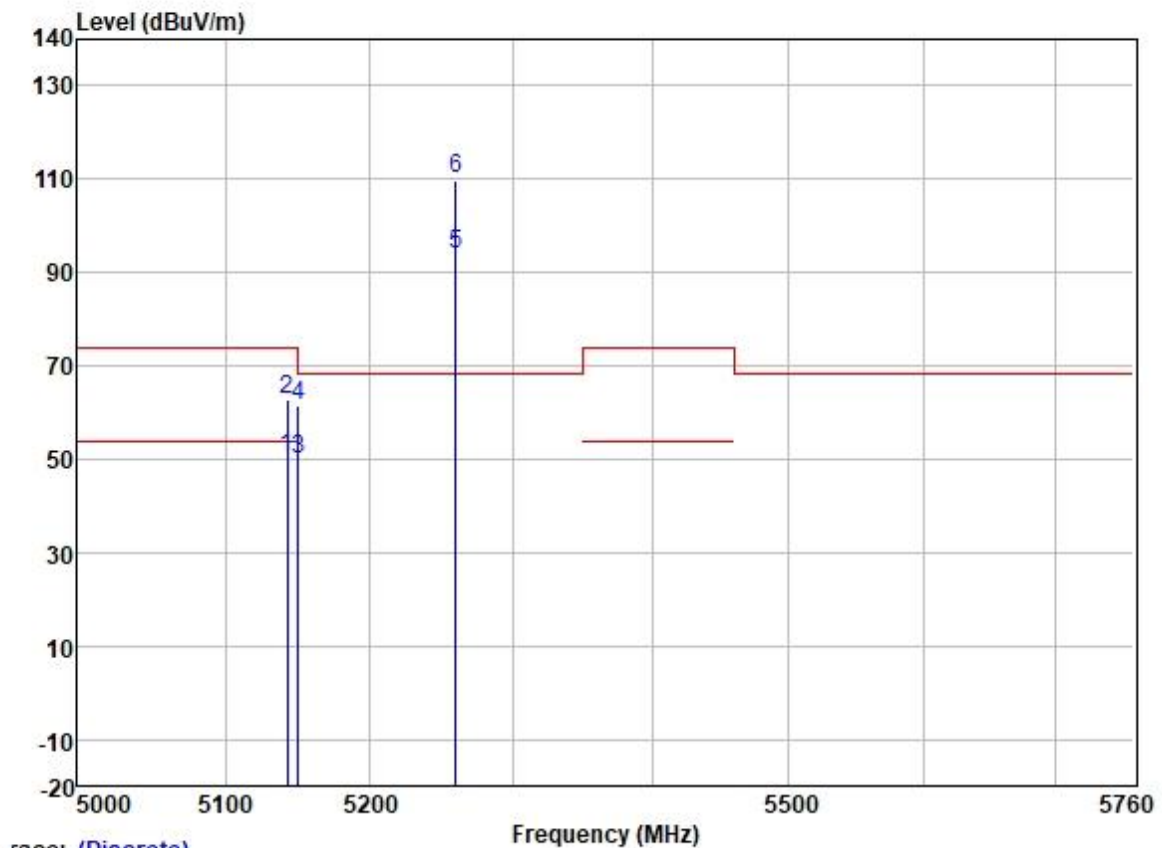
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	5106.018	50.26	31.72	5.65	36.86	50.77	54.00	-3.23	HORIZONTAL Average
2	5106.018	61.88	31.72	5.65	36.86	62.39	74.00	-11.61	HORIZONTAL Peak
3	5149.980	49.65	31.72	5.62	36.86	50.13	54.00	-3.87	HORIZONTAL Average
4	5149.980	60.87	31.72	5.62	36.86	61.35	74.00	-12.65	HORIZONTAL Peak
5	5260.000	91.84	31.75	5.77	36.87	92.49	-----	-----	HORIZONTAL Average
6 *	5260.000	108.01	31.75	5.77	36.87	108.66	68.20	40.46	HORIZONTAL Peak

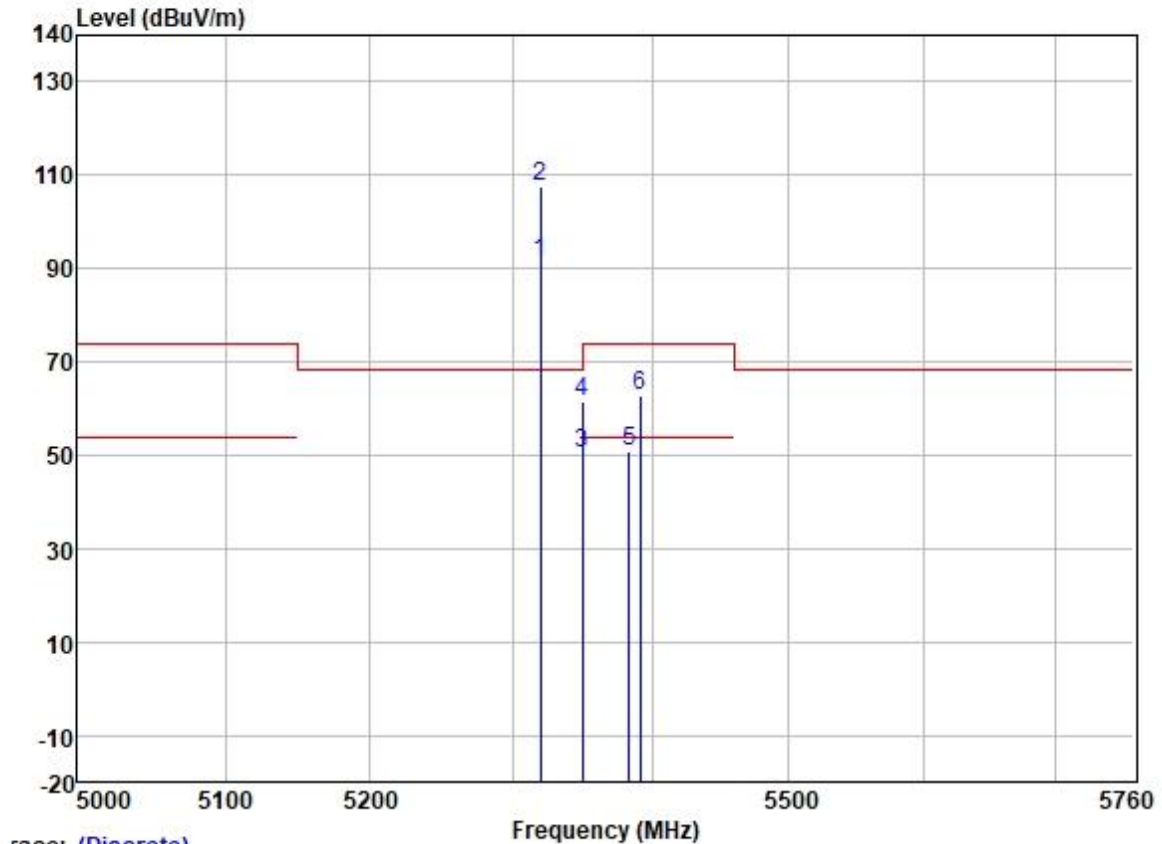
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

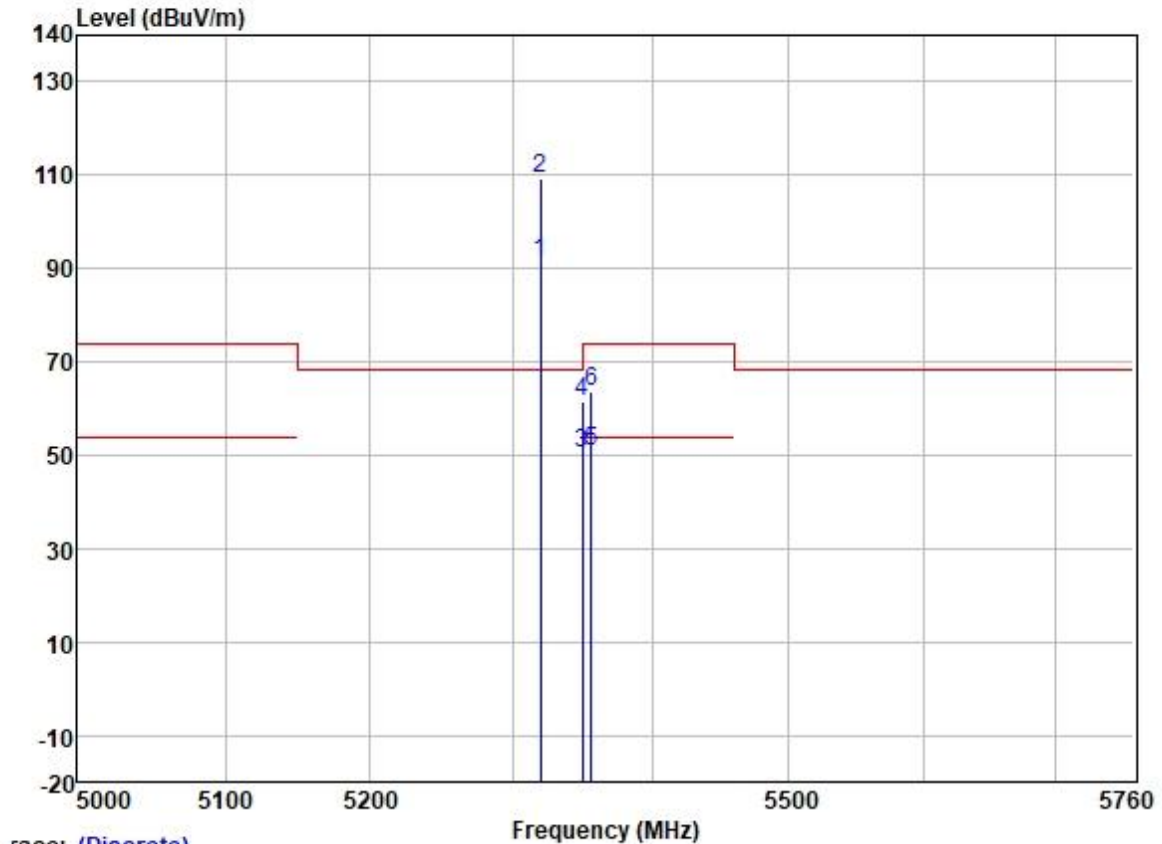
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5142.275	50.10	31.72	5.62	36.86	50.58	54.00	-3.42	VERTICAL
2	5142.275	62.18	31.72	5.62	36.86	62.66	74.00	-11.34	VERTICAL
3	5149.980	49.62	31.72	5.62	36.86	50.10	54.00	-3.90	VERTICAL
4	5149.980	61.14	31.72	5.62	36.86	61.62	74.00	-12.38	VERTICAL
5	5260.000	93.33	31.75	5.77	36.87	93.98	-----	-----	VERTICAL
6 *	5260.000	109.27	31.75	5.77	36.87	109.92	68.20	41.72	VERTICAL

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



	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	90.52	31.77	6.08	36.88	91.49	-----	-----	HORIZONTAL Average
2 *	5320.000	106.63	31.77	6.08	36.88	107.60	68.20	39.40	HORIZONTAL Peak
3	5350.020	49.48	31.77	6.05	36.88	50.42	54.00	-3.58	HORIZONTAL Average
4	5350.020	60.74	31.77	6.05	36.88	61.68	74.00	-12.32	HORIZONTAL Peak
5	5383.170	49.85	31.78	6.02	36.88	50.77	54.00	-3.23	HORIZONTAL Average
6	5391.427	61.71	31.78	6.00	36.88	62.61	74.00	-11.39	HORIZONTAL Peak

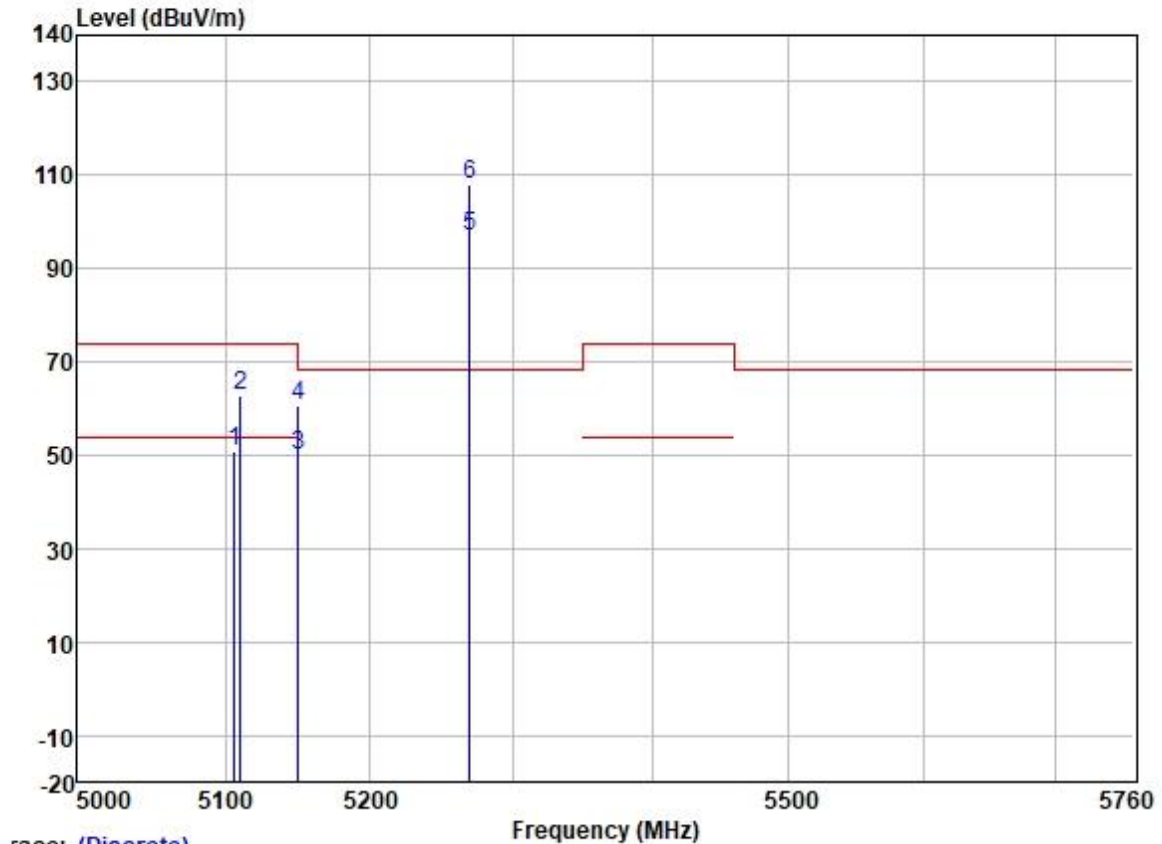
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	5320.000	90.54	31.77	6.08	36.88	91.51	-----	-----	VERTICAL Average
2 *	5320.000	108.33	31.77	6.08	36.88	109.30	68.20	41.10	VERTICAL Peak
3	5350.020	49.51	31.77	6.05	36.88	50.45	54.00	-3.55	VERTICAL Average
4	5350.020	60.70	31.77	6.05	36.88	61.64	74.00	-12.36	VERTICAL Peak
5	5356.470	49.96	31.78	6.03	36.88	50.89	54.00	-3.11	VERTICAL Average
6	5356.470	62.83	31.78	6.03	36.88	63.76	74.00	-10.24	VERTICAL Peak

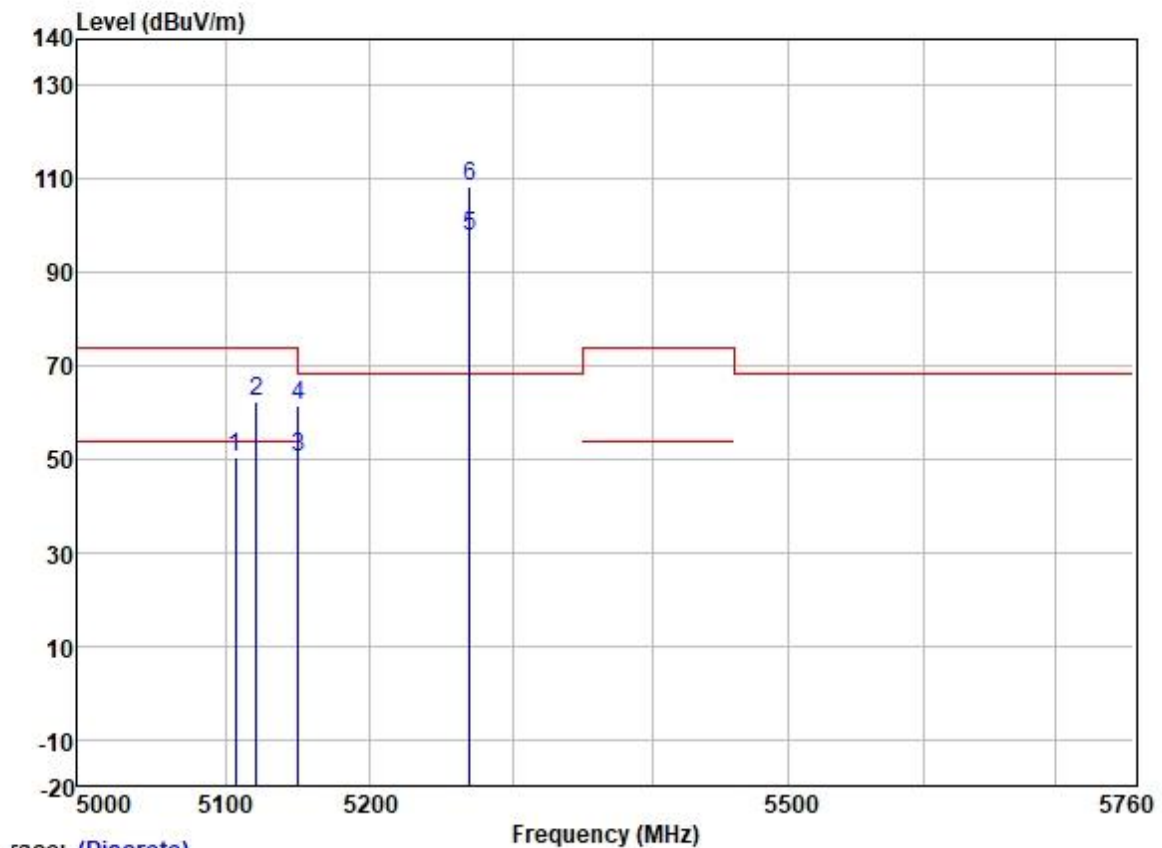
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	5106.282	50.13	31.72	5.65	36.86	50.64	54.00	-3.36	HORIZONTAL Average
2	5110.015	62.24	31.72	5.65	36.86	62.75	74.00	-11.25	HORIZONTAL Peak
3	5149.980	49.48	31.72	5.62	36.86	49.96	54.00	-4.04	HORIZONTAL Average
4	5149.980	60.27	31.72	5.62	36.86	60.75	74.00	-13.25	HORIZONTAL Peak
5	5270.000	96.40	31.75	5.80	36.87	97.08	-----	-----	HORIZONTAL Average
6 *	5270.000	107.12	31.75	5.80	36.87	107.80	68.20	39.60	HORIZONTAL Peak

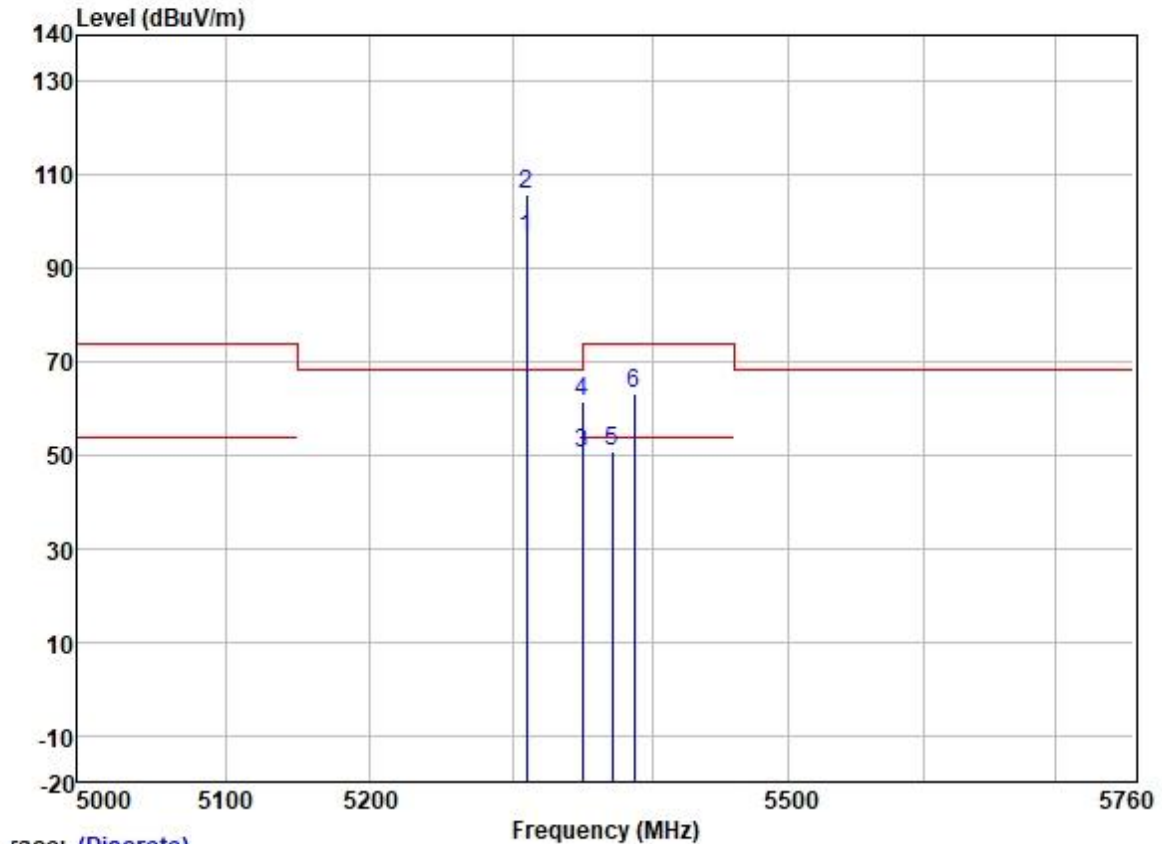
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	5106.674	50.09	31.72	5.65	36.86	50.60	54.00	-3.40	VERTICAL Average
2	5121.034	61.91	31.72	5.64	36.86	62.41	74.00	-11.59	VERTICAL Peak
3	5149.980	49.71	31.72	5.62	36.86	50.19	54.00	-3.81	VERTICAL Average
4	5149.980	60.81	31.72	5.62	36.86	61.29	74.00	-12.71	VERTICAL Peak
5	5270.000	97.23	31.75	5.80	36.87	97.91	-----	-----	VERTICAL Average
6 *	5270.000	107.71	31.75	5.80	36.87	108.39	68.20	40.19	VERTICAL Peak

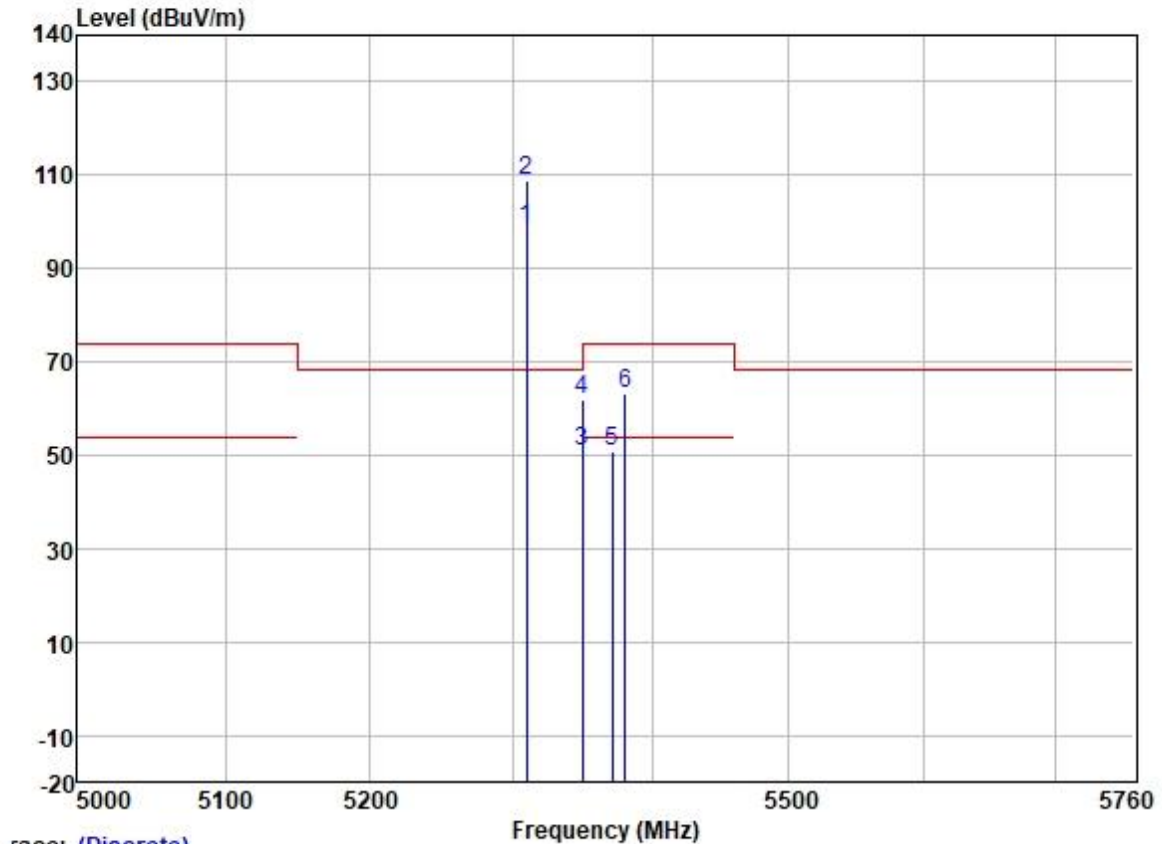
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

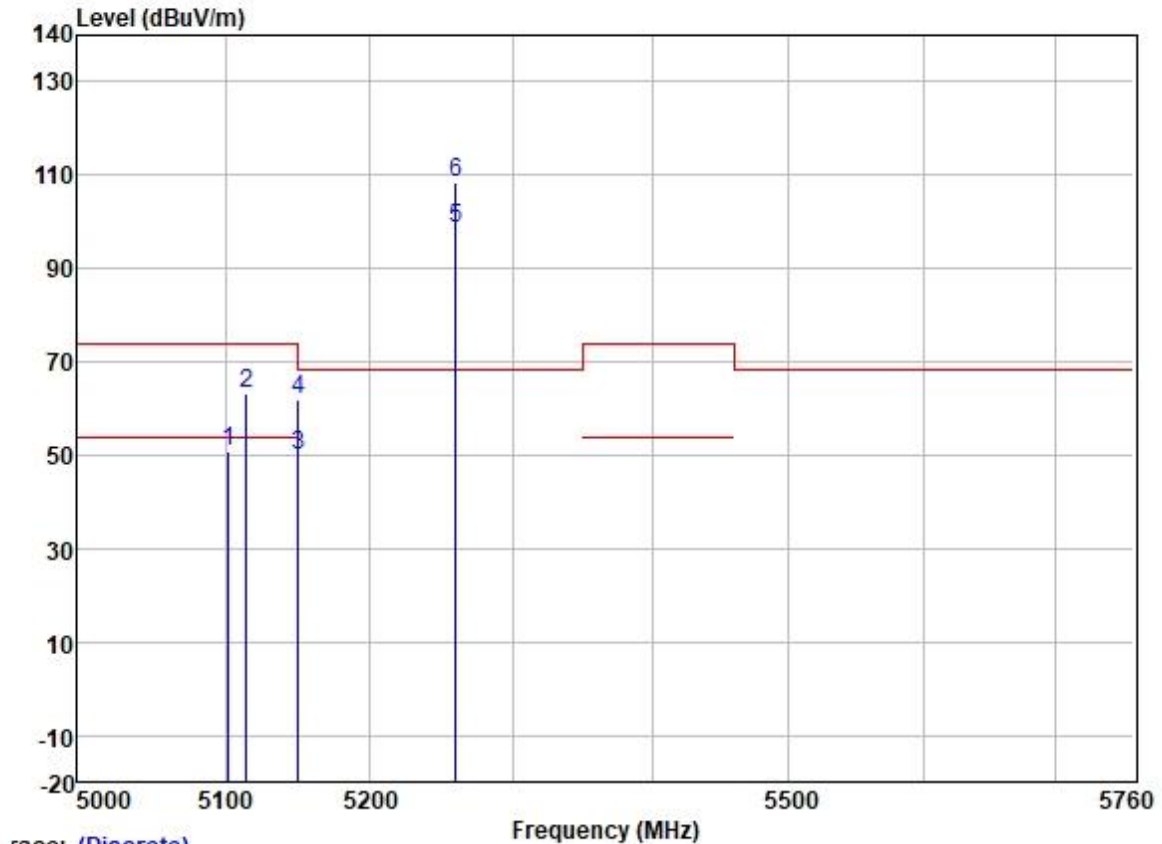
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5310.000	95.63	31.77	6.08	36.87	96.61	-----	-----	HORIZONTAL Average
2 *	5310.000	104.83	31.77	6.08	36.87	105.81	68.20	37.61	HORIZONTAL Peak
3	5350.020	49.53	31.77	6.05	36.88	50.47	54.00	-3.53	HORIZONTAL Average
4	5350.020	60.37	31.77	6.05	36.88	61.31	74.00	-12.69	HORIZONTAL Peak
5	5371.437	50.05	31.78	6.02	36.88	50.97	54.00	-3.03	HORIZONTAL Average
6	5386.910	62.10	31.78	6.00	36.88	63.00	74.00	-11.00	HORIZONTAL Peak

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



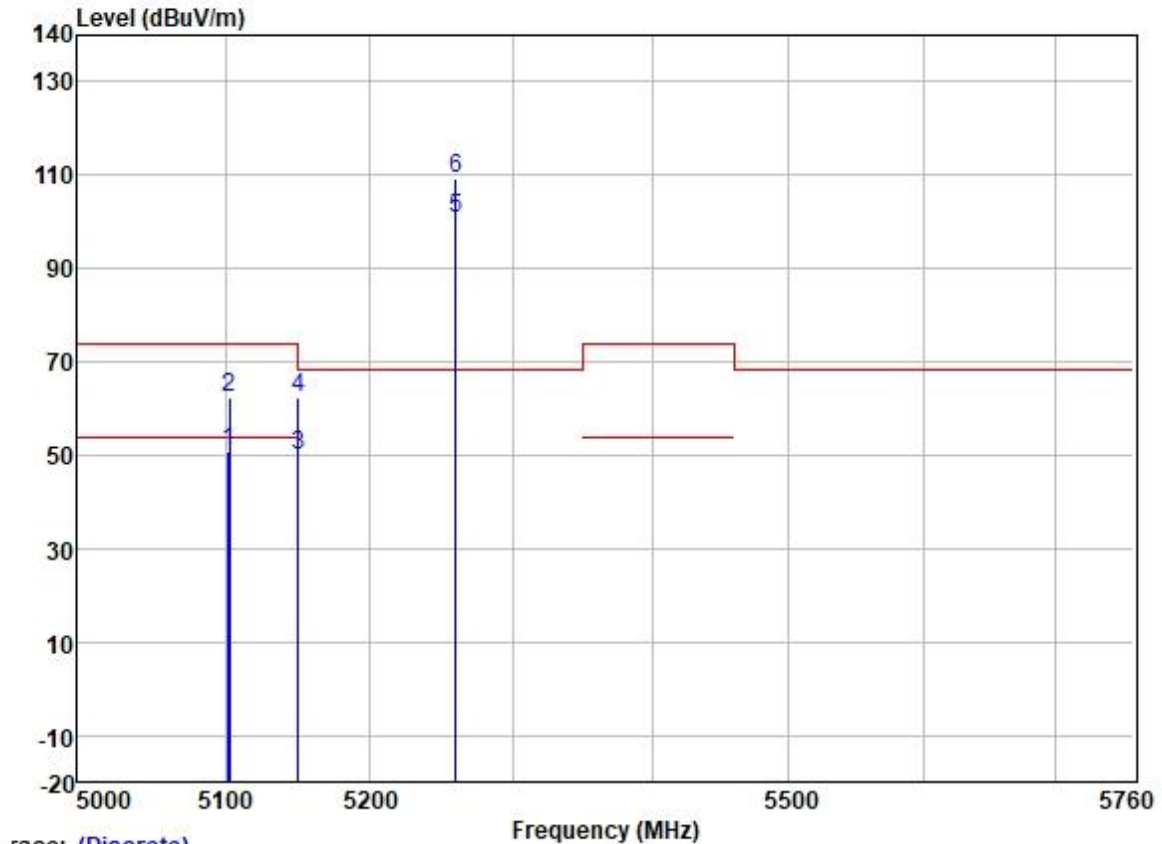
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5310.000	97.72	31.77	6.08	36.87	98.70	-----	-----	VERTICAL	Average
2 *	5310.000	107.72	31.77	6.08	36.87	108.70	68.20	40.50	VERTICAL	Peak
3	5350.020	49.92	31.77	6.05	36.88	50.86	54.00	-3.14	VERTICAL	Average
4	5350.020	61.17	31.77	6.05	36.88	62.11	74.00	-11.89	VERTICAL	Peak
5	5370.954	50.01	31.78	6.02	36.88	50.93	54.00	-3.07	VERTICAL	Average
6	5380.255	62.09	31.78	6.02	36.88	63.01	74.00	-10.99	VERTICAL	Peak

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



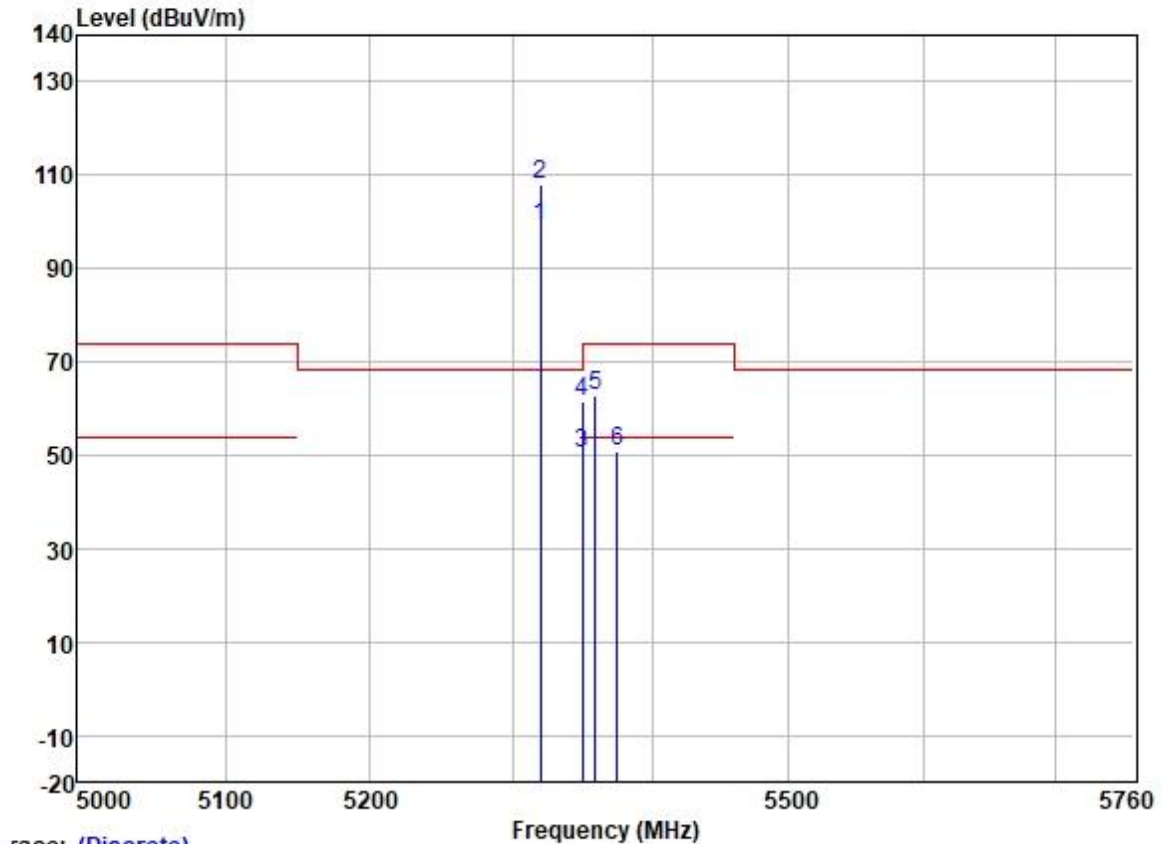
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5102.123	50.13	31.72	5.65	36.86	50.64	54.00	-3.36	HORIZONTAL	Average
2	5114.171	62.87	31.72	5.64	36.86	63.37	74.00	-10.63	HORIZONTAL	Peak
3	5149.980	49.69	31.72	5.62	36.86	50.17	54.00	-3.83	HORIZONTAL	Average
4	5149.980	61.59	31.72	5.62	36.86	62.07	74.00	-11.93	HORIZONTAL	Peak
5	5260.000	98.08	31.75	5.77	36.87	98.73	-----	-----	HORIZONTAL	Average
6 *	5260.000	107.87	31.75	5.77	36.87	108.52	68.20	40.32	HORIZONTAL	Peak

Test Mode: 02; Polarity: Vertical; 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	5101.946	50.15	31.72	5.65	36.86	50.66	54.00	-3.34	VERTICAL
2	5102.831	62.00	31.72	5.65	36.86	62.51	74.00	-11.49	VERTICAL
3	5149.980	49.64	31.72	5.62	36.86	50.12	54.00	-3.88	VERTICAL
4	5149.980	61.66	31.72	5.62	36.86	62.14	74.00	-11.86	VERTICAL
5	5260.000	99.97	31.75	5.77	36.87	100.62	-----	-----	VERTICAL
6 *	5260.000	108.53	31.75	5.77	36.87	109.18	68.20	40.98	VERTICAL

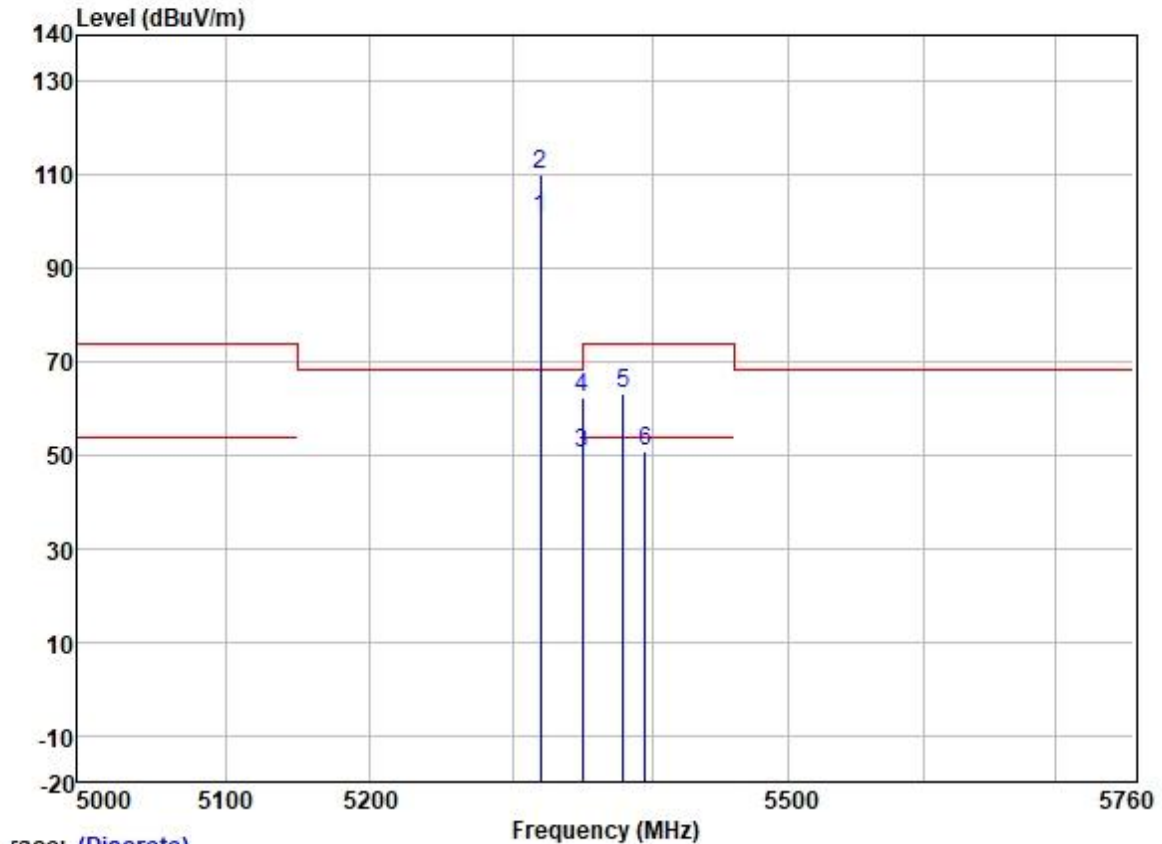
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



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	dB		
1	5320.000	97.91	31.77	6.08	36.88	98.88	-----	-----	HORIZONTAL Average
2 *	5320.000	107.02	31.77	6.08	36.88	107.99	68.20	39.79	HORIZONTAL Peak
3	5350.020	49.55	31.77	6.05	36.88	50.49	54.00	-3.51	HORIZONTAL Average
4	5350.020	60.70	31.77	6.05	36.88	61.64	74.00	-12.36	HORIZONTAL Peak
5	5358.774	61.81	31.78	6.03	36.88	62.74	74.00	-11.26	HORIZONTAL Peak
6	5374.724	49.98	31.78	6.02	36.88	50.90	54.00	-3.10	HORIZONTAL Average

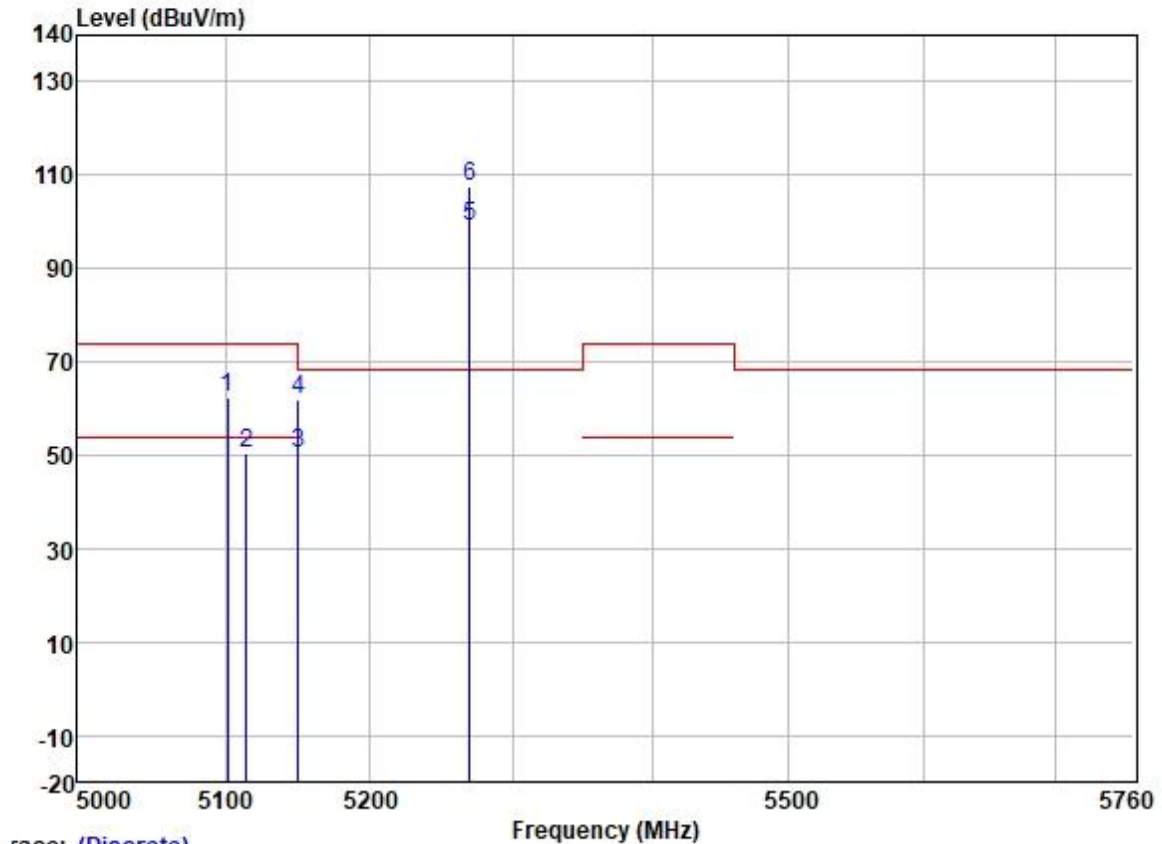
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



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	99.74	31.77	6.08	36.88	100.71	-----	-----	VERTICAL Average
2 *	5320.000	109.00	31.77	6.08	36.88	109.97	68.20	41.77	VERTICAL Peak
3	5350.020	49.65	31.77	6.05	36.88	50.59	54.00	-3.41	VERTICAL Average
4	5350.020	61.29	31.77	6.05	36.88	62.23	74.00	-11.77	VERTICAL Peak
5	5378.945	62.15	31.78	6.02	36.88	63.07	74.00	-10.93	VERTICAL Peak
6	5394.754	49.93	31.78	6.00	36.88	50.83	54.00	-3.17	VERTICAL Average

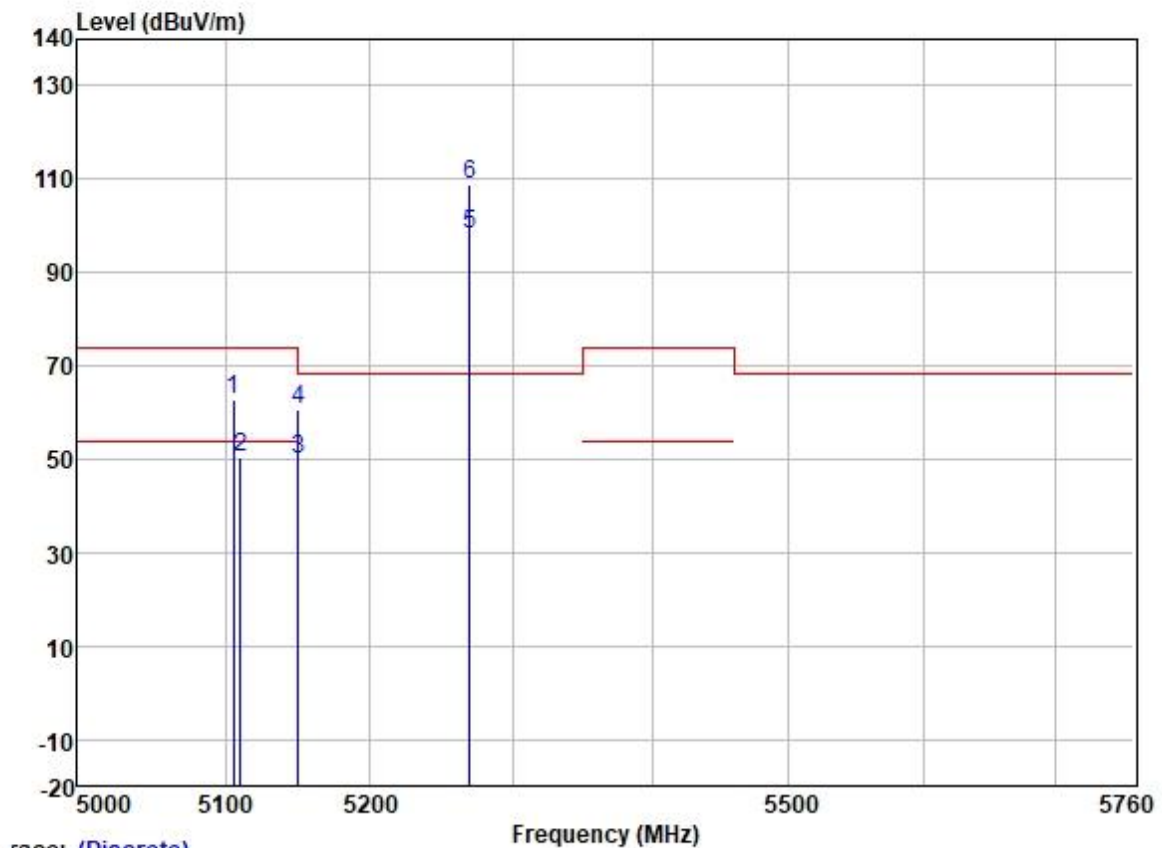
Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



Trace: (Discrete)

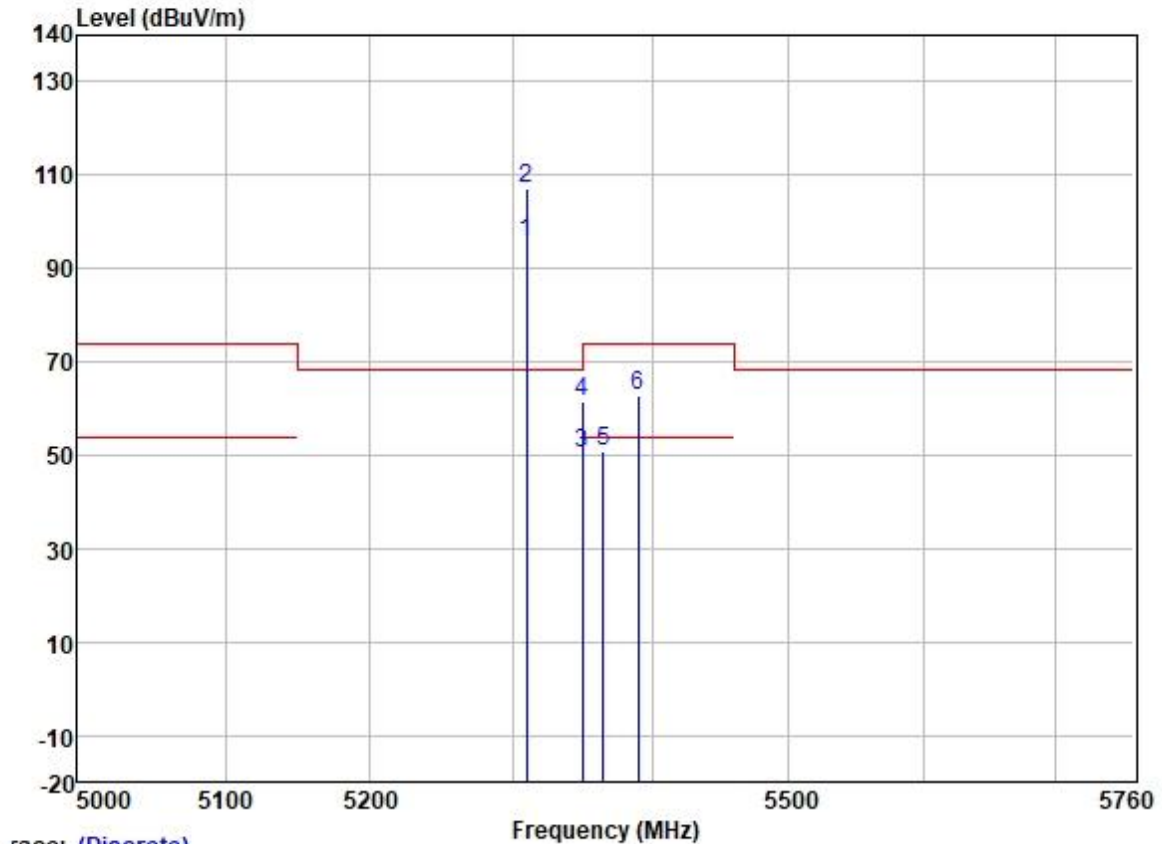
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5101.766	61.93	31.72	5.65	36.86	62.44	74.00	-11.56	HORIZONTAL Peak
2	5114.145	50.05	31.72	5.64	36.86	50.55	54.00	-3.45	HORIZONTAL Average
3	5149.980	49.77	31.72	5.62	36.86	50.25	54.00	-3.75	HORIZONTAL Average
4	5149.980	61.23	31.72	5.62	36.86	61.71	74.00	-12.29	HORIZONTAL Peak
5	5270.000	98.43	31.75	5.80	36.87	99.11	-----	-----	HORIZONTAL Average
6 *	5270.000	106.95	31.75	5.80	36.87	107.63	68.20	39.43	HORIZONTAL Peak

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



Race: (Discrete)	Frequency (MHz)									
	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	5105.692	62.25	31.72	5.65	36.86	62.76	74.00	-11.24	VERTICAL	Peak
2	5110.408	49.97	31.72	5.65	36.86	50.48	54.00	-3.52	VERTICAL	Average
3	5149.980	49.47	31.72	5.62	36.86	49.95	54.00	-4.05	VERTICAL	Average
4	5149.980	60.16	31.72	5.62	36.86	60.64	74.00	-13.36	VERTICAL	Peak
5	5270.000	97.44	31.75	5.80	36.87	98.12	-----	-----	VERTICAL	Average
6 *	5270.000	108.18	31.75	5.80	36.87	108.86	68.20	40.66	VERTICAL	Peak

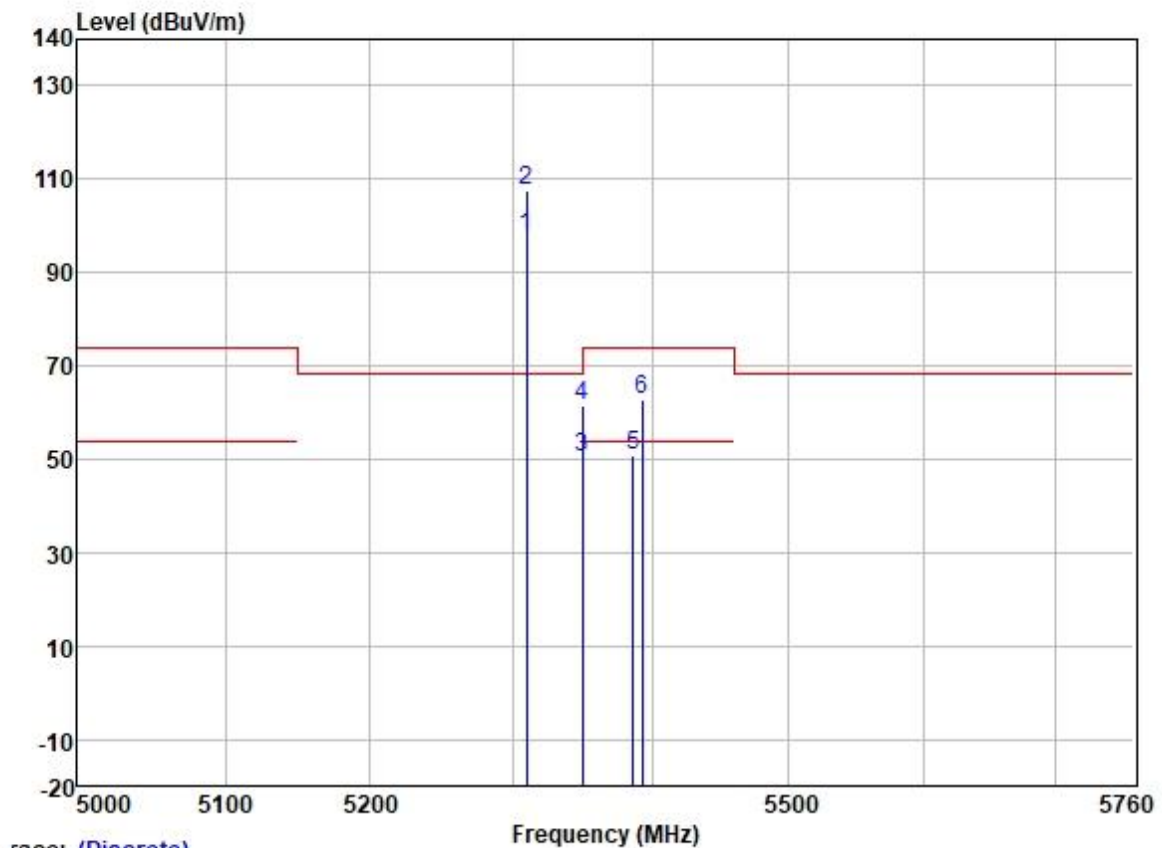
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



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	dB		
1	5310.000	94.75	31.77	6.08	36.87	95.73	-----	HORIZONTAL	Average
2 *	5310.000	106.13	31.77	6.08	36.87	107.11	68.20	38.91	HORIZONTAL Peak
3	5350.020	49.47	31.77	6.05	36.88	50.41	54.00	-3.59	HORIZONTAL Average
4	5350.020	60.39	31.77	6.05	36.88	61.33	74.00	-12.67	HORIZONTAL Peak
5	5364.439	50.03	31.78	6.03	36.88	50.96	54.00	-3.04	HORIZONTAL Average
6	5390.058	61.89	31.78	6.00	36.88	62.79	74.00	-11.21	HORIZONTAL Peak

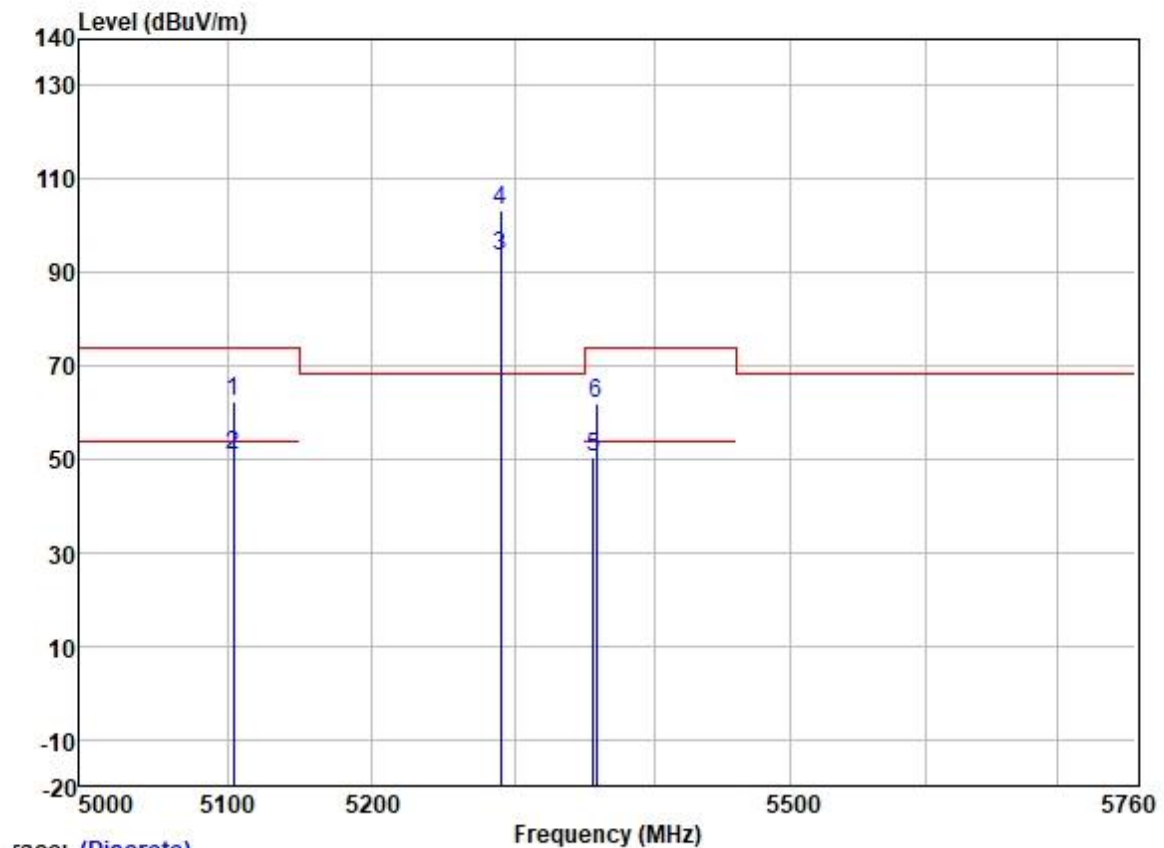
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

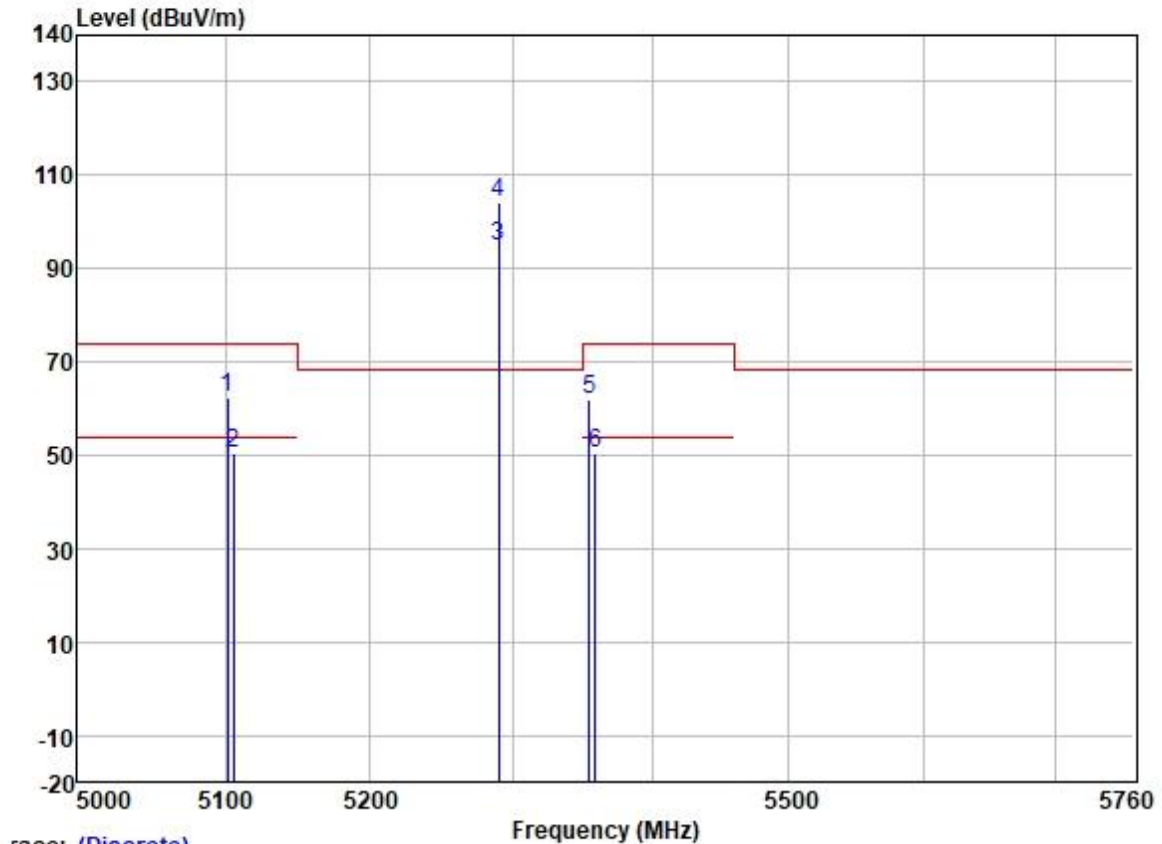
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5310.000	96.58	31.77	6.08	36.87	97.56	-----	VERTICAL	Average
2 *	5310.000	106.78	31.77	6.08	36.87	107.76	68.20	39.56 VERTICAL	Peak
3	5350.020	49.54	31.77	6.05	36.88	50.48	54.00	-3.52 VERTICAL	Average
4	5350.020	60.53	31.77	6.05	36.88	61.47	74.00	-12.53 VERTICAL	Peak
5	5386.305	50.05	31.78	6.00	36.88	50.95	54.00	-3.05 VERTICAL	Average
6	5393.087	61.83	31.78	6.00	36.88	62.73	74.00	-11.27 VERTICAL	Peak

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



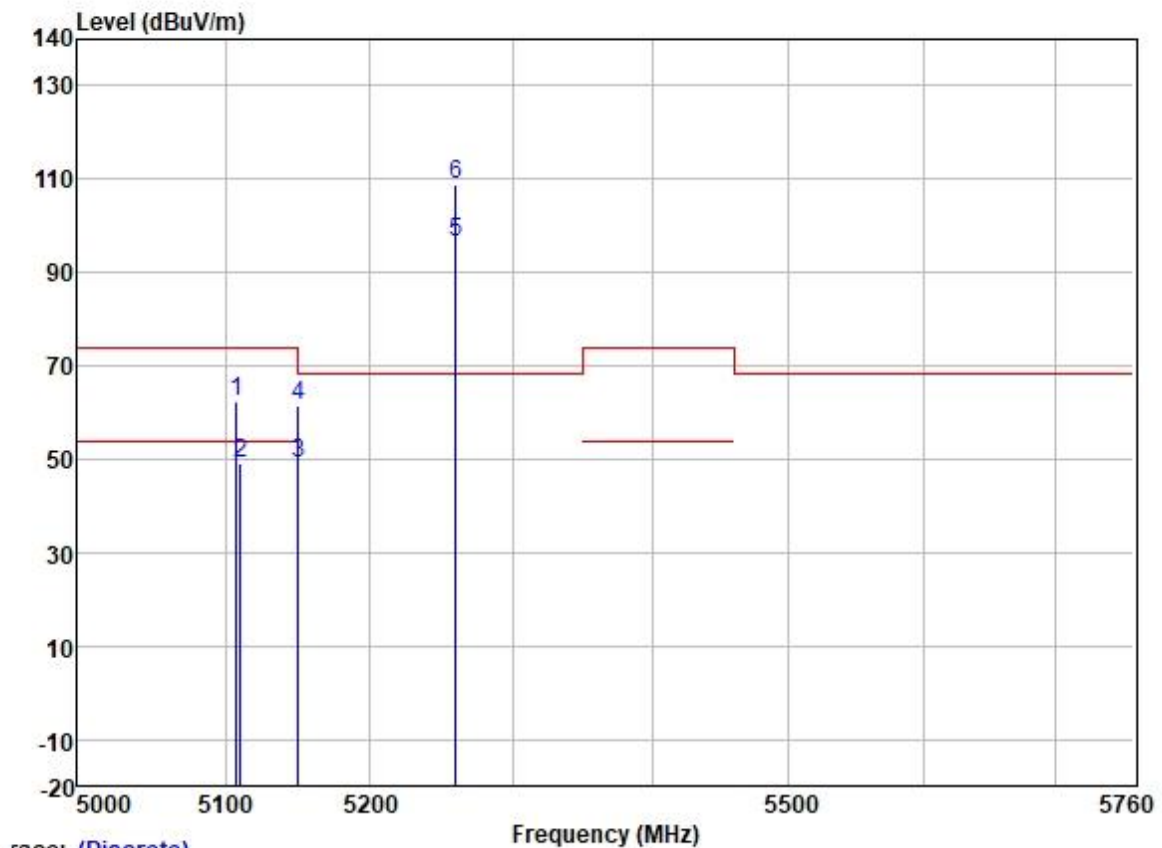
race: (Discrete)	Frequency (MHz)									
		ReadAntenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5104.083	61.71	31.72	5.65	36.86	62.22	74.00	-11.78	HORIZONTAL	Peak
2	5104.375	50.16	31.72	5.65	36.86	50.67	54.00	-3.33	HORIZONTAL	Average
3	5290.000	92.63	31.76	6.00	36.87	93.52	-----	-----	HORIZONTAL	Average
4 *	5290.000	102.38	31.76	6.00	36.87	103.27	68.20	35.07	HORIZONTAL	Peak
5	5356.042	49.62	31.78	6.03	36.88	50.55	54.00	-3.45	HORIZONTAL	Average
6	5358.186	60.88	31.78	6.03	36.88	61.81	74.00	-12.19	HORIZONTAL	Peak

Test Mode: 02; 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	5101.166	61.83	31.72	5.65	36.86	62.34	74.00	-11.66	VERTICAL Peak
2	5105.250	49.91	31.72	5.65	36.86	50.42	54.00	-3.58	VERTICAL Average
3	5290.000	93.77	31.76	6.00	36.87	94.66	-----	-----	VERTICAL Average
4 *	5290.000	103.10	31.76	6.00	36.87	103.99	68.20	35.79	VERTICAL Peak
5	5354.512	61.16	31.78	6.03	36.88	62.09	74.00	-11.91	VERTICAL Peak
6	5358.798	49.65	31.78	6.03	36.88	50.58	54.00	-3.42	VERTICAL Average

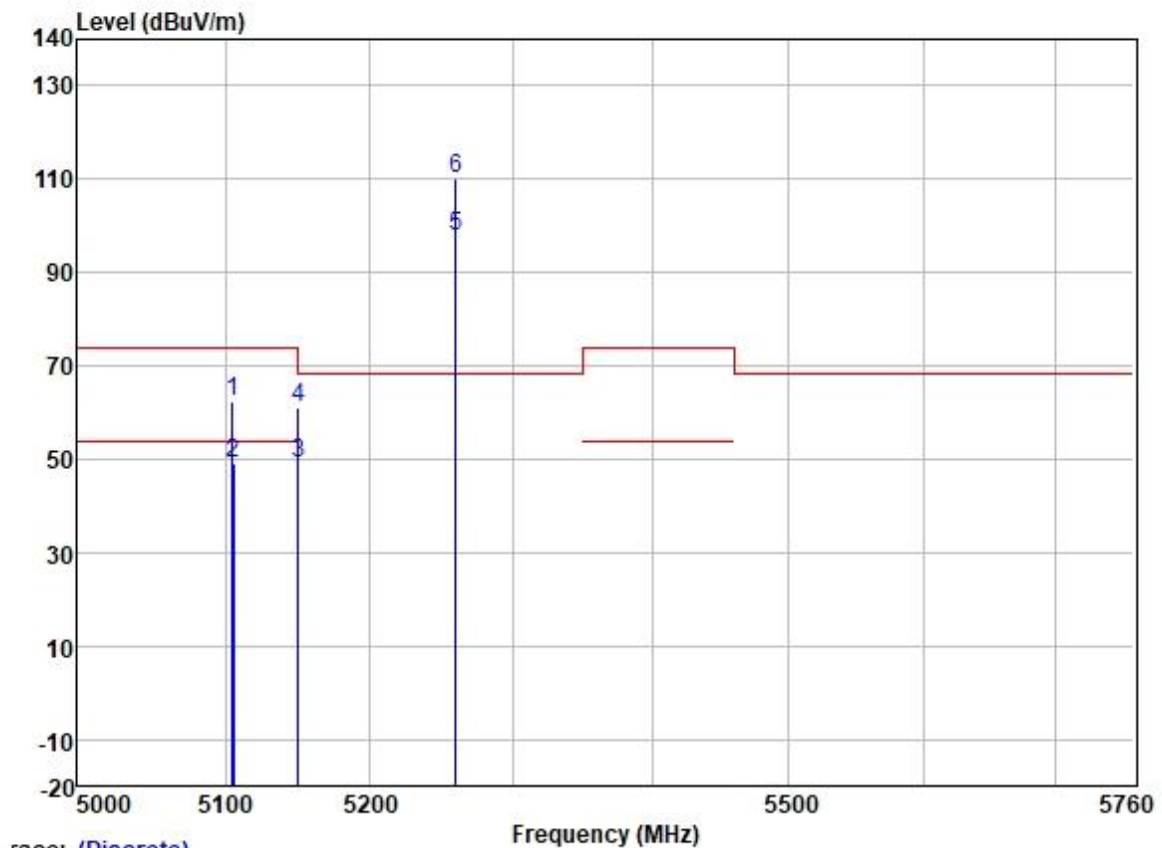
Test Mode: 02; Polarity: Horizontal; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

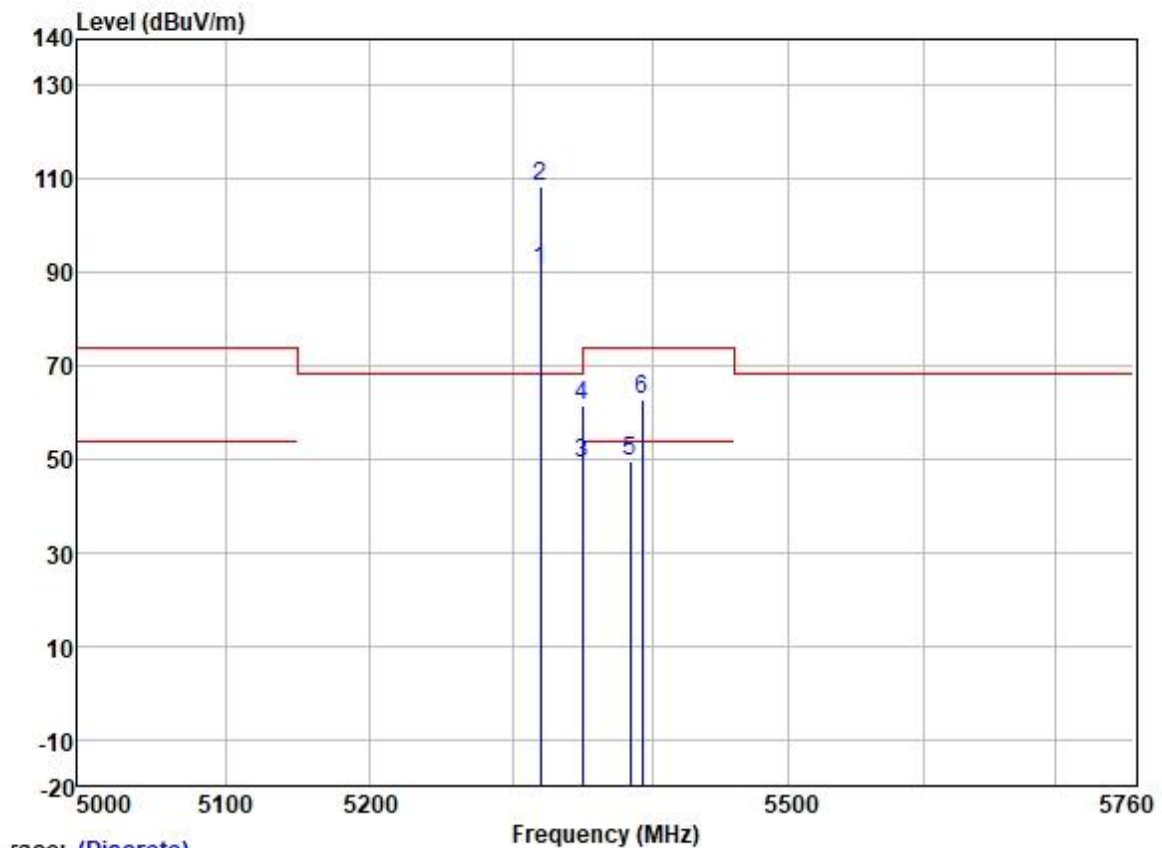
	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	dBuV/m	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5107.435	61.96	31.72	5.65	36.86	62.47	74.00	-11.53	HORIZONTAL	Peak
2	5110.625	48.77	31.72	5.65	36.86	49.28	54.00	-4.72	HORIZONTAL	Average
3	5149.980	48.45	31.72	5.62	36.86	48.93	54.00	-5.07	HORIZONTAL	Average
4	5149.980	61.15	31.72	5.62	36.86	61.63	74.00	-12.37	HORIZONTAL	Peak
5	5260.000	95.71	31.75	5.77	36.87	96.36	-----	-----	HORIZONTAL	Average
6 *	5260.000	108.29	31.75	5.77	36.87	108.94	68.20	40.74	HORIZONTAL	Peak

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



Race: (Discrete)	Frequency (MHz)									
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5104.602	61.87	31.72	5.65	36.86	62.38	74.00	-11.62	VERTICAL	Peak
2	5105.310	48.76	31.72	5.65	36.86	49.27	54.00	-4.73	VERTICAL	Average
3	5149.980	48.47	31.72	5.62	36.86	48.95	54.00	-5.05	VERTICAL	Average
4	5149.980	60.75	31.72	5.62	36.86	61.23	74.00	-12.77	VERTICAL	Peak
5	5260.000	97.28	31.75	5.77	36.87	97.93	-----	-----	VERTICAL	Average
6 *	5260.000	109.31	31.75	5.77	36.87	109.96	68.20	41.76	VERTICAL	Peak

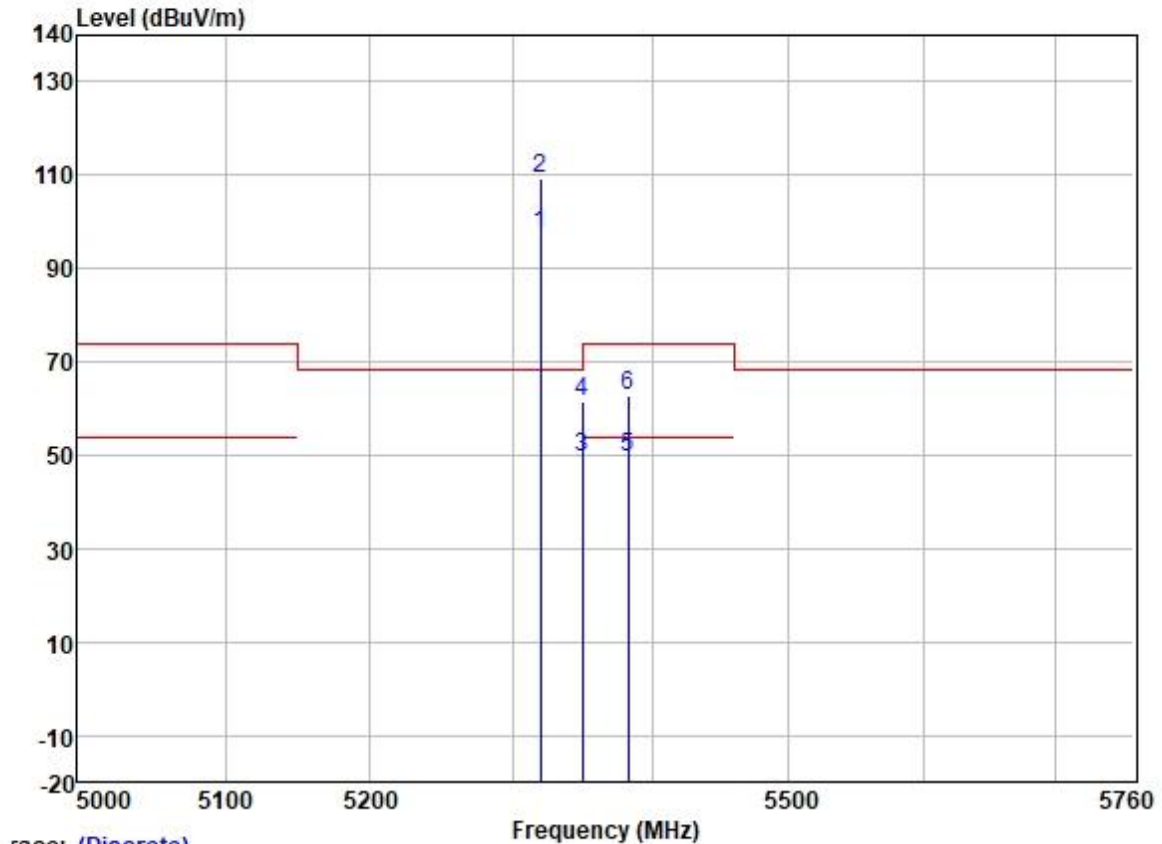
Test Mode: 02; Polarity: Horizontal; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

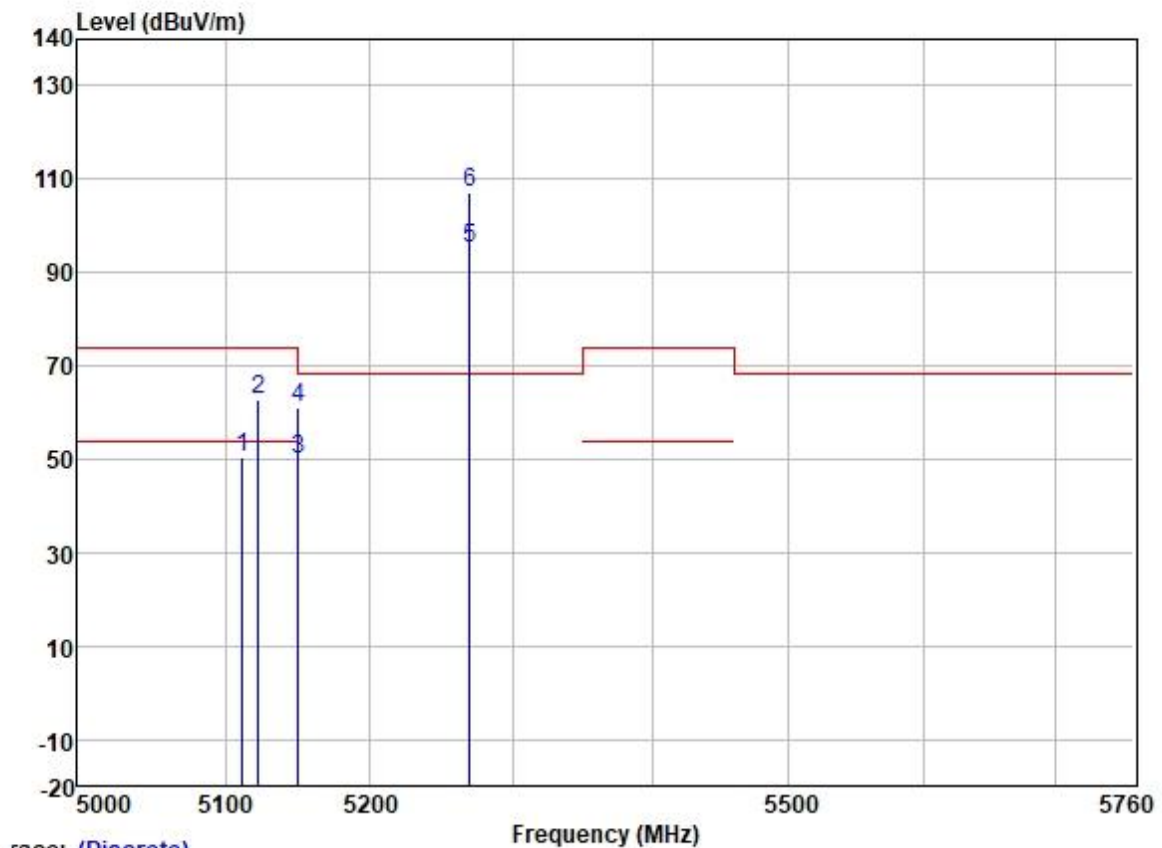
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5320.000	89.62	31.77	6.08	36.88	90.59	-----	-----	HORIZONTAL Average
2 *	5320.000	107.30	31.77	6.08	36.88	108.27	68.20	40.07	HORIZONTAL Peak
3	5350.020	48.37	31.77	6.05	36.88	49.31	54.00	-4.69	HORIZONTAL Average
4	5350.020	60.49	31.77	6.05	36.88	61.43	74.00	-12.57	HORIZONTAL Peak
5	5384.478	48.62	31.78	6.02	36.88	49.54	54.00	-4.46	HORIZONTAL Average
6	5392.536	61.67	31.78	6.00	36.88	62.57	74.00	-11.43	HORIZONTAL Peak

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



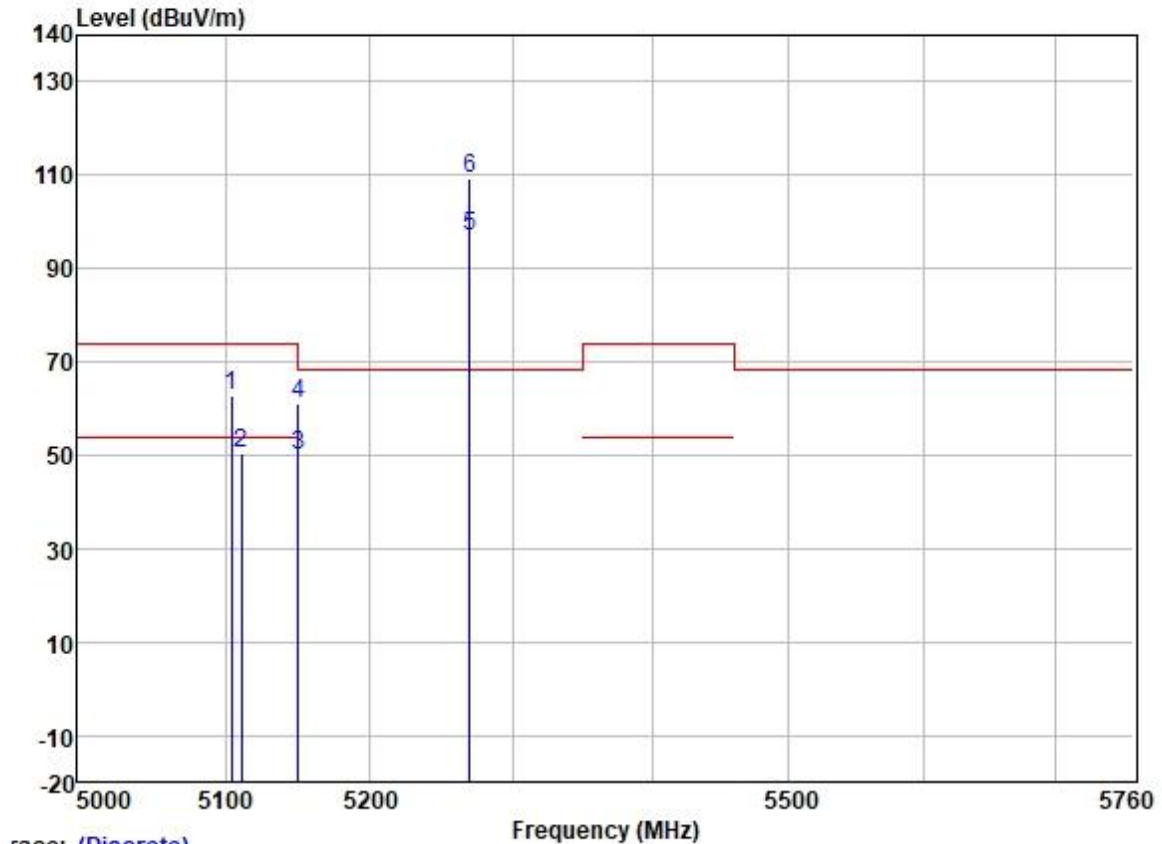
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5320.000	96.49	31.77	6.08	36.88	97.46	-----	-----	VERTICAL Average
2 *	5320.000	108.37	31.77	6.08	36.88	109.34	68.20	41.14	VERTICAL Peak
3	5350.020	48.49	31.77	6.05	36.88	49.43	54.00	-4.57	VERTICAL Average
4	5350.020	60.57	31.77	6.05	36.88	61.51	74.00	-12.49	VERTICAL Peak
5	5382.566	48.60	31.78	6.02	36.88	49.52	54.00	-4.48	VERTICAL Average
6	5382.566	61.90	31.78	6.02	36.88	62.82	74.00	-11.18	VERTICAL Peak

Test Mode: 02; Polarity: Horizontal; 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	5111.588	49.93	31.72	5.65	36.86	50.44	54.00	-3.56	HORIZONTAL Average
2	5122.610	62.30	31.72	5.64	36.86	62.80	74.00	-11.20	HORIZONTAL Peak
3	5149.980	49.55	31.72	5.62	36.86	50.03	54.00	-3.97	HORIZONTAL Average
4	5149.980	60.64	31.72	5.62	36.86	61.12	74.00	-12.88	HORIZONTAL Peak
5	5270.000	94.72	31.75	5.80	36.87	95.40	-----	-----	HORIZONTAL Average
6 *	5270.000	106.57	31.75	5.80	36.87	107.25	68.20	39.05	HORIZONTAL Peak

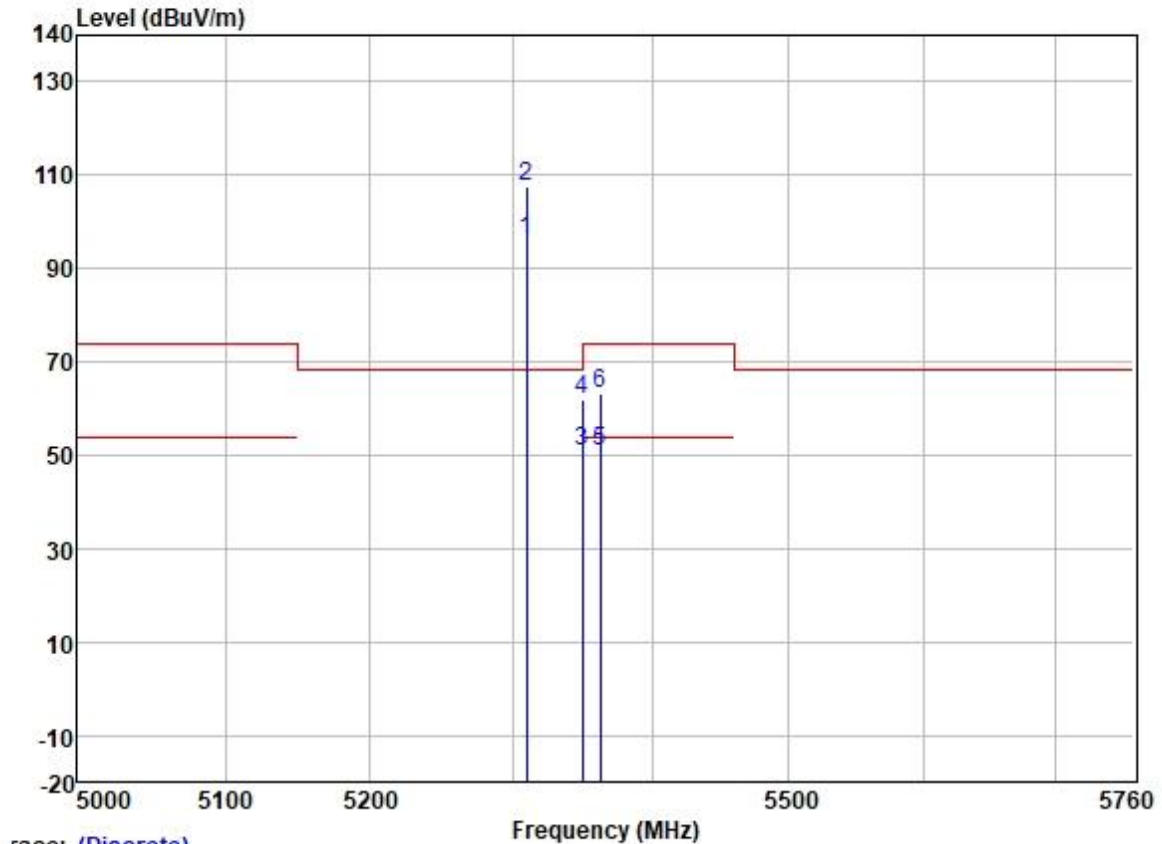
Test Mode: 02; Polarity: Vertical; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

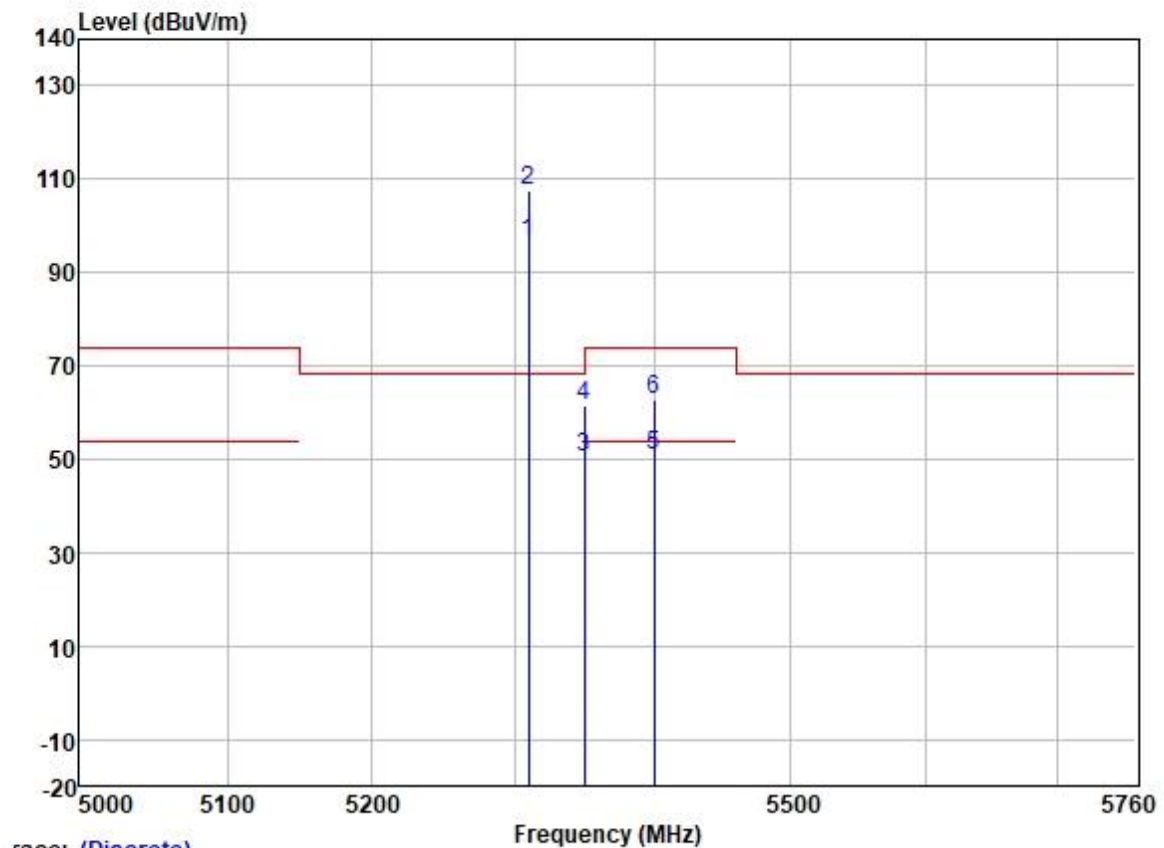
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5104.122	62.44	31.72	5.65	36.86	62.95	74.00	-11.05	VERTICAL
2	5110.998	50.04	31.72	5.65	36.86	50.55	54.00	-3.45	VERTICAL
3	5149.980	49.60	31.72	5.62	36.86	50.08	54.00	-3.92	VERTICAL
4	5149.980	60.59	31.72	5.62	36.86	61.07	74.00	-12.93	VERTICAL
5	5270.000	96.25	31.75	5.80	36.87	96.93	-----	-----	VERTICAL
6 *	5270.000	108.43	31.75	5.80	36.87	109.11	68.20	40.91	VERTICAL

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



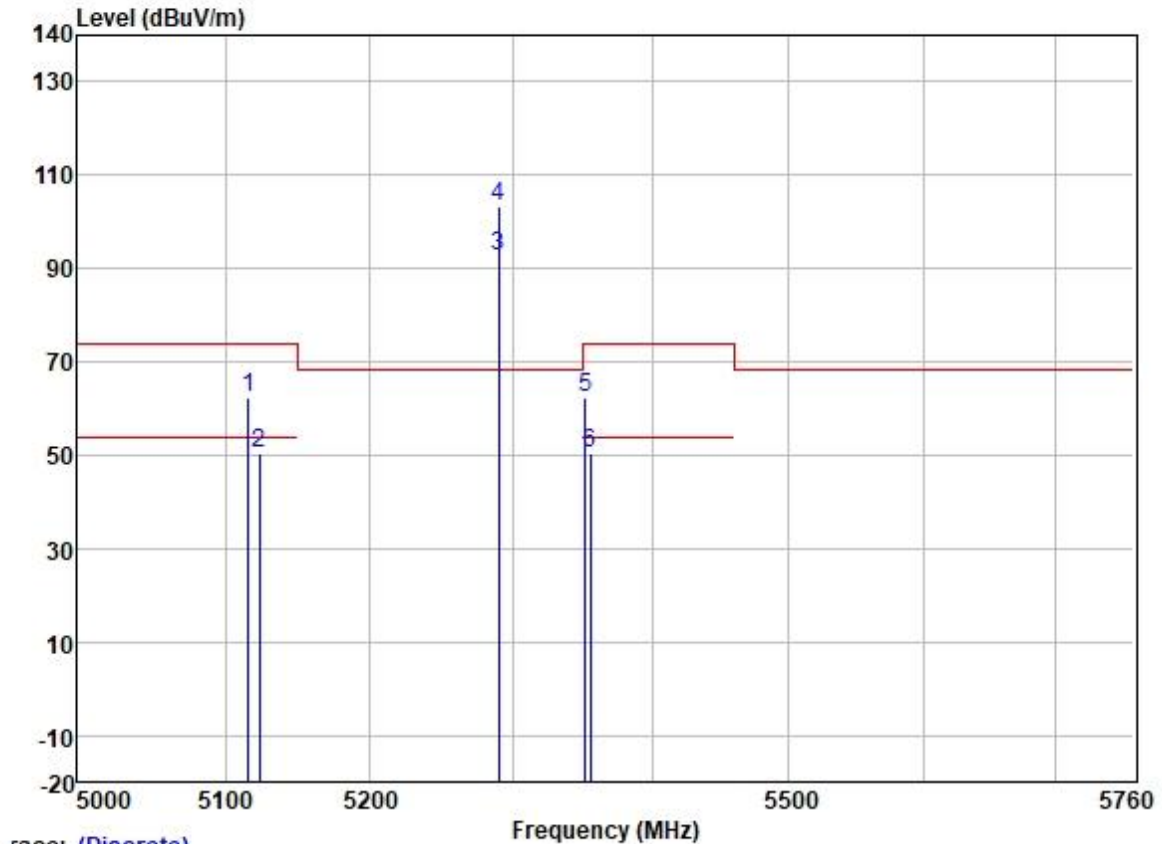
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5310.000	94.97	31.77	6.08	36.87	95.95	-----	-----	HORIZONTAL Average
2 *	5310.000	106.51	31.77	6.08	36.87	107.49	68.20	39.29	HORIZONTAL Peak
3	5350.020	50.03	31.77	6.05	36.88	50.97	54.00	-3.03	HORIZONTAL Average
4	5350.020	61.05	31.77	6.05	36.88	61.99	74.00	-12.01	HORIZONTAL Peak
5	5362.632	49.90	31.78	6.03	36.88	50.83	54.00	-3.17	HORIZONTAL Average
6	5362.632	62.26	31.78	6.03	36.88	63.19	74.00	-10.81	HORIZONTAL Peak

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



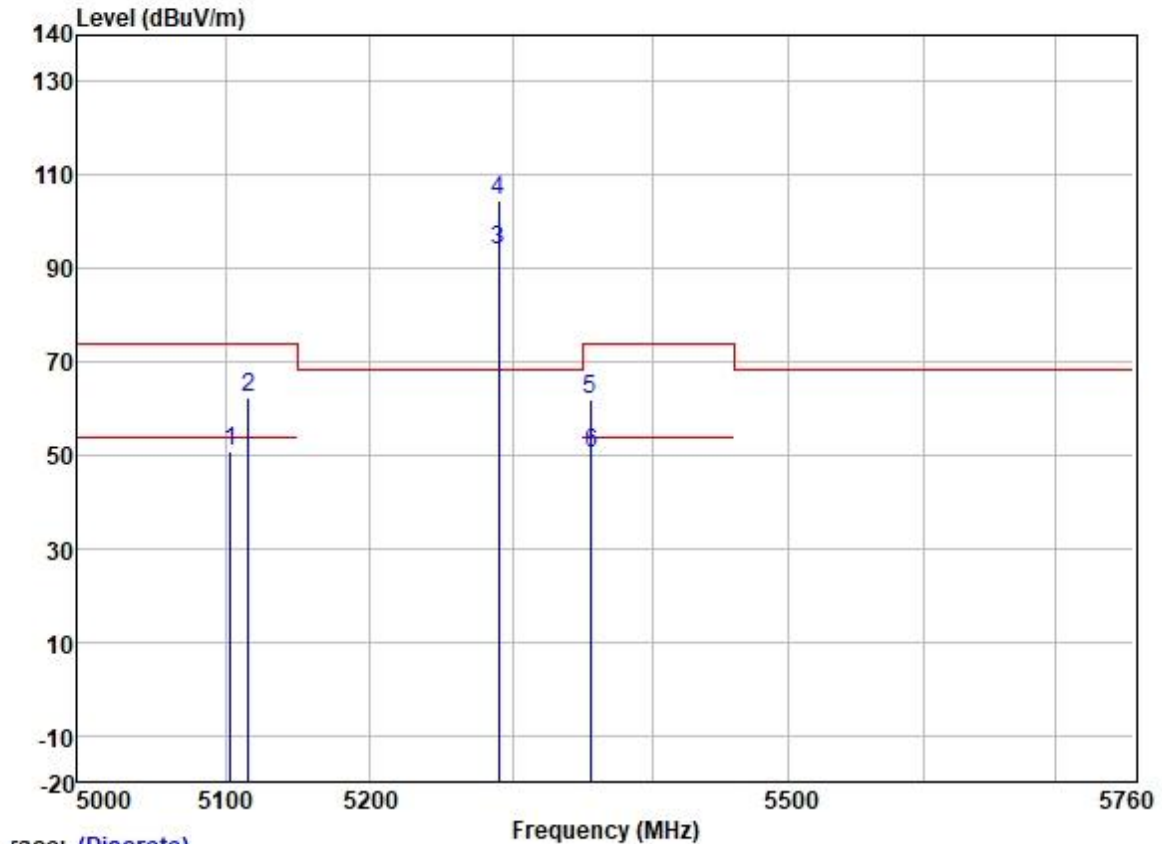
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5310.000	95.67	31.77	6.08	36.87	96.65	-----	-----	VERTICAL Average
2 *	5310.000	106.66	31.77	6.08	36.87	107.64	68.20	39.44	VERTICAL Peak
3	5350.020	49.41	31.77	6.05	36.88	50.35	54.00	-3.65	VERTICAL Average
4	5350.020	60.51	31.77	6.05	36.88	61.45	74.00	-12.55	VERTICAL Peak
5	5399.878	49.91	31.78	6.00	36.88	50.81	54.00	-3.19	VERTICAL Average
6	5399.878	61.74	31.78	6.00	36.88	62.64	74.00	-11.36	VERTICAL Peak

Test Mode: 02; Polarity: Horizontal; Bandwidth:80MHz; Channel:middle



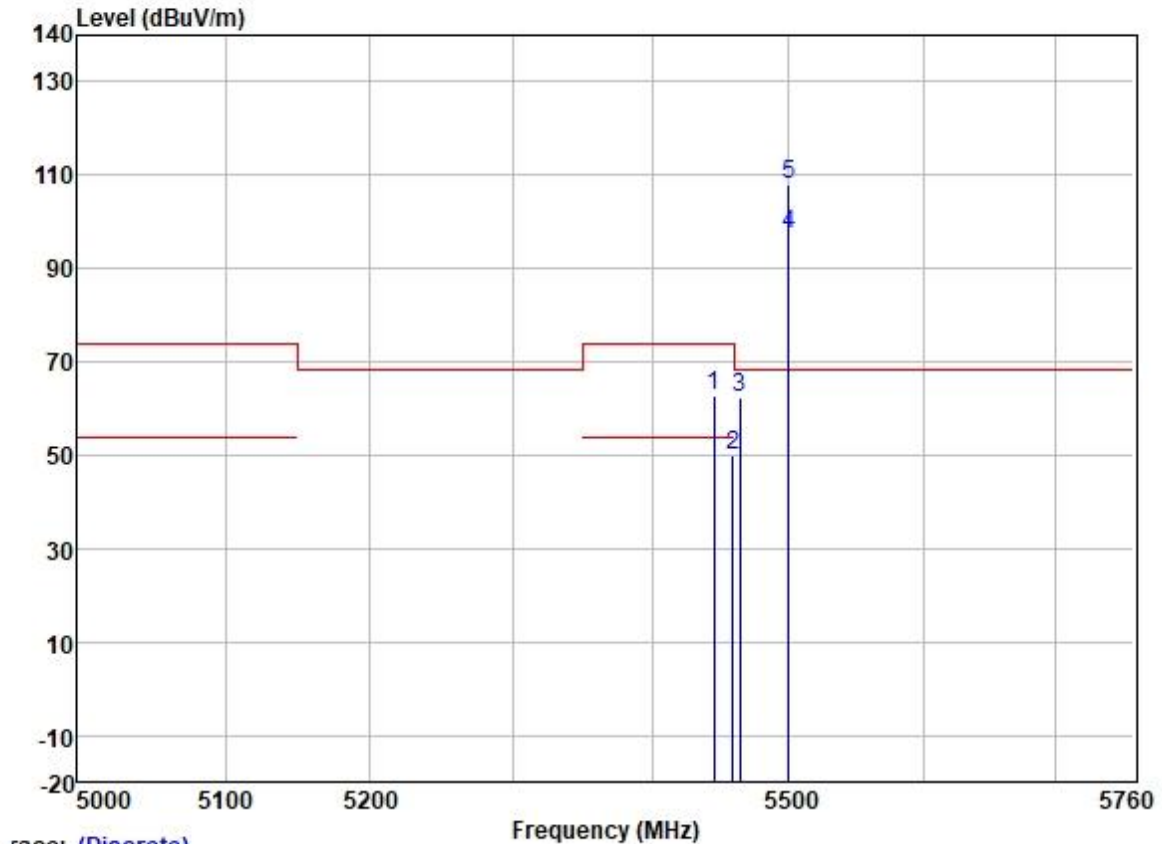
race: (Discrete)		Frequency (MHz)							
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5115.473	61.78	31.72	5.64	36.86	62.28	74.00	-11.72	HORIZONTAL Peak
2	5123.374	49.89	31.72	5.64	36.86	50.39	54.00	-3.61	HORIZONTAL Average
3	5290.000	91.87	31.76	6.00	36.87	92.76	-----	-----	HORIZONTAL Average
4 *	5290.000	102.33	31.76	6.00	36.87	103.22	68.20	35.02	HORIZONTAL Peak
5	5352.064	61.31	31.77	6.05	36.88	62.25	74.00	-11.75	HORIZONTAL Peak
6	5355.736	49.60	31.78	6.03	36.88	50.53	54.00	-3.47	HORIZONTAL Average

Test Mode: 02; Polarity: Vertical; 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	5103.500	50.22	31.72	5.65	36.86	50.73	54.00	-3.27	VERTICAL
2	5115.766	61.91	31.72	5.64	36.86	62.41	74.00	-11.59	VERTICAL
3	5290.000	93.08	31.76	6.00	36.87	93.97	-----	-----	VERTICAL
4 *	5290.000	103.83	31.76	6.00	36.87	104.72	68.20	36.52	VERTICAL
5	5355.736	61.07	31.78	6.03	36.88	62.00	74.00	-12.00	VERTICAL
6	5356.348	49.66	31.78	6.03	36.88	50.59	54.00	-3.41	VERTICAL

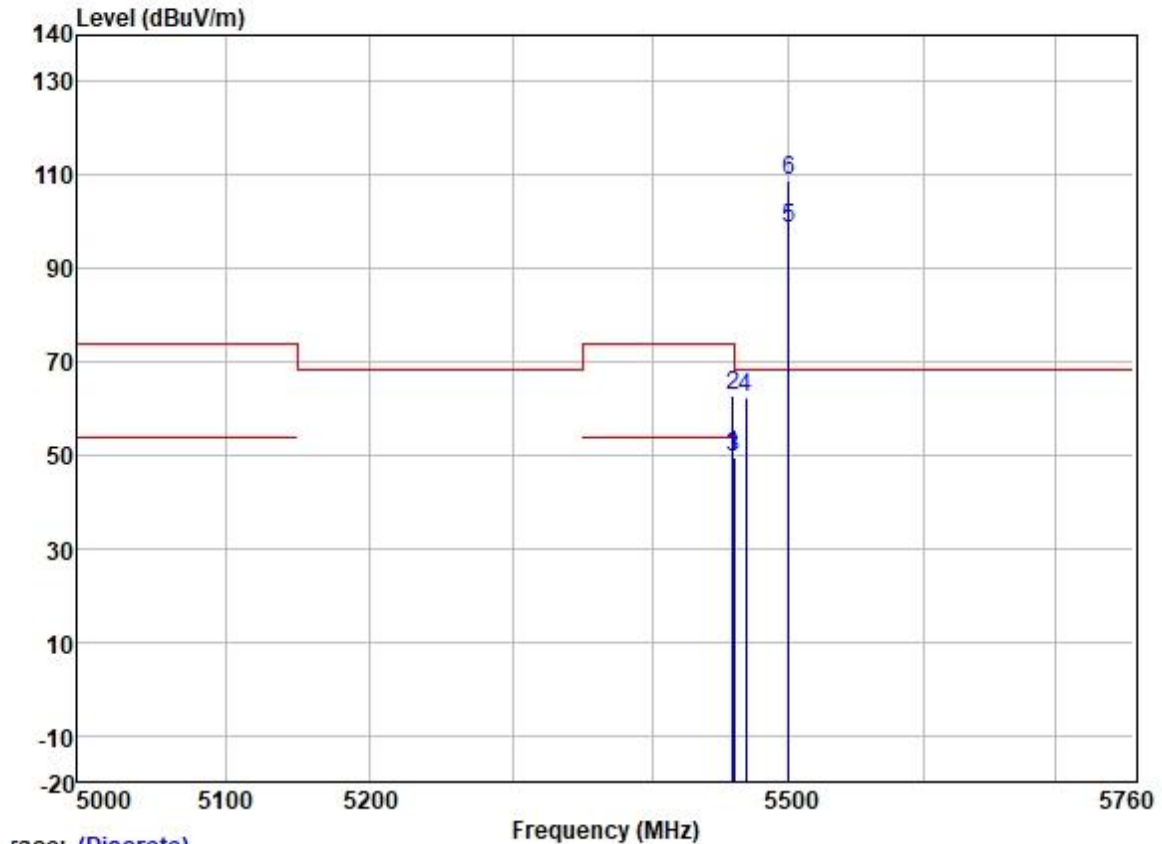
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5445.050	61.77	31.79	6.20	36.88	62.88	74.00	-11.12	HORIZONTAL	Peak
2	5458.351	48.90	31.79	6.26	36.88	50.07	54.00	-3.93	HORIZONTAL	Average
3	5463.512	61.16	31.79	6.26	36.88	62.33	68.20	-5.87	HORIZONTAL	Peak
4	5500.000	96.20	31.80	6.40	36.88	97.52	-----	-----	HORIZONTAL	Average
5 *	5500.000	106.75	31.80	6.40	36.88	108.07	68.20	39.87	HORIZONTAL	Peak

Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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		5458.831	48.86	31.79	6.26	36.88	50.03	54.00	-3.97	VERTICAL	Average
2		5458.831	61.59	31.79	6.26	36.88	62.76	74.00	-11.24	VERTICAL	Peak
3		5459.550	48.58	31.79	6.26	36.88	49.75	54.00	-4.25	VERTICAL	Average
4		5467.957	61.31	31.80	6.31	36.88	62.54	68.20	-5.66	VERTICAL	Peak
5		5500.000	97.14	31.80	6.40	36.88	98.46	-----	-----	VERTICAL	Average
6	*	5500.000	107.39	31.80	6.40	36.88	108.71	68.20	40.51	VERTICAL	Peak